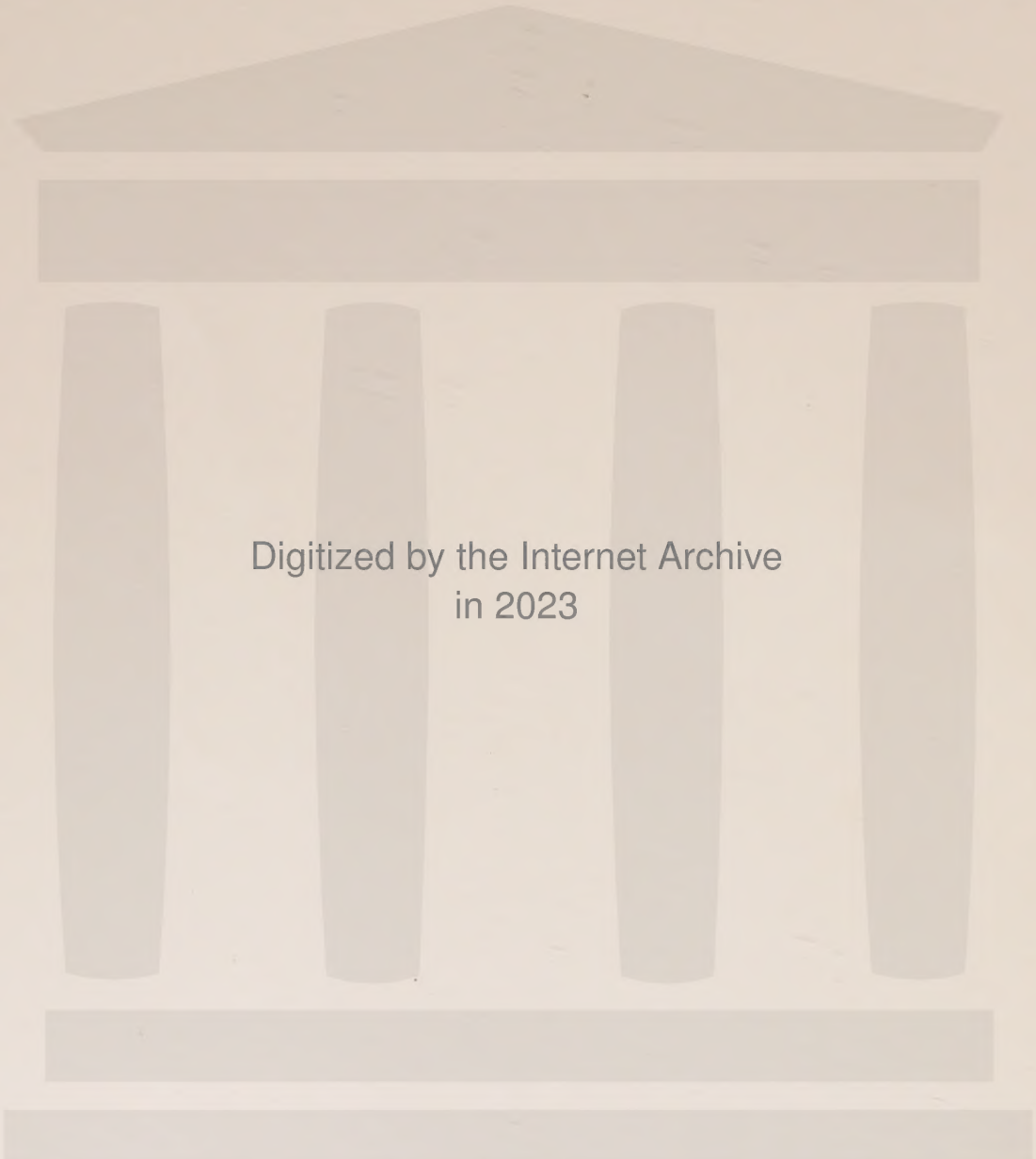

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Review of METAL LITERATURE

Volume 24E • 1967 • Indexes

Prepared by the Staff of Metals Information
American Society for Metals • Metals Park, Ohio

Marjorie R. Hyslop, *Editor*
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PREFACE TO VOLUME 24E

The ASM *Review of Metal Literature* contains abstracts of the world's scientific, engineering and technical literature concerned with the production, properties, fabrication and applications of metals, their alloys and compounds. This annual volume is issued in five parts, each separately bound. Parts A through D contain the abstracts included in subject categories 01 through 06 (Part A), 07 through 12 (Part B), 13 through 16 (Part C), and 17 through 20 (Part D). Detailed subject coverage of these categories is given in the Table of Contents for each book.

Part E (this book) contains subject index, author index, addresses of publications, and translation sources.

The subject index is computer-generated and based on thesaurus control. Each index entry is accompanied by the complete title of the reference rather than the serial number alone. Thus, searching of the index will immediately tell the searcher whether or not the abstract is likely to be of interest to him.

For most effective use of the index, its introduction should be carefully read. It includes an explanation of the abstract numbering system which tells how to locate the abstracts in Parts A, B, C and D.

The ASM Photocopy Service furnishes copies of complete articles on demand. Exceptions—material not available from the Photocopy Service—are government, classified, or commercial translators' work, articles from journals forbidden to be reproduced because of copyright restrictions, and those abstracts identified by the symbol RZ. The list of addresses of publications is included so that copies can be requested directly from the publisher when photocopies are not available.

A list of translation sources is also included. These sources are noted in the abstract books, Parts A through D, by the word "translation" plus appropriate code symbols immediately following the serial number of the abstract. Individual articles or journals should be ordered from these sources as identified by these code numbers.

The subject indexing was performed by the Metals Information Staff under the direction of Edward A. Moss. Assisting were: John Adams, M. Jean Caulkins, John Cory, Lawrence J. Irwin, Robert Nasal, John C. Rowe, G. B. Singh, Alexander Stowba, and Arthur J. Sullivan, Editorial Assistants, supplemented by contributing abstracters.

The list of publications was compiled by Barbara Ladd, ASM Librarian.

Marjorie R. Hyslop
Editor

TABLE OF CONTENTS

VOLUME 24A

Section 01. GENERAL METALLURGY 1A
Reviews and other documents that deal with a wide variety of processes, properties, or applications.

Section 02. ORE PREPARATION 55A
Concentration (beneficiation); roasting and calcining; sintering processes.

Section 03. NONFERROUS EXTRACTION AND REFINING 119A
Chemical extraction; smelting; distillation; electrolytic processes, nonferrous vacuum reduction and refining; reduction by metals and gases; precipitation; separation of metals; zone melting; nonferrous melting and casting.

Section 04. FERROUS EXTRACTION AND REFINING 219A
Blast furnace practice; openhearth practice; converter processes; electric arc and induction processes; oxygen furnace processes; multistage processes; special processes; ingot casting; physical chemistry of iron and steelmaking.

Section 05. NONMETALLIC PROCESSING 421A
Production and fabrication processes for fuels, refractories, graphite and other nonmetallics commonly associated with metal processes; also includes processing of metallic and nonmetallic compounds such as oxides, nitrides, borides, etc.

Section 06. FOUNDRY 445A
Melting techniques; sand casting; permanent mold casting; die casting; centrifugal casting; precision investment casting; pouring; metallurgical control; solidification and fluidity; fluxing and degassing.

VOLUME 24B

Section 07. PRIMARY MECHANICAL WORKING 529B
Preparation for working; forging; rolling; extrusion of rod, shapes and tube; swaging; tubemaking; drawing of rod and shapes; wire drawing; finishing operations.

Section 08. SECONDARY MECHANICAL WORKING—FORMING AND MACHINING . 629B
Presswork in general; shearing, stamping; drawing; impact and cold extrusion; bending; stretch forming; heading; roll forming; ausforming; high-energy-rate forming; thread rolling; spinning; shear forming; die sinking; machining; grinding; flame and arc cutting; finish forming; machinability.

Section 09. POWDER PROCESSING 731B
Powder production; powder properties; mixing and blending; molding or compacting; sintering, impregnation; infiltration; fiber metallurgy.

Section 10. HEAT TREATING 811B
Homogenization; austenitizing; annealing; normalizing; quenching; precipitation hardening; case hardening; carburizing; tempering; stress relief and stress control; induction, flame, fused-bath and controlled atmosphere methods; carbon restoration; decarburization; hardenability.

Section 11. JOINING 899B
All welding processes; weldability; bonding; soldering; brazing; adhesive joining; mechanical assembly.

Section 12. CLEANING, COATING AND FINISHING 1061B
Mechanical, chemical and electrochemical cleaning and polishing; chemical conversion coating; diffusion coating; dip coating; electroplating; electroforming; anodic coating; cathodic oxide coating; cladding or bonding; spraying; coating by weld deposition; coating by vapor deposition; painting and organic coating; enameling.

TABLE OF CONTENTS

VOLUME 24C

Section 13. METALLOGRAPHY, CONSTITUTION AND PRIMARY STRUCTURES . . . 1197C
Specimen preparation; microscopy; other metallographic techniques; phase diagrams; crystal structure; microstructure; macrostructure.

Section 14. TRANSFORMATIONS AND RESULTING STRUCTURES 1375C
Diffusion; nucleation; crystal and grain growth; recovery, recrystallization; allotropic transformations; precipitation; strain aging; austenite formation and decomposition; other eutectoid reactions; superlattice formation (order-disorder); other solid-state reactions; liquid-solid reactions; liquid-liquid reactions; gas-solid reactions; gas-liquid reactions.

Section 15. PHYSICAL PROPERTIES AND THEIR MEASUREMENT 1649C
Mass and volume; thermal properties; thermodynamics and kinetics; electrical and electrochemical properties; optical properties; magnetism and magnetic properties.

Section 16. ATOMIC AND NUCLEAR PHYSICS 1867C
Atomic and molecular structure; quantum theory; energy levels; band theory; zone theory; radioactivity and nuclear reactions; electronic devices (such as diodes, rectifiers, transistors, and optical, photoelectric, paramagnetic, ferrite, superconductive and semiconductive devices) and their inherent properties; irradiation and space environmental effects.

VOLUME 24D

Section 17. MECHANICAL PROPERTIES AND TESTS 2001D
Elastic and plastic properties; plastic deformation; stresses; fracture; tensile properties and tests; compression; torsion; shear; creep; bend; fatigue; dampening; wear.

Section 18. CORROSION 2425D
Mechanism of corrosion; corrosive effects; stress-corrosion; corrosion fatigue; intergranular pitting and graphitic corrosion; cavitation; oxidation; tarnishing; atmospheric corrosion; corrosion by waters; by chemicals; by soils; preventive measures; tests.

Section 19. INSPECTION AND CONTROL 2567D
Statistical analysis and control; flaw detection; size, thickness and mass measurement; surface roughness; temperature measurement and control; process control; service testing (life testing); standard practice and specifications.

Section 20. METAL PRODUCTS AND PARTS 2651D
Applications of metals for automotive, marine, railroad, aircraft and spacecraft; nuclear reactors; structures; process equipment; instruments; tools and dies; hardware; consumer goods.

VOLUME 24E

INDEXES

Address List of Publications 1E
Translated Journal Sources 16E
Journal Title Abbreviations 17E
How to Use Your Index 25E
Subject Index S1E (27E)
Author Index A1E (1269E)

ADDRESSES OF PUBLICATIONS

A list of the primary journals from which abstracts are taken.

A photocopy form for ordering copies of most articles is printed in each monthly issue of Review of Metal Literature (see contents for page numbers).

Abstracts marked RZ in the citation may be requested by writing to: Referativnyi Zhurnal — Metallurgiya, Proizvodstvenno-Izd., Kominat VINITI, Baltiiskaya ul 14, Moscow, USSR.

A listing of journal title abbreviations used in the abstracts follows the address list.

A

Abehandlungen de Braunschweigischen Wissenschaftlichen Gesellschaft--Fridr. Vieweg and Sohn, Braunschweig, Germany

ABM Boletim da Associacao Brasileira de Metals Associacan Basileira de Metais--Viaduto Dona Paulina, 80, -8° andar (Palacio Mava), Sao Paulo, Brazil

Abrasive Systems--Abrasive Div., Carborundum Co., Niagara Falls, N.Y.

l'Academie Polonaise des Sciences, Bulletin-Panstwowe Wydawnictwo Naukowe, Dzial Czasopism, Miodawa 10, Warsaw 1, Poland

Academie Royal des Sciences d'Outre-Mer., Bulletin des Seances--80A rue de Livourne, Brussels 5, Belgium

l'Acciaio Inossidabile--via Lancetti 36, Milan, Italy

Achats et Entretein de Materiel Industriel l'Industrie Francais--les Nouvelles du Monde, 6 rue de Liege, Paris 9e, France

Acier-Stahl-Steel--47 rue Montoyer, Brussels 4, Belgium

Aciers Fins et Speciaux Francais--12 rue de Madrid, Paris 8e, France

Acoustical Society of America, Journal--American Institute of Physics, Inc., 335 E. 45th St., New York 17, N.Y.

*ACS Journal--American Chemical Society, 1155 16th St., Washington 16, D.C.

Acta Chemica Scandinavica--Gunnar Neumuller, Sueavagen 166, Stockholm, Sweden

Acta Chimica (Academiae Scientiarum Hungarica)--P.O. Box 24, Budapest 502, Hungary

Acta Cientifica Venezolana--Asociacion Venezolana para el Avance de la Ciencia, Libreia de O.B.E., Ciudad Universitaria, Caracas, Venezuela

Acta Crystallographica--47 Prags Blvd., Copenhagen, Denmark

Acta Metallurgica--Pergamon Press, Inc., 122 E. 55th St., New York 22, N.Y.

Acta Metallurgica Sinica--117 Chao. Yang Meng St., Peking, China

Acta Physica (Academiae Scientiarum Hungarica)--Alkotmany u21, Budapest 5, Hungary

Acta Physica Austriaca--Springer-Verlag, Molkerbastei 5, Vienna 1, Austria

Acta Physica Polonica--ul. Wilcza 46, Warsaw 10, Poland

Acta Physica Sinica--Chinese Physical Society, No. 42, Tung Hwang Ching Chen, Peking, China

Acta Polytechnica Scandinavica--Box 5073, Stockholm 5, Sweden

Acta Technica--Magyar Tudomanyos Akademia Konyutara, Akademia utca 2, Budapest 5, Hungary

Actual Specifying Engineer--Domestic Engineering Co., 1801 Prairie Ave., Chicago 16, Ill.

Adhasion--Hadert-Lexikon-Verlag Martin-Luther Str. 88, Berlin W. 30, Germany

Adhesives Age--101 W. 31st St., New York 1, N.Y.

Advanced Energy Conversion--Pergamon Press, 122 E. 55th St., New York 22, N.Y.

Advanced Materials Technology--Carborundum Co., Niagara Falls, N.Y.

Advances in Chemistry Series--American Chemical Society, 1155 16th St., Washington 6, D.C.

Advances in Physics--Taylor & Francis Ltd., 18 Red Lion Court, Fleet St., London, EC4 England

AE-Arma Engineering--American Bosch Arma Corp., Garden City, N.Y.

AEI Engineering--Associated Electrical Industries Ltd., 33 Grosvenor Place, London S.W. 1, England

Aeronautical Quarterly--Royal Aeronautical Society, 4 Hamilton Place, London W. 1, England

AGARD Reports--North Atlantic Treaty Organization, 64 rue de Varenne, Paris 7e, France

AIAA Journal--American Institute of Aeronautics & Astronautics, 1290 Ave. of the Americas, New York, N.Y. 10019

AIChE Journal--345 E. 47th St., New York 17, N.Y.

AIME Metallurgical Society, Transactions--345 E. 47th St., New York 17, N.Y.

AIME Society of Mining Engineers, Transactions--345 E. 47th St., New York 17, N.Y.

Air Force Magazine/Space Digest--Air Force Assoc., 1901 Pennsylvania Ave., N.W. Washington 6, D.C.

Aircraft Engineering--Bunhill Publications Ltd., 12 Bloomsbury Sq., London W.C. 1, England

AJOUR-Teknisk Informasjon--Studieselskapet for Norsk Industri, Forskningsueien 1, Oslo, Norway

Allgemeine Warmetechnik--Zeitschrift fur Warme und Kaltetechnik Postfach 191, Frankfurt-Hoechst 16, Germany

Allis-Chalmers Electrical Review--Allis-Chalmers Manufacturing Co., Milwaukee 1, Wis.

Alloy Digest--Engineering Alloys Digest, Inc., P.O. Box 156, Upper Montclair, N.J.

Alluminio--Rivista della Nuova Metallurgia, via S. Giovanni sul Muro, 9 Milano, Italy

Aluminium--Aluminum-Verlag GmbH, 4 Dusseldorf 10, Jagerhofstr 29, Germany

Aluminium Abstracts--CIDA (Centre International de Developement de l'Aluminium), 6 ave Bertie Albrecht, Paris 8e, France

Aluminium Courier--Aluminium Development Assoc., 33 Grosvenor St., London W. 1, England

Aluminum Bulletin--Aluminum Assoc., Press Div. 240 Lexington Ave., New York 17, N.Y.

Aluminum Co. of America, Technical Papers--Research Laboratories, P.O. Box 772, New Kensington, Pa.

American Bureau of Metal Statistics-- 50 Broadway, New York 4, N.Y.

American Ceramic Society, Bulletin--4055 N. High St., Columbus 14, Ohio

American Ceramic Socity, Journal--4055 N. High St., Columbus 14, Ohio

American Gas Journal--Petroleum Engineer Publishing Co., 52 Vanderbilt Ave., New York 17, N.Y.

American Electroplaters Society, Inc., Technical Proceedings--443 Broad St., Newark 2, N.J.

American Foundrymen's Society, Transactions--Golf & Wolf Rd., Des Plaines, Ill.

American Iron and Steel Institute, Papers--150 E. 42nd St., New York 17, N.Y.

*American Journal of Physica--American Institute of Physics, Inc., 335 E. 45th St., New York 17, N.Y.

*American Machinst/Metalworking Manufacturing--McGraw-Hill Publishing Co., 330 W. 42 nd St., New York 36, N.Y.

American Nuclear Society, Transactions--244 E, Ogden Ave., Hinsdale, Ill.

American Petroleum Institute, Proceedings--1271 Ave. of the Americas, New York 20, N.Y

American Physical Society Bulletin-- Columbia University, New York, N.Y. 10027

American Scientist--51 Prospect St., New Haven, Conn. 06511

American Society of Civil Engineers, Proceedings--345 E. 47th St., New York 17, N.Y.

American Society of Lubrication Engineers, Preprints--838 Busse Highway, Park Ridge, Ill. 60068

American Waterworks Assoc., Journal--2 Park Ave., New York 16, N.Y.

Ampco Welding News-- Ampco Metal, Inc., 1745 S. 38th St., Milwaukee 46, Wis.

Anales de la Resl Sociedad Espanola de Fisica & Quimica Facultad de Cienciss--Ciudad Universitaria, Madrid 3, Spain

Analytical Abstracts--W. Heffer & Sons, Ltd., Cambridge, England

Analyst--W. Heffer & Sons, Ltd., Cambridge, England

Analyzer--Beckman Scientific & Process Instruments Div., 2500 Fullerton Rd., Fullerton, Calif.

Annalen der Physik--Johann Ambrosius Barth, Salomonstrasse 18B, Leipzig C1, Germany

Annales de Chimie--Librairie Masson et Cie, 120 Boul. St-Germain, Paris 6e, France

Annales de Physique--Masson & Cie, 120 Boul. Saint-Germaine, Paris 6e, France

Annals of Physics--Academic Press, 111 Fifth Ave., New York, N.Y.

Application and Industry--Institute of Electrical and Electronics Engineers, Box A, Lenox Hill Station, New York, N.Y. 10021

Applied Magnetics--Indiana Steel Products Co., Valparaiso, Ind.

*Applied Materials Research--Plenum Press, 227 W. 17th St., New York, N.Y. 10011

Applied Mechanics Reviews--345 E. 47th St., New York, N.Y. 10017

Applied Optics--Optical Society of America, 1155 16th St., N.W., Washington 6, D.C.

Applied Physics Letters--American Institute of Physics, Dept. S, 335 E. 45th St., New York, N.Y. 10017

Applied Scientific Research--Martinus Mijhoff, 9 Lange Voorhout, The Hague, Netherlands

Applied Spectroscopy--Society for Applied Spectroscopy, P.O. Box 1228, 417 Cleveland Ave., Plainfield, N.J.

Arbeitsgemeinschaft fur Forschung des Landes Nordhein-Westfahlen--Westdeutscher Verlag, Ophovener Str. 1-3, Oplanden/Rhld. 22a, Germany

Archiv fur das Eisenhuttenwesen--Verlag Stahleisen, GmbH Postfach 8229, Breite Str. 27, 4 Dusseldorf 1, Germany

Archiv fur Technisches Messen (ATM)--Verlag R. Oldenbourg, Rosenheimerstr 145, Munich 8, Germany

Archives des Maladies Professionelles--120 boul. Saint-Germain, Paris 6, France

Archiwum Automatyki i Telemechaniki--Polska Akademia Nauk, SwietoIrzyska 21, pok oj 705, Warsaw, Poland

Archiwum Elektrotechniki--Naukowe, Miodowa 10, Warsaw, Poland

Archiwum Gornictwa--Polska Akademia Nauk, Komitet Gornictwa, Al. Mickiewicze 30, Cracow 2, Poland

Archiwum Hutnictwa--Export und Import-Unternehmen, ul Wronia 23 Warsaw, Poland

Arizona Engineer and Scientist--Arizona Council of Engineering and Scientific Assoc., P.O. Box 1626, Scottsdale, Arizona

Arkiv for Fysik--Almqvist & Wiksell, Stockholm, Sweden

Asarco Digest--American Smelting & Refining Co., 12 Broadway New York 5, N.Y.

ASEA Journal--ASEA, Vasteras, Sweden

ASLE Transactions--American Society of Lubrication Engineers, 838 Busse Highway, Park Ridge, Ill. 60068

ASM Technical Reports--American Society for Metals, Metals Park, Ohio

ASM Transactions Quarterly--American Society for Metals, Metals Park, Ohio

Assembly Engineering--Hitchcock Publishing Co., Hitchcock Bldg., Wheaton, Ill.

Association Francais des Techniques du Petrol--14 Ave. de la Grande Armee Paris 17e, France

Association of Bronze & Brass Founders Bulletin--69 Harborne Rd., Edgbaston, Birmingham 15, England

Association Quimica Argentina, Annales--Sanchez de Bustamante 1749 Buenos Aires, Argentina

ASTM Preprints--American Society for Testing Materials, 1916 Race St. Philadelphia, Pa.

ASTM Proceedings--1916 Race St., Philadelphia, Pa., 19103

ASTME Technical Papers--American Society of Tool and Manufacturing Engineers, 10700 Puritan Ave., Detroit 38, Mich.

Astronautics and Aeronautics--1290 Ave. of the Americas, New York, N. Y. 10019

Astronautics and Aerospace Engineering (See Astronautics and Aeronautics)

ATB Metallurgie--Revue Tijdschrift--9 rue de Houdain, Mons, Belgium

Atomic Energy Society of Japan Journal, Japan Atomic Energy Research Institute, 1, 1-Chome Shiba Tamuracho, Minatoku Tokyo, Japan

Atomkernenergie--Verlag Karl Thiemig KG, Pilgersheimer Str. 38, Munich 9, Germany

Atompraxis--Verlag G. Braun, GmbH, Karl-Friedrich Str. 14, Karlsruhe, Germany

Atomwirtschaft--Verlag Handelsblatt GmbH, 21 Kreuzstr., Dusseldorf, Germany

Australasian Corrosion Engineering-- Australian Association for Corrosion and Prevention, P.O. Box 250, N. Sidney, Australia

Australasian Enginerr--116-126 Cleveland St., Chippendale, Sidney, Australia

Australasian Institute of Mining and Metallurgy, Proceedings--Osborne House, 399 Little Collins St., Melbourne, Australia

Australasian Manufacturer--Manufacturer Publishing Co. Pty, Ltd., Elizabeth St. North Sidney, Australia

Australian Chemical Processing & Engineering--Lawson Press Pty. Ltd., 49 Clarence St., Sydney, Australia

Australian Institute of Metals Journal--23 McKillop St., Melbourne C. 1, Australia

Australian Journal of Applied Science--Commonwelath Scientific & Industrial Research Organ., 314 Albert St., E. Melbourne C. 2, Victoria, Australia

Australian Journal of Chemistry--314 Albert St., E. Melbourne C. 2, Victoria, Australia

Australian Journal of Physics--Commonwealth Scientific & Industrial Research Organ., 372 Albery St., East Melbourne C. 2, Victoria, Australia

Australian Journal of Science--Australian & New Zealand Assoc. for the Advancement of Science, 157 Gloucester St., Sydney, Australia

Australian Machinery & Production Engineering--Australian Trade Publications, Pty. Ltd., 243 Elizabeth St., Sydney, Australia

Australian Mining--415 Bourke St., Melbourne C. 1, Australia

Australian Welding Journal--28 Chippen St., Chippendale N.S.W., Australia

Austrian Machinery and Steel Construction Review--Die Industrie Zeitschriftenverlag, Am Heumarkt 12, Vienna 3, Austria

Automatic Control--Reinhold Publishing Corp., 430 Park Ave., New York 22, N.Y.

Automatic Machining--65 Broad St., Rochester N.Y. 14614

*Automatic Welding (English Translation of Avtomaticheskaya Svarka), British Welding Research Assoc., Abington Hall, Abington, Cambridge, England

Automation--Penton Publishing Co., Penton Bldg., Cleveland 13, Ohio

Automation Progress-The Tower, Brook Green Rd., Mannersmith, London W. 6, England

Automatisme--Editeur Dunod, 92 Rue Bonaparte, Paris 6e, France

Automobile Engineer--iliffe Transport Publications Ltd., Dorset House, Stamford St., London S. E. 1, England

Avtomaticheskaya Svarka, Instituta Elektrosvarki, Akademie Nauk, USSR, Moscow, Russia

B

Ball Bearing Journal--Skefko Ball Bearing Co., Ltd., Luton, England

Bander Bleche Rohre--Michael Triltsch Verlag, Jahnstr 36, Dusseldorf, Germany

Battelle Technical Review--Battelle Memorial Institute, 505 King Ave., Columbus, Ohio 43201

Baumaschine und Bautechnik--Kleine Wihelmstr 7, Wiesbaden, Germany

Bearing Engineer--Torrington Co., Bearings Div., Torrington, Conn.

*Bell Laboratories Record--Bell Telephone Laboratories, Inc., 463 West St., New York 14, N.Y.

Bell System Technical Journal--American Telephone & Telegraph Co., 195 Broadway, New York 7, N.Y.

*Berg und Huttenmannische Monatsheft (der Montanistischen Hochschule in Leoben)--Springer-Verlag, Molkerbastei 5, Vienna 1, Austria

Bergakademie--Akademie-Verlag GmbH, Leipziger Str. 3-4, Berlin W. 8, Germany

Bergbautechnik--Oranienburger Str. 13/14, Berlin C. 2, Germany

Beton und Stahlbetonbau--Wilhelm Ernst & Sohn, Hohenzollerndamm 169, Berlin-Wilmersdorf, Germany

B.H.P. Technical Bulletin--Broken Hill Proprietary Co., Ltd., Essington Lewis House, 500 Bourke St., Melbourne C1, Australia

Bild der Wissenschaft--Neckarstr 121, 7 Stuttgart 1, Germany

Birmingham Metallurgical Society, Journal--Dept. of Physical Metallurgy, The University, Edgbaston, Birmingham 15, England

Blast Furnace and Steel Plant--Steel Publications, Inc., 624 Grant Bldg., Pittsburgh, Pa. 15230

Blech--Prost & Meiner-Verlag, Coburg/Bayern 13a, Germany

British Ceramic Society, Transactions--Shelton House, Stoke-on-Trent, England

British Chemical Engineering--Heywood & Co. Ltd., Drury House, Russel St., London W.C. 2, England

British Communications and Electronics--Heywood & Co., Ltd., Carlton House, Great Queen St., London W.C. 2, England

British Foundryman--Institute of British Foundrymen, 137-139 Euston Rd., London N.W. 1, England

British Institution of Radio Engineers, Journal--9 Bedford Sq., London W.C. 1, England

British Iron and Steel Research Association Publications--24 Buckingham Gate, London S.W. 1, England

British Journal of Applied Physics (See Journal of Physics)

British Journal of Nondestructive Testing--10 Chalfont Close, Leigh-on-Sea, Essex, England

British Machine Tool Engineering--17 Grosvenor Gardens, London S.W. 1, England

British Steelmaker--7 Chesterfield Gardens, Curzon St., Mayfair, London W. 1, England

British Welding Journal--54 Princess Gate, Exhibition Rd., London S.W. 7, England

Brown Boveri Mitteilungen--Brown, Boveri and Co., Ltd., Baden, Switzerland

Brutcher, Henry Translations--P.O. Box 157, Altadena, Calif.

Building With Steel--British Constructional Steelworks Assoc., Artillery House, Artillery Row, London S.W. 1, England

Buletinul Institutului Politehnic din Iasi--Calea 23 August, 11, Iasi, Rumania

BWK (Brennstoff-Warme-Kraft)--VDI-Verlag GmbH, Bongardstr 3, Dusseldorf, Germany

Bureau of Ships, Journal--U.S. Navy Dept., Superintendent of Documents, Washington 25, D.C.

C

Calore--Istituto Propaganda Internazionale, Via Friull 32, Milan, Italy

Cambridge Philosophical Society, Proceedings--Cambridge University Press, 200 Euston Rd., London N.W. 1, England

Canada's Machine Production--341 Church St., Toronto 2, Ont., Canada

Canadian Ceramic Society, Journal--Canadian Ceramic Society, 49 Turner Rd., Toronto, Ont., Canada

Canadian Chemical Processing--Southam Business Publications Ltd., 1450 Don Mills Rd., Don Mills, Ont., Canada

Canadian Dept. of Mines & Technical Surveys-Publications--National Research Council, Ottawa 7, Ont., Canada

Canadian Institute of Mining & Metallurgy and Mining Society of Nova Scotia, Transactions--906 Drummond Bldg. Montreal, P.Q., Canada

Canadian Journal of Chemical Engineering--Chemical Institute of Canada, 48 Rideau St., Ottawa 2, Ont., Canada

Canadian Journal of Chemistry--National Research Council, Ottawa 7, Ont., Canada

Canadian Journal of Physics--National Research Council, Ottawa 7, Ont., Canada

Canadian Machinery and Manufacturing News--Maclean Hunter Publishing Co., Ltd., 481 University Ave., Toronto 2, Ont., Canada

Canadian Machinery and Metalworking--Maclean-Hunter Publishing Co., Ltd., 481 University Ave., Toronto 2, Ont., Canada

Canadian Metallurgical Quarterly--Mines Branch, Dept. of Mines & Technical Surveys, Ottawa, Ont., Canada

Canadian Metalworking--1450 Don Mills Rd., Ont., Canada

Canadian Mining and Metallurgical Bulletin--Canadian Institute of Mining and Metallurgy, 906 Drummond Bldg., Montreal 2, P.Q., Canada

Canadian Mining Journal--National Business Publications Ltd., Gardenvale, P.Q., Canada

Canadian Mining Manual--National Business Publications Ltd., Gardenvale, P.Q., Canada

Canadian Welder and Fabricator--365 Bannatyne Ave., Winnipeg 2, Man., Canada

Cast Iron Pipe News--Suite 3440, Prudential Plaza, Chicago, 1, Ill.

Cast Metals Research Quarterly--American Foundrymen's Society, Golf and Wolf St., Des Plaines, Ill.

Castings--Wingello House, Angel Place, Sydney, Australia

CEBELCOR Technical Reports--24 rue des Chevaliers, Brussels 5, Belgium

CEP (Chemical Engineering Progress)--American Institute of Chemical Engineers, 345 E. 47th St., New York 17, N.Y.

Ceramic Age--Ceramic Publications, Inc., 2728 Euclid Ave., Cleveland 15, Ohio

Ceramic Industry--Industrial Publications, Inc., 5 S. Wabash Ave., Chicago 3, Ill.

Ceramics--Arrow Press Ltd., 65 Turnmill St., London E.C. England

Chaleur et Industrie--2 rue des Tanneries, Paris 13e, France

Chartered Mechanical Engineer--Institute of Mechanical Engineers, 1 Birdcage Walk, Westminster S.W. 1, England

*Chemical Age--Bourverie House, 154 Fleet St., London E.C. 4, England

Chemical and Engineering News--American Chemical Society, 1155 Sixteenth St. N.W., Washington 6, D.C.

Chemical Engineering--McGraw-Hill Publications, 330 West 42nd St., New York 36, N.Y.

Chemical Physics Letters--North-Holland Publishing Co., P.O. Box 103, Amsterdam, The Netherlands

Chemical Products--John Trundell Ltd., St. Richard's House, Eversholt St., London N.W. 1, England

Chemical Reviews--American Chemical Society, 1155 16th St. N.W., Washington 6, D.C.

Chemical Society, Journal--Burlington House, Piccadily, London W. 1, England

Chemical Society, Proceedings--Burlington House, Picadilly, London W. 1, England

Chemical Week--McGraw-Hill Publications, 330 W. 42nd St., New York 36, N.Y.

Chemicke Listy--Ceskoslovenska Spolecnost Chemicka Pri Csav, Vodiskova 40, Prague 1, Czechoslovakia

Chemicky Prumysl--Spalena 51, Prague 2, Czechoslovakia

Chemie fur Labor & Betrieb--Umschau Verlag, Stuttgarter Str. 20-24, Frankfurt am Main, Germany

**Chemie-Ingenieur-Technik--Verlag Chemie GmbH, Pappelallee 3, Weinheim/Bergstr., Germany

Chemiker Zeitung/Chemische Apparatur--Alfred Huthig Verlag, Wilckenstrasse 3/5, Heidelberg, Germany

Chemische Industrie--Verlag Handelsblatt GmbH, Kreuzstrasse 21, Dusseldorf, Germany

*Chemische Technik--Buchdruckerei Vogt-Schild AG, Solothurn, Switzerland

Chemische Technik--Karl-Heine-Str. 27, Leipzig W. 31, Germany

Chemistry and Industry--Society of Chemical Industry, 4 Belgrave Sq., London S.W. 1, England

Chemistry in Canada--Chemical Institute of Canada, 48 Rideau St., Ottawa 2, Ont., Canada

Chicago Purchasor, Purchasing Agents Assoc., of Chicago, 134 N. La Salle St., Chicago 2, Ill.

Chimia--H.R. Sauerlaender & Co., Aarua, Switzerland

Chimie & Industrie--28 rue St. Dominique, Paris 7e, France

Chimika Chronika--10 Kaningos St., Athens, Greece

Chinese Journal of Physics--Physics Dept., National Taiwan University, Taipei, Taiwan, China

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l'Ingegnere--Via Della Mercede 33, Rome, Italy

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Science and Technology, 205 E. 42nd St., New York, N.Y. 10017

*Scientia Sinica--Academia Sinica, Guozi Shudin, Box 399, Peking, China

Scientific American--415 Madison Ave., New York 17, N.Y.

Scientific Lubrication--Scientific Publications, Broseley, Shropshire, England

Seifen, Ole, Fette, Wachse--H. Ziolkowsky KG, Beethovenstr. 16, Augsburg, Germany

Semiconductor Products--300 W. 43rd St., New York 36, N.Y.

Sheet Metal Industries--John Adam House, 17-19 John Adam St., Adelphi, London, W.C.2, England

Siemens Review--Werner-von-Siemens-Str 50, Erlangen, Germany

Siemens Zeitschrift--Werner-von-Siemens Str. 50, Erlangen, Germany

Silicates Industriels--13 Rue de Poissonniers, Brussels, Belgium

Slevarenstvi--Ministerstvo Tezkeho Strojirenstvi, Prague, Czechoslovakia

Smit-Mededelingen--Transformatorgenfabriek N. V., Groenestraat 336, Nijmegen, The Netherlands

SNTL Technical Digest--Spalena 51, Prague 2, Czechoslovakia

Societe Francaise de Ceramique, Bulletin--44 rue Copernic Paris 16e, France

Societe Francaise de Mineralogie et de Cristallographie--120 bd. St-Germain, Paris 6e, France

Societe Royale Belge des Ingenieurs et des Industries, Revue--3 rue Ravenstein, Brussels 1, Belgium

Societes Chimiques Belge, Bulletin--50 ave Franklin Roosevelt, Brussels, Belgium

Society of Plastics Engineers, Journal (SPE Journal)--65 Prospect St., Stamford, Conn.

Society of Plastics Engineers, Transactions (SPE Transactions)--65 Prospect St., Stamford, Conn.

SOFRESID--26 Blvd. de Vaugirard, Paris 15e, France

Solid-State Communications--Pergamon Press Ltd., 122 E. 55th St., New York 22, N.Y.

Solid-State Electronics--Pergamon Press Ltd., 122 E. 55th St., New York 22, N.Y.

Soudage et Techniques Connexes--32 Blvd., de la Chapelle, Paris 18e, France

South African Engineer--66 Commissioner St., Johannesburg, South Africa

South African Industrial Chemist--Box 704, Johannesburg, South Africa

*South African Institute of Mining and Metallurgy Journal--P.O. Box 1183, Kelvin House, Hollard & Marshall St., Johannesburg, South Africa

South African Mechanical Engineer--South African Institution of Mechanical Engineers, Box 5907, Johannesburg, South Africa

South African Mining & Engineering Journal--66 Commissioner St., Johannesburg, South Africa

South Wales Institute of Engineers, Proceedings--Park Place, Cardiff, Wales

Southern Power and Industry--1760 Peachtree Road, N.W., Atlanta 9, Ga.

*Soviet Journal of Non-Ferrous Metals (English Translation of Tsvetnye Metally)--Primary Souces, 11 Bleecker St., New York, N.Y. 10012

*Soviet Physics--Crystallography (English Translation of Kristallografiya)--American Institute of Physics, 335 E. 45th St., New York, N.Y. 10017

*Soviet Physics--JETP (English Translation of the Journal of Experimental and Theoretical Physics of the Academy of Sciences of the USSR)--American Institute of Physics, 335 E. 45th St., New York, N.Y. 10017

*Soviet Physics--Solid State (English Translation of Fizika Tverdogo Tela)--American Institute of Physics, 335 E. 45th St., New York, N.Y. 10017

*Soviet Physics--Technical Physics (English Translation of Zhurnal Tekhnicheskoi Fizik)--American Institute of Physics, 335 E. 45th St., New York, N.Y. 10017

Space/Aeronautics--205 E. 42nd St., New York 17, N.Y.

Spaceflight--British Interplanetary Society, 12 Bessborough Gardens, London, S.W. 1, England

Special Steel--Special Steel Assoc. of Japan No. 5, 2-Chome Binza, Chuoku, Tokyo, Japan

Spectrochimica Acta--Pergamon Press Ltd., 122 E. 55th St., New York 22 N.Y.

Sperryscope--Sperry Rand Corp., 30 Rockefeller Plaza, New York 20, N.Y.

Sprechsaal fur Keramik-Glas-Email--Mauer 2, Postfach 401, Coburg (Bayern), Germany

SRI Journal--Stanford Research Institute, Menlo Park, Calif.

Stahl und Eisen--Postfach 8229, Breite Str. 27, Dusseldorf, Germany

*Stahlbau-Hohen-Zollerndamm 169, Berlin, Wilmersdorf, Germany

Stainless Steel Architectural Data Sheets--Committee of Stainless Steel Producers, American Iron and Steel Institute, 150 E. 42nd St., New York 17, N.Y.

Stainless Steel Architectural Quarterly--American Iron and Steel Institute, 150 E. 42nd St., New York 17, N.Y.

Stal'--Gosudarstvennoe Nauchno-Tekhnicheskoe, Izdatel'stvo Literatury po Chernoi i Tsvetnoi Metallurgii, Moscow, USSR

*Stal (English Translation of Stal')--Iron and Steel Institute, 4 Grosvenor Gardens, London S.W. 1, England

Staub--Bongardstr. 3, Dusseldorf, Germany

Steel--1213 W. Third St., Cleveland 13, Ohio

Steel Facts--American Iron and Steel Institute, 150 E. 42nd St., New York 17, N.Y.

Steel Furnace Monthly--Chartered Bank Bldg., Calcutta 1, P.B. 46, India

Steel Horizons--Allegheny Ludlum Steel Corp., Oliver Bldg., Pittsburgh 22, Pa.

Steel Review--British Iron & Steel Federation, Steel House, Tothill St., London S.W. 1, England

Steel Times--John Adam House, 17-19 John Adam St., Adelphi, London W.C. 2, England

Steelways--American Iron and Steel Institute, 150 E. 42nd St., New York 17, N.Y.

Strojirenstvi--Statni Nakladatelstvi Technicke Literatury, 51, Spalena, Prague 1, Czechoslovakia

Structural Engineer--11 Upper Belgrave St., London S.W. 1, England

Studii si Cercetari de Mecanica Aplicata--Institutul de Mecanica Aplicata, 15 Rue Const. Mille, Bucharest, Rumania

Studii si de Metalurgie--Academia Republicii Pipulare Romine, Centrul de Cercetari Metalurgice, Str. Foisor 41, Bucharest, Rumania

STZ--Schweizerische Technische Zeitschrift--Gotthardstr. 61, Zurich 27, Switzerland

Sulzer Technical Review--Sulzer Brothers Ltd., Winterhur, Switzerland

Sumitomo Light Metals Technical Reports--Sumitomo Metal Industries Ltd., 31, Kawaramachi 4-Chome, Higashi-ku, Osaka, Japan

Sumitomo Metals--31, Kawaramachi 4-Chome, Higashi-ku, Osaka, Japan

Suomen Kemistilehti--Suomalisten Kemistien Sevra, Fil. kand. Pentti, P. O. Box 5041, Helsinki, Finland

Surface Science--North-Holland Publishing Co., P. O. Box 103, Amsterdam, The Netherlands

Svarochnoe Proizvodistvo--Gosudarstvennoe Nauchno-Tekhnicheskoe, Izdatel'stvo Mashinostroitel'noi Literatury, Moscow, USSR

Svensk Kemisk Tidskrift, Svenska Kemistsamfundet, Karolinska Institute, Stockholm 60, Sweden

Svetsen--Svetstekniska Foreningen IVA, Box 5073, Stockholm 5, Sweden

Swiss Technics--Swiss Office for the Development of Trade, Av. Bellefontaine 17, Lausanne, Switzerland

T

Tech Engineering News--Massachusetts Institute of Technology, Walker Memorial, Cambridge 39, Mass.

Technica--Birkhauser Verlag, Elisabethenstr. 19, Basel, Switzerland

Tecnica Metalurgica--Paseo de Gracia 50, Barcelona, Spain

Technical Report--British Engine Boiler & Electrical Insurance Co., Ltd., Longridge House, Manchester 4, England

Technik--Oranienburger Str. 13-14, Berlin C. 2, Germany

Technik und Betrieb--Rennweg 1, Vienna 3, Austria

Teknillisen Kemian Aikakauslehti--Central Chemical Assoc., Helsinki, Finland

Technion Review--Israel Institute of Technology, 1000 Fifth Ave., New York 28, N. Y.

Technique Moderne--16 Blvd. St-Germain, Paris 5e, France

Technique et Science Aeronautiques et Spatiales--Assoc. Francaise des Ingenieurs et Techniciens de l' Aeronautique, 6 rue Cimarosa, Paris 16e, France

Technische Mitteilungen--Postfach 1815, Essen, Germany

Technische Mitteilungen Krupp--Werksberichte--Postfach 10, 43 Essen 1, Germany

Technische Uberwachung--Postfach 10250, 4 Dusseldorf 10, Germany

Teknisk-Tidskrift--Box 841, Stockholm 1, Sweden

Teknisk Ukeblad--Ingeniorenes Hus, Oslo 9, Norway

Termotecnica--Via Marconi 15, Milan, Italy

Tetsu-to-Hagane--Iron and Steel Institute of Japan, No. 1, Marunouchi 1-Chome, Chiyoda-ku, Tokyo, Japan

Tetsu-to-Hagane Overseas, Iron and Steel Institute of Japan, No. 1, Marunouchi 1-Chome, Chiyoda-ku, Tokyo, Japan

33-Magazine of Metals Producing--Opec, Inc., 24 Commerce St., Newark 2, N. J. 07102

Tidsskrift for Kjemi, Bergvesen og Metallurgi--Teknisk Ukeblad Ekspedisjon, Kromprinsensgt. 17, Oslo, Norway

Tidskriften Verkstaderna--Storgatan 3, Stockholm, Sweden

Tin and Its Uses--Tin Research Institute, Fraser Rd , Perivale, Greenford, Middlesex, England

Tisco--Journal of the Tata Iron & Steel Co., Ltd., Jamshedpur, India

Titanium Metals Corp. of America Publications--233 Broadway, New York 7, N. Y.

Tokai Technological Journal--Technical Research Laboratory, Tokai Electrode Manufacturing Co. Ltd., Daigiri, Fugisawa City, Japan

Tohoku University Science Reports of the Research Institutes--Sendai, Japan

Tohoku University, Technology Reports--Faculty of Engineering, Sendai, Japan

Tokyo Institute of Technology, Bulletin--Oh-Okayama, Meguroku, Tokyo, Japan

Tokyo Metropolitan University Faculty of Technology, Memoirs--Dean of the Faculty of Technology, Tokyo, Japan

Tokyo University, Faculty of Engineering Journal, Annual Report--Tokyo University, Bumkyo-ku, Tokyo, Japan

Tokyo University Institute of Industrial Science, Report--Azabu, Shinryudocho, Tokyo, Japan

Tomindustrie-Zeitung und Keramische Rundschau--Hermann Hubener Verlag KG, Postfach 68, Goslar, Germany

Tool and Manufacturing Engineer--American Society of Tool Engineers, 20501 Ford Rd., Dearborn, Mich. 48127

Tooling & Production--1975 Lee Rd., Cleveland 18, Ohio

Traitements de Surface--rue Jean-Goujon, Paris 8e, France

Traitement Thermique--254 rue de Vaugirard, Paris 15e, France

Trattamenti dei Metalli--Via Savona 142, Milan, Italy

Trempe--7, rue Ampere, Puteaux (Seine), France

Tsvetnye Metally--Gosudarstvennoe Nauchno-Tekhnicheskoe, Izdatel'stvo Literatury po Chernoi i Tsvetnoi Metallurgii, Moscow, USSR

TZ fur Prakische Metallbearbeitung--Waldburstr. 123, Postfach 90, 7 Stuttgart-Vaihingen, Germany

U

Ultrasonic News, --37 Brown House Rd., Stamford, Conn.

Ultrasonics--Dorset House, Stamford St., S. E. 1, England

Union Carbide Metals Review--30 E. 42nd St., New York 17, N. Y.

U. S. Steel Quarterly--United States Steel Corp., 71 Broadway, New York 6, N. Y.

Universidad Industrial de Santander, Revista--Dept. of Publicaciones Cientificas e Intercambios, Investigaciones Cientificas, Bucaramanga, Columbia

L'Usine Nouvelle-15 rue Bleue, Paris 9e, France

V

*VDI Berichte--Dusseldorf 10, Germany

*VDI-Zeitschrift--Bongardstr. 3, Dusseldorf, Germany

Vacuum--Pergamon Press, Headington Hill Hall, Oxford, England

Vakuum-Technik--Leibnizstr. 64, Berlin/Charlottenburg 2, Germany

Vectors--147 ter A. Bd. de Strasbourg, Nogent-sur-Marne, France

Von Roll Mitteilungen--Louis de Roll Iron Works Ltd., Gerlafingen, Switzerland

W

Waseda University Castings Research Laboratory, Reports--500 Totsuka 1-Chrome, Shinjuku-ku, Tokyo, Japan

Washington State Institute of Technology, Bulletin--Technical Extension Service, Washington State University, Pullman, Wash.

Wear-Usure-Verschleiss- P. O. Box 211, 355 Jan Van Galenstraat, Amsterdam-W, The Netherlands

Welder--Murex Welding Processes Ltd., Waltham Cross, Herts., England

*Welding and Metal Fabrication--Dorset House, Stamford St., London S. E. 1, England

Welding Design and Fabrication--812 Huron Rd., Cleveland, Ohio 44115

Welding Engineer--P. O. Box 28, Morton Grove, Ill.

Welding Fabrication and Design--Australian

Trade Publications, 243 Elizabeth St., Sydney, Australia

Welding in the World--American Welding Society, 345 E. 47th St., New York, N.Y. 10017

Welding Journal--American Welding Society, 345 E. 47th, New York 17, N.Y.

*Welding Production (English Translation of Svarochnoe Proizvodstvo)--British Welding Research Assoc., Abington Hall, Abington, Cambridge, England

Welding Research Council Bulletin--American Welding Society, Inc., 345 E. 47th St., New York 17, N.Y.

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Welding Society Journal--29 Higashi Matsushitacho, Kanda, Chiyodaku, Tokyo, Japan

*Werkstatt und Betrieb--Carl Hanser Zeitschriftenverlag GmBH, Munich 27, Germany

*Werkstatt und Betrieb (with English Translations)--Carl Hanser Zeitschriftenverlag GmbH, Munich 27, Germany

Werkstattstechnik--Heidelberger Platz 3, Berlin-Wilmersdorf, Germany

West of Scotland Iron & Steel Institute, Journal, 39 Elmbank Crescent, Glasgow, c2, Scotland

Western Machinery and Steel World--43 Cleveland St., San Francisco, Calif. 94103

Western Metalworking--2035 Miramar St., Los Angeles, Calif.

Westinghouse Engineer--P.O. Box 2278, 3 Gateway Center, Pittsburgh 30, Pa.

Westinghouse Technical Papers--Box 2278, Pittsburgh 30, Pa.

Wild-Barfield Heat Treatment Journal--Watford By-Pass, Watford, Herts., England

*Wire and Wire Products--453 Main St., Stamford, Conn. 06901

Wire Industry--33 Furnival St., London E.C. 4, England

Wire World International--Jahnstr 36, Dusseldorf, Germany

Wissenscheftliche Zeitschrift der Humbaldt-Universitat zu Berlin--Universitaets-Bibliothek der Humboldt-Universitaet zu Berlin, Clara-Zetkin-Str. 27, Berlin, Germany

Wissenschaftliche Zeitschrift der Martin-Luther-Universitat, Halle-Wittenberg-August-Bebel-Str. 13, Halle, Germany

Wissenschaftliche Zeitschrift der Technischen Hochschuler fur Chemie--Technische Hochschule fur Chemie, Geusaer Str., Merseburg, Germany

World Oil--Gulf Publishing Co., Box 2608, Houston 1, Tex.

WSU Technometer, Washington State University, Pullman, Wash.

Y

Yawata Technical Report--Yawata Iron and Steel Co., Ltd., Tekko Bldg., No. 1 1-Chome, Marunochi, Chiyoda-ku, Tokyo, Japan

Z

Zairyo (Journal of the Society of Materials Science)--Japan Publications Trading Co., Ltd., Central P.O. Box 722, Tokyo, Japan

Zavodskaya Laboratoriya--Gosudarstvennoe Nauchno-Tekhnicheskoe, Izdatel'stvo Literatury po Chernoi i Tsvetnoi Metallurgii, Moscow, USSR

Zeitschrift fur Angewandte Mathematik und Physik--Birkhauser Verlag, Basel 10, Switzerland

Zeitschrift fur Angewandte Physik--Heidelberger Platz 3, Berlin-Wilmersdorf, Germany

*Zeitschrift fur Anorganische und Allgemeine Chemie-Salomonstr. 18B, Leipzig C. 1, Germany

Zeitschrift fur Chemie--Karl-Heine-Str. 27, Leipzig W. 31, Germany

Zeitschrift fur Elektrochemie--Weinheim/Bergstr., Germany

Zeitschrift fur Erzeberbau & Metallhuttenwesen--Morikestr. 17, Stuttgart 5, W. Germany

Zeitschrift fur Instrumentenkunde--Bergplatz 1, Braunschweig, Germany

Zeitschrift fur Kristallographie--Cronstettenstr. 6a, Frankfurt am Main, Germany

Zeitschrift fur Metallkunde--Morikestr. 17, Stuttgart s, W. Germany

Zeitschrift fur Naturforschung--Uhlandstrasse 11, Tubingen, Germany

Zeitschrift fur Physik--Heidelberger Platz 3, Berlin-Wilmersdorf, Germany

Zeitschrift fur Physikalische Chemie--Sternwartenstr. 8, Keipzig C. 1, Germany

Zeitschrift fur Schweisstechnik (Journal de la Soudure)--Stauffacherquai 36, Zurich 1, Switzerland

Zvaranie--Ministerstvo Hutneho Priemyslu a Rudnychbani, Vyskummy Ustav Svaracsky, Bratislava, Czechoslovakia

TRANSLATIONS

English translations of some foreign language articles and journals are available from commercial translation sources. These sources are indicated by the word "Translation" plus appropriate code letters immediately following the serial number of the abstract. Individual articles or journal subscriptions should be ordered from the sources, as indicated by the code letters.

The symbol RZ following the language designation in certain abstracts indicates that the abstract is translated directly from the Russian abstracting journal Referativnyi Zhurnal—Metallurgiya.

ActaMet
44-01 21st St., Long Island City, N.Y. 11101

AIP—American Institute of Physics, Inc.
57 East 55th St., New York 22, N.Y.

BCIRA—British Cast Iron Research Assoc.
Bordesley Hall, Alvechurch, Birmingham, England

BISI—British Iron and Steel Industry Translation Service
Iron and Steel Institute
4 Grosvenor Gardens, London S.W. 1, England

Brutcher—Henry Brutcher Translations
P.O. Box 157, Altadena, Calif.

BWRA—British Welding Research Assoc.
29, Park Crescent, London W. 1, England

ConBur—Consultants Bureau, Inc.
227 West 17th St., New York 11, N.Y.

ISA—Instrument Society of America
530 Wm. Penn Place, Pittsburgh 19, Pa.

ISI—Iron and Steel Institute
4 Grosvenor Gardens, London S.W. 1, England

OSA—Optical Society of America
1155 16th St., N.W., Washington 6, D.C.

Pergamon—Pergamon Press, Inc.
44-01 21st St., Long Island City, N.Y. 11101
(Headington Hill Hall, Oxford, England)

PrimSources—Primary Sources
11 Bleecker St., New York 12, N.Y.

RZ—Referativnyi Zhurnal—Metallurgiya
Proizvodstvenno-Izd., Kombinat VINITI,
Baltiiskaya ul 14, Moscow, USSR

SIC—Scientific Information Consultants
661 Finchley Rd., London, N.W. 2, England

SLA—Special Libraries Assoc. Translation Center
John Crerar Library
35 West 33rd St., Chicago, Ill. 60616

JOURNAL TITLE ABBREVIATIONS

	A
Abhandl Braunschweigischen Wiss Ges	Abehandlungen der Braunschweigischen Wissenschaftlichen Gesellschaft
Acciaio Inossidabile	l'Acciaio Inossidabile
Achats Entretein	Achats et Entretein
Acier-Stahl-Steel	Acier-Stahl-Steel
Aciers Fins Spec	Aciers Fins et Speciaux Francais
Acta Chem Scand	Acta Chemica Scandinavica
Acta Chim (Acad Sci Hung)	Acta Chimica (Academiae Scientiarum Hungarica)
Acta Cient Venez	Acta Cientifica Venezolana
Acta Crystallogr	Acta Crystallographica
Acta Met	Acta Metallurgica
Acta Met Sinica	Acta Metallurgica Sinica
Acta Phy Austriaca	Acta Physica Austriaca
Acta Phys Pol	Acta Physica Polonica
Acta Phys Sinica	Acta Physica Sinica
Acta Polytech Scand	Acta Polytechnica Scandinavica (Denmark, Finland, Norway)
Actual Spec Eng	Actual Specifying Engineer
Adhasion	Adhasion
Adhes Age	Adhesives Age
Advan Energy Convers	Advanced Energy Conversion
Advan Mater Tech	Advanced Materials Technology
Advan Phys	Advances in Physics
AE (Arma Eng)	AE-Arma Engineering
AEI Eng	AEI Engineering
Aerospace Eng	Aerospace Engineering
Aeronaut Quart	Aeronautical Quarterly
Air Force Mag/Space Dig	Air Force Magazine/Space Digest
Aircraft Eng	Aircraft Engineering
AJOUR Tek Inform	AJOUR-Teknisk Informasjon
Allg Prakt Chem	Allgemeine und Praktische Chemie
Allg Warmetech	Allgemeine Warmetechnik
Allis-Chalmers Elec Rev	Allis-Chalmers Electrical Review
Alloy Dig	Alloy Digest
Alluminio	Alluminio
Aluminium	Aluminium
Alum Cour	Aluminium Courier
Alum Bull	Aluminum Bulletin
Amer Bur Metal Statist	American Bureau of Metal Statistics
Amer Ceram Soc Bull	American Ceramic Society Bulletin
Amer Gas J	American Gas Journal
Amer J Physics	American Journal of Physics
Amer Mach/Metalworking Manuf	American Machinist/Metalworking Manufacturing
Amer Mineral	American Mineralogist
Amer Nucl Soc Trans	American Nuclear Society Transactions
Amer Scientist	American Scientist
Amer Soc Lubric Eng Trans	American Society of Lubrication Engineers Transactions
Ampco Weld News	Ampco Welding News
An Mec Elec	Anales De Mecanica y Electricidad
An Real Soc Espan Fis Quim	Anales de la Real Sociedad Espanola de Fisica y Quimica
Analyst	Analyst
Analyzer	Analyzer
Angew Chem	Angewandte Chemie
Ann Phys (Ger)	Annalen der Physik
Ann Chim (Fr)	Annales de Chimie
Ann Fals Expertise Chim	Annales des Falsifications et de l'Expertise Chimique
Ann Phys (Fr)	Annales de Physique
Ann Phys (US)	Annals of Physics (U. S.)
Anti Corrosion	Anti-Corrosion
Appl Ind	Applications and Industry
Appl Magnet	Applied Magnetics
Appl Mater Res	Applied Materials Research
Appl Mech Rev	Applied Mechanics Reviews
Appl Optics	Applied Optics
Appl Phys Lett	Applied Physics Letters
Appl Sci Res	Applied Scientfic Research
Appl Spectrosc	Applied Spectroscopy
Arch Eisenhuttenw	Archiv fur das Eisenhuttenwesen
Arch Elektrotech	Archiv fur Elektrotechnik
Arch Tech Mes Ind Messtech	Archiv fur Technisches Messen und Industrielle Messtechnik
Arch Mal Prof	Archives des Maladies Professionnelles
Arch Automat Telemech	Archiwum Automatyki i Telemechaniki
Arch Elektrotech	Archiwum Elektrotechniki
Arch Gornicta	Archiwum Gornicta
Arch Hutnictwa	Archiwum Hutnictwa
Ariz Eng Sci	Arizona Engineer and Scientist
Ark Fyz	Arkiv for Fysik
Asarco Dig	Asarco Digest
ASEA J	ASEA Journal
Assembly Eng	Assembly Engineering
Assoc Quimica Argent Ann	Association Quimica Argentina, Annales
Astronaut Aerospace Eng	Astronautics and Aerospace Engineering
ATB Met	ATB Metallurgie
At Energ Soc Jap J	Atomic Energy Society of Japan Journal
Atomkernenergie	Atomkernenergie
Atompraxis	Atompraxis
Atomwirtschaft	Atomwirtschaft
Australas Corros Eng	Australasian Corrosion Engineering
Australas Eng	Australasian Engineer
Australas Manuf	Australasian Manufacturer
Aust Chem Process Eng	Australian Chemical Processing and Engineering
Aust J Chem	Australian Journal of Chemistry
Aust J Phys	Australian Journal of Physics
Aust J Sci	Australian Journal of Science
Aust Mach Prod Eng	Australian Machinery and Production Engineering
Aust Mining	Australian Mining
Aust Weld J	Australian Welding Journal
Austrian Mach Steel Construct Rev	Austrian Machinery and Steel Construction Review
Automat Contr	Automatic Control
Automat Mach	Automatic Machining
Automat Weld	Automatic Welding
Automation	Automation
Automation Progr	Automation Progress
Automatisme	Automatisme
Auto Eng	Automobile Engineer
Aviat Week	Aviation Week
Aviat Week Space Technol	Aviation Week and Space Technology
Avtomat Svarka	Avtomaticheskaya Svarka
	B
Ball Bearing J	Ball Bearing Journal
Bander Blech Rohr	Bander Bleche Rohre
Battelle Tech Rev	Battelle Technical Review
Bauplanung Bautech	Bauplanung Bautechnik
Bearing Eng	Bearing Engineer
Bell Lab Rec	Bell Laboratories Record
Bell Syst Tech J	Bell System Technical Journal
Berg Huttenmann Monatsh Montanhochsch Leoben	Berg und Huttenmannische Monatsheft der Montanistischen Hochschule in Leoben
Bergakademie	Bergakademie
Beton Stahlbetonbau	Beton und Stahlbetonbau
BHP Tech Bull	B. H. P. Technical Bulletin
Bild Wiss	Bild der Wissenschaft
Blast Furnace Steel Plant	Blast Furnace Steel Plant
Blech	Blech
Braunkohle	Braunkohle
Brennstoff Warme Kraft	Brennstoff-Warme-Kraft
Brit Chem Eng	British Chemical Engineering
Brit Commun Electron	British Communications and Electronics
Brit Corros J	British Corrosion Journal
Brit Eng Boiler Elec Ins Tech Rep	British Engine Boiler and Electrical Insurace Co. Ltd., Technical Reports

Brit Foundryman	British Foundryman
Brit J Appl Phys	British Journal of Applied Physics
Brit J Appl Sci	British Journal of Applied Science
Brit Mach Tool Eng	British Machine Tool Engineering
Brit Steelmaker	British Steelmaker
Brit Weld J	British Welding Journal
Brown Boveri Mitt	Brown-Boveri Mitteilungen
Building Steel	Building with Steel
Bul Inst Politeh Bucuresti	Buletinul Institutului Politehnic Bucuresti
Bul Inst Politeh din Iasi	Buletinul Institutului Politehnic din Iasi
Bul Stiint Inst Politeh Timisoara	Buletinul Stiintificsitehic Institutului Politehnic Timisoara
Bul Acad Pol Sci	Bulletin de l'Academie Polonaise des Sciences
Bull Amer Phys Soc	Bulletin of the American Physical Society
Bull Electrochem Soc India Sect	Bulletin of the Electrochemical Society India Section
Bull Inst Metal Finish	Bulletin of the Institute of Metal Finishing
Bull Inst Vitreous Enamellers	Bulletin of the Institute of Vitreous Enamellers
Bull Inst Mining Met	Bulletin of the Institution of Mining and Metallurgy
Bull Jap Soc Mech Eng	Bulletin of the Japan Society of Mechanical Engineers
Bull Mineral Res Explor Inst	Bulletin of the Mineral Research and Exploration Institute
Bull Mining Met Soc Amer	Bulletin of the Mining and Metallurgical Society of America
Bull Osaka Univ Prefecture	Bulletin of the Osaka University Prefecture
Bull Sci Acad Roy Sci Outre-Mer	Bulletin des Sciences de l'Academie Royal des Sciences d'Outre-Mer
Bull Soc Chim Fr	Bulletin de la Societe Chimique de France
Bull Soc Fr Ceram	Bulletin de la Societe Francaise de Ceramique
Bull Soc Fr Mineral Cristallogr	Bulletin de la Societe Francaise de Mineralogie et de Cristallographie
Bull Soc Chim Belge	Bulletin des Societes Chimiques Belge
Bull Univ Missouri Sch Mines Met	Bulletin, University of Missouri School of Mines and Metallurgy
Bull Wash State Inst Technol	Bulletin of the Washington State Institute of Technology

C

Calore	Calore
Can Mach Prod	Canada's Machine Production
Can Ceram Soc J	Canadian Ceramic Society Journal
Can Chem Process	Canadian Chemical Processing
Can J Chem Eng	Canadian Journal of Chemical Engineering
Can J Chem	Canadian Journal of Chemistry
Can J Phys	Canadian Journal of Physics
Can Mach Manuf News	Canadian Machinery and Manufacturing News
Can Mach Metalworking	Canadian Machinery and Metalworking
Can Met Quart	Canadian Metallurgical Quarterly
Can Metalworking	Canadian Metalworking
Can Mining Met Bull	Canadian Mining and Metallurgical Bulletin
Can Mining J	Canadian Mining Journal
Can Mining Manual	Canadian Mining Manual
Can Oper Res Soc Newslett	Canadian Operational Research Society Newsletter
Can Weld Fabr	Canadian Welder and Fabricator
Cast Iron Pipe News	Cast Iron Pipe News
Cast Metals Res Quart	Cast Metals Research Quarterly
Castings	Castings
Ceram Age	Ceramic Age
Ceram Ind	Ceramic Industry
Ceramics	Ceramics
Chaleur Ind	Chaleur et Industrie
Chartered Mech Eng	Chartered Mechanical Engineer
Chem Age	Chemical Age
Chem Eng News	Chemical and Engineering News
Chem Engineer	Chemical Engineer
Chem Eng	Chemical Engineering
Chem Eng Progr	Chemical Engineering Progress
Chem Phys Lett	Chemical Physics Letters
Chem Prod	Chemical Products
Chem Rev	Chemical Reviews
Chem Week	Chemical Week
Chem Listy	Chemicke Listy
Chem Prumysl	Chemicky Prumysl
Chem Labor Betr	Chemie fur Labor und Betrieb
Chem Ing Tech	Chemie-Ingenieur-Technik
Chem Zeitung/Chem App	Chemiker Zeitung/Chemische Apparatur
Chem Ind (Ger)	Chemische Industrie
Chem Rundsch	Chemische Rundschau
Chem Tech	Chemische Technik
Chem Anal	Chemist Analyst
Chem Ind (Engl)	Chemistry and Industry
Chem Can	Chemistry in Canada
Chicago Purchaser	Chicago Purchaser
Chimia	Chimia
Chim Ind (Fr)	Chimie et Industrie (France)
Chim Chron	Chimika Chronika
Chin J Phys	Chinese Journal of Physics
Chrome Dur	Chrome Dur
Cienc Tec Soldadura	Ciencia y Tecnica de la Soldadura
CIRP Ann	CIRP-Annalen
CNRM (Centre Nat Rech Met)	C. N. R. M. (Centre National de Recherches Metallurgiques)
Cobalt (Engl Ed)	Cobalt (English Edition)
Colo Sch Mines Miner Ind Bull	Colorado School of Mines Mineral Industries Bulletin
Columbia Eng Quart	Columbia Engineering Quarterly
Compt Rend Acad Bulgare Sci	Comptes Rendus de l'Academie Bulgare des Sciences
Compt Rend Acad Sci (Pure Appl Mech Sect Pure Appl Phys Sect)	Comptes Rendus de l'Academie des Sciences (Pure & Applied Mechanics Section, Pure & Applied Physics Section)
Constr Masini	Constructia de Masini
Constructiematerialen	Constructiematerialen
Constr Spec	Construction Specifier
Consum Ind Packaging	Consumer and Industrial Packaging
Contemp Phys	Contemporary Physics
Contr Eng	Control Engineering
Copper	Copper
Copper Brass Bull	Copper and Brass Bulletin
Corrosion	Corrosion
Corros Trait Prot Finition	Corrosion: Traitements-Protection-Finition
Corros Prevent Contr	Corrosion Prevention and Control
Corros Sci	Corrosion Science
Crucible Titanium Rev	Crucible Titanium Review
Cryog Inform Rep	Cryogenic Information Report
Cryogenics	Cryogenics
Cuivre Laitons Alliages	Cuivre-Laitons-Alliages
Curr Eng Pract	Current Engineering Practice
Cut Tool Eng	Cutting Tool Engineering
Czech Heavy Ind	Czechoslovak Heavy Industry
Czech J Phys	Czechoslovak Journal of Physics
Czech Mot Rev	Czechoslovak Motor Review

D

Demag News	Demag News
Design	Design
Design Eng	Design Engineering
Design News	Design News
Deut Eisenbahn Tech	Deutsche Eisenbahn Technik
Deut Farben Z	Deutsche Farben Zeitschrift
DEW Tech Ber	DEW Technische Berichte
Diamond Data	Diamond Data
Die Cast Met Mould	Die Casting and Metal Moulding
Die Cast Eng	Die Casting Engineer
Dow Diamond	Dow Diamond
Dow Metal Prod News	Dow Metal Products News
Draht	Draht
Drop Forg Top	Drop Forging Topics

E

Egypt Acad Sci Proc	Egyptian Academy of Sciences Proceedings
Eisenbahn Ingenieur	Eisenbahn Ingenieur
Elec Design News	Electrical Design News

Elec J	Electrical Journal
Elec Rev	Electrical Review
Elec Times	Electrical Times
Electrochem Technol	Electrochemical Technology
Electrochim Acta	Electrochimica Acta
Electrometalia	Electrometalia
Electron/Electromech Prod	Electronic/Electromechanical Production
Electron Design	Electronic Design
Electron Eng	Electronic Engineering
Electron News	Electronic News
Electron Tech	Electronic Technician
Electro Technol	Electronic Technology
Electronics	Electronics
Electroplating (India)	Electroplating (India)
Electroplating Metal Finish	Electroplating and Metal Finishing
Electro Technol	Electro-Technology
Elektrie	Elektrie
Elektro Anz	Elektro Anzeiger
Elektron Rundsch	Elektronische Rundschau
Elektrotech Maschinenbau	Electrotechnik und Maschinenbau
Energia Ind	Energia Industrial
Energia Nucl	Energia Nucleare
Energie	Energie
Engelhard Ind Tech Bull	Engelhard Industries, Inc. Technical Bulletin
Eng Mineracao Met	Engenharia, Mineracao e Metallurgia
Engineer	Engineer
Engineer (West Elec)	Engineer (Western Electric)
Eng Foundryman	Engineer and Foundryman
Engineering (London)	Engineering (London)
Eng Mining J	Engineering and Mining Journal
Eng Mater Design	Engineering Materials and Design
Eng Dig	Engineers Digest
Engl Elec J	English Electric Journal
Equip Mec	l' Equipment Mecanique
Erdol Kohl	Erdol und Kohle
Exp Mech	Experimental Mechanics
Explosivstoffe	Explosivstoffe

F

Factory	Factory
Factory Plant	Factory and Plant
Farbe Lack	Farbe und Lack
Fasteners	Fasteners
Fertigungstech Betrieb	Fertigungstechnik und Betrieb
Fette Seifen Anstrichmittel	Fette-Seifen-Anstrichmittel
Fiat Tech Bull	Fiat Technical Bulletin
Finish	Finish
Fiz Metal Metalloved	Fizika Metallov i Metallovedenie
Fonderia	Fonderia
Fonderia Ital	Fonderia Italiana
Fonderie	Fonderie
Fonderie Belge	Fonderie Belge
Fondeur Aujourd'hui	Fondeur d'Aujourd'hui
Forsch Fortschr	Forschungen und Fortschritte
Forschungsber Landes Nordheim-Westfahlen	Forschungsberichte des Landes Nordheim-Westfahlen
Foseco Develop	Foseco Developments
Foseco Foundry Pract	Foseco Foundry Practice
Foundry	Foundry
Foundry Trade J	Foundry Trade Journal
Franklin Inst Quart	Franklin Institute Quarterly
Freiberger Forsch	Freiberger Forschungshefte
Frequenz	Frequenz
Fuji Iron Steel Tech Rep	Fuji Iron and Steel Technical Reports

G

Galvano	Galvano
Galvanotechnica	Galvanotechnica
Gaswarme	Gaswarme
GEC J Sci Technol	G. E. C. Journal of Science and Technology
Genie Chim	Genie Chimique
Genie Civil	Genie Civil
Giesserei	Giesserei
Giesserei Praxis	Giesserei-Praxis
Giessereitechnik	Giessereitechnik
Gieterijcentrum	Gieterijcentrum
Gjuteriet	Gjuteriet
Glas Email Keram Tech	Glas-Email-Keramo-Technik
Glass Technol	Glass Technology
Glastech Ber	Glastechnische Berichte
Gluckauf	Gluckauf
Gray Ductile Iron News	Gray and Ductile Iron News
Grind Finish	Grinding and Finishing
Gov Mech Lab J	Government Mechanical Laboratory Journal

H

HAL Tech Soc Dig	HAL Technical Society Digest
Harterei Tech Mitt	Harterei-Technischen Mitteilungen
Helv Chim Acta	Helvetica Chimica Acta
Helv Phys Acta	Helvetica Physica Acta
High Temp	High Temperature
Hilger J	Hilger Journal
Hitachi Hyoron	Hitachi-Hyoron
Hitachi Rev	Hitachi Review
Holz Als Roh Werkst	Holz Als Roh-und Werkstoff
Hutnicke Listy	Hutnicke Listy
Hutnik (Czech)	Hutnik (Czech)
Hutnik (Pol)	Hutnik (Poland)

I

IBM J Res Develop	IBM Journal of Research Development
IEEE Spectrum	IEEE Spectrum
IEEE Trans Electron Devices	IEEE Transactions on Electron Devices
IEEE Trans Nucl Sci	IEEE Transactions on Nuclear Science
IEEE Trans Sonics Ultrasonics	IEEE Transactions on Sonics and Ultrasonics
IMONO	IMONO
Inco Corros Rep	Inco Corrosion Reporter
Inco Nickel Top	Inco Nickel Topics
Inco-Mond Nickel	Inco-Mond Nickel
Indian East Eng	Indian and Eastern Engineer
Indian Ceram	Indian Ceramics
Indian Chem Eng	Indian Chemical Engineer
Indian J Chem	Indian Journal of Chemistry
Indian J Pure Appl Phys	Indian Journal of Pure and Applied Physics
Indian J Technol	Indian Journal of Technology
Indian Mach Tools J	Indian Machine Tools Journal
Indian Miner	Indian Minerals
Ind Mineraria	Industria Mineraria
Ind Quimica	Industria y Quimica
Ind Eng Chem Process Des Develop	Industrial and Engineering Chemistry, Process Design and Development
Ind Eng Chem Prod Res Develop	Industrial and Engineering Chemistry, Product Research and Development
Ind Eng Chem Fundam	Industrial and Engineering Chemistry Fundamentals
Ind Eng Chem J	Industrial and Engineering Chemistry Journal
Ind Process Heat	Industrial and Process Heating
Ind Appl Nucl Energy	Industrial Applications of Nuclear Energy
Ind Diamond Rev	Industrial Diamond Review
Ind Electron	Industrial Electronics
Ind Finish (London)	Industrial Finishing (London)
Ind Finish (US)	Industrial Finishing (U. S.)
Ind Gas	Industrial Gas
Ind Heating	Industrial Heating
Ind Lab	Industrial Laboratory
Ind Lubric	Industrial Lubrication
Ind Res	Industrial Research
Ind Aliment	Industrie Alimentari
Ind Anz	Industrie-Anzeiger
Ind Ceram (Fr)	l' Industrie Ceramique (France)
Ind Chim Phosphate	l' Industrie Chimique, Le Phosphate
Ind Chim Belge	Industrie Chimique Belge
Ind Petrol	l' Industrie du Petrole
Ind Franc Achats Entretien	l' Industrie Francaise-Achats et Entretien
Ingegnere	l' Ingegnere
Ing Meccanica	Ingegneria Mecannica
Ing Ind	Ingenieria e Industria
Ing Quimica	Ingenieria Quimica
Ingenieur	l' Ingenieur
Ing Auto	Ingenieurs de L'Automobile
Ingenioren	Ingenioren

Inorg Chem	Inorganic Chemistry
Inst Fr Petrol Rev	l' Institut Francais de Petrole Revue
Inst Eng Aust, Elect Mech Eng J	Institution of Engineers, Australia, Electrical and Mechanical Engineering Journal
Inst Eng Aust, Elec Mech Eng Trans	Institution of Engineers, Australia, Electrical and Mechanical Engineering Transactions
Instrum Eng	Instrument Engineer
Instrum Pract	Instrument Practice
Instrum Rev	Instrument Review
Instrum Soc Amer Trans	Instrument Society of American Transactions
Instrumentation	Instrumentation
Instrum Technol	Instrumentation Technology
Instrum Contr Syst	Instruments and Control Systems
Instrum Lab	Instruments et Laboratoires
Interceram	Interceram
Int J Appl Radiat Isotop	International Journal of Applied Radiation and Isotopes
Int J Contr	International Journal of Control
Int J Electron	International Journal of Electronics
Int J Fracture Mech	International Journal of Fracture Mechanics
Int J Heat Mass Transfer	International Journal of Heat and Mass Transfer
Int J Mach Tool Design Res	International Journal of Machine Tool Design and Research
Int J Mech Sci	International Journal of Mechanical Sciences
Int J Solids Struct	International Journal of Solids and Structures
Int Plast Eng	International Plastics Engineering
Int Shipbuild Progr	International Shipbuilding Progress
Int Z Elektrowarme	Internationale Zeitschrift fur Elektrowarme
Ion	Ion
Iron Steel	Iron and Steel
Iron Steel Eng	Iron and Steel Engineer
Iron Steel Inst Spec Rep	Iron and Steel Institute Special Reports
Iron Age	Iron Age
Iron Age Metalworking Int	Iron Age Metalworking International
Israel J Technol	Israel Journal of Technology
Istanbul Tek Univ Bul	Istanbul Teknik Universitesi Bulteni
Izv Akad Nauk SSSR Met Gornoe Delo	Izvestiya Akademii Nauk SSSR-Metallurgiya i Gornoe Delo
Izv VUZ Chern Met	Izvestiya VUZ--Chernaya Metallurgiya
Izv VUZ Tsvet Met	Izvestiya VUZ--Tsvetnaya Metallurgiya

J

JL Explorer	J & L Explorer
Jap Chem Quart	Japan Chemical Quarterly
Jap R D Inform	Japan R. and D. Information
Jap Steel Works Tech News	Japan Steel Works Technical News
Jap Corros Eng	Japanese Corrosion Engineering
Jap J Appl Phys	Japanese Journal of Applied Physics
Jernkontorets Ann	Jernkontorets Annaler
J Acoust Soc Amer	Journal of the Acoustical Society of America
J Amer Ceram Soc	Journal of the American Ceramic Society
J Amer Chem Soc	Journal of the American Chemical Society
J Amer Inst Aeronaut	Journal of the American Institute of Aeronautics and Astronautics
J Amer Inst Chem Eng	Journal of the American Institute of Chemical Engineers
J Amer Waterworks Assoc	Journal of the American Waterworks Association
J Appl Chem	Journal of Applied Chemistry
J Appl Mech	Journal of Applied Mechanics
J Appl Phys	Journal of Applied Physics
J Appl Polymer Sci	Journal of Applied Polymer Science
J Aust Inst Metals	Journal of the Australian Institute of Metals
J Basic Eng	Journal of Basic Engineering
J Birmingham Met Soc	Journal of the Birmingham Metallurgical Society
J Brit Inst Radio Eng	Journal of the British Institution of Radio Engineers
J Chem Eng Data	Journal of Chemical and Engineering Data
J Chem Phys	Journal of Chemical Physics
J Chem Soc	Journal of the Chemical Society
J Chem UAR	Journal of Chemistry of the U. A. R.
J Chim Phys	Journal de Chimie Physique
J Compos Mater	Journal of Composite Materials
J Electroanal Chem	Journal of Electroanalytical Chemistry
J Electrochem Soc	Journal of the Electrochemical Society
J Electrochem Soc Jap	Journal of the Electrochemical Society of Japan
J Electronmicrosc	Journal of Electronmicroscopy
J Eng Educ	Journal of Engineering Education
J Eng Ind	Journal of Engineering for Industry
J Fac Eng Univ Tokyo	Journal of the Faculty of Engineering, University of Tokyo
J Four Elec Ind Electrochim	Journal du Four Electrique et des Industries Electrochimiques
J Franklin Inst	Journal of the Franklin Institute
J Heat Transfer	Journal of Heat Transfer
J Indian Chem Soc	Journal of the Indian Chemical Society
J Inorg Nucl Chem	Journal of Inorganic and Nuclear Chemistry
J Inst Fuel	Journal of the Institute of Fuel
J Inst Metals	Journal of the Institute of Metals
J Inst Petrol	Journal of the Institute of Petroleum
J Inst Eng Aust	Journal of the Institution of Engineers, Australia
J Inst Eng (India)	Journal of the Institution of Engineers (India)
J Iron Steel Inst	Journal of the Iron and Steel Institute
J Junior Inst Eng	Journal of the Junior Institution of Engineers
J Less Common Metals	Journal of the Less-Common Metals
J Mater	Journal of Materials
J Mech Eng Sci	Journal of Mechanical Engineering Science
J Mech Phys Solids	Journal of the Mechanics and Physics of Solids
J Metal Finish Soc Jap	Journal of the Metal Finishing Society of Japan
J Met Club	Journal of the Metallurgical Club
J Metals	Journal of Metals
J Microsc	Journal de Microscopie
J Nucl Mater	Journal of Nuclear Materials
J Oil Colour Chem Assoc	Journal of the Oil and Colour Chemists' Association
J Opt Soc Amer	Journal of the Optical Society of America
J Paint Technol	Journal of Paint Technology
J Petrol Technol	Journal of Petroleum Technology
J Phys Chem	Journal of Physical Chemistry
J Phys Soc Jap	Journal of the Physical Society of Japan
J Phys Chem Solids	Journal of Physics and Chemistry of Solids
J Physique	Journal de Physique
J Plast Inst	Journal of the Plastics Institute
J Prakt Chem	Journal fur Praktische Chemie
J Rech Centre Nat Rech Sci	Journal des Recherches du Centre Nationale de la Recherche Scientifique
J Roy Aeronaut Soc	Journal of the Royal Aeronautical Society
J Roy Microsc Soc	Journal of the Royal Microscopical Society
J Sci Hiroshima Univ	Journal of Science of the Hiroshima University
J Sci Ind Res	Journal of Scientific and Industrial Research
J Sci Instrum	Journal of Scientific Instruments
J Soc Mater Sci Jap	Journal of the Society of Materials Science, Japan
J Soc Plast Eng	Journal of the Society of Plastics Engineers
J S Afr Inst Mining Met	Journal of the South African Institute of Mining and Metallurgy
J Spacecraft Rockets	Journal of Spacecraft and Rockets
J Technol	Journal of Technology
J Vac Sci Technol	Journal of Vacuum Science and Technology
J W Scot Iron Steel Inst	Journal of the West of Scotland Iron and Steel Institute

K

Kaiser Alum News	Kaiser Aluminum News

Kaltetechnik	Kaltetechnik
Kansai Univ Tech Rep	Kansai University Technical Reports
Kem Ind (Yugosl)	Kemija i Industrija (Yugoslavia)
Kernenergie	Kernenergie
Kerntechnik	Kerntechnik
Kolloid Z	Kolloid Zeitschrift
Konst Ternaran Met Syst	Konstitution der Ternaren Metallischen Systeme
Korose Ochrana Mater	Korose a Ochrana Materialu
Korrosion	Korrosion
Kovo Export	Kovo Export
Kovove Mater	Kovove Materialy
Kristall Tech	Kristall und Technik
Krupp Tech Rev	Krupp Technical Review
Kristallografiya	Kristallografiya
Kyoto Univ Inst Chem Res Publ	Kyoto University Institute for Chemical Research Publications
Kunstoffe	Kunstoffe
Kuznechno Shtampovochnoe Proizv	Kuznechno-Shtampovochnoe Proizvodstvo
	L
Lab Pract	Laboratory Practice
Lastechniek	Lastechniek
Lead	Lead
Light Metal Age	Light Metal Age
Light Metals (Tokyo)	Light Metals (Tokyo)
Light Metals Intel	Light Metals Intelligence
Liteinoe Proizv	Liteinoe Proizvodstvo
Lockheed Georgia Quart	Lockheed Georgia Quarterly
Lockheed Missiles Space Publ	Lockheed Missiles and Space Company Publications
	M
Macchine	Macchine
Mach Tool Blue Book	Machine and Tool Blue Book
Mach Design	Machine Design
Mach Mod	Machine Moderne
Mach Shop	Machine Shop
Machinery (London)	Machinery (London)
Machinery (N Y)	Machinery (New York)
Mach Lloyd	Machinery Lloyd
Mach Market	Machinery Market
Mag Stand	Magazine of Standards
Magnafacts	Magnafacts
Magnesium Prod	Magnesium Products
Magy Kem Folyoirat	Magyar Kemiai Folyoirat
Magy Kem Lapja	Magyar Kemikusok Lapja
Makromol Chem	Makromolekular Chemie
Maschinenbau	Maschinenbau
Maschinenbautechnik	Maschinenbautechnik
Mass Prod	Mass Production
Materialprufung	Materialprufung
Mater Eng	Materials Engineering
Mater Evaluation	Materials Evaluation
Mater Handl Eng	Materials Handling Engineering
Mater Protect	Materials Protection
Mater Res Stand	Materials Research and Standards
Mater Sci Eng	Materials Science and Engineering
Mec Elec	Mecanique Electricite
Mech Eng	Mechanical Engineering
Mech World Eng Rec	Mechanical World and Engineering Record
Mem Sci Rev Met	Memoires Scientifiques de la Revue de Metallurgie
Mem Soc Ing Civils Fr	Memoires de la Societe des Ingenieurs Civils de France
Mem Fac Eng Kumamoto Univ	Memoirs of the Faculty of Engineering, Kumamoto University
Mem Fac Eng Kyoto Univ	Memoirs of the Faculty of Engineering, Kyoto University
Mem Fac Eng Kyushu Univ	Memoirs of the Faculty of Engineering, Kyushu University
Mem Fac Eng Nagoya Univ	Memoirs of the Faculty of Engineering, Nagoya University
Mem Fac Eng Osaka City Univ	Memoirs of the Faculty of Engineering, Osaka City University
Mem Fac Technol Tokyo Metrop Univ	Memoirs of the Faculty of Technology, Tokyo Metropolitan University
Mem Inst Sci Ind Res Osaka Univ	Memoirs of the Institute of Scientific and Industrial Research, Osaka University
Messe Kurier	Messe-Kurier
Metaalbewerking	Metaalbewerking
Metal Cuttings	Metal Cuttings
Metal Finish	Metal Finishing
Metal Finish J	Metal Finishing Journal
Metal Forming	Metal Forming
Metal Mining Process	Metal Mining and Processing
Metal Powder Ind Fed Proc	Metal Powder Industries Federation Proceedings
Metal Powder Rep	Metal Powder Report
Metal Prod Manuf	Metal Products Manufacturing
Metal Progr	Metal Progress
Metal Sci Heat Treat Metals	Metal Science and Heat Treatment of Metals
Metal Sci J	Metal Science Journal
Metal Stamping	Metal Stamping
Metal Treating	Metal Treating
Metalen	Metalen
Metall	Metall
Metallen	Metallen
Metalloberflache	Metalloberflache
Metalloved Term Obrabotka Metall	Metallovedenie i Termicheskaya Obrabotka Metallov
Metall Reining Vorbehandl	Metall-Reinigung und Vorbehandlung
Metallurgia	Metallurgia
Constr Masini	Metallurgia Si Constructia de Masini
Met Ital	Metallurgia Italiana
Met Constr Mec	Metallurgie et la Construction Mecanique
Metallurgist (N Y)	Metallurgist (New York)
Metals	Metals
Metals Mater	Metals and Materials
Metals Eng Quart	Metals Engineering Quarterly
Metalscope	Metalscope
Metalurgia	Metalurgia
Metalurgia ABM	Metalurgia-ABM
Met Elec (Spain)	Metalurgia y Electricidad (Spain)
Metalworking	Metalworking
Metalworking News	Metalworking News
Metalworking Prod	Metalworking Production
Metaux Corros Ind	Metaux-Corrosion-Industries
Metrologia	Metrologia
Microtechnic	Microtechnic
Mikrochim Acta	Mikrochimica Acta
Mill Factory	Mill and Factory
Miner Ind J	Mineral Industries Journal
Miner Res Explor Inst Bull	Mineral Research and Exploration Institute Bulletin
Miner Process	Minerals Processing
Miner Met	Mineria y Metalurgie
Mines Met	Mines et Metallurgie
Mines Mag	Mines Magazine
Mining Chem Eng Rev	Mining and Chemical Engineering Review
Mining Met Quart	Mining and Metallurgy Quarterly
Mining Miner Eng	Mining and Minerals Engineering
Mining Congr J	Mining Congress Journal
Mining Elec Mech Eng	Mining Electrical and Mechanical Engineer
Mining Eng	Mining Engineering
Mining J	Mining Journal
Mining Mag	Mining Magazine
Missiles Space	Missiles and Space
Mod Cast	Modern Castings
Mod Mach Shop	Modern Machine Shop
Mod Metals	Modern Metals
Mod Plast	Modern Plastics
Monatsber Deut Akad Wiss	Monatsberichte der Deutschen Akademie der Wissenschaften zu Berlin
Monatsh Chem	Monatshefte fur Chemie
	N
Nachrichtentech Z	Nachrichtentechnische Zeitschrift
Nat Met Lab Tech J	National Metallurgical Laboratory Technical Journal
Nat Res Counc Bull (Can)	National Research Council Bulletin Canada
Nature (Engl)	Nature (England)
Nature (Fr)	Nature (France)
Naturwissenschaften	Naturwissenschaften
Neue Hutte	Neue Hutte
New Scientist	New Scientist
New Zeal Eng	New Zealand Engineering

New Zeal J Sci	New Zealand Journal of Science
News Eng (OSU)	News in Engineering (Ohio State University
Nickel	Nickel
Nighoffs Verfkroniek	Nighoffs Verfkroniek
Nippon Kokan Tech Rep	Nippon Kokan Technical Report
Non Ferrous Metals	Non-Ferrous Metals
Norelco Rep	Norelco Reporter
Nucl Appl	Nuclear Applications
Nucl Energy	Nuclear Energy
Nucl Eng	Nuclear Engineering
Nucl Sci Eng	Nuclear Science and Engineering
Nucl Struct Eng	Nuclear Structural Engineering
Nucleonics	Nucleonics
Nuovo Cimento	Nuovo Cimento

O

Obrobka Plast	Obrobka Plastyczna
Oerlikon Schweissmitt	Oerlikon Schweissmittelungen
Offic Dig	Official Digest
Oil Gas J	Oil and Gas Journal
Opt Spectrosc	Optics and Spectroscopy
Optik	Optik
Osaka Univ Fac Eng Tech Rep	Osaka University Faculty of Engineering, Technology Reports
Oesterr Chem Zeitung	Oesterreichische Chemiker-Zeitung
Oesterr Ing Z	Oesterreichische Ingenieur Zeitschrift

P

Paint Technol	Paint Technology
Pakistan J Sci Ind Res	Pakistan Journal of Scientific and Industrial Research
Peintures Pigments Vernis	Peintures, Pigments, Vernis
Period Polytech	Periodica Polytechnica
Petro Chem Eng	Petro/Chem Engineer
Petrol Manage	Petroleum Management
Philippine Iron Steel J	Philippine Iron and Steel Journal
Philips Res Rep	Philips Research Reports
Philips Tech Rev	Philips Technical Review
Phil Mag	Philosophical Magazine
Phil Trans Roy Soc London	Philosophical Transactions of the Royal Society of London
Physica	Physica
Phys Status Solidi	Physica Status Solidi
Phys Rev	Physical Review
Phys Rev Lett	Physical Review Letters
Phys Soc Bull	Physical Society Bulletin
Phys Lett	Physics Letters
Phys Metals Metallogr	Physics of Metals and Metallography
Phys Today	Physics Today
Phys Abhandl Sowjetunion	Physikalische Abhandlungen aus der Sowjetunion
Phys Bl	Physikalische Blatter
Pipe Line Ind	Pipe Line Industry
Pipes Pipelines	Pipes and Pipelines
Pitture Vernici	Pitture e Vernici
Planseeber Pulvermet	Planseeberichte fur Pulvermetallurgie
Plaste Kautschuk	Plaste und Kautschuk
Plastica	Plastica
Plat Mag	Plating Magazine
Plat Manag	Plating Management
Platinum Metals Rev	Platinum Metals Review
Pol Tygodnik Lekarski	Polski Tygodnik Lekarski
Polytech Tijdschr	Polytechnisch Tijdschrift
Poroshkovaya Met	Poroshkovaya Metallurgia
Powder Met Quart	Powder Metallurgy Quarterly
Powder Technol	Powder Technology
Prace Inst Hutniczych	Prace Instytutow Hutniczych
Prakt Metallogr	Praktische Metallographie
Prat Ind Mec	Pratiques des Industries Mecaniques
Precision Metal Mold	Precision Metal Molding
Proc Amer Electroplaters Soc	Proceedings of the American Electroplaters Society
Proc Amer Petrol Inst	Proceedings of the American Petroleu Institute
Proc Amer Soc Civil Eng	Proccedings of the American Society of Civil Engineers
Proc Amer Soc Test Mater	Proceedings of the American Society for Testing and Materials
Proc Australas Inst Mining Met	Proceedings of the Australasian Institute of Mining and Metallurgy
Proc Cambridge Phil Soc	Proceedings of the Cambridge Philosophical Society
Proc Ind Acad Sci	Proceedings of the Indian Academy of Sciences
Proc Inst Elec Eng	Proceedings of the Institution of Electrical Engineers
Proc Inst Mech Eng	Proceedings of the Institution of Mechanical Engineers
Proc Jap Acad	Proceedings of the Japan Academy
Proc Phys Soc	Proceedings of the Physical Society
Proc Roy Soc	Proceedings of the Royal Society
Proc S Wales Inst Eng	Proceedings of the South Wales Institute of Engineers
Process Contr Automat	Process Control and Automation
Prod Eng	Product Engineering
Prod Finish	Product Finishing
Production	Production
Prod Engineer	Production Engineer
Prod Equip	Production Equipment
Products Finish	Products Finishing
Progr Mater Sci	Progress in Materials Science
Progr Theor Phys (Kyoto) Suppl	Progress in Theoretical Physics (Kyoto) Supplement
Pro Metal	Pro-Metal
Przegl Odlewnictwa	Przeglad Odlewnictwa
Przegl Spawalnictwa	Przeglad Spawalnictwa
Publ Sci Tech Min Air	Publications Scientifiques et Techniques du Ministere de l'Air
Pure Appl Chem	Pure and Applied Chemistry

Q

Quart Colo Sch Mines	Quarterly of the Colorado School of Mines
Quart Rev Sci Publ	Quarterly Review of Scientific Publications

R

Radex Rundsch	Radex Rundschau
Rame	(Il) Rame
Rass Chim	Rassegna Chimica
Reactor Sci Tech	Reactor Science and Technology
Rech Aeronaut	Recherche Aeronautique
Rec Trav Chim Pays Bas	Recueil des Travaux Chimique des Pays Bas
Ref J	Refractories Journal
Refrattari	Refrattari
Rendiconti (Milan)	Rendiconti (Milan)
Rendiconti (Rome)	Rendiconti (Rome)
Rensselaer Eng	Rensselaer Engineer
Rep Inst Ind Sci Univ Tokyo	Report of the Institute of Industrial Science, University of Tokyo
Rep Cast Res Lab Waseda Univ	Reports of the Castings Research Laboratory, Waseda University
Rep Gov Ind Res Inst	Reports of the Government Industrial Research Institute
Res Ind	Research and Industry
Rev Pol Acad Sci	Review of the Polish Academy of Sciences
Rev Sci Instrum	Review of Scientific Instruments
Rev Mod Phys	Reviews of Modern Physics
Rev Chim	Revista de Chimie
Rev Cienc Apl	Revista de Ciencia Aplicada
Rev Fac Cienc Quim	Revista de la Facultad de Ciencias Quimicas
Rev Latinoamer Siderurgia	Revista Latinoamericana de Siderurgia
Rev Met	Revista de Metalurgia
Rev Mex Fis	Revista Mexicana de Fisica
Rev Univ Ind Santander	Revista de la Universidad Industrial de Santander
Rev Alum	Revue de l'Aluminium
Rev Chim Miner	Revue de Chimie Minerale
Rev Fr Corps Gras	Revue Francaise Des Corps Gras
Rev Gen Mec Elec	Revue Generale de Mecanique Electricite
Rev Gen Therm	Revue Generale de Thermique
Rev Hautes Temp Refract	Revue des Hautes Temperatures et des Refractaires
Rev Ind Miner	Revue de l'Industrie Minerale
Rev Mater Constr Trav	Revue des Materiaux de Construction

Publ	et de Travaux Publiques
Rev Mec	Revue de Mecanique
Rev Mec Appl	Revue de Mecanique Appliquee
Rev Met	Revue de Metallurgie
Rev Nickel	Revue du Nickel
Rev Phys (Rum)	Revue de Physique (Rumania)
Rev Prat Froid	Revue Pratique du Froid
Rev Quest Sci	Revue des Questions Scientifiques
Rev Roum Chim	Revue Roumaine Chimie
Rev Roum Met	Revue Roumaine de Metallurgie
Rev Soc Roy Belge Ing Ind	Revue de la Societe Royale Belge des Ingenieurs et des Industriels
Rev Soudure Lastijdsch	Revue de la Soudure-Lastijdschrift
Rev Suisse Alum	Revue Suisse de l'Aluminium
Rev Tech Luxemb	Revue Technique Luxembourgeoise
Rev Universelle Mines Met Mec	RevueUniverselle des Mines, de la Metallurgie, de la Mecanique
Ric Sci	Ricerca Scientifica
Riv Ital Saldatura	Revista Italiana Della Saldatura
Riv Mecc	Rivista di Meccanica
Rozpr Inz	Rozprawy Inzynierskie
Rudarsko Met Zb	Rudarsko-Metalurski Zbornik
Russ Cast Prod	Russian Castings Production
Russ Met Mining	Russian Metallurgy and Mining
	S
SAE J	SAE Journal
Saldatura Autogena	Saldatura Autogena
Sbornik	Sbornik
Schiffbau Tech	Schiffbau Technik
Schleif Poliertech	Schlief und Poliertechnik
Schweissen Schneiden	Schweissen und Schneiden
Schweisstechnik	Schweisstechnik
Rev Suisse Alum	Schweizer Aluminum Rundschau
Schweiz Arch Angew Wissensch Tech	Schweizer Archiv fur Angewandte Wissenschaft und Technik
Science	Science
Sci Cult	Science and Culture
Sci Eng	Science and Engineering
Sci Technol	Science and Technology
Sci Rep Res Inst Tohoku Univ	Science Reports of the Research Institutes, Tohoku University
Sci Tech Armement	Sciences et Techniques de l'Armemer
Sci Sinica	Scientia Sinica
Sci Amer	Scientific American
Sci Pap Inst Phys Chem Res (Tokyo)	Scientific Papers of the Institute of Physical and Chemical Research (Tokyo)
Seifen Ole Fette Wachse	Seifen, Ole, Fette, Wachse
Semicond Prod	Semiconductor Products
Sheet Metal Ind	Sheet Metal Industries
Siemens Rev	Siemens Riview
Siemens Z	Siemens Zeitschrift
Silicates Ind	Silicates Industries
Silikattechnik	Silikattechnik
Slevarenstvi	Slevarenstvi
Smit Meded	Smit-Mededelingen
SNTL Tech Dig	SNTL Technical Digest
Sofresid	Sofresid
Solid State Commun	Solid-State Communications
Solid State Electron	Solid-State Electronics
Soudage Tech Connexes	Soudage et Techniques Connexes
S Afr Eng	South African Engineer
S Afr Ind Chem	South African Industrial Chemist
S Afr Mech Eng	South African Mechanical Engineer
S Afr Mining Eng J	South African Mining and Engineering Journal
Southern Power Ind	Southern Power and Industry
Sov Phys Crystallogr	Soviet Physics-Crystallography
Sov Phys JETP	Soviet Physics--JETP
Sov Phys Solid State	Soviet Physics--Solid State
Sov Phys Tech Phys	Soviet Physics--Technical Physics
Sov Powder Met Metal Ceram	Soviet Powder Metallurgy and Metal Ceramics
Space Aeronaut	Space/Aeronautics
Spaceflight	Spaceflight
Spec Steel (Tokyo)	Special Steel (Tokyo)
Spectrochim Acta	Spectrochimica Acta
Sperryscope	Sperryscope
Sprechsaal Keram Glas Email	Sprechsaal fur Keramik-Glas-Email
SRI J	SRI Journal
Stahl Eisen	Stahl und Eisen
Stahlbau	Stahlbau
Stainless Steel Architect Quart	Stainless Steel Architectural Quarterly
Stal' (Moscow)	Stal' (Moscow)
Stal Engl	Stal in English
Staub	Staub
Steel	Steel
Steel Facts	Steel Facts
Steel Furnace Month	Steel Furnace Monthly
Steel Horiz	Steel Horizons
Steel Rev	Steel Review
Steel Times	Steel Times
Steelways	Steelways
Strojirenstvi	Strojirenstvi
Struct Eng	Structural Engineer
Stud Cercet Chim	Studii si Cercetari de Chimie
Stud Cercet Mec Apl	Studii si Cercetari de Mecanica Aplicata
Stud Cercet Met	Studii si Cercetari de Metalurgie
STZ Schweiz Tech Z	STZ-Schweizerische Technische Zeitschrift
Sulzer Tech Rev	Sulzer Technical Review
Sumitomo Light Metals Tech Rep	Sumitomo Light Metals Technical Reports
Sumitomo Metals	Sumitomo Metals
Suomen Kem	Suomen Kemistilehti
Surface Sci	Surface Science
Svarochn Proizv	Svarochnoe Proizvodistvo
Svensk Kem Tidskr	Svensk Kemisk Tidskrift
Svetsen	Svetsen
Swiss Tech	Swiss Technics
	T
Tech Eng News	Tech Engineering News
Technica	Technica
Tech Rep Eng Res Inst Kyoto Univ	Technical Reports of the Engineering Research Institute of Kyoto University
Technik	Technik
Tech Betrieb	Technik und Betrieb
Tech Rev	Technion Review
Tech Sci Aeronaut Spatiales	Technique et Science Aeronautiques et Spatiales
Tech Mod	Technique Moderne
Tech Mitt	Technische Mitteilungen
Tech Mitt Krupp Werksber	Technische Mitteilungen Krupp-Werksberichte
Tech Uberwachung	Technische Uberwachung
Technol Rep Osaka Univ Fac Eng	Technology Reports of the Osaka University Faculty of Engineering
Technol Rep Tohoku Univ Fac Eng	Technology Reports of the Tohoku University Faculty of Engineering
Technol Week	Technology Week
Tec Met	Tecnica Metalurgica
Tek Kemian Aikak	Teknillisen Kemian Aikakauslehti
Tek Ukeblad	Teknisk Ukeblad
Teplofiz Vysokikh Temp	Teplofizika Vysokikh Temperatur
Termotecnica	Termotecnica
33 Mag Metals Prod	33-Magazine of Metals Producing
Tidsskr Kjemi Bergvesen Met	Tidsskrift for Kjemi, Bergvesen og Metallurgi
Tidskr Verkstaderna	Tidskriften Verkstaderna
Tin Uses	Tin and Its Uses
Tisco	Tisco
Tokai Technol J	Tokai Technological Journal
Tonind Zeitung Keram Rundsch	Tonindustrie-Zeitung und Keramische Rundschau
Tool Manuf Eng	Tool and Manufacturing Engineer
Tooling Prod	Tooling and Production
Trait Therm	Traitement Thermique
Trait Surface	Traitements de Surface
Trans Amer Foundrymens Soc	Transactions of the American Foundrymen's Society
Trans Amer Soc Mech Eng	Transactions of the American Society of Mechanical Engineering
Trans Amer Soc Metals	Transactions of the American Society for Metals
Trans Brit Ceram Soc	Transactions of the British Ceramic Society
Trans Can Inst Mining Met	Transactions of the Canadian Institute of Mining and Metallurgy
Trans Eng Inst Can	Transactions of the Engineering Institute of Canada

Trans Faraday Soc	Transactions of the Faraday Society
Trans Indian Ceram Soc	Transactions of the Indian Ceramic Society
Trans Indian Inst Metals	Transactions of the Indian Institute of Metals
Trans Inst Metal Finish	Transactions of the Institute of Metal Finishing
Trans Inst Chem Eng (London)	Transactions of the Institution of Chemical Engineers (London)
Trans Iron Steel Inst Jap	Transactions of the Iron and Steel Institute of Japan
Trans Jap Inst Metals	Transactions of the Japan Institute of Metals
Trans Met Soc AIME	Transactions of the Metallurgical Society of AIME
Trans Nat Res Inst Metals (Jap)	Transactions of the National Research Institute for Metals (Japan)
Trans NE Coast Inst Eng Shipbuild	Transactions of the North East Coast Institution of Engineers and Shipbuilders
Trans Plast Inst	Transactions of the Plastics Institute
Trans Soc Mining Eng AIME	Transactions of the Society of Mining Engineers of AIME
Trans Soc Plast Eng	Transactions of the Society of Plastics Engineers
Trans Soc Automot Eng	Transactions of the Society of Automotive Engineers
Trattamenti Met	Trattamenti dei Metalli
Trav Metaux Feuilles	Travail des Metaux en Feuilles
Trempe	Trempe
Tsvetnye Met	Tsvetnye Metally
TZ Prakt Metallbearbeitung	TZ fur Praktische Metallbearbeitung

U

Ultrasonic News	Ultrasonic News
Ultrasonics	Ultrasonics
US Govt Bur Ships J	United States Government Bureau of Ships--Journal
Nat Bur Stand	National Bureau of Standards
Eng Instrum	Engineering and Instrumentation
J Res	Journal of Research
Math Math Phys	Math and Math. Physics
Phys Chem	Physics and Chemistry
Radio Propagation	Radio Propagation
Naval Res Rev	Naval Research Reviews
Power Reactor Technol	Power Reactor Technology
Reactor Mater Quart	Reactor Materials Quarterly
Sci Inform Notes	Scientific Information Notes
Tech News Bull	Technical News Bulletin
US Steel Quart	United States Steel Quarterly
Union Carbide Metals Rev	Union Carbide Metals Review
Usine Nouv	l'Usine Nouvelle

V

Vacuum	Vacuum
Vakuum Tech	Vakuum-Technik
Vectors	Vectors
Ver Deut Ing Ber	Verein Deutscher Ingenieur-Berichte
Ver Deut Ing Z	Verein Deutscher Ingenieur-Zeitschrift
Vide	Vide
Von Roll Mitt	Von Roll Mitteilungen

W

Wear-Usure-Verschleiss	Wear-Usure-Verschleiss
Welder	Welder
Weld Metal Fabr	Welding and Metal Fabrication
Weld Design Fabr	Welding Design and Fabrication
Weld Eng	Welding Engineer
Weld Fabr Design	Welding Fabrication and Design
Weld World	Welding in the World
Weld J	Welding Journal
Weld Prod	Welding Production
Weld Res Counc Rep Progr	Welding Research Council Reports of Progress
Weld Soc J	Welding Society Journal
Werkstatt Betrieb (Engl Transl)	Werkstatt und Betrieb (with English) Translations)
Werkstattstechnik	Werkstattstechnik
West Mach Steel World	Western Machinery and Steel World
West Metalworking	Western Metalworking
Wild Barfield Heat Treat J	Wild-Barfield Heat Treatment Journal
Wire (Eng Ed)	Wire (English Edition)
Wire Wire Prod	Wire and Wire Products
Wire Ind	Wire Industry
Wire World Int	Wire World International
Wiss Z Humbaldt Univ Berlin	Wissenschaftliche Zeitschrift der Humbaldt-Universitat zu Berlin
Wiss Z Martin Luther Univ Halle Witt	Wissenschaftliche Zeitschrift der Martin-Luther-Universitat, Halle-Wittenberg
Wiss Z Tech Hochsch Otto Von Guericke	Wissenschaftlichen Zeitschrift der Technische Hochschule Otto Von Guericke
Wiss Z Tech Hochsch Chem	Wissenschaftliche Zeitschrift der Technischen Hochschuler fur Chemie
World Mining	World Mining
World Oil	World Oil
WSU Technometer	WSU Technometer

Y

Yawata Tech Rep	Yawata Technical Report

Z

Zavodskaya Lab	Zavodskaya Laboratoriya
Z Angew Math Phys	Zeitschrift fur Angewandte Mathematik und Physik
Z Angew Phys	Zeitschrift fur Angewandte Physik
Z Anorg Allg Chem	Zeitschrift fur Anorganische und Allgemeine Chemie
Z Chem	Zeitschrift fur Chemie
Z Elektrochem	Zeitschrift fur Elektrochemie
Z Erzbergbau Metallhuttenw	Zeitschrift fur Erzbergbau und Metallhuttenwesen
Z Instrum	Zeitschrift fur Instrumentenkunde
Z Kristallogr	Zeitschrift fur Kristallographie
Z Metallkunde	Zeitschrift fur Metallkunde
Z Naturforsch	Zeitschrift fur Naturforschung
Z Phys	Zeitschrift fur Physik
Z Phys Chem	Zeitschrift fur Physikalische Chemie
Z Schweisstech J Soudure	Zeitschrift fur Schweisstechnik Journal de la Soudure
Zh Eksp Teor Fiz	Zhurnal Eksperimentalnoi i Teoricheskoi Fiziki
Zvaranie	Zvaranie

INTRODUCTION TO THE INDEX

A few comments on the make-up and philosophy of the subject index will help in its optimum use. Two basic principles are important: First, that it utilizes a thesaurus for control of terminology and, second, that it is prepared by a specially developed computer program that is generally applicable to thesaurus indexing.

THESAURUS PRINCIPLES

ASM has developed a Thesaurus of Metallurgical Terms which parallels the EJC Thesaurus of Engineering Terms. The ASM Thesaurus can therefore be considered as a subset of the EJC Thesaurus, providing more extensive and detailed terminology for metallurgical subjects.

One of the basic principles of any thesaurus is the ability to show term relationships. In the ASM and EJC Thesauri these relationships are of four kinds: synonyms, broad terms (generic), narrow terms (specific), and related terms (relationships that are neither synonymous nor members of a family or hierarchy, but are closely related in concept). Using the term "arc welding" as an example, the following relationships can be conveyed:

Electric Arc Welding—a synonym which in conventional indexing practice would be entered as "Electric arc welding, see Arc welding".

Shielded arc welding—a narrower term to Arc welding.

Welding—a broader term to Arc welding.

Arc brazing—a related term.

Users of the RML index who have access to either the ASM or EJC Thesauri will find them most helpful in leading them to a broad display of index entries pertinent to their search requirements.

COMPUTER PRINCIPLES

One of the important features built into the computer indexing program is the capability of automatically generating "See" and "See also" references traditionally found in good subject indexes.

This capability extends to the synonymous terms, the narrower terms, and a few selected related terms. For example, if a reference is indexed under the term "Arc welding", the computer will automatically generate a printed notation in the proper alphabetical order: "Electric arc welding, see Arc welding" (synonym). It will also simultaneously generate a notation: "Welding, see also Arc welding" (narrower term). (A "See also" notation is printed if there are entries under the main term "Welding"; if there are no entries under "Welding", the notation will be "See Arc welding", as well as any other specific welding terms that are referenced in that issue of the index.)

Another important feature of the computer program, which is a refinement over most computer indexing systems, is the facility for two levels of index entry—a main term plus one subordinate term. This is most helpful when searching under such broad index entries as aluminum, stainless steels, and other generic concepts which are likely to be heavily populated in the index. The subterms as well as the main terms are governed by the thesaurus terminology.

GUIDELINES FOR OPTIMUM USE OF INDEX

In addition to a knowledge of the above two basic principles, some further acquaintance with the indexing procedures will be helpful to the user.

Abstract Numbering System: The abstract serial number as it appears in the index has four constituent parts, as shown in this example: 67-01-M10—57350. The meanings are as follows:

First is a two-digit number indicating the year of the RML volume—67 for 1967.

Second is a two-digit number indicating the month of the RML issue—01 for January, 02 for February, etc.

Third is an alphanumeric combination consisting of the letter M plus two digits. The letter M appears with all abstracts in RML to designate metallurgy and distinguish RML abstracts from those generated by Engineering Index which carry different letters for different disciplines. The two-digit combination indicates the subject section of RML. Thus 10 refers to section 10 on Heat Treating.

Fourth is the serial number uniquely identifying the abstract—57350.

In the body of RML, only the last two segments M10-57350, are shown in the serial number, since the year and month are implicit in the current issue.

Alphabetization: A word-by-word alphabetizing system is used. Thus, a typical sequence is: Heat balance—Heat treatment—Heating equipment. The comma separating main and subordinate terms, however, is regarded as a full stop. Thus, "Aluminum, heating" precedes "Aluminum compounds".

When more than one entry appears under an index heading, the titles are not listed alphabetically by the first word of the title, but rather numerically by the abstract serial number. The total number is taken into account in the numerical sequence. Thus, 67-01-M10-57350 will precede 67-02-M08-58260, and 67-02-M08-58260 will precede 67-02-M10-57483.

Order of Words: Direct rather than inverted terms are used to express compound meanings, thus, "Stainless steels", not "Steels, stainless"; "Austenitic stainless steels", not "Stainless steels, austenitic".

In general, the most specific or precise terms are used for main headings: "Shielded arc welding" rather than simply "Arc welding" or "Welding". A user interested in all types of arc welding, for example, will be led to "Shielded arc welding: by means of a "see" or "see also" reference: "Arc welding, see also Shielded arc welding".

General principles for selecting main headings and subordinate headings: In order to make the index as consistent as possible, a few general rules have been established to guide indexers in determining which concepts to enter as main terms and which as subordinate terms. These rules are not hard and fast, and the indexer is generally guided by the major emphasis of the document.

These rules are based on classifying metallurgical concepts into six categories: **materials, processes, properties, products, forms, influencing factors.** The rules for each are:

A. Materials are always primary terms, with processes performed upon them, their properties or forms (plate, forgings, etc.) entered as subterms.

B. Processes are indexed as primary terms when the main emphasis of the document is on the process, and materials are cited only as examples of the general application of the process. Materials are not used as subterms to processes.

C. Properties follow the same rule as for processes, except that the occasions for using them as primary terms are fewer since they are almost always tied to a material.

D. Products are frequently indexed as primary terms. Processes and properties of the product frequently appear as subterms. When combinations of products and materials occur together, both are often entered as primary terms. When the material primary term requires a subterm because of indexing density, the product may be so used, and vice versa. Decisions as to primary and subterms for combinations of products and materials were left to the discretion of the indexer.

E. Forms (Plate, Wire, Forgings, etc.) are indexed as primary terms only when a number of materials are concerned. Ordinarily the form will apply to a specific material only and is therefore a subterm.

F. Influencing Factors (effect of or effect on) are provided for by special entries in the ASM Thesaurus such as "Temperature effects", "Alloying effects", etc. These terms always appear as subterms and are attached only to processes and properties and not to materials.

AUTHOR INDEX

No special instructions or comments are necessary for use of the author index other than an understanding of the serial number of the abstract as explained above.

SUBJECT INDEX

A C
SEE ALTERNATING CURRENT
ABATEMENT /POLLUTION/
SEE POLLUTION ABATEMENT
ABERRATION
SEE DISTORTION
ABRASION
TESTING FOR WEAR DURING IMPACT AGAINST ABRASIVE SURFACE 67-03 M17-65611
ELECTRON MICROPROBE STUDY OF THE EFFECT OF ABRASION OF THE SURFACE OF ALLOY CRYSTALS 67-06 M17-71031
DESIGN OF AN ABRASION TESTING MACHINE AND THE ABRASION OF CARBON STEELS AT ELEVATED TEMPERATURES 67-06 M17-71737
WEAR MECHANISM OF THE SURFACE OF CU-ZN METAL GROUP IN THE PRESENCE OF MERCURY AND ULTRASONIC VIBRATIONS 67-07 M17-73162
ORBITAL ABRASION SHAPES GRAPHITE ELECTRODES 67-09 M08-76734
ABRASIVE WEAR CAUSED BY GRANULAR MINERAL SOLIDS 67-09 M17-76368
REMOVAL OF ABRADED PARTICLES IN THE WET DRAWING OF COPPER 67-10 M08-78572
SLURRY ABRASION 67-12 M17-82916
ABRASION RESISTANCE
PRACTICAL RECOMMENDATIONS ON THE SELECTION OF WHITE CAST IRONS FOR USE IN CONDITIONS OF ABRASIVE WEAR 67-01 M17-58034
USE OF RADIOACTIVE TRACERS IN STUDYING WEAR OF GRINDING BALLS MADE OF NI-HARD CHROMIUM NICKEL CAST IRON 67-01 M17-58371
ROPE WIRE FOR TODAYS APPLICATIONS 67-02 M17-59011
THE ABRASION RESISTANCE OF SOME HARDENED AND TEMPERED CARBON STEELS 67-02 M17-59431
INVESTIGATION OF THE POSSIBILITY OF USING TITANIUM ALLOYS FOR SURGICAL INSTRUMENTS AND APPARATUS AND METHODS FOR JOINING TISSUES 67-02 M17-59900
WEAR MEASUREMENTS ON COATINGS OF METALLIC SURFACES 67-02 M17-60511
INVESTIGATION OF ABRASIVE RESISTANCE OF NEW MATERIALS 67-02 M17-60980
STABILITY AND WORK HARDENING OF NICKEL-BASE ALLOYS IN EROSION CONDITIONS 67-02 M17-61219
INVESTIGATION OF SILICON CARBIDE BRICK 67-03 M05-65356
MODERN PRACTICES FOR FINISHING ALUMINUM--ANODIZING AND SEALING 67-03 M12-65976
CORROSION PROTECTION OF WEATHER DECKS OF NAVAL SHIPS 67-03 M18-65730
ANTIFRICTION PROPERTIES AND WEAR RESISTANCE OF BRONZE, PIG IRON AND GRAPHITIC STEEL 67-04 M17-66017
EFFECT OF THE HARDNESS AND STRUCTURE OF STEEL ON RESISTANCE TO HYDRAULIC ABRASION AND CAVITATION 67-04 M17-67049
EVALUATION OF THE WEAR RESISTANCE OF METALS 67-05 M17-68408
INVESTIGATION OF THE RESISTANCE TO CAVITATION AND ABRASION OF MATERIALS FOR HYDRAULIC TURBINES 67-05 M17-68453
RESISTANCE TO HYDRAULIC ABRASION OF 10KH15N4G4D2L STAINLESS STEEL OF THE TRANSITION CLASS 67-05 M17-68454
STUDY ON THE WEAR OF CASTING AL ALLOYS. PT. 1. ON THE WEAR CHARACTERISTICS 67-05 M17-68888
WEAR-RESISTANT ALLOY 67-05 M17-69232
SOME PROPERTIES OF METAL MOLD COATING FOR CAST IRON 67-06 M06-70851
AN ABRASION TEST FOR USE IN AGRICULTURAL ENGINEERING 67-07 M19-74251
METHOD OF WEAR TESTING WITH IMPACT AGAINST AN ABRASIVE SURFACE 67-08 M17-74536
SOME CAUSES OF INTENSIVE WEAR OF IRON-GRAPHITE BEARINGS UNDER INCREASED LOADS 67-08 M17-74911
INFLUENCE OF THE STRUCTURE ON THE RESISTANCE OF METAL TO WEAR BY ABRASION 67-08 M17-76008
THE WEAR OF METALS BY HARD ABRASIVES 67-10 M17-79109
POLYURETHANE-BASED PROTECTIVE LACQUERS FOR COPPER AND ZINC 67-11 M18-81490
EFFECTS OF BORON ON STRUCTURE AND PROPERTIES OF WELD DEPOSITED METAL 67-12 M11-83539
WEAR OF ENGINEERING MATERIALS 67-12 M17-82915
LAMINATED MARTENSITIC WHITE IRONS 67-12 M17-82917
ON THE FACTORS WHICH INFLUENCE THE ABRASION OF CARBON STEELS AT HIGH TEMPERATURES, AND COMPARISON OF THE ABRADED APPEARANCE AT HIGH TEMPERATURE WITH THAT OF ROOM TEMPERATURE. PT. 2. RESEARCH ON THE ABRASION OF STEEL DURING WARM DEFORMATION 67-12 M17-83390
CAST ALLOY DEFIES FURNACE HEAT 67-12 M20-83481
ABRASION RESISTANCE, ALLOYING EFFECTS
STUDIES OF THE QUALITY, RELAXATION AND WEAR RESISTING PROPERTIES OF VANADIUM HIGH-GRADE CAST IRON 67-01 M17-58742
THE ABRASIVE WEAR RESISTANCE OF HIGH-CARBON CHROMIUM-MOLYBDENUM BUILT-UP METAL 67-11 M11-80643
ABRASION RESISTANCE, HEATING EFFECTS
HEAT TREATMENT OF CAST HIGH CARBON MULTIALLOYED ALLOY 67-12 M10-81720
EFFECT OF ANNEALING ON HARDNESS AND ABRASIVE WEAR OF AUSTENITIC MANGANESE CAST IRON 67-12 M17-81840
ABRASION RESISTANT COATINGS
ELECTRODEPOSITION OF RHODIUM AND RUTHENIUM FOR SLIP-RING SURFACES 67-05 M12-68826
WEAR RESISTANCE PROPERTIES OF HARD ANODIZED COATINGS. PT. 1 AND 2 67-05 M12-68896
HARD ANODIZING ALUMINUM AND ITS ALLOYS 67-06 M12-71068
MATERIALS FOR THE PROTECTION OF SURFACES AGAINST ABRASIVE WEAR 67-06 M17-70961
ABRASION RESISTANT STEELS, COATINGS
INVESTIGATION OF THE JET-STREAM WEAR IN BUILT-UP METAL 67-04 M17-66569
ABRASION RESISTANT STEELS, MECHANICAL PROPERTIES
THE EROSION OF DEPOSITED METALS BY STREAMS OF ABRASIVE SUBSTANCES 67-07 M17-73426
ABRASION RESISTANT STEELS, SLEEVES
WEAR RESISTANCE OF ENGINE VALVE SEATS 67-04 M06-66425
ABRASIVE BELTS
COST-SAVING FACTORS IN GRINDING AND POLISHING WITH ABRASIVE BELTS 67-05 M08-68607
BELT GRINDING EFFICIENCY 67-07 M08-72796
WHAT YOU CAN DO WITH ABRASIVE-BELT MACHINING 67-08 M08-74464
ABRASIVE BELT MACHINING 67-09 M08-77002
ABRASION AND POLISHING OF TUBES AND RODS 67-10 M12-79397
ABRASIVE BLASTING
SEE ALSO GRIT BLAST CLEANING
GRIT BLASTING
SANDBLASTING
ABRASIVE BLASTING--NEW EQUIPMENT MEANS NEW APPLICATIONS 67-02 M12-59015
DOSCO STEEL PROCESSING FLAT ROLLED STRIP IN QUEBEC 67-02 M12-60240
MECHANISM OF BREAKDOWN OF A STEEL SURFACE BY FREE STRIKING ABRASIVE GRAINS 67-04 M17-67046
DRY HONING RESTORES STEEL BLADES 67-05 M12-68470
ABRASIVE CLEANING OF WIRE AND WIRE ROD 67-07 M12-74300
ABRASIVE SURFACE FINISHING 67-08 M12-74524
ABRASIVE BLASTING--WET AND DRY 67-10 M12-78524
SURFACE PREPARATION BY ABRASIVE BLASTING 67-10 M12-80098
ABRASIVE BLASTING 67-12 M12-82518
ABRASIVE BLASTING, AUTOMATION
MODERN APPROACH TO IMPACT FINISHING 67-09 M12-77740

ABRASIVE BLASTING
ABRASIVE BLAST FINISHING--ITS MANY FORMS AND USES. PT. O 67-10 M12-79401
ABRASIVE CUTOFF
SEE ABRASIVE MACHINING
ABRASIVE JET DRILLING
SEE ABRASIVE BLASTING DRILLING
ABRASIVE MACHINING
WHAT ABRASIVE GRIT SIZE FOR MACHINING 67-01 M08-58571
ABRASIVE MACHINING IN FOCUS 67-02 M08-60887
SUPERFINISHING TO CHANGE SURFACE GEOMETRY 67-02 M08-61127
WHERE OFFHAND DOESNT MEAN CARELESS 67-02 M08-61133
MEASUREMENT OF THE ABRASIVE CAPACITY OF POWDERS OF CARBIDES AND BORIDES OF REFRACTORY METALS 67-02 M09-61788
ABRASIVE BELTS AND THEIR USE. PT. 2 67-03 M08-65042
THE MECHANISM OF MATERIAL REMOVAL IN THE EROSIVE CUTTING OF BRITTLE MATERIALS 67-03 M08-65937
MEASURING THE PERFORMANCE OF COATED ABRASIVES 67-05 M12-68678
HIGH PRECISION ABRASIVE MACHINING 67-06 M08-70555
INVESTIGATION OF THE POLISHING CAPACITY OF REFRACTORY COMPOUNDS 67-06 M09-71464
NEW POLISHING MATERIALS FOR PROCESSING OF SINGLE CRYSTALS 67-06 M12-72324
ABRASIVE MACHINING--WHY AND WHEN 67-07 M08-73858
CARBIDE TOOL GRINDING AT A MODERN TRACTOR PLANT 67-07 M08-74167
WHY NOT TRY FREE-ABRASIVE MACHINING 67-07 M08-74217
FASTER FINISHING OF TUNGSTEN CARBIDE DIES 67-07 M12-74168
TOROIDAL PATH MACHINE SPEEDS ABRASIVE FINISHING 67-08 M08-74461
WHAT YOU CAN DO WITH ABRASIVE-BELT MACHINING 67-08 M08-74464
THE EFFECT OF SOME OPERATING VARIABLES IN VERTICAL SPINDLE ABRASIVE MACHINING OF MILD STEEL 67-09 M08-76461
GAS-BORNE ABRASIVE CUTS BRITTLE MATERIALS 67-09 M08-76498
ORBITAL ABRASION SHAPES GRAPHITE ELECTRODES 67-09 M08-76734
ABRASIVE BELT MACHINING 67-09 M08-77002
WHAT YOU CAN DO WITH ABRASIVE-BELT MACHINING. PT. 2 APPLICATIONS 67-09 M08-77699
THE NATURE OF THE GRINDING PROCESS 67-10 M08-78896
AN EVALUATION OF THE ELECTROLYTIC GRINDING OF TUNGSTEN CARBIDE. PT. 2 67-10 M08-79402
FOUR RULES FOR INCREASING OUTPUT FROM VERTICAL SPINDLE SURFACE GRINDERS 67-11 M08-80540
MECHANIZED DRESSING OF HEAVY-GAGE SHEETS 67-12 M08-81872
FUNDAMENTAL STUDIES ON LAPPING 67-12 M12-83597
ABRASIVE MACHINING, AUTOMATION
HIGH-PRECISION ABRASIVE MACHINING 67-10 M08-78800
ABRASIVE WHEELS
SEE ALSO GRINDING WHEELS
INVESTIGATION OF THE POLISHING CAPACITY OF REFRACTORY COMPOUNDS 67-06 M09-71464
EFFECTS OF GRINDING FLUIDS ON GRINDING PERFORMANCES IN FORCED INFEED PLUNGE GRINDING 67-12 M08-83545
ABRASIVE WHEELS, SERVICE TIME
THE QUESTION OF THE LIFE OF GRINDING WHEELS 67-03 M08-65726
ABRASIVE WHEELS, WEAR
THEORY OF TOOL LIFE FOR THE GRINDING WHEEL 67-08 M08-75568
ABRASIVES
SEE ALSO CORUNDUM
HIGH-STRENGTH STEEL FOR MOLDS AND DIES 67-08 M17-74970
DEVELOPMENTS IN POLISHING AND BUFFING 67-10 M12-79002
ARE NEW FINISH STANDARDS REQUIRED 67-10 M12-79188
FINE FINISHING--THE DEVELOPMENT FROM HAND OPERATIONS TO VIBRATORY METHODS 67-10 M12-79191
ABRASIVES, CRYSTAL LATTICES
ELECTRON MICROSCOPY AND DIFFRACTION OF SYNTHETIC CORUNDUM CRYSTALS. PT. 2. DISLOCATIONS AND GRAIN BOUNDARIES IN IMPURITY-DOPED ALUMINIUM OXIDE 67-01 M13-57481
ABRASIVES, MECHANICAL PROPERTIES
EFFECT OF HEAT TREATMENT ON MECHANICAL PROPERTIES OF ABRASIVE GRAIN 67-08 M17-75569
ABRASIVES, WEAR
STUDY OF THE ABRASIVE PROPERTIES OF REFRACTORY COMPOUNDS 67-02 M17-60181
ABRASIVE POWER OF REFRACTORY COMPOUNDS 67-09 M17-76914
ABSOLUTE HUMIDITY
SEE ABSORPTIVITY HUMIDITY
ABSOLUTE PRESSURE
SEE PRESSURE
ABSOLUTE VISCOSITY
SEE VISCOSITY
ABSORBANCE
SEE ABSORPTIVITY
ABSORBERS /SHOCK/
SEE SHOCK ABSORBERS
ABSORBING
SEE ABSORPTIVITY
ABSORPTANCE
SEE ABSORPTIVITY
ABSORPTIOMETRY /ENERGY/
SEE ABSORPTION /ENERGY/
ABSORPTIOMETRY /MATERIAL/
SEE ABSORPTION /MATERIAL/
ABSORPTION /ENERGY/
SEE ALSO ELECTROMAGNETIC ABSORPTION
ANALYSIS BY ATOMIC ABSORPTION IN METALLURGY 67-03 M16-65453
IMPURITY-SENSITIVE INFRARED ABSORPTION IN N-TYPE ALPHA-SIC 67-04 M16-67474
EFFECT OF ELECTROMAGNETIC RADIATION 67-05 M15-68994
PREPARATION AND PROPERTIES OF SPUTTERED BISMUTH OXIDE FILMS 67-06 M12-71045
THE OPTICAL AUTOABSORPTION AND THE DIELECTRIC CONSTANT OF CADMIUM OXIDE AT HIGH ELECTRON DEGENERATION 67-06 M16-69963
NEUTRON DIFFRACTION STUDIES ON CHROMIUM-BASED CR-V-MN TERNARY DILUTE ALLOYS 67-06 M16-70571
GIANT QUANTUM OSCILLATIONS OF THE ABSORPTION COEFFICIENT OF ULTRASOUND IN ANTIMONY 67-06 M16-71766
ANOMALOUS ELECTROMAGNETIC MICROWAVE ABSORPTION OF SUPERCONDUCTING ALLOYS IN A STATIC MAGNETIC FIELD 67-06 M16-71994
THE EFFECT OF SURFACE TREATMENT ON THE QUANTITY OF ELECTRONS ABSORBED BY THE SPECIMEN 67-07 M15-73730
MEASUREMENT OF ABSORPTION OF FAST ELECTRONS IN SINGLE CRYSTAL FILMS OF ALUMINIUM 67-07 M16-73144
ABSORPTION ENERGY OF HYDROGEN IN METAL 67-08 M14-74647
OPTICAL PROPERTIES OF ZINC TELLURIDE 67-08 M15-74668
SOME OPTICAL PROPERTIES OF THIN EVAPORATED CD3AS2 FILMS 67-08 M15-75220
METALLURGY AND PHYSICAL PROPERTIES OF MERCURY-DOPED GERMANIUM RELATED TO THE PERFORMANCES OF THE INFRARED DETECTOR 67-08 M16-74599
FREE CARRIER PIEZOABSORPTION IN N-TYPE GERMANIUM 67-08 M16-75005
FABRICATION OF THICK GERMANIUM DETECTORS 67-08 M20-75307
THE ABSORPTION AND SECONDARY FLUORESCENCE OF ELECTRON EXCITED X-RAY EMISSION IN THE BINARY ALLOYS FE-MN, FE-SI AND FE-NI 67-09 M15-77553
CONDUCTIVITY RANGE AND ABSORPTION EDGE OF ZINC SELENO-TELLURIDES 67-10 M15-79120
ZERO-FIELD NUCLEAR SPIN RELAXATION AND RESONANCE ABSORPTION IN SUPERCONDUCTING ALUMINUM 67-10 M16-78735
POLARIZATION DEPENDENCE OF THE URBACH RULE IN TRIGONAL SELENIUM 67-10 M16-79359
THERMOELASTIC STRESS PULSES RESULTING FROM PULSED ELECTRON BEAMS 67-10 M17-79410
ABSORPTION AND THE ATOMIC SCATTERING OF ELECTRONS IN ALUMINUM AND NACL 67-11 M16-80181
INVESTIGATION OF THE COEFFICIENT OF ABSORPTION OF SOUND IN BISMUTH. PT. 2. GIANT OSCILLATIONS 67-11 M16-80782

ABSORPTION /ENERGY/, PRESSURE EFFECTS
- INFLUENCE OF DIRECTED DEFORMATION ON THE INTRINSIC-ABSORPTION EDGE OF SINGLE CRYSTALS OF TRIGONAL SELENIUM 67-06 M16-71927

ABSORPTION /ENERGY/, TEMPERATURE EFFECTS
- EXPERIMENTAL INVESTIGATION OF THE FREQUENCY DEPENDENCE OF ELECTRON ABSORPTION OF ULTRASOUND IN TIN SINGLE CRYSTALS OF VARIOUS CRYSTALLOGRAPHIC ORIENTATIONS 67-11 M15-80784

ABSORPTION /MATERIAL/
- SEE ALSO CHEMISORPTION
- RELATIONSHIP BETWEEN HYDROGEN UPTAKE AND THE POROSITY OF IRON 67-01 M15-58338
- BURSTEIN SHIFT OF THE FUNDAMENTAL ABSORPTION EDGE OF TIN TELLURIDE 67-01 M16-57443
- HYDROGEN ABSORBTION AND ELASTO-MECHANICAL PROPERTIES OF PURE TITANIUM AND TITANIUM ALLOYS 67-02 M14-59089
- HYDROGEN ABSORPTION BY TI-NI, TI-CR AND TI-AL ALLOYS 67-02 M14-59893
- HYDROGEN IN PALLADIUM ALLOYS 67-02 M16-60028
- ABSORPTION OF SULFUR DIOXIDE IN MERCURY AT 25 C 67-03 M14-65097
- NITROGEN IN NONALLOYED FERRITIC METAL 67-04 M17-66568
- DISSOLUTION OF STEEL AND ABSORPTION OF HYDROGEN BY STEEL DURING ACID PICKLING IN PRESENCE OF INHIBITOR. PT. 2 67-04 M18-66304
- THE HYDROGEN-PALLADIUM SYSTEM. THE ROLE OF X-RAY AND NEUTRON DIFFRACTION STUDIES 67-05 M14-69283
- STEADY STATES DURING ANNEALING NIOBIUM AND TANTALUM IN OXYGEN 67-06 M14-71666
- MAGNETIC, SUPERCONDUCTING, AND OTHER PHASE TRANSITIONS WITHIN THE METALLIC STATE 67-06 M16-71202
- ADSORPTION, ABSORPTION, AND DEGASSING IN THE OXYGEN-NIOBIUM SYSTEM AT VERY LOW PRESSURE 67-07 M14-73453
- COMPARISON OF HYDROGEN AND DEUTERIUM SOLUBILITY IN PALLADIUM-RICH ALLOYS. GOLD-PALLADIUM 67-08 M14-75385
- GASES IN METALS 67-08 M15-74559
- OPTICAL PROPERTIES OF SUPERCONDUCTING NB-TI ALLOYS 67-08 M15-74637
- ABSORPTION OF ELECTROLYTIC HYDROGEN BY NICKEL AND IRON-NICKEL ALLOYS 67-09 M14-76626
- BEHAVIOR OF NITROGEN DURING THE BLOWING OF MOLTEN METAL WITH OXYGEN THROUGH A LANCE IN THE PRODUCTION OF LOW CARBON STEEL 67-10 M04-79324
- ABSORPTION METHOD OF DETERMINING THE DIFFUSION COEFFICIENT OF ALPHA-RADIOACTIVE ELEMENTS 67-10 M14-79639
- KINETIC STUDY OF THE ABSORPTION OF OXYGEN FROM THE AIR BY LIQUID SILVER 67-10 M14-79924
- ABSORPTION OF INFRARED RADIATION BY FREE CARRIERS IN N-GAAS 67-10 M15-79447
- BEHAVIOR OF ZIRCONIUM ALLOYS IN WATER AND SUPERHEATED STEAM 67-10 M18-79931
- ABSORPTION OF TE FROM HYDROCHLORIC ACID SOLUTIONS WITH WOFATIT-SBW 67-11 M03-80338
- ABSORPTION OF GASEOUS HYDROGEN BY ZIRCALLOY-2 67-11 M14-80309
- NITROGEN ABSORPTION AND DESORPTION BY LIME-ALUMINA SLAG 67-11 M14-81643
- ARC ATMOSPHERE AND NITROGEN CONTENT OF WELD METAL 67-12 M11-83211

ABSORPTION /MATERIAL/, DIFFUSION EFFECTS
- THE DIFFUSION OF HYDROGEN IN LIQUID IRON 67-12 M14-82753

ABSORPTION /MATERIAL/, TEMPERATURE EFFECTS
- ELECTRIC CONDUCTIVITY AND DIELECTRIC ABSORPTION PHENOMENA IN LEAD ZIRCONATE CERAMICS 67-11 M15-80618

ABSORPTION BAND
- SEE ABSORPTION SPECTRA

ABSORPTION COEFFICIENT
- SEE ABSORPTION /ENERGY/

ABSORPTION SPECTRA
- FINE STRUCTURE ANISOTROPY OF THE X-RAY K-ABSORPTION SPECTRUM OF A GALLIUM SINGLE CRYSTAL 67-01 M13-57339
- X-RAY ABSORPTION K-SPECTRA OF IRON IN CARBIDE OF CARBON STEEL, TEMPERED AT VARIOUS TEMPERATURES AND HOLDING TIMES 67-02 M14-59939
- EMISSION AND ABSORPTION K-SPECTRA OF METALLIC TITANIUM 67-02 M19-59945
- OPTICAL PROPERTIES OF ALPHA-MNS IN THE FUNDAMENTAL ABSORPTION REGION 67-04 M15-66791
- K-SPECTRUM OF METALLIC CA. CONNECTION BETWEEN ELECTRON STRUCTURE OF CA AND TRANSITION METALS OF THE BEGINNING OF THE FIRST PERIOD 67-04 M15-67914
- OPTICAL PROPERTIES AND ELECTRONIC STRUCTURE OF AMORPHOUS GERMANIUM 67-04 M16-66747
- OPTICAL ABSORPTION, PHOTOCONDUCTIVITY, SPONTANEOUS AND STIMULATED LIGHT EMISSION INVOLVING EXCITON STATES IN CDTE 67-04 M16-66749
- OSCILLATORY MAGNETO-ABSORPTION OF THE DIRECT TRANSITION IN THE LAYER COMPOUND GALLIUM SELENIDE AT 1.5 K 67-04 M16-66750
- OSCILLATORY MAGNETO-ABSORPTION IN TELLURIUM 67-04 M16-66752
- THE APPLICATION OF CRYSTAL FIELD THEORY TO THE ELECTRICAL PROPERTIES OF CO IMPURITIES IN GAP 67-04 M16-66757
- EDGE ABSORPTION AND PHOTOLUMINESCENCE IN DISORDERED GALLIUM ARSENIDE 67-04 M16-66760
- SOFT X-RAY ABSORPTION SPECTRA OF METALS AND ALLOYS. PT. 1. BE, AL, SB, BI AND AL-MG ALLOYS 67-04 M16-67473
- MOSSBAUER EFFECT STUDY OF V2O3 67-04 M16-67476
- X-RAY K-ABSORPTION SPECTRUM OF METALLIC POTASSIUM 67-05 M15-69542
- OPTICAL REFLECTION OF GALLIUM PHOSPHIDE, GALLIUM ARSENIDE, AND THEIR SOLID SOLUTIONS 67-05 M16-69382
- ATOMIC ANALYSIS IN FLAMES 67-05 M19-69358
- STUDY OF IONIZATION-INDUCED RADIATION DAMAGE IN MGO 67-06 M15-69923
- IMPURITY PHOTOCONDUCTIVITY SPECTRA OF P-TYPE GERMANIUM WITH GA, HG, AU AND NI IMPURITIES 67-06 M16-70050
- NEW MEASUREMENTS OF THE ELECTROMAGNETIC ABSORPTION SPECTRUM OF SUPERCONDUCTING LEAD 67-06 M16-70637
- IDENTIFICATION OF THE FUNDAMENTAL VIBRATIONAL MODES OF TRIGONAL, ALPHA-MONOCLINIC AND AMORPHOUS SELENIUM 67-06 M16-71170
- SELF-ABSORPTION IN SOFT X-RAY SPECTRA OF ALLOYS 67-06 M16-71288
- INFLUENCE OF DIRECTIONAL DEFORMATION ON THE FUNDAMENTAL ABSORPTION EDGE OF TRIGONAL SELENIUM SINGLE CRYSTALS 67-06 M16-71771
- THE ULTRAVIOLET ABSORPTION SPECTRUM OF TESE 67-06 M16-72090
- K-ABSORPTION SPECTRA OF IRON IN THE CARBIDE OF A CARBON STEEL TEMPERED AT DIFFERENT TEMPERATURES AND HOLDING TIMES 67-07 M14-72594
- OPTICAL ABSORPTION NEAR THE ABSORPTION EDGE IN V2O5 SINGLE CRYSTALS 67-07 M15-72963
- EXCITATION SPECTRA OF GROUP 3 IMPURITIES IN GERMANIUM UNDER UNIAXIAL STRESS 67-07 M16-72836
- K-ABSORPTION AND EMISSION SPECTRA OF METALLIC TITANIUM 67-07 M19-72600
- X-RAY K-ABSORPTION SPECTRA OF TITANIUM, VANADIUM AND GERMANIUM IN GERMANIDES 67-08 M13-75960
- INVESTIGATIONS INTO THE MECHANISM OF TRAPPING OF INERT GAS IONS IN POLYCRYSTALLINE TUNGSTEN 67-08 M15-74786
- OPTICAL AND PHOTOCONDUCTIVE PHENOMENA IN CUPROUS OXIDE 67-08 M15-75228
- OPTICAL PROPERTIES OF ZINC TELLURIDE IN THE INFRARED 67-08 M15-76168
- EXCITON ABSORPTION IN DOPED GERMANIUM 67-08 M16-75234
- LOCAL MODE ABSORPTION FROM BORON PAIRS IN SILICON 67-08 M16-75833
- THE USE OF HIGH-TEMPERATURE PREMIXED FLAMES IN ATOMIC ABSORPTION SPECTROSCOPY APPLIED TO STEEL WORKS ANALYSES 67-08 M19-76193
- A STUDY OF ATOMIC ABSORPTION SPECTROMETRY-- DETERMINATION OF MAGNESIUM AND CALCIUM IN SLAG AND CAST IRON 67-09 M19-77875
- LOW TEMPERATURE FAR INFRARED SPECTRA OF SIO2 POLYMORPHS 67-11 M13-81685
- ABSORPTION-LINE BROADENING IN BORON-DOPED SILICON 67-11 M15-80331
- OPTICAL STUDIES OF BETA-SIC 67-11 M15-80614
- OPTICAL CONSTANTS OF BETA-PHASE NIAL 67-11 M15-81079
- ELECTRONIC SPECTRUM OF CRYSTALLINE LITHIUM FLUORIDE 67-11 M15-81680
- EFFECTS OF EXTERNAL AND INTERNAL ELECTRIC FIELDS ON THE BORON ACCEPTOR STATES IN SILICON

ABSORPTION SPECTRA
67-11 M16-80328
ABSORPTION MEASUREMENTS OF COPPER, SILVER, TIN, GOLD AND BISMUTH IN THE FAR ULTRAVIOLET
67-11 M16-80771
CRYSTAL-FIELD SPECTRA OF 3DN IMPURITIES IN 2-6 AND 3-5 COMPOUND SEMICONDUCTORS 67-11 M16-81484
INFLUENCE OF OH-IONS ON INFRARED ABSORPTION AND IONIC CONDUCTIVITY IN LITHIUM FLUORIDE CRYSTALS
67-11 M16-81670
DETERMINATION OF THE REDUCED EFFECTIVE MASS IN ZINC SELENIDE 67-11 M16-81689
NEUTRON-INDUCED TYPE CHANGES IN P-TYPE SILICON
67-11 M16-81691
ABSORPTION SPECTRA, ALLOYING EFFECTS
CORRELATION BETWEEN THE K-ABSORPTION EDGE AND OTHER PROPERTIES OF SOME NICKEL-RICH SOLID SOLUTIONS
67-12 M13-82442
ABSORPTION SPECTRA, IMPURITY EFFECTS
LOCALIZED MODES OF SUBSTITUTIONAL IMPURITIES IN INTERMETALLIC COMPOUNDS 67-04 M16-66744
INFRARED ABSORPTION OF LOCALIZED VIBRATION DUE TO LITHIUM IN ZINC SELENIDE AND CADMIUM SULFIDE
67-04 M16-66745
ABSORPTION SPECTRA, PRESSURE EFFECTS
INFLUENCE OF DIRECTED DEFORMATION ON THE INTRINSIC-ABSORPTION EDGE OF SINGLE CRYSTALS OF TRIGONAL SELENIUM 67-06 M16-71927
ABSORPTION TOWERS
SEE COLUMNS /PROCESS/
ABSORPTIVITY
THE OPTICAL AND ELECTRICAL CONSTANTS OF BETA-RHOMBOHEDRAL BORON AND APPLICATIONS, 1965, P 133-141
67-01 M15-58413
THE REFLECTION SPECTRA OF SOLIDS, CONDITIONS AND LIMITS OF THE QUANTITATIVE EVALUATION OF THE KUBELKA-MUNK FUNCTION 67-04 M15-67252
INFLUENCE OF DEGASSING ATMOSPHERE OF ALUMINUM POWDER ON REABSORPTION OF MOISTURE
67-11 M09-80758
ABSORPTIVITY, IMPURITY EFFECTS
ABSORPTION OF AMORPHOUS SE THIN LAYERS DOPED WITH BI AND ZN 67-11 M14-80630
ABSORPTIVITY, RADIATION EFFECTS
SURFACE BLISTERING OF METALS DUE TO LOW ENERGY HYDROGEN BOMBARDMENT 67-06 M16-70612
ACCELERATED TESTS
SEE ALSO CORRODKOTE TESTS
EVALUATION OF ACCELERATED CORROSION TESTS FOR ANODIZED ALUMINIUM 67-05 M18-68823
NEW ACCELERATED TEST METHODS FOR THE INVESTIGATION OF CORROSION RESISTANCE OF SURFACE-PROTECTED STEEL SHEET--CORROSION TEST OF PHOSPHATIZED BUT NOT PAINTED STEEL SHEET 67-09 M18-76706
NEW ACCELERATED METHODS FOR TESTING THE CORROSION RESISTANCE OF SURFACE-PROTECTED STEEL SHEET. PT. 2. CORROSION TESTING OF PHOSPHATIZED PAINTED STEEL USING THE IMMERSION PROCESS
67-09 M18-77193
ACCELERATORS /PARTICLE/
SEE PARTICLE ACCELERATORS
ACCEPTANCE SAMPLING
SEE QUALITY CONTROL
SAMPLING
ACCEPTORS /ELECTRONIC/
THE THERMAL PRODUCTION OF ACCEPTORS IN INSB
67-06 M16-69960
RAMAN SCATTERING FROM DONOR AND ACCEPTOR IMPURITIES IN SILICON 67-06 M16-71100
INTERNAL DEFECT PHENOMENA IN TE
67-07 M16-73833
SIMULTANEOUS DIFFUSION OF GA AND AS INTO SILICON FROM A GAAS SOURCE 67-11 M14-80535
ELECTRICAL PROPERTIES OF GERMANIUM COMPOUNDS
67-11 M15-80610
DEEP ACCEPTORS IN IRON-DOPED GALLIUM ARSENIDE
67-11 M15-80634
EFFECTS OF EXTERNAL AND INTERNAL ELECTRIC FIELDS ON THE BORON ACCEPTOR STATES IN SILICON
67-11 M16-80328
ABOUT THE ROLE OF MINORITY CARRIERS IN THE IMPURITY CONDUCTION OF GASB 67-12 M16-82014
ACCUMULATORS
COMPARATIVE EVALUATION OF COLLECTORS FOR ANTIMONY FLOTATION 67-06 M02-70188
ACETYLENE WELDING
SEE OXYACETYLENE WELDING
ACICULAR STRUCTURE
GRAIN REFINING AND MECHANICAL PROPERTIES OF URANIUM ALLOYS CONTAINING SMALL AMOUNTS OF VANADIUM 67-05 M14-68918
THE BAINITIC REACTION IN URANIUM-CHROMIUM ALLOYS
67-05 M14-69563
THE LATTICE OF HEAVY METAL PHASES IN INP
67-08 M14-75901
ACICULAR STRUCTURE, TEMPERATURE EFFECTS
THE TEMPERATURE OF DISPLACEMENT GAMMA-TO-ALPHA TRANSFORMATION IN IRON 67-11 M13-80741
ACID BESSEMER PROCESS
SEE ACID CONVERTERS
BESSEMER CONVERTERS
ACID CLEANING
SEE ALSO PICKLING
METHOD FOR CLEANING STAINLESS STEEL
67-02 M12-60950
PROTECTION FROM ACID AND ACID FUME CORROSION IN A WIRE MILL 67-02 M18-58975
DISSOLUTION OF STEEL AND ABSORPTION OF HYDROGEN BY STEEL DURING ACID PICKLING IN PRESENCE OF INHIBITOR. PT. 2 67-04 M18-66304
METAL CLEANING 67-06 M12-70028
ACID CLEANING, AUTOMATION
AUTOMATION IN PICKLING 67-11 M12-80297
ACID CONVERTERS
PRODUCTION OF ELECTRICAL ACID BESSEMER STEEL
67-10 M04-79820
ACID FURNACES
SEE ACID REFRACTORIES
FURNACES
ACID LEACHING
THERMAL BENEFICIATION OF LOW GRADE CHROME ORE FROM VAGDA DEPOSITS, RATNAGIRI DISTRICT, MAHARASHTRA
67-04 M02-66307
PROCESS RECOVERS YTTRIUM FROM RESIDUE ORE
67-04 M02-66647
CARBON ADSORPTION IS KEY TO RECOVERY OF MOLYOXIDE AT NEW CLIMAX PLANT 67-04 M02-67497
FIRST COMMERCIAL-SCALE H2 REDUCTION PLANT FOR CU ON STREAM 67-04 M03-67496
OXIDE MOLYBDENUM RECOVERY AT CLIMAX
67-05 M02-68771
DIRECT ACID PRESSURE LEACHING OF CHALCOCITE CONCENTRATE 67-06 M03-72075
ION EXCHANGE RECOVERY OF COPPER PROMISING
67-07 M03-72997
RECOVERY OF BERYLLIUM FROM ACID LEACHES OF BERYL BY SOLVENT EXTRACTION 67-07 M03-74297
PLUTONIUM RECOVERY FROM SCRAP 67-08 M03-74927
ACID OPENHEARTH PROCESS
A CONTROL PROCEDURE FOR THE REFINING OF ACID OPEN HEARTH HEATS 67-03 M04-65508
TEMPERATURE IN THE ACID OPEN HEARTH PROCESS
67-03 M04-65509
ELIMINATION OF HYDROGEN FROM ACID OPEN HEARTH STEELS 67-03 M04-65510
EFFECT OF FUEL-OFF OXYGEN REFINING ON THE GAS CONTENT OF ACID OPEN HEARTH STEEL
67-03 M04-65511
SMELTING BEARING STEEL IN AN ACID OPENHEARTH FURNACE 67-10 M04-79850
ACID PICKLING
SEE PICKLING
ACID REFRACTORIES
SEE ALSO FIREBRICK
SILICA BRICK
SILICEOUS REFRACTORIES
EFFECTS OF ALUMINUM ON THE PROPERTIES AND QUALITY OF GRADE 25L CONVERTER AND ACID ELECTRIC FURNACE STEEL 67-04 M04-67862
EFFECT OF THE REFRACTORY LINING ON THE PROPERTIES OF CAST IRON 67-06 M06-71187
ACID REFRACTORIES, REACTIONS /CHEMICAL/
STABILITY OF REFRACTORIES DURING VACUUM DEOXIDATION OF STEEL 67-03 M04-65357
ACID REFRACTORIES, STEEL MAKING
DEVELOPMENT OF PRESCRIPTION FURNACE LININGS
67-06 M04-71003
ACID REFRACTORIES, STRUCTURAL MATERIALS
A GUIDE TO SELECTING MODERN REFRACTORIES
67-10 M05-79177
ACID RESISTANCE
SEE ALSO CATHODIC PROTECTION
CHEMICAL ATTACK
CORROSION
CORROSION ENVIRONMENTS
CORROSION RESISTANCE
CORROSION RESISTANCE OF STAINLESS STEEL WELDED JOINTS IN SOME AGGRESSIVE MEDIA

67-01 M18-57535
SINTERED FILTERS FOR FILTERING CORROSIVE LIQUIDS AND HOT GASES 67-01 M18-57601
CORROSION CRACKING OF TITANIUM ALLOYS IN ACIDS 67-01 M18-57602
PROBLEM OF CORROSION RESISTANCE OF STAINLESS STEELS IN SOLUTIONS OF NITRIC ACID 67-01 M18-57642
CORROSION AND ELECTROCHEMICAL BEHAVIOR OF VANADIUM IN SOLUTIONS OF SULFURIC ACID 67-01 M18-57697
EFFECT OF NITRIC ACID ON THE CORROSION AND ELECTROCHEMICAL BEHAVIOR OF TITANIUM IN TITANIUM IN SOLUTIONS OF MINERAL ACIDS --HCL AND H2SO4-- 67-02 M18-59784
CORROSION RESISTANCE OF WELDED JOINTS IN STAINLESS STEELS 67-02 M18-61154
CORROSION RESISTANT NICKEL-BASE ALLOYS 67-02 M18-61879
HIGHLY ALLOYED STAINLESS SHEET SHOWN TO RESIST DILUTE HOT ACID IMPINGEMENT IN PICKLING BOOTH 67-03 M18-65470
CORROSION OF CAST IRON IN CONCENTRATED SULFURIC ACID UNDER POTENTIOSTATIC CONDITIONS 67-03 M18-65996
NICKEL BASE HYDROCHLORIC ACID CORROSION RESISTANT ALLOY CASTING 67-04 M18-67114
CORROSION-RESISTANT NICKEL-BASE ALLOYS 67-04 M18-67698
SHELL MOLD CASTINGS RESIST HEAT AND CORROSION 67-05 M06-68424
DESIGNING WITH ALUMINUM--ALLOYS FOR VARIOUS CORROSIVE ENVIRONMENTS 67-05 M18-68792
PICKLING INHIBITORS IN H2SO4--TESTS WITH INORGANIC HALIDES AND THEIR MIXTURES 67-05 M18-68796
PHOSPHORIC ACID PROCESSING--ALLOY SELECTED FOR USE IN WET PROCESS 67-05 M18-68798
USING EPOXY MATERIALS FOR PROTECTIVE COATINGS OF PICKLING BATHS 67-06 M12-71265
CORROSION CRACKING OF HIGH-STRENGTH STEELS IN ACIDS 67-06 M18-70192
SELECTIVE PLATING OF CAVITIES IN PLASTICS MOULDING DIES 67-06 M18-70710
CONSTRUCTION MATERIALS FOR PHOS-ACID MANUFACTURE 67-06 M20-71496
TRANSGRANULAR CORROSION AND CORROSION CRACKING OF 18-9 AND 18-12 TYPES OF STAINLESS STEELS WITHOUT TI AND CB ADDITIONS 67-07 M18-73171
PROTECTIVE EFFECT OF SOME AZOLES ON ACID CORROSION OF IRON 67-07 M18-73649
PROTECTIVE EFFECT OF PROPARGYL ALCOHOL DURING CORROSION OF NICKEL IN SULFURIC ACID 67-07 M18-73650
INFLUENCE OF SOME INHIBITORS ON CORROSION OF IRON IN ACID MIXTURES 67-07 M18-73655
MANUFACTURE AND USE OF PLASTIC-LINED PIPES 67-07 M18-74078
INVESTIGATION OF SINTERING AND THE EFFECT OF THE ROASTING TEMPERATURE ON THE PHYSICAL AND CHEMICAL PROPERTIES OF ARTICLES MANUFACTURED FROM FERRUGINOUS SLAGS 67-08 M09-75458
USE OF EPOXIDE SUBSTANCES AS PROTECTIVE COATINGS FOR PICKLING BATHS 67-08 M12-75734
INHIBITION OF COPPER CORROSION IN HCL SOLUTIONS 67-08 M18-75061
QUATERNARY AMMONIUM INHIBITORS OF ACID CORROSION, AND THEIR ADSORPTION AT METAL SURFACES 67-08 M18-75549
EFFECT OF SOME ORGANIC PHOSPHORUS COMPOUNDS ON THE CORROSION OF LOW CARBON STEEL IN HYDROCHLORIC ACID SOLUTIONS 67-08 M18-75774
EFFECT OF HALIDE ADDITIONS ON ANODIC BEHAVIOR OF NICKEL IN SULFURIC ACID SOLUTIONS 67-08 M18-76189
BEHAVIOR OF STAINLESS STEELS IN PHOSPHORIC SOLUTIONS 67-08 M18-76293
CORROSION PREVENTION IN CONTACT SULPHURIC ACID PLANT EQUIPMENT 67-09 M12-78099
STRESS CORROSION OF ARMCO IRON IN ACID MEDIUM 67-09 M18-76430
CORROSION FATIGUE OF ARMCO IRON IN ACID MEDIUM 67-09 M18-76431
CORROSIVE ACTIVITY OF AQUEOUS SOLUTIONS OF H2SO4 67-09 M18-76432
USE OF ACID CORROSION INHIBITORS FOR CORROSION PROTECTION OF HIGH-STRENGTH CARBON STEELS 67-09 M18-76433
CORROSION BEHAVIOR OF CR-NI-MO-CU STEELS IN SULFURIC AND PHOSPHORIC ACIDS 67-09 M18-76516
INVESTIGATION OF CORROSION RESISTANCE OF METALS UNDER CONDITIONS OF SYNTHESIS OF PHENOL FROM TOLUOL 67-09 M18-77955
INFLUENCE OF SURFACE CONDITION OF IRON ON ITS SUSCEPTIBILITY TO ACID CORROSION 67-09 M18-78020
ANODIC BEHAVIOR OF IRON-ALUMINUM ALLOYS IN SULFURIC ACID SOLUTION 67-09 M18-78236
ANODIC BEHAVIOR OF IRON-COBALT ALLOYS AND COBALT METAL IN SULFURIC ACID SOLUTIONS 67-09 M18-78237
DISSOLUTION OF IRON IN A MIXTURE OF HYDROCHLORIC AND NITRIC ACIDS 67-10 M18-78536
INFLUENCE OF ANNEALING AT 600 C. ON ANODIC BEHAVIOR OF PURE ZIRCONIUM IN HYDROCHLORIC ACID 67-10 M18-78539
THE PROPERTIES OF CORROSION-RESISTANT NICKEL-MOLYBDENUM ALLOYS 67-10 M18-78943
RESEARCH INTO THE CORROSION-RESISTANCE OF A FERRITIC STAINLESS STEEL CONTAINING 17 PER CENT CR 67-10 M18-79746
NONSTANDARDIZED AUSTENITIC STAINLESS STEELS 67-10 M18-79928
INFLUENCE OF SURFACE CONDITION ON THE INHIBITING EFFECT OF DIBENZYLSULFOXIDE IN THE DISSOLUTION OF NICKEL IN HCL 67-10 M18-79933
SPECIFIC INFLUENCE OF SOME ADDITIVES ON THE CORROSION OF IRON IN ACID SOLUTIONS 67-10 M18-80007
PROTECTING STEEL FROM HYDROGEN EMBRITTLEMENT IN ACID MEDIA BY USING INHIBITORS 67-11 M18-80600
THE EFFECT OF ORGANIC ACIDS ON THE ANODIC DISSOLUTION OF NICKEL ALLOYS AND STAINLESS STEELS 67-11 M18-80709
SOME EFFECTS OF FLOW AND AERATION ON THE CORROSION BEHAVIOUR OF NICKEL IN SULPHURIC ACID SOLUTIONS 67-11 M18-80710
THE CORROSION BEHAVIOR OF PB AND PB ALLOYS IN BOILING SULFURIC ACID 67-11 M18-81032
DESIGNING STAINLESS PROCESSING EQUIPMENT--WAYS TO BRIDGE THE EXPERIENCE GAP 67-11 M18-81198
EXPERIENCE WITH TI APPARATUS IN THE CHEMICAL INDUSTRY 67-11 M18-81258
EFFECT OF KATAPIN K ON THE CORROSION BEHAVIOR OF CERTAIN METALS AND ALLOYS IN SULFURIC ACID 67-11 M18-81282
EFFECT OF STEAM TEMPERATURE ON THE CORROSION OF METALS UNDER HEAT-TRANSFER CONDITIONS 67-11 M18-81551
CORROSION UNDER HEAT TRANSFER--SERVICE FAILURES AND LABORATORY TESTING 67-11 M18-81552
HEAT TRANSFER AND CORROSION OF HIGH-NICKEL ALLOYS 67-11 M18-81554
EFFECT OF WELDING STRESSES ON THE CORROSION OF 1KH18N9T STEEL WELD JOINTS 67-12 M18-82476
CORROSION RESISTANCE OF CARBON STEEL WELDS AND STAINLESS STEEL WELDS IN SOME ARGRESSIVE MEDIA 67-12 M18-83193
CORROSION BEHAVIOR OF AUSTENITIC CR-NI STEELS IN PHOSPHORIC ACID 67-12 M18-83291
INFLUENCE OF HIGH-TEMPERATURE DEFORMATION AND SUBSEQUENT QUENCHING ON CORROSION AND MECHANICAL PROPERTIES OF AUSTENITIC CR-NI STEELS 67-12 M18-83523
CORROSION RESISTANT AUSTENITIC-FERRITIC STEEL, OKH20N6M02T 67-12 M18-83542

ACID RESISTANCE, ALLOYING EFFECTS
EFFECT OF ALLOYING ADDITIONS OF SILVER AND PALLADIUM ON THE CORROSION AND ELECTROCHEMICAL BEHAVIOR OF STAINLESS STEELS 67-01 M18-57640
INVESTIGATION OF THE CORROSION RESISTANCE AND THE ELECTROCHEMICAL AND MECHANICAL PROPERTIES OF ALLOYS OF THE NIOBIUM-TITANIUM SYSTEM 67-01 M18-57643
EFFECT OF ZIRCONIUM ON THE PROPERTIES OF LOW-CARBON ARSENOUS STEEL 67-11 M17-80863
THE EFFECT OF SMALL ADDITIONS OF COPPER ON THE CORROSION RESISTANCE OF ALUMINIUM AND ALUMINIUM ALLOYS 67-12 M18-81965

ACID RESISTANCE, HEATING EFFECTS
INFLUENCE OF HEAT TREATMENT ON CORROSION OF PURE ZIRCONIUM IN HYDROCHLORIC ACID 67-07 M18-73654

ACID RESISTANCE TESTS
THE CORROSION BEHAVIOR OF PB AND PB ALLOYS IN SULFURIC ACID 3 67-01 M18-58628
INTERGRANULAR CORROSION OF CHROMIUM STEELS IN CONCENTRATED NITRIC ACID 67-01 M18-58705

ACID RESISTANCE TESTS
ANODIC BEHAVIORS OF IRON, IRON CHROMIUM AND IRON-NICKEL ALLOYS IN SULFURIC ACID SOLUTION 67-02 M18-59976
ADDITIVES PREVENT LOW CARBON STEEL CORROSION IN SULFUROUS ACID 67-03 M18-65475
ANODIC POLARIZATION BEHAVIOR OF LOW ALLOY STEELS IN SULFURIC ACID SOLUTIONS 67-03 M18-65757
CORROSION RESISTANCE OF AUSTENITIC STAINLESS STEEL CONTAINING NITROGEN AND THE EFFECT OF RARE-EARTH METALS 67-03 M18-65961
ACID RESISTANT, HIGH-ALLOY SI CAST IRON 67-04 M18-66187
PROBLEMS RELATED TO THE WELDING OF LOW-CARBON AUSTENITIC STAINLESS STEELS 67-04 M18-66641
CORROSION RESISTANCE OF TITANIUM IN NITRIC ACID 67-04 M18-66642
LOCAL CORROSION OF THE ANODE IN THE LOW TEMPERATURE HARD ANODIZING PROCESS OF ALUMINUM 67-04 M18-67594
INHIBITION OF CORROSION OF ALUMINIUM IN SULPHURIC ACID SOLUTIONS 67-04 M18-68166
THE PROBLEM OF PASSIVATION OF NICKEL IN SULFURIC ACID SOLUTIONS 67-05 M18-69824
INVESTIGATION OF CORROSION INHIBITION EFFECT OF NITRIC ACID DURING CORROSION TESTING OF TITANIUM IN SULFURIC ACID SOLUTIONS 67-05 M18-69825
INVESTIGATION OF SOME ACETYLENE COMPOUNDS FOR INHIBITION OF ACID CORROSION 67-05 M18-69833
DEVELOPMENT OF ACCELERATED CORROSION TESTS FOR ELECTROPLATED COATINGS 67-06 M18-71382
ANODIC BEHAVIOR OF AISI 316 STAINLESS STEEL IN A HCLO4-HCL SOLUTION 67-09 M18-76489
PASSIVATION OF NICKEL IN SOLUTIONS OF SULFURIC ACID 67-12 M18-82258
INVESTIGATION OF THE MECHANISM OF PROTECTION OF TITANIUM BY ADDITION OF NITRIC ACID TO SULFURIC ACID SOLUTIONS 67-12 M18-82259
ACID RESISTANCE TESTS, TEMPERATURE EFFECTS
CORROSION OF TITANIUM ALLOYS IN NITRIC ACID AT HIGH TEMPERATURE 67-05 M18-69826
BEHAVIOR OF TITANIUM ALLOYS IN NITRIC ACID AT HIGH TEMPERATURES 67-12 M18-82260
ACIDITY
SEE PH
ACIDS /INORGANIC/
SEE INORGANIC ACIDS
ACOUSTIC DRILLING
SEE DRILLING
SOUND WAVES
ACOUSTIC IMPEDANCE
NONOHMIC AND OSCILLATORY BEHAVIORS AT STRONG ELECTRIC FIELD IN TELLURIUM 67-11 M15-80815
ACOUSTIC INSULATION
RECENT DEVELOPMENTS FOR LEAD IN SOUND CONTROL 67-09 M20-76616
THE USE OF THIN LEAD SHEETS FOR SOUND INSULATING PARTITIONS 67-09 M20-76617
SOUND CONTROL IN DESIGN THROUGH THE USE OF STEEL LAMINATES 67-12 M20-82988
ACOUSTIC MEASUREMENT
VELOCITY OF SOUND AND NONELASTIC PROPERTIES OF METALS 67-01 M15-58198
METHOD OF INVESTIGATING THE TENSILE STRENGTH OF SPECIMENS BY PRESSURE IMPULSE 67-01 M17-57141
NONDESTRUCTIVE TESTING OF COMPOSITE STRUCTURES WITH THE SONIC RESONATOR 67-02 M19-60916
VARIATION OF RESIDUAL STRESS IN THE FATIGUE PROCESS OF INDUCTION HARDENED STEEL 67-05 M17-68531
ULTRASONIC INVESTIGATION OF CU SINGLE CRYSTALS 67-06 M17-71176
MICROPLASTICITY DETECTED BY AN ACOUSTIC TECHNIQUE 67-06 M17-71535
ACOUSTICS AND THIN FILMS 67-08 M17-74722
ACOUSTIC PROPERTIES
ELECTRONIC CONTRIBUTION TO THE NORMAL STATE ULTRASONIC ATTENUATION IN INDIUM 67-01 M16-57958
THEORY OF ULTRASONIC ATTENUATION BY NEUTRAL DONORS IN GERMANIUM 67-01 M16-57960
MAGNETOACOUSTIC ATTENUATION IN BISMUTH 67-02 M15-59475
ACOUSTIC RELAXATIONS IN ZIRCONIUM-NIOBIUM ALLOYS 67-03 M17-65871
ACOUSTOELECTRIC EFFECT IN SEMICONDUCTING CDS 67-04 M16-66776
ULTRASONIC AMPLIFICATION AND NONOHMIC BEHAVIOR IN TELLURIUM 67-04 M16-66777
ACOUSTOELECTRIC PHENOMENA IN TELLURIUM 67-04 M16-66778
MAGNETO-ACOUSTIC RESONANCES IN ANTIMONY 67-04 M16-66797
MAGNETO-ACOUSTIC EFFECTS IN N-INSB AT 9 GHZ 67-04 M16-66798
DETERMINATION OF THE ENERGY BAND PARAMETERS OF BISMUTH BY GIANT QUANTUM ATTENUATION OF SOUND WAVES 67-04 M16-66799
MAGNETOACOUSTIC EFFECT IN THALLIUM 67-05 M15-68285
ELECTRONIC ACOUSTIC ATTENUATION FOR --001-- LONGITUDINAL WAVE PROPAGATION IN COPPER 67-05 M16-69374
ULTRASONIC ATTENUATION IN GALLIUM 67-05 M16-69811
FIELD DEPENDENCE OF ULTRASONIC ATTENUATION IN SEMICONDUCTING ZNO 67-06 M16-70085
AMPLITUDE DEPENDENCE OF ULTRASONIC ATTENUATION IN SINGLE-CRYSTAL COPPER 67-06 M16-71099
EFFECTS OF STRESS ON THE ULTRASONIC ATTENUATION IN A NICKEL SINGLE CRYSTAL 67-06 M17-71289
ULTRASONIC EXAMINATION OF CAST IRON 67-07 M17-73254
THE RELATIONSHIP BETWEEN ELECTRICAL CONDUCTIVITY AND SOUND VELOCITY IN MOLTEN METALS 67-08 M15-74649
HIGH-FREQUENCY EFFECTS IN THE ACOUSTIC ATTENTUATION OF SUPERCONDUCTING ALUMINUM 67-08 M16-74399
FERMI SURFACE OF MAGNESIUM. PT. 1. MAGNETOACOUSTIC ATTENUATION 67-08 M16-74663
THE INFLUENCE OF SURFACE-ACTIVE ADDITIONS, SUBJECTED TO THE ACTION OF AN ULTRASONIC FIELD, ON THE GROWTH OF AN ELECTROLYTIC SINGLE CRYSTAL OF SILVER 67-09 M14-76511
PROPAGATION OF SOULD IN LIQUID METALS 67-09 M15-77757
RESULTS OF INVESTIGATING THE MAGNETOACOUSTICAL EFFECT IN ALUMINUM-BASE ALLOYS 67-10 M15-78358
DISLOCATION RELAXATIONS IN SINGLE-CRYSTAL AND POLYCRYSTALLINE NIOBIUM AND TANTALUM AT MEGAHERTZ FREQUENCIES 67-10 M16-78476
FREQUENCY SPECTRUM OF ACOUSTIC WAVES GENERATED IN PHOTOCONDUCTING CDS IN HIGH ELECTRIC FIELDS 67-10 M16-79407
ACOUSTOELECTRIC OSCILLATIONS WITH FIELD-DEPENDENT PERIOD IN INDIUM ANTIMONIDE 67-12 M15-83010
ACOUSTIC PROPERTIES, HEATING EFFECTS
STUDIES ON SOUND VELOCITY IN HARDENED CHROMIUM STEEL 67-08 M16-75694
ACOUSTICS
PHYSICAL ACOUSTICS, PRINCIPLES AND METHODS. V.3, PT. B. LATTICE DYNAMICS 67-04 M15-66230
PHYSICAL ACOUSTICS, PRINCIPLES AND METHODS. V 3, PT. A. THE EFFECT OF IMPERFECTIONS 67-04 M17-66221
DEVELOPMENT AND APPLICATION OF LOW-NOISE 6.5 PER CENT SI-FE SHEET 67-07 M15-73516
HELICONS AND ACOUSTIC SHEAR WAVES IN AL 67-08 M16-75831
ACRYLIC PLASTICS
SEE ACRYLIC RESINS
ACRYLIC RESINS, COATINGS
NEW WAY TO COAT EXTRUSIONS--PLATE THEM WITH PAINT 67-01 M12-57927
VINYL DISPERSION COATINGS FOR METALS 67-06 M12-70610
ACTINIDE SERIES
SEE ALSO ACTINIUM
AMERICIUM
BERKELIUM
CALIFORNIUM
CURIUM
NEPTUNIUM
PLUTONIUM
PROTACTINIUM
THORIUM
URANIUM
ACTINIDE SERIES, ATOMIC PROPERTIES
THE CHEMISTRY OF THE ACTINIDES 67-10 M16-79435
ACTINIDE SERIES COMPOUNDS
SEE AMERICIUM COMPOUNDS
NEPTUNIUM COMPOUNDS
PLUTONIUM COMPOUNDS
THORIUM COMPOUNDS
URANIUM CARBIDE
URANIUM COMPOUNDS
URANIUM OXIDES
ACTINIUM, EXTRACTION

STUDIES OF ACTINIUM --3-- IN VARIOUS SOLUTIONS. PT. 1. SEPARATION AND PURIFICATION OF AC228 IN RA228 SOLUTIONS BY SOLVENT EXTRACTION METHOD 67-11 M16-80197

ACTINOCHEMISTRY
SEE PHOTOCHEMISTRY

ACTIVATED CARBON
USING ACTIVATED CARBON IN THE FILTERLESS TREATMENT OF GOLD-BEARING ORES 67-05 M03-68964

ACTIVATED CHARCOAL
SEE ACTIVATED CARBON

ACTIVATED SINTERING
THE KINETICS OF METALLIC ACTIVATION SINTERING OF TUNGSTEN 67-08 M09-75292
ACTIVATION SINTERING OF TUNGSTEN WITH ADDITIONS OF PALLADIUM 67-12 M09-82207
ACTIVATED SINTERING OF TUNGSTEN AND MOLYBDENUM POWDERS 67-12 M09-82209

ACTIVATION
SEE ALSO SURFACE ACTIVATION
DIFFUSION OF IRON IN SOME MOLTEN NONFERROUS METALS 67-01 M14-57515
INVESTIGATIONS OF THE KINETICS OF SOLUTION OF PRECIPITATES IN A BINARY ALCU-ALLOY AND THE EFFECT OF ADDITIONS OF MAGNESIUM, MANGANESE, SILICON, ZINC AND IRON 67-01 M14-58223
MEASUREMENT OF THE SURFACE SELF-DIFFUSION COEFFICIENT OF SILVER BY THE TRACER TECHNIQUE 67-02 M14-59753
THERMALLY ACTIVATED SLIP IN ZN CRYSTALS 67-02 M14-61892
ELECTRICAL RESISTANCE AND THERMOELECTRIC POWER OF URANIUM DURING OXIDATION AT .001 TORR FROM 500 TO 800 C 67-02 M15-59048
THE DIFFUSION ACTIVATION ENERGY OF INTERSTITIAL ELEMENTS IN TRANSITION METALS WITH A BODY-CENTERED LATTICE 67-04 M14-67916
THE DETERMINATION OF THE TEMPERATURE DEPENDENCE PARAMETERS OF THE DIFFUSION COEFFICIENT BY THE METHOD OF REDUCED TIME 67-05 M14-69609

ACTIVATION, TEMPERATURE EFFECTS
DIFFUSION IN THE PLUTONIUM-URANIUM SYSTEM 67-02 M14-60747

ACTIVATION ENERGY
SEE FREE ENERGY OF ACTIVATION

ACTIVATION ENTROPY
SEE ENTROPY
ENTROPY OF ACTIVATION

ACTIVITY /CHEMICAL/
THE INFLUENCE OF VANADIUM ON THE ACTIVITY OF CARBON IN THE FE-C-V SYSTEM AT 1000 C., CORRELATION OF THE INFLUENCE OF SUBSTITUTIONAL SOLUTES ON THE ACTIVITY COEFFICIENT OF CARBON IN IRON-BASE SYSTEMS 67-01 M14-57417
ACTIVITY OF SULFUR IN FE-S MELTS 67-02 M14-60053
THE ELECTROCHEMICAL MEASUREMENT OF THE ACTIVITY AND DIFFUSION OF OXYGEN IN METALS WITH ZIRCONIUM DIOXIDE AS THE SOLID ELECTROLYTE 67-02 M14-60825
THE SOLUBILITY OF NITROGEN IN MULTICOMPONENT LIQUID IRON ALLOYS 67-03 M14-65081
THERMODYNAMIC PROPERTIES OF COPPER-PLATINUM ALLOYS 67-03 M15-65098
ESTIMATION BY THE PARTITION METHOD OF THE ACTIVITY OF SMALL AMOUNTS OF IRON IN LIQUID BERYLLIUM AT 1645 K 67-03 M15-65238
STUDY OF ACTIVITY OF PHOSPHORUS IN IRON-PHOSPHORUS MELTS 67-03 M15-65954
THE EFFECT OF SULFUR, PHOSPHORUS AND SILICON ADDITIVES ON THE ACTIVITY AND TYPE OF CORROSION OF NICKEL ANODES 67-03 M18-65417
HOW NICKEL AFFECTS THE KINETICS OF IRON DESULFURIZATION BY A LIME-ALUMINA SLAG AT 1600 C 67-04 M04-67445
EFFECT OF OXYGEN ON ACTIVITY OF SULFUR DISSOLVED IN MOLTEN IRON AT 1600 C 67-04 M14-66904
EFFECT OF ALLOYING ELEMENTS ON THE ACTIVITY OF SULFUR DISSOLVED IN MOLTEN IRON AT 1600 C 67-04 M14-66905
EFFECT OF ALUMINUM ON THE ACTIVITY OF OXYGEN DISSOLVED IN MOLTEN IRON 67-04 M14-66953
RELATIONSHIP OF ACTIVITY COEFFICIENT OF ZINC OXIDE TO SLAG COMPOSITION 67-05 M03-68225
NONMETALLIC ELEMENTS DISSOLVED IN MOLTEN ALLOY STEELS 67-05 M04-68471
THE PROCESS OF TA AND PT ACTIVATION BY THORIUM AND THORIUM OXIDES 67-05 M15-68605
PLATINUM METAL ALLOYS IN ELECTROCATALYSIS. A FURTHER EVALUATION OF RELATIVE ACTIVITIES 67-05 M15-69288
CHEMICAL EQUILIBRIUM AND ITS APPLICATION TO METALLURGICAL REACTIONS 67-06 M04-71193
INTRODUCTION OF C14 INTO IRON AND NICKEL ALLOYS 67-06 M10-71338
EQUILIBRIA IN THE IRON-CARBON-OXYGEN SYSTEM IN THE TEMPERATURE AND CONCENTRATION RANGE OF LIQUID STEEL, AND HOW IT IS INFLUENCED BY PHOSPHORUS, MANGANESE, AND SULPHUR 67-06 M13-70257
THE EFFECT OF THE SURFACE CHARACTERISTICS OF 18/8 AUSTENITIC STAINLESS STEEL UPON MICROGRAPHIC ETCHING 67-06 M13-71503
INFLUENCING SULPHUR ACTIVITY IN CARBON-SATURATED HOT METAL BY ADDING MANGANESE, PHOSPHORUS, OR CHROMIUM 67-06 M14-70256
THE NATURE OF ACTIVITY AND ITS THEORETICAL DETERMINATION IN BINARY IRON ALLOYS 67-06 M15-70265
EFFECT OF COBALT ON THE ACTIVITY OF SULFUR IN LIQUID IRON 67-06 M15-72071
DIRECT ELECTROCHEMICAL DETERMINATION OF THE OXYGEN CONCENTRATION IN LIQUID IRON. PT. 2. EFFECT OF PHOSPHORUS, SULFUR AND CARBON ON THE ACTIVITY OF THE OXYGEN DISSOLVED IN LIQUID IRON 67-07 M04-72719
THE REACTIVITY OF LIQUID METALS 67-08 M14-75555
THE EFFECT OF ADDITIONS OF MANGANESE, VANADIUM AND CHROMIUM ON THE ACTIVITY OF OXYGEN IN MOLTEN IRON 67-08 M14-76051
CARBON ACTIVITY IN THE GAMMA AND ALPHA RANGES OF FE-C-SI ALLOYS 67-08 M15-75678
ACTIVITY OF MAGNESIUM CHLORIDE AND HYDROXYCHLORIDE IN MAGNESIUM BATH MELTS 67-09 M03-77117
MEASUREMENT OF CARBON SOLUBILITY AND ELECTROCHEMICAL DETERMINATION OF MANGANESE ACTIVITY IN CARBON-SATURATED MN-CO-C AND MN-NI-C SYSTEMS AT 1320 C 67-09 M14-78014
THE ACTIVITY OF COPPER IN SOLID COPPER-PLATINUM ALLOYS AND SOME OBSERVATIONS ON THE ORDERING OF CU3PT 67-09 M15-77926
THERMODYNAMICS OF PYRRHOTITE IN THE TEMPERATURE RANGE OF 800 TO 1100 C 67-09 M15-77993
THERMODYNAMIC INTERACTION BETWEEN ZINC AND THE DILUTE SOLUTES ANTIMONY, BISMUTH, AND CADMIUM IN SOLUTION IN LIQUID LEAD 67-10 M15-79964
THE ACTIVITY OF IRON OXIDE IN SILICA-SATURATED SLAGS 67-11 M04-80796
THERMODYNAMIC CHARACTERISTICS OF ELECTROLESS CHROMIUM PLATING 67-12 M12-83085
ACTIVITIES OF MOLTEN TIN ALLOYS FROM EMF MEASUREMENTS 67-12 M15-82458
THE INFLUENCE OF DISPLACEMENT REACTIONS ON THE ELECTROCHEMICAL DETERMINATION OF THE ACTIVITY COEFFICIENT OF ONE CONSTITUENT IN A BINARY ALLOY 67-12 M15-82593
MEASUREMENT OF OXYGEN ACTIVITY IN IRON, IRON-SILICON MANGANESE, AND IRON-MANGANESE MELTS USING SOLID ELECTROLYTE GALVANIC CELLS 67-12 M15-82741
ACTIVITY OF INTERSTITIAL AND NONMETALLIC SOLUTES IN DILUTE METALLIC SOLUTIONS--LATTICE RATIO AS A CONCENTRATION VARIABLE 67-12 M15-82750
THERMODYNAMICS OF IRON-PLATINUM ALLOYS 67-12 M15-82751
THERMODYNAMIC INTERACTIONS AND LIQUIDUS PHASE BOUNDARIES IN THE LEAD CORNER OF THE PB-ZN-AG AND PB-ZN-AU SYSTEMS 67-12 M15-82754
EQUIVALENT EFFECT OF ADDITION ELEMENTS ON ALLOYS FE-N-XI AT 1600 C SOLUBILITY, ACTIVITY, AND ACTIVITY COEFFICIENTS OF NITROGEN IN IRON-RICH MELTS. PT. 1. TERNARY 67-12 M15-83392

ACTIVITY /CHEMICAL/, ALLOYING EFFECTS
THE INFLUENCE OF ADDITIVE ELEMENTS ON THE ACTIVITY COEFFICIENT OF SULFUR IN LIQUID LEAD AT 600 C 67-02 M14-59424
INVESTIGATION OF THE ACTIVITY OF PHOSPHORUS IN LIQUID IRON 67-08 M14-75658
THE EFFECT OF SULFUR ON THE ACTIVITY OF OXYGEN IN IRON, COBALT AND NICKEL MELTS AT 1600 C 67-08 M14-75659
THE INFLUENCE OF CO, MO, NI, V AND W ON THE ACTIVITY OF C IN LIQUID STEEL WITH HIGHER C CONTENTS 67-12 M15-82395
SOLUTE INTERACTIONS WITH ZINC IN DILUTE SOLUTION WITH MOLTEN BISMUTH. PT. 2. FOUR- AND FIVE-COMPONENT SOLUTIONS 67-12 M15-82580

ACTIVITY /CHEMICAL/

THERMODYNAMIC PROPERTIES OF LIQUID MAGNESIUM-LEAD ALLOYS 67-12 M15-82581

ACTIVITY /CHEMICAL/, BINARY SYSTEMS
APPLICATION OF CHEMICAL ACTIVITY IN METALLURGY 67-11 M14-80803

ACTIVITY COEFFICIENTS
SEE ACTIVITY /CHEMICAL/

ACURAD PROCESS
SEE DIE CASTING

ADDITION RESINS
SEE ACRYLIC RESINS
POLYVINYL CHLORIDE
VINYL RESINS

ADDITIVES
TRANSMUTATION DOPING AND RECOIL EFFECTS IN SEMICONDUCTORS EXPOSED TO THERMAL NEUTRONS 67-04 M16-67308
CONTROLLING ADDITIVES IN PYROPHOSPHATE COPPER PLATING 67-06 M12-70233

ADHESION
RIGID TEST BODY FOR METAL ADHESIVES 67-01 M11-58299
ON THE MECHANISM OF FORMING COATINGS WITH POWDERED METAL 67-01 M12-57318
A PHOTOMETRIC METHOD FOR DETERMINING REFLECTIVITY AND ADHERENCE OF DEPOSITED METAL 67-03 M12-65104
CHARACTERIZATION OF ELECTROLYTES AND ELECTRODEPOSITS 67-04 M12-67393
THE ADHESION TEMPERATURE BETWEEN GLASS AND METALS 67-04 M12-67421
ELECTRODEPOSITION OF ALLOYS FROM THE SULFAMATE BATH --NICKEL-CHROMIUM AND COBALT-ZINC 67-04 M12-67428
ADHESION OF NITRIDES TO STEEL AND SLAG 67-06 M15-70266
PHOTOMETRIC METHOD OF DETERMINING THE REFLECTING POWER OF DEPOSITED METAL AND ITS ADHESION TO THE SUBSTRATE 67-07 M12-72788
SOME FUNDAMENTAL PROBLEMS IN THE MEASUREMENT OF STICKING PROBABILITIES OF GASES ON METAL FILMS 67-07 M15-74265
THE INFLUENCE OF VARIOUS PHYSICAL PROPERTIES OF METALS ON THEIR FRICTION AND WEAR BEHAVIOR IN VACUUM 67-07 M17-74054
COLORED FINISHES FOR COPPER AND COPPER ALLOYS USING SELENIOUS ACID 67-08 M12-74612
THE ADHERENCE OF ZINC COATS ON STEEL WIRE 67-08 M12-75074
ADHESION OF VACUUM DEPOSITED THIN METAL FILMS 67-08 M12-75176
THE OXIDATION OF VACUUM DEPOSITED THIN FILMS IN A JET STREAM OF O2 67-08 M12-75179
PORCELAIN ENAMEL ADHERENCE TO LOW CARBON STEEL. PT. 1 67-08 M12-75538
THE ADHERENCE OF PORCELAIN ENAMEL TO LOW-CARBON STEEL 67-08 M12-75564
ADHESION STRENGTH OF LAYERS IN BIMETAL SHEETS UNDER INTERMITTENT STATIC LOADS 67-08 M17-74531
INTERACTION OF INGOT SKIN WITH COPPER WATER-COOLED WALL OF THE CONTINUOUS CASTING MOLD 67-09 M04-77626
THE IMPORTANCE OF MOULDING CONDITIONS TO THE QUALITY OF ELECTROPLATED ABS PLASTICS 67-09 M12-77537
ADHERENCE AND WETTABILITY OF NICKEL, NICKEL-TITANIUM ALLOYS, AND NICKEL-CHROMIUM ALLOYS TO SAPPHIRE 67-09 M12-77717
PORCELAIN ENAMEL ADHERENCE TO LOW CARBON STEEL 67-09 M12-78297
INFLUENCE OF OXIDE FILMS ON FRICTION AND WEAR DURING SLIDING 67-09 M17-76369
METHODS OF TESTING THE ADHESION OF METAL COATINGS TO METALS 67-09 M17-76665
BASIC INVESTIGATION OF BUILT-UP EDGE 67-10 M08-79880
INFLUENCE OF OXIDANTS ADDED TO THE PICKLING SOLUTION ON ADHESION OF ENAMEL COATINGS TO THE STEEL 67-10 M12-78534
INTERACTION BETWEEN THE SKIN OF CONTINUOUS CAST BILLETS AND THE WATER-COOLED COPPER WALLS OF THE MOULD 67-11 M04-80914
EVAPORATED METAL FILMS ON FERROELECTRIC CRYSTALS 67-11 M15-81474
ADHESION OF STEELS IN THE PRODUCTION OF BIMETALLIC CASTINGS 67-12 M06-83038
STUDY OF THE STRUCTURE AND PROPERTIES OF ROLLS AFTER VACUUM HOT ROLLING OF MOLYBDENUM 67-12 M07-83538

ADHESIVE BONDING
ADHESIVE BONDS IN AIRCRAFT AND SPACECRAFT MANUFACTURE 67-01 M11-58265
ADHESIVE BONDING OF ALUMINIUM STRUCTURAL COMPONENTS--PRACTICE AT HOME AND ABROAD. PT. 2 67-01 M11-58300
ADHESIVE ASSEMBLY 67-01 M11-58516
THE BEHAVIOR OF BONDED METAL JOINTS UNDER OSCILLATING LOADS 67-01 M17-58264
NEW STICK FOR METALS 67-02 M11-59016
JOINING OF LIGHT ALLOYS BY COLD SETTING USING A CHEMICAL ADHESIVE 67-02 M11-59530
MECHANICAL RESISTANCE OF CEMENTED JOINTS 67-02 M11-60108
ADHESIVE BONDING DIE CASTINGS 67-02 M11-60994
ADHESIVE-BONDED JOINTS BETWEEN METALS 67-02 M11-61048
STRUCTURAL ADHESIVES BOND METAL GLASS AND RUBBER 67-02 M11-61858
BONDING IN METAL STRUCTURE FABRICATING 67-02 M12-59563
HOW TO USE EXOTIC MATERIALS IN AEROSPACE STRUCTURES 67-02 M20-61623
STAINLESS STEEL HELICOPTER BLADES.. THEY GO WHERE THE ACTION IS 67-03 M07-65014
ADHESIVES JOIN CURVED PARTS 67-04 M11-66382
HOW OXIDES OF ALUMINUM AFFECT BOND STRENGTH 67-04 M11-67069
MECHANICAL STRENGTH PROPERTIES OF ADHESIVE BONDED JOINTS AND EFFECT OF AGING CONDITIONS 67-04 M17-66397
HOW TO USE FLUOROCARBON PLASTICS AS BONDING AGENTS 67-05 M11-68699
THE ADHESIVE BONDING OF METALS WITH DIFFERENT COEFFICIENTS OF THERMAL EXPANSION 67-05 M11-68939
THE ADHESIVE BONDING OF ZN, CU, BRASS AND BROWN-FINISHED STEEL 67-05 M11-69033
INVESTIGATION OF ADHESIVELY BONDED TUBE JOINTS OF ALUMINUM 67-05 M11-69034
EFFECT OF THICKNESS OF GLUE FILM ON THE LIFE OF GLUED METAL JOINTS IN WATER 67-05 M11-69043
ADHESIVE BONDING OF STEEL 67-05 M11-69892
THE ADHESIVE BONDING OF CU AND ITS ALLOYS 67-05 M12-68512
COMPOSITE BULKHEAD FABRICATION DEVELOPMENT 67-06 M11-70006
TIN-FREE STEEL CANS RUN HOT AND COLD 67-06 M11-70500
THE STATUS AND DEVELOPMENT TRENDS IN THE ADHESIVE BONDING OF METALS INCLUDING RECENT RESEARCH RESULTS 67-06 M11-71221
BONDING COPTER BLADES 67-06 M11-71489
THE TECHNOLOGY OF THE ADHESIVE BONDING OF METALS 67-06 M18-71554
STRUCTURAL EPOXY ADHESIVES 67-07 M11-72803
ADHESIVE BONDING--HOW IT IMPROVED APOLLO 67-07 M11-72989
NEW HIGH TEMPERATURE ADHESIVES--EASIER TO APPLY, STAND MORE HEAT 67-07 M11-73333
ADHESION AND ADHESIVES. V. 2. APPLICATIONS 67-07 M11-73724
POSTFORMABLE ADHESIVELY BONDED METAL LAMINATES 67-07 M11-73844
HOT SPRAY ADHESIVES SPEED PRODUCTION OF SANDWICH PANELS 67-07 M11-73845
A LAMINATING RESIN IS USEFUL TO WIRE AND CABLE PRODUCERS 67-07 M11-73846
ADHESIVE BONDING 67-08 M11-74852
APPLYING CARBIDE COATINGS BY ADHESIVE BONDING 67-08 M12-74492
INVESTIGATIONS INTO THE LONG-TIME BEHAVIOR OF COMBINED BONDED AND SPOT WELDED JOINTS 67-09 M11-77338
HOW AND WHY ADHESIVES BOND 67-09 M11-77391
ADHESIVE BONDING ALCOA ALUMINUM 67-09 M11-78035
METALLIC COATINGS SOLVE ENVIRONMENTAL PROBLEMS 67-09 M12-76469
METALLIC ADHESION OF ALUMINUM PROFILES 67-10 M11-79238
FABRICATION METHODS FOR PBI ADHESIVE BERYLLIUM SANDWICH STRUCTURES 67-10 M11-79436
ADHESION THEORY--INITIAL CONSIDERATIONS, DESIGN REQUIREMENTS AND BONDING AGENTS 67-10 M11-79689
THE ADHESION AND BONDING OF CAOUTCHOUC-ELASTIC MATERIALS WITH SPECIAL REGARD TO RUBBER-METAL

BONDING 67-11 M12-80496
INFLUENCE OF TECHNOLOGICAL FACTORS ON STRENGTH OF ADHESIVE BONDS 67-12 M11-81776
ADHESIVE BONDING 67-12 M11-83155
EVALUATING ADHESIVES FOR HYDROFOILS 67-12 M12-82144
FRACTURE TOUGHNESS OF 7075-T6 AND -T651 SHEET, PLATE, AND MULTILAYERED ADHESIVE-BONDED PANELS 67-12 M17-83244

ADHESIVE STRENGTH
THE BEHAVIOR OF BONDED METAL JOINTS UNDER OSCILLATING LOADS 67-01 M17-58264
FORCES BINDING PLASMA COATINGS TO THE BASE 67-04 M12-67338
THE ADHESION TEMPERATURE BETWEEN GLASS AND METALS 67-04 M12-67421
THE CALCULATION OF ADHESIVE JOINTS OF METALS 67-05 M17-68938
THE TECHNOLOGY OF THE ADHESIVE BONDING OF METALS 67-06 M18-71554
ENAMELLED STEELS--THEIR PROPERTIES AND APPLICATION 67-07 M12-74018
INVESTIGATIONS INTO THE LONG-TIME BEHAVIOR OF COMBINED BONDED AND SPOT WELDED JOINTS 67-09 M11-77338
ADHERENCE TO CERAMIC COMPONENTS OF METAL LAYERS WHICH ARE DIFFICULT TO SEAL 67-09 M12-76749
SURFACE PREPARATION AND ITS RELATIONSHIP TO WEAKNESS OF A COATING 67-09 M12-77813
THE ADHESION TESTING OF ELECTROPLATED COATINGS ON A B S MOLDINGS 67-09 M17-77540
BOND STRENGTH OF WHITE METALLING 67-11 M12-81246
DETERMINING THE ADHESION STRENGTH OF COPPER AND NICKEL COATINGS TO A STEEL BASE BY THE LARGE CENTRIFUGAL FIELDS METHOD 67-11 M17-81299
INVESTIGATIONS OF THE ENAMEL ADHESION TO STEEL SHEET 67-12 M12-83400
PROPERTIES OF ELECTRODEPOSITED AG-CU ALLOYS. PT. 4. METALLURGICAL STUDIES ON ELECTRICAL CONTACT MATERIALS 67-12 M12-83509
ADHESION OF SPUTTERED GOLD FILMS ON GLASS 67-12 M12-83548

ADHESIVE STRENGTH, HEATING EFFECTS
INFLUENCES OF THERMOPLASTIC CONVERSION OF A B S POLYMERS ON THE SUBSEQUENT CHEMICAL-ELECTROLYTIC METAL DEPOSITION 67-09 M12-77538

ADHESIVES
SEE ALSO BINDERS /ADHESIVES/
THERMOPLASTIC ADHESIVES
ADHESIVES TAKE BIG STEP AHEAD AS PARTNERS OF FASTENERS 67-05 M11-68810
BONDING COPTER BLADES 67-06 M11-71489
NEW HIGH TEMPERATURE ADHESIVES--EASIER TO APPLY, STAND MORE HEAT 67-07 M11-73333

ADHESIVES, MECHANICAL PROPERTIES
RIGID TEST BODY FOR METAL ADHESIVES 67-01 M11-58299

ADHESIVITY
SEE ADHESION

ADSORPTION
THE ADSORPTION OF SULFUR ON COPPER 67-01 M14-57422
THE EFFECT OF ADSORBED SULFUR ON THE SURFACE SELF-DIFFUSION OF COPPER 67-01 M14-57423
CONDENSATION COEFFICIENTS OF GOLD ON NACL SINGLE CRYSTALS 67-01 M15-57445
THE EFFECT OF OXYGEN ADSORPTION ON THE OXYGEN ANALYSIS OF HIGH-CARBON IRON SPECIMEN CONTAINING GRAPHITE 67-02 M06-59124
ADSORPTION OF CARBON MONOXIDE ON THE --110-- FACE OF NICKEL 67-02 M14-62190
ROLE OF OXYGEN IN THE ADSORPTIVE DECREASE IN STRENGTH OF STEEL SPECIMENS IN CONTACT WITH A MELT 67-02 M17-59657
EFFECT OF METALS DISSOLVED IN MERCURY ON THE ADSORPTIVE DECREASE IN STRENGTH OF ZINC 67-02 M17-59658
CATHODIC POLARIZATION AND KINETICS OF ADSORPTION OF OXYGEN ON METALS 67-02 M18-58930
NEW WAY TO WIN MOLY 67-03 M02-65115
EFFECTS OF ADSORPTION ON STRENGTH 67-03 M14-65343
THE ROLE OF ADSORPTION IN HETEROGENEOUS VAPOR-SOLID NUCLEATION 67-03 M14-65391
INVESTIGATION OF THE ADSORPTION OF LITHIUM ON THE SURFACE OF A TUNGSTEN SINGLE CRYSTAL IN A FIELD-EMISSION PROJECTOR 67-03 M14-65630
FIRST CHEMICAL ROUTE FOR MOLYBDENUM PROCESSING 67-04 M02-66331
LATTICE DEFECTS AND SURFACE PROPERTIES OF CLEAN GERMANIUM 67-04 M13-67738
ADSORPTION OF CO ON A TUNGSTEN --100-- SURFACE 67-04 M14-67432
NITROGEN ON RHENIUM OBSERVED WITH THE FIELD EMISSION MICROSCOPE 67-04 M14-67742
INVESTIGATION OF SURFACE REACTIONS BY LOW ENERGY ELECTRON DIFFRACTION --LEED-- 67-04 M14-67743
REACTION OF ALUMINA WITH CESIUM VAPOR 67-04 M14-67759
THE INFLUENCE OF OXYGEN AND HYDROGEN ON THE ELECTRICAL CONDUCTIVITY OF IRON THIN FILMS 67-04 M15-67241
FIELD-EMISSION MICROSCOPY OF GERMANIUM 67-05 M13-69769
ADSORPTION OF NITROGEN ON THE --113-- PLANE OF TUNGSTEN SINGLE CRYSTALS 67-05 M15-68574
THE ADSORPTION OF CARBON DIOXIDE ON CARBON SOLIDS. PT. 1. GRAPHITE AND DIAMOND AT 0 K 67-05 M15-69597
THE TRANSITION FROM THE LINEAR TO THE PARABOLIC RATE LAW FOR THE OXIDATION OF A METAL TO AN OXIDE WITH A METAL DEFICIT 67-05 M18-69149
CESIUM ADSORPTION ON THE FACES OF A TUNGSTEN SINGLE CRYSTAL 67-06 M14-70512
MECHANISM OF THE SORPTION OF OXYGEN ON THE --100-- FACE OF A TUNGSTEN SINGLE CRYSTAL 67-06 M15-70870
A LEED STUDY OF CO AND CO2 ADSORPTION ON MO --110-- 67-06 M15-71022
LEED MEASUREMENT OF H2S AND H2SE ADSORPTION ON GERMANIUM --111-- 67-06 M15-71028
ADSORPTION OF NITROGEN AND CARBON MONOXIDE ON MOLYBDENUM 67-06 M15-71043
ADSORPTION AND ELECTRON EMISSION OF ALKALINE-EARTH METAL FILMS ON TUNGSTEN, IRIDIUM, AND RHODIUM 67-06 M16-70508
EMISSION AND ADSORPTION PROPERTIES OF THE W-LA SYSTEM 67-06 M16-70510
INVESTIGATION OF ADSORPTION OF CESIUM ON A TUNGSTEN SINGLE CRYSTAL 67-06 M16-71911
WASHING RED MUD FROM ALUMINATE SOLUTIONS 67-07 M02-73414
ADSORPTION, ABSORPTION, AND DEGASSING IN THE OXYGEN-NIOBIUM SYSTEM AT VERY LOW PRESSURE 67-07 M14-73453
THE INFLUENCE OF THE OXYGEN ADSORPTION ON THE SURFACE ENERGY OF FCC NICKEL AND BCC SILICON IRON 67-07 M15-73927
ADSORPTION OF OXYGEN ON ATOMICALLY CLEAN GERMANIUM SURFACES EXAMINED IN THE FIELD EMISSION MICROSCOPE 67-07 M16-73607
SOLUBILITY OF HYDROGEN IN TITANIUM AT 900 TO 1500 C 67-08 M14-74412
THE ADSORPTION OF OXYGEN ON DISCONTINUOUS METAL FILMS 67-08 M14-75046
ION BOMBARDMENT OF W BY INERT-GAS IONS AND SUBSEQUENT ADSORPTION OF O2 AS OBSERVED IN THE FIELD EMISSION MICROSCOPE 67-08 M14-75047
ADSORPTION ON NIOBIUM --110--, TANTALUM --110--, AND VANADIUM --110-- SURFACES 67-08 M14-75336
THE ADSORPTION KINETICS OF HYDROGEN IN SUSPENSIONS OF METALLIC CATALYSTS. PT. 2 67-08 M14-75641
THE CHEMISORPTION OF CARBON MONOXIDE ON POLYCRYSTALLINE MOLYBDENUM 67-08 M14-75920
DISSOLUTION AND MOBILITY OF HYDROGEN IN COPPER. PT. 1. QUALITATIVE STUDY 67-08 M14-76212
THE ADSORPTION OF CO GAS BY METALS SUPPORTED ON SILICA 67-09 M14-76486
STRUCTURE AND GROWTH OF THIN FILMS ON METALS EXPOSED TO OXYGEN 67-09 M14-76645
ANODIC BEHAVIOR OF AISI 316 STAINLESS STEEL IN A HCLO4-HCL SOLUTION 67-09 M18-76489
THE ADSORPTION OF DEHYDROABIETYLAMINE ACETATE ON SYNTHETIC RUTILE 67-10 M02-79950
ADSORPTION OF OXYGEN ON TUNGSTEN AT TEMPERATURES FROM 300 TO 850 K 67-10 M14-78875
SURFACE STRUCTURES ON SPHERICAL COPPER CRYSTALS AFTER ADSORPTION OF OXYGEN 67-10 M14-79556
THERMALLY ORDERED OXYGEN ON A NICKEL SURFACE 67-10 M14-79572
DETERMINATION OF THE COMPOSITION OF THE ADSORPTION LAYER OF S ON CU --111-- 67-10 M14-79897
ADSORPTION AND ELECTRON EMISSION OF POTASSIUM FILMS ON TUNGSTEN SINGLE CRYSTAL FACES 67-10 M15-79443

ADSORPTION

INFLUENCE OF ADSORPTION OF CS, BA, TH AND CU ATOMS AND OF AN ELECTRIC FIELD ON THE HALL EFFECT AND ELECTRIC CONDUCTIVITY OF THIN NICKEL FILMS 67-10 M15-79649
THE KINETICS OF PROPANE ADSORPTION ON PLATINUM IN HYDROFLUORIC ACID 67-10 M15-79961
STUDY OF BARIUM ADSORPTION ON GERMANIUM BY FIELD-EMISSION MICROSCOPY 67-10 M16-79021
CONNECTION BETWEEN THE SHAPE OF THE PHASE DIAGRAM AND THAT OF THE SURFACE TENSION AND ADSORPTION ISOTHERMS IN BINARY SYSTEMS OF METALS AND SEMICONDUCTORS 67-11 M14-80165
ELECTRON MICROSCOPIC ANALYSIS OF NUCLEATION IN MERCURY 67-11 M14-80228
DECARBURIZATION OF IRON-CARBON MELTS IN CO2-CO ATMOSPHERES--KINETICS OF GAS-METAL SURFACE REACTIONS 67-12 M04-82955
LIQUID AND SOLID CESIUM ON A RHENIUM SUBSTRATE 67-12 M14-82376
ADSORPTION OF GASES ON CHROMIUM FILMS 67-12 M14-82671
SURFACE IONIZATION OF SOME RARE EARTH ELEMENTS ON HOT POLYCRYSTALLINE TUNGSTEN SURFACE 67-12 M16-81769

ADSORPTION, DIFFUSION EFFECTS
KINETIC STUDY OF HIGH-TEMPERATURE OXIDATION OF HF 67-08 M14-75295

ADSORPTIVITY
STUDY OF ADSORPTION OF OXYGEN IN GRAY IRON 67-02 M14-59730

AERODYNAMICS
SUPERSONIC TRANSPORT DESIGN EVOLUTION 67-02 M20-61136

AEROSOLS, REACTIONS /CHEMICAL/
EXPLOSIVE PRESSURE OF NICKEL ALLOY AEROSOLS 67-11 M15-81644

AEROSPACE
NEW DEVELOPMENTS IN SURFACE TREATMENT IN THE AEROSPACE INDUSTRY 67-01 M12-58302
NONFERROUS METALS AND THE CHEMICAL ENGINEER. PT. 1. TITANIUM 67-02 M01-61140
PRECISION CHEMICAL MILLING OF AEROSPACE COMPONENTS 67-06 M08-71480
SYSTEMATIC APPROACHES TO MACHINING DATA FOR AEROSPACE ALLOYS 67-06 M08-71482
EMERGING AEROSPACE MATERIALS AND FABRICATION TECHNIQUES 67-06 M20-72200
DIFFUSION BONDING TECHNIQUES CHANGING AEROSPACE INDUSTRY 67-07 M11-73695
METAL RESEARCH FOR SPACE ENGINEERING 67-07 M20-73128
AIRCRAFT AND AEROSPACE APPLICATIONS 67-08 M20-74831
DESIGN CONSIDERATIONS FOR AEROSPACE FORGINGS 67-09 M07-77184
A REVIEW OF CRYOGENIC FRACTURE TOUGHNESS BEHAVIOR 67-09 M17-77303
PROTECTING REFRACTORY METALS AGAINST OXIDATION 67-10 M18-79374

AEROSPACE, CASTINGS
AEROSPACE CASTINGS PRODUCED FROM MAGNESIUM-LITHIUM-SILICON ALLOY 67-05 M06-68684

AEROSPACE, COATINGS
DEVELOPMENTS IN METAL COATINGS AT LOCKHEED MISSILES 67-06 M12-70642

AEROSPACE, FASTENERS
FAILURE ANALYSIS OF HIGH STRENGTH STAINLESS STEELS IN SPACE LAUNCH VEHICLES 67-04 M17-66688

AEROSPACE, MACHINING
METAL SPINNING TOOLS UP FOR SPACE AGE JOBS 67-06 M08-70680

AEROSPACE, MATERIALS
COATINGS ON REFRACTORY METALS. PT. 3 67-01 M12-58004
TITANIUM AS AN AEROSPACE MATERIAL 67-01 M17-57456
THE 9NI-4CO STEELS 67-02 M01-60930
HOW TO USE EXOTIC MATERIALS IN AEROSPACE STRUCTURES 67-02 M20-61623
USAF SETS SIGHTS ON METALS PROBLEMS 67-03 M01-65467
AEROSPACE STRUCTURAL METALS HANDBOOK. V 2 A. NON-FERROUS HEAT RESISTANT ALLOYS 67-03 M01-66000
CASTING HOT-SIZING DIES FOR TITANIUM 67-03 M06-65767
FORGING AND SOLUTION TREATING ALLOY 718 67-03 M10-65977
ELECTRON BEAM WELDING 67-03 M11-65023
AEROSPACE STRUCTURAL METALS HANDBOOK. V2. NON-FERROUS LIGHT METAL ALLOYS 67-04 M01-66200
METALS 67-04 M01-67537
HALF-TON ALLOY CASTINGS POURED IN VACUUM INVESTMENT FURNACE 67-04 M06-66504
REFRACTORY METALS IN AEROSPACE PROPULSION 67-04 M20-66117
AIR FORCE SEEKS METALWORKING ADVANCES 67-05 M09-68342
STAINLESS AND SPECIAL ALLOY STEELS 67-05 M20-69547
LARGE STIFFENED CYLINDER WEIGHT--COST COMPARISONS BETWEEN BE-38 PER CENT AL AND OTHER MATERIALS 67-06 M20-70613
MATERIALS IN SPACE TECHNOLOGY 67-06 M20-70831
DESIGNATIONS OF ALLOYS FOR THE AEROSPACE INDUSTRY 67-08 M19-75941

AEROSPACE ENGINES
SEE ALSO BOOSTER ROCKETS
ROCKET ENGINES
DROP FORGING. A SURVEY OF THE INDUSTRY IN THE U. K. 67-07 M07-72759
BORON-FILAMENT REINFORCED PLASTIC COMPOSITES FOR AIRCRAFT STRUCTURES 67-07 M09-73721
MAGNETIC MATERIALS FOR SPACE POWER SYSTEMS 67-07 M20-73531
AIRCRAFT AND AEROSPACE APPLICATIONS 67-08 M20-74831
RECENT REFRACTORY ALLOYS USED IN TURBOJET ENGINE CONSTRUCTION 67-12 M20-83375

AEROSPACE ENGINES, CORROSION
HOT CORROSION OF GAS TURBINE ALLOYS 67-06 M18-70491

AEROSPACE ENGINES, PHYSICAL PROPERTIES
FLAMMABILITY OF MAGNESIUM 67-12 M15-82072

AEROSTATICS
SEE AERODYNAMICS

AFTERCOOLERS
SEE COOLERS

AGE HARDENING
SEE PRECIPITATION HARDENING

AGE HARDENING STEELS
SEE PRECIPITATION HARDENING STEELS

AGE HARDNESS
SEE PRECIPITATION HARDENING

AGE SOFTENING
SEE OVERAGING

AGENTS
SEE ADDITIVES
BRIGHTENERS
CATALYSTS
EMULSIFYING AGENTS
FLOTATION REAGENTS
FOAMING AGENTS
OXIDIZING AGENTS
PLASTICIZERS
REDUCING AGENTS
WETTING AGENTS

AGGLOMERATED DEFECTS
SEE ALSO SPIKES /LATTICE DEFECTS/

AGGLOMERATED DEFECTS, RADIATION EFFECTS
ELECTRON MICROSCOPY OF TYPES OF DEFECT CLUSTERS IN IRRADIATED METALS. PT. 2. STUDY OF NEUTRON AND ION IRRADIATED COPPER AND NEUTRON IRRADIATED NICKEL 67-05 M16-69783

AGGLOMERATES
TECHNOLOGICAL PROBLEMS OF THE MAXIMUM UTILIZATION OF HOMOGENIZING INSTALLATIONS IN THE CZECH PEOPLES REPUBLIC 67-10 M04-78648

AGGLOMERATES, REDUCTION /CHEMICAL/
SOME CHARACTERISTICS OF BRAZILIAN IRON ORES AND AGGLOMERATES 67-04 M03-68038

AGGLOMERATES, SINTERING
WAYS OF INTENSIFYING THE SINTERING OF IRON-VANADIUM CONCENTRATE 67-02 M02-61739

AGGLOMERATING
SEE AGGLOMERATION

AGGLOMERATION
PRELIMINARY ANALYSIS OF THE FACTORS AFFECTING THE BALLING OF IRON ORE FINES 67-01 M02-57512
AGGLOMERATION, REOXIDATION AND ABNORMAL PHENOMENA IN THE KILN 67-02 M02-59151
UPGRADING LORRAINE MINERALS. ENRICHMENT BY PHYSICAL MEANS 67-04 M02-67398
COARSENING A TITANIUM POWDER 67-04 M09-67836
ON THE RICE GRAIN METHOD 67-05 M02-69360
BRIQUETTING-COMPACTING APPLICATIONS IN THE STEEL INDUSTRY 67-09 M04-76728

AGGREGATION

SEE AGGLOMERATION

AGING

X-RAY DIFFRACTION ANALYSIS OF STRUCTURAL TRANSFORMATIONS DURING THE AGEING OF THE ALLOY ANCO-4. PT. 3. STATE AND CRYSTAL STRUCTURE OF THE PHASES FORMED DURING THE AGEING OF ANCO-4
67-01 M14-57340

ON THE AGING PHENOMENA AND LATTICE DEFECTS IN ALUMINIUM ALLOYS. --REPORT 2--. INFLUENCE OF CR, MN AND ZR ON THE PREPRECIPITATION IN AL-ZN ALLOYS
67-01 M14-57454

SOME CHARACTERISTICS OF THE AGING OF ALUMINUM ALLOYS CONTAINING COPPER AND MAGNESIUM
67-01 M14-57636

AGING /METALLURGICAL/

SEE ALSO ARTIFICIAL AGING /METALLURGICAL/
MARAGING
NATURAL AGING /METALLURGICAL/
OVERAGING
PRECIPITATION HARDENING
QUENCH AGING
SECONDARY HARDENING
STRAIN AGING

EFFECT OF PLASTIC DEFORMATION TEMPERATURE ON THE AGEING KINETICS OF HEAT-RESISTANT AUSTENITIC STEEL WITH CARBIDE STRENGTHENING
67-01 M10-57352

HEAT TREATMENT OF HARDENING STAINLESS STEELS
67-02 M10-58986

HEAT TREATMENT OF COPPER--BERYLLIUM ALLOYS
67-02 M10-59831

INVESTIGATION OF AGING OF CU-AL-TI ALLOYS
67-02 M10-60549

THE INFLUENCE OF SMALL ADDITIONS OF SILVER ON THE AGEING OF ALUMINIUM ALLOYS.. OBSERVATIONS ON AL-CU-MG ALLOYS
67-02 M10-61842

AGEING STUDY OF THE MARTENSITE IN IRON-NICKEL ALLOYS WITH ALUMINIUM ADDITIONS
67-02 M13-61685

THE STRUCTURE OF G. P. ZONES IN ALUMINUM-ZINC ALLOYS AT THE START OF THEIR FORMATION
67-02 M14-58952

ON THE MODULATED STRUCTURE OF AGED NI-AL ALLOYS
67-02 M14-58959

THE KINETICS OF AGING REACTIONS IN 18 PER CENT NI MARAGING STEELS
67-02 M14-59425

INVESTIGATION OF THE AGING KINETICS OF V95TS ALLOY OF THE AL-ZN-MG SYSTEM
67-02 M14-59762

THE PROCESS OF PRECIPITATION IN CU-BE 25 ALLOY
67-02 M14-60270

INFLUENCE OF PLASTIC DEFORMATION TEMPERATURE ON THE AGING OF HIGH-TEMPERATURE AUSTENITIC STEELS
67-02 M14-60294

A METALLOGRAPHIC STUDY OF PRECIPITATION IN A NI-12.7 AT. PER CENT AL ALLOY
67-02 M14-60642

SMALL-ANGLE X-RAY SCATTERING STUDY OF THE EARLY STAGES OF AGEING IN THE ALLOY AL-ZN
67-02 M14-61920

CHARACTERISTICS OF AGING OF AL-ZN-MG ALLOYS
67-02 M17-59764

EFFECT OF HEAT TREATMENT ON THE PROPERTIES, STRUCTURE AND PHASE COMPOSITION OF VT3-1 ALLOY
67-02 M17-59841

INVESTIGATION OF AMPLITUDE DEPENDENCY AND THERMAL RECOVERY OF WORK HARDENING CAUSED BY ULTRASONIC TREATMENTS
67-02 M17-59912

THE EFFECT OF MOLYBDENUM, TUNGSTEN AND VANADIUM ON THE ANNEAL HARDENING OF COLD WORKED 18 CR-12 NI STAINLESS STEEL
67-02 M17-60147

AGE HARDENING IN BERYLLIUM
67-03 M10-65254

BERYLLIUM AGING
67-03 M14-65255

INVESTIGATION OF THE AGING KINETICS OF MOLYBDENUM-BASE ALLOYS
67-04 M14-66199

CONDITIONS CONTROLLING MATRIX AND STACKING FAULT PRECIPITATION
67-04 M14-66548

X-RAY INVESTIGATION OF THE PROCESS OF DECOMPOSITION OF IRON-BASE HEAT RESISTANT AUSTENITIC STEELS
67-04 M14-66705

SOME PRECIPITATION REACTIONS IN CHROMIUM-MANGANESE-NITROGEN STAINLESS STEELS ON AGING AND COLD-WORKING
67-04 M14-66992

PRECIPITATION DURING AGING AT 700 C. OF A COMMERCIAL AUSTENITIC STEEL CONTAINING TITANIUM AND ALUMINIUM
67-04 M14-67020

DIRECT OBSERVATION OF STRESS ASSOCIATED WITH NITRIDIC PRECIPITATION IN IRON
67-04 M14-67021

CHANGE IN THE STRUCTURE OF MARTENSITE IN NI STEELS DURING AGING
67-04 M14-67930

NATURAL AND ARTIFICIAL AGING OF CSN 10602 STEEL
67-04 M17-67435

EFFECT OF PLASTIC DEFORMATION AND AGING ON MECHANICAL PROPERTIES OF AL-MG ALLOYS
67-04 M17-67923

BASIC FACTORS IN THE VIBRATION AGING OF IRON CASTINGS
67-04 M17-67948

EFFECT OF THE ANNULAR PRISMATIC DISLOCATION DIAMETER ON DEFORMATION RESISTANCE OF 3.5 MG-AL ALLOY SOLUTION TREATED AT 600 C
67-04 M17-68000

AGING CU ALLOYS CONTAINING SMALL AMOUNTS OF TI AND AL
67-05 M10-68975

INVESTIGATION OF THE AGING KINETICS OF AN ALLOY IN THE AL-ZN-MG SYSTEM
67-05 M14-69248

ON THE METHOD OF TESTING OF LOW-CARBON STEEL FOR ITS SENSITIVITY TO MECHANICAL AGING
67-05 M17-68745

LOW-TEMPERATURE AGING OF DISEQUILIBRIUM D-1 ALUMINUM ALLOY
67-05 M17-69655

MECHANICAL PROPERTIES OF WELDED JOINTS OF BETA-ALLOYS IN TI-AL-MO-V-CR SYSTEM
67-06 M10-71311

AGING IN NIOBIUM-RICH NIOBIUM-HAFNIUM-CARBON ALLOYS
67-06 M10-71411

HEAT TREATMENT OF NONFERROUS ALLOYS
67-06 M10-71935

DECOMPOSITION OF QUENCHED AL-29 AT. PER CENT ZN
67-06 M13-71020

INFLUENCE OF TEMPERATURE AND AGING TIME ON STRUCTURE AND PHASE COMPOSITION OF AMG6 AL ALLOYS
67-06 M14-70074

THE INVESTIGATION OF THE PRECIPITATION BEHAVIOR IN HIGH-STRENGTH MARTENSITE-AGE-HARDENING NICKEL STEELS
67-06 M14-70261

COMPARISON OF TWO METHODS FOR TESTING THE SUSCEPTIBILITY TO AGING OF HEAVY PLATE ROLLED FROM GENERAL STRUCTURAL STEELS
67-07 M17-73288

DUPLEX AGING--THE WAY TO STRONG, CORROSION RESISTANT ALUMINUM ALLOYS
67-08 M10-74495

CHANGES IN STRUCTURE AND PROPERTIES OF AL-5 PER CENT ZN-1 PER CENT MG AND AL-5.5 PER CENT GE ALLOYS DURING AGING
67-08 M10-74628

X-RAY EXAMINATION OF THE INITIAL AGING STAGE IN AL-25 PER CENT ZN ALLOY
67-08 M10-74633

AGING BEHAVIOR OF 5 PER CENT NICKEL-2 PER CENT ALUMINIUM AGE HARDENING STEELS
67-08 M10-75759

STUDY OF THE DECOMPOSITION OF SUPERSATURATED SOLID SOLUTIONS BY THE NUCLEAR MAGNETIC RESONANCE METHOD
67-08 M14-74336

AGING OF MARTENSITE IN FE-NI-MN STEELS
67-08 M14-76024

ELECTRON MICROSCOPIC INVESTIGATION OF ALLOYS OF THE AL-ZN-MG SYSTEM
67-08 M14-76120

INVESTIGATION OF THE KINETICS OF AGING OF THE V92TS ALLOY OF THE AL-ZN-MG SYSTEM
67-08 M14-76121

COMPARATIVE STUDY BY MEANS OF MECHANICAL TESTS, ELECTRON MICROSCOPY AND RESISTIVITY MEASUREMENTS OF THE AGING OF SOLID SOLUTIONS OF ALUMINUM
67-08 M14-76226

AGING CHARACTERISTICS OF SOME ALUMINIUM-ZINC-MAGNESIUM ALLOYS
67-09 M10-78136

DENITRIDING OF STEEL COILS FOR DEEP DRAWING IN REACTIVE ATMOSPHERES. RELATIONSHIP BETWEEN RESIDUAL NITROGEN AND AGING
67-09 M10-78294

EFFECT OF COLD DEFORMATION ON THE MECHANICAL PROPERTIES OF RIMMING REINFORCING STEEL BARS FOLLOWING ARTIFICIAL AGING
67-09 M17-76702

SOME INVESTIGATIONS OF THE AGE HARDENING OF A WROUGHT ALMGSI TYPE ALLOY IN THE UNSTRETCHED AND STRETCHED CONDITION
67-10 M10-79086

PRESENT STATE OF THE METAL ALLOYS AGING THEORY
67-10 M10-79213

DEVELOPMENT OF HEAT TREATMENT PROCESSES IN MACHINERY CONSTRUCTION
67-10 M10-79214

EFFECT OF THE TEMPERING TEMPERATURE AND TIME ON THE STRUCTURE AND PHASE COMPOSITION OF THE AMG6 ALLOY
67-10 M14-78820

CRYOGENIC PROPERTIES OF 18NI-9CO-5MO AND 18NI-7CO-
67-10 M17-78491

THERMAL STABILIZATION OF AUSTENITE IN IRON-NICKEL-CARBON ALLOYS
67-11 M14-81598

SOLUTE-VACANCY INTERACTION IN AGE-HARDENING ALLOYS
67-11 M15-81122

PHASE COMPOSITION AND AGEING OF AL-CU-MN-CD ALLOYS
67-12 M01-82421

AGING /METALLURGICAL/
VIBRATION AGING OF IRON CASTINGS 67-12 M06-82083
A RESISTOMETRIC STUDY OF THE INITIAL AGING BEHAVIOR OF QUENCHED COPPER-BERYLLIUM ALLOYS 67-12 M10-83067
THE TEMPERATURE DEPENDENCE OF THE MAXIMUM ELECTRICAL RESISTANCE DURING AGING OF ALUMINUM ALLOYS 67-12 M10-83408
TIME AND TEMPERATURE DEPENDENCE OF COERCIVITY OF ALNI A ALLOY 67-12 M15-82231
EFFECTS OF LOW-TEMPERATURE AGING ON THE RESISTIVE TRANSITION OF SUPERCONDUCTING 70ZR-30NB --CB-- IN PULSED MAGNETIC FIELDS 67-12 M16-82721
THE INFLUENCE OF SMALL COLD DEFORMATION PRECEDING AGING IN 15 AND 18 PER CENT NICKEL MARAGING STEEL 67-12 M17-82578
VARIATION OF INTERNAL FRICTION VALUES DURING AGING OF QUENCHED AL --99.995 PER CENT PURITY-- 67-12 M17-82712
AGING /METALLURGICAL/, ALLOYING EFFECTS
THE POSSIBLE FIXATION OF NITROGEN BY CHROMIUM AND VANADIUM DEEP DRAWING RIMMING STEELS TO REDUCE THE SUSCEPTIBILITY TO AGING 67-02 M10-59109
SOLUTE-VACANCY INTERACTION ENERGIES AND THE EFFECT OF 0.009 AT. PER CENT MG ON THE AGING KINETICS OF AN A1-4.01 AT. PER CENT ZN ALLOY 67-02 M14-58945
THE AGING PHENOMENA AND LATTICE DEFECTS IN ALUMINIUM ALLOYS. PT. 1. INFLUENCE OF FE, SI ON THE PREPRECIPITATION IN AL-ZN ALLOY 67-02 M14-59719
EFFECT OF CADMIUM ADDITIVES ON THE ARTIFICIAL AGING OF SOME ALUMINUM ALLOYS 67-04 M14-67147
AGING BEHAVIOR OF TERNARY IRON-CHROMIUM-VANADIUM ALLOYS AROUND 500 C 67-09 M14-78232
EFFECTS OF HYDROGEN ON THE PROCESSES TAKING PLACE IN VT3-1 ALLOY DURING AGING 67-09 M17-77040
AGING /METALLURGICAL/, HEATING EFFECTS
STRUCTURAL EVOLUTION OF CENTRIFUGALLY CAST 25CR-20NI-TYPE STEELS DURING PROLONGED HOLDING AT HIGH TEMPERATURE 67-11 M14-80243
AGING /METALLURGICAL/, TEMPERATURE EFFECTS
THE INFLUENCE OF A SUBGRAIN STRUCTURE ON PRECIPITATION-HARDENING AND NUCLEATION OF PRECIPITATES IN AN AL-ZN-MG ALLOY 67-11 M14-80105
AGITATION
THE SOLIDIFICATION OF BI2TE3 AND ITS SOLID SOLUTIONS WITH BI2SE3 AND SB2TE3 UNDER THE INFLUENCE OF ULTRASONIC AGITATION 67-06 M14-70664
AGRICULTURAL EQUIPMENT
EXPERIENCE WITH THE INTRODUCTION OF CERIUM-INOCULATED HIGH-STRENGTH CAST IRON 67-04 M06-66423
CO2 WELDING OF A TRACTOR FRAME 67-04 M11-67814
INDUCTION BUILDUP OF DISKS OF A BEET-HARVESTING COMBINE 67-04 M11-67815
MECHANICAL PROPERTIES OF SOME AUSTEMPERED STEEL TYPES USED FOR PLOWSHARES 67-04 M17-67822
CO2 WELDING OF A TRACTOR CHASSIS 67-06 M11-70314
INDUCTION HARDFACING OF DISCS OF BEET COMBINE HARVESTERS 67-06 M11-70315
TOOLS MADE OF CRUCIBLE STEELS AND COMPARABLE GRADES 67-06 M20-72137
DEEP FORMING PROBLEMS. TRY A RUBBER PUNCH 67-08 M07-74725
INCREASE OF THE WORKING LIFE OF TRACTOR PARTS 67-08 M17-74969
EFFECT OF ANNEALING ON HARDNESS AND ABRASIVE WEAR OF AUSTENITIC MANGANESE CAST IRON 67-12 M17-81840
SEMIKILLED STEEL ST.5 GSK WITH IMPROVED WELDABILITY IN PLACE OF KILLED STEEL ST.5K 67-12 M17-81875
PEARLITIC-FERRITIC MALLEABLE CAST IRON IN AGRICULTURAL MACHINERY CONSTRUCTION 67-12 M17-81986
AGRICULTURAL EQUIPMENT, CASTING
THE ECONOMY OF INVESTMENT CASTING 67-08 M06-75196
AGRICULTURAL EQUIPMENT, COATING
ELECTRODEPOSITED PAINT PROTECTS SHARP EDGES 67-05 M12-68679
FIRST ELECTRODEPOSITION LINE PAINTS DISKS 67-08 M12-74729
AGRICULTURAL EQUIPMENT, HARD SURFACING
ANK-18 CERAMIC FLUX FOR MECHANIZED WEAR RESISTANT BUILDUP 67-08 M11-75414
INFLUENCE OF THE ELECTROSPARK ALLOYING ON HARDNESS AND WEAR RESISTANCE OF METALLIC SURFACES 67-08 M12-75428
AGRICULTURAL EQUIPMENT, MATERIALS
STEEL WITH LOW HARDENABILITY FOR TRACTOR PARTS 67-04 M20-67957
USE OF LOW-NICKEL AND NICKEL-FREE STEELS FOR HEAVILY STRESSED TRACTOR GEARS 67-04 M20-67960
AGRICULTURAL EQUIPMENT, STRUCTURAL MATERIALS
METALLURGICAL DEVELOPMENTS IN THE MANUFACTURE OF EARTHMOVING EQUIPMENT 67-10 M17-79304
AGRICULTURAL EQUIPMENT, WEAR
THE STRUCTURE AND WEAR RESISTANCE OF A NICKEL-FREE POWDERED HARD ALLOY WITH A HIGH MANGANESE CONTENT 67-08 M17-74863
AGRICULTURAL EQUIPMENT, WELDING
POSSIBILITIES FOR FRICTION WELDING DURING REPAIR OF AGRICULTURAL MACHINERY 67-06 M11-70159
THE ANK-18 CERAMIC FLUX FOR THE MECHANISED DEPOSITION OF WEAR RESISTANT METAL 67-12 M11-82035
AIR
SEE ALSO COMPRESSED AIR
AIR, REDUCING AGENTS
UTILIZATION OF PARTIALLY REDUCED ORE FOR CUPOLA CHARGE 67-04 M04-67556
AIR ARC MELTING
SEE ELECTRIC ARC MELTING
AIR BEARINGS
SEE GAS BEARINGS
AIR BLOWN CONVERTERS
SEE BASIC BESSEMER CONVERTERS
BESSEMER CONVERTERS
AIR BUBBLES
SEE AIR
BUBBLES
AIR COMPRESSORS, CORROSION
CORROSION IN CENTRIFUGAL AIR COMPRESSORS 67-06 M18-70545
AIR CONDITIONERS, STRUCTURAL MATERIALS
THE EFFECTS OF FREON-22 ON CERTAIN ALUMINUM ALLOYS AND NONMETALLIC SUBSTANCES 67-09 M18-76563
AIR CONDITIONING EQUIPMENT
SEE AIR CONDITIONERS
AIR HARDENING
AN EVALUATION OF TYPE 321 STAINLESS STEEL FOIL WRAP IN HARDENING TOOL STEEL PARTS 67-08 M10-76175
CARBIDE PRECIPITATION IN WEAKLY-ALLOYED NI-CR-MO STEEL 67-10 M13-79586
AIR HEATERS
SEE ALSO BLAST FURNACE STOVES
VITREOUS ENAMELLING TREBLES HEATER TUBE LIFE 67-08 M12-74951
AIR INDUCTION MELTING
SEE INDUCTION MELTING
AIR MELTING
SEE MELTING
AIR PREHEATERS
SEE AIR HEATERS
AIR SLIDES
SEE GRAVITY CONVEYORS
AIRBORNE WASTES, ELECTROSTATIC PRECIPITATION
ELECTRICAL CLEANING OF THE WASTE GASES FROM ELECTRODE KILNS 67-06 M05-71837
AIRCOMATIC WELDING
SEE GAS METAL ARC WELDING
AIRCRAFT
SEE ALSO HELICOPTERS
JET PLANES
MILITARY PLANES
SUPERSONIC PLANES
ADHESIVE BONDS IN AIRCRAFT AND SPACECRAFT MANUFACTURE 67-01 M11-58265
THE BIG SQUEEZE 67-06 M11-71745
VACUUM DEGASSED VS AIR MELTED STEELS--NO CLEAR-CUT WINNER 67-07 M04-73332
PROGRESS REPORT--DEVELOPMENT OF ADVANCED COMPOSITE STRUCTURES 67-07 M09-73346
ELECTROFORMING THIN SHELLS FOR EXPERIMENTAL STUDIES 67-07 M12-73132
INDUSTRY SHOWS RENEWED INTEREST IN STRETCH-PRESS FORMING 67-08 M08-74734
MACHINING TOOLS FOR HIGHLY HEAT RESISTANT MATERIALS IN AIRCRAFT POWER PLANT CONSTRUCTION 67-08 M08-74756

BIG METAL BELLOWS DUCTS FEED SATURNS S-1C BOOSTER
67-08 M20-74733
COLD REDUCTION TECHNIQUE PUTS MORE FORGINGS IN THE AIR
67-09 M07-77181
CLOSED-DIE FORGING IN SCOTLAND 67-09 M07-77377
ELECTROCHEMICAL MACHINING TITANIUM ALLOY WAFFLE-GRID PANELS
67-09 M08-77905
COMMERCIAL JETS--THE BIG SWITCH TO PRECISION FORMED PARTS
67-09 M20-77180
MATERIALS IN AIRLIFT TECHNOLOGY
67-11 M20-81240
VERY HIGH-STRENGTH STEELS IN THE FRENCH AEROSPACE INDUSTRY
67-12 M20-83374

AIRCRAFT, BONDING
NEW STICK FOR METALS 67-02 M11-59016

AIRCRAFT, CORROSION
AIRCRAFT EXFOLIATION CORROSION--METHODS FOR PREVENTION IN FASTENER HOLES 67-05 M18-68797
EFFECT OF PROIR CORROSION ON THE FATIGUE LIMIT OF D16 ALUMINUM ALLOY 67-11 M18-80587

AIRCRAFT, MATERIALS
BORON FILAMENT REINFORCED PLASTIC COMPOSITES FOR AIRCRAFT STRUCTURE 67-04 M09-66649

AIRCRAFT, NONDESTRUCTIVE TESTING
NON-DESTRUCTIVE TESTING IN THE AEROSPACE INDUSTRY
67-09 M19-78278

AIRCRAFT, THERMAL PROPERTIES
AFTER BORON, GRAPHITE 67-06 M15-71744

AIRCRAFT, WELDING
BOEING READIES GIANT NC SPOT WELDER FOR ADVANCED AIRCRAFT PRODUCTION 67-05 M11-68431
THE APPLICATION OF WELDING TECHNIQUES IN THE AIR AND IN SPACE 67-12 M11-82464

AIRCRAFT CARRIERS
SEE WARSHIPS

AIRCRAFT COMPONENTS
MAGNESIUM CASTING ALLOYS FOR STRUCTURAL COMPONENTS OF AIRPLANES. RECENT DEVELOPMENTS
67-02 M17-61965
MAGNESIUM CASTING ALLOYS FOR AIRCRAFT STRUCTURES
67-06 M01-70671
PUSHBUTTON STRETCH FORMER USES ARCED, ROTATING JAWS
67-07 M07-72930
SOME CURRENT DEVELOPMENTS IN ELECTROFORMING
67-07 M12-73372
TWO PAGES OF REPRODUCIBLE DATA TABLES--PROTECTIVE FINISHES
67-08 M12-74602
AIRCRAFT AND AEROSPACE APPLICATIONS
67-08 M20-74831
VACUUM ARC MELT FOR SAFE LANDINGS
67-10 M20-78596
CRACKING OF A STRONG ALUMINIUM ALLOY USED IN AIRCRAFT CONSTRUCTION 67-12 M17-83122
RECENT DEVELOPMENTS IN MAGNESIUM CASTING ALLOYS
67-12 M17-83376

AIRCRAFT COMPONENTS, CASTINGS
BERYLLIUM COPPER INVESTMENT CASTINGS
67-04 M06-68133

AIRCRAFT COMPONENTS, CLEANING
TREATMENT OF METAL SURFACES IN THE AERONAUTICS INDUSTRY 67-12 M12-83381

AIRCRAFT COMPONENTS, FAILURE
TO AVOID FATIGUE FAILURES, PAY ATTENTION TO DETAILS
67-04 M17-68127

AIRCRAFT COMPONENTS, FORGING
THE CLASSIC FORGE 67-05 M07-69314

AIRCRAFT COMPONENTS, FORMING
FACILITIES AND TOOLING FOR EXPLOSIVE FORMING AND SOME ECONOMIC ASPECTS OF H. E. R. FORMING
67-05 M08-69737

AIRCRAFT COMPONENTS, HEAT TREATMENT
FURNACES FOR TREATING THE REFRACTORY STEELS AND SPECIAL ALLOYS USED IN THE AERONAUTICS AND SPACE INDUSTRY 67-12 M10-83377

AIRCRAFT COMPONENTS, MATERIALS
AISI NO. 634 --PRECIPITATION HARDENING STAINLESS STEEL-- 67-04 M01-66323

AIRCRAFT COMPONENTS, MECHANICAL PROPERTIES
METALS IN AIRFRAMES--RETREAT OR ADVANCE
67-06 M20-70954
BORON-FILAMENT REINFORCED PLASTIC COMPOSITES FOR AIRCRAFT STRUCTURES 67-07 M09-73721

AIRCRAFT COMPONENTS, METAL WORKING
STRETCH-DRAW FORMING OF ELEMENTS OF DIVERSE SHAPES IN THE AERONAUTICS INDUSTRY
67-12 M08-83379

AIRCRAFT COMPONENTS, NONDESTRUCTIVE TESTING
THE VALUE OF NON-DESTRUCTIVE TESTING IN THE AIRCRAFT INDUSTRY 67-06 M19-71741

AIRCRAFT ENGINES
SEE AEROSPACE ENGINES

AIRCRAFT EQUIPMENT
SEE AIRCRAFT COMPONENTS

AIRCRAFT INDUSTRY, WELDING
REVIEW OF THE INTRODUCTION OF THE RESISTANCE WELDING TECHNOLOGY IN THE GERMAN AIRCRAFT INDUSTRY 67-02 M11-60107

AIRCRAFT ROCKETS, COMPOSITE MATERIALS
BI-COMPOSITIONAL CARBON-SILICA FIBERS
67-07 M09-73353

AIRFRAMES
FORMING TITANIUM 67-06 M07-71584
TITANIUM CASTINGS FOR AIRFRAME STRUCTURAL APPLICATIONS 67-12 M20-82453

AIRFRAMES, MACHINING
NC PROFILING MADE FAIL-SAFE 67-07 M08-73444

AIRFRAMES, MECHANICAL PROPERTIES
METALS IN AIRFRAMES--RETREAT OR ADVANCE
67-06 M20-70954

AIRPLANES
SEE JET PLANES
MILITARY PLANES
SUPERSONIC PLANES

AJAX WYATT FURNACES
SEE CHANNEL INDUCTION FURNACES

ALCO PLATE PROCESS
SEE ELECTROLESS PLATING
NICKEL PLATING

ALDIP PROCESS
SEE ALUMINUM PLATING
HOT DIP COATING

ALFVEN WAVES
SEE MAGNETOHYDRODYNAMICS

ALIPHATIC COMPOUNDS
SEE ALSO FATTY ACIDS
SOME VAPOR PHASE INHIBITOR EXPERIMENTS
67-03 M18-65474

ALKALI METAL COMPOUNDS
SEE ALSO CERIUM COMPOUNDS
CESIUM COMPOUNDS
LITHIUM COMPOUNDS
LITHIUM FLUORIDE
POTASSIUM COMPOUNDS
RUBIDIUM COMPOUNDS
SODIUM CARBONATE
SODIUM CHLORIDE
SODIUM COMPOUNDS

ALKALI METAL COMPOUNDS, CHEMICAL ANALYSIS
IMPURITY ANALYSIS OF ALKALI HALIDES BY MASS SPECTROGRAPHY 67-08 M19-75992

ALKALI METAL COMPOUNDS, REACTIONS /CHEMICAL/
FORMATION OF ALKALI SILICATES AND ALUMINO-SILICATES AND THEIR OCCURRENCE IN BLAST FURNACES
67-04 M14-66139

ALKALI METALS
SEE ALSO CESIUM
LITHIUM
POTASSIUM
RUBIDIUM
SODIUM
THE UNFAMILIAR METALS 67-03 M01-65319

ALKALI METALS, ATOMIC PROPERTIES
CALCULATING THE SURFACE ENERGY OF METALS WITH A BODY-CENTERED LATTICE 67-08 M15-74625
PSEUDOATOM PHASE SHIFTS FOR MONOVALENT METALS AND ALLOYS. PT. 2. MONOVALENT IMPURITY RESISTIVITIES IN MONOVALENT METALS 67-11 M16-81479

ALKALI METALS, BINARY SYSTEMS
PHASE DIAGRAMS. PT. 2 67-01 M13-58505

ALKALI METALS, CORROSION ENVIRONMENTS
EVALUATION OF LI, NA, K, RB AND CS BOILING AND CONDENSING IN NB-1 PER CENT ZR CAPSULES
67-04 M18-66388

ALKALI METALS, CRYSTAL LATTICES
CRYSTAL STABILITY CALCULATIONS OF SIMPLE METALS--ALKALI METALS AND ALUMINIUM 67-06 M13-70468

ALKALI METALS, ELECTRICAL PROPERTIES
PSEUDOATOM PHASE SHIFTS FOR MONOVALENT METALS AND ALLOYS. PT. 1. ELECTRICAL RESISTIVITIES AND THERMOELECTRIC POWERS OF THE MONOVALENT LIQUID METALS 67-11 M16-81478

ALKALI METALS, EXTRACTION
EFFECT OF TEMPERATURE ON RADIOCHEMICAL SEPARATION OF ALKALI METALS ON SULFONIC AND PHENOLSULFONIC ION EXCHANGERS 67-10 M03-79701

ALKALI METALS, PHYSICAL PROPERTIES
VAPOR PRESSURE OF DIFFERENT METALS IN THE PRESSURE RANGE OF 50 TO 4000 TORR 67-03 M15-65731

ALKALI METALS

HUGONIOT EQUATION OF STATE OF ALKALI METALS
67-03 M15-65877
DEVELOPMENT AND EVALUATION OF MAGNETIC AND ELECTRICAL MATERIALS CAPABLE OF OPERATING IN THE 800 TO 1600 F. TEMPERATURE RANGE
67-03 M15-65901
COMPRESSIBILITY AND BINDING ENERGY OF THE SIMPLE METALS 67-07 M15-73942
PROPAGATION OF SOULD IN LIQUID METALS
67-09 M15-77757
APPROXIMATE CALCULATION OF THE SURFACE TENSION OF MOLTEN ALKALI METALS 67-11 M15-80653
THE SURFACE TENSION OF THE ALKALI METALS
67-12 M15-82999

ALKALI METALS, REFINING
METHOD OF PRODUCING ALKALI METALS
67-11 M03-81223

ALKALI METALS, SOLUBILITY
THE CHEMISTRY OF HYDROGEN IN LIQUID-ALKALI-METAL MIXTURES USEFUL AS NUCLEAR REACTOR COOLANTS. PT. 1. SODIUM-POTASSIUM EUTECTIC
67-07 M14-74298

ALKALI METALS, SURFACE PROPERTIES
DEPENDENCE OF ADSORPTION PROPERTIES ON SURFACE STRUCTURE FOR BODY-CENTERED-CUBIC SUBSTRATES
67-04 M16-67740

ALKALI METALS, THERMAL PROPERTIES
TEMPERATURE PROFILES AND EDDY DIFFUSIVITIES IN LIQUID METALS 67-05 M15-69102

ALKALI RESISTANCE TESTS
ALKALI SULFATE CORROSION IN STEEL RECUPERATORS AND BOILER PLANTS 67-02 M18-62022
THE CORROSION OF AUSTENITIC SUPERHEATER STEELS BY ALKALI SULFATE/ALKALI CHLORIDE MIXTURES IN AIR AND COMBUSTION GASES 67-02 M18-62023
CORROSION IN BLAST-FURNACE GAS TURBINES. CAUSES AND REMEDIES 67-02 M18-62025
CORROSION OF ZIRCONIUM IN MOLTEN CHLORIDES OF ALKALI METALS 67-03 M18-65442
CORROSION OF BERYLLIUM BY SALT WATER
67-03 M18-65476
THE ALKALI CORROSION OF BOILER TUBES
67-03 M18-65823
CORROSION RESISTANCE OF STRUCTURAL MATERIALS IN SODIUM CHLORITE SOLUTIONS 67-04 M18-66591
RELATIONSHIPS BETWEEN ELECTROCHEMICAL MEASUREMENTS AND STRESS CORROSION CRACKING OF MARAGING STEEL
67-05 M18-69473
EFFECTS OF THE PH OF WATER ON THE CORROSION OF PEARLITIC STEEL 67-06 M18-70154
CONTRIBUTION TO THE INVESTIGATION OF CERTAIN VARIABLES THAT AFFECT THE CATHODIC PROTECTION OF STEEL 67-06 M18-71815

ALKALIES, ATOMIC PROPERTIES
ATOMIC GEOMETRY OF THE ALKALI HALIDES
67-08 M16-74947

ALKALIES, REACTIONS /CHEMICAL/
ON THE SOLUBILITY OF SODIUM-CALCIUM HYDROSILICATE IN ALKALIS AND ALUMINATE SOLUTIONS
67-08 M14-75018

ALKALINE CLEANING
METAL CLEANING 67-06 M12-70028
APPLICATION OF GLUCONATE COMPOUNDS IN ALKALINE BATHS FOR THE SIMULTANEOUS REMOVAL OF GREASE AND OXIDE FILMS FROM BRASS 67-06 M12-70640
CONTEMPORARY METHODS FOR METAL CLEANING
67-06 M12-71810
USE OF SODIUM GLUCONATE IN ELECTROLYTIC BATHS FOR DEGREASING AND DESCALING IN PLATING INDUSTRY
67-06 M12-71812
ALKALI DE-RUSTING SOLUTIONS 67-07 M12-73643

ALKALINE DEGREASING
SEE ALKALINE CLEANING
DEGREASING

ALKALINE EARTH METAL COMPOUNDS
SEE ALSO BARIUM COMPOUNDS
BERYLLIUM COMPOUNDS
CALCIUM COMPOUNDS
MAGNESIUM COMPOUNDS
MAGNESIUM OXIDE
STRONTIUM COMPOUNDS

ALKALINE EARTH METAL COMPOUNDS, CRYSTAL LATTICES
ALKALINE EARTH SILICIDES, GERMANIDES AND STANNIDES WITH CRB STRUCTURE TYPE 67-08 M13-76136

ALKALINE EARTH METALS
SEE ALSO BARIUM
BERYLLIUM
CALCIUM
MAGNESIUM
RADIUM
STRONTIUM
THE UNFAMILIAR METALS 67-03 M01-65319

ALKALINE EARTH METALS, ATOMIC PROPERTIES
THE ROLE OF STABLE ELECTRON CONFIGURATIONS IN THE ORIGIN OF THE PROPERTIES OF CHEMICAL ELEMENTS AND COMPOUNDS 67-11 M16-80894

ALKALINE EARTH METALS, ATOMIC STRUCTURE
THE INFLUENCE OF THE FORMATION OF STABLE ELECTRONIC CONFIGURATIONS ON THE PROPERTIES OF CHEMICAL ELEMENTS AND COMPOUNDS 67-07 M16-72508

ALKALINE EARTH METALS, BINARY SYSTEMS
PHASE DIAGRAMS. PT. 2 67-01 M13-58505

ALKALINE EARTH METALS, EXTRACTION
PRODUCTION OF ALKALINE METALS AND MAGNESIUM BY REFINING LIQUID BASIC PIG IRON OUTSIDE THE BLAST FURNACE 67-09 M03-77048

ALKALINE EARTH METALS, REDUCTION /CHEMICAL/
SOME PROBLEMS OF THE CARBIDOTHERMIC REDUCTION OF ALKALINE EARTHS 67-08 M03-74883

ALKALINE EARTH METALS, SURFACE PROPERTIES
DEPENDENCE OF ADSORPTION PROPERTIES ON SURFACE STRUCTURE FOR BODY-CENTERED-CUBIC SUBSTRATES
67-04 M16-67740

ALKALINE LEACHING
NONFERROUS METALS AND THE CHEMICAL ENGINEER. PT. 3. COPPER 67-04 M02-66587
THE MECHANISM OF EXTRACTION OF AL2O3 FROM SINTERED CAKE 67-07 M02-73415

ALKALINITY
SEE PH

ALKYD RESINS, COATINGS
ELECTRODEPOSITION COMES TO CANADA
67-02 M12-60928

ALLOTROPE
SEE ALLOTROPY

ALLOTROPIC TRANSFORMATION
THE EFFECT OF CERTAIN RARE-EARTH SOLUTES UPON THE FCC-BCC TRANSFORMATION TEMPERATURE OF THORIUM
67-01 M14-58532
HEATS OF FUSION AND TRANSFORMATION FOR SOME METALS AND COMPOUNDS 67-02 M15-61114
OBSERVATION OF BERYLLIUM SINGLE CRYSTALS BY X-RAY TOPOGRAPHY 67-03 M13-65264
EFFECT OF OXYGEN ON PROPERTIES AND STRUCTURE OF VT16 TITANIUM ALLOY 67-03 M14-65587
PHASE DIAGRAM OF BISMUTH AT LOW TEMPERATURES
67-05 M13-68572
EFFECT OF MULTIPLE PHASE TRANSFORMATIONS AND PLASTIC DEFORMATION ON ALLOTROPIC TRANSFORMATIONS IN COBALT 67-05 M14-69647
HIGH PRESSURE AS A RESEARCH TOOL FOR SOLID-STATE PHYSICS 67-06 M14-71401
ALLOTROPIC TRANSFORMATIONS IN CERIUM
67-06 M14-71601
INVESTIGATION OF PHASE COMPOSITION OF COBALT POWDERS CONDENSED IN AN INERT GAS MEDIUM
67-08 M09-75422
STUDY OF ALLOTROPIC TRANSFORMATION OF PLUTONIUM
67-09 M14-76307
FACE-CENTERED CUBIC MODIFICATION IN SPUTTERED FILMS OF TANTALUM, MOLYBDENUM, TUNGSTEN, RHENIUM, HAFNIUM AND ZIRCONIUM 67-12 M13-82543
STUDY OF THE URANIUM-HYDROGEN SYSTEM AT ELEVATED PRESSURES 67-12 M13-82597

ALLOTROPIC TRANSFORMATION, ALLOYING EFFECTS
EFFECT OF CARBON ON THE ELECTRICAL RESISTIVITY AND ALLOTROPIC TRANSFORMATION OF THORIUM
67-10 M15-79595
ELECTRICAL RESISTIVITY AND PHASE RELATIONS FOR THE THORIUM-CARBON SYSTEM 67-10 M15-79596

ALLOTROPY
THE NATURE OF THE CHEMICAL BOND IN PHASES OF THE IRON-CARBON SYSTEM 67-01 M13-58146
PHASE TRANSITIONS IN TRANSITION-METAL CHALCOGENIDES
67-01 M14-57442
POLYMORPHISM AND POLYTYPISM IN CRYSTALS
67-01 M14-58301
THEORETICAL ANALYSIS OF THE EFFECT OF HIGH PRESSURE ON PHASE TRANSFORMATIONS IN PURE METALS
67-02 M14-59918
COBALT AND COBALT ALLOYS 67-05 M14-68344
EFFECT OF MULTIPLE PHASE TRANSFORMATIONS AND PLASTIC DEFORMATION ON ALLOTROPIC TRANSFORMATIONS IN COBALT 67-05 M14-69647
PROPERTIES OF TRANSITION METALS VIEWED FROM THE POINT OF STABLE ELECTRON CONFIGURATIONS
67-05 M15-68707
PHYSICAL PROPERTIES OF LANTHANUM DISILICIDE IN THE

HOMOGENEITY REGION 67-05 M15-68709
EVALUATION OF THE HEATS OF PHASE TRANSITIONS AND VACANCY-FORMATION ENERGIES IN SIMPLE METALS 67-06 M15-70502
THEORETICAL ANALYSIS OF THE EFFECT OF HIGH PRESSURE ON PHASE TRANSFORMATIONS IN PURE METALS 67-07 M14-72573
EFFECT OF POLYMORPHIC TRANSFORMATION ON THE STRUCTURE OF THALLIUM 67-10 M14-79723
HEAT CAPACITY AND THERMODYNAMIC FUNCTIONS OF IRON 67-11 M15-81151
PROPERTIES OF TRANSITION METALS FROM THE POINT OF VIEW OF THE CONCEPT OF STABLE ELECTRONIC CONFIGURATIONS 67-12 M15-82683
PHYSICAL PROPERTIES OF LANTHANUM DISILICIDE IN THE HOMOGENEITY REGION 67-12 M15-82685

ALLOY CAST IRON
SEE ALSO CHROMIUM IRON
NICKEL IRON

ALLOY CAST IRON, CASTING
NONMETALLIC INCLUSIONS IN CHILL MOLD CASTINGS OF MAGNESIUM IRON 67-08 M06-75195

ALLOY CAST IRON, CRYSTAL GROWTH
EFFECT OF ARSENIC ON THE PRIMARY CRYSTALLIZATION OF MAGNESIUM CAST IRON 67-12 M06-81975

ALLOY CAST IRON, MECHANICAL PROPERTIES
EXPERIMENTAL INVESTIGATION OF THERMAL SHOCK BEHAVIOR IN CAST IRONS 67-01 M17-57596
ROLLING MILL ROLLS OF CHROMIUM IRON 67-07 M07-74077
EFFECT OF CASTING WALL THICKNESS ON THE STRUCTURE OF ANTIMONOUS CAST IRONS 67-12 M06-82622
STUDY OF THE STRUCTURE AND PROPERTIES OF ROLLS AFTER VACUUM HOT ROLLING OF MOLYBDENUM 67-12 M07-83538
EFFECT OF ANNEALING ON HARDNESS AND ABRASIVE WEAR OF AUSTENITIC MANGANESE CAST IRON 67-12 M17-81840
WEAR OF CAST IRON ROLLS 67-12 M17-82095

ALLOY CAST IRON, MELTING
EFFECT OF NI ON LOW NI-CR CAST IRON 67-09 M01-77248
SOME CHARACTERISTICS OF BLOWING VANADIUM IRON WITH OXYGEN WITH A FUEL ADDITIVE 67-12 M04-81708

ALLOY CAST IRON, PHASE TRANSFORMATIONS
THERMOKINETIC DIAGRAMS OF HIGH-STRENGTH ALLOYED CAST IRON 67-08 M14-76039

ALLOY PLATING
BRIGHT SOLDER PLATE 67-02 M12-59044
ELECTRODEPOSITION OF COPPER-COBALT ALLOYS FROM THE PYROPHOSPHATE BATH 67-06 M12-70641
SCIENCE FOR ELECTROPLATERS 67-06 M12-71072
PLATING ON TITANIUM AND ITS ALLOYS 67-07 M12-73627
SCIENCE FOR ELECTROPLATERS. PT. 115. ALLOYS 67-07 M12-73629
ELECTROPLATING OF COBALT AND COBALT ALLOYS--A REVIEW 67-09 M12-76994
ELECTROLESS PLATING VARIABLES AND COERCIVE FORCE OF NICKEL-COBALT-PHOSPHORUS FILMS 67-09 M12-76997
MAGNETIC PROPERTIES OF CHEMICALLY DEPOSITED COBALT-IRON FILMS 67-09 M15-76996
MAGNETIC PROPERTIES OF ELECTROLESS COBALT BASED ALLOYS 67-09 M15-76998

ALLOY POWDERS, MECHANICAL PROPERTIES
PRE-INFILTRATED IRON-COPPER POWDER 67-05 M09-68944
FATIGUE PROPERTIES OF POWDER METAL COMPOSITIONS 67-05 M17-68947

ALLOY POWDERS, METAL WORKING
COMPRESSION AND COLD ROLLING OF DISPERSION STRENGTHENED ALUMINIUM ALLOY --S.A.P.-- 67-08 M17-74410

ALLOY POWDERS, POWDER METALLURGY
THE PUSH FOR PERMEABILITY 67-06 M09-72316

ALLOY STEELS
SEE ALSO ABRASION RESISTANT STEELS
BORON INTENSIFIED STEELS
CHROMIUM MOLYBDENUM STEELS
CHROMIUM STEELS
CHROMIUM VANADIUM STEELS
COPPER STEELS
CORROSION RESISTANT STEELS
ELECTRICAL STEELS
FREE MACHINING STEELS
HEAT RESISTANT STEELS
HIGH ALLOY STEELS
HIGH STRENGTH STEELS
LEADED STEELS
LOW ALLOY STEELS
MANGANESE STEELS
MARAGING STEELS
MOLYBDENUM STEELS
NICKEL CHROMIUM MOLYBDENUM STEELS
NICKEL CHROMIUM STEELS
NICKEL MOLYBDENUM STEELS
NICKEL STEELS
PRECIPITATION HARDENING STEELS
PRESTRESSING STEELS
SILICON MANGANESE STEELS
SILICON STEELS
TITANIUM STEELS
TOOL STEELS
TUNGSTEN STEELS
VANADIUM STEELS
WROUGHT STEELS PRIMER 67-12 M01-83177

ALLOY STEELS, ALLOYING
COMPARISON BETWEEN COLUMBIUM CARBIDE AND FERROCOLUMBIUM AS ADDITIONS TO COLUMBIUM-ALLOYED STEELS 67-06 M04-72298

ALLOY STEELS, ALLOYING EFFECTS
NEW SPANISH STEELS AND COPPER ALLOYS IN FORGINGS FOR THE AUTOMOTIVE INDUSTRY 67-09 M01-77900

ALLOY STEELS, BIMETALS
CARBON MIGRATION IN THE HEAT-AFFECTED ZONE OF THE BIMETAL STEEL-BRONZE 67-02 M14-61914

ALLOY STEELS, BRAZING
SLIM TWO-PIECE GEARS FABRICATED BY BRAZING 67-05 M11-68306

ALLOY STEELS, CASTING
IMPROVING THE QUALITY OF CATERPILLAR CHAIN LINK CASTINGS 67-01 M06-57332
CASTING HIGH-ALLOY STEEL UNDER A LAYER OF LIQUID SYNTHETIC SLAG 67-02 M04-62141
CRYSTALLIZERS FOR CONTINUOUS CASTING OF WIDE SLABS 67-02 M04-62142
CENTRIFUGAL CASTING OF THIN-WALLED STEEL CYLINDERS 67-02 M06-62002
MOULDS FOR THE CONTINUOUS CASTING OF WIDE SLABS 67-04 M04-68184
DEFECTS ENCOUNTERED ON PRECISION CASTINGS 67-04 M06-66184
ANNUAL REVIEW OF UNALLOYED AND ALLOY STEEL CASTINGS. PT. 3 67-05 M07-68522
THE FILL OF NONPREHEATED MOLDS FOR PRECISION CASTING, USING INVESTMENT PATTERNS 67-06 M06-70115
ASBESTITE USED FOR CONSERVATION OF HEAT IN INGOT TOPS 67-07 M04-74136
IMPROVING THE QUALITY OF TRACKLINK CASTINGS 67-07 M06-73054
CENTRIFUGAL CASTING OF THIN-WALLED STEEL RINGS 67-08 M06-76085
CONTINUOUS CONTROL OF TEMPERATURE CONDITIONS IN CASTING KILLED ELECTRIC STEEL 67-09 M04-77863
CAST STRUCTURAL PARTS PRODUCED BY FULL-FORM CASTING 67-10 M06-78643

ALLOY STEELS, CASTINGS
DESIGNING FOR HIGH-STRENGTH STEEL CASTINGS. PT. 1. PRODUCTION AND DESIGN GUIDE LINES 67-03 M06-65202
SURFACE DEFECTS OF STEEL CASTINGS 67-12 M06-83571

ALLOY STEELS, CHEMICAL ANALYSIS
THE SPECTROGRAPHIC ANALYSIS OF MOLTEN STEEL.. A REVIEW 67-01 M04-57205
NEW WAYS OF PREPARING METALLIC SPECIMENS FOR OPTICAL SPECTRUM ANALYSIS 67-01 M19-57922
DETERMINATION OF METALS IN METALS BY ATOMIC ABSORPTION SPECTROPHOTOMETRY 67-01 M19-57931
BASICS OF HEAT TREATMENT. QUENCH IDENTIFICATION TESTS 67-02 M10-59084
X-RAY FLUORESCENCE ANALYSIS IN A STEEL FOUNDRY 67-03 M19-65010
ANALYSIS OF HIGH-ALLOY STEELS 67-06 M19-71706
QUANTOVAC ANALYSIS IN THE FOUNDRY 67-06 M19-72081
CRUCIBLES SYSTEM OF RAPID CHEMICAL ANALYSIS FOR METALLURGICAL RESEARCH 67-07 M19-73091
ANALYSIS OF ALLOYING ELEMENTS IN VARIOUS ALLOYS AND DETERMINATION OF SMALL AMOUNTS OF ELEMENTS BY X-RAY FLUORESCENT SPECTROSCOPY 67-08 M19-74403
COMPLEX NITRIDE IN CR-NI-NB STEELS 67-10 M19-79775
AN ISOTOPE-ASSISTED STUDY OF STRUCTURAL

HETEROGENEITY IN A CARBON AND ALLOY STEEL INGOT 67-11 M19-81014
CONTRIBUTION TO X-RAY SPECTROCHEMICAL TRACE ANALYSIS. THE DIRECT DETERMINATION OF SMALL CONTENTS OF AL, SB, NB, P, SI, V, SN AND ZR IN STEEL 67-11 M19-81376

ALLOY STEELS, CLADDING
METHOD OF MANUFACTURING ALLOY STEEL-PLATED SECTIONS FROM CARBON STEEL 67-12 M12-82904

ALLOY STEELS, COATING
PLASTIC LINED STEEL CONTAINERS 67-01 M12-57299
COATINGS OF HIGH-TEMPERATURE MATERIALS. PT. 1 67-01 M12-58002
APPLICATIONS OF METALLIZING IN THE STEEL MILL 67-01 M18-57163
PROCESSES MODIFYING THE PROPERTIES OF TOOL SURFACES 67-02 M12-60865
AUTOMATIC METAL ARC HARD FACING IN AUSTRALIA 67-02 M12-60910
THE EFFECTIVENESS OF SPRAYED CERAMIC FILMS AS A PROTECTION AGAINST OXIDATION OF STEEL 67-02 M18-60282
THE SURFACE TREATMENT OF EXTRUDED PARTS 67-04 M12-68059
COMBATTING HYDROGEN EMBRITTLEMENT IN STEELS. IMPROVED ELECTROPLATING METHODS AND THEIR USE 67-05 M12-68488
FLAME SPRAYING BY MEANS OF PLASMA AND ELECTRIC ARC 67-05 M12-69122
HARD SURFACING BY OXYGEN-ACETYLENE FLAME, AIDED BY NI AND CO BASE ALLOYS 67-05 M12-69123
SURFACE HARDENING, CORROSION AND SCALING PROTECTION OF STEEL BY METALLIC SURFACE IMPREGNATION 67-05 M18-68734
STABLE BATHS FOR ELECTROPLATING ZINC AND CADMIUM 67-06 M12-71199
EFFECT OF HOT DIP GALVANIZING OF WIRE ON THE THICKNESS AND STRUCTURE OF ZINC COAT 67-09 M12-78284
BRUSH PLATING TECHNIQUES 67-12 M12-82707

ALLOY STEELS, COATINGS
MEASURING TEMPERATURES IN HEAT TREATING 67-02 M19-60862

ALLOY STEELS, CORROSION
CORROSION BEHAVIOR OF STEEL WELDMENTS 67-01 M18-58394
HYDROGEN PENETRATION OF STEEL--SAE 1020 STEEL EXPOSED TO H2S-CO2-H2O 67-01 M18-58764
A STUDY ON CORROSION RATES OF STRANDS BY MAGNETIC MEASUREMENTS 67-02 M18-59161
ON THE MECHANISM OF STRESS CORROSION 67-02 M18-60215
REFINERY REACTOR DESIGN TO PREVENT HIGH TEMPERATURE CORROSION 67-02 M18-60253
SURFACE COLD ROLLING OF MARINE PROPELLER SHAFTS 67-02 M18-60720
THE INDENTATION OF SCALE AND BASE METAL IN LOW-ALLOYED STEELS 67-02 M18-62012
CHLORINE CORROSION ENCOUNTERED WITH THE GENERATION AND PROCESSING OF LURGI PRESSURE GASIFICATION GAS MADE FROM COAL 67-02 M18-62021
STEEL SWIMMING POOLS 67-02 M20-60040
SURFACE PROTECTION BY METAL DIFFUSION 67-03 M18-65706
PRODUCTS, DEVELOPMENTS, APPLICATIONS FOR CORROSION ENGINEERING--FLAME-SPRAYED ALUMINUM COATINGS FOR MARINE ENVIRONMENTS 67-04 M18-66319
OBSERVATIONS OF ZINC ATTACK ON STEEL PANS AND THERMOCOUPLE TUBES IN GAS FIRED WIRE GALVANIZING FURNACES 67-06 M18-71593
INTERNAL OXIDATION DURING CASE HARDENING OF STEELS IN ENDOTHERMIC ATMOSPHERES 67-07 M18-74176
STRESS CORROSION RESISTANCE OF AN ELECTROLYTICALLY ALUMINIZED STEEL 67-09 M18-78040
SOME PHENOMENA OBSERVED RELATING TO FILIFORM CORROSION 67-10 M18-78586
CORROSION FATIGUE OF METALS 67-10 M18-78711
EFFECT OF KATAPIN K ON THE CORROSION BEHAVIOR OF CERTAIN METALS AND ALLOYS IN SULFURIC ACID 67-11 M18-81282
STRESS-CORROSION CRACKING OF QUENCH-HARDENED STEEL WITH WHITE ETCH-RESISTANT SURFACE FILMS 67-12 M18-82184
ELECTROCHEMICAL PROPERTIES AND CHEMICAL PASSIVITY OF ETCH-RESISTANT SURFACE FILMS ON STEEL 67-12 M18-82185
EFFECT OF COMBINED ALLOYING WITH MANGANESE, TUNGSTEN AND MOLYBDENUM ON THE CORROSION FATIGUE AND CORROSION RESISTANCE OF SHKH 15 STEEL 67-12 M18-82191
BEHAVIOR OF STEELS USED FOR AMMONIA SYNTHESIS 67-12 M18-82354

ALLOY STEELS, COUPLINGS
FORGED HIGH PRESSURE HYDRAULIC HOSE FITTINGS 67-05 M20-69553

ALLOY STEELS, CRYOGENIC PROPERTIES
WHATS SO TOUGH ABOUT CRYOGENIC COLD 67-06 M15-70649

ALLOY STEELS, CRYSTAL LATTICES
CRYSTAL STRUCTURE OF QUENCHED STEEL 67-10 M14-80014

ALLOY STEELS, CUTTING
ACTION OF GASEOUS ENVIRONMENT IN METAL CUTTING--SURFACE ROUGHNESS AND TOOL FORCES WHEN MACHINING WITH OXYGEN JET 67-01 M08-57590
APPLICATION OF THE MECHANICS OF PLASTIC DEFORMATION TO METAL CUTTING 67-03 M08-65988

ALLOY STEELS, DEFORMATION
EFFECT OF HEAT TREATMENT ON DEFORMATION AND DIMENSIONAL STABILITY OF 14109 BEARING STEEL 67-02 M10-58985

ALLOY STEELS, DEGASSING
DEGASSING SYSTEM FOR ALLOY STEELS 67-06 M04-71035
DEOXIDATION AND REFINING OF STEEL IN ARC FURNACES OF VARIOUS CAPACITY 67-06 M04-71252
VACUUM TREATMENT AND INERT GAS TREATMENT OF ELECTROMELTED STEELS IN A LADLE 67-06 M04-71253

ALLOY STEELS, DEOXIDIZING
THE PRODUCTION OF FERROSILICONCALCIUM AND ITS USE FOR KILLING STEEL 67-07 M04-73782
MELTING FERROSILICOCALCIUM AND USING IT FOR DEOXIDIZING STEEL 67-09 M04-76545

ALLOY STEELS, DIFFUSION
THE ACCELERATING EFFECT OF NITROGEN ON THE DIFFUSION OF CARBON INTO STEEL DURING HIGH-TEMPERATURE CARBONITRIDING 67-06 M10-70366
HYDROGEN PERMEABILITY OF IRON AND STEEL AT ELEVATED TEMPERATURES 67-12 M14-82425

ALLOY STEELS, EXTRUSION
MOLYBDENUM DIES FOR THE EXTRUSION OF STEEL SHAPES 67-01 M07-57917
EXTRUSION OF STEEL 67-02 M07-60217
STEEL WORKING PROCESSES. PRINCIPLES AND PRACTICE OF FORGING, ROLLING, PRESSING AND OTHER METHODS OF METAL FORMING 67-03 M08-65829
DEVELOPMENT AND STATUS OF THE APPLICATION OF THE EXTRUSION PROCESS TO STEEL 67-06 M07-70452
RESEARCH ON A BACKWARDS CUP-EXTRUSION PRESS 67-08 M07-76300

ALLOY STEELS, FATIGUE /MATERIALS/
RESISTANCE OF STEEL TO FATIGUE BREAKDOWN 67-01 M17-58074
METHOD OF INCREASING THE LIFE OF STEELS AND ALLOYS 67-01 M17-58157

ALLOY STEELS, FORGING
FORGING FACTORS--ELEMENTS OF DEFORMATION AND FRACTURE. PT. 2 67-01 M07-57952
COLD FORMING 67-02 M07-59631
FORGING METALLURGY--STEEL. PT. 2. WHICH ALLOY 67-02 M07-61093
DROP FORGING 67-04 M07-67371
NEW DEVELOPMENTS IN DIE FORGING 67-05 M07-69144
DROP FORGING. A SURVEY OF THE INDUSTRY IN THE U. K. 67-07 M07-72759
CHOOSING ALLOY STEEL BARS FOR FORGING 67-08 M07-75496
AUSFORGING GIVES ADDED STRENGTH TO STEEL 67-08 M08-76180
THE MANUFACTURE OF LARGE FORGINGS 67-10 M07-78456
EXPERIMENTAL STAMPING OF ROTARY-TYPE TOOTHED DRILL BITS 67-10 M07-78547
PROGRESS IN THE MANUFACTURE OF LARGE FORGINGS 67-10 M07-79285
STUDIES ON FORMING TECHNIQUES AT THE FREIBERG ACADAMY 67-12 M07-81962

ALLOY STEELS, FORGINGS
A DECADE OF IMPROVEMENTS IN GENERATOR ROTOR FORGINGS 67-06 M17-70725

ALLOY STEELS, FORMING
DESIGN, CONSTRUCTION AND INITIAL PRODUCTION OF THE NO. 3 WIRE ROD MILL OF SUMITOMO METAL INDUSTRIES KOKURA STEEL WORKS 67-03 M07-65929
DEVELOPMENTS IN EXPLOSIVE FORMING 67-04 M08-66900

JET-AGE JOBS FOR FORM ROLLING 67-05 M08-68307
TO BEAT THE COST OF COLD FORMING--TRY WARM FORMING 67-05 M08-68664
KINEMATIC AND FORCE PARAMETERS OF HELICAL CROSS ROLLING UNDER VARIOUS CONDITIONS OF DEFORMATION 67-08 M07-75015
INFLUENCE OF THE VIBRATION METHOD OF DEFORMATION ON THE STRUCTURE OF METALS 67-08 M07-76028
STAMPING OF LIQUID STEEL 67-09 M08-76409

ALLOY STEELS, GEARS
STRAIGHTENING SYSTEM ALSO INSPECTS AUTOMOTIVE PINION SHAFTS 67-06 M08-70681
PRECISION COMPONENTS DEMAND SPECIALIZED HEAT TREATMENT 67-11 M10-81133

ALLOY STEELS, HARD SURFACING
RECLAMATION OF WORNOUT SURFACES BY RESISTANCE WELDING TECHNIQUE 67-02 M12-60137
WORN SURFACES RECONDITIONED BY RESISTANCE WELDING 67-04 M12-67677

ALLOY STEELS, HARDENING
INDUCTION HEATING OF CALIBRATED BALL BEARING STEEL 67-02 M10-60852
ACCELERATED INDUCTION TEMPERING OF OIL DRILL PIPES FROM 36G2S AND 38KHNM ALLOY STEELS 67-02 M10-60855
STRENGTHENING OF STEELS WITH LASER BEAMS 67-08 M10-76042

ALLOY STEELS, HEAT TREATMENT
THE THIN-WIRE WAY TO HEAT TREATING 67-01 M10-58014
NEW 196-FT. ROLLER HEARTH FURNACE INSTALLED AT BETHLEHEM-LOS ANGLES 67-01 M10-58526
HIGH VACUUM ANNEALING 67-01 M10-58527
SHORT CUTTING OF SPHEROIDIZING DURATION OF BALL BEARING STEEL BY AUSTEMPERING ANNEALING 67-02 M10-59154
HEAT TREATING CRANKSHAFTS 67-02 M10-59456
DISTORTION OF PARTS DURING HEAT TREATMENT 67-02 M10-59805
DEFECT-FREE HEAT TREATMENT OF ALLOY STRUCTURAL STEELS 67-02 M10-60845
DEFORMATION OF STEEL DURING QUENCHING 67-02 M10-60846
DEFORMATION OF CARBURIZED CYLINDRICAL GEARS DURING HEAT TREATMENT 67-02 M10-60847
OBTAINING CONTROLLED ATMOSPHERES IN FLUID BED HEATING FURNACES 67-02 M10-60854
BASIC HEAT TREATING PRACTICES 67-02 M10-60863
DISSOLUTION AND PRECIPITATION OF ALUMINUM NITRIDE IN LOW-ALLOY STEEL 67-02 M14-59944
GEAR CAPACITIES MULTIPLY WITH BATH NITRIDING 67-03 M10-65013
FRICTION HARDENING GIVES SUPERHARD STEELS 67-03 M10-65479
HARDENABILITY OF 65S2VA STEEL 67-04 M10-66457
NITRIDING OF MACHINE PARTS MADE OF ALUMINUM-FREE STEELS 67-04 M10-67961
LOW-TEMPERATURE GAS CYANIDING OF STEELS FOR MOLDS 67-04 M10-67966
HEAT TREATMENT PROBLEMS SOLVED BY NEW QUENCHING MEDIUM 67-04 M10-68173
COMMISSIONING A NEW ROLLER-HEARTH TUNNEL FURNACE FOR THE HEAT TREATMENT OF TUBES OF STEEL SHKH15 67-04 M10-68198
ALPHATIZING--A NEW CHROMIZING METHOD 67-04 M12-67799
THE TEMPERING BEHAVIOR OF THE 34CR4 ALLOY --BSO-- AND 41CR4 --BSO SPECIAL-- STEELS 67-04 M17-67710
FURNACE VERSATILITY IS KEY TO SUCCESS FOR NEW COMMERCIAL HEAT TREATER 67-05 M10-69200
NITRIDING AND CARBONITRIDING OF STEELS BY MEANS OF AN AMMONIA-LANCED OXYACETYLENE FLAME 67-05 M10-69329
HIGH-SPEED HEATING OF CARBON AND ALLOY STEEL 67-06 M10-70103
HEAT TREATMENT OF STRUCTURAL STEELS AND OF TOOL STEELS. PT. 2 67-06 M10-70855
SUBSTITUTE TUNGSTEN STEELS IN THE AUTOMOBILE INDUSTRY 67-06 M10-71816
HEAT TREATMENT OF LOW-CARBON STEELS 67-06 M10-71933
HEAT TREATMENTS AND THEIR EFFECTS ON FATIGUE STRENGTH OF PARTS 67-06 M10-72145
EFFECT OF HEAT TREATMENT ON NI-AL AGE HARDENING STEELS 67-06 M14-71739
RESIDUAL STRESSES AND FATIGUE LIFE OF CASE-CARBURIZED GEARS 67-06 M17-70878
INCREASED RELIABILITY OF A HIGH-STRENGTH STEEL THROUGH THERMAL-MECHANICAL TREATMENTS 67-06 M17-71081
DEFECTS IN THE SURFACE HARDENING OF MACHINE PARTS--THEIR CAUSES AND PREVENTION 67-07 M10-72606
THE EFFECT OF PROLONGED ANNEALING ON THE PROPERTIES OF LARGE FORGINGS 67-07 M10-72760
HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT OF STEEL 55S2 --AISI 9255-- ADDITIONALLY ALLOYED WITH CARBIDE-FORMING ELEMENTS 67-07 M10-73005
THE CARBURIZING OF CASE HARDENING STEELS IN THE TEMPERATURE RANGE OF 920 TO 1100 C 67-07 M10-73185
A STUDY OF PACK CARBURIZING AND SOME CASE HARDENING TECHNIQUES ON 3 PER CENT NI, 1 PER CENT CR CASE HARDENING STEEL 67-07 M10-73201
HEAT TREATMENT OF LARGE FORGINGS 67-07 M10-73717
BASIC FACTORS INFLUENCING THE AUSTENITIZING TEMPERATURES OF STEELS 67-07 M10-73839
USE OF GLOW DISCHARGE FOR CASE HARDENING 67-07 M10-74177
TWO-STEP NITRIDING IN AMMONIUM AND NITROGEN 67-07 M10-74179
DISSOLUTION AND PRECIPITATION OF ALUMINIUM NITRIDE IN LOW-ALLOY STEEL 67-07 M14-72599
REMOVAL OF HYDROGEN FROM SMALL FORGINGS 67-08 M10-74354
NITRIDING OF STEEL IN A MIXTURE OF NITROGEN AND AMMONIA 67-08 M10-74974
STUDY OF A HEAT TREATING FURNACE WITH A SLIDING BOTTOM AND INTENSIVE RECIRCULATION OF COMBUSTION PRODUCTS 67-08 M10-75487
USE OF PROTECTIVE AND REACTION GASES IN THE HEAT TREATMENT OF COLD FORMED STEEL BLANKS 67-08 M10-75510
AGING BEHAVIOR OF 5 PER CENT NICKEL-2 PER CENT ALUMINIUM AGE HARDENING STEELS 67-08 M10-75759
TREATMENT OF ALLOYED STRUCTURAL STEELS TO PREVENT THE FORMATION OF FLOCCULES 67-08 M10-76103
DEFORMATION OF STEEL DURING QUENCHING 67-08 M10-76104
HEAT TREATMENT OF CALIBRATED BALL BEARING STEEL WITH HIGH-FREQUENCY CURRENT 67-08 M10-76110
DECARBURIZING AND SCALING OF TOOL STEEL BILLETS WHEN HEATED IN INDUCTION FURNACES 67-09 M10-76412
ELECTRIC TEMPER OF SPRING STEEL 67-09 M10-77372
INFLUENCE OF COOLING RATES ON CRACK FORMATION DURING STEEL QUENCHING 67-09 M10-77403
COMPRESSED AIR AS A COOLANT FOR SURFACE QUENCHING 67-09 M10-77404
INVESTIGATION OF STEEL NITRIDED IN NITROGEN DILUTED AMMONIA 67-09 M10-77419
POSSIBLE APPLICATIONS OF TUNGSTEN CASE-HARDENING STEELS 67-09 M10-77885
EXPERIENCE OF USING SHIELDING ATMOSPHERES IN HEAT TREATING FURNACES 67-10 M10-78373
COOLING TRANSFORMATION DIAGRAM FOR AISI 8620 67-10 M10-78761
NEW SPANISH STEELS AND COPPER ALLOYS IN FORGINGS 67-10 M10-78873
STUDY ON THE NITRIDING OF ALLOY STEELS 67-10 M10-79060
SUBMERGED INTENSIFIER GEAR HARDENING FOR LOW DISTORTION 67-10 M10-79525
DEVELOPMENT TENDENCIES IN THE SURFACE HARDENING OF GEARS 67-10 M10-79791
SURFACE ATTACK IN CARBONITRIDED INGOT IRON AND AISI 8620 STEEL 67-11 M10-80519
HARDENABILITY OF 65S2VA STEEL 67-11 M10-80998
FURNACES IN USE--RECENT INSTALLATIONS 67-11 M10-81492
RAPID HEATING OF STEEL FOR HOT WORKING. PT. 3. THE METALLURGICAL EFFECTS OF RAPID HEATING 67-12 M10-81947
ADVANTAGES OF HIGH TEMPERATURE CARBURIZING 67-12 M10-82554
THE HEAT TREATMENT OF STEELS 67-12 M10-83167
EFFECT OF REPETITION ON GAS NITRIDING CYCLES ON THREE TYPES OF STEEL 67-12 M10-83567
GAS CARBURIZING 67-12 M10-83576
THE EFFECT OF THERMAL AND MECHANICAL FINAL TREATMENTS ON THE FATIGUE BEHAVIOR OF CHROMIZED BOLTS 67-12 M12-83148

ALLOY STEELS, HEATING
EFFECT OF WELDING ON MECHANICAL PROPERTIES

ALLOY STEELS

OF HEAT TREATED LOW-ALLOY STEEL 67-01 M17-57387
RAPID HEATING OF BILLETS FROM HOT STATE 67-02 M07-62279

ALLOY STEELS, INCLUSIONS
THE DETERMINATION OF OXIDE INCLUSIONS IN STEEL 67-02 M04-60206

ALLOY STEELS, INGOTS
ELECTRICAL MODELING OF THE FORMATION OF A PIPE IN A STEEL INGOT 67-02 M04-61742
INVESTIGATIONS OF THE SURFACE ZONE OF CONTINUOUSLY MELTED INGOTS FROM THE MULTICHAMBER ELECTRON BEAM FURNACE 67-11 M04-80202

ALLOY STEELS, MACHINABILITY
EFFECT OF THE PEARLITIC STRUCTURE ON THE MACHINABILITY OF CEMENTED STEELS 67-07 M08-73202

ALLOY STEELS, MACHINING
HOW HEAT AFFECTS TOOL WEAR 67-01 M08-58509
ULTRASONIC ASSISTANCE TO CONVENTIONAL METAL REMOVAL 67-01 M08-58519
THE PRODUCTION APPROACH TO EDM 67-01 M08-58525
CUTTING FLUID APPLICATIONS--HOW IT CAN IMPROVE YOUR MACHINING DOLLAR 67-01 M08-58550
CUTTING FORCE CHARACTERISTICS AT HIGH CUTTING RATES 67-02 M08-60222
POSSIBLE APPLICATIONS FOR HIGHLY WEAR-RESISTANT CUTTING MATERIALS 67-02 M17-59617
ECM TAILORED FOR PRECISION 67-03 M08-65039
HIGH POSITIVE RAKE CUTTERS--BIDDING TO SOLVE YOUR PRODUCTIVITY PROBLEM 67-04 M08-67633
CERAMIC CUTTING TOOLS--APPLICATIONS AND PROBABLE FUTURE DEVELOPMENTS 67-04 M20-66154
PINION OUTPUT DOUBLED WITH AUTOMATIC PLUNGE FORM GRINDING 67-05 M08-68662
ONE-SHOT MACHINING 67-05 M08-68789
HOW TO DETERMINE CUTTER GEOMETRIES FOR OPTIMUM PERFORMANCE. PT. 2 67-05 M08-69591
THE EFFECT OF TOOLS AND WORKING CONDITIONS ON THE BOUNDARY ZONES OF HARDENED STEELS AND CARBIDES WITH CONVENTIONAL AND ELECTROLYTIC GRINDING 67-06 M08-70045
TOOL CORRECTIONS AND ELECTROLYTE APPLICATIONS IN ELECTROCHEMICAL MACHINING 67-07 M08-72428
A NEW ELECTROLYTE FOR ELECTROCHEMICAL MACHINING 67-07 M08-72795
MACHINING OPERATIONS ON ROCKER SHAFT COMPONENTS 67-07 M08-73371
EFFECT OF LEAD ON MACHINABILITY OF CEMENTED STEELS 67-08 M08-75399
MACHINABILITY OF STEELS. PT. 2 67-09 M08-78198
DRILL DESIGN AND APPLICATION REQUIREMENTS FOR OPTIMUM COOLANT-FEEDING TWIST DRILL USAGE 67-10 M08-79504
THE ELYSIR METHOD--ELECTROCHEMICAL MACHINING 67-10 M08-79959
A NEW ELECTROLYTE FOR ELECTROCHEMICAL MACHINING. PT. 1. DEVELOPMENTAL STUDIES 67-11 M08-80828
SURFACE FORMING BY REVOLVING AND SPARK DISCHARGE MACHINING METHODS 67-12 M08-81996
THERMAL COEFFICIENTS. A PROPOSED MACHINABILITY INDEX 67-12 M08-82949

ALLOY STEELS, MECHANICAL PROPERTIES
SUBSTRUCTURAL STRENGTHENING IN MATERIALS SUBJECT TO LARGE PLASTIC STRAINS 67-01 M17-57407
MECHANICAL METHODS OF MEASURING RESIDUAL STRESSES IN COMPOSITE MATERIALS 67-01 M17-57664
EFFECT OF NONMETALLIC INCLUSIONS ON THE STRENGTH OF QUENCHED SHKH15 STEEL DURING HYDROGENATION 67-01 M17-57665
HIGH STRENGTH STRUCTURAL STEELS. PT. 4 67-01 M17-58530
INFLUENCE OF ULTRASONIC VIBRATION ON METALLIC FRICTION 67-01 M17-58560
CREEP-RUPTURE PROPERTIES OF 1 PER CENT CR-0.5 PER CENT MO, 1.25 PER CENT CR-0.5 PER CENT MO AND 2.25 PER CENT CR-1 PER CENT MO STEELS FOR BOILERS AND CHEMICAL USES 67-01 M17-58563
PLASTICITY OF BODY-CENTERED CUBIC METALS AT HIGH STRAIN RATE 67-01 M17-58598
THE FRACTURE BEHAVIOR OF MATERIALS AND SAFETY IN STRUCTURES 67-01 M17-58793
POSSIBILITIES AND ASPECTS OF THE EVALUATION OF TOUGHNESS TESTS WITH RESPECT TO BRITTLE FRACTURE SAFETY 67-01 M17-58795
CRITERIA FOR ENDURANCE LIMITS OF STEEL 67-02 M17-58815
EFFECT OF INFREQUENT COMPRESSION CYCLES ON THE FATIGUE LIMIT OF STRUCTURAL ELEMENTS 67-02 M17-58833
A RAPID DETERMINATION OF THE FATIGUE STRENGTH OF GALVANIZED STEEL 67-02 M17-58834
A METHOD OF CONSTRUCTING AND ANALYZING TRUE TENSILE DIAGRAMS 67-02 M17-58837
ON THE CONNECTION BETWEEN TENSILE AND YIELD LIMITS OF STEEL DURING TENSION 67-02 M17-58839
RESEARCH ON THE FATIGUE STRENGTH OF PRESS-FITTED SPECIMENS 67-02 M17-58848
DEFORMATION RESISTANCE OF EP375 AND EP495 ALLOYS 67-02 M17-58878
STUDIES ON EMBRITTLEMENT OF STEELS BY MEANS OF HARDNESS MEASUREMENTS 67-02 M17-58936
IMPROVING THE CRACKING RESISTANCE OF MEDIUM-CARBON LOW-ALLOY STEEL 67-02 M17-59185
THE CAVITATION BREAKDOWN OF STEELS MADE IN AN ELECTRIC ARC FURNACE 67-02 M17-59552
EFFECT OF NEUTRON IRRADIATION ON THE PROPERTIES OF HIGH-ALLOY FERRITIC STEELS 67-02 M17-59555
PROPERTIES OF FERROUS FORGINGS 67-02 M17-59629
EFFECT OF THE PURITY OF STEEL AND OF THE CORROSIVE MEDIUM ON LOW-CYCLE FATIGUE 67-02 M17-59655
FATIGUE STUDIES OF MARINE THREAD JOINTS 67-02 M17-59704
FISH EYE APPEARING ON THE FATIGUE FRACTURED SURFACE OF BALL BEARING STEEL 67-02 M17-59710
HYDROGEN ACTION IN THE PHENOMENA OF DELAYED FRACTURE IN THE FIELD OF HIGH-STRENGTH STEELS 67-02 M17-59711
STUDY OF CHANGES OF INTERNAL DAMPING AND YOUNGS MODULUS IN HARDENED STEELS 67-02 M17-59716
IMPROVEMENT OF SURFACE HARDNESS OF QUENCHED ALLOY STEEL BY WORK HARDENING AND TEMPERING AT 200 C 67-02 M17-59772
INVESTIGATION OF THE ENDURANCE OF HIGH-STRENGTH REINFORCING BARS FROM LOW-ALLOY STEEL OF THE A-IV CLASS 67-02 M17-59788
HARDENABILITY MEASUREMENTS. PT. 3 67-02 M17-60044
KINETICS OF DEVELOPMENT OF REVERSE TEMPER BRITTLENESS IN SHEET STEEL 67-02 M17-60139
RELAXATION TESTS WITH ALTERNATING TEMPERATURES 67-02 M17-60209
PROPERTIES OF STEEL MADE BY DIFFERENT PRODUCTION METHODS 67-02 M17-60283
THE FATIGUE STRENGTH OF SINTERED MATERIALS 67-02 M17-60507
STUDY ON THE FATIGUE STRENGTH OF ROLLER-CHAIN LINK PLATE. THE EFFECTS OF LINK PLATE FORM, SHOT-PEENED AND FINISHED HOLE 67-02 M17-60660
INVESTIGATION OF TEMPER BRITTLENESS OF SPRING STEEL 67-02 M17-60739
INVESTIGATION OF ABRASIVE RESISTANCE OF NEW MATERIALS 67-02 M17-60980
PROPERTIES OF MANGANESE STEELS ALLOYED WITH CARBIDE-FORMING ELEMENTS 67-02 M17-61974
EFFECT OF HYDROGEN ON FORMATION OF WELD AFFECTED ZONE CRACKS IN WELDING HARDENING STEELS 67-03 M11-65048
THE STRESS AND STRAIN DISTRIBUTION AT THE NECK OF A TENSILE SPECIMEN 67-03 M17-65197
NEW DATA ON STEEL FOR HYDROCRACKING 67-03 M17-65810
REASONS FOR THE HIGH IMPACT STRENGTH OF STEEL CONTAINING RARE EARTH METALS 67-04 M13-67967
WEAR-RESISTANT STEEL 67-04 M17-66102
TEMPER BRITTLENESS OF CAST STEEL 67-04 M17-66361
EFFECT OF ALLOYING AND TEMPERING ON MECHANICAL PROPERTIES OF PATENTED COLD DRAWN WIRE 67-04 M17-66823
A DISCUSSION OF SLOW CRACK GROWTH ASSOCIATED WITH PLANE-STRAIN INSTABILITY 67-04 M17-66936
FATIGUE LIMITS OF CERTAIN REFINED ALLOY STEELS 67-04 M17-67135
MECHANICAL PROPERTIES AND INHOMOGENEITY OF LARGE FORGINGS 67-04 M17-67370
PLASTIC TORSION 67-04 M17-67611
KINETICS OF THE DEVELOPMENT OF REVERSIBLE TEMPER BRITTLENESS IN CAST STEEL 67-04 M17-67679
POSSIBILITY OF USING CASE-HARDENING STEELS CONTAINING TUNGSTEN 67-04 M17-67701
FATIGUE RESISTANCE AND WORKING LIFE OF MACHINE PARTS HARDENED BY CHEMICOTHERMAL TREATMENT 67-04 M17-67954
METHOD OF EVALUATING THE EFFECT OF PEAK LOADS ON THE FATIGUE STRENGTH OF LARGE-SCALE SPECIMENS UNDER VARIABLE LOAD 67-04 M17-68078

THE EFFECT OF WIDELY SPACED COMPRESSION CYCLES ON THE STRENGTH OF A STRUCTURAL ELEMENT 67-04 M17-68079
ACCELERATED DETERMINATION OF THE FATIGUE LIMIT OF STEEL WITH GALVANIC COATINGS 67-04 M17-68080
A METHOD FOR CONSTRUCTING AND ANALYZING TRUE STRESS-STRAIN DIAGRAMS 67-04 M17-68083
ON THE RELATIONSHIP BETWEEN THE TENSILE STRENGTH AND YIELD POINT FOR STEELS 67-04 M17-68085
NEW CASE-HARDENABLE 20KHGSVT STEEL 67-04 M20-67959
USE OF LOW-NICKEL AND NICKEL-FREE STEELS FOR HEAVILY STRESSED TRACTOR GEARS 67-04 M20-67960
PROLONGED RESISTANCE OF EI579 STEEL TO HIGH TEMPERATURES IN HYDROGEN 67-05 M17-68364
EVALUATING COLD SHORTNESS FROM THE FORM OF THE FRACTURE 67-05 M17-68741
DETERMINING THE COLD-SHORTNESS THRESHOLD OF STEEL BY A MICROFRACTOGRAPHIC METHOD 67-05 M17-68742
ON THE EVALUATION OF THE EFFECT OF ATMOSPHERIC CORROSION ON THE TENDENCY OF STEELS TO BRITTLE FRACTURE 67-05 M17-68743
ON THE METHOD OF TESTING OF LOW-CARBON STEEL FOR ITS SENSITIVITY TO MECHANICAL AGING 67-05 M17-68745
STUDY OF THE EFFECT OF A NOTCH ON THE FATIGUE BEHAVIOR OF A CR-MO STEEL 67-05 M17-68783
STEELS IN NUCLEAR ENGINEERING 67-05 M17-69545
LONG-TERM STRENGTH IN CONDITIONS OF STRESS RELAXATION 67-05 M17-69613
LOW-CYCLE FATIGUE OF LARGE-DIAMETER BOLTS 67-05 M17-69701
THE USE OF HIGH-STRENGTH STEEL PLATES IN THE FABRICATION OF FULL PIPES 67-05 M20-69349
THE ESTIMATION OF FATIGUE STRENGTH OF STEELS BY CORRELATION FORMULAS 67-06 M17-70034
PROPERTIES OF 55KHGR STEEL AFTER AUSFORMING AND REPEATED QUENCHING 67-06 M17-70070
INFLUENCE OF DEFORMATION TEMPERATURE DURING AUSFORMING ON MECHANICAL PROPERTIES AND DUCTILE BRITTLE TRANSITION IN STRUCTURAL ALLOY STEEL 67-06 M17-70072
FATIGUE FAILURE ANALYSIS AND PREVENTION 67-06 M17-70125
A MECHANISM FOR CRACK FORMATION IN HY-80 STEEL WELDMENTS 67-06 M17-70140
RESEARCH INTO THE PROPERTIES OF LOW-NICKEL AND NICKEL-FREE CASE-HARDENABLE STEELS FOR HIGHLY STRESSED GEARWHEELS 67-06 M17-70346
INFLUENCE OF METALLURGICAL DEFECT SIZE ON THE FATIGUE PROPERTIES OF CAST STEEL 67-06 M17-70822
RELATION BETWEEN CREEP-ELONGATION AND INTERGRANULAR CAVITIES IN STRESS-RUPTURE TESTING OF A CHROMIUM-NICKEL-MOLYBDENUM STEEL 67-06 M17-70828
CREEP RUPTURE PROPERTIES OF A COMPLEX AUSTENITIC ALLOY IN THE PRE-STRAINED CONDITION 67-06 M17-70880
HIGH-TEMPERATURE SPRINGS 67-06 M17-71231
THE INFLUENCE OF DIFFERENT MACHINING PROCESSES ON THE MECHANICAL AND CORROSION-CHEMICAL BEHAVIOR OF A HEAT TREATED STEEL 67-06 M17-71507
INFLUENCE OF THE TYPE OF LOADING ON THE RESULTS OF FATIGUE TESTS ON STEELS 67-06 M17-71511
WELDED MEDIUM TENSILE STEEL IN MURRAY 1 PIPELINE 67-06 M17-71590
AN INSTRUMENTED CHARPY TEST AND ITS APPLICATION TO THE STUDY OF THE STATES OF BRITTLENESS IN STEEL 67-06 M17-71814
FAILURE OF A 3000-HP MINE FAN 67-06 M17-71888
PROBLEMS, PROPERTIES AND SELECTION OF STRUCTURAL METALS FOR USE IN CRYOGENIC ENVIRONMENT 67-06 M17-72092
PROBLEMS WITH TURBINE AND GENERATOR MATERIALS 67-06 M20-70726
SOME FEATURES OF THE BRANCHING OF CRACKS IN STEEL 67-07 M17-73014
LOW-TEMPERATURE EMBRITTLEMENT OF IRON, IRON ALLOYS, AND STEELS BY NEUTRON IRRADIATIONS 67-07 M17-73379
FRACTURE BEHAVIOUR OF TWO CREEP-RESISTANT MATERIALS SUBJECTED TO CYCLIC LOADING AT ELEVATED TEMPERATURE 67-07 M17-74086
IMPROVED HARDENABILITY OF STEELS QUENCHED FROM FORGING AND ROLLING TEMPERATURES 67-07 M17-74196
MECHANICAL PROPERTIES OF CARBONITRIDED STEELS. PT. 2. THE FATIGUE STRENGTH OF CARBONITRIDED STEELS--THE RELATIONSHIP BETWEEN RESIDUAL AUSTENITE CONTENT IN CARBONITRIDED LAYERS AND FATIGUE STRENGTH 67-07 M17-74210
THE INFLUENCE OF THE INTERMEDIATE PRINCIPAL STRESS ON FATIGUE UNDER TRIAXIAL STRESSES 67-08 M17-74682
DETERMINATION OF PLANE STRAIN FRACTURE TOUGHNESS 67-08 M17-74683
INFLUENCE OF THERMOMECHANICAL TREATMENT ON THE PROPERTIES OF 36NKHTYU, 36NKHTYUM8 AND 42NKHTYU SPRING ALLOYS 67-08 M17-74982
X-RAY AND FATIGUE STUDIES OF HARDENED AND COLD-WORKED STEELS 67-08 M17-75346
MEASURING STRESS ON MAGNETIC-HARD STEELS BY THE MAGNETO-ELASTIC METHOD 67-08 M17-75349
THE STRENGTH AND TOUGHNESS OF DYNAMICALLY STRAIN AGED ALLOY STEEL SHEETS 67-08 M17-76158
CORROSION RESISTANT STEELS, ESPECIALLY FOR COLD ROLLED SHEET AND STRIP APPLICATIONS 67-08 M17-76290
A NOTE ON THE INFLUENCE OF CUTTING SPEED ON THE HARDNESS OF FLAME CUT BS. 968 --1962-- STEEL 67-09 M17-76359
COCKENZIE--BRITTLE FRACTURE FAILURE 67-09 M17-76514
STEELS FOR HOUSING SOLID FUEL ROCKET MOTORS 67-09 M17-77191
EFFECT OF ALUMINUM ON THE DAMPING CURVE AND SOLUBILITY OF CARBON IN ALPHA-IRON 67-09 M17-77192
STRUCTURAL CHANGES AND THEIR EFFECT ON THE CREEP RUPTURE STRENGTH OF CHROMIUM-MOLYBDENUM STEEL 67-09 M17-77196
INFLUENCE OF THE AUSTENITIZING HEATING RATE ON THE PROPERTIES OF QUENCHED AND TEMPERED STEELS 67-09 M17-77306
INFLUENCE OF THE STRUCTURE ON SUSCEPTIBILITY TO BRITTLE FRACTURE OF 40KHNMA STEEL 67-09 M17-77407
WORK HARDENING STEEL IN THE MARTENSITIC TRANSFORMATION RANGE 67-09 M17-77786
TEMPERATURE DEPENDENT SHEAR RUPTURE IN LOW CHROMIUM AND MOLYBDENUM STEELS 67-09 M17-78231
YOU CAN AVOID THE HIGH COST OF HEAVY MACHINERY FAILURES 67-10 M17-78628
FOR HIGH FATIGUE STRENGTH, SELECT A STRONG STEEL 67-10 M17-78633
EVALUATING ALLOYS FOR FAILURE-SAFE STRUCTURES 67-10 M17-78763
PROPERTIES OF 55KHGR STEEL AFTER HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT AND REPEATED QUENCHING 67-10 M17-78816
EFFECT OF THE TEMPERATURE OF DEFORMATION DURING THERMOMECHANICAL TREATMENT ON THE MECHANICAL PROPERTIES AND COLD BRITTLENESS THRESHOLD OF STRUCTURAL ALLOY STEEL 67-10 M17-78818
IMPROVING THE TEAR RESISTANCE OF MEDIUM-CARBON AND LOW-ALLOY STEEL 67-10 M17-78894
THE BEND STRENGTH OF HARDENABLE STRUCTURAL STEELS DURING DELAYED BREAKDOWN 67-10 M17-78980
THE ORIGIN OF MICROCRACKS IN METALLIC MATERIALS BEING SUBJECTED TO ALTERNATING STRESSES 67-10 M17-79063
BENDING WITHOUT BREAKING 67-10 M17-79184
EFFECT OF WORKHARDENING AND LOADING CONDITIONS ON FATIGUE STRENGTH AND LONGEVITY 67-10 M17-79333
FATIGUE CRACK PROPAGATION IN THE HARDENED STEEL 67-10 M17-79598
A CRITERION FOR FATIGUE FRACTURE UNDER MULTIAXIAL ALTERNATING STRESS STATE 67-10 M17-79599
STUDY OF THE CHARACTERISTICS OF STEEL DURING DEFORMATION AT HIGH RATES 67-10 M17-79741
ULTRASONIC DETECTION OF CRACK EXTENSION IN THE W. O. L. TYPE FRACTURE TOUGHNESS SPECIMEN 67-10 M17-79748
INTERGRANULAR FRACTURE OF ALLOY STEELS 67-10 M17-79771
INNER SPACE--A METALLURGICAL CHALLENGE 67-10 M17-79781
MICROFRACTOGRAPHIC FEATURES OF THE DIFFERENT BRITTLE FRACTURES ASSOCIATED WITH THE TEMPERING OF STEELS 67-10 M17-80015
VACUUM ARC MELT FOR SAFE LANDINGS 67-10 M20-78596
NEW PLATE TECHNOLOGY EQUALS NEW MARKETS

ALLOY STEELS

67-10 M20-80094
N2-ALLOYED HEAT AND SCALING-RESISTANT STEEL CASTINGS. PT. 2 67-11 M01-81545
REVERSE BENDING FATIGUE STRENGTH OF ALLOYED QUENCHED AND HARDENED STEELS AFTER INDUCTIVE SURFACE HARDENING 67-11 M17-80102
THE HARDENING BEHAVIOR OF VACUUM MELTED STEELS 67-11 M17-80214
INFLUENCING THE STRENGTH PROPERTIES OF CU-NI-MO STEELS AFTER THERMOMECHANICAL WORKING THROUGH SPECIAL MELTING TECHNIQUES 67-11 M17-80218
THE INFLUENCE OF THE DEGREE OF DEFORMATION ON THE PROPERTIES OF ULTRAPURE STEELS 67-11 M17-80219
MECHANICAL-TECHNOLOGICAL PROPERTIES OF ULTRAPURE STRUCTURAL STEELS 67-11 M17-80221
HIGH-TEMPERATURE PROPERTIES OF STEELS--AN INTRODUCTION 67-11 M17-80251
THE EFFECT OF RATE OF STRAINING ON THE 0.2 PER CENT PROOF STRESS AND LOWER YIELD STRESS OF STEEL 67-11 M17-80259
THE PRESENT POSITION IN GERMAN CREEP TESTS ON STANDARD CREEP-RESISTANT STEELS 67-11 M17-80262
EFFECT OF MOLYBDENUM ON THE HIGH-TEMPERATURE RUPTURE STRENGTH OF CARBON STEEL 67-11 M17-80265
THE HIGH-TEMPERATURE PROPERTIES OF A MN-CR-MO-V NORMALIZED AND TEMPERED STEEL--DUCOL W30 67-11 M17-80270
SOME CREEP AND RUPTURE PROPERTIES OF A FORGED LOW-ALLOY MN-CR-MO-V STEEL 67-11 M17-80272
IMPROVED BOILER-PLATE STEELS 67-11 M17-80277
HIGH-TEMPERATURE PROPERTIES OF STEELS 67-11 M17-80288
A FRACTOGRAPHIC ANALYSIS OF THE RELATIONSHIPS BETWEEN FRACTURE TOUGHNESS AND SURFACE TOPOGRAPHY IN ULTRAHIGH-STRENGTH STEELS 67-11 M17-80579
THE APPLICATION OF THERMOMECHANICAL TREATMENTS TO STEELS 67-11 M17-80685
HIGH-TEMPERATURE STEELS IN STEAM TURBINES 67-11 M20-80283
NEW HIGHLY WEAR RESISTANT ALLOYS FOR ROLL GUIDE UNITS OF ROD MILLS 67-12 M07-81871
INVESTIGATION OF THE EFFECT OF THE SURFACE TEMPERATURE AND ROLLING SPEED DURING LOW-TEMPERATURE AUSROLLING ON THE MECHANICAL PROPERTIES OF 45KHNT AND 60KHNYU STEEL 67-12 M07-83328
REDUCING THE SUSCEPTIBILITY OF NICKEL-CHROMIUM QUENCHED AND TEMPERED STEEL TO FLAKING 67-12 M17-81951
STEELS FOR BOILER PLATE AND PRESSURE EQUIPMENT PERFORMING AT HIGH TEMPERATURES. PT. 8 67-12 M17-82143
THE EFFECT OF NONMETALLIC NICLUSIONS ON THE FATIGUE STRENGTH OF QUENCH-HARDENED STEEL 67-12 M17-82189
THE EFFECT OF STRESS REVERSAL FREQUENCY ON THE FATIGUE STRENGTH OF STEEL 67-12 M17-82196
CONSTANT-LOAD CREEP DATA INTERPRETED IN TERMS OF THE STRESS DEPENDENCE OF DISLOCATION VELOCITY 67-12 M17-82961
THE THEORY OF NOTCH-BRITTLENESS IN STEELS OCCURRING DURING TIME-TO -RUPTURE TESTS 67-12 M17-83252
AUSFORMING STUDY OF THE WORK HARDENING OF METASTABLE AUSTENITE 67-12 M17-83495

ALLOY STEELS, MECHANICAL TESTS
METHOD OF EVALUATING THE INFLUENCE OF PEAK LOADS ON THE FATIGUE STRENGTH OF LARGE SPECIMENS DURING ALTERNATE LOADING 67-02 M17-58832

ALLOY STEELS, MELTING
IMPROVING THE QUALITY OF 40KHNMA STEEL BY ELECTROSLAG REMELTING 67-01 M04-57256
CONSUMABLE VACUUM ARC MELTED INGOT 67-02 M04-58938
DEOXIDATION IN ELECTROSLAG REMELTING 67-02 M04-61249
PRODUCTION OF BALL BEARING STEEL IN ELECTRIC FURNACES OF VARIOUS CAPACITIES 67-02 M04-62144
CONSUMABLE ELECTROFLUX REMELTING--THE HOPKINS PROCESS. PT. 2 67-03 M04-65472
DEOXIDATION PROCESSES DURING ELECTROSLAG REMELTING 67-04 M04-66522
PRODUCTION OF BEARING STEEL IN ELECTRIC FURNACES WITH DIFFERENT CAPACITIES 67-04 M04-68186
ELECTROSLAG REMELTING OF EI481 CR-MN-NI HEAT RESISTANT STEEL 67-05 M04-69685
OPERATION OF AN ELECTRIC ARC FURNACE BY MEANS OF A PROCESS CONTROL COMPUTER 67-06 M04-70198
OPERATIONAL RESULTS OF MELTING SPECIAL STEELS IN THE MEDIUM FREQUENCY FURNACE WITH CRUCIBLES OF FUSED LIME 67-06 M04-71439
ON THE MELTING OF ALLOY STEELS IN THE BASIC OXYGEN LD FURNACE. PT. 2. THE PRODUCTION OF ALLOY STEELS IN A BASIC OXYGEN FURNACE 67-07 M04-72498
THE HYDROGEN CONTENTS OF LIQUID STEEL FROM THE ELECTRIC ARC FURNACE WHEN USING LUMP LIME, LIME FINES, AND SMALL-SIZE SOFT-BURNT LIME 67-07 M04-72711
ELECTROSLAG REMELTING OF CHROMIUM-MANGANESE-NICKEL HEAT-RESISTING EI481 STEEL 67-07 M04-74071
METALLURGICAL PROCESSES IN MELTING STEELS IN MULTICHAMBER ELECTRON BEAM FURNACES 67-11 M04-80203
INDUSTRIAL EXPERIENCES WITH A LARGE VACUUM ELECTRIC ARC FURNACE WITH SELFFEEDING ELECTRODES 67-11 M04-80205
THE INFLUENCE OF ALLOYING ELEMENTS ON THE O2 AND N2 CONTENTS OF STEEL, REMELTED IN A VACUUM ARC FURNACE 67-11 M04-80206
THE CURRENT POSITION OF THE DEVELOPMENT AND USE OF ELECTROSLAG REMELTING IN THE CZECHOSLOVAKIAN IRON AND STEEL WORKS 67-11 M04-80207
BEHAVIOR OF OXYGEN IN ELECTROSLAG REMELTING 67-11 M04-80208
THE INFLUENCE OF THE OXIDATION POTENTIAL OF THE GAS PHASE ON THE REMOVAL OF SULFUR AND NONMETALLIC INCLUSIONS IN THE ELECTROSLAG REMELTING OF STEEL 67-11 M04-80209
THE INFLUENCE OF ELECTROSLAG REMELTING ON THE QUALITY OF ROLLER BEARING STEEL 67-11 M04-80210
IMPROVING STEEL QUALITY THROUGH VACUUM ELECTRIC ARC MELTING AND THROUGH ELECTROSLAG REMELTING 67-11 M04-80211
CAST STRUCTURE AND HOMOGENEITY OF INGOTS REMELTED BY SPECIAL TECHNIQUES 67-11 M04-80213
LADLE-ALLOYING STEEL WITH TUNGSTEN 67-11 M04-81413
THE INFLUENCE OF REMELTING UNDER VACUUM ON THE PROPERTIES OF HOT WORKED STEELS 67-11 M17-80216
IMPROVEMENT IN QUALITY OF OPEN-HEARTH STEEL BY TREATMENT WITH ALLOYS OF RARE-EARTH METALS 67-12 M04-82401
USE OF EXOTHERMIC FERROALLOYS IN STEELMAKING 67-12 M04-82475
DESULFURIZING NONDEOXIDIZED SHKH15 STEEL BY TREATING IT WITH ELECTRIC SLAGS WHEN TAPPED TO THE LADLE 67-12 M04-83467

ALLOY STEELS, METAL FORMING
THE FEASIBILITY OF ROLL FORMING SPHERICAL BOTTOMS ON THICK-WALLED TUBULAR BILLETS 67-07 M08-73953

ALLOY STEELS, METAL WORKING
POWER PARAMETERS FOR ROLLING BILLETS 67-01 M07-57184
THE USE OF EXPLOSIVE ENERGY IN THE DEFORMATION AND WELDING OF METALS 67-01 M07-57990
METHOD OF STRENGTHENING STRUCTURAL ALLOY STEEL 67-01 M17-57129
THE IMPROVEMENT IN MECHANICAL PROPERTIES BY THERMO-MECHANICAL TREATMENT AND ITS APPLICATION TO TOOL MATERIALS 67-01 M17-57218
HIGH-ENERGY FORMING YIELDS HIGH SAVINGS 67-02 M07-61092
EXPLOSIVE WORKING OF METALS 67-02 M07-61104
HIGH-SPEED GRINDING HALVES MACHINING TIME 67-02 M08-61857
HOT FORGED GEARS TO FINE TOLERANCES 67-04 M07-66889
EXPLOSIVE FORMING AT PHILCO CORPORATION 67-05 M07-68981
THE HOT WORKABILITY OF STEEL IN THE TEMPERATURE RANGE OF THE AC1 POINT 67-05 M17-69322
SENDZIMIR HOT AND COLD MILLS AND THEIR OPERATION IN CONJUNCTION WITH CONTINUOUS CASTING 67-06 M07-70132
HIGH-VELOCITY FORMING BY PNEUMATIC-MECHANICAL MEANS 67-06 M07-70448
MANUFACTURE OF SEAMLESS STEEL PIPE AND TUBING 67-06 M07-72138
THE DEEP DRAW TESTING OF SHEET METAL 67-06 M08-71564
TOOLS MADE OF CRUCIBLE STEELS AND COMPARABLE GRADES

67-06 M20-72137
MANUFACTURE OF SEAMLESS TUBES IN A MODERN TUBE PUSH BENCH 67-07 M07-72909
PROPERTIES OF COMPACT BILLETS ROLLED ON THREE-HIGH STANDS FOR FURTHER TRANSVERSE-HELICAL ROLLING INTO ROUND PERIODIC SECTIONS 67-07 M07-74076
THERMOMECHANICAL TREATMENT FOR ISOTROPIC STRUCTURE 67-09 M08-76441
ZERO DEFECTS DOWN TO THE WIRE 67-10 M07-78570
RADIAL STRETCH FORMING ON EXPANDING MANDREL MACHINES 67-11 M08-80562

ALLOY STEELS, METALLOGRAPHY
ELECTROLYTIC ETCHING OF ALLOYED STEEL WELDINGS 67-01 M13-58398
LASER MICROPROBE HELPS IDENTIFY INCLUSIONS 67-03 M19-65981
AN ETCHING TECHNIQUE TO REVEAL STRAIN IN HIGH-STRENGTH STEEL 67-04 M13-66943
USE OF A HIGH-FREQUENCY SOURCE TO REVEAL THE METALLOGRAPHIC STRUCTURE OF AN ALLOY 67-12 M13-82507

ALLOY STEELS, MICROSTRUCTURE
INFLUENCE OF MICROSTRUCTURE ON THE STRENGTH AND TOUGHNESS OF LOW CARBON, HIGH STRENGTH ALLOY STEEL 67-01 M17-58608
STUDY OF GRAIN GROWTH IN MEDIUM CARBON STEELS DURING RAPID HEATING 67-04 M14-67139
THE MECHANISM OF FORMATION OF MACROSCOPIC INCLUSIONS PRODUCED BY AIR-OXIDATION OF MOLTEN STEEL 67-05 M04-69708
CONTRIBUTION TO MELTING AND SOLIDIFICATION OF SURFACES 67-05 M14-69420
THE ANALYSIS OF FRACTURE SURFACES BY ELECTRON MICROSCOPY 67-05 M17-69448
EFFECT OF PRIOR HEAT TREATMENTS ON AUSTENITE GRAIN SIZE AND ITS COARSENING BEHAVIOR IN ALUMINIUM-KILLED STEEL 67-06 M14-72073
SEPARATION OF CARBIDES BY DISSOLVING STEEL IN NITRIC ACID 67-10 M13-79059
CARBIDE PRECIPITATION IN WEAKLY-ALLOYED NI-CR-MO STEEL 67-10 M13-79586
MICROMETALLURGY OF AUSTENITIC GRAIN SIZE CONTROL OF STEEL. PT. 2. VARIATION OF ALN PRECIPITATION WITH ALUMINIUM 67-11 M14-80404
INFLUENCE OF RARE EARTH METALS ON THE GRAIN SIZE AND THE FINE STRUCTURE OF A STRUCTURAL STEEL 67-12 M13-82157

ALLOY STEELS, NONDESTRUCTIVE TESTING
ULTRASOUND HUNTS FOR WEAK SPOTS 67-02 M19-58972
ON THE CORRELATION BETWEEN COERCIVITY AND THE MECHANICAL PROPERTIES OF 40KHNMA --AISI 4340 TYPE-- STEEL 67-07 M19-72672
THE EDDY CURRENT METHOD USED FOR CONTROLLING THE EFFECTIVENESS WITH WHICH PRODUCTS MADE OF FERROMAGNETIC SUBSTANCE ARE HARDENED 67-10 M19-78381
RECENT DEVELOPMENTS IN THE USE OF ULTRASONIC EQUIPMENT FOR DIMENSIONAL EVALUATION OF DEFECTS 67-10 M19-78862

ALLOY STEELS, PHASE TRANSFORMATIONS
EFFECT OF CYANIDING ON THE KINETICS OF ISOTHERMAL DECOMPOSITION OF AUSTENITE IN 35HM STEEL 67-01 M14-57152
EFFECT OF MANGANESE AND SILICON ON TRANSFORMATION OF SUPERCOOLED AUSTENITE IN COBALT STEEL 67-01 M14-57188
PROBLEM OF GRADUAL TRANSFORMATION OF SUPERCOOLED AUSTENITE 67-01 M14-57637
COOLING TRANSFORMATION DIAGRAMS FOR AISI 1036 AND 10B36 67-02 M14-59462
DETERMINING THE LATENT HEAT OF MARTENSITIC TRANSFORMATION PRODUCED IN STEEL BY A MAGNETIC FIELD 67-02 M14-59934
STRUCTURAL TRANSFORMATIONS DURING HEATING OF STEEL 67-02 M14-60285
TRANSFORMATION PLASTICITY DURING THE TEMPERING OF MARTENSITE AND THE TRANSFORMATION OF AUSTENITE TO BAINITE IN A MEDIUM-ALLOY STEEL 67-04 M14-66986
TRANSFORMATION OF AUSTENITE DURING CONTINUOUS COOLING 67-04 M14-67615
DETERMINING THE LATENT HEAT OF THE MARTENSITIC TRANSFORMATION INDUCED BY A MAGNETIC FIELD IN STEEL 67-07 M14-72589
OBSERVATIONS MADE WITH CARBURIZATION AND IRREVERSIBLE TRANSFORMATION OF IRON-CHROMIUM-NICKEL-CARBON ALLOYS 67-07 M14-73289
EXOEMISSION IN GAMMA-TO-EPSILON AND EPSILON-TO-GAMMA TRANSFORMATIONS 67-08 M14-75263
HARDENING AND TEMPERATURE STABILITY OF STRUCTURAL CHANGES, CAUSED BY GAMMA-TO-EPSILON AND EPSILON-TO-GAMMA TRANSFORMATIONS IN FE-MN ALLOYS 67-08 M14-75264
THE CRYSTALLOGRAPHY OF THE PRESSURE INDUCED PHASE TRANSFORMATIONS IN IRON ALLOYS 67-11 M13-81594
TRANSFORMATIONS IN HEAT RESISTANT STEELS, AN ATTEMPT AT AN EQUILIBRIUM REPRESENTATION IN THE CARBIDE PHASES 67-11 M14-80334
STUDY OF MICROSEGREGATION IN EUTECTIC ALLOYS WITH AN FE-C BASE IN STABLE AND METASTABLE SYSTEMS 67-12 M14-82520
STUDY OF AUSTENITE FORMATION. THE CASE OF 15CDV6 STEEL 67-12 M14-83494

ALLOY STEELS, POWDER METALLURGY
WHATS NEW IN POWDER METALLURGY 67-02 M09-60249

ALLOY STEELS, PRESSURE VESSELS
THE COMING STEELS FOR NUCLEAR PRESSURE-VESSEL SERVICE 67-06 M20-71066

ALLOY STEELS, PUNCHING
A NEW DEVICE FOR PIERCING LARGE UPSET FORGINGS ON STEAM-HYDRAULIC PRESSES 67-01 M07-57249

ALLOY STEELS, QUALITY CONTROL
PRODUCTION AND QUALITY OF BASIC OXYGEN ALLOY STEELS 67-07 M04-73096

ALLOY STEELS, QUENCHING /COOLING/
DEVELOPMENT IN EQUIPMENT AND PRACTICES FOR QUENCHING STEEL PLATES 67-04 M10-67368

ALLOY STEELS, REACTIONS /CHEMICAL/
OXIDATION OF MOLTEN IRON ALLOYS WITH ATMOSPHERE 67-02 M04-59153
NONMETALLIC ELEMENTS DISSOLVED IN MOLTEN ALLOY STEELS 67-05 M04-68471

ALLOY STEELS, REFINING
THE ELECTROSLAG REFINING PROCESS 67-01 M04-57975
COMPARISON OF PREDEOXIDATION METHODS OF OPENHEARTH STEEL 67-01 M04-58134
NONMETALLIC INCLUSIONS AND PROCESSES OF ELIMINATION FROM MOLTEN STEEL 67-02 M04-60795
VACUUM DEGASSING IMPROVES STEEL FORGING QUALITY 67-03 M06-65117
KINETICS OF THE DEGASIFICATION OF MOLTEN STEEL IN A VACUUM 67-04 M04-67868
IMPROVING THE QUALITY OF STRUCTURAL STEELS BY INJECTING ARGON IN THE LADLE 67-04 M04-68187
USE OF 14KHGS OXYGEN-CONVERTER STEEL IN PRODUCTION OF ELECTRICALLY-WELDED PIPES 67-04 M04-68194
POTENTIAL OF ELECTROSLAG REFINING 67-06 M04-71580
VACUUM DEGASSING OF STAINLESS AND ALLOY STEELS 67-07 M04-72774
REFRACTORY EXPERIENCES IN CRUCIBLE STEEL COMPANYS DORTMUND-HORDER DEGASSING UNIT 67-07 M04-72776
SURFACE ACTIVITY IN ELECTROSLAG REMELTING 67-10 M04-78426
METALLURGICAL PHENOMENA TAKING PLACE DURING MELTING IN THE ELECTRON BEAM FURNACE, IN THE ELECTROSLAG MELTING INSTALLATION AND IN THE PLASMA FURNACE 67-10 M04-79182
VACUUM STEELMAKING 67-10 M04-79302
DISSOLUTION OF ALLOYING ELEMENTS IN ELECTROSLAG REMELTING 67-10 M04-79317
SYNTHETIC SLAG TREATMENT FOR 38KHMYUA STEEL 67-10 M04-79823
U. S. GAINS ON ELECTROSLAG MELTING 67-10 M04-79983
LADLE-TO-LADLE VACUUM STREAM DROPLET DEGASSING AT SHARON STEEL CORPORATION. PT. 3 67-11 M04-80905
PROTECTING STRUCTURAL STEELS FROM SECONDARY OXIDATION DURING TEEMING 67-11 M04-81009
ELECTROSLAG REMELTING AT ESC 67-12 M04-81952
THE REMELTING OF STEEL IN VACUA AND PROTECTIVE MEDIA 67-12 M04-83344
PHENOMENA OCCURRING DURING THE FORMATION OF PRIMARY DEOXIDATION PRODUCTS IN STEELS. PT. 2. DEOXIDATION OF UNALLOYED STEELS BY TITANIUM AND OF ALLOY STEELS BY ALUMINIUM 67-12 M04-83394
REMOVAL OF NON-METALLIC INCLUSIONS FROM METAL DURING ELECTROSLAG REMELTING 67-12 M04-83425

ALLOY STEELS, ROLLING
HOW ROLLING RATE AFFECTS BITE TORQUE ON A COLD 2800 MILL 67-01 M07-58171
RATIONALIZATION OF ROLLING AND DRAWING PROCESS DESIGNS ANALYSIS 67-01 M07-58576

ALLOY STEELS

RECENT BAR AND SECTION MILL EQUIPMENT
67-02 M07-60167
INFLUENCE OF METALLURGICAL FACTORS ON HOT STRIP MILL DESIGN 67-02 M07-60238
NEW TECHNIQUES IN METAL FORMING
67-03 M07-65166
RADICAL MILL INSURES FLATNESS IN LIGHTGAGE STRIP
67-03 M07-65435
TUBE INVESTMENTS LTD. THREE-ROLL PIERCER PROVES DESIGN AFTER EXTENSIVE TESTING
67-05 M07-69487
NEW TUBEMAKING TECHNIQUE--UK WORLD LEAD
67-06 M07-70021
WORKING PRIOR TO FINISH ROLLING
67-06 M07-71209
CONTROL OF A SINGLE STRAND COLD STRIP MILL
67-06 M07-72098
PRODUCTION OF BATCH ROLLED PROFILES
67-08 M07-76276
FEATURES OF THE MODERNIZED BAR AND ROD MILL FACILITIES AT COPPERWELD STEEL
67-09 M07-76669
PRODUCING EFFICIENTLY ROLLED PERIODIC SECTIONS
67-10 M07-79269

ALLOY STEELS, ROLLS
PRECISION CONTROL IN TEMPERING OF STEEL ROLLS AT MIDVALE-HEPPENSTALL CO 67-03 M10-65471

ALLOY STEELS, SHEET /METAL/
DEVELOPMENT TRENDS FOR THE USE OF STEEL SHEETS AND STEEL FOIL AS STRUCTURAL MATERIALS FOR SUPERSONIC AIRCRAFT AS SHOWN IN THE XB-70A OF NORTH AMERICAN AVIATION INC 67-01 M20-58113

ALLOY STEELS, SOLIDIFICATION
SOLIDIFICATION OF HIGHLY UNDERCOOLED CASTINGS
67-10 M14-79294

ALLOY STEELS, STEEL MAKING
ON THE MELTING TECHNIQUES OF THE HIGH-QUALITY SPECIAL STEEL SMELTING 67-01 M04-58243
PRODUCTION OF AL-KILLED STEEL FOR LOW TEMPERATURE USES IN CONVERTER 67-01 M04-58561
THE CURRENT PASSING IN THE WALLS OF CRYSTALLIZING PANS DURING MELTING UNDER A FLUX
67-02 M04-58891
VACUUM DEGASSING OF STEEL AT TIMKEN STEEL AND TUBE DIV 67-02 M06-60234
LADLE ADDITIONS OF ALLOYS 67-03 M04-65008
OPERATION OF THE KALDO ON THE NORTH AMERICAN CONTINENT 67-03 M04-65516
THE NEW ELECTRICAL STEEL-WORKS OF THE MARREL BROTHERS SOCIETY AT RIVE-DE-GIER
67-03 M06-65364
METHODS TO IMPROVE COMPOSITION CONTROL IN 200 TON B. O. S. VESSELS 67-04 M04-66110
OUTLINE OF THE BASIC OXYGEN LD-AC PLANT AND OPERATING RESULTS AT KAWASAKI, JAPAN, WORKS. PT. 1. --ON THE LD-AC PROCESS AT NIHON STEEL TUBE KAWASAKI WORKS-- 67-07 M04-72441
CHEMCIAL SEALING OF STEEL INGOTS
67-07 M04-73011

ALLOY STEELS, STRIP
ROUNDED-EDGE STRIP PRODUCTION BY ROLL FLATTENING WIRE 67-01 M07-58183

ALLOY STEELS, SURFACE FINISHING
USE OF ELECTROMACHINING OPERATIONS IN INDUSTRIAL PRODUCTION. PT. 2. APPLICATIONS
67-01 M08-58718
SUPERFINISHING PIECES MADE FROM ALLOY STEELS
67-01 M12-57333
HOT METAL SCARFING MACHINE INCORPORATED IN PRODUCTION LINE OF BLOOMING MILL
67-04 M07-66213
FAST WAY TO FINISH RING GEARS 67-05 M12-69580
TOROIDAL PATH MACHINE SPEEDS ABRASIVE FINISHING
67-08 M08-74461

ALLOY STEELS, SURFACE HARDENING
STEEL COMPOSITION REQUIREMENTS OF THE AUTOMOBILE INDUSTRY 67-09 M10-76417
STUDIES ON BORONIZATION OF STEEL SURFACES BY B4C-NAOCN 67-09 M10-78000

ALLOY STEELS, THERMAL PROPERTIES
THE THERMAL RESISTANCE OF STEELS AND PRACTICAL PROBLEMS OF HEATING AND COOLING THEM
67-05 M15-69442

ALLOY STEELS, THERMAL STABILITY
HEAT RESISTANCE OF MACHINE PARTS OF METALLURGICAL EQUIPMENT 67-05 M17-68370

ALLOY STEELS, TUBEMAKING
THREE-ROLL PIERCING IN TUBE MAKING
67-06 M07-72183

ALLOY STEELS, TUBING /METAL/
MANUFACTURE OF SEAMLESS TUBES IN A MODERN TUBE PUSH BENCH INSTALLATION 67-04 M07-66326

ALLOY STEELS, WEAR
MODELING THE WEAR TESTS OF GEARS
67-10 M17-79208

ALLOY STEELS, WELDED JOINTS
STRUCTURE AND PROPERTIES OF LOW-ALLOY STEEL PIPE WELDS 67-01 M14-57389
FATIGUE STRENGTH OF WELDED JOINTS AT LOW TEMPERATURE 67-02 M17-60663
ON THE PROBLEM OF THE VALUE OF IMPACT STRENGTH TESTING OF WELDS 67-05 M17-68744

ALLOY STEELS, WELDING
MAKING THE MOST OF HEAT TREATING EQUIPMENT
67-01 M10-58013
EFFECT OF INITIAL TEMPERATURE OF BASE METAL ON WELD JOINT PROPERTIES 67-01 M11-57388
TIME-TEMPERATURE DEFORMATIONS DURING ELECTROSLAG WELDING 67-01 M11-57390
AUTOMATIC WELDING OF KH5M-U STEEL PIPES
67-01 M11-57531
ON THE WELDING OF STEELS WITH LIMITED WELDABILITY. EXAMPLES FOR MATERIALS PROBLEMS
67-01 M11-58114
CARBON DISTRIBUTION IN WELD METAL IN SEMI-AUTOMATIC ELECTROSLAG WELDING 67-01 M11-58218
WELDING OF QUENCHED AND TEMPERED 9NI-4CO STEELS
67-01 M11-58777
WELDS AND CRACKS 67-01 M17-57220
THE MASH-LAP WELDING PROCESS 67-02 M11-59486
WELDED JOINTS BETWEEN FERRITIC AND AUSTENITIC STEELS 67-02 M11-59726
CERTAIN SPECIAL FEATURES OF THE WELDING OF MILD AND LOW-ALLOY STRUCTURAL STEELS AT LOW TEMPERATURES 67-02 M11-59791
SOME APPLICATIONS OF ELECTRON BEAM WELDING
67-02 M11-59813
A DEVICE FOR EXTERNAL AUTOMATIC SUBMERGED ARC WELDING OF LONGITUDINAL AND CIRCUMFERENTIAL SEAMS
67-02 M11-60134
WELDING OF LOW TEMPERATURE STEEL. PT. 2. SUBMERGED-ARC WELDING OF YND33 STEEL 67-02 M11-60169
WELDING TECHNOLOGY IN SHIP CONSTRUCTION. PT. 2. ONE-SIDE BUTT WELDING--EQUIPMENT, TOOLS AND TECHNOLOGY 67-02 M11-60983
WELDING IN THE CONSTRUCTION OF HIGH-PRESSURE VESSELS FOR REACTORS. PT. 2. STEELS FOR REACTOR BOILERS 67-02 M11-61056
WHERE DO WE STAND IN WELDING HIGH STRENGTH STEELS
67-02 M11-61098
AUTOMATIC WELDING OF TUBES MADE OF KH5M-U STEEL
67-02 M11-61150
POSSIBILITIES OFFERED BY TESTS ON SLICED SECTIONS TO STUDY THE WELDABILITY OF THICK STEEL PLATES
67-02 M17-59756
AUTOMATIC WELDING OF THICK SECTIONS
67-03 M11-65063
A NEW METHOD OF MECHANIZED WELDING OF REINFORCED FITTINGS 67-04 M11-66575
SEVERAL USES OF ELECTRON BEAM WELDING
67-04 M11-66882
A MULTI-ELECTRODE MACHINE FOR SPOT WELDING HATCH COVERS 67-04 M11-67361
AN APPARATUS FOR THE AUTOMATIC SUBMERGED ARC WELDING FROM OUTSIDE 67-04 M11-67674
EFFECT OF COMPLEX FERROALLOYS IN THE COATINGS OF ELECTRODES ON THE PROPERTIES OF BUILTUP METAL
67-04 M12-66814
NEW SOLID-STATE WELDING PROCESS
67-05 M11-68478
THE WELDABLE STEELS OF THE DIAMANT ROCKET. REMARKS ON THE WELDABILITY OF THESE STEELS
67-05 M11-69327
U. S. STEELS ERW PIPE MILL AT LORAIN IS IN PRODUCTION 67-05 M20-69489
UNDERBEAD AND TOE CRACKS 67-06 M11-70700
CONCERNING THE SELECTION OF ADDITIONAL HEATING PARAMETERS FOR WELDED THIN SHEET VL-1D STEEL
67-07 M11-72733
DECREASING THE RESIDUAL DEFORMATIONS DURING ARC WELDING OF THERMALLY STRENGTHENED STEELS
67-07 M11-72734
A NEW MECHANISED METHOD OF WELDING REINFORCEMENT
67-07 M11-73432
VERTICAL ARC WELDS MADE WITH CONSTRAINING MOULDS
67-07 M11-73434
EXPLOSIVE WELDING TODAY 67-07 M11-74259
THE EFFECTS OF COMPLEX FERROALLOYS IN ELECTRODE

COATINGS ON THE DEPOSITED METAL
67-08 M12-75918
ELECTROSLAG WELDING OF OIL REFINING MACHINERY
67-09 M11-76518
THE WELDING OF FINE-GRAINED STEELS
67-09 M11-76808
FATIGUE RESISTANCE OF WELDED LARGE-SIZE DIESEL CRANKSHAFTS 67-10 M11-78409
EFFECT OF THE INITIAL TEMPERATURE OF THE BASE METAL ON PROPERTIES OF THE WELDED JOINT
67-11 M11-80636
STUDY OF NITRIDES IN WELD METAL DURING OPEN ARC WELDING OF STEEL 67-11 M11-80637
FLUX COREDCO2 GAS SHIELDED WELDING WIRE
67-11 M11-81004
STRESS-RELIEF CRACKING IN CARBON AND LOW-ALLOY STEELS 67-11 M17-81003
THE FEASIBILITY OF ULTRASONIC INSPECTION OF CONTACT WELDED JOINTS IN BOILER PIPES
67-11 M19-80559
LARGE TURBINE ROTORS FABRICATED BY WELDING
67-12 M11-81821
SECONDARY HEATING IN THE WELDING OF VL-1D STEEL
67-12 M11-82312
REDUCTION OF RESIDUAL DEFORMATIONS WHEN WELDING HARDENABLE STEELS 67-12 M11-82313
THE USE OF IN SITU THERMAL ANALYSIS FOR STUDIES OF TRANSFORMATIONS IN STEELS DURING WELDING
67-12 M14-83497

ALLOY STEELS, WIRE DRAWING
PRODUCTION OF WIRE OF SV-08G2S AND SU-08GS STEEL
67-04 M07-66220

ALLOY STEELS, X RAY ANALYSIS
EXPERIENCE WITH AN AUTOMATIC X-RAY FLUORESCENCE INSTRUMENT INSTALLED AT AN ALLOY STEEL PLANT
67-07 M19-73022

ALLOYING
CAST IRONS WITH TIN ADDITIONS 67-01 M01-57521
FORMATION OF CHROMIUM-ALLOYED LAYERS ON CASTINGS
67-02 M06-61225
EXPLORATORY EXPERIMENT ON FEASIBILITY OF MAKING A TI-MG ALLOY UNDER HIGH PRESSURE
67-02 M13-59442
A METHOD OF PRODUCING HETEROJUNCTIONS BETWEEN COMPOUND SEMICONDUCTORS BY ALLOYING AND SUBSTITUTION REACTION 67-02 M16-59075
LADLE ADDITIONS OF ALLOYS 67-03 M04-65008
ELECTRON CONCENTRATION AND METALLIC PROPERTIES
67-03 M17-65339
ALLOY COMPOSITIONS OF HFB2 WITH URANIUM AND TRANSITION METAL BORIDES 67-04 M14-67453
SYNTHESIS AND ALLOYING OF LEAD TELLURIDE
67-04 M16-66029
INFLUENCE OF MOLYBDENUM ON THE STRUCTURE AND PROPERTIES OF A CARBIDE-BEARING AUSTENITIC STEEL
67-04 M17-67023
INFLUENCE OF RARE EARTH ELEMENTS ON THE CRYSTALLIZATION OF CARBON STEEL
67-05 M13-68378
INFLUENCE OF SMALL AMOUNTS OF NIOBIUM ON THE MECHANICAL PROPERTIES OF 25G2 STEEL
67-05 M17-68385
PRECIOUS METALS--GLAMOUR PUTS ON A HARD HAT
67-06 M01-70485
EFFECT OF RARE-EARTH ELEMENTS ON THE PROPERTIES OF MEDIUM-CARBON STEEL 67-06 M04-70181
FOUNDATIONS OF IRON AND STEEL METALLURGY
67-06 M04-70699
ALLOY FOR DEOXIDIZING AND ALLOYING
67-06 M04-70730
EFFICIENT DEOXIDIZING AND ALLOYING CHROME STEEL
67-06 M04-70903
DUCTILE IRON--A PERIOD OF ADJUSTMENT
67-06 M06-71050
OHMIC CONTACTS TO GAAS BY A SIMPLE LOW TEMPERATURE ALLOYING PROCESS 67-06 M16-72179
STUDY OF APPLICATION OF CERIUM-LANTHANUM MISCH METAL IN PRODUCTION OF STAINLESS STEELS
67-07 M04-73120
THE MAGNESIUM INJECTION PROCESS FOR DUCTILE IRON
67-07 M06-73079
HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT OF STEEL 55S2 --AISI 9255-- ADDITIONALLY ALLOYED WITH CARBIDE-FORMING ELEMENTS
67-07 M10-73005
METAL-SEMICONDUCTOR CONTACTS FOR GAAS BULK EFFECT DEVICES 67-07 M16-73180
ALLOYING TYPE KH25N20S2 HIGH-TEMPERATURE CORROSION RESISTANT AUSTENITIC STEELS WITH 0.2-0.7 PER CENT BORON 67-08 M01-75022
MILD STEEL WITH NIOBIUM ADDED 67-08 M17-75735
INFLUENCES OF THE ADDITIONAL ELEMENTS ON SOME PROPERTIES OF HIGH-ZIRCONIUM CU ZR ALLOYS
67-09 M01-77249
PRODUCTION OF NITROGEN ALLOYED STEELS
67-09 M01-77824
PRINCIPLES OF ALLOYING HEAT RESISTANT CONDUCTING COPPER AND ALUMINUM ALLOYS 67-09 M03-77126
EFFECT OF MICROALLOYING WITH RARE METALS ON STABILITY OF THERMOMECHANICAL HARDENING OF STEEL
67-09 M04-76552
DEVELOPMENT TRENDS IN HIGH STRENGTH, WELDABLE STRUCTURAL STEELS ALLOYED WITH NB, V, N, TI, ZR AND OTHER ELEMENTS 67-09 M04-77583
THE METALLIC ETCHING OF INDIUM ANTIMONIDE AND GERMANIUM 67-09 M13-76631
STRENGTH AND TOUGHNESS OF CAST STEEL
67-09 M17-78076
CONTRIBUTION ON THE USE OF CERIUM-LANTHANUM MISCH METAL IN THE PRODUCTION OF SPECIAL STEELS
67-10 M04-79675
EFFECTS OF RARE EARTH METALS ON THE QUALITY OF STRUCTURAL STEEL 67-10 M17-78375
FERROMANGANESE HANDLING AND FEEDING
67-11 M04-80112
USE OF EXOTHERMIC FERROALLOYS IN STEELMAKING
67-12 M04-82475
ALLOYING 5KHNV STEEL OUTSIDE THE FURNACE
67-12 M04-82491
PROTECTIVE MICROALLOYING OF ALUMINUM BRONZE
67-12 M06-82618
EFFECT OF ALLOYING ON THE ELECTROCONDUCTIVITY OF CERIUM SULFIDE 67-12 M16-82688

ALLOYING EFFECTS
WHERE SOVIET SUPERALLOYS STAND 67-06 M01-70721
INFLUENCE OF ALLOYING ELEMENTS ON RESIDUAL CONTENT OF NITROGEN IN OPEN ARC WELDED METAL
67-06 M11-72303
THE ROLE OF PALLADIUM IN ENHANCING CORROSION RESISTANCE OF TITANIUM 67-07 M18-72543

ALLOYING ELEMENTS
ON THE CLASSIFICATION OF ALLOYING ELEMENTS DURING FORMATION OF TITANIUM-BASE ALLOYS
67-02 M14-60547
THE OXIDIZING PROCESSES TAKING PLACE DURING ELECTROSLAG REMELTING 67-04 M04-67875
SOME PROBLEMS ON THE TURNING OF ALUMINUM CAST ALLOY
67-04 M08-67120
PRECIPITATION IN AUSTENITIC STAINLESS STEELS CONTAINING TANTALUM 67-04 M10-67194
THE COMPARATIVE WELDABILITY OF REFRACTORY METAL ALLOYS 67-04 M11-67033
DEVELOPMENT OF 170/200 KSI YIELD STRENGTH NI-CR-MO-CO WELD METALS FOR CONSTRUCTIONAL STEELS
67-04 M11-67034
HIGH-STRENGTH WELDABLE STRUCTURAL STEELS AND THEIR PROPERTIES 67-04 M17-66906
EFFECT OF NITROGEN AND MANGANESE ON RECOVERY RATE AND FRICTION STRESS DURING CREEP OF IRON
67-04 M17-66995
NIOBIUM CARBIDE PRECIPITATION IN STEEL
67-04 M17-67196

ALLOYING ELEMENTS, DIFFUSION
DETERMINATION OF THE DISTRIBUTION OF ALLOYING COMPONENTS BY MACROAUTORADIOGRAPHY
67-10 M14-78655

ALLOYING ELEMENTS, EVAPORATION
EVAPORATION OF MANGANESE, COPPER AND TIN FROM MOLTEN IRON UNDER VACUUM 67-08 M15-74425

ALLOYING ELEMENTS, REACTIONS /CHEMICAL/
NONMETALLIC ELEMENTS DISSOLVED IN MOLTEN ALLOY STEELS 67-05 M04-68471

ALODINE PROCESS
SEE CHROMATING

ALPHA ANNEALING
SEE ANNEALING

ALPHA BETA PHASE
SEE ALPHA PHASE
BETA PHASE

ALPHA GAMMA PHASE
SEE ALPHA PHASE
GAMMA PHASE

ALPHA IRON, DIFFUSION
DIFFUSIVITY AND SOLUBILITY LIMIT OF COPPER IN ALPHA AND GAMMA IRON 67-04 M14-67267

ALPHA IRON, MECHANICAL PROPERTIES
CLEAVAGE FRACTURE OF ALPHA-IRON SINGLE CRYSTALS IN COMBINED TENSION AND TORSION 67-01 M17-57406

ALPHA IRON
ON THE RELAXATION STRENGTH OF THE SNOEK PEAK 67-04 M17-66533
A DEFORMATION TWIN KINKED AT AN ANGLE OF 120 DEGREES OBSERVED IN ALPHA-IRON 67-04 M17-67485
INTERACTION BETWEEN DISLOCATIONS AND H ATOMS IN ALPHA-FE 67-05 M17-69467
ALPHA PHASE
SEE ALSO ALPHA PRIME PHASE
REINVESTIGATION OF THE TITANIUM-RICH REGION OF THE TITANIUM-ALUMINUM EQUILIBRIUM DIAGRAM 67-02 M14-61776
TH-THC PHASE DIAGRAM 67-04 M13-66274
STRUCTURES AND STRENGTH OF AUSFORMED STEEL 67-06 M13-71085
POSITION OF THE TEMPERATURE RANGE OF THE SIGMA PHASE IN FERRITIC CHROMIUM STEELS 67-07 M13-72676
SUPERCONDUCTIVE PROPERTIES 67-07 M16-73689
EFFECT OF CHROMIUM AND NICKEL ON ALPHA-PHASE FORMATION IN STRAINING AUSTENITIC STEELS 67-08 M14-75883
THE TEMPERATURE OF DISPLACEMENT GAMMA-TO-ALPHA TRANSFORMATION IN IRON 67-11 M13-80741
STUDY OF ELONGATION VARIATIONS OF ALPHA PLUTONIUM BY SELF-IRRADIATION AT 4 K 67-11 M14-80606
RADIOCRYSTALLOGRAPHIC ANALYSIS OF LOW- AND HIGH-TEMPERATURE FORMS OF RB2SO4 67-12 M13-82694
ALPHA PHASE, STRESS EFFECTS
DIMENSIONAL CHANGES IN THE ALPHA-GAMMA TRANSFORMATION OF IRON 67-04 M15-67413
A STUDY OF PLASTIC DEFORMATION OF A DISCONTINUOUS SAMPLE 67-04 M17-68084
ALPHA PRIME PHASE, ALLOYING EFFECTS
ELECTRON MICROSCOPIC STRUCTURES OF IRON-MANGANESE ALLOYS 67-02 M13-59113
ALPHA TRANSFORMATION
SEE GAMMA TRANSFORMATION
ALPHATIZING
SEE ANNEALING
ALTERNATING CURRENT
ALTERNATING CURRENT AND ALUMINUM--TESTS DETERMINE EFFECT OF A-C ON ALUMINUM CONDUCTORS 67-05 M18-68795
NONSINUSOIDAL CURRENT OSCILLATIONS IN N-TYPE SILICON COMPENSATED WITH ZINC 67-06 M16-71767
ELECTROLYTIC A-C CORROSION OF POLYELECTRODE SYSTEMS 67-08 M18-74623
ELECTROLYTIC A-C CORROSION OF IRON 67-08 M18-74624
EFFECT OF ASYMMETRIC ALTERNATING CURRENT ON THE LEVELING OF NICKEL DEPOSITS DURING ELECTROLYSIS 67-11 M12-81286
ALTERNATORS, MECHANICAL PROPERTIES
DEFORMATION OF THE ROTOR WINDING OF A TURBO ALTERNATOR. AN EXTREME EXAMPLE OF COPPER SHORTENING 67-08 M17-74501
ALUMINA
SEE ALSO ALUMINUM OXIDE
ALUMINA, CHEMICAL ANALYSIS
SPECTRAL METHOD OF ANALYSIS OF ALUMINA 67-04 M19-67123
ALUMINA, POWDER METALLURGY
HOT PRESSING OF ALUMINA--A NEW TREATMENT OF FINAL DENSIFICATION 67-07 M09-73623
ALUMINA, REACTIONS /CHEMICAL/
REACTION OF ALUMINA WITH CESIUM VAPOR 67-04 M18-66138
ALUMINATES, CARBONATION
METHOD TO CONTROL THE DEGREE OF CARBONATION OF ALUMINATE SOLUTIONS 67-05 M03-69245
ALUMINATES, CHEMICAL ANALYSIS
ANALYSIS OF SODIUM ALUMINATE SOLUTIONS BY PHOTOMETRIC TITRATION 67-09 M19-77031
ALUMINATES, DECOMPOSITION
FORMATION AND ROLE OF BAYERITE IN THE DECOMPOSITION OF ALUMINATE SOLUTIONS 67-12 M03-83091
ALUMINATES, EXTRACTION
ON THE KINETICS OF CRYSTALLIZATION OF SODIUM ALUMINATE 67-10 M14-80057
ALUMINATES, PHASES /STATE OF MATTER/
PREPARATION AND PROPERTIES OF RARE-EARTH SILICATES AND ALUMINATES 67-08 M14-75999
SODIUM ALUMINATES 67-09 M13-77068
THE COMPOSITION OF SOLID PHASES IN THE SYSTEM NA2O-AL2O3-H2O 67-10 M13-80061
ALUMINATES, REACTIONS /CHEMICAL/
EFFECT OF SEED CHARGE RATIO ON THE DECOMPOSITION OF ALUMINATE SOLUTIONS 67-02 M03-61280
ON THE SOLUBILITY OF SODIUM-CALCIUM HYDROSILICATE IN ALKALIS AND ALUMINATE SOLUTIONS 67-08 M14-75018
KINETICS OF THE REACTION OF STABLE SODIUM HYDROALUMINOSILICATE WITH ALKALI AND HIGH-MODULE ALUMINATE SOLUTIONS 67-09 M14-77072
REACTION KINETICS IN THE SYSTEM K2O-NA2O-AL2O3-SIO2-H2O 67-10 M14-80058
REACTION KINETICS IN THE SYSTEM NA2O-AL2O3-SIO2-H2O 67-10 M14-80060
ALUMINATES, REDUCTION /CHEMICAL/
WASHING RED MUD FROM ALUMINATE SOLUTIONS 67-07 M02-73414
PHYSICOCHEMICAL CHARACTERISTICS OF THE THERMAL REDUCTION OF ALKALI ALUMINATES 67-08 M03-75019
ALUMINATES, REFINING
THE USE OF GRAY MUD AS A DESILICATION ADDITION 67-08 M03-76240
CARBOTHERMAL REDUCTION OF SODIUM AND POTASSIUM ALUMINATES AT NORMAL PRESSURE 67-09 M03-77045
MATHEMATICAL MODELING OF THE PROCESS OF DECOMPOSITION OF ALUMINATE SOLUTIONS 67-09 M03-77113
ALUMINATES, SOLUBILITY
ON THE SOLUBILITY OF VANADIUM PENTOXIDE IN ALUMINATE SOLUTIONS 67-10 M14-80059
ALUMINATES, THERMAL PROPERTIES
RELATIVE ENTHALPY OF BERYLLIUM 1..1-ALUMINATE, BEO . AL2O3, FROM 273 TO 1173 K. THERMODYNAMIC PROPERTIES FROM 273 TO 2150 K 67-08 M15-75666
RELATIVE ENTHALPY OF BERYLLIUM 1..3-ALUMINATE, BEO . 3AL2O3, FROM 273 TO 1173 K. THERMODYNAMIC PROPERTIES FROM 273 TO 2150 K 67-08 M15-75667
ALUMINIZING
SEE ALUMINUM PLATING
ALUMINOTHERMIC REACTIONS
METALLOTHERMAL PRODUCTION OF ALLOYS WITH A HIGH CONTENT OF ALUMINUM 67-02 M03-59550
PRODUCING ALKALI METALS AND ALUMINUM OXIDE BY ALUMOTHERMIC REDUCTION OF ALUMINATES 67-02 M03-61717
ALUMINOTHERMAL REDUCTION OF TITANIUM OXIDES 67-02 M03-61721
THERMAL CALCULATION RELATED TO ALUMINOTHERMAL MELTING OF FERROSILICOZIRCONIUM 67-02 M04-60094
INDUSTRIAL INTRODUCTION OF ALUMINOTHERMAL PRODUCTION OF SILICOZIRCONIUM 67-02 M04-60095
PRODUCTION OF FERRONIOBIUM 67-02 M04-61958
ALUMINOTHERMAL REDUCTION OF TITANIUM OXIDES 67-04 M03-66819
PRODUCTION OF FERRONIOBIUM 67-04 M04-67776
ALUMINOTHERMITE REINFORCING WELDING--A NEW HIGH-PRODUCTION RATE PROCESS 67-04 M11-67796
AN EVALUATION OF EXOTHERMIC HOT TOPS 67-05 M04-69065
EFFECT OF SOME FACTORS ON THE ALUMINOTHERMAL PROCESS OF PREPARING ALB12 COMPOUNDS 67-09 M03-76852
ALUMINO-THERMIC WELDING OF REINFORCING BARS 67-11 M11-80351
METALLOTHERMIC REDUCTION OF OXIDES IN WATER-COOLED COPPER FURNACES 67-12 M03-82743
IMPURITIES IN ALUMINOTHERMIC CHROMIUM AND PURIFICATION OF THIS MATERIAL BY FUSED SALT ELECTROLYSIS 67-12 M03-83221
ALUMINOUS REFRACTORIES
STRUCTURAL AND MORPHOLOGICAL METAMORPHISM OF SILICA AND SILICA-ALUMINA REFRACTORIES USED IN METALLURGY 67-07 M04-73209
ALUMINOUS REFRACTORIES, MICROSTRUCTURE
ROLE OF TITANIA IN BAUXITE REFRACTORIES 67-07 M04-73622
ALUMINOUS REFRACTORIES, REACTIONS /CHEMICAL/
STABILITY OF REFRACTORIES DURING VACUUM DEOXIDATION OF STEEL 67-03 M04-65357
HOW THE MELTING FURNACE LINING AFFECTS THE SILICON CONTENT OF ALUMINUM ALLOYS 67-04 M14-67935
ALUMINUM
ROD, BAR AND WIRE PRODUCT INFORMATION 67-02 M01-60101

THE USE OF AL AND AL ALLOYS IN CHEMICAL APPARATUS AND THE CHEMICAL INDUSTRY 67-02 M20-59416
REFRACTORY METALS--PROTECTION BY ALUMINIUM-TIN COATINGS 67-03 M12-65165
ALUMINUM. V. 1. PROPERTIES, PHYSICAL METALLURGY AND PHASE DIAGRAMS. V. 2. DESIGN AND APPLICATIONS. V. 3. FABRICATION AND FINISHING 67-08 M01-74801
RESEARCH INTO THE DENSITY OF DEFORMED METALS AND ALLOYS 67-08 M17-75441
ALUMINUM FOR LOAD-BEARING CONSTRUCTION IN ENGINEERING CONSTRUCTION. PT. 1 67-10 M01-79971
METALLURGY OF ALUMINUM ALLOYS 67-11 M01-81077
ALCOA ALUMINUM HANDBOOK 67-12 M01-82985
FORMATION AND ROLE OF BAYERITE IN THE DECOMPOSITION OF ALUMINATE SOLUTIONS 67-12 M03-83091

ALUMINUM, ACOUSTIC PROPERTIES
TWO CASES OF SHOCK-WAVE PROPAGATION IN A METAL 67-04 M15-68011
HELICONS AND ACOUSTIC SHEAR WAVES IN AL 67-08 M16-75831

ALUMINUM, ALLOYING ADDITIVE
ON THE MELTING TECHNIQUES OF THE HIGH-QUALITY SPECIAL STEEL SMELTING 67-01 M04-58243
PRODUCTION OF BERYLLIUM ALLOYS 67-02 M03-61590
EFFECT OF ALUMINIUM ON THE STABILITY OF THE BETA-PHASE IN TI-MO-MN ALLOYS 67-02 M14-60291
HEAT RESISTANT STEEL WHICH IS NOT ALLOYED WITH CHROMIUM AND NICKEL 67-02 M17-58867
EFFECT OF SMALL ADDITIONS OF ALUMINUM ON THE MICROSTRUCTURE OF URANIUM-MOLYBDENUM ALLOYS 67-04. M13-67161
THE INFLUENCE OF ALUMINIUM AND IRON ADDITIONS ON COPPER-MANGANESE-ZINC ALLOYS 67-05 M01-68496
VACANCY-DISLOCATION INTERACTIONS IN A BETA BRASS CONTAINING 4 PER CENT ALUMINUM 67-05 M13-69464
HARDENING BY ORDERED PRECIPITATES 67-05 M14-69471
EFFECT OF THE CONCENTRATION OF ALUMINUM ON THE STRENGTH PROPERTIES OF ALUMINUM BRONZES 67-05 M17-69269
A MECHANICAL PROPERTY EVALUATION OF BE-38 PER CENT AL ALLOY FROM -320 TO 800 F 67-05 M17-69449
GROWTH AND PREFERRED ORIENTATIONS OF LARGE ELONGATED GRAINS IN DOPED TUNGSTEN SHEET 67-06 M13-69949
SIGMA FORMATION IN NICKEL-RICH NICKEL-COBALT-CHROMIUM-ALUMINUM-TITANIUM-CARBON ALLOYS AT 1650 F 67-06 M14-69932
EFFECT OF ALUMINUM ON STRUCTURE AND PROPERTIES OF MAGNETIC ALLOYS 67-06 M15-70289
EFFECTS OF ADDING VANADIUM, NITROGEN AND ALUMINUM TO QUENCHED AND TEMPERED CHROMIUM AND MANGANESE STRUCTURAL STEELS ON THEIR PROPERTIES 67-06 M17-70119
EFFECT OF ALUMINUM ON THE CHANGE IN HARDNESS OF CALCIUM BABBIT 67-06 M17-70171
PRECIPITATION-HARDENING BEHAVIOR AND MECHANICAL PROPERTIES OF HEAT-RESISTING ALLOYS CONTAINING UP TO 35 PER CENT COBALT 67-06 M17-70599
INTERNAL FRICTION AND CREEP OF AN ALUMINUM-ZINC EUTECTOID ALLOY 67-06 M17-71132
THE SCALING OF BINARY ALLOYS OF TITANIUM CONTAINING 5 WT. PER CENT OF ALUMINIUM, COPPER, OR COBALT IN CARBON DIOXIDE AT 1000 C 67-06 M18-70794
THE SOLUBILITY OF AU IN AL AND THE PRECIPITATION HARDENING OF AL-AU ALLOYS 67-07 M10-73848
EFFECT OF ALUMINUM ON THE SATURATION MOMENTS OF FE-NI ALLOYS 67-07 M15-73548
CHANGE OF MAGNETIC PROPERTIES OF DILUTE GOLD-CHROMIUM ALLOYS BY SUBSTITUTIONS OF TIN, ALUMINUM, AND COPPER FOR GOLD 67-07 M15-73560
DETERMINATION OF ALUMINUM AND ITS STATES OF COMBINATION IN PLAIN CARBON STEELS 67-07 M19-72898
DEOXIDATION OF LIQUID STEEL WITH ALUMINUM AND ELIMINATION OF THE RESULTING ALUMINA 67-08 M04-75313
THE KINETICS OF ALUMINUM DEOXIDATION OF STEEL 67-08 M04-75314
ADDITIONS OF ALUMINUM FOR DEOXIDATION OF STEEL 67-08 M04-75539
MECHANISM OF THE INFLUENCE OF DIFFERENT ELEMENTS ON THE GRAPHITIZATION OF CAST IRON 67-08 M14-74545
COMBINED ACTION OF SURFACE-ACTIVE AGENTS ON THE NUMBER OF GRAPHITIZATION NUCLEI IN CUPOLA MELTED MALLEABLE IRON 67-08 M14-74546
EFFECTS OF ALUMINIUM NITRIDE ON THE PROPERTIES OF STEEL 67-08 M14-74736
RECRYSTALLIZATION OF IRON-ALUMINUM ALLOYS 67-08 M14-74992
THE EFFECT OF ALUMINUM ON THE PRECIPITATION OF CARBON IN ALPHA IRON 67-08 M14-75664
NITROGEN SOLUBILITY AND NITRIDE FORMATION IN LIQUID NI-TI-AL ALLOYS 67-08 M14-75871
SINGULARITIES OF BAINITIC TRANSFORMATION OF AUSTENITE IN CAST IRONS ALLOYED WITH ALUMINUM 67-08 M14-76034
INFLUENCE OF BORON AND ALUMINIUM ON THE GRAPHITISATION OF MALLEABLE CAST IRON 67-08 M14-76089
THE NATURE OF THE K-STATE IN THE SYSTEM OF IRON AND ALUMINIUM 67-08 M15-74405
MOSSBAUER EFFECT IN IRON-ALUMINIUM ALLOYS. PT. 1 67-08 M15-75226
MOSSBAUER EFFECT IN IRON-ALUMINIUM ALLOYS PT. 2 67-08 M15-75227
THE DELETERIOUS EFFECT OF SMALL QUANTITIES OF ALUMINUM ON THE STRESS-RUPTURE PROPERTIES OF A CR-MO-V STEEL 67-08 M17-75971
OXIDATION RESISTANCE OF TI-AL ALLOYS 67-08 M18-75899
ALUMINUM IN THE PRODUCTION OF COLD ROLLED TRANSFORMER STEEL 67-09 M04-77639
STABILIZATION OF QUENCHING TETRAHEDRA OF STACKING FAULTS IN COPPER BY MEANS OF ALUMINUM IMPURITY 67-09 M13-76786
EFFECTS OF ALUMINIUM NITRIDE ON THE PROPERTIES OF STEEL 67-09 M14-77379
INFLUENCE OF LITHIUM ON MECHANICAL PROPERTIES OF ARMCO IRON 67-09 M17-76427
EFFECT OF ALUMINUM ON THE DAMPING CURVE AND SOLUBILITY OF CARBON IN ALPHA-IRON 67-09 M17-77192
CONSTITUTION, TTT CHARACTERISTICS AND HARDENABILITY OF A 0.3 PER CENT STEEL WITH AL ADDITIONS UP TO 2.45 PER CENT 67-10 M13-78334
GRAIN-COARSENING OF AUSTENITE 67-10 M14-78333
HARDENING MECHANISMS IN A PRECIPITATION HARDENABLE NICKEL-12.71 AT. PER CENT ALUMINIUM ALLOY 67-10 M14-78911
ALUMINIUM IN PRODUCTION OF COLD-ROLLED TRANSFORMER STEEL 67-11 M04-80927
THE FORMATION OF PRIMARY DEOXIDATION PRODUCTS IN STEEL. PT. 1. THE DEOXIDATION OF UNALLOYED STEELS WITH AL 67-11 M04-81374
DIRECT OBSERVATION OF THE STACKING ORDER IN BETA1 PRIME CU-AL MARTENSITE 67-11 M13-81270
MICROMETALLURGY OF AUSTENITIC GRAIN SIZE CONTROL OF STEEL. PT. 2. VARIATION OF ALN PRECIPITATION WITH ALUMINIUM 67-11 M14-80404
THE ORDERING TRANSFORMATION IN TITANIUM-ALUMINUM ALLOYS CONTAINING UP TO 25 AT. PER CENT ALUMINUM 67-11 M14-81343
APPLICATION OF SPECIAL ALLOY CAST IRON CONTAINING AL IN ITALY 67-11 M17-80802
KINETICS OF THE FORMATION OF ALUMINA INCLUSIONS DURING DEOXIDATION OF LIQUID IRON WITH ALUMINUM 67-12 M04-83395
TECHNOLOGICALLY IMPROVED DEOXIDATION OF RAIL STEEL WITH ALUMINUM 67-12 M04-83413
EFFECT OF THE ROLL TEMPERATURE ON THE SPECIFIC PRESSURE DURING ROLLING OF IRON-ALUMINIUM ALLOYS 67-12 M07-82409
PRESSURE SHAPING OF IRON-ALUMINUM ALLOYS 67-12 M07-83329
EFFECT OF THE DEGREE OF DEFORMATION ON SPECIFIC PRESSURE IN WARM ROLLING OF IRON-ALUMINUM ALLOYS 67-12 M07-83330
INVESTIGATION OF THE EFFECT OF THE ROLLING SPEED ON THE PRESSURE DURING HEATED ROLLING OF IRON-ALUMINUM ALLOYS 67-12 M07-83335
THE EFFECT OF ALUMINUM ADDITIONS TO CR-FE COATINGS ON THE PROPERTIES OF THE DIFFUSION COATINGS 67-12 M12-82854
THE STRUCTURE OF THE ALUMINIUM-CADMIUM-TIN EUTECTIC 67-12 M13-81774
EVOLUTION OF THE ANTIPHASE STRUCTURE OF IRON-ALUMINUM ALLOYS AS A FUNCTION OF THEIR ALUMINUM CONTENT 67-12 M13-82447
THERMODYNAMIC PROPERTIES AND EQUILIBRIUM PHASE DIAGRAMS IN THE AL-PB AND AL-CD SYSTEMS 67-12 M15-82595

ALUMINUM

CONTRIBUTION TO THE DISPERSION-HARDENING OF AG
67-12 M17-82666
PLASTIC DEFORMATION OF SINGLE-CRYSTAL NIAL
67-12 M17-82755
OXIDATION MECHANISMS FOR NI-AL ALLOYS AT TEMPERATURES BETWEEN 900 AND 1300 C
67-12 M18-82742

ALUMINUM, ALLOYING EFFECTS
THE EFFECT OF ALUMINUM ON THE STRESS-INDUCED DIFFUSION OF CARBON ATOMS IN ALPHA IRON
67-02 M14-60158
AGING OF NONANNEALED AND HOT DEFORMED CAST CARBON STEEL 67-09 M10-77408

ALUMINUM, ANODES
ALUMINIUM AS SACRIFICIAL ANODE FOR CATHODIC PROTECTION. PT. 3. BEHAVIOUR IN ENVIRONMENT BASED ON CALCIUM HYDROXIDE 67-01 M18-58733

ALUMINUM, ATOMIC PROPERTIES
SINGLE CRYSTAL MEASUREMENT OF THE ATOMIC SCATTERING FACTOR OF ALUMINIUM 67-06 M16-71278
COMMENTS ON PAPERS RESULTING FROM HUME-ROTHERYS NOTE-1965 67-06 M16-71970
LATTICE DYNAMICS OF ALUMINUM 67-07 M16-74016
SCATTERING FACTORS FOR ALUMINUM IN THE SLATER APPROXIMATION 67-08 M16-76138
MORSE-POTENTIAL EVALUATION OF SECOND- AND THIRD-ORDER ELASTIC CONSTANTS OF SOME CUBIC METALS
67-09 M16-77156
ABSORPTION AND THE ATOMIC SCATTERING OF ELECTRONS IN ALUMINUM AND NACL 67-11 M16-80181
COMPARISON OF THE ATOMIC DISTRIBUTION FUNCTIONS OF LIQUID AND SOLID METALS 67-12 M16-83005

ALUMINUM, ATOMIC STRUCTURE
EVALUATION OF THE ONE-ELECTRON POTENTIAL FOR AL CRYSTALS 67-07 M16-72964
SELF-CONSISTENT BAND STRUCTURE OF ALUMINUM BY AN AUGMENTED-PLANE-WAVE METHOD 67-11 M16-81394

ALUMINUM, ATOMIZING
THE MECHANISM OF BREAKING THE LIQUID METAL STREAM BY A GAS JET 67-08 M09-75423

ALUMINUM, BAND THEORY
SOFT X-RAY ABSORPTION SPECTRA OF METALS AND ALLOYS. PT. 1. BE, AL, SB, BI AND AL-MG ALLOYS
67-04 M16-67473

ALUMINUM, BEARINGS
THE RELATIONSHIP BETWEEN BASIC MODES OF WEAR AND EXPERIENCE IN ENGINEERING PRACTICE
67-04 M17-66292

ALUMINUM, BICRYSTALS
GRAIN BOUNDARY SLIDING IN HIGH-PURITY ALUMINIUM BICRYSTALS DURING THE SHEAR TEST UNDER CONSTANT LOAD AND TEMPERATURE 67-01 M17-58322
SLIP BAND CONTINUITY ACROSS GRAIN BOUNDARIES IN ALUMINUM 67-04 M13-66053

ALUMINUM, BIMETALS
INVESTIGATION OF NONSTATIONARY THERMAL FIELDS IN ALUMINUM-STEEL BIMETAL 67-01 M11-58268
MANUFACTURE OF STEEL-ALUMINUM WIRE BY THE POWDER METALLURGY METHOD 67-02 M09-62203
RESEARCH INTO THE TRANSIENT THERMAL FIELD IN ALUMINIUM CLAD STEEL 67-04 M11-67349

ALUMINUM, BINARY SYSTEMS
CLASSIFICATION OF BINARY DIAGRAMS OF ALUMINUM ALLOYS 67-01 M13-58367
THERMOCHEMICAL INVESTIGATION OF ALLOYS OF THE TI-AL SYSTEM IN THE REGION OF THE ALPHA-SOLID SOLUTION
67-01 M15-58098
PREPARATION AND PROPERTIES OF ALUMINUM BORIDES
67-02 M05-62111
CRYSTAL STRUCTURE OF THE HOAL3 AND DYAL3 COMPOUNDS
67-02 M13-59674
INVESTIGATION OF THE EQUILIBRIUM DIAGRAM OF TITANIUM-RICH ALLOYS IN THE TI-AL SYSTEM
67-02 M13-59837
PHASE EQUILBRIUM DIAGRAM AND PROPERTIES OF ALUMINUM-SCANDIUM ALLOYS 67-02 M13-60744
STUDY ON BINARY DIAGRAM OF AL-BE ALLOY
67-02 M13-61024
INTERMETALLIC COMPOUNDS IN THE RARE-EARTH METALS-ALUMINUM SYSTEMS AND SOME OF THEIR PROPERTIES
67-02 M13-62185
THE NATURE OF INTERACTION BETWEEN COMPONENTS IN THE GAMMA AND GAMMA PRIME PHASE OF THE NI-AL, NI-AL-CR, NI-AL-CO AND NI-AL-FE SYSTEMS
67-02 M14-58983
REINVESTIGATION OF THE TITANIUM-RICH REGION OF THE TITANIUM-ALUMINUM EQUILIBRIUM DIAGRAM
67-02 M14-61776
ALLOY PROPERTIES ON AN ALUMINIDE BASE
67-02 M17-62180
PRE-PRECIPITATION AND PRECIPITATION PHENOMENA IN THE AL-ZN SYSTEM 67-04 M14-66534
DILATOMETRIC INVESTIGATIONS OF BINARY ALLOYS IN THE AL-ZN SYSTEMS 67-05 M15-69054
EFFECT OF ALLOYING ON THE ALUMINUM K AND IRON L X-RAY EMISSION SPECTRA IN THE ALUMINUM-IRON BINARY SYSTEM 67-05 M16-69219
THE ALUMINIUM-RICH PARTS OF THE ALUMINIUM-SAMARIUM AND ALUMINIUM-DYSPROSIUM SYSTEMS
67-06 M13-71059
CRYSTALLOGRAPHIC COMPLEXITIES IN THE AL-CU SYSTEM
67-06 M14-72232
AN INTERPRETATION OF THE SUPERPLASTICITY PHENOMENON IN TWO-PHASE ALLOYS 67-06 M17-71075
BERYLLIUM-RICH END OF FIVE BINARY SYSTEMS
67-07 M13-73742
THE GAMMA LOOP IN THE FE-AL SYSTEM
67-07 M13-74175
SUPERCONDUCTING TRANSITION TEMPERATURE AND ELECTRONIC STRUCTURE IN THE PSEUDOBINARIES NB3AL-NB3SN AND NB3SN-NB3SB 67-07 M16-73640
UTILIZATION OF THE POTENTIOSTATIC PULSE METHOD IN THE STUDY OF CORROSION PROCESSES
67-07 M18-73698
ELECTRON TRANSMISSION MICROSCOPY OF NIAL
67-08 M13-75219
INTERMETALLIC COMPOUNDS OF RARE-EARTH METALS WITH ALUMINUM AND SOME OF THEIR PROPERTIES
67-08 M13-75961
DOUBLE INVERSION OF ELECTRIC TRANSPORT IN THE AL-ZN SYSTEM IN LIQUID STATE 67-08 M15-74645
PROPERTIES OF ALLOYS BASED ON THE ALUMINIDE TI3AL 67-08 M17-75956
PHASE EQUILIBRIA STUDIES ON THE ALUMINIUM-PLUTONIUM SYSTEM 67-09 M14-76322
THE ALUMINUM BRONZES IN WELDED STRUCTURES
67-09 M14-77973
EFFECT OF ALLOYING ON ALUMINUM K AND COPPER L X-RAY EMISSION SPECTRA IN THE ALUMINUM-COPPER SYSTEM 67-09 M16-77436
PRODUCTION OF NEW PHASES BY ULTRARAPID QUENCHING OF LIQUID ALLOYS 67-11 M10-80246
THE MICROSTRUCTURE AND CRYSTALLOGRAPHY OF THE ALUMINUM-GERMANIUM EUTECTIC 67-12 M13-82731
DETERMINATION OF THE THERMODYNAMIC PROPERTIES AND THE EQUILIBRIUM PHASE DIAGRAM OF THE AU-AL SYSTEM
67-12 M13-83199
REACTION DIFFUSION AND KIRKENDALL-EFFECT IN THE NICKEL-ALUMINUM SYSTEM 67-12 M14-82757

ALUMINUM, BONDING
THE PROBLEM OF JOINING AL TO PB AND PB TO FE
67-01 M11-58624
ADHESIVE BONDING DIE CASTINGS 67-02 M11-60994
DIFFUSION-BONDING OF FORMABLE STRUCTURAL PANELS BY COMPOSITE ROLLING 67-02 M11-61841
STRUCTURAL ADHESIVES BOND METAL GLASS AND RUBBER
67-02 M11-61858
STAINLESS STEEL HELICOPTER BLADES.. THEY GO WHERE THE ACTION IS 67-03 M07-65014
ADHESIVES JOIN CURVED PARTS 67-04 M11-66382
HOW TO USE FLUOROCARBON PLASTICS AS BONDING AGENTS
67-05 M11-68699
INVESTIGATION OF ADHESIVELY BONDED TUBE JOINTS OF ALUMINUM 67-05 M11-69034
METAL LAMINATE COMPOSITE MATERIALS FOR COMPRESSOR BLADING 67-07 M09-73363
METALLIC ADHESION OF ALUMINUM PROFILES
67-10 M11-79238
PRESSURE BONDING 67-11 M11-80479

ALUMINUM, BRAZING
FOR ALUMINUM OR MAGNESIUM...NEW PROCESS FEATURES CLOSE CONTROL OF BRAZING HEAT
67-04 M11-66242
A FLUX FOR FURNACE BRAZING ALUMINUM AND ITS ALLOYS
67-04 M11-66571
ALUMINUM DIP BRAZING 67-06 M11-70779
MODERN TECHNIQUES FOR ALUMINIUM BRAZING
67-06 M11-71436
A FLUX FOR THE FURNACE BRAZING OF ALUMINIUM AND ALUMINIUM ALLOYS 67-07 M11-73428
METALS JOINING 67-09 M11-77091

ALUMINUM, BUILDINGS
THE USE OF ALUMINUM IN AGRICULTURAL BUILDINGS
67-10 M01-79387

ALUMINUM, BUS CONDUCTORS
MEASURING ELECTRICAL CONDUCTIVITY OF AL-CU WELDED JOINTS 67-01 M15-57398

ALUMINUM, CASTING

CONTINUOUS CASTING OF NON-FERROUS METAL BILLETS AND SLABS. PT. 1 67-02 M03-61644
IMPORTANCE OF SHOT CONTROL IN COLD CHAMBER DIE CASTING 67-02 M06-59498
COLD CHAMBER DIE CASTING MACHINES GET AUTOMATIC METAL POURING 67-02 M06-61091
NEW DIMENSIONS IN ALUMINIUM DIE CASTING 67-02 M06-61847
AUTOMATED SYSTEM FOR LOW-PRESSURE DIE-CASTING 67-02 M06-61848
AUTOMATIC GRAVITY DIECASTING MACHINE FOR ALUMINIUM TRACTOR-ENGINE PISTONS 67-02 M06-61910
CONTINUOUS CASTING OF NON-FERROUS METAL BILLETS AND SLABS. PT. 2 67-03 M03-65500
THE GATING OF DIECASTINGS 67-03 M06-65682
ON CAUSES OF THE CHANGE OF DIAMETER OF SMALL SPHERICAL CASTINGS DURING SOLIDIFICATION IN SAND MOLD 67-04 M06-67115
TRENDS IN DIECASTING 67-04 M06-68114
CONTINUOUS PRODUCTION OF WIRE, TAPE AND NARROW STRIP 67-05 M06-69593
POROUS ALUMINUM INGOTS 67-06 M03-70916
CONTINUOUS CASTING FACILITY--IMPORTANT IN FOIL ROLLERS SERVICE 67-06 M03-71585
NUCLEATION OF THE EQUIAXED ZONE IN CAST METALS 67-06 M06-69937
PERMANENT MOLD FOUNDRY SLASHES DIE COST WITH SHAW CASTING PROCESS 67-06 M06-70227
CAST DIES FOR FORGING AND DIECASTING 67-06 M06-71579
SOLIDIFICATION OF SIMPLE SHAPED ALUMINUM AND ITS ALLOY CASTINGS IN METALLIC MOLDS 67-06 M06-72187
HEAT EXTRACTION BY METALLIC MOLDS DURING SOLIDIFICATION OF SIMPLE SHAPED ALUMINUM AND ITS ALLOY CASTINGS 67-06 M08-70675
NEW TECHNIQUES FOR PRECISION DIE CASTING 67-07 M06-72800
DIRECT CHILL CASTING OF ALUMINIUM AND ITS APPLICATION AT COMALCO ALUMINIUM --BELL BAY-- LIMITED 67-07 M06-73611
CASTING 67-08 M06-74839
AUTOMOTIVE APPLICATIONS OUTSIDE THE ENGINE 67-08 M20-74828
USE OF AUTOMATIC RECORDING DEVICES FOR DETERMINING THE SHAPE OF THE COOLING FRONT OF ALUMINUM AS SEMICONTINUOUSLY CAST 67-09 M03-77761
METHODS OF TREATING METAL AND STEEL MELTS BY VIBRATION WITH EMPHASIS ON GRAIN REFINEMENT BY TREATING WITH ULTRASONIC WAVES DURING SOLIDIFICATION 67-09 M06-77845
PLASTER-MOLD ALUMINUM CASTINGS 67-09 M06-77979
SOME EXPERIMENTS ON CENTRIFUGAL CASTING OF ALUMINIUM 67-10 M06-78773
PILOT CANOPY FRAME CASTING CUTS COSTS OVER 50 PER CENT 67-10 M06-78774
AUTOMATIC COLD CHAMBER PRESSURE DIE CASTING MACHINE 67-10 M06-78786
THE HONSEL-PLASTERMOLD PROCESS 67-10 M06-79084
PATHWAY TO PROFITABLE TOOLING THROUGH PRECISION CASTING 67-10 M06-79523
THE WHEELDON PROCESS 67-10 M06-79749
THE PROPERZI PROCESS--1967 PROGRESS REPORT. PT. 1 67-10 M06-80092
STUDY OF THE OPERATION OF MIXERS FOR CASTING ALUMINUM AND ALUMINUM ALLOY INGOTS 67-11 M06-81502
LOW PRESSURE FOR QUALITY DIE CASTINGS 67-12 M06-81925
DIECASTING AUTOMATION FOR A CUSTOM SHOP 67-12 M06-81957
LIFE TESTING HOT WORK DIE STEELS 67-12 M19-82702

ALUMINUM, CASTINGS
LIGHT METAL PRESSURE DIE CASTINGS IN EUROPEAN MOTOR VEHICLES 67-10 M20-78783

ALUMINUM, CAVITATION
CAVITATION AND ITS EFFECT ON THE PHYSICAL CHARACTERISTICS OF ALUMINUM 67-01 M17-58043

ALUMINUM, CHEMICAL ANALYSIS
ENRICHMENT AND SPECTROPHOTOMETRIC DETERMINATION OF SMALL AMOUNTS OF CHROMIUM AND THE APPLICATION OF THE METHOD IN THE ALUMINIUM INDUSTRY 67-01 M03-57209
THE POLAROGRAPHIC DETERMINATION OF ALUMINUM IN ZINC-BASE ALLOYS AND IN THE ZINC LAYER OF GALVANIZED SHEETS 67-01 M19-57912
HOW IMPURITY DETECTION IN ALUMINUM STANDS TODAY 67-01 M19-58095
MICROANALYSIS OF OXYGEN BY A RADIOACTIVE REAGENT 67-03 M19-65252
THE SPECTROCHEMICAL DETERMINATION OF ALUMINUM OXIDE IN METALLIC ALUMINUM 67-05 M19-69622
METHOD FOR DETERMINATION OF VANADIUM IN ALUMINUM AND ALUMINUM ALLOYS 67-06 M19-71443
MASS SPECTROMETRY. CONTRIBUTION TO THE STUDY OF THE ANALYSIS OF ALUMINUM 67-06 M19-72190
AN AUTORADIOGRAPHIC STUDY OF THE DISTRIBUTION OF IRON IN CAST ALUMINIUM-IRON SOLID SOLUTION 67-07 M19-72817
THE ALU-SCHMELZTESTER--A NEW INSTRUMENT FOR THE DETERMINATION OF HYDROGEN IN ALUMINUM MELTS 67-07 M19-74032
DETERMINATION OF MICRO AMOUNT OF IRON IN ALUMINIUM METALS AND ALUMINIUM ALLOYS BY ATOMIC ABSORPTION SPECTROMETRY 67-08 M19-74421
HYDROGEN DETERMINATION IN ALUMINUM AND ALUMINUM ALLOYS BY ANNEALING IN A VACUUM AT 450 TO 600 C 67-09 M19-77032
CONTRIBUTION TO THE SPECTROGRAPHIC DETERMINATION OF SMALL CONCENTRATIONS OF ALUMINUM IN STEEL 67-10 M19-79726
MASS SPECTROGRAPHY, A RECENT ANALYTICAL METHOD, AND ITS APPLICATION TO THE ANALYSIS OF ALUMINUM 67-11 M19-80148

ALUMINUM, CLADDING
COPPER CLAD ALUMINUM WIRE--A NEW ELECTRICAL CONDUCTOR MATERIAL 67-04 M20-66132
CLAD METAL WIRE OUTPERFORMS SOLID WIRE 67-05 M12-68425
STRENGTH AND STRUCTURE OF AL-CU BONDED JOINTS 67-05 M17-69541
DEPENDENCE OF BOND QUALITY ON THE ROLLING CONDITIONS OF BIMETAL 67-08 M12-75215
A HYDRAULIC PRESS FOR CLADDING A STEEL WIRE WITH AN ALUMINUM SHEATH 67-12 M12-82067

ALUMINUM, CLEANING
CONTINUOUS PRETREATMENT OF SHEET AND STRIP BEFORE PAINTING 67-01 M12-57164
MODERN PRACTICES FOR FINISHING ALUMINUM--CLEANING AND BRIGHTENING 67-02 M12-59464
CLEANING AND MAINTENANCE OF SURFACES 67-08 M12-74860
A PHOSPHORIC-SULPHURIC-NITRIC ACID BATH FOR CHEMICAL POLISHING OF COMMERCIAL PURITY ALUMINIUM 67-10 M12-78754
CHEMICAL DERUSTING IN THE PRODUCTION LINE 67-12 M12-82131
PRECISION DEBURRING CONDITIONS WORKPIECES WITHOUT DISTORTION OR CHANGE OF DIMENSION 67-12 M12-82380

ALUMINUM, COATING
PLASTIC LINED ALUMINUM SHEET 67-01 M01-57460
CONTINUOUS ANODIZING AND LACQUERING LINES FOR ALUMINUM STRIPS 67-01 M12-57461
SECRET IN ANODIC OXIDIZING AND BLACKING 67-01 M12-58005
LACQUERING, COATING AND LAMINATION OF WIDE STRIP 67-01 M12-58111
PRODUCTION OF COLORED ANODIC OXIDE FILMS ON ALUMINUM 67-01 M12-58361
THE ENAMELLING OF ALUMINUM 67-01 M12-58429
CHEMICAL CONVERSION COATING OF AL AND AL ALLOY SURFACES 67-01 M12-58434
LONG ALUMINUM EXTRUSIONS COATED IN VERTICAL FINISHING SYSTEM AT ELECTRO FINISH PLANT 67-01 M12-58452
APPLICATION OF COLOR ANODIZING IN ARCHITECTURE 67-02 M12-59996
EUROPES WIDEST ALUMINIUM PRE-PAINT LINE 67-02 M12-60903
HIGHLIGHT DEVELOPMENTS IN PLATING 67-02 M12-60904
PLATING ON ALUMINUM AND ALUMINUM ALLOYS 67-02 M12-60991
MODERN FINISHING PROCESSES FOR ALUMINIUM AND ITS ALLOYS 67-02 M12-62287
NEW PROTECTIVE COATING FOR NON-FERROUS METALS 67-02 M18-61094
COATING BY THE ELECTRON BEAM 67-03 M12-65480
ELECTROCOATING ALUMINUM EXTRUSIONS 67-03 M12-65486
EXPERIENCE WITH EPOXY POWDER SPRAY METHODS FOR METAL COATING 67-03 M12-65568
IMPREGNATION, SEALING AND COATING WITH EPOXY RESINS 67-03 M12-65569
ARCHITECTURAL ANODIZING 67-03 M12-65697
EUROPES BIGGEST ALUMINIUM PRE-PAINT LINE

67-03 M12-65699
MODERN PRACTICES FOR FINISHING ALUMINUM--ANODIZING AND SEALING 67-03 M12-65976
MANUFACTURE OF BRIGHT ANODIZED ALUMINUM PARTS FOR THE AUTOMOBILE INDUSTRY 67-04 M08-68018
PRECOATED STRIP 67-04 M12-66137
LONG-TANK ANODIZING FACILITIES 67-04 M12-66194
OBTAINING A SURFACE LAYER SIMILAR TO SAP 67-04 M12-66878
CONTINUOUSLY ANODIZED ALUMINUM COIL 67-04 M12-67718
ANODIZING OF ROLLED AND EXTRUDED AL AND AL ALLOY SEMIFINISHED PRODUCTS 67-04 M12-67727
MECHANISM OF ANODIC COATING FORMATION ON ALUMINUM 67-04 M12-67789
THE PRETREATMENT OF STEEL AND AL BY THE KANIGEN PROCESS 67-04 M12-68004
THE SURFACE TREATMENT OF EXTRUDED PARTS 67-04 M12-68059
ALUMINIUM PRE-PAINT LINE 67-04 M12-68154
ARCHITECTURAL ANODIZING 67-05 M12-68800
DECORATIVE AND PROTECTIVE FINISHES PRODUCED ON ALUMINIUM BY HARD ANODIZING 67-05 M12-68814
INVESTIGATION OF PROTECTIVE FILMS ON AL FORMED DURING ELECTROLYTIC AND CHEMICAL POLISHING 67-05 M12-68860
STATISTICAL ANALYSIS OF THE FORMATION AND DISSOLUTION OF ANODIC OXIDE FILMS ON AL 67-05 M12-68894
THE FLAME SPRAYING OF NONMETALLIC PROTECTIVE COATINGS. PT. 8 67-05 M18-68923
DIELECTRIC BREAKDOWN OF ANODIC OXIDE FILMS ON VALVE METALS 67-05 M18-69843
PLATING ON ALUMINIUM BY THE ALSTAN 70 PROCESS 67-06 M12-70602
HARD ANODIZING ALUMINUM AND ITS ALLOYS 67-06 M12-71068
INDENTIFICATION AND DESCRIPTION OF THE PROPERTIES OF ANODIC OXIDE FILMS ON AL 67-06 M12-71981
INFLUENCE OF THE PHYSICAL STATE OF THE CONSTITUENTS OF THE METAL ON THE QUALITY OF ANODIZED COATINGS 67-06 M12-72195
RECENT WORK ON STANDARDIZATION IN THE FIELD OF SURFACE TREATMENTS AND PARTICULARLY IN ALUMINUM ANODIZING 67-06 M19-71712
NEW LIGHT METAL FABRICATING TECHNIQUES DEVELOPED WITH NUCLEAR ENGINES 67-06 M20-71586
METAL BUILDING MAKERS EYE 20-YEAR COATING 67-07 M12-74299
CATALYTIC OXIDATION OF FUMES RECOVERS OVEN HEAT IN CONTINUOUS BAKING OF COATED ALUMINUM STRIP 67-08 M10-75499
FINISHING ALUMINUM BY ELECTROPLATING FROM AN ELECTROLESS BATH 67-08 M12-74397
SYNTHETIC COATINGS FOR AL 67-08 M12-74597
ANODIZING 67-08 M12-74856
PAINTING AND OTHER ORGANIC COATING 67-08 M12-74858
VERSATILE COIL COATING LINE FOR SPAIN 67-08 M12-74949
COIL-COATING LINE IN SPAIN 67-08 M12-75135
RECENT DEVELOPMENTS IN THE VACUUM DEPOSITION OF ELECTRONIC FILM CIRCUITS 67-08 M12-75175
PREPARES ALUMINUM FOR TEFLON COATING 67-08 M12-75396
FLUIDIZED BED INSULATES BUS BARS 67-08 M12-75532
LIQUID POLYETHLENE DISPERSIONS COAT STEEL, ALUMINUM, COPPER 67-08 M12-76064
CONTINUOUS STRIP COATING LINE IN SPAIN 67-08 M12-76195
PLATING PROGRESS 67-09 M12-76425
METALLIC COATINGS SOLVE ENVIRONMENTAL PROBLEMS 67-09 M12-76469
ELECTROKINETIC BEHAVIOR OF ANODIC OXIDE COATING OF ALUMINUM. PT. 1. ZETA POTENTIAL AND DYEING AFFINITY OF ANODIC OXIDE COATING OF ALUMINUM 67-09 M12-76681
THE STANNATE PROCESS FOR ELECTROPLATING ALUMINUM 67-09 M12-77078
THE CHEMICAL SURFACE TREATMENT OF AL SURFACES 67-09 M12-77206
ELECTROPLATING ON ALUMINIUM 67-09 M12-77555
THE DEVELOPMENT OF ALUMINUM SURFACE PROTECTION METHODS FROM THE POINT OF VIEW OF UNITED ALUMINUM WORKS 67-09 M12-78174
PORCELAIN ENAMEL ON ALUMINUM 67-09 M18-77909
ORGANIC COATING OF ALUMINUM EXTRUSIONS 67-10 M12-78462
ELECTROCOATING OF EXTRUSIONS PROVIDES AN EVEN FINISH 67-10 M12-78463
PREPARATION OF AN ALUMINUM SURFACE FOR ELECTROLYTIC NICKEL PLATING 67-10 M12-78541
ELECTROSTATIC SETUP PAINTS LONG SLENDER ALUMINUM EXTRUSIONS 67-10 M12-79105
STANNATE PROCESS BOOSTS POTENTIAL FOR PLATED ALUMINIUM 67-10 M12-79421
THE ANODIC OXIDATION OF ALUMINUM IN THE PRESENCE OF A HYDRATED OXIDE 67-10 M15-79967
MYRIAD NEW SURFACE ALLOYS VIA ELECTROLYSIS 67-11 M12-80790
HARD ANODIC OXIDE FILMS ON ALUMINUM WITH IMPROVED ELECTROINSULATION PROPERTIES 67-11 M12-81291
THE CHEMIDIZING PROCESS 67-11 M12-81699
ELECTROCOATING ALUMINUM EXTRUSIONS 67-12 M12-81934
TRENDS IN PLASTIC COATED PIPING 67-12 M12-82647
METHOD FOR THE CONTINUOUS SURFACE TREATMENT OF METAL STRIP 67-12 M12-83453
THE ANODIZATION OF ALUMINUM AND NORMALIZATION 67-12 M12-83582

ALUMINUM, COATINGS
ALUMINUM TAKES TO ELECTROFORMING 67-01 M12-57437
NEW METALLIC COATINGS AND TREATMENTS FOR CONTAINER STEEL SURFACES 67-01 M12-57547
APPLICATIONS OF METALLIZING IN THE STEEL MILL 67-01 M18-57163
CORUNDIZATION--A NEW PROTECTIVE METHOD FOR ANNEALING AND HARDENING VESSELS OF CHROMIUM-NICKEL STEEL AGAINST SULFURIZATION AND CARBURIZATION 67-01 M18-58721
ELECTROPHORETIC DEPOSITION OF ALUMINUM POWDER 67-02 M12-59158
HEATING AND COOLING UNIT FOR USE WITH POLAROID X-RAY CAMERA 67-02 M12-60699
CALORIZING OF NICKEL BY A CIRCULATORY METHOD 67-02 M12-61988
SOME EXAMPLES OF THE USE OF FLAME-SPRAYED COATINGS FOR PROTECTION AGAINST HOT GASES 67-02 M12-62026
MEASURING TEMPERATURES IN HEAT TREATING 67-02 M19-60862
BONDING OF ALUMINIUM FOIL AND POWDER TO STEEL STRIP 67-04 M12-66982
SPOT WELDING OF ALUMINUM TO ALUMINUM-PLATED STEEL 67-06 M11-71654
VAPOR-PLATING ALUMINUM ON BERYLLIUM FOR WELDING 67-06 M11-71681
OXIDATION OF TANTALUM COATED WITH ALUMINUM AND ALUMINUM-CHROMIUM ALLOYS 67-06 M12-70796
ON ALUMINUM COATING. PT. 2. COATING OF SHEET STEEL WITH METAL POWDER 67-06 M12-71293
A NEW PROCESS FOR ALUMINIUM COATING STEEL STRIP 67-06 M12-72020
METALLIZING. PT. 9 67-06 M12-72136
DIFFUSION METHODS FOR THE PROTECTION OF METALLIC SURFACES 67-06 M12-72158
ELIMINATION OF NITROGEN FROM LOW-CARBON STEEL SHEET BY AN ALUMINUM DIFFUSION TREATMENT 67-07 M12-72552
PROTECTION OF COPPER BY DIFFUSION COATING WITH ALUMINUM 67-07 M12-74190
THE CORROSION PROTECTION OF STEEL STRUCTURES BY SPRAY GALVANIZING 67-07 M18-73233
THE PAINTING OF METAL-SPRAYED STRUCTURAL STEEL 67-07 M18-73641
ALUMINUM COATING OF URANIUM REACTOR PARTS FOR CORROSION PROTECTION 67-07 M18-74241
ROLL COMPACTING OF ALUMINUM-CLAD SINTERED STRIP 67-08 M09-74915
THE LARGE-SCALE DEPOSITION OF PROTECTIVE LAYERS ON STEEL STRIP BY VACUUM DEPOSITION 67-08 M12-75671
USES IN PIGMENTS AND PAINTS 67-08 M20-74836
BATHING METAL WITH ALLOY COATINGS 67-09 M12-76448
SPOT WELDING ALUMINIUM TO ALITISED STEEL 67-10 M11-79622
ALUMETIZING OF NICKEL BY THE CIRCULATION METHOD 67-10 M12-78845
PLASMA-SPRAYED DIELECTRIC COATINGS FOR HEAT SINKS IN ELECTRONIC PACKAGING 67-12 M12-81895
ELECTROFORMING ALUMINIUM 67-12 M12-83138
CONTROL GLASS PROPERTIES WITH FILMS AND COATINGS 67-12 M12-83176
CORROSION PROPERTIES OF COMBINATION COATINGS

67-12 M18-81721
ALUMINUM, COLD PRESSING
EXPERIENCE IN THE COLD EXTRUSION OF ALUMINUM-ALLOY BLANKS 67-12 M07-83099
ALUMINUM, COMPOSITE MATERIALS
STRUCTURE AND PROPERTIES OF COMPOUNDS OF ALUMINUM WITH SILICON CARBIDE 67-05 M17-68387
THE EFFECT OF RESIDUAL STRESS AND COLD WORK ON THE LOAD DEFORMATION CURVE OF ALUMINUM MATRIX STEEL FIBER COMPOSITES 67-07 M09-73359
PLASTIC-ALUMINIUM COMPOSITES 67-08 M11-76183
MICROMECHANICS OF BORON FILAMENT REINFORCED ALUMINUM COMPOSITES 67-11 M17-80691
THE STRENGTH OF TUNGSTEN-FIBER-REINFORCED ALUMINUM COMPOSITES AT HIGH TEMPERATURES 67-11 M17-81057
FABRICATION AND EVALUATION OF SAPPHIRE WHISKER REINFORCED ALUMINUM COMPOSITES 67-12 M14-81737
ALUMINUM, CONDUCTORS /DEVICES/
THE USE OF ALUMINUM FOR SMALL CROSS-SECTION CONDUCTORS 67-07 M20-74033
ALUMINUM, CONTAINERS
NEW METAL SUBSTRATES FROM THE CAN MAKERS VIEWPOINT 67-01 M20-58799
ALUMINUM, CORROSION
INVESTIGATION OF THE CORROSION OF ALUMINUM IN WATER AT HIGH TEMPERATURES 67-01 M18-58048
THE EFFECT OF INTERNAL STRESSES, ESPECIALLY UPON STRESS CORROSION 67-01 M18-58296
THE CORROSION AND CORROSION PROTECTION OF ALUMINUM 67-01 M18-58375
GALVANIC EFFECTS IN VACUUM DEPOSITED THIN FILMS. 67-02 *M18-59454
LITERATURE REVIEW OF THE CORROSION AND CORROSION PROTECTION OF AL AND AL ALLOYS 67-02 M18-60033
CORROSION OF ALUMINUM AND TITANIUM IN GAPS 67-02 M18-60787
THE CORROSION BEHAVIOR OF AL IN PHENOL 67-02 M18-60985
THE INFLUENCE OF ALLOYING ELEMENTS ON ALUMINUM ANODES IN SEA WATER 67-03 M18-65473
SOME VAPOR PHASE INHIBITOR EXPERIMENTS 67-03 M18-65474
PROGRESS IN THE BATTLE WITH CORROSION OF AUTOMOBILES 67-03 M18-65975
ALUMINIUM BUSBARS IN PLATING 67-04 M12-68164
CORROSION RESISTANCE OF ALUMINUM IN VARIOUS MEDIA. PT. 3 67-04 M18-66022
CORROSION RESISTANCE OF ALUMINUM AND STAINLESS STEEL DURING ANODIC POLARIZATION 67-04 M18-67291
LOCAL CORROSION OF THE ANODE IN THE LOW TEMPERATURE HARD ANODIZING PROCESS OF ALUMINUM 67-04 M18-67594
INHIBITION OF CORROSION OF ALUMINIUM IN SULPHURIC ACID SOLUTIONS 67-04 M18-68166
INFLUENCE OF CUPRIC IONS ON THE BEHAVIOR OF SURFACE-ACTIVE AGENTS TOWARDS ALUMINIUM 67-05 M18-68312
SOME CORROSION PHENOMENA AND THEIR PREVENTION 67-05 M18-68610
THE CORROSION BEHAVIOUR OF ANNEALED AND COLD WORKED HIGH-PURITY ALUMINUM IN PRESSURIZED WATER 67-05 M18-68642
ALTERNATING CURRENT AND ALUMINUM--TESTS DETERMINE EFFECT OF A-C ON ALUMINUM CONDUCTORS 67-05 M18-68795
EVALUATION OF ACCELERATED CORROSION TESTS FOR ANODIZED ALUMINIUM 67-05 M18-68823
FIVE-YEAR EXPOSURE TESTS ON ANODIZED ALUMINIUM IN A SEVERE INDUSTRIAL ATMOSPHERE 67-05 M18-68824
THE KINETICS OF THE OXIDATION OF AL IN OXYGEN AT HIGH TEMPERATURE 67-05 M18-69703
CORROSION AND PROTECTION METHODS FOR ALUMINUM SHEATH OF COMMUNICATION CABLES 67-05 M18-69830
CORROSION PROBLEMS ON FINNED AIR-COOLED HEAT EXCHANGER TUBING 67-06 M18-70546
USE OF PONTENTIOSTATIC METHODS FOR THE STUDY OF THE BEHAVIOR OF ALUMINIUM AND ITS ALLOYS IN VARIOUS MEDIA 67-06 M18-70577
ANODIC POLARIZATION BEHAVIOR OF PURE ALUMINUM AND SAP --SINTERED ALUMINUM POWDER-- IN HALIDE SOLUTIONS 67-06 M18-70790
PITTING DISSOLUTION BEHAVIORS OF PURE ALUMINUM AND SAP --SINTERED ALUMINUM POWDER-- IN WEAK ALKALINE AQUEOUS SOLUTIONS OF NACL 67-06 M18-70791
THE SO2-REPELLENT ACTION OF AL EXPOSED TO THE INFLUENCE OF THE ATMOSPHERE 67-06 M18-71985
CORROSION OF AL PRODUCTS PRIOR TO INSTALLATION AND MEANS FOR AVOIDING IT 67-06 M18-71986
THE USE OF ALUMINIUM-RICH ALLOYS IN SHIPBUILDING 67-06 M20-72256
METALLOGRAPHIC STUDIES ON THE COMMENCEMENT OF DESTRUCTION OF METALLIC MATERIALS BY CAVITATION IN WATER OF 50 TO 55 C 67-07 M18-72481
EVALUATION OF ALUMINUM PANELS EXPOSED IN THE PACIFIC OCEAN AT 2340 FEET FOR SIX MONTHS 67-07 M18-72483
POTENTIOSTATIC POLARIZATION BEHAVIORS OF HIGH-PURITY ALUMINUM IN NEUTRAL SOLUTIONS CONTAINING NO3- OR NO2- IONS 67-07 M18-72527
RECOGNITION OF CORROSION HAZARDS TO METALS IN BUILDING 67-08 M18-74705
ELECTROKINETIC STUDIES ON OXIDIZED ALUMINUM SURFACES 67-08 M18-74788
RESISTANCE TO CORROSION AND STRESS CORROSION 67-08 M18-74808
RESEARCH ON THE CORROSION OF ALUMINUM IN WATER AT HIGH TEMPERATURES AND PRESSURES 67-08 M18-75062
STRUCTURES AND EQUIPMENT FOR CHEMICAL, FOOD, DRUG, BEVERAGE AND ATOMIC INDUSTRIES 67-08 M20-74825
CAVITATION DAMAGE PATTERNS WITH MAGNETOSTRICTIVE OSCILLATORS 67-09 M18-76662
CORROSION RESISTANCE OF ALUMINUM TO ALKALINE BUILDING MATERIALS 67-09 M18-77077
CRITERIA OF SOIL AGGRESSIVENESS TOWARDS BURIED METALS. PT. 3. VERIFICATION OF PREDICTED BEHAVIOR OF SELECTED SOILS 67-09 M18-77488
INVESTIGATION OF CORROSION RESISTANCE OF METALS UNDER CONDITIONS OF SYNTHESIS OF PHENOL FROM TOLUOL 67-09 M18-77955
THE BEHAVIOR OF SODIUM SILICATE AS A CORROSION INHIBITOR FOR ALUMINUM IN ALKALINE SOLUTIONS 67-10 M18-78467
CONDICTIONS OF ORIGIN AND APPEARANCE FORMS OF PITTING CORROSION IN THE ANODIC OXIDATION OF AL BY THE GX METHOD 67-10 M18-79400
ELECTROCHEMICAL CORROSION EXPERIMENTS AT TEMPERATURES ABOVE 100 C 67-11 M18-80707
EFFECT OF KATAPIN K ON THE CORROSION BEHAVIOR OF CERTAIN METALS AND ALLOYS IN SULFURIC ACID 67-11 M18-81282
SELECTION OF INHIBITORS FOR LONG-TERM CONSERVATION OF WATER SYSTEMS 67-11 M18-81283
THE EFFECT OF INITIAL WEATHER CONDITIONS ON THE ATMOSPHERIC CORROSION OF ALUMINUM AND ITS ALLOYS 67-11 M18-81522
ATMOSPHERIC CORROSION TESTS IN SWEDEN. HARD ROLLED ALUMINUM ALLOYS 67-11 M18-81523
CORROSION AND HEAT TRANSFER--A REVIEW 67-11 M18-81549
CORROSION AND METHODS OF PROTECTING THE ALUMINUM CASING BY COMMUNICATION CABLES 67-12 M18-82264
SELECTION OF METALS FOR MARINE APPLICATIONS 67-12 M18-83226
ALUMINUM, CRYSTAL DEFECTS
THE THEORY OF STACKING-FAULT ENERGIES IN CLOSE-PACKED METALS 67-05 M13-68759
NUCLEATION OF DEFECTS IN METALS 67-05 M14-69730
ALUMINUM, CRYSTAL GROWTH
CHANGE IN MOSAIC STRUCTURE ASSOCIATED WITH THE DISTRIBUTION OF IMPURITIES IN GROWING SINGLE CRYSTALS AND BICRYSTALS FROM THE MELT 67-01 M14-57102
INFLUENCE OF THE VAPORIZATION METHOD ON THE STRUCTURE AND PROPERTIES OF AL AND CU VACUUM CONDENSATES 67-02 M17-62080
THE FORMATION OF SINGLE CRYSTAL FILMS OF FCC METALS ON ALKALI HALIDE CLEAVAGE PLANES IN ULTRAHIGH VACUUM 67-03 M14-65381
ON THE INFLUENCE OF ULTRASONIC TREATMENTS ON THE RECRYSTALLIZATION OF ZINC 67-06 M14-71863
THE PREPARATION OF CRYSTALLINE ALUMINUM BORIDES BY A VAPOR DEPOSITION PROCESS 67-08 M14-75296
EFFECTS OF THE CONDITIONS UNDER WHICH ALUMINUM MONOCRYSTALS GROW OUT OF MOLTEN ALUMINUM ON THEIR DISLOCATIONAL STRUCTURE 67-09 M14-76887
PRODUCING SINGLE CRYSTALS OF PURE ALUMINUM BY THE STRONG METHOD 67-11 M14-80728
ALUMINUM, CRYSTAL LATTICES

ALUMINUM

CLIMB SOURCES IN QUENCHED ALUMINUM AND IN ALUMINUM-0.5 PER CENT SILVER ALLOY 67-01 M13-57124
TWO-TRIANGLE LOOPS IN QUENCHED ALUMINUM 67-01 M13-57125
THREE-LAYER DEFECTS IN QUENCHED ALUMINIUM 67-01 M13-57486
LATTICE VIBRATIONS OF ALUMINIUM ON THE BASIS OF KREBSS MODEL 67-01 M16-57566
AMPLITUDE DEPENDENCE OF THE INTERNAL FRICTION AND MODULUS DEFECT IN ALUMINIUM. PT. 2. INVESTIGATIONS IN THE KC/S-RANGE 67-01 M17-58342
AMPLITUDE DEPENDENCE OF THE INTERNAL FRICTION AND MODULUS DEFECT IN ALUMINIUM. PT. 3. COMBINED KC/S MC/S-INVESTIGATIONS 67-01 M17-58343
VACANCY CONCENTRATIONS IN QUENCHED ALUMINUM 67-02 M13-58967
CONTINUOUS OBSERVATION OF RECRYSTALLIZATION AND SUCCESSIVE COARSENING IN ALUMINUM WITH A 500 KV ELECTRON MICROSCOPE 67-02 M14-59071
FRICTIONAL WEAR IN FCC METAL SINGLE CRYSTALS 67-02 M14-60142
THE INTERPRETATION OF RECOVERY STAGES IN IRRADIATED METALS 67-02 M14-61520
ELIMINATION OF DEFECTS IN AL IRRADIATED BY FAST NEUTRONS 67-02 M16-60745
TECHNIQUE FOR MEASURING VACANCY CONCENTRATIONS IN METALS AT THE MELTING POINT 67-03 M13-65876
NUCLEATION AND GROWTH OF VOIDS IN QUENCHED ALUMINUM 67-03 M14-65639
THE EXPERIMENTAL STUDY OF POINT DEFECTS IN PURE METALS 67-04 M13-67310
METALLURGICAL APPLICATIONS OF A 500 KV ELECTRON MICROSCOPE 67-04 M13-67551
A THEORY OF STEADY-STATE CREEP BASED ON DISLOCATION CLIMB AND ACTIVE FRANK-READ SOURCES 67-04 M14-66897
PROBLEM OF THE X-RAY DIFFRACTION ANALYSIS OF THE POLYGONIZATION OF ALUMINIUM SINGLE CRYSTALS 67-04 M14-67658
ULTRASONIC METHODS IN THE STUDY OF PLASTIC DEFORMATION 67-04 M17-66226
FOUR-LAYER DEFECTS IN QUENCHED ALUMINIUM 67-05 M13-68749
HETEROGENEOUS NUCLEATION OF VOIDS IN QUENCHED ALUMINUM 67-05 M14-69759
CRYSTAL STABILITY CALCULATIONS OF SIMPLE METALS--ALKALI METALS AND ALUMINIUM 67-06 M13-70468
THE CHANGE OF CRYSTAL ELASTIC CONSTANT CAUSED BY THE PRESENCE OF VACANCIES 67-06 M13-70635
FAULTED DEFECTS AND STACKING-FAULT ENERGY 67-06 M13-71534
LATTICE DEFECT RESEARCH BY KOSSEL TECHNIQUE AND DEFORMATION ANALYSIS 67-06 M14-71421
ELECTRON MICROSCOPE OBSERVATION OF RECOVERY AND RECRYSTALLIZATION OF ALUMINUM 67-06 M14-71445
DISLOCATION ARRANGEMENT IN MATERIALS DEFORMED AT HIGH VELOCITY 67-07 M13-74274
EFFECT OF GRIP STRESSES ON DISLOCATION CONFIGURATION AFTER PLASTIC DEFORMATION 67-07 M14-72644
THE FORMATION AND MOTION ENERGIES OF VACANCIES IN ALUMINIUM 67-07 M14-73142
A DEVICE FOR THE CONTINUOUS DETERMINATION OF THE CRYSTALLOGRAPHIC ORIENTATION OF FILIFORM SINGLE CRYSTALS 67-07 M19-73894
FORMATION OF DISLOCATION LOOPS IN DEGASSED AND QUENCHED AL 67-08 M13-76169
EVOLUTION OF FOLDS DURING HOT TENSILE STRESSING OF LARGE AL CRYSTALS 67-08 M13-76218
EFFECT OF THE CONCENTRATION OF SI ON THE SUBSTRUCTURE OF AL MONOCRYSTALS 67-09 M13-77753
CHANGES IN LATTICE PARAMETERS OF NEUTRON-IRRADIATED ALUMINUM 67-09 M14-77834
DEVELOPMENT OF DRAWING AND COMPRESSION TEXTURES 67-09 M14-77992
ROLLING AND RECRYSTALLIZATION TEXTURES IN ALUMINUM 67-09 M14-78207
CLIMB KINETICS OF DISLOCATION LOOPS IN ALUMINIUM 67-10 M14-78904
A STUDY OF TENSILE-DEFORMED ALUMINUM BY TRANSMISSION ELECTRON MICROSCOPY 67-10 M14-79288
PHONONS 67-10 M16-78307
EFFECT OF TEMPERATURE ON THE PENETRATION OF HEAVY KEV IONS IN MONOCRYSTALLINE SOLIDS. PT. 2. VARIOUS IONS IN GOLD, ALUMINUM, AND TUNGSTEN 67-11 M16-80323
CHANGES OF FINE STRUCTURE OF ALUMINUM POWDERS WHILE HEATING IN OXIDIZING AND INERT MEDIA 67-12 M09-82202
THE INFLUENCE OF A DILUTE MAGNESIUM ADDITION ON THE GROWTH AND SHRINKAGE OF DISLOCATION LOOPS IN ALUMINIUM 67-12 M13-82540
THE FORMATION OF VACANCY CLUSTERS IN ALUMINUM 67-12 M13-82549
METHOD OF CALCULATING THE ENERGY OF SYMMETRICALLY BENT INTERGRANULAR JOINTS 67-12 M13-83102
X-RAY SPECTROSCOPIC INVESTIGATION OF THE BLOCK STRUCTURE OF CURVED ALUMINUM SINGLE CRYSTALS 67-12 M13-83362
EXAMINATION OF POLYGONIZATION SUBSTRUCTURES BY X-RAY MICROGRAPHY 67-12 M13-83519
ROWS OF DISLOCATION LOOPS IN ALUMINIUM IRRADIATED BY ALUMINIUM IONS 67-12 M16-82220

ALUMINUM, CRYSTALLIZATION

ACICULAR CRYSTALLIZATION IN CONTINUOUS CAST ALUMINUM 67-08 M13-75216

ALUMINUM, CUTTING

ACTION OF GASEOUS ENVIRONMENT IN METAL CUTTING--SURFACE ROUGHNESS AND TOOL FORCES WHEN MACHINING WITH OXYGEN JET 67-01 M08-57590
GAS-ELECTRIC CUTTING OF STAINLESS STEEL IN AMMONIUM 67-08 M08-74378
CONTACT ARC FLASH CUTTING OF FERROUS AND NONFERROUS ALLOYS 67-08 M11-75417
PLASMA ARC CUTTING 67-09 M07-77914
HIGH QUALITY PLASMA ARC CUTTING AND PIERCING 67-11 M08-80408
ARC CUTTING OF FERROUS AND NON-FERROUS METALS WITH A ROTATING DISC ELECTRODE 67-12 M11-82038

ALUMINUM, DEOXIDIZERS

THE FEASIBILITY OF REDUCING THE HARMFUL EFFECT OF PHOSPHORUS ON PROPERTIES OF G13L STEEL 67-02 M17-61743
EFFECTS OF ALUMINUM ON THE PROPERTIES AND QUALITY OF GRADE 25L CONVERTER AND ACID ELECTRIC FURNACE STEEL 67-04 M04-67862
BEHAVIOR OF DEOXIDATION PRODUCTS IN THE DEOXIDATION OF STEEL WITH ALUMINUM. PT. 1. INVESTIGATION INTO THE BEHAVIOR OF DEOXIDATION PRODUCTS IN IRON AND STEEL 67-06 M04-72210
BEHAVIOR OF NONMETALLIC INCLUSIONS DURING ROLLING OF STEEL DEOXIDIZED WITH THE COMBINATIONS MN-AL AND SI-AL. PT. 5. DEFORMATION OF INCLUSIONS IN STEEL DURING ROLLING 67-06 M04-72211
THE RATE OF DEOXIDATION OF STEEL BY ALUMINUM. PT. 3. KINETIC RESEARCHES INTO THE DEOXIDATION OF STEEL 67-06 M04-72218
PRIMARY INCLUSIONS FROM THE DEOXIDATION OF STEEL WITH SILICON AND ALUMINUM. PT. 1. KINETIC RESEARCHES ON STEEL DEOXIDATION 67-07 M04-72499
EFFECT OF THE AMOUNT OF ALUMINUM ADDED FOR DEOXIDATION ON THE QUANTITY OF NONMETALLIC INCLUSIONS IN KILLED STEELS 67-07 M04-72701
ADDITIONS OF ALUMINIUM FOR DEOXIDATION OF STEEL 67-08 M04-74383
NORMS OF THE CONSUMPTION OF ALUMINUM FOR DEOXIDIZING CARBON STEEL 67-08 M04-75188

ALUMINUM, DEPOSITION

POROUS BODIES OF TANTALUM, NIOBIUM, AND ALUMINUM FABRICATED BY METAL SPRAY PROCESSES 67-11 M12-80840

ALUMINUM, DIFFUSION

DIFFUSION OF IRON IN SOME MOLTEN NONFERROUS METALS 67-01 M14-57515
DETERMINATION OF DIFFUSION COEFFICIENTS IN METALS BY A RESISTOMETRIC METHOD--APPLICATION TO THE DIFFUSION OF ZN IN AL 67-01 M14-57561
REACTION DIFFUSION OF IRON IN ALUMINUM 67-01 M14-58047
STUDY OF COMPATIBILITY IN THE SYSTEMS ZIRCALOY-2/ALUMINUM, ZIRCALOY-2/COPPER AND ZIRCALOY-2/NICKEL 67-02 M14-58923
FORMATION OF THE ALLOY LAYER IN THE FE-AL DIFFUSION COUPLES 67-02 M14-60154
A SIMPLE EVALUATION OF GRAIN BOUNDARY DIFFUSION IN LIQUID METAL EMBRITTLEMENT 67-04 M14-66273
THERMAL DIFFUSION OF VACANCIES IN ALUMINUM 67-06 M14-70412
THE IMPORTANCE OF LOW-ANGLE BOUNDARIES IN DIFFUSION ON THE DIFFUSION OF ALUMINUM INTO SILICON 67-06 M14-71105
67-06 M14-71695

INSOLUBILITY AND DISLOCATION DIFFUSION IN METALS
67-06 M14-72229
DIFFUSION OF HYDROGEN IN ALUMINUM
67-09 M14-78253
DIFFUSION OF ALUMINUM IN THE BINARY IRON-BRONZE SYSTEM 67-10 M14-78368
SPECIAL PROTECTION OF HIGHLY HEAT-RESISTANT MATERIALS 67-10 M14-79683
SPECIAL PROTECTION OF HIGHLY-HEAT RESISTANT MATERIALS 67-11 M18-80698
DIFFUSION OF MOLYBDENUM IN ALUMINUM
67-12 M14-82378
NMR MEASUREMENT OF THE DIFFUSION COEFFICIENT OF PURE ALUMINUM 67-12 M14-83016
IONIC DIFFUSION AT THE ALUMINUM-ALUMINUM OCIDE INTERFACE 67-12 M14-83259

ALUMINUM, DISLOCATIONS
CONTINUOUS OBSERVATION OF CELL FORMATION IN ALUMINUM WITH A 500 KV ELECTRON MICROSCOPE
67-02 M13-59062
ELECTRON MICROSCOPIC OBSERVATION ON THE INTERACTION BETWEEN OXIDE PARTICLES AND DISLOCATIONS IN ALUMINUM AND MAGNESIUM 67-02 M13-60155

ALUMINUM, DROSSING
DROSS FORMATION IN ALUMINUM AND ALUMINUM ALLOY MELTS IN RELATION TO THE OXYGEN SUPPLY
67-04 M03-67063

ALUMINUM, ELECTRICAL PROPERTIES
QUENCHING OF VACANCIES IN PURE ALUMINIUM AND IN DILUTE ALUMINIUM-INDIUM AND ALUMINIUM-MAGNESIUM ALLOYS 67-01 M15-57478
THE ELECTRICAL RESISTANCE OF SILVER, COPPER, ALUMINUM, ZINC AND SODIUM BETWEEN 4 AND 298 K. DEPENDS ON THE IMPURITIES 67-02 M15-59906
ORIENTATION DEPENDENCY OF A RESISTANCE INCREASE CAUSED BY ALPHA IRRADIATION 67-02 M15-59910
HIGH RESISTANCE ANODIC OXIDE FILMS ON ALUMINIUM
67-02 M15-61106
STORED ENERGY, VOLUME, AND RESISTIVITY CHANGE IN NEUTRON IRRADIATED ALUMINIUM 67-02 M15-61515
THE TEMPERATURE AND FIELD DEPENDENCE OF THE GALVANOMAGNETIC PROPERTIES OF ALUMINUM AND INDIUM
67-03 M15-65366
CONTRIBUTION OF THE ELECTON-PHONON INTERACTION TO THE EFFECTIVE MASS, SUPERCONDUCTING TRANSITION TEMPERATURE, AND THE RESISTIVITY IN ALUMINIUM
67-03 M16-65720
ELECTRICAL PROPERTIES OF COPPER-ALUMINUM JOINTS MADE BY ARGON ARC WELDING 67-04 M15-66439
TECHNICAL AND ECONOMIC COMPARISON BETWEEN ALUMINUM ALLOY CONDUCTOR AND ACSR 67-04 M15-68028
AN EXPERIMENTAL DETERMINATION OF ELECTRICAL RESISTIVITY OF DISLOCATIONS IN DEFORMED ALUMINUM
67-04 M15-68168
TEMPERATURE DEPENDENCE OF THE ELECTRICAL RESISTIVITY OF ALUMINIUM FILMS
67-05 M15-68748
THE CHANGE IN ELECTRICAL RESISTANCE OF METALS DURING MULTIPLE QUENCHING 67-06 M15-70591
THE CHANGE IN ELECTRICAL RESISTIVITY WITH PLASTIC DEFORMATION OF ALUMINUM AND NICKEL
67-06 M15-71972
INFLUENCE OF PLASTIC DEFORMATION ON THE IDEAL ELECTRICAL AND THERMAL RESISTANCES OF COPPER AND ALUMINIUM 67-06 M15-72259
ANOMALOUS ELECTROMAGNETIC MICROWAVE ABSORPTION OF SUPERCONDUCTING ALLOYS IN A STATIC MAGNETIC FIELD
67-06 M16-71994
THE ELECTRICAL PROPERTIES OF TIG WELDED JOINTS BETWEEN COPPER AND ALUMINIUM 67-07 M15-72698
THE THEORY OF ELECTRICAL RESISTIVITY OF POLYVALENT METALS 67-07 M15-72947
RECOVERY OF THE ELECTRICAL RESISTIVITY OF PURE METALS AFTER SHORT IRRADIATION WITH NEUTRONS INSIDE A REACTOR 67-08 M15-75644
ELECTRICAL AND ELECTRONIC APPLICATIONS
67-08 M20-74834
CALCULATING THE RESISTANCE OF ALUMINUM
67-09 M15-77780
POTENTIAL OF ALUMINUM IN AQUEOUS CHLORIDE SOLUTIONS
67-09 M15-77891
THE INFLUENCE OF THE SIZE EFFECT ON ELECTRICAL RESISTIVITY MEASUREMENTS IN IRRADIATED METALS
67-10 M15-79019
RADIATION DAMAGE IN THIN METAL FILMS AT 4.2 K
67-10 M15-79406
ELECTRON IRRADIATION OF PURE AND ALLOYED ALUMINUM ABOVE STAGE I 67-11 M16-80780
ANOMALOUS ELECTRIC CONDUCTION PHENOMENA OF THIN ALUMINUM OXIDE FILMS IN VACUUM
67-12 M15-83547

ALUMINUM, ELECTRODES
ELECTROCHEMICAL STUDIES ON COPPER ALLOYS IN STAGNANT AND MOVING 3 PER CENT NACL AQUEOUS SOLUTIONS CONTAINING HYDROGEN SULFIDE
67-01 M18-58334

ALUMINUM, ELECTROLYSIS
COMMERCIAL TESTING OF ADDITIONS OF LITHIUM HYDROXIDE TO AN ALUMINUM ELECTROLYZER ELECTROLYTE WHICH CONTAINS SODIUM CHLORIDE AND MAGNESIUM FLUORIDE 67-02 M03-61281
EFFECT OF VARIOUS FACTORS ON THE CONTINUOUS OSCILLATION OF THE WORKING VOLTAGE OF A COMMERCIAL ALUMINUM BATH 67-02 M03-62048
SINTERING AND PREBAKING OF ELECTRODE CHARGE
67-02 M03-62053
DETERMINING THE RELATIONSHIP BETWEEN ALUMINUM ELECTROLYZER HEAT LOSSES AND MELT TEMPERATURE
67-02 M15-60958
IMPROVING THE UTILIZATION OF THE PRODUCTION CAPACITY OF ELECTROLYSIS SHOPS OF ALUMINUM WORKS
67-03 M03-65595
UNDULATION OF MOLTEN METAL IN ALUMINUM ELECTROLYSIS TANKS 67-04 M03-67527
STABILITY OF SOME REFRACTORY MATERIALS IN CRYOLITE-ALUMINA MELTS 67-05 M03-68959
STUDY OF THE PROCESS OF DEGASSING CARBON BLACK-PITCH COMPOSITIONS DURING ROASTING
67-05 M03-69536
ELECTRICAL RESISTANCE OF THE SHAFT-ANODE CONTACT AND VOLTAGE LOSS IN SELF-BAKING ANODES
67-06 M03-71308
INDUSTRIAL TESTS ON THE USE OF LISTVYANSK ANTHRACITE TO LINE HEARTHS OF ALUMINUM ELECTROLYZERS 67-06 M03-71353
EFFECT OF FERROMAGNETIC CONSTRUCTION ELEMENTS ON THE MAGNETIC FIELD IN THE MELTING ZONE OF LARGE ALUMINUM-ELECTROLYSIS CELLS 67-07 M03-72783
INFLUENCE OF CURRENT INSTABILITY IN A SERIES ON THE PERFORMANCE OF ALUMINUM ELECTROLYTIC CELLS
67-07 M03-73416
THE DETERMINATION OF OPTIMUM CURRENT INTENSITIES FOR BITTERFELD ELECTROLYTIC CELLS
67-08 M03-74355
LITHIUM FLUROIDE-A NECEŞSARY ELECTROLYTE COMPONENET OF ALUMINUM CELLS 67-08 M03-75092
DEGREE OF COKE CALCINATION IN MANUFACTURE OF ANODE MATERIAL 67-08 M03-75093
DEPENDENCE OF THE QUALITY OF THE ANODE OF AN ALUMINUM ELECTROLYTIC CELL ON THE NUMBER AND DIAMETER OF PINS 67-08 M03-75206
HYDRODYNAMIC CONDITIONS AND THEIR INFLUENCE ON GAS CONTENT AND CONDUCTIVITY OF ALUMINUM ELECTROLYTE
67-08 M03-75207
TESTING NEW MATERIALS FOR CATHODE LEADS OF ALUMINUM ELECTROLYTIC CELLS 67-08 M03-75209
ANALYSIS OF THE CONDITIONS RESULTING IN THE PRESENCE OF SODIUM IMPURITY IN CATHODIC ALUMINUM
67-08 M03-76239
PURIFICATION OF GAS FROM ALUMINUM ELECTROLYTIC CELLS 67-09 M03-76822
AUTOMATIC CONTROL OF AN ALUMINUM ELECTROLYZER
67-09 M03-76867
CRUST BREAKER FOR LATERALLY SUPPLIED ALUMINUM ELECTROLYZERS 67-09 M03-76868
CONTACT CLAMP FOR SIMULTANEOUS TIGHTENING OF TWO TOP-SUPPLIED ALUMINUM ELECTROLYZER PINS
67-09 M03-76869

ALUMINUM, ELECTROWINNING
THEORETICALLY PROBABLE REACTIONS AT THE ANODE OF THE ALUMINIUM ELECTROLYTIC CELL
67-02 M03-58873
STUDY OF CERTAIN PHYSICO CHEMICAL PROPERTIES OF FUSED FLUORIDE-CHLORIDE SYSTEMS
67-02 M03-59855
INTERACTION BETWEEN MOLTEN ALUMINUM AND ELECTROLYTE CONTAINING NACL AND MGF2
67-02 M03-61548

ALUMINUM, EMISSION
EXO-ELECTRONIC EMISSION OF STRAINED ALUMINUM AND D16 ALLOY 67-06 M16-72118

ALUMINUM, EXTRACTION
REYNOLDS EXPANDS PACIFIC NORTHWEST PRODUCTION
67-02 M03-61592
INTALCO--HIGHLY EFFICIENT PRODUCER
67-02 M03-61593
CONSUMPTION OF ANODE MASS IN ELECTROLYSIS OF ALUMINUM 67-02 M03-61612

ALUMINUM

EFFECT OF ADDITIONS OF NACL INTO THE ELECTROLYTE OF ALUMINUM BATHS ON ANODE CONSUMPTION AND COMPOSITION OF ANODE GASES 67-02 M03-61718
ALUMINIUM REDUCTION WORKS IN WASHINGTON 67-03 M03-65717
CURRENT EFFICIENCY IN ALUMINA ELECTROLYSIS 67-06 M03-70917
MECHANISM OF ALUMINUM LOSS IN CRYOLITE-ALUMINA MELTS 67-06 M03-70929
RECOVERY OF BERYLLIUM FROM ACID LEACHES OF BERYL BY SOLVENT EXTRACTION 67-07 M03-74297
DTERMINING THE MOLAR RATIO OF NAP..AlF3, IN ELECTROLYTES OF ALUMINUM ELECTROLYZERS CONTAINING MAGNESIUM CHOLORIDE 67-08 M03-75091
THE LOSS RATE OF ALUMINUM IN CRYOLITE-ALUMINA MELTS 67-08 M03-76241
COMPLEX PROCESSING OF ALUMINOUS IRON ORES 67-08 M04-75144
THE THEORY AND PRACTICE OF MOLTEN FLUX ELECTROLYSIS OF ALUMINUM 67-09 M03-77029
INFLUENCE OF ATMOSPHERIC TEMPERATURE ON PERFORMANCE OF LARGE-CAPACITY ALUMINUM ELECTROLYTIC CELLS 67-11 M03-80753
ELECTROMOTIVE FORCE OF POLARIZATION AND ACTIVITY OF ALUMINUM IN THE ELECTROLYSIS OF CRYOLITE-ALUMINA MELTS 67-11 M03-81155
MACHINE FOR DRIVING IN ANODE SHAFTS OF ALUMINUM ELECTROLYTIC CELLS WITH LATERAL CURRENT SUPPLY 67-11 M03-81219
ALUMINUM ELECTROLYSIS. --HIGH-DUTY ALUMINUM ELECTROLYTIC CELLS WITH UPPER CURRENT SUPPLY-- 67-11 M03-81226
PRODUCTION OF NEW TYPES OF CARBON RAW MATERIAL FOR ALUMINUM AND ELECTRODE INDUSTRY 67-11 M03-81435
INVESTIGATION OF THE RATE OF ALUMINUM LOSS IN A CRYOLITE-ALUMINA MELT 67-11 M03-81509
GO DIRECTLY TO ALUMINUM 67-12 M02-81896
CHEMICAL ENGINEERING OPERATIONS IN THE PRODUCTION OF ALUMINA 67-12 M02-83078
THE BOWING OF THE METAL SURFACE IN ALUMINIUM ELECTROLYSIS FURNACES 67-12 M03-81967
POWER FOR ALUMINIUM PRODUCTION--MODERNIZATION OF A RECTIFIER INSTALLATION IN SPAIN 67-12 M03-82070
INFLUENCE OF ELECTROLYTE ADSORPTION ON PHYSICAL AND CHEMICAL PROPERTIES OF CARBON BLOCKS 67-12 M03-83021
SOME PROBLEMS IN ALUMINIUM REDUCTION FURNACE DESIGN 67-12 M03-83079
PREPARATION OF AMORPHOUS ALUMINUM PRECIPITATES 67-12 M03-83159
WETTABILITIES OF GRAPHITE MATERIALS BY MELTS OF THE SYSTEM, NA3ALF6-ALF-MGCL2, AND THEIR ELECTRICAL CONDUCTIVITIES 67-12 M03-83458

ALUMINUM, EXTRUSION

PRODUCTION OF THIN-WALLED TUBES OF RECTANGULAR SECTION DIRECTLY FROM THE MELT 67-01 M07-58199
SOME EXPERIMENTS AND DYNAMIC CONSIDERATIONS ON IMPACT EXTRUSION 67-02 M07-60998
FABRICATION OF VARIOUS TYPES OF AEROSOLS 67-02 M08-59819
MEASUREMENT OF ALUMINIUM EXTRUSION TEMPERATURES--COLLABORATIVE WORKS TRIALS OF A COMMERCIAL LEAD SULPHIDE-CELL INSTRUMENT 67-02 M08-61292
A PYROMETER FOR THE CONTINUOUS MEASUREMENT OF THE TEMPERATURE OF ALUMINIUM EXTRUSIONS 67-02 M08-61293
DETERMINING THE HIGHEST DEGREE OF DEFORMATION DURING REDUCTION OF HOLLOW CYLINDRICAL BILLETS IN A TAPERED DIE 67-04 M08-67040
EXPERIMENTS IN METAL WORKING USING HIGH AND LOW EXPLOSIVE CHARGES 67-05 M07-69160
THE HIGH-SPEED EXTRUSION OF SOME COMMON METALS 67-05 M08-68719
THE GRADATION OF DEFORMATION IN EXTRUDING CABLE SHEATHS AND ITS EFFECT ON EXTRUSION FORCES 67-06 M07-72126
EXTRUSION OF ALUMINUM TUBES AND SECTIONS 67-07 M07-73620
SINGLE EXTRUSION SERVES MANY NEEDS 67-07 M07-73963
HIGH SPEED IMPACT EXTRUSION OF METALS 67-07 M07-74090
NEW PRESS EXTRUDES BIG, CLOSE TOLERANCE SHAPES FOR OIL, CHEMICAL, POWER INDUSTRIES 67-08 M07-74731
HYDROMECHANICAL EXTRUSION OF THIN-WALLED TUBES 67-08 M07-75479
PRESSING METALS WITH INDEPENDENTLY MOVING DIES 67-08 M07-76244
RECOVERY AND RECRYSTALLIZATION OF ALUMINIUM DURING EXTRUSION 67-08 M14-75136
A NUMERICAL ANALYSIS OF TEMPERATURE DISTRIBUTION IN EXTRUSION 67-10 M07-78448
DETERMINING FORCES IN COLD DIRECT EXTRUSION, REDUCTION AND SIZING OF CONTINUOUS AND HOLLOW PIECES 67-12 M08-82061

ALUMINUM; EXTRUSIONS

TWO SIMPLE ALUMINUM EXTRUSIONS SOLVE EXPANSION JOINT PROBLEM 67-09 M20-78169

ALUMINUM, FERMI SURFACE

EFFECT OF HIGH PRESSURE ON THE FERMI SURFACE OF ALUMINUM 67-03 M16-65029

ALUMINUM, FIBER METALLURGY

A THEORY OF FIBER STRENGTHENING 67-02 M17-60630
SILICA FIBER REINFORCED ALUMINUM 67-04 M17-67736
ON THE STRENGTH OF AL-RICH AL-AG SOLID SOLUTION WHICH CAUSED THE DIFFERENCE IN THE CONCENTRATION DISTRIBUTION OF THE SOLUTE ATOM 67-05 M14-69852
BORON ALUMINUM COMPOSITE FABRICATED BY PLASMA SPRAYING 67-07 M09-73358
STRENGTHENING OF ALUMINUM BY FIBER 67-09 M09-78233
RECENT ADVANCES IN COMPOSITE TECHNOLOGY 67-12 M14-82045
THE EFFECT OF FIBER ORIENTATION AND MORPHOLOGY ON THE TENSILE BEHAVIOR OF AL3NI WHISKER REINFORCED ALUMINUM 67-12 M17-82129
THE EFFECT OF ELEVATED-TEMPERATURE EXPOSURE ON THE MICROSTRUCTURE AND TENSILE STRENGTH OF AL3NI WHISKER-REINFORCED ALUMINUM 67-12 M17-82861

ALUMINUM, FILMS

MICROFRACTOGRAPHY OF THIN FILMS 67-01 M13-57555

ALUMINUM, FORGING

DISTRIBUTION OF DEFORMATION ALONG THE HEIGHT OF THE TESTPIECE WHEN UPSETTING IT UNDER ULTRASONIC VIBRATIONS 67-06 M08-70116
FORGING 67-08 M07-74842
RESISTANCE TO DEFORMATION AND DEFORMATION EFFICIENCY IN UPSETTING. PT. 1 67-10 M07-79975
DEFORMATION RESISTANCE AND DEFORMATION EFFICIENCY IN UPSETTING 67-11 M07-80844

ALUMINUM, FORMING

PRODUCING THIN-WALLED PIECES FROM MELT WITH AIR-BLOWING 67-02 M03-61561
IMPROVED EFFICIENCY IN WIREDRAWING WITH ULTRASOUND 67-04 M08-66923
A SURVEY OF H. E. R. FORMING 67-05 M08-69736
ELECTROHYDRAULIC FORMING 67-05 M08-69738
THE COOKSON METHOD OF COLD ROLL-FORMING 67-06 M08-72049
INDUSTRY SHOWS RENEWED INTEREST IN STRETCH-PRESS FORMING 67-08 M08-74734
FORMING PLATE, SHEET AND FOIL 67-08 M08-74843

ALUMINUM, GRAIN BOUNDARIES

GRAIN BOUNDARY RELAXATION IN FOUR HIGH-PURITY FCC METALS 67-06 M13-71607

ALUMINUM, GRAIN GROWTH

INFLUENCES OF CARBIDES ON THE PROPERTIES OF ALUMINUM AND ITS ALLOYS. PT. 1. EFFECTS OF TIC, TIC-WC, TAC-WC AND WC ON REFINING OF THE GRAIN SIZE OF PURE ALUMINUM 67-08 M14-75372
ORIENTATION RELATIONSHIPS BETWEEN THE ROLLING AND RECRYSTALLIZATION TEXTURE OF ALUMINUM 67-09 M14-76796

ALUMINUM, GRAIN STRUCTURE

DISCUSSION OF DYNAMIC RECOVERY DURING HOT WORKING 67-06 M13-71978

ALUMINUM, HEAT TREATMENT

NEW METHOD FOR THE THERMAL TREATMENT OF ALUMINUM STRIP. PT. 2. 67-02 M10-59974
INFLUENCE OF HOMOGENIZING ON PROPERTIES AND STRUCTURE OF COMMERCIAL ALUMINUM INGOTS 67-02 M14-59766
GAS SPEEDS ALUMINUM ANNEALING 67-04 M10-66130
TESTING COMMERCIAL LUBRICANTS FOR TENDENCY TOWARDS CARBON FORMATION DURING ANNEALING OF ALUMINUM SHEETS 67-04 M10-66979
CONTINUUM PLASTICITY THEORY IN RELATION TO SOLID SOLUTION, DISPERSION AND PRECIPITATION HARDENING 67-06 M10-71715

THE MECHANISM OF HARDENING IN QUENCHED ALUMINUM
67-06 M14-70417
HEAT TREATING-P/M PARTS AND EXTRUSIONS
67-07 M10-73962
HEAT TREATING ALUMINUM CASTINGS
67-08 M10-75747
INFLUENCE OF HOMOGENIZING ON THE STRUCTURE AND PROPERTIES OF TECHNICAL ALUMINUM
67-08 M10-76124
SEMICONTINUOUS COIL ANNEALING FURNACES INCREASE ALUMINUM OUTPUT AND SURFACE QUALITY
67-08 M10-76176
EFFECTS AND TECHNOLOGY OF THE QUENCHING OF HARDENABLE LIGHT-METAL SEMIPRODUCTS. PT. 1
67-10 M10-79386
VARIATION OF INTERNAL FRICTION VALUES DURING AGING OF QUENCHED AL --99.995 PER CENT PURITY--
67-12 M17-82712

ALUMINUM, IMPURITIES
THE COMPOSITION OF NONMETALLIC INCLUSIONS IN ALUMINUM-ALLOYED STEELS 67-06 M13-70272

ALUMINUM, INTERMETALLICS
SUPERCONDUCTIVITY DEGRADATION IN BETA-TUNGSTEN STRUCTURE COMPOUNDS-NB3SN--CB3SN AND NB3AL
67-01 M16-57408
MAGNETIC PROPERTIES OF DYAL2 AND NDAL2
67-02 M15-61837
IRRADIATION OF HEUSLER ALLOYS 67-02 M16-61116
THE DEFORMATION PROPERTIES AND ELECTRON MICROSCOPY STUDIES OF THE INTERMETALLIC COMPOUND NIAL
67-02 M17-58963
THE OPERATIVE SLIP SYSTEM AND GENERAL PLASTICITY OF NIAL. PT. 2 67-02 M17-60640
THE REFLECTANCE OF THE INTERMETALLIC COMPOUNDS NIAL AND COAL 67-03 M15-65640
OXIDE DISPERSION-STRENGTHENED NIAL AND FEAL
67-04 M17-66933
ELEVATED-TEMPERATURE DEFORMATION MECHANISMS IN BETA PRIME-NIAL 67-04 M17-66939
ANTIPHASE STRUCTURE OF THE ALLOY FE3AL
67-05 M13-69335
AN ANALYSIS OF LATTICE VIBRATIONS OF ORDERED FE3AL
67-05 M14-69577
MAGNETIC HYPERFINE STRUCTURE OF THE GD155 LEVELS IN METALLIC GADOLINIUM AND IN THE INTERMETALLIC COMPOUND GDAL2 67-05 M16-69028
LATTICE INSTABILITY OF HIGH-TRANSITION-TEMPERATURE SUPERCONDUCTORS. PT. 1. POLYCRYSTALLINE A-15 COMPOUNDS 67-05 M16-69516
NMR STUDY OF TWO ENERGY GAPS IN SUPERCONDUCTING COMPOUNDS 67-05 M16-69767
THE CRYSTAL STRUCTURE OF MOALB 67-06 M13-70455
PHASE DECOMPOSITION IN NEAR NI3AL ALLOYS
67-06 M14-69941
IMPROVEMENT OF HEAT-RESISTING COBALT-BASE ALLOYS BY PRECIPITATION HARDENING 67-06 M14-70597
MOSSBAUER EFFECT STUDY OF BCC STRUCTURE ALLOYS, FEAL AND FETI 67-06 M15-70418
FERROMAGNETISM IN THE INTERMETALLIC PHASE NI3AL
67-06 M15-71993
THE THERMAL CONDUCTIVITY OF GAP AND ALSB
67-07 M15-72750
STUDY OF THE EFFECT OF MAGNETIC ORDERING ON THE ELECTRICAL RESISTIVITY OF GDAL2
67-07 M15-73314
MAGNETIC PROPERTIES OF PRAL2 67-07 M15-73588
THE REFINEMENT OF THE STRUCTURES OF THE INTERMETALLIC PHASES REAL6 AND TCAL6
67-08 M13-76137
OBSERVATION OF A MARTENSITIC TRANSFORMATION IN THE COMPOUND NIAL 67-08 M14-75581
MOSSBAUER EFFECT STUDY OF FERROMAGNETISM AND FERROMAGNETIC RELAXATION IN ERAL2
67-08 M16-74471
STRENGTH OF THE S-F EXCHANGE INTERACTION IN RARE-EARTH INTERMETALLICS 67-08 M16-75006
THE CRYSTAL STRUCTURE OF HEXAGONAL RH2AL3
67-09 M13-76383
NUCLEAR MAGNETIC RESONANCE IN RARE-EARTH-ALUMINUM INTERMETALLIC COMPOUNDS.. RAL3
67-09 M16-77019
X-RAY STUDIES IN THE SYSTEM THNI5-XALX
67-10 M13-78670
THE CRYSTAL STRUCTURE OF THE CEAL COMPOUND
67-10 M13-79588
OPTICAL PROPERTIES OF THE INTERMETALLIC COMPOUNDS AUAL2, AUGA2 AND AUIN2 67-10 M15-78907
STUDY OF THERMAL EXPANSION OF ALLOYS OF THE NI3AL-NI3NB SYSTEM 67-10 M15-79833
THE CRYSTAL STRUCTURE OF THE M PHASE, NB-NI-AL
67-11 M13-80489
A NEW SYNTHESIS OF 6-METHYL-3-PYRIDINOL
67-11 M14-80705
RECOVERY PROCESSES AND ORDERING IN NI3AL
67-12 M14-83262
TEMPERATURE AND ORIENTATION DEPENDENCE OF THE FLOW STRESS IN OFF-STOICHIOMETRIC NI3AL --GAMMA PHASE--
67-12 M17-82719

ALUMINUM, IRRADIATION
THE IDENTIFICATION OF SMALL QUANTITIES OF MATERIAL BY EXO ELECTRONS 67-06 M19-72143
MEASUREMENT OF ABSORPTION OF FAST ELECTRONS IN SINGLE CRYSTAL FILMS OF ALUMINIUM
67-07 M16-73144
STUDY OF THE EFFECT OF PROTON BOMBARDMENT ON OPTICAL CONSTANTS OF THIN METALLIC LAYERS
67-10 M16-79453
EXCITATION FUNCTIONS AND ANGULAR DISTRIBUTIONS OF MULTINUKLEON TRANSFER REACTIONS IN THE INTERACTION BETWEEN COMPLEX NUCLEI
67-10 M16-80004
EFFECTS OF VARIOUS DOPING TREATMENTS UPON THE DAMAGE PRODUCTION AND RECOVERY OF DEUTERON-IRRADIATED ALUMINUM 67-11 M16-81392
INFLUENCE OF THE NATURE OF ADDITION ELEMENTS ON ELIMINATION OF DEFECTS IN ALUMINUM SUBJECTED TO NEUTRON IRRADIATION AT 78 K 67-11 M16-81562
THE MOBILITY OF TRITIUM IN SILVER AND ALUMINUM AFTER ION BOMBARDMENT 67-12 M16-82057
RECOVERY OF ELECTRON-IRRADIATED ALUMINUM AND ALUMINUM ALLOYS. PT. 1. STAGE 1
67-12 M16-82529

ALUMINUM, JOINING
THE BOLTING OF ALUMINIUM 67-01 M11-58298
ADHESIVE BONDING OF ALUMINIUM STRUCTURAL COMPONENTS--PRACTICE AT HOME AND ABROAD. PT. 2
67-01 M11-58300
THE BOLTING OF AL 67-04 M11-67066
FRAMES MADE FROM ALUMINUM SECTIONS BY GLUEING
67-08 M11-75607
ADHESIVE BONDING ALCOA ALUMINUM
67-09 M11-78035

ALUMINUM, MACHINING
ULTRASONIC ASSISTANCE TO CONVENTIONAL METAL REMOVAL 67-01 M08-58519
WHERE OFFHAND DOESNT MEAN CARELESS
67-02 M08-61133
ELECTROCHEMICAL MACHINING--PREDICTION AND CORRELATION OF PROCESS VARIABLES
67-03 M08-65941
TOUGH, TEMPERAMENTAL TITANIUM TAMED
67-05 M08-68421
HONEYCOMB AND PLASTIC--NEW TREND IN MASTER MODELS
67-05 M08-68660
NC PROFILING MADE FAIL-SAFE 67-05 M20-68436
SPECIAL TOOLS AND FACILITIES CARVE F-111 HONEYCOMB PARTS 67-06 M08-71037
ON THE CUT-OFF TURNING TEST OF AL BAR
67-06 M08-71216
WEAR AND LIFE OF TOOL FOR ROLLING INTERNAL THREADS
67-07 M08-74291
DIAMOND TURNING FOR BIG SAVINGS ON LARGE ALUMINUM PARTS 67-10 M08-79201
THE ELYSIR METHOD--ELECTROCHEMICAL MACHINING
67-10 M08-79959
GAS ELECTRIC CUTTING OF STAINLESS STEEL AND ALUMINIUM IN AMMONIA 67-12 M08-82251
DYNAMIC CHIP BREAKING. CAN IT OVERCOME THE SURFACE FINISH PROBLEM 67-12 M08-82953
PLASMA-ARC CUTTING OF METALS USING MIXED GAS
67-12 M08-83180

ALUMINUM, MACROSTRUCTURE
ON THE EXISTENCE OF A DENDRITE SHOWER
67-04 M13-67536
FORMATION OF CRYSTAL STRUCTURES IN PURE AL
67-05 M06-68887

ALUMINUM, MAGNETIC PROPERTIES
MAGNETOACOUSTIC ATTENUATION OF CIRCULARLY POLARIZED ULTRASOUND IN SN, AL, AND SB
67-02 M15-60767
VANISHING KNIGHT SHIFT IN SUPERCONDUCTING ALUMINUM
67-04 M16-67732
LONGITUDINAL MAGNETOACOUSTIC EFFECT IN ALUMINUM
67-07 M16-73941

ALUMINUM, MEASUREMENT
MEASUREMENT OF SURFACE QUALITY OF ALUMINUM SHEET BY OPTICAL REFLECTION 67-04 M19-67065

ALUMINUM, MECHANICAL PROPERTIES

TITANIUM FIXTURES--THEIR CONSTRUCTION AND USE 67-01 M01-58122
MECHANICAL PROPERTIES OF RAPIDLY STRETCHED ALUMINUM AND ALUMINUM-MAGNESIUM ALLOYS 67-01 M17-57519
CREEP RUPTURE STRENGTH OF NOTCHED ALUMINUM SPECIMENS 67-01 M17-57589
INVESTIGATION OF THE EFFECT OF ELECTRIC DISCHARGE MACHINING ON THE PROPERTIES AND STRUCTURE OF METALS 67-01 M17-58041
PRESS FORMABILITY OF 2S ALUMINUM AND PURE COPPER 67-01 M17-58331
INFLUENCE OF ULTRASONIC VIBRATION ON METALLIC FRICTION 67-01 M17-58560
FATIGUE BEHAVIOR OF ALUMINUM IN VACUUM 67-02 M17-58947
DRAW WIRE AND ROD OF ALUMINUM AND ITS ALLOYS FOR RIVET MANUFACTURE. SHAPE AND DIMENSIONS 67-02 M17-58993
THE INFLUENCE OF AGING ON THE HARDENING OF PURE ALUMINUM QUENCHED TO LOW TEMPERATURE 67-02 M17-59014
MECHANICAL BEHAVIOR OF ALUMINUM STRAINED WITH IMPACT LOADING 67-02 M17-59125
CONTROL OF RESIDUAL STRESSES IN HOLLOW ALUMINUM FORGINGS 67-02 M17-59457
THE RELATION BETWEEN THE STRENGTH AND THE CONDITIONS OF PREPARING CU AND AL VACUUM CONDENSATES 67-02 M17-59556
AMPLITUDE DEPENDENCE OF THE INTERNAL FRICTION AND MODULUS DEFECT IN ALUMINIUM. PT. 4. INVESTIGATION ON THE CRITICAL SHEAR STRESS 67-02 M17-59615
IDENTIFICATION OF THE MECHANISM OF METAL FRACTURES BY ELECTRON MICROFRACTOGRAPHY 67-02 M17-59715
CREEP OF ALUMINUM WITH FINELY LINED LAYER PHASE OF ALUMINUM OXIDE 67-02 M17-59746
FORMABILITY OF ALUMINUM SHEETS 67-02 M17-59748
INFLUENCE OF SMALL ADDITIONS OF CE, FE, NI AND CO ON MECHANICAL PROPERTIES AND ELECTRICAL CONDUCTIVITY OF ALUMINUM 67-02 M17-59770
WORK HARDENING CAUSED BY INTENSIVE ULTRASONIC TREATMENTS IN SINGLE CRYSTALS 67-02 M17-59911
INVESTIGATION OF AMPLITUDE DEPENDENCY AND THERMAL RECOVERY OF WORK HARDENING CAUSED BY ULTRASONIC TREATMENTS 67-02 M17-59912
EFFECT OF THE QUENCHING TEMPERATURE ON THE PROCESS OF PORE FORMATION DURING THERMAL CYCLING OF ALUMINUM 67-02 M17-59948
PROPERTIES AND FIELDS OF APPLICATION OF ALUMINUM FOIL 67-02 M17-60082
DEFORMATION OF ALUMINIUM SINGLE CRYSTALS AT HIGH STRAIN RATES 67-02 M17-60274
INFLUENCE OF SYNTHETIC COATINGS OF FATIGUE STRENGTH OF AVT1 ALUMINUM ALLOY TESTED IN AIR ATMOSPHERE 67-02 M17-60979
ON THE MACHINABILITY OF WROUGHT ALUMINUM AND ITS ALLOYS 67-02 M17-61026
THE MACHINABILITY OF ALUMINUM IN COMPARISON WITH OTHER METALS 67-02 M17-61027
INDENTATION HARDNESS AND THE CREEP OF SOLIDS 67-02 M17-61291
ON SECOND-ORDER STRAIN ACCUMULATION IN TORSION FATIGUE 67-02 M17-61295
STRUCTURAL CHANGES IN METALS DURING ALTERNATING PLASTIC DEFORMATION 67-02 M17-61675
TEMPERATURE-TIME DEPENDENCE OF THE STRENGTH OF ALUMINIUM UNDER STATIC AND PERIODIC LOADS 67-02 M17-61677
MODULUS OF RUPTURE OF ALUMINA-SILICA REFRACTORIES AT ELEVATED TEMPERATURES 67-03 M05-65763
THE CRITICAL SHEAR STRESS OF CUBIC CRYSTALS WITH DEFECT TETRAGONAL SYMMETRY 67-03 M17-65382
ON THE DIRECT MEASUREMENT OF VERY LARGE STRAIN AT HIGH STRAIN RATES 67-03 M17-65662
BACKGROUND INTERNAL FRICTION OF SOME PURE METALS AT LOW FREQUENCIES 67-03 M17-65881
ACTIVATION ENERGY OF THE TEMPERATURE BACKGROUND OF INTERNAL FRICTION 67-04 M17-66497
THE INFLUENCE OF STRAIN RATE AND STRAIN AGEING ON THE FLOW STRESS OF COMMERCIALLY-PURE ALUMINIUM 67-04 M17-66505
DISCONTINUOUS YIELDING OF COMMERCIALLY-PURE ALUMINIUM 67-04 M17-66506
DISLOCATION SUBSTRUCTURE AND EXTENSION OF FATIGUE LIFE IN METAL CRYSTALS 67-04 M17-66925
DEFORMATION RESISTANCE OF CERTAIN DUCTILE METALS IN DEFORMATION AT A HIGH RATE 67-04 M17-67155
THE CONFIGURATION OF IMPACT ENERGY-DEFLECTION DIAGRAMS 67-04 M17-67412
HIGH-SPEED DEEP DRAWABILITY OF THE PURE ALUMINUM SINGLE CRYSTALS 67-04 M17-67584
PLASTIC TORSION 67-04 M17-67611
QUENCH HARDENING IN PURE ALUMINUM 67-04 M17-68169
CRACK INITIATION IN POLYCRYSTALLINE ALUMINIUM FATIGUED AT LOW STRAIN 67-05 M17-68762
BLOCK DISORIENTATION AND THE LOW-TEMPERATURE STRENGTH OF ALUMINUM 67-05 M17-68842
STUDY OF THE RECOVERY OF AL TWISTED AT LOW TEMPERATURES 67-05 M17-68873
STUDY OF THE DEFORMATION OF GRAIN BOUNDARY REGION IN PURE AL BICRYSTALS 67-05 M17-68874
THE HIGH-TEMPERATURE STRENGTH AND STRUCTURE OF THE AL-ZN BINARY ALLOYS 67-05 M17-68881
FRICTION AND WEAR TESTING UNDER HIGH TEMPERATURE OF CAST AND OTHER METALS 67-05 M17-68953
THE EFFECT OF HIGH STRAIN RATE ON THE STRESS-STRAIN RELATIONSHIP OF ALUMINIUM 67-05 M17-69156
INFLUENCE OF REFORMING PROCESSES ON THE FRACTURE STRENGTH OF SOLIDS 67-05 M17-69215
AN INVESTIGATION INTO THE INFLUENCE OF EDGE SHAPE ON CRACKING DURING ROLLING 67-05 M17-69560
CRYOGENICS--APPLICATION OF AL ALLOYS, THEIR MECHANICAL PROPERTIES AND METHODS OF TESTING THEM 67-05 M17-69700
INTERNAL FRICTION MEASUREMENTS IN PLASTICALLY DEFORMED ALUMINUM AT CONSTANT VIBRATION AMPLITUDE 67-06 M17-69958
ESTABLISHING THE RELATIONSHIP BETWEEN THE TRUE STRAIN AND THE NECKING OF TENSILE TEST SPECIMENS 67-06 M17-70262
TEMPERATURE DEPENDENCE OF THE FATIGUE TRANSITION PRESSURE FOR ALUMINUM 67-06 M17-70443
ENERGY BALANCE CRITERIA IN DUCTILE FRACTURE 67-06 M17-70646
THE INFLUENCE OF THE TEMPERATURE CYCLE PARAMETERS ON THE PLASTIC DEFORMATION OF ALUMINIUM DURING THERMAL CYCLING 67-06 M17-71223
AN EXPERIMENTAL STUDY OF THE DOUBLE SLIP DEFORMATION HYPOTHESIS FOR FACE-CENTERED CUBIC SINGLE CRYSTALS 67-06 M17-71276
LATTICE STRAIN MEASUREMENTS ON DEFORMED FCC METALS 67-06 M17-71425
DEFORMATION OF ALUMINIUM AT HIGH TEMPERATURES AND STRAIN RATES 67-06 M17-71541
ON THE CALCULATION OF POLYCRYSTALLINE ELASTICITY CONSTANTS FROM SINGLE CRYSTAL DATA 67-06 M17-71669
AN EXPERIMENTAL INVESTIGATION OF ELASTIC-PLASTIC PULSE PROPAGATION IN ALUMINUM RODS 67-06 M17-71713
APPLICATION OF HIGH-PURITY AL IN THE DEVELOPMENT OF HIGH-STRENGTH AL-ZN-MG-CU ALLOYS 67-06 M17-71979
CHARACTERISTICS OF PLASTIC DEFORMATION OF AL SINGLE CRYSTALS IN THE 1.3 TO 4.2 K. TEMPERATURE RANGE 67-06 M17-72357
STUDY OF THE PROCESSES OF PLASTIC FORMING USING THE MOIRE METHOD 67-06 M19-70278
STRENGTH OF ALUMINUM WITH FINELY LINED LAYERS OF ALUMINUM OXIDE AT ROOM TEMPERATURE AND HIGH TEMPERATURE 67-07 M17-72517
RADIATION EFFECTS ON CREEP RUPTURE AND FATIGUE STRENGTH OF PURE ALUMINUM 67-07 M17-72685
PROPAGATION OF FINITE AMPLITUDE WAVES IN SINGLE CRYSTALS OF HIGH-PURITY ALUMINIUM 67-07 M17-73140
WORK HARDENING AND RECOVERY IN CREEP 67-07 M17-73499
THE DISTRIBUTION OF RESIDUAL STRESSES OF DEFORMED FACE CENTERED CUBIC METALS 67-07 M17-73850
COMPRESSIVE DEFORMATION AFFECTED BY SUPERIMPOSED ULTRASONIC VIBRATION 67-08 M17-74411
EXPERIMENTAL STUDIES ON FATIGUE MECHANISM IN PURE METALS AT ELEVATED TEMPERATURES 67-08 M17-74428
EFFECT OF PROGRAMMED LOADING ON FLOW STRESS OF METALS DURING CYCLICAL STRAINING 67-08 M17-74643
FUNDAMENTAL INVESTIGATION OF THE SLIDING FRICTION OF METALS WITH RADIOACTIVE TRACERS 67-08 M17-74921
A SPECIAL FEATURE OF METAL FLOW IN COOLING MEDIA CONSISTING OF LIQUIDS AND AIR 67-08 M17-75010

FREQUENCY DISLOCATION INTERNAL FRICTION PEAKS WITH ANOMALOUS AMPLITUDE EFFECT IN AL-3.1 PER CENT MG ALLOY 67-08 M17-75076
DISLOCATION DAMPING IN ALUMINUM AT HIGH STRAIN RATES 67-08 M17-75127
EFFECT OF GAMMA EXPOSURE ON MECHANICAL RELAXATION SPECTRUM OF ALUMINUM IN THE 150 TO 300K TEMPERATURE RANGE 67-08 M17-75274
MECHANICAL PROPERTIES OF PURE ALUMINUM WIRE. STUDIES ON FABRICATION OF ULTRA FINE WIRE OF ALUMINUM AND ALUMINUM ALLOYS. PT. 1 67-08 M17-75375
THE EFFECT OF STRAIN RATE ON THE FLOW STRESS OF COMMERCIAL PURITY ALUMINUM 67-08 M17-75477
THE VALIDITY OF THE ASSUMPTION OF PLANE STRAIN CONDITIONS IN PLASTIC DEFORMATION PROCESSES AND YIELD POINT PHENOMENA IN METALS AND ALLOYS 67-08 M17-75576
DEFORMATION OF POLYCRYSTALLINE ALUMINIUM AT HIGH STRAIN RATES 67-08 M17-75755
AN ESTIMATING METHOD OF THE DEEP DRAWABILITY OF ALUMINIUM SHEET 67-08 M17-75767
THE STRAIN-RATE DEPENDENCE OF THE FLOW STRESS IN SOME ALUMINUM ALLOYS 67-08 M17-75969
CYCLIC STRAIN-SOFTENING EFFECTS IN METALS 67-08 M17-75970
INFLUENCE OF SMALL AMOUNTS OF CERIUM, IRON, NICKEL, AND COBALT ON THE MECHANICAL PROPERTIES AND ELECTRICAL CONDUCTIVITY OF ALUMINUM 67-08 M17-76128
THE PRESS FORMABILITY OF ALUMINIUM AND ITS ALLOYS 67-09 M08-76680
PROPERTIES AND APPLICATIONS OF DISPERSION-STRENGTHENED METALS 67-09 M10-76723
INVESTIGATION OF THE PLASTIC SHOCK WAVE DEFORMATION IN AUSTENITIC SINGLE CRYSTALS 67-09 M17-77348
THE EFFECT OF VARYING STRAIN RATIO ON THE HYDRAULIC BULGING BEHAVIOUR OF ALUMINIUM SHEET 67-09 M17-77508
HIGH TEMPERATURE RELAXATION PEAKS IN COPPER AND ALUMINIUM 67-09 M17-77921
EXPERIMENTAL EVALUATION OF MATERIAL BEHAVIOR IN A WIRE UNDER TRANSVERSE IMPACT 67-09 M17-78102
UNIFYING THE PROPERTIES OF ALUMINUM FOIL BY CONTROL OF MANUFACTURING CONDITIONS 67-10 M17-78706
BEHAVIOR OF MATERIALS FOR CHEMICAL APPARATUS AT HIGHER TEMPERATURES 67-10 M17-79095
STRAIN HARDENING CRYSTALLINE SOLIDS BY PROGRAMMED LOADING 67-10 M17-79209
THE RELATIONSHIP BETWEEN METAL STRENGTH AND THE DISORIENTATION OF MOSAIC BLOCKS AND CRYSTALLITE SIZE 67-10 M17-79228
INVESTIGATION OF THE INFLUENCE OF NONCORROSIVE FLUIDS ON THE MECHANICAL PROPERTIES OF METALS IN STATIC AND DYNAMIC LOADING 67-10 M17-79484
MEASURING CREEP IN TRANSMISSION LINES 67-10 M17-79496
CHANGE IN THE SHAPE OF METALS UNDER THE SIMULTANEOUS EFFECTS OF THERMAL CYCLING AND AN EXTERNAL LOAD 67-10 M17-79638
CHANGE IN THE BLOCK STRUCTURE OF ALUMINUM IN THE COURSE OF CREEP 67-10 M17-79650
HIGH-ENERGY RATE FORMING OF DIE CAVITIES 67-11 M08-80566
LOW-TEMPERATURE INTERNAL FRICTION OF ALUMINUM AT 1-HZ 67-11 M17-80232
ULTRASONIC WORK HARDENING OF FACE CENTERED CUBIC METALS AND ALLOYS 67-11 M17-80379
HIGHER ORDER ELASTIC CONSTANTS AND THE EQUATION OF STATE OF FCC METALS 67-11 M17-80612
INTERNAL FRICTION IN FCC METALS DURING ELONGATION 67-11 M17-81048
STUDIES ON THE SUBSTRUCTURE DEVELOPED AROUND FATIGUE CRACKS 67-11 M17-81065
ELECTRON MICROSCOPIC STUDY OF SUBSTRUCTURE DEVELOPED AROUND FATIGUE CRACKS 67-11 M17-81066
TECHNIQUE FOR THE DETERMINATION OF DYNAMIC-TENSILE-STRENGTH CHARACTERISTICS 67-11 M17-81091
VISCOUS ULTRASONIC ATTENUATION IN METALS 67-11 M17-81092
ON THE THEORY OF INTERNAL FRICTION OF PLASTICALLY DEFORMED METALS 67-11 M17-81418
THE EFFECT OF ELECTROLYTIC HYDROGEN UPON THE DUCTILITY OF METALS AND ALLOYS 67-12 M17-82441
AMPLITUDE-DEPENDENT PART OF THE INTERNAL FRICTION OF ALUMINUM 67-12 M17-82561
RELATING THE FLOW STRESS OF ALUMINUM TO STRAIN, STRAIN RATE AND TEMPERATURE 67-12 M17-82718
LOW STRAIN RATE, HIGH STRAIN FATIGUE OF ALUMINUM AS A FUNCTION OF TEMPERATURE 67-12 M17-82855
THE DEFORMATION OF THIN FOILS UNDER HYDROSTATIC PRESSURE 67-12 M17-83026
THE EFFECT OF THE SURFACE LAYER STRESS ON TRANSIENT CREEP OF POLYCRYSTALLINE ALUMINUM 67-12 M17-83049
POINT DEFECT HARDENING OF ALUMINUM. PT. 2. ANALYSIS OF ELECTRON IRRADIATION EXPERIMENTS AT 23 K 67-12 M17-83060
A STUDY OF THE STRESS-STRAIN RELATIONSHIP IN THE WORK-HARDENING RANGE 67-12 M17-83238
STATISTICS FOR THE DISTRIBUTION OF PLASTIC DEFORMATION IN A MONOCRYSTAL OF ALUMINUM 67-12 M17-83302
A STUDY OF FATIGUE WITHIN THE FRAMEWORK OF THE KINETIC CONCEPT OF FRACTURE 67-12 M17-83485
THE EFFECT OF PRESSURE ON FATIGUE 67-12 M17-83487

ALUMINUM, MECHANICAL TESTS
A NEW HARDNESS NUMBER FOR THE BALL TEST OF NONFERROUS METALS AND ALLOYS 67-02 M17-58896

ALUMINUM, MELTING
INTRODUCTION AND OPERATION OF A 15 TON GAS-FIRED FURNACE FOR MELTING ALUMINUM AND ALUMINUM ALLOYS 67-01 M03-57154
EFFECT OF REMELTING ALUMINUM ON ITS SODIUM CONTENT 67-02 M03-61290
STUDY OF THE EFFECT OF FREQUENCY ON MAGNETOHYDRODYNAMIC EFFECTS IN AN INDUCTION CRUCIBLE FURNACE 67-02 M06-58875
METHOD FOR MELTING EASILY FUSIBLE MATERIALS 67-04 M03-66402
COPPER AND ALUMINUM --NON-FERROUS AND LIGHT METALS AND ALLOYS--. PT. 2 67-04 M06-66243
ALUMINIUM MELTING IN BULK 67-06 M03-70707
INDUCTION MELTING IN THE FOUNDRY 67-06 M06-71598
NON-FERROUS METALS RESEARCH 67-07 M01-74165
A NEW APPROACH TO BULK MELTING OF ALUMINUM 67-08 M03-74651
MELTING, REMELTING, DEGASSING, FLUXING AND HANDLING 67-08 M03-74838

ALUMINUM, METAL FOILS
ACTIVATION ANALYSIS FOR NONDESTRUCTIVE LOCALIZATION OF IMPURITIES IN FOILS 67-01 M19-58588
WEATHER RESISTANT TRANSPARENT LACQUERS ON AL 67-06 M12-71983

ALUMINUM, METAL POWDERS
PERMEABILITY TECHNIQUES FOR CHARACTERIZING FINE POWDERS 67-06 M09-71798

ALUMINUM, METAL WORKING
ALUMINUM WORKS MODERNIZATION 67-01 M01-58529
THE WAUNARLWYDD WORKS MODERNISATION PROGRAMME 67-01 M01-58580
THE USE OF EXPLOSIVE ENERGY IN THE DEFORMATION AND WELDING OF METALS 67-01 M07-57990
PUNCHING GETS AROUND DIE WEAR 67-01 M07-58487
THE INFLUENCE OF THE HEAT TREATMENT OF INGOTS AND SLABS ON THE EARING OF ALUMINUM SHEET OF DIFFERENT PURITIES 67-01 M08-57287
REPORT ON THE DEEP DRAWING OF PARTIALLY HARDENED ALUMINUM AND ITS ALLOYS 67-01 M08-57457
NEW TECHNIQUES IN RIGID METAL CONTAINER MANUFACTURE 67-01 M08-57548
DISCUSSION OF THE STRETCH-FORMABILITY 67-01 M08-58246
CONSTANT-GAGE ALUMINUM STRIP PRODUCED BY ROLLING MILL 67-02 M07-58971
CONFIDENCE IN ALUMINIUM 67-02 M07-59487
STEEL WORKING PROCESSES 67-02 M07-59628
HERF SHEARS EDGES CLEAN 67-02 M07-61006
FIVE-LINE TRANSFER PRESS MAKES 300 CANS A MINUTE 67-02 M08-59032
HIGH-SPEED GRINDING HALVES MACHINING TIME 67-02 M08-61857
DRAWING THICK ALUMINUM SHELL 67-03 M07-65038
LOEWY CONSTANT-GAP ROLLING MILL AT THE WORKS OF ALUMINIUM CORPORATION 67-03 M07-65114
SOME APPLICATIONS OF EXPLOSIVE FORMING 67-03 M08-65113
A CRITICAL LOOK AT ULTRASONIC METALWORKING PROCESSES 67-03 M08-65620
INVESTIGATION OF SPECIFIC PRESSURE AND FRICTION IN PLASTIC COMPRESSION OF METAL 67-03 M17-65963
USE OF POLYURETHANE PADS FOR COLD FORMING OPERATIONS 67-04 M07-66335

ALUMINUM

APPLICATION OF A PETROFORGE MACHINE TO HIGH-SPEED SHEARING OPERATIONS 67-04 M08-66107
APPLICABILITY TO OTHER METALS OF DRAWABILITY TESTS WITH STEELS 67-04 M08-66398
THE DEFORMATION OF SHEET METAL THROUGH UNDERWATER SPARK DISCHARGES 67-04 M08-67060
COMBINATION DRAWING OF LIGHT-GAGE MATERIAL 67-05 M07-69440
DEEP DRAWING THICK ALUMINIUM 67-05 M08-68934
IMPROVEMENT IN ELECTRIC ALUMINUM WIRE 67-06 M07-70201
ON THE PRODUCTION OF ROUND-WIRES FROM ALUMINUM STRIP 67-06 M07-71217
METAL SPINNING TOOLS UP FOR SPACE AGE JOBS 67-06 M08-70680
IMPALCOS 6 MILLION POUND MODERNIZATION SCHEME AT WAUNARLWYDD 67-06 M20-71299
TOOLING FOR ACCURATE EXTRUSION BENDING 67-07 M07-72797
MAGNETISM TAMED FOR FORMING 67-07 M07-73693
THE ELASTIC BEHAVIOR OF A FOUR-HIGH COLD ROLLING STAND IN THE FINISH ROLLING OF AL FOIL 67-07 M07-74156
COMMERCIAL FORMS OF ALUMINUM ALLOYS 67-08 M01-74815
AN ATTEMPT TO REDUCE PIERCING PRESSURE WITH TRAPPED LUBRICANT 67-08 M07-75575
CONTINUOUS ALUMINUM ROD CASTING AND ROLLING PLANT 67-08 M07-75705
GKN COLD FORGING PARTS 67-08 M07-76098
THE EFFECTS OF TEMPERATURE, SPEED AND STRAIN-RATE ON THE FORCE AND ENERGY REQUIRED IN BLANKING 67-08 M08-76048
METAL TRANSFER AND BUILD UP IN FRICTION AND CUTTING 67-08 M08-76058
THE FINE BALNKING PROCESS 67-08 M08-76194
HIGH-SPEED SHEARING OPERATIONS ON THE PETROFORGE 67-10 M08-78598
AN ASSESSMENT OF ELECTROFORMING 67-10 M12-79438
A FURTHER INVESTIGATION OF THE ERICHSEN TEST 67-10 M17-78502
THE INVESTIGATION OF THE IMPORTANCE OF FRICTION IN MASSIVE DEFORMATION IN RING UPSETTING TESTS 67-10 M17-79180
DRIFT-BOLT AND FLOW-TURNING. PT. 2 67-12 M08-82060
PROBLEMS OF THE TESTING OF DEEP DRAWABILITY 67-12 M08-82934
RESEARCH AND DEVELOPMENT OF HIGH-RATE FORMING TECHNIQUES 67-12 M08-83235
METALLURGICAL PRINCIPLES OF HOT WORKING 67-12 M17-82043
THE MECHANISM OF FORMING IN BENDING 67-12 M17-82776

ALUMINUM, METALLOGRAPHY
COLOR RADIOGRAPHY, A NEW INDUSTRIAL MATERIAL TESTING METHOD 67-03 M19-65732
OBTAINING THIN FOIL FROM WELDED JOINT METAL FOR STUDY OF DISLOCATION STRUCTURE 67-04 M13-66441
METHOD OF REMOVING THIN FOIL FROM WELDED JOINTS FOR THE STUDY OF DISLOCATION STRUCTURES 67-07 M13-72700
STUDY OF THE FORMATION OF VACANCY FIGURES ON THE SURFACE OF ALUMINUM DURING QUENCHING AT HIGH TEMPERATURES 67-09 M13-77288
MICROGRAPHIC PRACTICE 67-10 M13-78855
ATTACK OF GRAIN BOUNDARIES AND DEFORMATION SUBSTRUCTURES IN 99.99 PER CENT PURE ALUMINUM 67-12 M13-83490
NEW METALLOGRAPHIC PREPARATION METHOD 67-12 M13-83521

ALUMINUM, MICROSCOPY
METALLURGICAL INVESTIGATIONS WITH A 500 KV ELECTRON MICROSCOPE 67-06 M14-71545

ALUMINUM, MICROSTRUCTURE
TEXTURES AS CAUSES OF EARING 67-01 M08-57286
THE EFFECT OF TEMPERATURE AND DEGREE OF WORKING ON THE STRUCTURE OF HOT ROLLED AND EXTRUDED ALUMINUM 67-02 M13-59127
THE MECHANICAL PROPERTIES OF WELDABLE ZQ 50 ALUMINUM ALLOY 67-02 M13-59724
CAST TEXTURES AND MACROMOSAIC STRUCTURES IN CONTINUOUSLY CAST ALUMINUM 67-02 M13-59731
GRAIN-BOUNDARY SLIDING IN METALS 67-02 M13-61780
THE MICROSTRUCTURE OF HOT FORGED ALUMINUM 67-02 M14-59126
EFFECT OF CRYSTALLIZATION CONDITIONS ON THE MOSAIC MACRO- AND MICROSTRUCTURE IN METALLIC CRYSTALLITES PREPARED FROM A MELT 67-02 M14-59865
RECRYSTALLIZATION AND GRAIN GROWTH OF ALUMINUM 67-02 M14-60606
GRAIN BOUNDARY MIGRATION AND THE FORMATION OF RECRYSTALLIZATION TEXTURES IN METAL SINGLE- AND POLYCRYSTALS 67-03 M14-65546
RECRYSTALLIZATION DUE TO PLASTIC DEFORMATION IN HOT WORKING 67-03 M14-65556
STUDY OF PURE ALUMINUM SINGLE AND BICRYSTALS RECRYSTALLIZATION 67-03 M14-65559
INFLUENCE OF SMALL AMOUNTS OF SILVER ON THE RECRYSTALLIZATION OF MOLTEN ZONE ALUMINUM 67-03 M14-65560
EXAMINATION OF POLYGONIZATION SUBSTRUCTURES BY X-RAY MICROSCOPY 67-04 M13-66310
GRAIN REFINING OF CAST ALUMINUM 67-04 M14-67064
RECOVERY AND RECRYSTALLIZATION OF DEFORMED HIGH PURITY ALUMINUM 67-04 M14-67541
X-RAY ANALYSIS OF THE SUBSTRUCTURE OF ALUMINUM DURING CREEP 67-04 M17-66488
IRREGULAR TEXTURES OF ALUMINUM SHEETS 67-05 M13-68401
DESCRIPTION OF A NEW TECHNIQUE FOR THE PREPARATION OF THIN METALLIC FILMS. APPLICATION FOR THE EXAMINATION OF GRAIN ORIENTATION SEAMS BY TRANSMISSION ELECTRON MICROSCOPY 67-05 M13-69134
EFFECT OF CYCLIC HEATING AND COOLING ON FRAGMENTED STRUCTURE OF ALUMINUM AND CADMIUM SINGLE CRYSTALS 67-05 M13-69665
ON THE DIRECTION OF SLIP BANDS IN UNIDIRECTIONAL EXTENSION OF POLYCRYSTALLINE COPPER AND ALUMINUM 67-06 M13-70156
ORIENTATION OF TWIN PARTICLES IN ROLLED ALUMINUM INGOTS 67-06 M13-70214
GRAIN BOUNDARY MIGRATION DURING RECRYSTALLIZATION. PT. 1. ZONE-REFINED LEAD, ZINC, TIN AND BISMUTH. PT. 2. ZONE-REFINED ALUMINUM 67-06 M14-69933
THEORETICAL PROBLEMS OF MODIFYING ALUMINUM AND ITS ALLOYS 67-06 M14-70930
ENHANCED STAGE 1 RECOVERY OF DEFORMED ALUMINUM 67-06 M14-71516
A TRANSIENT EFFECT IN GRAIN-BOUNDARY MIGRATION DURING RECRYSTALLIZATION IN ALUMINUM 67-06 M14-71955
THE MICROSTRUCTURE OF CAST FOILS OF ALUMINUM OBSERVED BY TRANSMISSION ELECTRON MICROSCOPY 67-08 M13-75142
THE GRAIN-BOUNDARY SEGREGATION OF FE, CO AND NI IN PURE ALUMINUM AND ITS EFFECTS ON MECHANICAL PROPERTIES 67-08 M14-75356
ANISOTROPY OF GRAIN BOUNDARY ENERGY AND ITS INFLUENCE ON BOUNDARY MORPHOLOGY IN SHEET 67-09 M13-77600
ELECTRON MICROSCOPY OF GRAIN STRUCTURE OF LOW DISORIENTATION 67-09 M13-78012
TOPOGRAPHIC X-RAY INVESTIGATION OF THE SUBSTRUCTURE OF NONDEFORMED SUPERRAFFINAL IN COMBINATION WITH CHEMICAL AND THERMAL ETCHING 67-09 M13-78175
A NEW METHOD OF THINNING MASSIVE ALUMINUM OR ALUMINUM ALLOY SPECIMENS FOR TRANSMISSION ELECTRON MICROSCOPY 67-10 M13-78859
METALLOGRAPHIC INVESTIGATION OF ZONE MELTED ALUMINUM 67-10 M13-78961
USE OF ETCH FIGURE TECHNIQUE FOR APPRAISAL OF THE IMPURITY DISTRIBUTION IN ZONE MELTED ALUMINUM 67-10 M13-79204
NEW INVESTIGATIONS OF HATCH ETCHING AS INFLUENCED BY ORIENTATION IN AL, CU AND FE-SI 67-10 M13-79483
INVESTIGATION OF 99.0 PER CENT PURE ALUMINUM IN THE AS-CAST CONDITION AND FOLLOWING VARIOUS SLAB ANNEALS 67-10 M14-79385
MICROGRAPHIC EVIDENCE OF THE ELIMINATION OF QUENCHED-IN VACANCIES IN ALUMINUM DURING GRADUAL REHEATING AT VARIOUS TEMPERATURES 67-12 M13-82282
APPARENT PORE FORMATION DURING CELLULAR SOLIDIFICATION 67-12 M13-82874

ALUMINUM, MOLDS
MOLDS FOR BLOW MOLDING 67-06 M06-70032
CASTING IRON FLANGES FOR FINNED PIPES IN ANODISED DIES 67-09 M06-78082

ALUMINUM, NITRIDES
INHIBITION OF AUSTENITIC GRAIN GROWTH BY ALUMINIUM

NITRIDE 67-06 M14-71335

ALUMINUM, NONDESTRUCTIVE TESTING
NONDESTRUCTIVE TESTING OF COMPOSITE STRUCTURES WITH THE SONIC RESONATOR 67-02 M19-60916
DETERMINATION OF OXYGEN IN AL AND ZR BY IRRADIATION WITH HE IONS 67-02 M19-62194
STRIP THICKNESS MEASUREMENT WITH RADIONUCLIDES 67-03 M19-65625
RADAR PATROLS FOR SURFACE CRACKS 67-10 M19-78861
NONDESTRUCTIVE TESTING OF ADHESIVE BONDS IN AIRCRAFT 67-10 M19-79437
ELECTROMIGRATION EFFECTS IN ALUMINUM FILM ON SILICON SUBSTRATES 67-11 M16-81203
ENGINEERING IMPLICATIONS OF NONDESTRUCTIVE TESTING OF ALUMINUM 67-11 M19-80293

ALUMINUM, NUCLEAR PROPERTIES
FAST NEUTRON SCATTERING FROM BERYLLIUM, SODIUM, AND ALUMINUM 67-06 M16-70548
ZERO-FIELD NUCLEAR SPIN RELAXATION AND RESONANCE ABSORPTION IN SUPERCONDUCTING ALUMINUM 67-10 M16-78735

ALUMINUM, OPTICAL PROPERTIES
OPTICAL STUDIES ON VARIOUS ANODIC OXIDE FILMS ON AL 67-05 M15-68895
THE OPTICAL CONSTANTS OF ALUMINIUM FROM 12 TO 36 EV 67-06 M15-70695
NEUTRON DIFFRACTION STUDIES ON CHROMIUM-BASED CR-V-MN TERNARY DILUTE ALLOYS 67-06 M16-70571
EFFECT OF A PERIODIC LATTICE POTENTIAL ON THE OPTICAL PROPERTIES AND OTHER INTEGRAL CHARACTERISTICS OF CUBIC POLYVALENT METALS 67-06. M16-71828
THE EFFECT OF AMORPHOUS SURFACE LAYERS ON ELECTRON MICROSCOPE IMAGES OF CRYSTALS 67-11 M13-80808

ALUMINUM, OXIDATION
ANODIC OXIDATION OF ALUMINUM 67-05 M12-68714
INVESTIGATION OF THE ANODIC OXIDATION OF AL WITH RADIOACTIVE TRACERS IN H2SO4 ELECTROLYTES 67-09 M18-77207
NUCLEATION AND GROWTH OF THE OXIDE FORMED BY GRADED OXIDATION OF ALUMINIUM 67-11 M14-80352
OXIDATION OF NIOBIUM AND NIOBIUM COATED WITH ALUMINUM IN STEAM-AIR MIXTURES 67-12 M18-83219

ALUMINUM, PAINTING
ASSEMBLY LINES FOR PAINTING 67-01 M12-58433

ALUMINUM, PERMANENT MOLDS
CASTING IRON FLANGES OF FINNED TUBES INTO ANODIZED CHILL MOLDS 67-02 M06-61810

ALUMINUM, PHASE TRANSFORMATIONS
TRANSFORMATIONS TAKING PLACE DURING THE HEATING OF SINTERED ALUMINUM POWDER 67-02 M09-60894
ELIMINATION OF DEFECTS IN HIGH-PURITY ALUMINUM INDUCED BY ROLLING AT VERY LOW TEMPERATURES 67-02 M14-58961
RECRYSTALLIZATION OF ALUMINUM WITH FINELY LINED LAYER PHASES OF ALUMINUM OXIDE 67-02 M14-59747
THE INFLUENCE OF LOW-FREQUENCY VIBRATION ON THE NUCLEATION OF SOLIDIFYING METALS 67-02 M14-61840

ALUMINUM, PHASES /STATE OF MATTER/
RESEARCH ON NOBLE METAL ALLOYS CONTAINING HIGHER ELECTROPOSITIVE ELEMENTS. PT. 10. HEAT OF FORMATION OF AL-AU ALLOYS 67-05 M09-69352

ALUMINUM, PHYSICAL PROPERTIES
INFLUENCE OF DIFFERENT ACTIVE FACTORS ON THE APPEARANCE OF ANODIZED SHEET, SUSCEPTIBILITY OF THE CAUSES 67-02 M15-60557
VISCOSITY OF PURE ALUMINUM 67-02 M15-61730
THE EFFECT OF IMPERFECT CRYSTALLINE STRUCTURE ON ELASTIC AND RIGID PROPERTIES OF ALUMINUM 67-04 M15-66863
ADIABATIC CALORIMETER TO MEASURE THE STORED ENERGY OF ALUMINUM AFTER NEUTRON IRRADIATION AT 4.6 K 67-05 M15-68337
COMPRESSIBILITY AND BINDING ENERGY OF THE SIMPLE METALS 67-07 M15-73942
PROPERTIES OF PURE ALUMINUM 67-08 M01-74802
CHANGE IN THE SHAPE OF METALS UNDER THE COMBINED ACTION OF THERMAL CYCLES AND EXTERNAL LOADS 67-08 M15-74879
ALUMINUM ALLOYS AS ANODE MATERIAL 67-08 M15-75946
INERTIA OF EXOELECTRON EMISSION OF STRAINED METALS 67-08 M16-75889
DENSITY OF THIN EVAPORATED ALUMINUM FILMS 67-08 M19-74714
FACTORS THAT DETERMINE THE APPLICATIONS OF ALUMINUM 67-08 M20-74816
RECENT DEVELOPMENTS IN ELECTRICAL CONDUCTOR MATERIALS. PT. 6 67-08 M20-74954
VISCOSITY OF ALUMINUM AND ALUMINUM-SILICON ALLOYS--INFLUENCE OF THE FILM OF ALUMINA 67-12 M15-81815
SCHOTTKY FIELD EMISSION THROUGH AL-AL2O3-AL STRUCTURES 67-12 M16-81848

ALUMINUM, POROSITY
DEVELOPMENT OF CAVITIES IN CREEP 67-05 M17-68857

ALUMINUM, POWDER METALLURGY
OBTAINING HIGH-DISPERSION ALUMINUM POWDER BY SPARK EROSION 67-04 M09-66833
ALUMINUM POWDER FOR HIGH-STRENGTH SAP 67-04 M09-66880
MECHANISM OF METALLIC CONTACT FORMATION IN SAP TYPE ALLOYS 67-04 M09-67335
ALUMINUM P/M PARTS NOW IN MASS PRODUCTION 67-04 M09-68130
HYPEREUTECTIC ALUMINUM-SILICON ALLOYS PRODUCED BY HOT COMPACTION OF ATOMIZED POWDER 67-04 M09-68161
STRUCTURAL TRANSFORMATIONS DURING HEATING OF ALUMINUM OXIDE POWDER 67-05 M09-68392
METHOD OF PREPARING ALUMINUM POWDER 67-05 M09-69059
BENCH SCALE ISOSTATIC PRESSING 67-08 M09-75525
PREPARATION OF FINE METAL PARTICLES BY MEANS OF EVAPORATION IN HELIUM GAS 67-08 M09-75933
FROM ALUMINUM POWDER TO P/M PREFORMS TO FORGED AND EXTRUDED PARTS 67-09 M09-78166
PHYSICAL AND MECHANICAL PROPERTIES OF BLENDED AND BALL-MILLED ALUMINIUM-ALUMINIUM OXIDE ALLOYS 67-09 M09-78261
INFLUENCE OF PARTICLE SIZE ON PROPERTIES OF ALUMINUM POWDERS AND SEMIFINISHED PARTS OF SAP 67-12 M09-82213
PRODUCTION OF ALUMINUM AND ALUMINUM ALLOY GRANULES FOR SEMIFINISHED PRODUCTS 67-12 M09-83023
INFLUENCE OF LONG-TIME THERMAL TREATMENTS ON THE PROPERTIES OF AL-AL2O3 COMPOSITES 67-12 M09-83502

ALUMINUM, POWER CABLES
AL CONDUITS 67-04 M20-67704

ALUMINUM, PROTECTIVE COATINGS
PROTECTION OF STRUCTURAL STEEL BY FLAME-SPRAYED METALS AND PAINTS 67-05 M12-68820

ALUMINUM, PUMPING
THIN-WALLED CHANNELS OF A LINEAR INDUCTION PUMP FOR THE TRANSFER OF MOLTEN ALUMINUM 67-06 M03-70374

ALUMINUM, QUALITY CONTROL
CONTROL OF PRODUCT QUALITY IN THE WROUGHT ALUMINUM INDUSTRY 67-07 M19-74009

ALUMINUM, QUATERNARY SYSTEMS
ON THE STRUCTURE OF URANIUM-MANGANESE-ALUMINUM-IRON ALLOYS WITH CONSTANT URANIUM CONTENT OF 50 AT. PER CENT 67-02 M13-60119
THE QUATERNARY SYSTEM, U-UMN2-UAL2-UFE2 67-02 M13-60877
STUDY OF PHASE EQUILIBRIUM IN A PORTION OF THE TI-AL-CR-FE-SI-B SYSTEM 67-09 M13-77298

ALUMINUM, RADIATION EFFECTS
REACTION KINETICS OF STAGE 3 RECOVERY IN ALUMINIUM AFTER NEUTRON IRRADIATION 67-03 M14-65380
RADIATION ANNEALING IN DEUTERON-IRRADIATED GOLD, ALUMINUM, AND PLATINUM 67-05 M16-69803
RECOVERY OF DEUTERON-IRRADIATED GOLD, ALUMINIUM, AND PLATINUM 67-05 M16-69804
INFLUENCE OF GAMMA RADIATION ON ELECTRICAL RESISTANCE OF VAPOR DEPOSITED THIN FILMS OF AG, AL, NI AND PERMALLOY 67-06 M16-72376

ALUMINUM, REACTIONS /CHEMICAL/
CONTRIBUTION TO THE THEORY OF ELECTROCHEMICAL IMPEDANCES. APPLICATION TO A CASE OF ANODIC POLISHING 67-02 M12-59419
REACTION OF ALUMINUM WITH HYDROGEN AND POTASSIUM FLUORIDE 67-02 M14-59130
EQUILIBRIUM CONCENTRATION OF HYDROGEN IN MOLTEN ALUMINUM IN THE ORDINARY ATMOSPHERE 67-02 M14-61025
SCHOTTKY EMISSION AS A RATE-LIMITING FACTOR IN THERMAL OXIDATION OF METALS 67-03 M14-65025
WORK FUNCTION CHANGES DUE TO THE CHEMISORPTION OF WATER AND OXYGEN ON ALUMINUM 67-03 M16-65807

ALUMINUM

ELECTRON MICROSCOPIC OBSERVATION ON HEAT OXIDATION OF VACUUM-DEPOSITED ALUMINIUM FILMS 67-04 M14-66998
INFLUENCE OF HYDROGEN, HIGH TEMPERATURE AND HIGH PRESSURE ON MECHANICAL PROPERTIES OF METALS 67-04 M17-66345
POTENTIOSTATIC MEASUREMENT OF THE INFLUENCE OF WATER ON ALUMINUM 67-04 M18-66594
KINETICS OF DEGASSING OF ALUMINUM POWDERS 67-05 M09-68701
CERAMIC THERMOCHEMISTRY 67-05 M15-69139
HIGH TEMPERATURE REACTIONS OF BORON NITRIDE WITH ALUMINUM 67-05 M15-69422
REACTION BETWEEN VITREOUS SILICA AND MOLTEN ALUMINUM 67-06 M14-71165
ON THE FORMATION OF AL PLUS IONS DURING THE ANODIC DISSOLUTION OF ALUMINUM 67-06 M14-72191
STUDY BY ELECTROCHEMICAL POLARIZATION OF ALUMINUM IN DEAERATED SODIUM CHLORIDE SOLUTIONS 67-08 M14-74791
USES IN METALLURGICAL AND CHEMICAL REACTIONS 67-08 M20-74837
ALUMINUM CELL CATHODES 67-09 M20-77137
KINETICS OF DEGASSING OF ALUMINUM POWDERS 67-12 M09-82677
MATHEMATICAL AND EMPIRICAL DETERMINATION OF THE DISTRIBUTION COEFFICIENT OF ZINC IN ALUMINUM 67-12 M14-81783

ALUMINUM, RECOVERY
LOW TEMPERATURE RECOVERY OF POLYCRYSTALLINE ALUMINUM 67-06 M17-70406

ALUMINUM, RECRYSTALLIZATION /METALLURGICAL/
EFFECT OF THE CONDITIONS OF DEFORMATION ON THE PROCESS OF RECRYSTALLIZATION OF ALUMINUM 67-06 M10-70361
THE CUBE TEXTURE IN AL AND ITS ROLE IN THE CONTROL OF EARING 67-08 M14-74516

ALUMINUM, REDUCING AGENTS
THE GROWTH AND THE DISTRIBUTION OF THE INCLUSIONS COMPOSED OF A LAYER-LIKE INCLUSIONS GROUP DURING THE DEOXIDATION OF LIQUID IRON WITH ALUMINUM 67-11 M14-80955

ALUMINUM, REDUCTION /CHEMICAL/
ALUMINUM REDUCTION--EVALUATING 5 PER CENT LIF-MODIFIED HALL BATH IN 10-KA EXPERIMENTAL REDUCTION CELLS 67-08 M03-75312

ALUMINUM, REFINING
COMPARATIVE EFFICIENCY OF SUBHALIDE REFINING OF ALUMINUM 67-02 M03-60538
USE OF THE CONTENT OF ANODIC GASES FOR CONTROL OF THE CURRENT EFFICIENCY IN ALUMINUM REDUCTION CELL 67-02 M03-60539
INFLUENCE OF VACUUM DEGASSING ON THE CONTENT OF HYDROGEN AND ALUMINUM OXIDE IN ALUMINUM AND ITS ALLOYS 67-02 M03-61619
CONTINUOUS REFINEMENT OF ALUMINUM ALLOYS USING THE ELECTROSLAG PROCESS 67-02 M03-62172
STUDY OF ELECTRICAL FIELD IN CATHODE METAL OF ALUMINUM ELECTROLYZERS 67-04 M03-66970
SINGULARITIES OF HEAT TRANSFER IN AN ALUMINUM ELECTROLYZER 67-04 M03-66971
METHODS OF CONTINUOUSLY REFINING ALUMINIUM ALLOYS USING THE ELECTROSLAG PROCESS 67-04 M03-67171
ON THE PROCESS OF EVOLUTION OF HYDROGEN FROM ALUMINIUM HEATED IN VACUO BELOW THE MELTING POINT 67-04 M19-67572
RELATIONSHIP BETWEEN OXIDIZABILITY AND ELECTROCHEMICAL BEHAVIOR OF CARBON ATOMS DURING THE ELECTROLYSIS OF ALUMINUM 67-05 M03-68960
RELATIONSHIP BETWEEN DISTRIBUTION OF ANODIC CURRENT DENSITY AND FORM OF INTERPOLAR GAP IN INDUSTRIAL ALUMINUM BATHS 67-05 M03-68961
EFFECT OF CARBON OXIDATION INHIBITORS ON THE BEHAVIOR OF THE CARBON ANODE DURING ELECTROLYSIS OF ALUMINUM 67-05 M03-69537
CALCULATION METHOD FOR DETERMINATION OF FLUORINE BALANCE DURING ELECTROLYSIS OF ALUMINUM 67-06 M03-71309
AUXILIARY INSTALLATIONS FOR THE TREATMENT OF MELTS OF ALUMINUM AND ITS ALLOYS WITH CHLORINE 67-07 M03-74034
HISTORICAL DEVELOPMENT OF ALUMINUM PRODUCTION AND APPLICATION 67-08 M01-74814
SOME PROBLEMS OF ANODIC DEPOLARIZATION 67-08 M03-75443
INTERPRETATION OF REDUCED CURRENT EFFIEIENCY IN TECHNICAL ELECTROLYSIS OF AL 67-08 M03-76260
SELF-PROPELLED ROUND-ABOUT CLEANER OF STEEL PINS 67-09 M03-76809
SPECIAL FEATURES OF SMELTING ALUMINUM IN CHANNEL INDUCTION FURNACES 67-09 M03-76873
SUBFLUORIDE DISTILLATION PROVIDES 99.999-99.9999 PER CENT PURE ALUMINUM 67-09 M03-76881
STUDY OF ELECTRODE PROCESSES IN CHLORIDE-FLUORIDE ELECTROLYTE CONTAINING LITHIUM FLUORIDE IN ELECTROLYTIC REFINEMENT OF ALUMINUM 67-09 M03-77114
ON THE ADVISABILITY OF CHLORINATING ALUMINUM IN ALUMINUM PLANTS 67-09 M03-77115
INFLUENCE OF CALCIUM ON BEHAVIOR OF LEAD AND TIN IMPURITIES DURING ZONE REFINING OF ALUMINUM 67-09 M03-77116
APPLICATION OF TRACERS IN THE ALUMINUM-INDUSTRY. PT. 1. DETERMINATION OF CURRENT EFFICIENCY IN ELECTROLYTIC FURNACES 67-09 M03-77529
IMPROVED QUALITY OF ALUMINUM FOR SEMIFINISHED PRODUCTS 67-10 M03-79944
SEPARATION OF AL FROM TI-AL ALLOYS BY A THERMAL METHOD 67-11 M03-81176
COMPUTER CALCULATION OF MAGNETIC EFFECTS IN THE BATH OF ALUMINUM CELLS 67-11 M03-81337
REFINING OF ALUMINUM USING TRANSFER REACTIONS 67-11 M03-81434
INFLUENCE OF DEGASSING ATMOSPHERE OF ALUMINUM POWDER ON REABSORPTION OF MOISTURE 67-11 M09-80758
AN EXAMINATION OF INDUSTRIAL-SCALE ELECTROLYTIC REFINING OF ALUMINUM USING LABELED ATOMS 67-12 M03-82489
PURIFICATION OF ELECTROLYTIC ALUMINUM BY ZONE REFINING 67-12 M03-82510
HIGH-EFFICIENCY PURIFICATION OF SINGLY ELECTROLYZED AL BY ZONE REFINING 67-12 M03-82511
CATION EXCHANGE SEPARATION OF TRACES OF MAGNESIUM AND SOME OTHER METALS FROM HIGH-PURITY ALUMINIUM 67-12 M03-82515
METALLOTHERMIC REDUCTION OF OXIDES IN WATER-COOLED COPPER FURNACES 67-12 M03-82743

ALUMINUM, ROLLING
THE DIMENSIONING OF ROLL BODIES IN ROLL STANDS FOR ROLLING ALUMINUM 67-01 M07-58220
SEVERAL EXPERIMENTS ON FOUR-HIGH PLATE MILL 67-01 M07-58245
RATIONALIZATION OF ROLLING AND DRAWING PROCESS DESIGNS ANALYSIS 67-01 M07-58576
REPORT ON THE EFFECT OF IRON AND SILICON IMPURITIES ON THE RECRYSTALLISATION TEXTURE OF VERY HIGH-PURITY ALUMINIUM FOIL 67-01 M14-57458
ALUMINIUM STRIP ROLLING AT DOLGARROG 67-02 M07-61123
CLOSER TOLERANCE ALUMINIUM STRIP JUSTIFIES ADVANCED MILL DESIGN 67-02 M07-61849
THE INFLUENCE OF IRON AND SILICON ADDITIONS IN THE EARING OF ALUMINIUM SHEET 67-02 M14-61883
PRE-STRESSED MILL FOR EXTRA-THIN TINPLATE 67-04 M07-67405
ROLLING ALUMINUM POWDER INTO COILED DENSE-EDGE STRIP 67-04 M09-66841
ROLLING TUBES ON A KHPTR MILL WITH A TWO-ROW SEPARATOR 67-05 M07-68553
STUDY ON HELICAL ROLLING. PT. 1. PRELIMINARY EXPERIMENT WITH LEAD BILLETS 67-05 M07-69370
CONSTANT GAP MILL IN SERVICE. HIGHLY SUCCESSFUL FIRST INSTALLATION AT DOLGARROG 67-05 M07-69872
ADVANCED ALUMINIUM ROLLING MILL 67-06 M07-70843
ALUMINIUM STRIP MILL WITH CONSTANT-GAP CONTROL SYSTEM 67-06 M07-71297
ON THE RELATIVE VALIDITY OF TWO CURRENT COLD-ROLLING THEORIES 67-06 M07-71635
CONSTANT-GAP MILL IN SERVICE--LOWEY-ROBERTSON DESIGN PRODUCES CLOSE-TOLERANCE STRIP 67-06 M07-72017
BRITISH MILL ROLLS TOWARD AUTOMATION 67-06 M20-70678
SCOW HAS DEMONSTRATION ON ALUMINIUM STRIP MILL 67-07 M07-72415
ROLLING TUBES ON THE KHPTR MILL WITH TWIN SEPARATORS 67-07 M07-72464
THE PRODUCTION AND FABRICATION OF COLD-FORMED SECTIONS AT THE WORKS OF AYRSHIRE METAL PRODUCTS LTD 67-07 M07-72998
MANUFACTURE OF ALUMINUM EVAPORATION COILS FOR REFRIGERATORS USING HOT CLADDING TECHNIQUES 67-07 M07-73037
SPECIFIC PRESSURE DISTRIBUTION IN STRIP WIDTH

DURING ROLLING 67-08 M07-75008
STUDY OF METAL FLOW IN THE SEAT OF DEFORMATION 67-08 M07-75011
ALUMINUM HOT ROLLING LINE HAS ALL-STATIC POWER SUPPLIES 67-08 M07-75702
CRYSTALLOGRAPHIC RELATIONSHIPS BETWEEN THE ROLLING AND THE RECRYSTALLIZATION TEXTURES OF ALUMINIUM 67-11 M13-80378
FRICTION DURING HIGH-SPEED COLD ROLLING OF METALS WITH VARIOUS LUBRICANTS 67-12 M07-81715
QUALITY CONTROL IN AN ALUMINUM SHEET MILL 67-12 M07-82071
THE ORIGIN OF SOME SURFACE DEFECTS ON ROLLED AND DRAWN PRODUCTS 67-12 M07-83234
ULTRASONICS INVESTIGATED AS A MEANS TO REDUCE ROLLING FORCES 67-12 M07-83596

ALUMINUM, SCAVENGERS
INTERACTION OF IMPURITIES DURING PURIFICATION BY ZONE MELTING--APPLICATION TO THE IMPROVEMENT OF THE PURIFICATION OF BERYLLIUM BY SCAVENGERS 67-03 M03-65246

ALUMINUM, SHEET /METAL/
TESTS ON ANODIZED AL 67-06 M12-71982

ALUMINUM, SINGLE CRYSTALS
AN ABSOLUTE PRECISION MEASUREMENT OF LATTICE CONSTANTS ON GE AND AL MONOCRYSTALS WITH ELECTRON DIFFRACTION 67-07 M13-72729
INTERNAL FRICTION OF PURE AL AND ZN SINGLE CRYSTALS DURING TORSION TESTS 67-07 M17-72521
THE EFFECT OF OXIDE FILMS ON DISLOCATION-SURFACE INTERACTIONS IN ALUMINUM 67-10 M13-79553
NEUTRON DIFFRACTION STUDY OF THE DEBYE-WALLER .. FACTOR FOR ALUMINUM 67-11. M16-80488
DETERMINATION OF THE PHONON SPECTRUM OF A CRYSTAL FROM THE HEAT CAPACITY 67-11 M16-81042
SELECTIVE GROWTH IN THE RECRYSTALLIZATION OF A ZONE-REFINED ALUMINUM SINGLE CRYSTAL 67-12 M14-82737
GUREVICH MAGNETOMORPHIC OSCILLATIONS IN SINGLE CRYSTALS OF ALUMINUM AT HELIUM TEMPERATURES 67-12 M15-82526

ALUMINUM, SINGLE CRYSTALS
CONTRIBUTION TO THE STUDY OF ELASTOPLASTIC
CONTRIBUTION TO THE STUDY OF ELASTOPLASTIC BEHAVIOR OF MONOCRYSTALLINES. PT. 1 BEHAVIOR OF MONOCRYSTALLINES. PT. 1 67-12 M17-83577

ALUMINUM, SOLID SOLUTIONS
SOLID SOLUBILITY OF ZIRCONIUM IN ALUMINUM 67-02 M13-59890

ALUMINUM, SPECIFICATIONS
LIGHT METALS AND ALLOYS. ASTM STANDARDS. PT. 6 67-03 M19-65494

ALUMINUM, STORAGE TANKS
SAFE AND ECONOMICAL ALUMINUM STORAGE TANKS 67-07 M19-74100

ALUMINUM, STRESS RELAXATION
PLASTIC RELAXATION OF STRESSES IN ALUMINIUM AND COPPER 67-05 M17-68845

ALUMINUM, STRIP
CONTINUOUS HEAT TREATING FURNACES FOR ALUMINIUM AND LIGHT ALLOY STRIP 67-04 M10-66670
ALCAN COIL COATER HITS 300 FPM 67-06 M12-70866

ALUMINUM, SUPERCONDUCTIVITY
DISPERSION OF TRANSVERSE SOUND IN SUPERCONDUCTORS 67-01 M16-57962
TUNNELING INVESTIGATION OF ENERGY-GAP ANISOTROPY IN SUPERCONDUCTORS 67-04 M16-66511
EFFECT OF DEGREE OF CRYSTAL LATTICE DISTORTION OF METAL ON ITS SUPERCONDUCTIVITY 67-08 M15-75259
HIGH-FREQUENCY EFFECTS IN THE ACOUSTIC ATTENTUATION OF SUPERCONDUCTING ALUMINUM 67-08 M16-74399
RELAXATION AND RECOMBINATION TIMES OF QUASIPARTICLES IN SUPERCONDUCTING AL THIN FILMS 67-08 M16-75785
THE SUPERCONDUCTING PROPERTIES OF ALUMINUM FILMS 67-10 M16-79460

ALUMINUM, SURFACE FINISHING
INFLUENCE OF THE VARIOUS FACTORS AFFECTING THE APPEARANCE OF ANODIZED SHEET CAPABLE OF CAUSING THE CHECKERBOARD EFFECT 67-02 M13-60659
VIBRATION AND TUMBLING--A NEW DIMENSION IN FINISHING 67-03 M12-65664
ELECTROLYTIC POLISHING OF ALUMINUM 67-04 M12-67394
VIBRATORY FINISHING 67-05 M12-68438
ELECTROLYTIC BRIGHTENING OF ALUMINUM 67-05 M12-69137
CHEMICAL AND ELECTROLYTIC BRIGHTENING OF ALUMINUM 67-05 M12-69894
MECHANICAL FINISHING OF ALUMINUM SURFACES 67-06 M12-71381
THE OXIDE-METAL INTERFACE OF ELECTROPOLISHED ALUMINUM 67-07 M12-72645
TOROIDAL PATH MACHINE SPEEDS ABRASIVE FINISHING 67-08 M08-74461
MECHANICAL FINISHING 67-08 M12-74853
FINE FINISHING--THE DEVELOPMENT FROM HAND OPERATIONS TO VIBRATORY METHODS 67-10 M12-79191
POLISHING AND DENSIFICATION OF AL 67-10 M12-79886

ALUMINUM, SURFACE PROPERTIES
FORMATION OF UNDULATED --CORRUGATED-- SURFACES ON ALUMINUM INGOTS 67-02 M03-62223
SURFACE ROUGHNESS AND THE ENTRAPMENT OF LUBRICANT IN METAL-WORKING 67-05 M08-68725

ALUMINUM, TERNARY SYSTEMS
SHAPE OF SOLUBILITY ISOTHERMS IN TERNARY SYSTEMS 67-01 M13-58042
INVESTIGATION OF PHASE EQUILIBRIA IN ALUMINUM-RICH ALLOYS OF THE GE-AL-SB SYSTEM 67-01 M14-57653
INVESTIGATION OF THE ALLOYS IN THE TI-AL-V SYSTEM 67-02 M13-59840
INTERACTIONS BETWEEN THE COMPOUND NIAL AND NIOBIUM 67-02 M13-59891
X-RAY INVESTIGATIONS IN A FEW T-T5-AL SYSTEMS 67-02 M13-61888
X-RAY DIFFRACTION ANALYSIS OF THE NB-NI-AL SYSTEM 67-03 M13-65793
NEW G PHASES 67-05 M13-68485
ON THE EQUILIBRIUM DIAGRAM OF AL-NI-TI TERNARY SYSTEM 67-05 M13-68870
THE TERNARY EQUILIBRIUM SYSTEM CU-MN-AL 67-05 M13-69851
THE CONSTITUTION OF ALUMINIUM-CADMIUM-TIN ALLOYS 67-05 M14-68720
ON THE TERNARY PHASES UCOAL, UIRAL, AND UNIAL OF THE C22 --FE2P-- TYPE 67-06 M13-71623
TERNARY COMPOUNDS WITH A SUPERLATTICE OF THMN12 TYPE IN THE YTTRIUM-TRANSITION METAL-ALUMINUM SYSTEMS 67-07 M13-73480
LOW TEMPERATURE SPECIFIC HEAT OF BCC ALLOYS OF 3D TRANSITION ELEMENTS WITH 20 PER CENT AL 67-07 M15-73630
THE TITANIUM-RICH CORNER OF THE TERNARY TI-AL-CO SYSTEM 67-08 M13-75139
THE MICROSTRUCTURES OF TERNARY EUTECTIC ALLOYS IN THE SYSTEMS CD-SN---PB, IN, TL--, AL-CU---MG, ZN, AG--, AND ZN-SN-PB 67-09 M13-76678
RESEARCH INTO ZIRCONIUM-NICKEL-ALUMINIUM SYSTEM ALLOYS WITH HIGH ALUMINIUM CONTENT 67-09 M14-76937
EQUIATOMIC TERNARY COMPOUNDS OF URANIUM AND ALUMINIUM WITH GROUP 8 TRANSITION ELEMENTS 67-09 M14-77466
A CLARIFICATION OF THE PHASES OCCURRING IN ALUMINIUM-RICH ALUMINIUM-IRON-SILICON ALLOYS, WITH PARTICULAR REFERENCE TO THE TERNARY PHASE ALPHA-ALFESI 67-10 M13-78450
DUCTILE HIGH-TEMPERATURE NIOBIUM-NICKEL-ALUMINUM SYSTEM ALLOYS 67-10 M17-78967
DISTRIBUTION OF OXYGEN AND ALUMINUM BETWEEN METALLIC AND OXIDE PHASES IN THE CO-O-AL AND NI-O-AL SYSTEMS 67-11 M13-81154
X-RAY DIFFRACTION ANALYSIS OF THE CE-MG-AL SYSTEM IN THE 0-33.3 AT . PER CENT CE RANGE 67-11 M13-81173
PHASE EQUILIBRIA AND DISTRIBUTION OF THE ELEMENTS IN THE FE-O-AL SYSTEM 67-12 M13-82108
X-RAY EXAMINATION OF THE AL-BE-CE SYSTEM UP TO 25 PER CENT CE 67-12 M13-82122
PHASE EQUILIBRIUM IN THE TI-CO-AL SYSTEM 67-12 M13-82123

ALUMINUM, THERMAL MEASUREMENTS
TIPS OF THERMOCOUPLES USED TO MEASURE MOLTEN ALUMINUM TEMPERATURES 67-04 M19-67528

ALUMINUM, THERMAL PROPERTIES
THE ABSOLUTE THERMOELECTRIC POWER OF LIQUID METALS 67-01 M15-57972
A USEFUL RELATIONSHIP BETWEEN ATOMIC VIBRATION . AMPLITUDES AND THERMAL EXPANSION FOR CUBIC SOLIDS 67-02 M15-59099
TRANSIENT DETERMINATIONS OF THERMAL DIFFUSIVITIES AND DISSIPATIONS OF METAL FOILS 67-02 M15-61073

ALUMINUM

ENTHALPY, HEAT CAPACITY, AND HEAT OF FUSION OF ALUMINUM FROM 366 TO 1647 K 67-06 M15-70701
ECHANCEMENT OF THE LATTICE HEAT CAPACITY DUE TO LOW-FREQUENCY RESONANCE MODES IN DILUTE AL-MG ALLOY 67-08 M15-74473
MEASUREMENT OF THE RATE OF HEAT RELEASE IN ALPHA-IRRADIATED AL BY MEANS OF A MICROCALORIMETER 67-08 M15-75648
LOW TEMPERATURE LIQUID-VAPOR DEFORMATION CALORIMETER 67-08 M15-76155
EXPERIMENTAL DETERMINATION OF THE THERMAL CONDUCTIVITY COEFFICIENT OF FUSED ALUMINUM FROM 725 TO 1570 C 67-09 M15-77752
AN EXPERIMENTAL EQUATION OF STATE FOR ALUMINUM TO THE DEBYE APPROXIMATION 67-11 M15-81672
HEAT CONDUCTIVITIES BELOW 1 K. PT. 2 67-12 M15-83401

ALUMINUM, THERMODYNAMICS

EFFECT OF ALUMINUM ON THE ACTIVITY OF OXYGEN DISSOLVED IN MOLTEN IRON 67-04 M14-66953
DETERMINATION OF THE ACTIVITY COEFFICIENT AT 1600 C. OF URANIUM IN AN INFINITELY DILUTE SOLUTION IN LIQUID IRON BY STUDYING A HETEROGENEOUS EQUILIBRIUM 67-09 M15-77680

ALUMINUM, THIN FILMS

THE ELECTRODE POTENTIAL OF EVAPORATED ALUMINUM FILMS IN CHLORIDE SOLUTION 67-02 M14-61774
ELECTRON BEAM FORMATION OF 800 A. WIDE ALUMINIUM LINES 67-06 M12-71014
INFLUENCE OF A SUPERIMPOSED FILM ON THE ELECTRICAL CONDUCTIVITY OF THIN METAL FILMS 67-11 M15-81087
PHOTON EMISSION FROM AL FOILS BOMBARDED BY NONNORMALLY INCIDENT ELECTRONS 67-11 M16-80655
ESTIMATION OF TEMPERATURE RISE IN ELECTRON BEAM HEATING OF THIN FILMS 67-12 M15-83274

ALUMINUM, TRANSFORMERS

THE MANUFACTURE OF STRIP CONDUCTORS FOR POWER TRANSFORMERS. PT. 2 67-06 M17-71414

ALUMINUM, TRANSPORT PROPERTIES

ELECTROTRANSPORT IN ALUMINIUM 67-02 M15-61894
DIFFUSION AND ELECTROTRANSPORT OF SOLUTES IN MOLTEN GERMANIUM--IMPLICATIONS FOR PRODUCING P-N JUNCTIONS 67-06 M15-69927
LOW-FIELD DE HAAS-VAN ALPHEN STUDY OF THE FERMI SURFACE OF ALUMINUM 67-08 M16-74660
MAGNETIC POLARIZATION OF TRANSITIONAL IMPURITIES IN ALUMINIUM 67-09 M16-77524
SOME OBSERVATIONS ON THE ELECTROMIGRATION IN ALUMINUM FILMS 67-10 M15-78870

ALUMINUM, VAPORIZING

CRUCIBLE TYPE EVAPORATION SOURCE FOR ALUMINUM 67-04 M12-67403

ALUMINUM, WAVE MECHANICS

DIRECT AND CORE-POLARIZATION CONTRIBUTIONS TO THE KNIGHT SHIFT IN METALLIC ALUMINUM 67-02 M16-61568

ALUMINUM, WEAR

EFFECT OF AN ELECTRIC FIELD ON THE CAVITATION DISINTEGRATION OF METALS 67-06 M17-70937

ALUMINUM, WELDED JOINTS

OXYGAS AND INERT GAS WELDING OF ALUMINUM AND ALUMINUM ALLOYS 67-06 M11-71817

ALUMINUM, WELDING

WIRE AND ROD FOR WELDING ALUMINUM AND ITS ALLOYS. TECHNICAL SPECIFICATIONS FOR PRODUCTION AND DELIVERY 67-01 M11-58141
ON THE CRYSTALLIZATION OF THE WELD MOLTEN POOL AND CALCULATION OF RATE 67-01 M11-58202
HEAT PROPAGATION DURING FUSION WELDING OF ALUMINUM TO COPPER 67-01 M11-58269
WELDING BY COMPRESSED ARC ON ALTERNATING CURRENT 67-01 M11-58274
FUSION WELDING OF ALUMINUM WITH COPPER 67-01 M11-58277
POROSITY IN ALUMINIUM WELDS.. ITS CAUSES AND ITS CURES 67-01 M11-58498
THE MASH-LAP WELDING PROCESS 67-02 M11-59486
EXPERIENCE GAINED IN THE AVOIDANCE OF DEFECTS IN THE TIG AND MIG WELDING OF AL 67-02 M11-59814
CAPACITOR DISCHARGE MACHINES FOR SPOT-WELDING OF LIGHT ALLOYS 67-02 M11-60018
SELECTION OF THE FUSION WELDING METHOD FOR ALUMINUM AND ALUMINUM ALLOYS 67-02 M11-60131
ELECTRIC ARC WELDING OF ALUMINUM 67-02 M11-60951
TENSILE STRENGTH OF AL AND AL-MG LAP WELDMENTS 67-02 M17-59172
WELD STRENGTH IMPROVED BY ROLL PLANISHING 67-03 M08-65170
PULSED ARC WELDS ALUMINIUM BARRELS 67-03 M11-65674
ULTRASONICS IN ALUMINUM JOINING 67-04 M11-66248
THE BONDING MECHANISM IN THE COLD PRESSURE WELDING OF ALUMINIUM 67-04 M11-66604
THE USE OF AL AND AL-ALLOYS IN EQUIPMENT BUILDING AND IN THE CHEMICAL INDUSTRY 67-04 M11-66723
EXPERIENCES IN AVOIDING DEFECTS IN THE TIG AND MIG WELDING OF AL 67-04 M11-66883
HIGH PERFORMANCE A. C. ARC WELDING 67-04 M11-67355
FUSION WELDING ALUMINIUM TO COPPER 67-04 M11-67358
WELDING DESIGN AND PROCESS MANUAL--ALUMINUM 67-04 M11-67492
SELECTION OF A METHOD OF FUSION WELDING ALUMINIUM AND ITS ALLOYS 67-04 M11-67671
MEASUREMENT OF ELECTRODE MOVEMENT AS MEANS OF SPOT WELD QUALITY CONTROL 67-04 M11-68043
MECHANICAL PROPERTIES OF BUTT JOINTS OF ALUMINUM LEADS WELDED BY DIFFERENT TECHNIQUES 67-04 M17-67447
ALUMINIUM WELDING BY THE OXY-ACETYLENE PROCESS 67-05 M11-68422
PICKING A PROCESS TO WELD ALUMINUM 67-05 M11-68481
TRENDS IN ALUMINIUM FABRICATION 67-05 M20-69544
CERAMIC FLUX FOR WELDING ALUMINUM 67-06 M11-70152
SYSTEM ENGINEERING FOR QUALITY-ASSURED WELDING OF ALUMINUM 67-06 M11-70228
BUDGET PRICED MACHINE MAKES WELDED 3-PIECE CANS FROM PREFINISHED ALUMINUM 67-06 M11-70229
NEW DEVELOPMENTS IN ELECTRON-BEAM WELDING 67-06 M11-70236
METHOD AND DEVICE FOR JOINING SECTOR ALUMINUM CABLES AND SINGLE ROUND ALUMINUM CABLES BY THERMIT WELDING 67-06 M11-70376
INFLUENCE OF THE WELDING RATE ON SELF-ADJUSTMENT OF ARC DURING SUBMERGED ARC WELDING OF ALUMINUM 67-06 M11-71844
PECULIARITIES OF SPOT WELDING OF CLADDINGS AND VARIOUS LIGHT METAL ALLOYS 67-06 M11-71849
CHARACTERISTICS OF AUTOMATIC ARC WELDING OF ALUMINUM TO COPPER WITH APPLICATION OF FLUXES 67-06 M11-71852
CONDENSER DISCHARGE WELDING OF ALUMINIUM AND ITS ALLOYS BY EMPLOYING INSERTS 67-07 M11-72417
GUIDE TO MIG WELDING PROCESSES 67-07 M11-73304
THE WELDING OF SAP 67-07 M11-73468
INFLUENCE OF THE ROLLING TEXTURE ON COLD WELDING OF ALUMINUM 67-08 M11-74372
WELDS WERE NEVER FINER THAN THEY ARE AT GODDARD 67-08 M11-74440
WELDING 67-08 M11-74849
FRICTION WELDING. PT. 10. WELDING OF SMALL ROUND BARS 67-08 M11-75304
FRICTION WELDING 67-08 M11-75557
ELECTRON BEAM WELDING DEVELOPMENTS IN U.S.A. 67-08 M11-75563
CONDENSER DISCHARGE WELDING USING VARIOUS ALLOYED INSERTIONS AS A NEW TYPE OF RESISTANCE SPOT WELDING PROCESS FOR ALUMINUM 67-08 M11-75608
THE CONVERSION OF EXISTING TUBE WELDING INSTALLATIONS TO HIGH-FREQUENCY INDUCTION WELDING 67-08 M11-75672
AN EQUATION FOR CALCULATING OPTIMUM WELDING CONDITION IN ELECTRON BEAM WELDING. PT. 7. STUDIES ON ELECTRON BEAM WELDING 67-08 M11-75758
METAL INERT GAS WELDING WITH PULSATING CURRENT 67-08 M11-75786
THE INFLUENCE OF PHYSICAL PROPERTIES ON PENETRATION IN ARC WELDING 67-09 M11-76462
BONDING OF ALUMINUM BY THE CAPACITOR DISCHARGE MAGNETIC FORMING PROCESS 67-09 M11-77948
ULTRASONIC WELDING OF ALUMINUM CONDUCTORS TO SPUTTERED GOLD FOILS 67-09 M11-78124
CALCULATING THE HEATING PROCESS DURING LASER WELDING OF METALS 67-10 M11-78401
VERTICAL WELDING OF ALUMINIUM 67-10 M11-78865
PRACTICAL ASPECTS OF GAS WELDING ALUMINUM

67-10 M11-79789
WELDING OF AL AND ITS ALLOYS 67-10 M11-79795
VERTICAL MECHANIZED MIG WELDING OF ALUMINIUM 67-10 M11-80089
COMPARISON OF THE BEHAVIOR OF SEVERAL METALS UNDER THE IMPACT OF THE ELECTRON BEAM OF A WELDING MACHINE 67-11 M11-80245
EFFECTS OF THE WELDING RATE ON ARC SELF-REGULATION DURING THE AUTOMATIC SUBMERGED ARC WELDING OF ALUMINIUM 67-11 M11-80876
SPOT WELDING COATED AND DISSIMILAR LIGHT ALLOYS 67-11 M11-80881
THE AUTOMATIC SUBMERGED ARC WELDING OF ALUMINIUM TO COPPER 67-11 M11-80884
THE USE OF HELIUM AS A PROTECTIVE ATMOSPHERE IN THE TIG WELDING OF AL 67-11 M11-80931
THE GAS-SHIELDED WELDING OF ALUMINIUM IN CONTAINER MANUFACTURE, WITH SPECIAL REFERENCE TO LOW-TEMPERATURE TECHNOLOGY 67-12 M11-81964
SOME EXPERIMENTS ON JOINING ALUMINUM TO MILD STEEL BY TIG WELDING 67-12 M11-82134
INFLUENCE OF ROLLING TEXTURE ON THE COLD WELDING CONDITIONS FOR ALUMINIUM 67-12 M11-82245
TERMINATING ALUMINUM CONDUCTORS 67-12 M11-82469
SOME CHARACTERISTICS OF PULSATION ARC WELDING WITH CONSUMABLE ELECTRODE IN ARGON 67-12 M11-82623
ELECTROSLAG WELDING OF ALUMINUM AND ITS ALLOYS 67-12 M11-82636
CURRENT PENETRATION SEAM WELDING--A NEW HIGH SPEED PROCESS 67-12 M11-82818
WELD FASTENERS FIND GROWING USE IN METALWORKING 67-12 M11-83137
VERTICAL MECHANIZED MIG WELDING OF ALUMINUM 67-12 M11-83162
PRODUCTION OF CURRENT PULSES FOR GAS-SHIELDED ARC WELDING 67-12 M11-83207
TEMPERATURE DISTRIBUTION DURING PRESSURE WELDING WITH INDIRECT PULSE HEATING 67-12 M19-82628

ALUMINUM, WIRE
THE DEVELOPMENT OF POWER CABLE MANUFACTURE 67-10 M20-78395
DESIGN AND MANUFACTURE OF PLASTIC INSULATED ALUMINUM CONDUCTOR TELEPHONE CABLE 67-10 M20-78582
MECHANICAL PROPERTIES OF COPPER CLAD ALUMINUM WIRE. PT. 2. STUDIES ON FABRICATION OF ULTRAFINE WIRE OF ALUMINUM AND ALUMINUM ALLOYS 67-12 M17-83110

ALUMINUM, WIRE ROD
CONTINUOUS PRODUCTION OF ALUMINIUM ROD FOR ELECTRICAL CONDUCTORS 67-11 M03-81491

ALUMINUM, X RAY ANALYSIS
SPECIMEN CONTAMINATION IN ELECTRON-PROBE MICROANALYSIS AND ITS PREVENTION USING A COLD TRAP 67-04 M13-66246
DIRECT REGISTRATION OF POLE-DIAGRAMS FOR THE DETERMINATION OF TEXTURES BY X-RAYS 67-04 M13-66283
X-RAY DIFFRACTION MICROSCOPY TECHNIQUE FOR THE STUDY OF AL SINGLE CRYSTALS 67-05 M14-68533
X-RAY DIFFRACTION DETERMINATION OF STACKING FAULT PROBABILITY IN METALS WITH FACE-CENTERED CUBIC LATTICE 67-08 M13-75347
RADIOGRAPHIC OBSERVATIONS OF THE SOLIDIFICATION OF METALS 67-08 M14-75138
DETERMINATION OF THE THICKNESS OF ALUMINUM ON SILICON BY X-RAY FLUORESCENCE 67-09 M19-76628
REFLECTION OF SOFT X-RAYS FROM THIN LAYERS OF ALUMINUM AND CHROMIUM 67-10 M16-79454

ALUMINUM, X RAY DIFFRACTION
CORRELATION OF INTRAGRANULAR AND INTERGRANULAR DOUBLE X-RAY REFLECTIONS IN POLYCRYSTALLINE METALS 67-02 M13-59922
RELATION OF INTRA- AND INTERGRANULAR DOUBLE X-RAY REFLECTIONS IN POLYCRYSTALLINE METALS 67-07 M13-72577

ALUMINUM BASE ALLOYS
ULTRASONIC TREATMENT IN METALLURGY AND FOUNDRY PRACTICE 67-01 M01-57153
ALUMINUM D612 --NATURAL AGING CASTING ALLOY-- 67-02 M01-59492
ROD, BAR AND WIRE PRODUCT INFORMATION 67-02 M01-60101
DIRECTION AND FUTURE OF RESEARCH IN THE FIELD OF LIGHT ALLOYS IN FRANCE 67-02 M01-62033
HYDROALIUM ALLOY FOR DIE-CASTING USE 67-02 M06-60945
THE USE OF AL AND AL ALLOYS IN CHEMICAL APPARATUS AND THE CHEMICAL INDUSTRY 67-02 M20-59416
ALUMINUM A357 --SAND AND PERMANENT MOLD CASTING ALLOY-- 67-04 M01-68070
PRODUCTION OF A MASTER ALLOY FROM AN ALUMINUM-TITANIUM ALLOY BY REDUCTION OF TITANIUM TETRACHLORIDE -- WITH ALUMINUM-- 67-04 M03-67133
AL IN SHIP BUILDING 67-04 M20-67703
EFFECT OF COLD DEFORMATION ON THE TEMPERATURE OF THE BEGINNING OF RECRYSTALLIZATION OF AGING ALLOYS 67-05 M14-68976
THE POTENITAL OF ALUMINIUM AND ITS ALLOYS IN BRITISH INDUSTRY 67-06 M20-70651
APEX 12 AND 12 PM --CASTING ALLOY-- 67-07 M01-73155
ALCOA ALUMINUM HANDBOOK 67-12 M01-82985

ALUMINUM BASE ALLOYS, AEROSPACE
AEROSPACE STRUCTURAL METALS HANDBOOK. V2. NON-FERROUS LIGHT METAL ALLOYS 67-04 M01-66200

ALUMINUM BASE ALLOYS, AGING /METALLURGICAL/
THE BASIC PROCESSES AFFECTING TWO-STEP AGING IN AN AL-MG-SI ALLOY 67-10 M14-78908

ALUMINUM BASE ALLOYS, AIRCRAFT COMPONENTS
AIRCRAFT USE OF ALUMINUM INVESTMENT CASTINGS 67-04 M20-66169

ALUMINUM BASE ALLOYS, ALLOYING
BOOSTING LIGHT METAL PROPERTIES WITH BERYLLIUM 67-06 M01-71010
ADDING MANGANESE TO ALUMINUM AND ITS ALLOYS 67-09 M03-76806
PRINCIPLES OF ALLOYING HEAT RESISTANT CONDUCTING COPPER AND ALUMINUM ALLOYS 67-09 M03-77126

ALUMINUM BASE ALLOYS, ANODES
FIELD TESTING A NEW ALUMINUM ANODE. AL-HG-ZN GALVANIC ANODE FOR SEA WATER APPLICATIONS 67-08 M18-75740

ALUMINUM BASE ALLOYS, ATOMIC PROPERTIES
PLASMA OSCILLATION IN AL-4. 12 PER CENT CU ALLOY 67-10 M16-78720
CLUSTERING IN LIQUID ALUMINUM-COPPER AND LEAD-TIN EUTECTIC ALLOYS 67-11 M16-81345
FORCE CONSTANTS OF INTERATOMIC BONDS IN METALLIC SOLID SOLUTIONS 67-12 M14-82047

ALUMINUM BASE ALLOYS, BAND THEORY
SOFT X-RAY ABSORPTION SPECTRA OF METALS AND ALLOYS. PT. 1. BE, AL, SB, BI AND AL-MG ALLOYS 67-04 M16-67473

ALUMINUM BASE ALLOYS, BEARINGS
BEARINGS, TOOLING, INSTRUMENTS AND OTHER MECHANICAL APPLICATIONS 67-08 M20-74833

ALUMINUM BASE ALLOYS, BICRYSTALS
GRAIN BOUNDARY SLIDING OF AL-CU SOLID SOLUTION ALLOY DEFORMED BY SHEAR 67-01 M17-58323

ALUMINUM BASE ALLOYS, BIMETALS
INVESTIGATION OF LAYER ADHESION STRENGTH IN BIMETAL SHEETS DURING CYCLICAL LOADING 67-03 M17-65606
ROLLING OF STRUCTURAL ALUMINUM-STEEL BIMETALS 67-06 M12-71358
ADHESION STRENGTH OF LAYERS IN BIMETAL SHEETS UNDER INTERMITTENT STATIC LOADS 67-08 M17-74531

ALUMINUM BASE ALLOYS, BONDING
JOINING OF LIGHT ALLOYS BY COLD SETTING USING A CHEMICAL ADHESIVE 67-02 M11-59530
MECHANICAL RESISTANCE OF CEMENTED JOINTS 67-02 M11-60108
BONDING IN METAL STRUCTURE FABRICATING 67-02 M12-59563
CAMERA MAKER CUTS COATS ADDS QUALITY WITH PRE-LAMINATED COIL 67-02 M20-60993
STRESSED SKIN STRUCTURES IN SANDWICH CONSTRUCTION 67-04 M09-66142
HOW OXIDES OF ALUMINUM AFFECT BOND STRENGTH 67-04 M11-67069
MECHANICAL STRENGTH PROPERTIES OF ADHESIVE BONDED JOINTS AND EFFECT OF AGING CONDITIONS 67-04 M17-66397
EFFECT OF THICKNESS OF GLUE FILM ON THE LIFE OF GLUED METAL JOINTS IN WATER 67-05 M11-69043
COMPOSITE BULKHEAD FABRICATION DEVELOPMENT 67-06 M11-70006
BONDING COPTER BLADES 67-06 M11-71489
THE TECHNOLOGY OF THE ADHESIVE BONDING OF METALS 67-06 M18-71554
STRUCTURAL EPOXY ADHESIVES 67-07 M11-72803
ADHESIVE BONDING 67-08 M11-74852

ALUMINUM BASE ALLOYS

ADHESIVE BONDING 67-12 M11-83155
FRACTURE TOUGHNESS OF 7075-T6 AND -T651 SHEET, PLATE, AND MULTILAYERED ADHESIVE-BONDED PANELS 67-12 M17-83244

ALUMINUM BASE ALLOYS, BRAZING
A FLUX FOR FURNACE BRAZING ALUMINUM AND ITS ALLOYS 67-04 M11-66571
A FLUX FOR THE FURNACE BRAZING OF ALUMINIUM AND ALUMINIUM ALLOYS 67-07 M11-73428
FLUXLESS ALUMINUM BRAZING SHOWS PROMISE 67-08 M11-74456
BRAZING 67-08 M11-74850
ALUMINUM DIP BRAZING PROCEDURES 67-09 M11-77744
FLUXLESS BRAZING MAKES HEADWAY 67-11 M11-80766

ALUMINUM BASE ALLOYS, BRIDGES /STRUCTURES/
ALUMINUM FOR BRIDGES 67-01 M20-57928

ALUMINUM BASE ALLOYS, BUILDINGS
THE USE OF ALUMINUM IN AGRICULTURAL BUILDINGS 67-10 M01-79387

ALUMINUM BASE ALLOYS, CASTING
ON THE CONTINUOUS CASTING OF ALUMINUM-URANIUM ALLOYS 67-01 M03-57289
DIE CASTING AND AUTOMATION 67-01 M06-57239
METAL MELT-OUT CORES IN DIE CASTING 67-01 M06-57320
EFFECT OF ULTRASONIC VIBRATIONS ON STRUCTURE AND PROPERTIES OF AL4 ALLOY 67-01 M06-57328
IMPREGNATING POROUS ALUMINUM ALLOY CASTINGS 67-01 M06-57463
CASTINGS WITH INSERTS 67-01 M06-57974
OBTAINING ALUMINUM-MANGANESE ALLOY STRIP, STRAIGHT FROM THE MELT 67-01 M06-57996
THE EFFECT OF GAS CONTENT IN ALUMINUM MELTS ON THE QUALITY OF CASTINGS 67-01 M06-58227
BREAKTHROUGH FOR QUALITY DIE CASTERS--ACURAD 67-01 M06-58476
DESIGNING WITH ALUMINIUM 67-01 M06-58665
A VISIT TO CHRYSLER CASTING PLANT 67-02 M06-59483
THE ACURAD STORY 67-02 M06-59497
DIE CASTING OF METALS, INJECTION MOLDING OF ORGANIC MATERIALS 67-02 M06-60611
PROPERTIES OF ALUMINUM ALLOY CASTINGS PRODUCED BY PRESSING OF LIQUID CASTINGS 67-02 M17-61812
EVALUATION OF SAND CAST ALUMINUM ALLOY TEST BAR DESIGN 67-03 M06-65004
GATING AND CASTING TECHNIQUES IN PERMANENT MOLD CASTING OF ALUMINUM ALLOYS 67-03 M06-65352
GIESSEREI, V 53, NO 20, SEPT. 29, 1966, P 666-669+335 67-03 M06-65353
ONE SAND MIX FOR SEVERAL ALLOYS 67-03 M06-65415
RATE OF RISE OF AL ALLOYS IN A SAND MOLD 67-03 M06-65593
GMS WAY TO DENSER DIECASTINGS 67-03 M06-65684
TECHNOLOGY INVOLVED IN THE CASTING OF VAD23 ALLOY INGOTS 67-04 M03-67936
THERMAL CONDITIONS AND CAVITY FILL IN ALUMINUM DIE CASTING 67-04 M06-66148
MELTING AND HANDLING ZINC AND ALUMINUM ALLOYS IN JAPANESE DIE-CASTING PLANTS 67-04 M06-66282
A NEW PROCESS OF CASTING UNDER PRESSURE 67-04 M06-66411
SOLIDIFICATION OF A CASTING IN PRESSURE DIE CASTING 67-04 M06-66420
GATING IN DIE CASTING 67-04 M06-66637
ON CAUSES OF THE CHANGE OF DIAMETER OF SMALL SPHERICAL CASTINGS DURING SOLIDIFICATION IN SAND MOLD 67-04 M06-67115
EQUIPMENT AND PRODUCTION TECHNOLOGY OF THIN-WALLED CASTINGS OF NONFERROUS ALLOYS 67-04 M06-67503
EFFECT OF OVERFLOW WELLS, GATING AND INJECTION PARAMETERS ON THE POROSITY OF A DIE CASTING 67-04 M06-67702
DIMENSIONAL AND WEIGHT ACCURACY OF HIGH-PRESSURE SQUEEZE MOULD CASTINGS 67-04 M06-67941
CALCULATION OF FEEDERS FOR AL-SI ALLOY CASTINGS 67-04 M06-67943
ACCUMULATION OF OXIDES IN ALUMINUM DURING MELTING AND POURING 67-04 M06-68099
ALUMINUM FOIL 67-04 M20-66146
THE DEGASSING OF ALUMINUM ALLOYS. COMPARISON OF NITROGEN, CHLORINE AND DEGASSING TABLETS 67-05 M06-68418
SHRINKHOLE PHENOMENA AND TEXTURE FORMATION OF EUTECTIC AL-SI ALLOYS 67-05 M06-68515
STUDIES ON THE HOT TEARING OF AL-CU ALLOYS 67-05 M06-68949
NEW FOUNDRY TECHNIQUES FOR PRODUCING LIGHT ALLOY PREMIUM CASTINGS 67-05 M06-69108
DESIGNING ALUMINUM CASTINGS. PT. 3. GENERAL DESIGN SUGGESTIONS FOR ALUMINUM CASTINGS 67-05 M06-69888
A FUNDAMENTAL STUDY ON THE CASTING CRACK OF LIGHT METAL ALLOYS. RELATION BETWEEN THE CASTING CONTRACTION STRESS AND THE HOT STRENGTH 67-05 M17-68898
ALUMINUM ENGINE TECHNOLOGY--WHERE IS IT NOW 67-05 M20-68468
FORMATION OF THE CHILL ZONE IN INGOT SOLIDIFICATION 67-06 M06-69936
NUCLEATION OF THE EQUIAXED ZONE IN CAST METALS 67-06 M06-69937
DEVICE FOR COOLING THE INGOT BY MIXED WATER AND AIR IN CONTINUOUS ALLOY CASTING 67-06 M06-70735
SAND CASTINGS AND GRAVITY DIE CASTINGS RE-DESIGNED FOR PRESSURE CASTING 67-06 M06-70801
FOUNDRY GROWS ON IDEAS 67-06 M06-71007
THERMAL MOLD PROBLEMS IN DIE CASTING 67-06 M06-71092
AUTOMATIC METAL TRANSPORT TO AL DIECASTING MACHINES 67-06 M06-71095
OPERATING EXPERIENCE WITH DIE-CASTING IN THE AUTOMOTIVE INDUSTRY 67-06 M06-71098
EFFICIENT MELTING AND CASTING METHODS IN THE MASS PRODUCTION OF LIGHT-METAL CASTINGS 67-06 M06-71190
ON THE FEEDING CHARACTERISTIC OF ALUMINUM ALLOYS. PT. 1 67-06 M06-71213
EFFECT OF CENTRIFUGAL FORCE ON SOLIDIFICATION OF ALUMINUM ALLOYS 67-06 M06-71677
SOLIDIFICATION OF SIMPLE SHAPED ALUMINUM AND ITS ALLOY CASTINGS IN METALLIC MOLDS 67-06 M06-72187
ALUMINUM CASTING 67-07 M06-72743
CAST ALUMINUM MOTORS WEIGH LESS, LOOK BETTER, LAST LONGER 67-07 M06-72820
FUSIBLE CORES FOR PRESSURE DIECASTINGS 67-07 M06-73042
INFLUENCE OF ULTRASONIC VIBRATION ON THE STRUCTURE AND PROPERTIES OF ALUMINIUM ALLOY AL4 67-07 M06-73050
HIGH-PRESSURE DIE CAST REAR SUSPENSION ARMS 67-07 M06-73089
RADAR WAVE GUIDES 67-07 M06-73335
METAL PIPE FOR MOLTEN ALLOYS 67-07 M18-74040
SOME ASPECTS OF CRACK FORMATION WHEN PRODUCING ROUND INGOTS WITH LARGE CROSS SECTIONS 67-08 M03-75094
PRESSURE DIE CASTING AT THE WORKS OF SINGER MANUFACTURING CO 67-08 M06-74797
DESIGN FACTORS FOR CASTINGS 67-08 M06-74818
FILLABILITY OF MOLDS AND DENSITY OF PLATE-TYPE CASTINGS IN CASTING ALUMINUM ALLOYS UNDER LOW PRESSURE 67-08 M06-75192
THEORY AND CALCULATION OF THE PROCESS OF FILLING THE MOLDS OF VERTICAL THIN-WALLED CASTINGS USING A BOTTOM GATE 67-08 M06-75193
SEALING PROPERTIES OF AL9 A1 ALLOY CASTINGS 67-08 M06-75194
A GATING SYSTEM FOR CHILL CASTING A TRACTOR PISTON IN A110V ALLOY 67-08 M06-75198
MELTING TREATMENT IN THE GRAVITY DIECASTING FOUNDRY 67-08 M06-75640
FEEDING TECHNIQUES FOR AL ALLOYS WITH EXTENSIVE CONTRACTION DURING SOLIDIFICATION AND MAINLY ENDOGENIC SOLIDIFICATION 67-08 M06-75677
EXPERIMENTAL STUDY OF THE VALIDITY OF CLASSICAL HYPOTHESES CONCERNING HEAT TRANSMISSION 67-08 M06-76231
STUDY ON HIGH-STRENGTH CASTING AL-SI-MG-ZN ALLOYS. PT. 1 67-08 M17-75357
INTERNAL COMBUSTION ENGINES 67-08 M20-74827
VERTICAL DIRECT CHILL CASTING OF INGOTS FOR WIRE APPLICATIONS 67-09 M03-76404
PRODUCING INBOARD OUTBOARD DRIVE UNITS AT JOHNSON MOTORS 67-09 M06-76401
OUTBOARD MOTOR DIE CASTINGS DESIGNED AND PURCHASED BY CHRYSLER 67-09 M06-76402
EFFECT OF THE NATURE OF ALLOY SOLIDIFICATION ON BLOWHOLE FORMATION IN CASTINGS 67-09 M06-77869
THE PROPERTIES OF ALUMINIUM ALLOY CASTINGS PRODUCED BY LIQUID-METAL STAMPING 67-09 M17-78084

ZINC AND ALUMINUM DIE CASTING AT GMS NEW ROCHESTER PRODUCTS DIVISION PLANT
67-10 M06-78701
SINGER SEWING MACHINES RELY ON DIECAST PARTS
67-10 M06-79029
THE SELECTION OF ALUMINUM CAST ALLOYS
67-10 M06-79389
INVESTIGATIONS OF THE STRUCTURE OF CONTINUOUSLY CAST ALMGSI1 - ALLOYS WITHOUT AND WITH ADDITION OF MANGANESE 67-10 M14-79085
AL-SI CASTING ALLOYS WITH HIGH-SI CONTENT
67-11 M06-80459
INFLUENCE OF IRON AND MANGANESE ON THE PROPERTIES OF PRESSURE DIE-CAST A-S10 U4 ALLOY
67-11 M06-80528
HOT TEARING OF ALUMINUM ALLOYS 67-11 M06-81189
PROBLEMS OF PRODUCING ALUMINUM ALLOYS CASTINGS
67-11 M06-81501
STUDY OF THE OPERATION OF MIXERS FOR CASTING ALUMINUM AND ALUMINUM ALLOY INGOTS
67-11 M06-81502
STUDY OF THE FLOW OF METALS IN RUNNERS
67-11 M06-81535
AN ALUMINUM-BASE ALLOY FOR CASTING
67-12 M01-83475
MANUFACTURE OF COMPLICATED PARTS FROM A ZINC ALLOY BY THE PRESSURE CASTING METHOD
67-12 M06-81753
STUDIES ON THE SOLIDIFICATION PROCESS OF THE ALUMINUM-SILICON ALLOYS 67-12 M06-82103
SOME POSSIBILITIES OF CASTING USING COUNTERPRESSURES 67-12 M06-82610
EFFECT OF AL7-4 MELT PURITY ON QUALITY OF CASTINGS 67-12 M06-82613
ROBOTS PRODUCE DIE CASTINGS 67-12 M06-82710
MACROSEGREGATION. PT. 1 67-12 M06-82766
INLET AND GATING CALCULATIONS FOR PRESSURE-CASTING DIES 67-12 M06-82920
ANNUAL DIE CASTING REVIEW. PT. 1. PROPERTIES AND MATERIALS 67-12 M06-82940
INITIAL HEAT EXCHANGE OF METAL AND MOLD
67-12 M06-83035
THE FORMATION OF SILUMIN MICROSTRUCTURE
67-12 M06-83040
A STUDY ON THE AIR GAP DURING SOLIDIFICATION OF ALUMINUM ALLOY IN THE METALLIC MOLD
67-12 M06-83111
MELTING AND DEGASSING OF ALUMINUM-MAGNESIUM AND ALUMINUM-SILICON CASTING ALLOYS
67-12 M06-83206
DIE CASTINGS SOLVE PRODUCT DESIGN PROBLEMS
67-12 M20-82709

ALUMINUM BASE ALLOYS, CASTINGS
QUALITY REQUIREMENTS FOR PRIMARY ALUMINUM FOR CAST SEMIFINISHED PRODUCTS TO BE GIVEN A DECORATIVE ANODIZED COATING 67-02 M19-60599
ENGINEERED CASTINGS 67-03 M06-65496
THREE NEW CASTING ALLOYS COMBINE STRENGTH, ECONOMY
67-04 M01-66737
IMPREGNATION OF POROUS ALUMINIUM ALLOY CASTINGS
67-06 M06-70751
HOT-CRACKING SUSCEPTIBILITY OF CAST METALS
67-06 M06-71192
PROPERTIES OF COMMERCIAL CASTING ALLOYS
67-08 M06-74809
THE DRILLING AND THE REAMING OF ALUSIL
67-08 M08-75376
COMMERCIAL JETS--THE BIG SWITCH TO PRECISION FORMED PARTS 67-09 M20-77180
WHERE ALUMINUM INVESTMENT CASTINGS ARE USEFUL
67-09 M20-77183
GASES IN ALUMINUM ALLOY DIE-CASTINGS
67-12 M06-81905

ALUMINUM BASE ALLOYS, CATALYSTS
INVESTIGATION OF LEACHING ALUMINUM-NICKEL ALLOYS FOR THE PREPARATION OF SKELETAL CATALYSTS
67-04 M13-67844

ALUMINUM BASE ALLOYS, CHEMICAL ANALYSIS
DETERMINATION OF METALS IN METALS BY ATOMIC ABSORPTION SPECTROPHOTOMETRY 67-01 M19-57931
SPECTROGRAPHIC PROPORTIONING OF IMPURITIES IN ALUMINUM MATERIALS 67-02 M19-59164
QUANTITATIVE DETERMINATION OF ACID-INSOLUBLE ALUMINUM OXIDE AND OTHER INCLUSIONS IN ALUMINUM CASTING ALLOYS 67-04 M19-66149
THE SPECTROPHOTOMETRIC DETERMINATION OF CHROMIUM IN ANODIC POWDERS 67-05 M19-69618
THE SPECTROCHEMICAL DETERMINATION OF ALUMINUM OXIDE IN METALLIC ALUMINUM 67-05 M19-69622
METHOD FOR DETERMINATION OF VANADIUM IN ALUMINUM AND ALUMINUM ALLOYS 67-06 M19-71443
THE ALU-SCHMELZTESTER--A NEW INSTRUMENT FOR THE DETERMINATION OF HYDROGEN IN ALUMINUM MELTS
67-07 M19-74032
DETERMINATION OF MICRO AMOUNT OF IRON IN ALUMINIUM METALS AND ALUMINIUM ALLOYS BY ATOMIC ABSORPTION SPECTROMETRY 67-08 M19-74421
USE OF ALUSCHMELTZTESTER FOR DETERMINING HYDROGEN CONTENT IN AL MELTS 67-08 M19-75378

ALUMINUM BASE ALLOYS, CLADDING
ADHESIVE STRENGTH OF LAYERS OF ALUMINUM ALLOY-KH18N10T STEEL BIMETAL 67-01 M17-57281
CHARACTERISTICS AND NEW TRENDS IN THE PRODUCTION OF SEMI-FINISHED PARTS FROM SINTERED ALUMINUM POWDER 67-02 M09-61627

ALUMINUM BASE ALLOYS, CLEANING
CORROSION TEST COUPONS--MECHANICAL CLEANING
67-01 M12-58768
PROBLEMS IN FINISHING ALUMINUM CASTINGS
67-02 M12-60681
CHEMICAL PREPARATION OF ALUMINUM FOR CHEMICAL, ELECTROCHEMICAL BRIGHTENING AND ANODIC COATING
67-04 M12-67787
CHEMICAL PRETREATING AND FINISHING
67-08 M12-74854
A PHOSPHORIC-SULPHURIC-NITRIC ACID BATH FOR CHEMICAL POLISHING OF COMMERCIAL PURITY ALUMINIUM
67-12 M12-83123
TREATMENT OF METAL SURFACES IN THE AERONAUTICS INDUSTRY 67-12 M12-83381

ALUMINUM BASE ALLOYS, COATING
NEW WAY TO COAT EXTRUSIONS--PLATE THEM WITH PAINT
67-01 M12-57927
LACQUERING, COATING AND LAMINATION OF WIDE STRIP
67-01 M12-58111
PRODUCTION OF COLORED ANODIC OXIDE FILMS ON ALUMINUM 67-01 M12-58361
THE ENAMELLING OF ALUMINUM 67-01 M12-58429
CHEMICAL CONVERSION COATING OF AL AND AL ALLOY SURFACES 67-01 M12-58434
ANODIC BEHAVIOR IN ELECTROPHORETIC COATING ON ALUMINUM ALLOYS 67-01 M12-58613
APPLICATION OF COLOR ANODIZING IN ARCHITECTURE
67-02 M12-59996
PLATING ON ALUMINUM AND ALUMINUM ALLOYS
67-02 M12-60991
MODERN FINISHING PROCESSES FOR ALUMINIUM AND ITS ALLOYS 67-02 M12-62287
EFFECT OF COPPER CONTENT AND HOMOGENIZATION HEAT TREATMENT ON BRIGHT ANODIZING OF 1MG AL ALLOY SHEETS 67-03 M12-65040
ARCHITECTURAL AND HARD ANODIZING
67-03 M12-65151
MODERN PRACTICES FOR FINISHING ALUMINUM--ANODIZING AND SEALING 67-03 M12-65976
LONG-TANK ANODIZING FACILITIES 67-04 M12-66194
ANODIZING OF ROLLED AND EXTRUDED AL AND AL ALLOY SEMIFINISHED PRODUCTS 67-04 M12-67727
MECHANISM OF ANODIC COATING FORMATION ON ALUMINUM 67-04 M12-67789
SEALING AND POSTANODIC TREATMENTS
67-04 M12-67790
BRIGHT ANODIZING OF ALUMINUM 67-04 M12-68031
REVIEW OF TWO PRINCIPAL TYPES OF ALLOYS
67-04 M12-68032
TESTING OF ANODIC COATINGS ON ALUMINUM
67-04 M18-67791
ELECTROPLATING ALUMINUM--A CONTROLLABLE PROCESS
67-05 M12-68491
DECORATIVE AND PROTECTIVE FINISHES PRODUCED ON ALUMINIUM BY HARD ANODIZING 67-05 M12-68814
FURTHER RESULTS WITH NEW METAL-PIGMENTED PAINTS
67-05 M12-68830
WEAR RESISTANCE PROPERTIES OF HARD ANODIZED COATINGS. PT. 1 AND 2 67-05 M12-68896
MULTI-DUTY COATING FOR NONFERROUS METALS
67-06 M12-70226
PLATING ON ALUMINIUM BY THE ALSTAN 70 PROCESS
67-06 M12-70602
HARD ANODIZING ALUMINUM AND ITS ALLOYS
67-06 M12-71068
INDENTIFICATION AND DESCRIPTION OF THE PROPERTIES OF ANODIC OXIDE FILMS ON AL 67-06 M12-71981
INFLUENCE OF THE PHYSICAL STATE OF THE CONSTITUENTS OF THE METAL ON THE QUALITY OF ANODIZED COATINGS
67-06 M12-72195
ANODIC BEHAVIOR IN ELECTROPHORETIC COATING OF ALUMINUM ALLOYS 67-07 M12-73625

ALUMINUM BASE ALLOYS

TECHNOLOGICAL ADVANCES IN ELECTROCHEMICAL FINISHING OF ALUMINUM 67-07 M12-74120
FINISHING ALUMINUM BY ELECTROPLATING FROM AN ELECTROLESS BATH 67-08 M12-74397
ELECTROPLATING 67-08 M12-74857
PORCELAIN ENAMELING 67-08 M12-74859
THE EFFECT OF THIN ANODIC OXIDE FILMS ON THE FATIGUE BEHAVIOR OF AN ALUMINUM ALLOY 67-08 M12-75141
STUDIES ON THE COLOR TONE OF ANODIZED FILMS ON AL-MN-MG ALLOYS 67-08 M12-75374
PREPARATION OF AN ALUMINUM SURFACE FOR ELECTROLYTIC NICKEL PLATING 67-10 M12-78541
ON THE PROGRESS OF ENAMELING OF CONSTRUCTION AL 67-10 M12-79694
THE METALLIZATION OF AL ALLOYS 67-10 M12-79890
THE CHEMIDIZING PROCESS 67-11 M12-81699
SORPTION AND PROTECTIVE PROPERTIES OF ANODIC OXIDE FILMS ON ALUMINUM AFTER FILLING THEM WITH WATER 67-11 M14-81290

ALUMINUM BASE ALLOYS, COATINGS
OXIDATION OF TANTALUM COATED WITH ALUMINUM AND ALUMINUM-CHROMIUM ALLOYS 67-06 M12-70796
NEW TECHNIQUE OF CHEMICOTHERMAL TREATMENT OF TRANSITION METALS IN MOLTEN ALUMINUM 67-08 M12-74975

ALUMINUM BASE ALLOYS, COLD PRESSING
EXPERIENCE IN THE COLD EXTRUSION OF ALUMINUM-ALLOY BLANKS 67-12 M07-83099

ALUMINUM BASE ALLOYS, COMPOSITE MATERIALS
STAINLESS WIRE PLUS ALUMINUM MATRIX EQUALS STRONG, LIGHT COMPOSITE PLATE 67-06 M09-72251

ALUMINUM BASE ALLOYS, CONSTRUCTION MATERIALS
REDUCE EQUIPMENT COSTS BY CORRECT DESIGN IN ALUMINIUM 67-06 M20-71041

ALUMINUM BASE ALLOYS, CONTAINERS
PACKAGING APPLICATIONS 67-08 M20-74835

ALUMINUM BASE ALLOYS, CORROSION
BEHAVIOR OF IRON-CHROME-NICKEL AUSTENITES AND FEAL 40 ALLOY IN SUPERHEATED STEAM 67-01 M18-57162
THE CORROSION BEHAVIOR OF ALUMINUM AND ITS ALLOYS IN WATER. PT. 1. THEORETICAL CONSIDERATION OF THE CORROSION OF ALUMINUM IN WATER AND THE EFFECT OF THE CHEMICAL COMPOSITION OF WATER ON THE CORROSION BEHAVIOR OF ALUMINUM 67-01 M18-57455
THE EFFECT OF INTERNAL STRESSES, ESPECIALLY UPON STRESS CORROSION 67-01 M18-58296
STUDY OF CORROSION OF WELDED ALZNMG ALLOY 67-01 M18-58364
CORROSION RESISTANCE OF STEEL-CORED ALUMINUM AND ALUMINUM ALLOY CONDUCTORS 67-01 M18-58365
THE CORROSION AND CORROSION PROTECTION OF ALUMINUM 67-01 M18-58375
LITERATURE REVIEW OF THE CORROSION AND CORROSION PROTECTION OF AL AND AL ALLOYS 67-02 M18-60033
ELECTROCHEMICAL AND CORROSION BEHAVIOR OF BINARY ALLOYS AND ALUMINUM-BASE INTERMETALLIC COMPOUNDS 67-02 M18-60786
CORROSION OF ALUMINUM AND TITANIUM IN GAPS 67-02 M18-60787
CORROSION AND COMPATIBILITY 67-02 M18-61113
EFFECT OF STRUCTURAL PARAMETERS ON STRESS-CORROSION RESISTANCE OF WROUGHT P-AZ 5, 8 GC-UNI 3735 ALLOY 67-02 M18-62100
THE INFLUENCE OF ALLOYING ELEMENTS ON ALUMINUM ANODES IN SEA WATER 67-03 M18-65473
TESTS ON THE EFFECTS OF INDIUM FOR HIGH PERFORMANCE ALUMINUM ANODES 67-03 M18-65477
INHIBITION OF THE CORROSION OF ALUMINIUM-MANGANESE ALLOY.. STUDIES WITH THIOUREA AND DIPHENYL THIOUREA 67-03 M18-65681
CORROSION RESISTANCE OF ALUMINUM IN VARIOUS MEDIA. PT. 3 67-04 M18-66022
EFFECT OF A METHOD OF FEEDING CORROSIVE LIQUIDS ON THE CORROSION RESISTANCE OF AN ALUMINUM ALLOY 67-04 M18-66198
PRODUCTS, DEVELOPMENTS, APPLICATIONS FOR CORROSION ENGINEERING--FLAME-SPRAYED ALUMINUM COATINGS FOR MARINE ENVIRONMENTS 67-04 M18-66319
EFFECT OF RATE OF INGOT COOLING AFTER HOMOGENIZATION ON QUALITY OF D16 ALLOY TUBES 67-04 M18-66980
STUDY OF CORROSION RESISTANCE OF A VAD23 ALLOY 67-04 M18-67150
LOCAL CORROSION OF THE ANODE IN THE LOW TEMPERATURE HARD ANODIZING PROCESS OF ALUMINUM 67-04 M18-67594
IMPROVING STRESS CORROSION RESISTANCE OF WELDED AL-ZN-MG ALLOY BY USE OF SILVER-CONTAINING WELDING WIRE 67-04 M18-68027
AEROSOL CANS MADE OF AL--THEIR CORROSION AND INTERNAL PROTECTIVE COATING 67-04 M18-68124
INHIBITION OF CORROSION OF ALUMINIUM IN SULPHURIC ACID SOLUTIONS 67-04 M18-68166
STRESS-CORROSION OF EXPLOSIVELY DEFORMED HIGH STRENGTH ALLOYS 67-05 M18-68713
DESIGNING WITH ALUMINUM--ALLOYS FOR VARIOUS CORROSIVE ENVIRONMENTS 67-05 M18-68792
AIRCRAFT EXFOLIATION CORROSION--METHODS FOR PREVENTION IN FASTENER HOLES 67-05 M18-68797
EVALUATION OF ACCELERATED CORROSION TESTS FOR ANODIZED ALUMINIUM 67-05 M18-68823
FIVE-YEAR EXPOSURE TESTS ON ANODIZED ALUMINIUM IN A SEVERE INDUSTRIAL ATMOSPHERE 67-05 M18-68824
WEATHERING PIT FORMATION ON SURFACE OF AL SHEET. EFFECT OF DISSOLVED OXYGEN IN PURE WATER 67-05 M18-68869
INFLUENCE OF COPPER AND CHROMIUM ON CORROSION PROPERTIES OF AL-ZN-MG ALLOYS 67-05 M18-69006
EFFECTS OF ADDING SMALL AMOUNTS OF COPPER AND SILVER ON THE CORROSION OF AL-ZN-MG SYSTEM ALLOYS 67-05 M18-69053
INFLUENCE OF ACIDITY ON CORROSION OF AL-SB ALLOYS 67-05 M18-69832
TREATMENT INCREASES STRESS-CORROSION RESISTANCE OF ALUMINUM ALLOYS 67-06 M18-70014
CORROSION OF SOME METALS AND ALLOYS IN ALUMINUM ALLOY 67-06 M18-70177
INVESTIGATION OF THE TENDENCY OF HIGH-STRENGTH ALUMINUM ALLOYS TO STRESS CORROSION 67-06 M18-70191
THE CORROSION RESISTANCE OF SINTERED ALUMINUM POWDER 67-06 M18-70379
THE CORROSION-RESISTANCE OF NEW SINTERED ALUMINUM ALLOYS 67-06 M18-70380
ANODIC POLARIZATION BEHAVIOR OF PURE ALUMINUM AND SAP --SINTERED ALUMINUM POWDER-- IN HALIDE SOLUTIONS 67-06 M18-70790
PITTING DISSOLUTION BEHAVIORS OF PURE ALUMINUM AND SAP --SINTERED ALUMINUM POWDER-- IN WEAK ALKALINE AQUEOUS SOLUTIONS OF NACL 67-06 M18-70791
CAVITATION DAMAGE STUDIES WITH ROTATING DISK IN WATER 67-06 M18-71638
MECHANISM OF MICROBIOLOGICAL CORROSION OF ALUMINUM ALLOYS 67-06 M18-71690
A POSSIBLE ROLE FOR SULFATE REDUCERS IN THE CORROSION OF ALUMINUM ALLOYS 67-06 M18-71691
ALUMINUM CORROSION PROCESSES IN MICROBIAL CULTURES 67-06 M18-71692
THE EFFECT OF AL-CR AND AG-ZR ADDITIONS ON THE MECHANICAL PROPERTIES AND STRESS CORROSION BEHAVIOR OF HIGH-STRENGTH ALZNMGCU ALLOYS 67-06 M18-71984
OXIDE DISSOLUTION AND ITS EFFECT ON THE CORROSION OF 1100 ALUMINUM IN WATER AT 70 C 67-06 M18-72168
THE CORROSION OF 1100 ALUMINUM IN WATER FROM 50 TO 95 C 67-06 M18-72169
EVALUATION OF ALUMINUM PANELS EXPOSED IN THE PACIFIC OCEAN AT 2340 FEET FOR SIX MONTHS 67-07 M18-72483
INFLUENCE OF LOADING FREQUENCY ON ENDURANCE OF V95 ALUMINUM ALLOY IN THE PRESENCE OF SURFACTANTS 67-07 M18-73169
PRACTICAL CORROSION PROBLEMS IN RELATION TO WELDED JOINTS. PT. 1. SPECIAL CHARACTERISTICS OF THE WELDING PROCESS WHICH CAN CAUSE CORROSION PROBLEMS 67-08 M18-74701
CORROSION OF MECHANICAL JOINTS IN ALUMINIUM AND ALUMINIUM-STEEL STRUCTURES 67-08 M18-74704
HOW METALS RESIST SEA WATER 67-08 M18-74741
CORROSION BY MGCL2-BASED DE-ICING MEDIA 67-08 M18-74955
ALUMINUM GALVANIC ANODES. PT. 1 67-08 M18-75355
ALUMINUM GALVANIC ANODES. PT. 2 67-08 M18-75373
CORROSION OF AL ALLOYS AFTER BEING EXPOSED FOR FIVE YEARS IN DIFFERENT MARINE SITES 67-08 M18-75380
BUILDING CONSTRUCTION 67-08 M20-74823
A STUDY OF STRESS-CORROSION OF HIGH-RESISTANT LIGHT ALLOYS WITH REFERENCE TO THEIR SURFACE STRUCTURES

67-09 M18-76493
THE EFFECTS OF FREON-22 ON CERTAIN ALUMINUM ALLOYS AND NONMETALLIC SUBSTANCES 67-09 M18-76563
POLARIZATION AND STRESS-CORROSION STUDIES OF AN AL-CU-MG ALLOY 67-09 M18-76643
CORROSION FATIGUE OF STRUCTURAL METALS IN MINE SHAFT WATERS 67-09 M18-76741
NEW PROCESS SOLVES NITRATE CORROSION 67-09 M18-77376
COMPATIBILITY OF ATLAS MATERIALS WITH FLUORINE PROPELLANTS 67-09 M18-77564
INVESTIGATION OF CORROSION RESISTANCE OF METALS UNDER CONDITIONS OF SYNTHESIS OF PHENOL FROM TOLUOL 67-09 M18-77955
THE INFLUENCE OF IRON ON THE PROPERTIES OF AL-ZN-MG FOUNDRY ALLOYS 67-09 M18-78043
STRESS CORROSION IN ALUMINUM ALLOYS 67-10 M18-78474
CORROSION OF METALS BY FLOWING LIQUID FLUORINE COMPOUNDS 67-10 M18-78475
CORROSION OF METALS BY FLOWING LIQUID FLUORINE COMPOUNDS 67-10 M18-78495
INVESTIGATION OF THE CORROSION BEHAVIOR OF SOME ALUMINUM ALLOYS IN FLOWING WATER AT 240 C 67-10 M18-78681
THE CORROSION BEHAVIOR OF ALUMINUM CASTING ALLOYS. THE EFFECT OF SMALL ALLOYING ADDITIONS, PARTICULARLY COPPER 67-10 M18-79388
AQUEOUS CORROSION BEHAVIOR OF LIGHT ALLOYS 67-10 M18-79932
GALVANIC CORROSION CHARACTERISTICS OF ALUMINUM ALLOYED WITH GROUP 4 METALS 67-10 M18-79962
APPLICABILITY OF ALUMINUM FOR DESALINATION PLANTS 67-11 M18-80291
STRESS CORROSION OF EXPLOSIVELY DEFORMED HIGH-STRENGTH ALLOYS 67-11 M18-80296
ELECTRODE POTENTIALS AND DATA FROM CORROSION TESTING OF AL-MN ALLOYS IN NEUTRAL WEAK-ACID AND ALKALINE SOLUTIONS 67-11 M18-80452
EFFECT OF CYCLICAL STRESSES ON THE AMOUNT OF TOTAL ELECTRODE POTENTIAL OF AN ALUMINUM ALLOY 67-11 M18-80586
EFFECT OF PROIR CORROSION ON THE FATIGUE LIMIT OF D16 ALUMINUM ALLOY 67-11 M18-80587
THE ATMOSPHERIC CORROSION OF ALUMINIUM AND ITS ALLOYS. RESULTS OF SIX-YEAR EXPOSURE TESTS 67-11 M18-80693
ATMOSPHERIC EXPOSURE OF LIGHT METALS 67-11 M18-80695
ATMOSPHERIC EXPOSURE OF NONFERROUS METALS AND ALLOYS--ALUMINUM SEVEN YEAR DATA 67-11 M18-81124
INFLUENCE OF THE TYPE OF CORROSION MEDIUM ON THE CORROSION-CRACKING SUSCEPTIBILITY OF AMG-6 ALUMINUM ALLOYS 67-11 M18-81278
CORROSION OF ALUMINUM ALLOYS IN CONTACT WITH STEELS AND LININGS OF PETROLEUM VESSELS 67-11 M18-81284
ATMOSPHERIC EFFECTS CAN BE CORRELATED 67-11 M18-81360
PERFORMANCE OF ALUMINUM ALLOYS AT OTHER TEST SITES 67-11 M18-81520
THE EFFECT OF INITIAL WEATHER CONDITIONS ON THE ATMOSPHERIC CORROSION OF ALUMINUM AND ITS ALLOYS 67-11 M18-81522
ATMOSPHERIC CORROSION TESTS IN SWEDEN. HARD ROLLED ALUMINUM ALLOYS 67-11 M18-81523
NEW ASPECTS OF THE USE OF CAST AL ALLOYS 67-11 M18-81546
THE EFFECT OF SMALL ADDITIONS OF COPPER ON THE CORROSION RESISTANCE OF ALUMINIUM AND ALUMINIUM ALLOYS 67-12 M18-81965
INTERACTION OF DISLOCATIONS WITH COHERENT PARTICLES AND STRESS CORROSION CRACKING OF HIGH-STRENGTH ALUMINUM ALLOYS 67-12 M18-82016
CORROSION FATIGUE STRENGTH OF DURALUMIN IN THE PRESENCE OF STRESS CONCENTRATORS 67-12 M18-82187
INFLUENCE OF PH ON THE CORROSION BEHAVIOR OF ALUMINUM-ANTIMONY ALLOYS 67-12 M18-82266
NICOTIC ACID AS AN INHIBITOR OF THE CORROSION OF ALUMINIUM-MAGNESIUM ALLOYS IN HYDROCHLORIC SOLUTIONS 67-12 M18-82297
ATMOSPHERIC STRESS CORROSION TESTING OF ALUMINUM ALLOYS 67-12 M18-82452
USE OF THE DEFORMED AD33 ALUMINUM ALLOY FOR LARGE COMPONENTS FOR USE AT SEA 67-12 M18-82495

ALUMINUM BASE ALLOYS, CRYOGENIC PROPERTIES

A VERSATILE ALUMINUM ALLOY FOR CRYOGENIC APPLICATIONS 67-09 M01-77302

ALUMINUM BASE ALLOYS, CRYSTAL DEFECTS

THE DISLOCATION STRUCTURES OF THE BROAD FACES OF WIDMANSTATTEN GAMMA PLATES IN AN AL-15 PER CENT AG ALLOY 67-04 M14-66538
EXPERIMENTAL TECHNIQUES USED TO STUDY LATTICE DEFECTS IN AL-MG ALLOYS 67-09 M13-78291

ALUMINUM BASE ALLOYS, CRYSTAL GROWTH

A TECHNIQUE FOR GROWING SINGLE CRYSTALS OF AL-4 PER CENT CU OF A CHOSEN ORIENTATION 67-03 M14-65722
IDENTIFICATION AND GROWTH TOPOLOGY OF CRYSTALS DEPOSITED IN AN AL-CU-AG ALLOY 67-04 M14-66395
THE EFFECT OF ULTRASOUND ON THE CRYSTALLIZATION OF METALS AND ALLOYS DURING SOLIDIFICATION AND STRUCTURAL VARIATIONS TAKING PLACE IN THE SOLID STATE 67-06 M14-71112
EFFECTS OF COOLING RATE DURING THE SOLIDIFICATION OF SOLID SOLUTIONS ON THE COMPOSITION OF THE AXIAL REGIONS OF DENDRITE BRANCHES 67-09 M14-76888
EFFECT OF THE SOLUTE CONTENT ON THE DENDRITIC STRUCTURE IN COLUMNAR CRYSTALS OF BINARY ALLOY 67-09 M14-78230
SOLIDIFICATION OF THE ALUMINIUM SILICON ALLOYS AND THE EFFECT OF ADDITION ELEMENTS. PT. 2 67-12 M14-81966
NOTE ON THE KINETICS OF RECRYSTALLIZATION AS EXPRESSED BY THE AVRAMI FORMULA 67-12 M14-83587

ALUMINUM BASE ALLOYS, CRYSTAL LATTICES

CLIMB SOURCES IN QUENCHED ALUMINUM AND IN ALUMINUM-0.5 PER CENT SILVER ALLOY 67-01 M13-57124
EFFECT OF SMALL QUANTITIES OF ADDED IMPURITIES ON THE DISLOCATION STRUCTURE OF ALUMINUM SINGLE CRYSTALS 67-01 M13-57660
DISLOCATIONS IN THE THETA --CUAL2-- PHASE COEXISTING WITH ALUMINUM 67-01 M13-58327
ON THE AGING PHENOMENA AND LATTICE DEFECTS IN ALUMINIUM ALLOYS. --REPORT 2--. INFLUENCE OF CR, MN AND ZR ON THE PREPRECIPITATION IN AL-ZN ALLOYS 67-01 M14-57454
STRUCTURAL INVESTIGATIONS ON PRECIPITATION AT ROOM AND AT ELEVATED TEMPERATURE. QUANTITATIVE ANALYSIS OF LATTICE DIRECTIONS IN SPHERICAL GUINIER-PRESTON ZONES 67-02 M14-60118
FRICTIONAL WEAR IN FCC METAL SINGLE CRYSTALS 67-02 M14-60142
THE AGING OF AL-3.5 PER CENT CU ALLOY UNDER THE CYCLIC LOADS 67-02 M14-60664
THE STRUCTURE OF A METASTABLE, TRIGONAL TRANSITION PHASE IN QUENCHED ALUMINUM-29 AT . PER CENT ZINC 67-02 M14-61820
THE EFFECT OF SIZE DISTRIBUTION OF GUINIER-PRESTON ZONES ON THE DIFFUSION SCATTERING INTENSITY OF X-RAY BEAMS 67-02 M14-62096
IDENTIFICATION OF CRYSTALS OF PHASES PRECIPITATING IN AN AL-CU-AG ALLOY AND THE TOPOLOGY OF THEIR GROWTH 67-04 M13-66868
FURTHER EXPERIMENTS ON THE DISLOCATION INTERNAL FRICTION PEAKS WITH ANOMALOUS AMPLITUDE EFFECT IN AL-0.5 PER CENT CU ALLOY AND THE DISLOCATION KINK ATMOSPHERE MODEL 67-04 M17-67027
EFFECT OF THE ANNULAR PRISMATIC DISLOCATION DIAMETER ON DEFORMATION RESISTANCE OF 3.5 MG-AL ALLOY SOLUTION TREATED AT 600 C 67-04 M17-68000
A STUDY ON THE THERMAL REDUCTION OF MG BY SI. PT. 1. EFFECTS OF ADDITIONS 67-05 M13-68892
INTERSECTING OF STACKING FAULTS 67-05 M13-69459
SURFACE OXIDE FILMS AND THE LIFETIME OF VACANCIES IN THIN CRYSTALS 67-05 M14-68752
INTERACTION BETWEEN DISLOCATIONS AND THETA-PRIME PRECIPITATES IN AN AL-CU ALLOY 67-05 M14-68871
ELECTRON MICROSCOPIC INVESTIGATION ON PRECIPITATION PHENOMENA IN AL-ZN ALLOY 67-05 M14-68879
AGING CHARACTERISTICS AND EFFECTS OF PLASTIC DEFORMATION ON PRECIPITATION IN AL-4 PER CENT CU AND AL-20 PER CENT AG ALLOYS WITH OR WITHOUT TRACE ELEMENTS 67-05 M14-68880
INFLUENCE OF YTTRIUM ON THE RECRYSTALLIZATION BEHAVIOR OF HIGH-PURITY AL 67-05 M14-68891
STUDY OF QUENCHED-IN VACANCIES IN DILUTE AL-ZN ALLOYS 67-05 M14-68893
TEMPERATURE DEPENDENCE OF THE MEAN SQUARE STATIC

DISPLACEMENT OF ATOMS IN HOMOGENEOUS SOLID SOLUTIONS 67-05 M16-68239
INVESTIGATION OF SUZUKI ATMOSPHERES IN COPPER-ALUMINUM ALLOYS BY SMALL-ANGLE X-RAY SCATTERING METHOD 67-06 M13-70330
DEUTERON-IRRADIATION EFFECTS IN AL-4 WT. PER CENT CU 67-06 M14-70438
PRECIPITATION FROM COLD-WORKED STRUCTURES 67-06 M14-70439
RECOVERY PHENOMENA IN COLD WORKED ALUMINIUM--ALUMINA ALLOYS 67-06 M14-70889
OBSERVATIONS OF G-P ZONE REVERSION IN AL-ZN-MG ALLOYS BY SMALL-ANGLE X-RAY SCATTERING AND TRANSMISSION ELECTRON MICROSCOPY 67-06 M14-71423
INVESTIGATION BY MEANS OF THE ELECTRON MICROSCOPE OF PRECIPITATION IN AL-CU SOLID SOLUTIONS. PT. 3. THE DIAGRAM FOR THE FORMATION OF NUCLEI IN AL-CU ALLOYS 67-06 M14-71835
ON QUENCHED-IN RESISTIVITY IN SAP 67-06 M15-70434
THE STACKING FAULT DENSITY IN SOLID SOLUTIONS BASED ON COPPER, SILVER, NICKEL, ALUMINIUM AND LEAD 67-07 M13-73906
RELAXATION SPECTRUM OF DEFORMED AL PLUS 0.25 WT PER CENT FE 67-07 M13-73983
GRAIN BOUNDARY MIGRATION AND GROWTH OF GAS BUBBLES IN NEUTRON IRRADIATED AL-LI ALLOYS 67-07 M14-74197
EXPERIMENTAL STUDIES ON DYNAMIC MULTIPLE REFLECTIONS OBSERVED IN THIN FILMS OF METALS AND ALLOYS BY ELECTRON DIFFRACTION 67-08 M13-74414
DIRECT OBSERVATION OF THE MULTIPLICATION OF DISLOCATIONS IN THIN FOILS OF ALUMINIUM-BASED ALLOYS 67-08 M13-74420
X-RAY AND ELECTRON DIFFRACTION 67-08 M13-74813
MOVEMENT OF DISLOCATIONS AND CROSS-SLIP IN AL-MG ALLOYS 67-08 M13-75075
STUDY OF THE RECOVERY PHENOMENON IN AL-AG ALLOY 67-08 M14-74632
THE AGING PHENOMENA AND LATTICE DEFECTS IN ALUMINIUM ALLOYS. INFLUENCE OF THE THIRD ADDITIONAL ELEMENTS ON THE FORMATION OF GP ZONES IN AL-ZN ALLOY 67-08 M14-75766
INTERFACIAL STRUCTURE OF THETA PRECIPITATES IN AL-4 PER CENT CU 67-09 M13-77935
INTERACTION BETWEEN THIRD ADDITION ELEMENTS AND G. P. ZONES IN AL-ZN ALLOYS 67-09 M14-77999
DETERMINATION OF SOLUTE ATOM-VACANCY BINDING ENERGY IN AL-MN 1.04 PER CENT DILUTE ALLOY 67-09 M16-77598
CLUSTERING IN AL-G. P. ZONE ALLOYS AFTER LOW TEMPERATURE IRRADIATION 67-09 M16-77937
ON THE NATURE OF RECOVERY STAGE 3 IN IRRADIATED AL 67-09 M16-77938
THE CALCULATION OF VACANCY CONCENTRATIONS IN DISPERSION-HARDENED ALUMINUM ALLOYS 67-10 M13-78319
PRECIPITATION IN ALUMINUM-GOLD 67-11 M13-81589
SOLUTE-VACANCY INTERACTION IN AGE-HARDENING ALLOYS 67-11 M15-81122
DECOMPOSITION OF HELICAL DISLOCATIONS 67-12 M13-82551
ON THE AGING PHENOMENA AND LATTICE DEFECTS IN ALUMINUM ALLOYS. PT. 5. INFLUENCE OF ADDITIONAL ELEMENTS ON THE FORMATION OF GP ZONE IN AL-ZN-MG ALLOY 67-12 M14-82135

ALUMINUM BASE ALLOYS, CRYSTALLIZATION
EFFECT OF ULTRASONICS ON THE CRYSTALLIZATION OF METALS AND ALLOYS IN THE SOLIDIFICATION PERIOD AND CHANGES IN STRUCTURE IN THE SOLID STATE 67-01 M14-57157
EFFECT OF AL2O3 CONTENT AND DEFORMATION CONDITIONS ON RECRYSTALLIZATION OF SAP 67-02 M14-61560
THE EFFECT OF PRECIPITATION OF MNAL6 UPON THE RECRYSTALLIZATION CHARACTERISTICS OF ALUMINUM-MANGANESE ALLOYS 67-04 M14-66947

ALUMINUM BASE ALLOYS, CUTTING
GAS-ELECTRIC CUTTING OF ALUMINUM ALLOYS IN THICKNESSES TO 150 MM 67-02 M11-59529
PLASMA ARC CUTTING OF ALUMINIUM ALLOYS 67-02 M11-60013
MANUAL PLASMA ARC CUTTING OF ALUMINIUM 67-02 M11-60014
GAS-ELECTRIC CUTTING OF ALUMINUM ALLOYS IN AN ARGON-AMMONIA MIXTURE 67-02 M11-61272
GAS-ELECTRIC CUTTING OF ALUMINUM ALLOYS UP TO 150 MM THICK 67-04 M11-66478
MEASURING FIELD INTENSITY IN A PERMEATING ARC 67-04 M11-67005
ARC POWER SUPPLY FOR PLASMA-ARC CUTTING OF METALS 67-04 M11-67018
PLASMA ARC CUTTING OF ALUMINIUM ALLOYS IN A MIXTURE OF ARGON AND AMMONIA 67-05 M11-68272
FIELD STRENGTH MEASUREMENTS IN THE PENETRATING ARC 67-08 M11-74764
A POWER SOURCE FOR PLASMA ARC CUTTING 67-08 M11-74777

ALUMINUM BASE ALLOYS, CYLINDERS
MANUFACTURE AND INSPECTION OF THE ALUMINUM ALLOY CYLINDERS FOR COMPRESSED GASES BY THE NEW STANDARDS 67-06 M19-71446

ALUMINUM BASE ALLOYS, DEFECTS
ELECTRON MICROSCOPE OBSERVATIONS OF GAS BUBBLES IN NEUTRON IRRADIATED AL-LI ALLOYS 67-04 M13-66603

ALUMINUM BASE ALLOYS, DEFORMATION
EFFECT OF CERTAIN CONDITIONS OF HEAT TREATMENT ON THE CONSTANCE OF DIMENSIONS OF CSN 424400 AND 424331 ALUMINUM ALLOYS 67-02 M17-58988

ALUMINUM BASE ALLOYS, DEGASSING
DEGASSING ABILITY OF FREON 12 --CCL2F2-- AND NITROGEN-FREON 12 GAS MIXTURE. PT. 2. STUDIES ON DEGASSING MEDIUM FOR ALUMINUM 67-06 M06-71214

ALUMINUM BASE ALLOYS, DIFFUSION
METHOD OF INVESTIGATING THE KINETICS OF THE INTERACTION OF TWO LIQUID PHASES UNDER CONTROLLED CONVECTION CONDITIONS 67-12 M14-82105

ALUMINUM BASE ALLOYS, DIMENSIONAL STABILITY
EFFECT OF THERMAL CYCLING ON DIMENSIONAL STABILITY OF D16 AL ALLOY 67-02 M15-59769
THE EFFECT OF THERMAL CYCLES ON THE STABILITY OF THE SIZES OF THE D16 ALLOY 67-08 M15-76127

ALUMINUM BASE ALLOYS, DISPERSION HARDENING
HOT EXTRUDED AND COLD ROLLED TEXTURES OF DISPERSION ALLOY, AL-AL2O3 --SAP-- 67-02 M13-59982
THE INFLUENCE OF PARTICLE SIZE IN DISPERSION HARDENING. STUDIES ON AL-MN AND AL-NI ALLOYS 67-08 M14-75321

ALUMINUM BASE ALLOYS, DROSSING
DROSS FORMATION IN ALUMINUM AND ALUMINUM ALLOY MELTS IN RELATION TO THE OXYGEN SUPPLY 67-04 M03-67063

ALUMINUM BASE ALLOYS, ELECTRICAL PROPERTIES
QUENCHING OF VACANCIES IN PURE ALUMINIUM AND IN DILUTE ALUMINIUM-INDIUM AND ALUMINIUM-MAGNESIUM ALLOYS 67-01 M15-57478
TEMPERATURE DEPENDENCE OF ELECTRICAL RESISTIVITY OF SOME ALUMINUM-SILICON ALLOYS 67-02 M15-60900
STRUCTURAL CHARACTERISTICS OF SOME ELECTRODEPOSITED ALUMINUM-MANGANESE ALLOYS 67-03 M15-65655
THE EFFECT OF TRANSITION METAL IMPURITIES ON THE RESIDUAL RESISTIVITY OF AL, ZN, IN AND SN 67-03 M15-65687
HIGH ELECTRICAL CONDUCTIVITY AND HIGH HEAT RESISTIVITY OF SOME AL ALLOYS 67-04 M15-67575
TECHNICAL AND ECONOMIC COMPARISON BETWEEN ALUMINUM ALLOY CONDUCTOR AND ACSR 67-04 M15-68028
THE RELATION BETWEEN DAMPING BEHAVIOR AND CONSTITUTION OF QUENCHED ALUMINIUM-COPPER-MAGNESIUM-SILICON ALLOYS 67-05 M15-68694
ELECTRICAL RESISTIVITY OF ALLOYS OF THE SYSTEM AL-SI-CU-MG AS A FUNCTION OF THE HEAT TREATMENT CONDITIONS 67-05 M15-68835
STUDIES ON THE PHYSICAL METALLURGY OF AL-AG BINARY ALLOY 67-05 M15-68897
ELECTRICAL RESISTANCE AND DEFECTS IN CU-AL ALLOYS AT LOW TEMPERATURES 67-05 M15-69648
VACANCY TIN BINDING IN DILUTE ALUMINUM-TIN ALLOYS 67-05 M16-69098
THE RECENT DEVELOPMENTS OF ALUMINIUM CONDUCTORS IN FRANCE IN PUBLIC DISTRIBUTION AND INDUSTRIAL PLANTS 67-05 M20-68495
RESISTIVITY EXAMINATION OF ARTIFICIAL AGEING IN AN ALUMINIUM-COPPER-CADMIUM ALLOY 67-07 M15-72814
INVESTIGATION OF THE ELECTRICAL CONDUCTIVITY OF ALUMINUM ALLOYS HAVING SILICON AS THE MAIN ALLOYING ELEMENT 67-09 M15-77034
ON ANODIC POLARIZATION OF ALUMINUM AND ITS ALLOYS OF THE SYSTEM FE-SI-AL IN CHLORIDE-FLUORIDE MELTS 67-11 M15-81450
ANODIC POLARIZATION OF AL-SI-FE ALLOYS IN CHLORIDE MELTS 67-11 M15-81451

AN ELECTROINDUCTION METHOD OF CHECKING THE SPECIFIC ELECTRICAL RESISTANCE OF ALUMINUM INGOTS FOR WIRE 67-12 M15-82307
ALUMINUM BASE ALLOYS, ELECTRON MICROSCOPY
ELECTRON MICROSCOPIC INVESTIGATION OF AL-ZN-MG ALLOYS 67-02 M14-59761
ALUMINUM BASE ALLOYS, ELECTROREFINING
COMBINED LIQUATION-ELECTROLYTIC METHOD OF REFINING ALUMINUM ALLOYS 67-12 M03-83100
ALUMINUM BASE ALLOYS, EMISSION
EXO-ELECTRONIC EMISSION OF STRAINED ALUMINUM AND D16 ALLOY 67-06 M16-72118
ALUMINUM BASE ALLOYS, EXTRUSION
EXTRUDING ALUMINUM ALLOYS THROUGH A WATER-COOLED DIE 67-01 M07-57242
ANNALYTICAL DETERMINATION OF STRAIN FORCES IN TUBE EXTRUSION 67-01 M07-57316
PRODUCTION OF THIN-WALLED TUBES OF RECTANGULAR SECTION DIRECTLY FROM THE MELT 67-01 M07-58199
EXTRUSION AND FORMING UNDER HIGH FLUID PRESSURES 67-01 M07-58672
INFLUENCE OF THE STATE OF THE BILLETS ON THE PROPERTIES OF COLD PRESSED ALUMINUM ALLOY PRODUCTS 67-02 M08-59771
EXTRUDED BIMETALLIC FINNED TUBES 67-02 M08-59817
FABRICATION OF VARIOUS TYPES OF AEROSOLS 67-02 M08-59819
MEASUREMENT OF ALUMINIUM EXTRUSION TEMPERATURES--COLLABORATIVE WORKS TRIALS OF A COMMERCIAL LEAD SULPHIDE-CELL INSTRUMENT 67-02 M08-61292
ON THE FRACTURE OF LOW-PLASTICITY MATERIALS DURING PRESSING 67-04 M07-67044
PROGRESS IN IMPACT EXTRUSION 67-04 M08-66408
HAVE YOU CONSIDERED CUT-OFF EXTRUSIONS 67-04 M20-68135
THE HIGH-SPEED EXTRUSION OF SOME COMMON METALS 67-05 M08-68719
DESIGN FACTORS FOR EXTRUSIONS 67-08 M07-74819
EXTRUSION 67-08 M07-74840
DEPENDENCE OF THE PROPERTIES OF EXTRUDED SEMI-FINISHED PRODUCTS MADE FROM ALUMINUM ALLOYS ON THE STATE OF THE BILLETS 67-08 M07-76129
RESEARCH ON A BACKWARDS CUP-EXTRUSION PRESS 67-08 M07-76300
DESIGN FACTORS FOR IMPACT EXTRUSIONS 67-08 M08-74820
IMPACT EXTRUSION 67-08 M08-74841
RAILROAD EQUIPMENT 67-08 M20-74829
DESIGN FACTORS FOR ALUMINUM EXTRUSIONS 67-09 M07-77182
A STUDY OF THE FABRICATION OF A FUEL ELEMENT FOR THE BR-2 REACTOR BY COEXTRUSION AND DRAWING 67-09 M07-78262
PRESSING OF ALUMINUM ALLOY TUBES WITH APPLICATION OF A SHIFTABLE MANDREL 67-10 M07-79042
INVESTIGATION OF THE EXTRUDABILITY AND GRAIN COARSENING SUSCEPTIBILITY OF ALMGSI1 ALLOYS 67-10 M08-79383
INFLUENCE OF BILLET GEOMETRY ON WALL THICKNESS VARIATION IN EXTRUDED TUBES 67-11 M07-80756
SHAPING OF METALS BY EXTRUSION 67-12 M07-82044
ALUMINUM BASE ALLOYS, EXTRUSIONS
THE ALUMINIUM EXTRUDED SECTION AND ITS USE AS A STRUCTURAL ELEMENT 67-04 M20-66606
ALUMINUM BASE ALLOYS, FASTENERS
RIVETING AND OTHER MECHANICAL FASTENING 67-08 M20-74848
ALUMINUM BASE ALLOYS, FATIGUE /MATERIALS/
SHOT-PEENING AIDS FATIGUE LIFE 67-06 M17-71929
ALUMINUM BASE ALLOYS, FATIGUE TESTS
FATIGUE APPARATUS FOR EXTREME HIGH VACUUM 67-06 M17-70550
ALUMINUM BASE ALLOYS, FIBER METALLURGY
INFLUENCE OF CONSTITUENT PROPERTIES UPON THE STRUCTURAL EFFICIENCY OF FIBROUS COMPOSITE SHELLS 67-01 M17-58521
CERAMIC WHISKERS REINFORCE ALUMINUM CASTINGS 67-05 M06-69886
ALUMINUM BASE ALLOYS, FILTRATION
FILTERING SECONDARY ALUMINUM ALLOYS 67-04 M03-67510
ALUMINUM BASE ALLOYS, FORGING
FEASIBILITY OF FLASHLESS DIE FORGING WITHOUT COMPENSATORS ON CRANK PRESSES 67-01 M07-57244
CHARACTERISTICS OF THE PROCESS OF UPSETTING UNDER PULSATING LOADS 67-04 M07-67043
EVALUATING THE EFFECTIVENESS OF LUBRICATION IN UPSETTING ON MECHANICAL PRESSES 67-04 M08-67041
THE CLASSIC FORGE 67-05 M07-69314
DROP FORGING. A SURVEY OF THE INDUSTRY IN THE U. K. 67-07 M07-72759
DESIGN FACTORS FOR FORGINGS 67-08 M07-74821
PIERCE FORGING ENTERS ALUMINUM FORMING LINEUP 67-12 M07-82042
LIGHT METALS HEAVY PRESS FORGINGS 67-12 M07-82274
FORGING INDUSTRY STANDARDS. A BUYER SERVICE 67-12 M07-82701
ALUMINUM BASE ALLOYS, FORGINGS
ALUMINUM HAND FORGINGS--HOW THEY DIFFER, HOW THEY ARE MADE, HOW THEY ARE USED 67-01 M07-57929
ELECTRON FRACTOGRAPHY PINPOINTS CAUSE OF FATIGUE FRACTURE 67-05 M13-68677
ALUMINUM BASE ALLOYS, FORMING
REDUCTION OF TOOL COST BY UTILIZATION OF STAMPED PARTS 67-02 M08-59802
TRANSITION BETWEEN THEORY AND PRACTICE IN ULTRASONIC METAL DEFORMATION PROCESSING 67-03 M08-65812
ELECTRICAL METALFORMING. PT. 4 67-04 M07-67226
THE EXPLOSIVE DRAWING OF SQUARE AND FLAT-BOTTOMED CIRCULAR CUPS AND BUBBLE PULSATION PHENOMENA 67-05 M08-69741
SOME ASPECTS OF HIGH ENERGY RATE FORMING RESEARCH AT R. A. R. D. E. 67-05 M08-69750
COMPARATIVE TEXTURES OF SLOWLY AND EXPLOSIVELY LOADED METALS 67-05 M13-69745
INFLUENCE OF THE VIBRATION METHOD OF DEFORMATION ON THE STRUCTURE OF METALS 67-08 M07-76028
FORMING BAR, TUBE, SHAPES AND WIRE 67-08 M08-74844
THE PHOTOFABRICATION OF THIN METAL PARTS 67-09 M08-76494
DEFORMATION OF ALUMINUM BOTTOMS DURING STAMPING AND SUBSEQUENT FORMING 67-09 M08-77130
CONTROL OF SPRINGBACK BY POSITIVE EDGE RESTRAINT DURING HIGH ENERGY DEFORMATION 67-10 M08-79527
EXPLOSIVE FORMING AT NORTH AMERICAN AVIATION 67-11 M08-80680
ALUMINUM BASE ALLOYS, GAS ANALYSIS
A MODERN DEVICE FOR DETERMINATION OF HYDROGEN CONTENT OF ALUMINUM MELTS 67-09 M19-77075
ALUMINUM BASE ALLOYS, HARDENING
STUDY OF HARDENING OF SINTERED ALUMINUM POWDER --SAP-- 67-01 M09-58192
SOME CHARACTERISTICS OF THE AGING OF ALUMINUM ALLOYS CONTAINING COPPER AND MAGNESIUM 67-01 M14-57636
EXPLOSIVE SHOCK HARDENING.. NEW TOOL SHOWS PROMISE 67-02 M17-60246
STRENGTHENING ALUMINIUM ALLOYS AV AND V95 BY THERMOMECHANICAL TREATMENT 67-02 M17-61175
EFFECT OF CADMIUM ADDITIVES ON THE ARTIFICIAL AGING OF SOME ALUMINUM ALLOYS 67-04 M14-67147
ALUMINUM BASE ALLOYS, HEAT TREATMENT
COPPER ALLOY INSERTS IN A-S10 G 67-01 M06-58622
UNITS FOR SHEET QUENCHING AL ALLOYS 67-01 M10-57279
NEW TYPE OF PRECIPITATION TREATMENT FURNACE FOR ALUMINIUM HEATED BY GAS, OIL OR ELECTRICITY 67-01 M10-57459
THE HEAT TREATING OF LIGHT METALS 67-01 M10-58012
ELECTRON MICROSCOPY OF PRECIPITATES IN ALUMINUM ALLOYS 67-01 M13-57988
STRUCTURAL INVESTIGATION OF AGING ATSM AND V92 ALLOYS 67-02 M14-62085
THE INFLUENCE OF HEAT TREATMENT ON THE EXTRUDING BEHAVIOR OF INGOTS OF ALMGSI 0 5 67-02 M17-60873
HEAT TREATMENTS OF ALUMINUM ALLOYS 67-03 M10-65949
TESTING COMMERCIAL LUBRICANTS FOR TENDENCY TOWARDS CARBON FORMATION DURING ANNEALING OF ALUMINUM SHEETS 67-04 M10-66979
INTERRUPTED QUENCHING OF ALUMINUM ALLOYS 67-04 M10-67726
EFFECT OF HEAT CYCLING ON PROPERTIES AND STRUCTURE OF ALLOYS CONTAINING PHASES WITH VARIOUS COEFFICIENTS OF LINEAR EXPANSION 67-04 M10-67922

ALUMINUM BASE ALLOYS

IMPROVED HIGH-STRENGTH ALUMINUM FORGING ALLOY
67-04 M10-68132
INFLUENCE OF SOLIDIFICATION RATE ON GRAIN REFINEMENT OF CAST STRUCTURE OF 22 PER CENT SI-AL ALLOY WITH OR WITHOUT PHOSPHORUS ADDITIONS
67-05 M06-68875
INFLUENCE OF PHOSPHORUS ON GRAIN REFINEMENT OF CAST STRUCTURE OF 22 PER CENT SI-AL ALLOY
67-05 M06-68876
INFLUENCE OF MELTING CONDITION AND ADDITION TEMPERATURE ON GRAIN REFINEMENT OF CAST STRUCTURE OF 22 PER CENT SI-AL ALLOY WITH PHOSPHORUS ADDITION
67-05 M06-68877
CONSIDERATIONS ON THE BEHAVIOR OF PHOSPHORUS FOR THE GRAIN REFINEMENT OF 22 PER CENT SI-AL ALLOY
67-05 M06-68878
ANNEALING OF COLD ROLLED AL ALLOYS. PT. 2. STUDY ON AL-CU, AL-FE ALLOYS
67-05 M10-68866
ANNEALING OF COLD ROLLED AL ALLOYS. PT. 3. STUDY ON AL-MN, AL-SN ALLOYS
67-05 M10-68867
SELECTING OPTIMUM HOMOGENIZATION TIME BY THE STRUCTURAL CHARACTERISTICS OF THE CAST ALLOY
67-05 M10-68971
HEAT TREATMENT OF AK6 ALUMINUM ALLOY ARTICLES IN HOT MEDIA
67-06 M10-70353
HEAT TREATMENT OF WROUGHT ALUMINUM ALLOYS
67-06 M10-71909
HEAT TREATMENT OF NONFERROUS ALLOYS
67-06 M10-71935
EQUIPMENT FOR THERMAL TREATMENT OF NONFERROUS METAL STRIP IN THE FORM OF A CONTINUOUS STRAND
67-06 M10-71941
USER IDEAS ON THE DESIGN OF HEAT TREATMENT FURNACES FOR NONFERROUS METALS
67-06 M10-71943
HEAT TRANSMISSION IN REHEATING AND HEAT-TREATMENT FURNACES--SOME RECENT DEVELOPMENTS
67-06 M10-71944
HEAT TREATMENT AS AN AID TO WELDING
67-06 M11-71940
RECRYSTALLIZATION CHARACTERISTICS OF AL-0.3 PER CENT ZR ALLOYS
67-06 M14-71212
INVESTIGATION BY MEANS OF THE ELECTRON MICROSCOPE OF PRECIPITATION IN AL-CU SOLID SOLUTIONS. PT. 4. PRECIPITATION IN DEFORMED AL PLUS 1.3 AT. PER CENT --3 WT. PER CENT -- CU-SOLID SOLUTIONS
67-06 M14-71836
INVESTIGATION BY MEANS OF THE ELECTRON MICROSCOPE OF PRECIPITATION IN AL-CU SOLID SOLUTIONS. PT. 2. THE FORMATION OF THETA DOUBLE PRIME, THETA AND THETA PRIME PHASES IN AL-CU SOLID SOLUTIONS
67-06 M14-71987
COMMENTS ON THE INFLUENCE OF PLASTIC STRAIN ON AGING KINETICS
67-06 M14-72237
CRYOGENIC QUENCHING
67-07 M10-74225
OBSERVATIONS ON THE ISOTHERMAL ANNEALING PROCESSES OCCURRING IN COLD DRAWN ALUMINUM-2WT PER CENT MAGNESIUM ALLOY
67-07 M14-72908
DUPLEX AGING--THE WAY TO STRONG, CORROSION RESISTANT ALUMINUM ALLOYS
67-08 M10-74495
CHANGES IN STRUCTURE AND PROPERTIES OF AL-5 PER CENT ZN-1 PER CENT MG AND AL-5.5 PER CENT GE ALLOYS DURING AGING
67-08 M10-74628
X-RAY EXAMINATION OF THE INITIAL AGING STAGE IN AL-25 PER CENT ZN ALLOY
67-08 M10-74633
THE METALLURGY OF HEAT TREATMENT
67-08 M10-74806
HEAT TREATING
67-08 M10-74846
STRESS RELIEVING AND STRESS CONTROL
67-08 M10-74847
CRYOGENIC QUENCHING CUTS WARPAGE
67-08 M10-75000
EFFECT OF REST BEFORE ARTIFICIAL AGING ON THE STRUCTURE OF AL-ZN-MG ALLOYS
67-08 M10-75261
THE ABNORMALLY INTENSIVE DEVELOPMENT OF POROSITY IN AL-CU ALLOY
67-08 M10-75276
CONTRIBUTION TO THE PRACTICE OF QUENCH HARDENING OF SEMIFINISHED PRODUCTS MADE OF AGE HARDENABLE LIGHT METALS. PT. 2
67-08 M10-75323
COMPARATIVE STUDY BY MEANS OF MECHANICAL TESTS, ELECTRON MICROSCOPY AND RESISTIVITY MEASUREMENTS OF THE AGING OF SOLID SOLUTIONS OF ALUMINUM
67-08 M14-76226
A COMPARISON OF THE EFFECTS OF COLD WORK BY ROLLING AND BY SHOCK WAVES ON PRECIPITATION HARDENING IN AL-6 PER CENT CU ALLOY
67-09 M10-77735
AGING CHARACTERISTICS OF SOME ALUMINIUM-ZINC-MAGNESIUM ALLOYS
67-09 M10-78136
ELECTRON-MICROSCOPIC INVESTIGATION OF PRECIPITATION FROM DEFORMED ALUMINUM ALLOYS
67-09 M10-78181
INFLUENCE OF DEFORMATION AFTER QUENCHING ON THE MECHANICAL PROPERTIES AND CREEP STRENGTH OF ALUMINUM ALLOYS USED IN AERONAUTICS
67-09 M17-76381
THE PRECIPITATION IN ALUMINUM-ZINC-MAGNESIUM ALLOYS
67-10 M10-79147
THE AGING MECHANISM IN AL-CU-MG ALLOY
67-10 M10-79220
THE AGE-HARDENING OF AL-AG-CU ALLOYS
67-10 M10-79384
EFFECTS AND TECHNOLOGY OF THE QUENCHING OF HARDENABLE LIGHT-METAL SEMIPRODUCTS. PT. 1
67-10 M10-79386
THE ANNEALING OF QUENCHED-IN VACANCIES IN DILUTE ALUMINIUM ALLOYS
67-11 M10-80302
CONNECTION BETWEEN TEMPERATURE AND TIME DURING THE AGING OF ALUMINUM-MAGNESIUM-SILICON ALLOYS
67-12 M10-82902
THE EFFECTS OF ADDITIONS OF CHEMICALLY PURE ELEMENTS ON PRECIPITATION OF AGE-HARDENABLE AL-ZN-MG ALLOYS
67-12 M10-83108
EXAMINATION OF THE INFLUENCE EXERTED BY THE CONCENTRATION OF VACANCIES ON THE KINETICS OF AGE-HARDENING ALZNMG ALLOY
67-12 M10-83350
THE TEMPERATURE DEPENDENCE OF THE MAXIMUM ELECTRICAL RESISTANCE DURING AGING OF ALUMINUM ALLOYS
67-12 M10-83408
STRUCTURAL CHANGES IN AL-MG AND AL-MG-ZN ALLOYS DURING AGEING AND THEIR EFFECT ON THE MECHANICAL PROPERTIES OF THE ALLOYS
67-12 M13-82118

ALUMINUM BASE ALLOYS, IMPREGNATION
THE IMPREGNATION OF DIE CASTINGS
67-06 M06-70043

ALUMINUM BASE ALLOYS, IRRADIATION
RECOVERY OF ELECTRON-IRRADIATED ALUMINUM AND ALUMINUM ALLOYS. PT. 1. STAGE 1
67-12 M16-82529

ALUMINUM BASE ALLOYS, JOINING
THE BOLTING OF ALUMINIUM
67-01 M11-58298
THE BOLTING OF AL
67-04 M11-67066
THE BIG SQUEEZE
67-06 M11-71745
VACUUM --OR FLUXLESS-- BRAZING-GAS QUENCHING OF 6061 ALUMINUM ALLOY
67-08 M11-76067
AIRCRAFT AND AEROSPACE APPLICATIONS
67-08 M20-74831
STRUCTURE OF THE TRANSITION ZONE IN BIMETAL SHEETS OF KH18N10T STAINLESS STEEL - AMG6 ALUMINUM ALLOY
67-09 M12-77411

ALUMINUM BASE ALLOYS, MACHINABILITY
MACHINABILITY OF CAST ALLOY BASED ON THE AL-ZN-MG SYSTEM
67-04 M08-67119
SOME PROBLEMS ON THE TURNING OF ALUMINUM CAST ALLOY
67-04 M08-67120
MACHINABILITY OF ALUMINUM ALLOYS
67-04 M08-67121

ALUMINUM BASE ALLOYS, MACHINING
THE INFLUENCE OF ULTRASONIC VIBRATIONS ON THE SURFACE OF MACHINED WORKPIECES, WITH SPECIAL REFERENCE TO THE MACHINING OF ALUMINUM
67-01 M08-58221
THE PRODUCTION APPROACH TO EDM
67-01 M08-58525
ON THE TURN-MACHINABILITY OF ALUSIL
67-02 M08-59119
ELECTROEROSION OF SAP ALLOYS
67-02 M08-59735
ON THE TURNING MACHINABILITY OF ALUMINUM-MAGNESIUM CAST ALLOYS
67-02 M08-59991
CUTTING FORCE CHARACTERISTICS AT HIGH CUTTING RATES
67-02 M08-60222
POSSIBLE APPLICATIONS FOR HIGHLY WEAR-RESISTANT CUTTING MATERIALS
67-02 M17-59617
INNOVATIONS IN N/C MACHINING PRODUCE BETTER PARTS AT LESS COST
67-03 M08-65363
MACHINABILITY DATA FOR ALUMINUM
67-04 M08-66303
MACHINING OF ALUMINIUM
67-05 M08-68500
DIAMOND TOOLS ARE TRADITIONAL FOR MACHINING ALUMINIUM ALLOY ENGINE PISTONS
67-05 M08-68803
ON THE MECHANICAL POLISHING OF AL AND AL ALLOYS. PT. 2. ON THE SURFACE GRINDING OPERATION OF AL
67-05 M08-68890
THREAD ROLLING--FEEDS, REVS AND BLANK DESIGN
67-05 M08-69022
MACHINING LIGHTWEIGHT DIE CASTINGS ON A DIAL MACHINE
67-06 M08-69956
DRILL HOLE QUALITY IN DRILLING WITH TWIST DRILLS
67-06 M08-70044

PRODUCTION EDM COMES OF AGE 67-06 M08-71450
MACHINING TOOLS FOR HIGHLY HEAT RESISTANT MATERIALS IN AIRCRAFT POWER PLANT CONSTRUCTION 67-08 M08-74756
MACHINING 67-08 M08-74845
TEMPERATURE KEY TO MACHINING 67-08 M08-75530
FLOW STRESS CHARACTERISTICS AND THE MACHINING PROCESS 67-09 M08-77557
MACHINING ALCOA ALUMINUM 67-09 M08-78186
ON THE TURN-MACHINABILITY OF LO-EX, AN ALUMINUM ALLOY 67-09 M08-78249
QUANTITATIVE EVALUATION OF MACHINABILITY OF SOME COMMERCIAL ALUMINIUM ALLOYS 67-10 M08-78612
THE APPLICATION OF ELECTROEROSION METHODS IN THE PRODUCTION OF STAMPING DIES 67-10 M08-79502
N. C. AND CONVENTIONAL MACHINING OF AUTOMATIC TRANSMISSION COMPONENTS 67-10 M08-79704
THERMAL COEFFICIENTS AS A MACHINABILITY INDEX 67-11 M08-80539
IMPACT BURNISHING--TOOL DESIGN AND APPLICATIONS 67-11 M08-81695
SOME CONSIDERATIONS ON THE TURNING OF ALUMINUM-MANGANESE CAST ALLOYS 67-12 M08-81904
DIAMOND HONING OF ANODIZED ALUMINUM ALLOYS 67-12 M08-81997
TWO VARIANTS OF DIE COUNTERSINKING OF HOLES 67-12 M08-82069
THERMAL COEFFICIENTS. A PROPOSED MACHINABILITY INDEX 67-12 M08-82949
A STUDY ON TAPPING WROUGHT ALUMINUM. PT. 1 67-12 M08-83109

ALUMINUM BASE ALLOYS, MACROSTRUCTURE
STUDY ON MACROSTRUCTURE OF AL ALLOY 67-05 M13-68884

ALUMINUM BASE ALLOYS, MAGNETIC PROPERTIES
MAGNETIC PROPERTIES OF MNAL SYSTEM ALLOYS 67-01 M15-58670
IMPROVEMENT IN MAGNETIC PROPERTIES OF MNAL-B PERMANENT MAGNETS BY SWAGING WORKING 67-02 M15-59741
NUCLEAR MAGNETIC RESONANCE IN DILUTE ALLOYS OF MN, FE AND CU IN ALUMINUM 67-04 M16-68136
INDUCED UNIAXIAL MAGNETIC ANISOTROPY OF FE-AL ALLOYS AT LOW CONCENTRATIONS 67-11 M15-80625
EFFECTS OF STRONG MAGNETIC FIELD ON THE SOLIDIFICATION OF ALUMINUM ALLOYS 67-12 M15-81901
MAGNETIC ANALYSIS OF DILUTE BINARY ALLOYS OF COPPER, ZINC, AND MAGNESIUM IN ALUMINUM 67-12 M15-82966

ALUMINUM BASE ALLOYS, MECHANICAL PROPERTIES
FREE-MACHINING ALUMINUM ALLOYS 67-01 M08-58382
IMPROVEMENT OF THE PROPERTIES OF EXTRUDED CONDUCTOR ALUMINUM 67-01 M14-58381
EFFECT OF HEAT TREATMENT ON THE HEAT RESISTANCE OF CASTING ALUMINUM ALLOYS OF THE AL-CU-MG-NI TYPE 67-01 M17-57142
INTERNAL STRESSES IN TENSILE SPECIMENS OF ALUMINUM ALLOYS AND IRON AFTER PLASTIC DEFORMATION 67-01 M17-57292
TENSILE TESTING OF ALLOYS IN THE MELTING TEMPERATURE RANGE 67-01 M17-57465
MECHANICAL PROPERTIES OF RAPIDLY STRETCHED ALUMINUM AND ALUMINUM-MAGNESIUM ALLOYS 67-01 M17-57519
ON THE CRITICAL RESOLVED SHEAR STRESS OF SOLID SOLUTIONS CONTAINING COHERENT PRECIPITATES 67-01 M17-57573
SUPERPLASTICITY 67-01 M17-57592
STUDY ON ALUMINUM ALLOYS USED FOR DIECASTING 67-01 M17-57617
FATIGUE BEHAVIOR OF ALUMINUM AND TITANIUM SHEET MATERIALS DOWN TO MINUS 423 F 67-01 M17-57620
CRYOGENIC TENSILE PROPERTIES OF SELECTED AEROSPACE MATERIALS 67-01 M17-57621
METALLURGICAL EVALUATION OF A NEW ALUMINUM CASTING ALLOY DEVELOPED FOR SPACE VEHICLE USE AT CRYOGENIC TEMPERATURES 67-01 M17-57623
SHEAR STRENGTH OF SEVERAL ALLOYS AT LIQUID-HYDROGEN TEMPERATURES 67-01 M17-57625
CHARPY IMPACT TESTING AT 20 K 67-01 M17-57626
MECHANICAL PROPERTIES OF SEVERAL 2000 AND 6000 SERIES ALUMINUM ALLOYS 67-01 M17-57627
EVALUATION OF FRACTURE CHARACTERISTICS OF ALUMINUM ALLOYS AT CRYOGENIC TEMPERATURES 67-01 M17-57628
EVALUATION OF THE EFFECTS OF SPECIMEN CONFIGURATION AND TESTING VARIABLES ON CRACK PROPAGATION PROPERTIES 67-01 M17-57629
THE EFFECT OF DEFORMATION ON PRECIPITATION OF THETA PRIME AND THETA IN AL-4 PER CENT CU 67-01 M17-57937
EFFECT OF PRESSURE ON THE PROPERTIES OF CAST D16 ALUMINUM ALLOY 67-01 M17-58086
SECONDARY ALUMINUM ALLOYS FOR THE MANUFACTURE OF DEFORMED SEMIFINISHED PRODUCTS 67-01 M17-58087
HARDNESS DETERMINATION BY MEASURING THE DEPTH OF PENETRATION 67-01 M17-58123
INVESTIGATION OF THE POSSIBILITIES OF USING WROUGHT ALUMINUM ALLOYS, ESPECIALLY OF THE TYPE ALZNMGCU, FOR SPRINGS SUBJECTED TO BENDING AND TORSIONAL STRESSES. PT. 2 67-01 M17-58224
ALUMINUM AND ALUMINUM ALLOYS IN SHEET, PLATE AND TUBE FORM 67-01 M17-58306
THE EFFECT OF COMPOSITION ON THE FRACTURE PROPERTIES OF 7178-T6 ALUMINUM ALLOY SHEET 67-01 M17-58607
ON THE TURNING AND THE DRILLING OF LOW-PRESSURE DIE CASTINGS 67-02 M08-61028
DUCTILITY OF SAP --SINTERED ALUMINUM POWDER-- AND DURALUMINUM 67-02 M09-61731
MINIMIZING RESIDUAL INTERNAL STRESSES IN METAL PARTS BY VIBRATIONAL-THERMAL TREATMENT 67-02 M10-60844
LOW-FREQUENCY DISLOCATION INTERNAL FRICTION WITH THE EFFECT OF ANOMALOUS AMPLITUDE DEPENDENCE IN AN AL 0.5 PER CENT CU ALLOY 67-02 M15-59579
EFFECT OF INFREQUENT COMPRESSION CYCLES ON THE FATIGUE LIMIT OF STRUCTURAL ELEMENTS 67-02 M17-58833
FATIGUE BEHAVIOR OF ALUMINUM IN VACUUM 67-02 M17-58947
DISLOCATION DAMPING IN ALUMINIUM-COPPER ALLOYS.. A QUANTITATIVE ANALYSIS 67-02 M17-58964
THE TENSILE DEFORMATION BEHAVIOR OF AN ALUMINIUM-MAGNESIUM ALLOY 67-02 M17-58965
DRAW WIRE AND ROD OF ALUMINUM AND ITS ALLOYS FOR RIVET MANUFACTURE. SHAPE AND DIMENSIONS 67-02 M17-58993
CENTRIFUGAL MACHINE SPEEDS CREEP TESTING 67-02 M17-59459
THE ROLE OF THE CLADDING LAYER IN THE FATIGUE PROCESS OF DURALUMIN 67-02 M17-59656
EXPERIMENTAL RESULTS ON ACCUMULATION DAMAGE IN REPEATED LOADING OF ALUMINIUM ALLOY BARS 67-02 M17-59709
IDENTIFICATION OF THE MECHANISM OF METAL FRACTURES BY ELECTRON MICROFRACTOGRAPHY 67-02 M17-59715
INFLUENCE OF COPPER ON AL-SI-CU SYSTEM DIE CASTING ALLOYS 67-02 M17-59728
THE PROPERTIES OF ALUMINUM DIE CASTING ALLOYS AT ELEVATED TEMPERATURES 67-02 M17-59733
CHARACTERISTICS OF AGING OF AL-ZN-MG ALLOYS 67-02 M17-59764
INFLUENCE OF AGING ON DELAYED FRACTURE OF WELDED JOINTS OF AL-ZN-MG ALLOYS 67-02 M17-59765
INFLUENCE OF SMALL ADDITIONS OF CE, FE, NI AND CO ON MECHANICAL PROPERTIES AND ELECTRICAL CONDUCTIVITY OF ALUMINUM 67-02 M17-59770
EFFECT OF HEAT TREATMENT ON THE MECHANICAL PROPERTIES OF TYPE AT2 ALLOYS 67-02 M17-59833
INFLUENCE OF THERMAL CYCLING ON THE IRREVERSIBLE DIMENSIONAL CHANGES IN ALUMINIUM ALLOY VAD23 SHEET 67-02 M17-59885
ELASTIC-PLASTIC PROPERTIES OF A SERIES OF METALS DURING EXPLOSIVE LOADING 67-02 M17-59937
RESIDUAL STRESSES IN CAST BODIES 67-02 M17-60212
COMPRESSIVE DEFORMATION AND STRUCTURE IN SINTERED ALUMINUM PRODUCTS --S. A. P.-- 67-02 M17-60261
MEDIUM AND HIGH STRENGTH ALUMINUM ALLOYS AND THEIR BEHAVIOR AT LOW TEMPERATURE 67-02 M17-60609
THE EFFECT OF VACUUM OUTGASSING TIME ON THE FATIGUE BEHAVIOR OF TWO STRUCTURAL ALUMINUM ALLOYS 67-02 M17-60625
THE CYCLIC STRAIN BEHAVIOR OF CRYSTALS OF ALUMINUM-4 WT PER CENT COPPER. PT. 1. THE BAUSCHINGER EFFECT 67-02 M17-60637
THE CYCLIC STRAIN BEHAVIOR OF CRYSTALS OF ALUMINUM-4 WT PER CENT COPPER. PT. 2. LOW CYCLE FATIGUE 67-02 M17-60638
THE EFFECTS OF SHOT-PEENING ON THE FATIGUE STRENGTHS OF 7075 AND 7076 ALUMINUM ALLOYS

67-02 M17-60661
USE OF ULTRASOUND IN TENSILE TESTING OF METALS
67-02 M17-60666
FATIGUE CRACK PROPAGATION IN METALS
67-02 M17-60700
ON THE DUCTILITY CRITERION IN PRESSURE DEFORMATION OF METALS 67-02 M17-60735
THE EFFECT OF THE INTERPHASE INTERACTION ON THE STRENGTH OF SOME ALUMINUM ALLOY MIXTURES
67-02 M17-60780
MECHANICAL PROPERTIES OF ALUMINUM ALLOYS WITH CORUNDUM 67-02 M17-60783
STRAINS NEAR CRACKS IN ALUMINIUM PLATES
67-02 M17-60802
VIBRATION TREATMENT AND DIMENSIONAL STABILIZATION OF CASTINGS 67-02 M17-61017
ON THE MACHINABILITY OF WROUGHT ALUMINUM AND ITS ALLOYS 67-02 M17-61026
SOME FRACTURE CONSIDERATIONS IN THE DESIGN AND ANALYSIS OF SPACECRAFT PRESSURE VESSELS
67-02 M17-61138
INFLUENCE OF SUBSTRUCTURE ON YIELD STRENGTH OF D16 ALLOY 67-02 M17-61557
ROTATING BENDING FATIGUE BEHAVIOR OF AV22 TN AL ALLOY ANODIZED SPECIMEN 67-02 M17-62290
SIZE FACTOR IN CORROSION FATIGUE OF ALUMINUM ALLOY D1 67-02 M18-60969
MECHANICAL AND CORROSION PROPERTIES OF SHEETS OF VD3 ALLOY 67-02 M18-61287
THE USE OF LIGHT METAL ALLOYS IN ENGINES OF VEHICLES 67-02 M20-60216
ALUMINIUM-TIN ALLOY AS A BEARING MATERIAL FOR MACHINE TOOL APPLICATION 67-02 M20-61565
LOW-ENDURANCE FATIGUE OF AN ALUMINIUM ALLOY AND A STAINLESS STEEL IN PLANE BENDING AT AMBIENT AND ELEVATED TEMPERATURES 67-03 M17-65172
CREEP BEHAVIOUR OF NIMONIC AND R. R. 59 ALLOYS
67-03 M17-65173
EFFECT OF SIDE GROOVING ON MEASUREMENTS OF PLANE-STRAIN FRACTURE TOUGHNESS 67-03 M17-65314
MULTIPLE SPECIMEN FATIGUE TESTING
67-03 M17-65407
THE TRUE DESIGN STRENGTH OF MATERIALS AND JOINTS
67-03 M17-65670
INFLUENCE OF GRAIN SIZE ON PROPERTIES OF AK4-1 ALLOY SHEETS 67-03 M17-65787
EFFECT OF THE CONDITIONS OF MELTING AND ANNEALING ON THE TRANSITION OF METALLIC COMPOUNDS FROM BRITTLE STATE INTO DUCTILE 67-03 M17-65789
EXPERIMENTAL AND THEORETICAL STUDIES OF EXPLOSIVE-INDUCED LARGE DYNAMIC AND PERMANENT DEFORMATIONS OF SIMPLE STRUCTURES 67-04 M08-66677
STABILIZATION OF SILUMIN BY THERMAL CYCLING
67-04 M10-68092
RESIDUAL STRESSES IN ALUMINUM ALLOY WELDED JOINTS
67-04 M11-66838
INVESTIGATION OF THE STRUCTURE OF TYPE V 96 ALLOY WELDED JOINTS 67-04 M13-67151
RELATIONSHIP BETWEEN STRENGTH AND STRUCTURE IN DEFORMATION AT ELEVATED TEMPERATURES
67-04 M17-66042
CUMULATIVE DAMAGE AND EFFECT OF MEAN STRAIN IN LOW-CYCLE FATIGUE OF A 2024-T351 ALUMINUM ALLOY
67-04 M17-66239
INVESTIGATIONS OF THE RESISTANCE TO FAILURE OF THE NICKEL BEARING ALUMINIUM ALLOYS
67-04 M17-66605
MECHANICAL PROPERTIES OF VAD23 ALLOYS
67-04 M17-66832
MECHANICAL PROPERTIES OF SEMIFINISHED PRODUCTS AND WELDED JOINTS FROM HIGH-STRENGTH V92TS ALUMINUM ALLOY 67-04 M17-66834
EFFECT OF DISSOLVED HYDROGEN ON THE FATIGUE BEHAVIOR OF AN AL-AL203 SAP-TYPE ALLOY
67-04 M17-66918
SUPERPLASTICITY IN THE AL-CU EUTECTIC ALLOY
67-04 M17-66927
CHARACTERISTICS OF THE DISTRIBUTION OF SURFACE RESIDUAL STRESSES IN WELDED PLATES MADE OF AVIAL ALLOY 67-04 M17-67003
WELDABILITY OF THIN PIECES OF AMG6 ALLOY
67-04 M17-67016
A METHOD OF DETERMINING PLASTIC ANISOTROPY OF SHEET METAL 67-04 M17-67091
STUDIES ON WROUGHT EUTECTIC-TYPE ALUMINUM-SILICON ALLOYS 67-04 M17-67118
PRACTICAL APPLICATION OF THE PROBABILITY THEORY TO FATIGUE TESTS OF ALUMINUM 67-04 M17-67126
NOTCH SENSITIVITY AND CRACK SUSCEPTIBILITY OF ATSM, ATSMU AND AM ALLOYS AND OF THEIR WELDED JOINTS 67-04 M17-67146
PROPERTIES OF VAD-23 ALLOYS 67-04 M17-67149
DELAYED FRACTURE OF WELDED JOINTS FROM ALLOYS OF THE AL-ZN-MG SYSTEM 67-04 M17-67152
STUDY OF THE EFFECT OF PLASTIC DEFORMATION DURING INTERMITTENT AGING ON THE STRUCTURE AND PROPERTIES OF AN ALUMINUM-MAGNESIUM ALLOY
67-04 M17-67385
RECOVERY OF WORK-HARDENING OF SAP ALLOYS
67-04 M17-67457
MECHANICAL PROPERTIES AND STRUCTURE OF COLD-EXTRUDED, ALUMINUM-ALLOY TUBE AND ROD
67-04 M17-67533
EFFECT OF HEAT TREATMENT ON PROPERTIES OF SHEETS MADE OF ALLOY VD1 67-04 M17-67534
EFFECT OF PLASTIC DEFORMATION AND AGING ON MECHANICAL PROPERTIES OF AL-MG ALLOYS
67-04 M17-67923
COMPOSITION AND PROPERTIES OF ALLOYED ALUMINUM WIRE FOR ELECTRIC CONDUCTORS 67-04 M17-68029
FATIGUE STRENGTH OF ALUMINUM ALLOYS
67-04 M17-68036
STUDY OF WEAR OF CASTING AL ALLOYS
67-04 M17-68064
THE EFFECT OF WIDELY SPACED COMPRESSION CYCLES ON THE STRENGTH OF A STRUCTURAL ELEMENT
67-04 M17-68079
MECHANICAL PROPERTIES OF METALS
67-05 M01-68474
EFFECT OF WELDING CONDITIONS ON THE STRENGTH OF WELDED AL ALLOY MEMBERS 67-05 M11-68861
THE HIGH-TEMPERATURE STRENGTH AND STRUCTURE OF THE AL-MGZN2 QUASIBINARY ALLOYS 67-05 M14-68882
EVALUATION OF THE WEAR RESISTANCE OF METALS
67-05 M17-68408
STRESS-STRAIN ANALYSIS OF METAL CRYSTALS BY THE DIVERGENT X-RAY BEAM METHOD 67-05 M17-68524
EXPERIMENTAL TECHNIQUE FOR IMPULSE LOADING OF STRUCTURES 67-05 M17-68651
DISCUSSION ON METHODS OF ESTIMATING THE TENDENCY OF METALS AND ALLOYS TOWARD BRITTLE FAILURE. METHOD OF ESTIMATING THE CRITICAL LENGTH OF A CRACK IN A SINGLE LOADING 67-05 M17-68740
ON THE DAMPING CAPACITY OF MG AND ITS ALLOYS
67-05 M17-68864
ON THE BULGE TEST OF THE AL FOIL
67-05 M17-68868
THE HIGH-TEMPERATURE STRENGTH AND STRUCTURE OF THE AL-ZN BINARY ALLOYS 67-05 M17-68881
ON THE STUDY OF AL-TH ALLOYS. PT. 1. THE EFFECT OF TH ON THE PROPERTIES OF AL ALLOYS
67-05 M17-68883
STUDY ON THE WEAR OF CASTING AL ALLOYS. PT. 1. ON THE WEAR CHARACTERISTICS 67-05 M17-68888
STUDY ON THE WEAR OF CASTING AL ALLOYS. PT. 2. ON THE FRICTIONAL CHARACTERISTICS
67-05 M17-68889
THE STRENGTH AND COLD RESISTANCE OF AMG5V ALLOY AND ITS WELDED JOINTS AT LOW TEMPERATURES
67-05 M17-69041
HEAT OF ACTIVATION OF SECONDARY CREEP IN AL-MG ALLOYS 67-05 M17-69135
THE POSSIBILITY OF BRITTLE FRACTURE OF ALUMINUM ALLOY WELDED JOINTS 67-05 M17-69408
ON THE EVALUATION OF MECHANICAL PROPERTIES AND THE TYPE OF FRACTURE OF ANISOTROPIC METALS
67-05 M17-69633
LOW-TEMPERATURE AGING OF DISEQUILIBRIUM D-1 ALUMINUM ALLOY 67-05 M17-69655
CRYOGENICS--APPLICATION OF AL ALLOYS, THEIR MECHANICAL PROPERTIES AND METHODS OF TESTING THEM
67-05 M17-69700
FATIGUE TESTING OF AN AL-MG-MN ALLOY PRESSURE VESSEL 67-05 M17-69714
NUCLEATION OF FRACTURE 67-05 M17-69727
TESTING MATERIAL IN BIAXIAL TENSION
67-05 M17-69739
ALUMINUM CASTINGS AS STRONG AS FORGINGS
67-06 M01-70676
ALUMINUM 8280 67-06 M01-71154
BA. 704 --ALUMINUM EXTRUSION ALLOY--
67-06 M01-71454
FABRICATING ALUMINUM ALLOYS 67-06 M01-71492
THE ASSOCIATION BETWEEN CRACK-OPENING DISPLACEMENT AND FRACTURE TOUGHNESS 67-06 M17-69929
ON THE FRACTURE OF SILICON PARTICLES IN ALUMINUM-SILICON ALLOYS 67-06 M17-69948
NEW WELDABLE HIGH STRENGTH ALUMINUM ALLOY DEVELOPED

FOR CRYOGENIC SERVICE 67-06 M17-70002
LOW-CYCLE FATIGUE TESTS UNDER REVERSED TENSION/COMPRESSION STRESSES WITH CONSTANT TRUE-STRAIN AMPLITUDE 67-06 M17-70033
EFFECTS OF RARE ELEMENTS ON THE PROPERTIES OF AL10V ALLOY 67-06 M17-70096
EFFECT OF COMPOSITION AND COOLING RATE ON THE MICROHARDNESS OF A CAST AL-CU ALLOY SOLID SOLUTION 67-06 M17-70175
STATIC INVESTIGATIONS OF RA3 --ALMG5-- ALLOY WELD JOINTS 67-06 M17-70211
EFFECTS OF THE HEATING CONDITIONS BEFORE QUENCHING AND THE DEGREE OF COLD DEFORMATION AFTER QUENCHING ON THE MECHANICAL PROPERTIES AND STRUCTURE OF EXTRUDED VAD23 ALLOY SECTIONS 67-06 M17-70352
EFFECTS OF COARSE-AND FINE-GRAINED STRUCTURES ON THE HIGH-TEMPERATURE STRENGTH OF THE D20 WROUGHT ALUMINUM ALLOY 67-06 M17-70381
THE EFFECTS OF MANGANESE AND ZIRCONIUM ON THE HOT SHORTNESS OF AL-MG-ZN SYSTEM ALLOYS 67-06 M17-70382
SOME OBSERVATIONS ON AN INTERNAL FRICTION PEAK IN AN ALUMINIUM-MAGNESIUM-SILICON ALLOY 67-06 M17-70431
TEMPERATURE DEPENDENCE OF THE FATIGUE TRANSITION PRESSURE FOR ALUMINUM 67-06 M17-70443
AGE SOFTENING 67-06 M17-70446
METHOD OF TESTING ALLOYS IN TENSION IN THE SOLIDUS-LIQUIDUS RANGE 67-06 M17-70753
RAPID METHOD OF ESTIMATING ROTATING BENDING FATIGUE LIMITS BY CAPACITANCE THERMOMETER FOR ROTATOR 67-06 M17-70818
ON SERRATED YIELDING AND NEGATIVE STRAIN-RATE SENSITIVITY 67-06 M17-71087
EXPERIMENTAL BUCKLING OF INTERNAL INTEGRAL RING-STIFFENED CYLINDERS 67-06 M17-71152
STRESS ANALYSIS BY ULTRASONIC METHODS 67-06 M17-71175
INVESTIGATION OF CONDITIONS OF STRESS IN STRESS CORROSION TESTING SPECIMENS WITH CONSTANT DEFORMATION 67-06 M17-71177
THE EFFECT OF THE SHEET THICKNESS ON THE FRACTURE TOUGHNESS OF CRACKED SHEET 67-06 M17-71181
THE INFLUENCE OF THE LOADING RATE ON THE RESIDUAL STRENGTH OF ALUMINIUM ALLOY SHEET SPECIMENS 67-06 M17-71182
THE EFFECT OF FINITE SPECIMEN WIDTH ON THE RESIDUAL STRENGTH OF LIGHT ALLOY SHEET 67-06 M17-71499
SHORT-TIME ELEVATED TEMPERATURE MECHANICAL PROPERTIES OF 2219-T87 AND 2219-T6 ALUMINUM ALLOY 67-06 M17-71627
EFFECT OF VARIATION IN POISSONS RATIO ON PLASTIC TENSILE INSTABILITY 67-06 M17-71631
STRESS INTENSITY FACTORS FOR HOLLOW CIRCUMFERENTIALLY NOTCHED ROUND BARS 67-06 M17-71633
FATIGUE-CRACK-PROPAGATION RATES UNDER RANDOM EXCITATION 67-06 M17-71634
BRITTLENESS AND MICROSTRUCTURE OF SOME AL-MG-ZN-ALLOYS 67-06 M17-71659
THE INCREASE OF CRITICAL SHEAR STRESS DUE TO THE MIGRATION OF DISLOCATIONS THROUGH PARTICLES WITH SYMMETRICAL STRESS FIELD 67-06 M17-71721
APPLICATION OF HIGH-PURITY AL IN THE DEVELOPMENT OF HIGH-STRENGTH AL-ZN-MG-CU ALLOYS 67-06 M17-71979
PROBLEMS, PROPERTIES AND SELECTION OF STRUCTURAL METALS FOR USE IN CRYOGENIC ENVIRONMENT 67-06 M17-72092
A MATHEMATICAL MODEL OF THE RELATIONSHIP OF THE RELATIVE ELONGATION TO THE STRUCTURAL CHARACTERISTICS OF AN ALLOY IN SOLID-LIQUID STATE 67-06 M17-72120
INFLUENCE OF TEMPERATURE AND COOLING RATE ON PROPERTIES OF AL-ZN-MG ALLOYS 67-06 M17-72368
MEDIUM-STRENGTH, HIGH-EXTRUSION AL-ZN-MG ALLOYS 67-06 M20-71711
HIGH-STRENGTH LIGHT ALLOYS 67-07 M01-74260
BORON-FILAMENT REINFORCED PLASTIC COMPOSITES FOR AIRCRAFT STRUCTURES 67-07 M09-73721
ELASTOPLASTIC PROPERTIES OF A NUMBER OF METALS EXPOSED TO EXPLOSIVE SHOCK LOADING 67-07 M17-72592
OPERATING GEARS IN A SIMULATED SPACE VACUUM--THE VACUUM FACILITY AND SEVERAL TECHNIQUES 67-07 M17-72758
THE RELATION OF HUMIDITY TO THE FATIGUE ENDURANCE OF AN ALUMINIUM ALLOY 67-07 M17-72815
EFFECT OF CONSTRUCTION FACTORS ON THE LONGEVITY DISTRIBUTION OF LIGHT ALLOYS 67-07 M17-72867
CRACK PROPAGATION IN FATIGUE--SOME EXPERIMENTS WITH DTD 5070A ALUMINIUM ALLOY SHEET 67-07 M17-73084
DETERMINING THE STRESS CONDITION IN MATERIALS BY MEANS OF ULTRASONICS 67-07 M17-73101
USING ULTRASOUND TO TEST METALS UNDER TENSION 67-07 M17-73102
ROLE OF THEORETICAL STRESS-CONCENTRATION FACTOR IN EVALUATING NOTCH TOUGHNESS 67-07 M17-73133
SURFACE BUBBLE FORMATION DURING FATIGUE OF AN ALUMINUM ALLOY 67-07 M17-73134
THE PLASTIC DEFORMATION OF ALNIFE ALLOYS ON THERMAL CYCLING 67-07 M17-73885
DYNAMIC INDENTATION OF COPPER AND AN ALUMINIUM ALLOY WITH A CONICAL PROJECTILE AT ELEVATED TEMPERATURES 67-07 M17-74089
PRELIMINARY INVESTIGATIONS ON A NEW WELDABLE ALLOY --ARGONAL 50-- OF THE AL-ZN-MG SYSTEM 67-08 M01-75379
ALUMINUM D132 PERMANENT MOLD CASTING ALLOY 67-08 M01-75688
DECREASE OF RESIDUAL INTERNAL STRESSES IN METAL MACHINE PARTS BY VIBRATION-HEAT TREATMENT 67-08 M10-76102
DETERMINATION OF PLANE STRAIN FRACTURE TOUGHNESS 67-08 M17-74683
SURFACE STRESS DISTRIBUTION CHARACTERISTICS OF WELDED A VIAL ALLOY SLABS 67-08 M17-74762
WELDABILITY OF THIN AMG6 ALLOY 67-08 M17-74775
PROPERTIES OF COMMERCIAL WROUGHT ALLOYS 67-08 M17-74810
SIGNIFICANCE OF MECHANICAL PROPERTIES IN DESIGN AND APPLICATION 67-08 M17-74817
FREQUENCY DISLOCATION INTERNAL FRICTION PEAKS WITH ANOMALOUS AMPLITUDE EFFECT IN AL-3.1 PER CENT MG ALLOY 67-08 M17-75076
CONTRIBUTION TO THE INFLUENCE OF HYDROGEN ON THE CRACK PROPAGATION RATE IN WELDED SEAMS, STRESSED BY VIBRATION 67-08 M17-75319
ACCELERATED FATIGUE TESTING OF LIGHT ALLOYS 67-08 M17-75352
FAILURE OF A FAN ROTOR 67-08 M17-75534
MECHANICAL PROPERTIES OF METALS 67-08 M17-75600
THE STRAIN-RATE DEPENDENCE OF THE FLOW STRESS IN SOME ALUMINUM ALLOYS 67-08 M17-75969
SINGULARITIES OF THE AGING OF ALLOYS OF THE AL-ZN-MG SYSTEM 67-08 M17-76122
INFLUENCE OF AGING ON RETARDED DESTRUCTION OF WELDED JOINTS OF THE AL-ZN-MG SYSTEM 67-08 M17-76123
INFLUENCE OF SMALL AMOUNTS OF CERIUM, IRON, NICKEL, AND COBALT ON THE MECHANICAL PROPERTIES AND ELECTRICAL CONDUCTIVITY OF ALUMINUM 67-08 M17-76128
DESIGN FACTORS FOR STRUCTURAL ENGINEERING 67-08 M20-74822
THE EFFECTS OF ADDING SMALL AMOUNTS OF HIGH-MELTING ELEMENTS TO AN ALUMINUM ALLOY CONTAINING 5 PER CENT ZN AND 2 PER CENT MG ON THE STRUCTURE AND PROPERTIES OF THE ALLOY SHEET 67-09 M01-77062
NO. 9--HIDUMINIUM 48. THE WELDABLE HIGH-STRENGTH LIGHT ALLOY 67-09 M01-77300
THE PRESS FORMABILITY OF ALUMINIUM AND ITS ALLOYS 67-09 M08-76680
THE PROPERTIES AND STRUCTURE OF ALUMINUM-SILICON-ZINC ALLOYS 67-09 M17-76883
RESEARCH INTO ALUMINUM-ZINC-LITHIUM SYSTEM ALLOYS 67-09 M17-77041
STATISTICAL INTERPRETATION OF THE ENDURANCE CHARACTERISTICS OF SPOT WELDED JOINTS IN ALUMINIUM ALLOY AMG6 67-09 M17-77234
NOTCH TOUGHNESS OF SOME ALUMINUM ALLOY CASTINGS AT CRYOGENIC TEMPERATURES 67-09 M17-77304
EFFECT OF AGING ON THE TENSILE PROPERTIES OF ALLOY 7039 GTA WELDS AT LOW TEMPERATURES 67-09 M17-77489
ROTATING STRENGTH OF HIGH-SPEED ROTOR 67-09 M17-77574
THE EFFECT OF EXPLOSIVE FORMING ON FATIGUE PROPERTIES 67-09 M17-77910
THE PROPAGATION OF TRIPLE-POINT CRACKS IN A SINGLE PHASE, ALUMINIUM-20 PER CENT ZINC ALLOY 67-09 M17-77922

SMOOTH SPECIMEN SIMULATION OF FATIGUE BEHAVIOR OF NOTCHES 67-09 M17-78047
DELAY TIMES, OSCILLATIONS, AND REVERSE STRAINING IN ANNEALED ALUMINUM 67-09 M17-78103
TESTING SHEET MATERIALS WITH VARIOUS RESERVES OF ELASTIC ENERGY FOR BIAXIAL TENSION 67-09 M17-78159
A STUDY ON THE FATIGUE CRACK PROPAGATION OF A CAST SILUMIN CONTAINING COPPER 67-09 M17-78228
ELECTRON MICROSCOPE OBSERVATION OF FRACTURE SURFACE IN AL-ZN POLYCRYSTALLINE ALLOYS 67-09 M17-78248
PLASTIC DEFORMATION IN DISPERSION PHASE HARDENED ALUMINUM ALLOYS --SAP ALLOYS-- 67-09 M17-78289
DESIGN CONSIDERATIONS IN MATERIAL SELECTION FOR ROCKET-MOTOR CASES 67-09 M20-78270
AN ALUMINUM-BASE ALLOY FOR CONDUCTORS 67-10 M01-78359
INFLUENCE OF AGE HARDENING PHENOMENA ON THE FLOW CURVE 67-10 M10-78709
SOME INVESTIGATIONS OF THE AGE HARDENING OF A WROUGHT ALMGSI TYPE ALLOY IN THE UNSTRETCHED AND STRETCHED CONDITION 67-10 M10-79086
RADIATION EFFECTS ON SHEAR STRENGTH OF SEVERAL ALLOYS AT LIQUID HYDROGEN ENVIRONMENT 67-10 M16-78492
THE QUENCHING AND SHOCK WAVE TREATMENT OF ALUMINUM ALLOYS 67-10 M17-78357
A STATISTICAL ANALYSIS OF ALUMINUM WELDS TESTED AT CRYOGENIC TEMPERATURES 67-10 M17-78477
A REVIEW OF CRYOGENIC FRACTURE TOUGHNESS BEHAVIOR 67-10 M17-78484
NOTCH TOUGHNESS OF SOME ALUMINUM ALLOY CASTINGS AT CRYOGENIC TEMPERATURES 67-10 M17-78485
A VERSATILE ALUMINUM ALLOY FOR CRYOGENIC APPLICATIONS 67-10 M17-78486
MEASUREMENT OF STRAIN HARDENING IN SHEET METALS 67-10 M17-78504
BRITTLE FRACTURE IN WELDED JOINTS IN ALUMINIUM ALLOYS 67-10 M17-78512
EFFECTS OF MISCH METAL ADDITIONS ON THE MACHINABILITY AND MECHANICAL PROPERTIES OF ALUMINIUM ALLOYS 67-10 M17-78606
CRACKING OF A STRONG ALUMINIUM ALLOY USED IN AIRCRAFT CONSTRUCTION 67-10 M17-78753
EVALUATING ALLOYS FOR FAILURE-SAFE STRUCTURES 67-10 M17-78763
THE MECHANICAL PROPERTIES OF ANTIFRICTION ALUMINUM ALLOYS RUDNITSKII N M 67-10 M17-78957
MECHANICAL PROPERTIES OF HYPOEUTECTIC SILUMIN OF SEMICONDUCTOR PURITY 67-10 M17-79040
DEFORMATION RESISTANCE OF AMG6 ALUMINUM ALLOY DURING PRESSING 67-10 M17-79043
AN ELECTRON-MICROSCOPIC STUDY OF ALUMINUM WEAR PARTICLES FORMED DURING SLIDING IN THE PRESENCE OF POLYGLYCOLS 67-10 M17-79110
BENDING WITHOUT BREAKING 67-10 M17-79184
THERMOELASTIC STRESS PULSES RESULTING FROM PULSED ELECTRON BEAMS 67-10 M17-79410
ULTRASONIC DETECTION OF CRACK EXTENSION IN THE W. O. L. TYPE FRACTURE TOUGHNESS SPECIMEN 67-10 M17-79748
REDUCTION OF AREA DURING TENSILE STRESSING OF MONOCRYSTALS OF AN 8 PER CENT ZN-AL ALLOY 67-10 M17-80019
THE DYNAMIC STABILITY OF TRANSFORMER WINDINGS MADE OF GRADE AE-1 ALUMINUM ALLOY 67-10 M20-78349
YIELD POINT PHENOMENA IN NONFERROUS METALS 67-11 M17-80343
THE EFFECTS OF BIAXIAL STRAIN ON MATERIAL PROPERTIES 67-11 M17-80521
PLASTIC-STRAIN DISTRIBUTION AT THE ROOT OF A SHARP NOTCH 67-11 M17-80652
PLASTIC YIELDING AND STRAIN DISTRIBUTION IN FILAMENT-REINFORCED METALS 67-11 M17-80679
FRACTURE CHARACTERISTICS OF ALUMINUM-ALLOY PLATE IN TENSION TESTS OF LARGE CENTER-SLOTTED PANELS 67-11 M17-80684
FRACTOGRAPHY AND MICROSTRUCTURE OF ALUMINUM ALLOY 7075-T651 AND T7351 67-11 M17-80690
MECHANICAL PROPERTIES OF METALS 67-11 M17-80764
MECHANICAL PROPERTIES OF PIPES OF THE D1 ALLOY 67-11 M17-80974
THE APPLICATION OF ELECTRON FRACTOGRAPHY TO FATIGUE STUDIES 67-11 M17-81127
THE RELATIONSHIP BETWEEN CHANGES IN FINE STRUCTURE AND THE MICROPLASTIC STRAIN RESISTANCE OF METALS AND ALLOYS 67-11 M17-81159
INTERNAL FRICTION AND MODULUS OF RIGIDITY IN HEAT TREATED AND MECHANICALLY PROCESSED ALUMINUM 67-11 M17-81161
EXTREMES IN ENVIRONMENTAL TESTING 67-11 M17-81239
MECHANICAL BEHAVIOR OF A FIBER REINFORCED METAL AND ITS EFFECT ON ENGINEERING APPLICATION 67-11 M17-81518
COMPOSITES AT LOW TEMPERATURES 67-11 M17-81519
AL CASTING ALLOYS FOR HIGH-TEMPERATURE 67-11 M17-81547
THE PROPERTIES OF PAR-1 ALLOY FOR THE CONSTRUCTION OF THE CORE OF NUCLEAR REACTOR EWA 10 MW 67-11 M20-81516
THE PROPERTIES OF SOME SUBSTITUTE BEARING ALLOYS 67-12 M01-82890
STRENGTH OF ALUMINUM BASE COMPOSITES 67-12 M09-83528
X-RAY LINE BROADENING AND RESIDUAL STRESS STUDIES OF COMPOSITE MATERIALS 67-12 M17-81820
INFLUENCE OF TEMPERATURE AND DEFORMATION RATE ON MECHANICAL PROPERTIES OF AMG6 ALUMINUM ALLOY 67-12 M17-81841
NEW ACCURATE PROCEDURE FOR SINGLE SHEAR TESTING OF METALS 67-12 M17-81852
USE OF CRACK-LINE-LOADED SPECIMENS FOR MEASURING PLANE-STRAIN FRACTURE TOUGHNESS 67-12 M17-81855
ANISOTROPY OF FATIGUE RESISTANCE OF METALS 67-12 M17-81888
INFLUENCE OF LOADING FREQUENCY OF ENDURANCE OF V95 ALUMINUM ALLOY 67-12 M17-81889
ON THE APPLICATION OF THE PROT METHOD TO FATIGUE TESTS OF LIGHT METAL ALLOYS 67-12 M17-81890
USE OF ACCELERATED TEST METHODS FOR DETERMINING THE FATIGUE LIMIT OF D16T ALUMINUM ALLOY 67-12 M17-81891
FRACTOGRAPHIC ANALYSIS OF SPECIMENS SUBJECTED TO CYCLIC STATIC TENSION 67-12 M17-81892
INFLUENCE OF STRUCTURAL FACTORS ON THE DURABILITY DISTRIBUTION OF LIGHT ALLOYS 67-12 M17-82175
TEMPERATURE-TIME DEPENDENCE OF THE STRENGTH OF METALS AND ALLOYS IN DISEQUILIBRIUM STATE. PT. 2. ALLOYS 67-12 M17-82340
THE CRACK PROPAGATION IN TWO ALUMINIUM ALLOYS, IN AN INDOOR AND AN OUTDOOR ENVIRONMENT, UNDER RANDOM AND PROGRAMMED LOAD SEQUENCES 67-12 M17-82473
THE STATIC STRENGTH OF ALUMINIUM ALLOY SHEET SPECIMENS CONTAINING BLUNT NOTCHES 67-12 M17-82474
EFFECT OF LOCAL STRENGTHENING ON FATIGUE PROPERTIES OF NOTCHED ALUMINIUM ALLOY THIN-SHEET STRUCTURES 67-12 M17-82539
EFFECT OF CONTROLLED HEAT TREATMENT ON PROPERTIES OF AL-ZN-MG-CU ALLOYS 67-12 M17-82711
FRACTURE CONSIDERATIONS IN DEFORMATION PROCESSING 67-12 M17-82771
WORK HARDENING OF SAP AL ALLOYS, PLASTICALLY DEFORMED AT ROOM TEMPERATURE 67-12 M17-82814
FATIGUE OF AN ALUMINUM ALLOY IN ULTRA-HIGH VACUUM AND AIR 67-12 M17-82857
SAP-TYPE ALLOYS SOLID SOLUTION STRENGTHENED WITH MAGNESIUM 67-12 M17-83048
MICROSCOPIC FATIGUE FRACTURE SURFACE FEATURES IN 2024-T3 ALUMINUM AND THE INFLUENCE OF CRACK PROPAGATION ANGLE UPON THEIR FORMATION 67-12 M17-83051
CRACKING OF A STRONG ALUMINIUM ALLOY USED IN AIRCRAFT CONSTRUCTION 67-12 M17-83122
NUMERICAL ANALYSIS OF CRACK PROPAGATION IN CYCLIC-LOADED STRUCTURES 67-12 M17-83239
A STUDY OF THE LAW OF CRACK PROPAGATION 67-12 M17-83242
THE USE OF DOUBLE CANTILEVER BEAM SPECIMEN FOR DETERMINING THE PLANE STRAIN FRACTURE TOUGHNESS OF METALS 67-12 M17-83248
ULTRASONIC STUDIES OF 1060 AND 6061-T6 ALUMINUM 67-12 M17-83270
STATISTICAL STUDY ON THE INFLUENCE OF ADDITION ELEMENTS ON WELD CRACKING IN AG 3 ALLOYS 67-12 M17-83341
INTERGRANULAR FAILURE OF PRECIPITATION-HARDENED ALUMINUM ALLOYS 67-12 M17-83527
INFLUENCE OF DEFORMATION RATES ON DUCTILITY OF SOME STEELS AND ALLOYS 67-12 M17-83529
LOW-TEMPERATURE MECHANICAL PROPERTIES OF SOME

ALUMINUM ALLOY WELDS 67-12 M17-83534
STUDY ON AL203 DISPERSION HARDENED ALUMINUM USED FOR NUCLEAR APPLICATIONS 67-12 M20-82809
TECHNIQUES FOR TESTING STRUCTURAL MATERIALS IN RELATION TO THEIR APPLICATION IN NUCLEAR REACTORS 67-12 M20-82813
ALUMINUM AND MAGNESIUM IN REACTOR METALLURGY 67-12 M20-83144

ALUMINUM BASE ALLOYS, MECHANICAL TESTS
A METHOD FOR INTERRUPTING A HIGH STRAIN RATE TENSION TEST BEFORE SPECIMEN FRACTURE 67-01 M17-58770

ALUMINUM BASE ALLOYS, MELTING
INTRODUCTION AND OPERATION OF A 15 TON GAS-FIRED FURNACE FOR MELTING ALUMINUM AND ALUMINUM ALLOYS 67-01 M03-57154
OPTIMIZATION OF AIB12 PRODUCTION BY A METALLOTHERMAL METHOD OUTSIDE THE FURNACE 67-02 M03-58881
METALLOTHERMAL PRODUCTION OF ALLOYS WITH A HIGH CONTENT OF ALUMINUM 67-02 M03-59550
CONSUMABLE ELECTRODE MELTING OF ALUMINUM ALLOYS IN VACUUM ARC FURNACE 67-02 M03-61622
COPPER AND ALUMINUM --NON-FERROUS AND LIGHT METALS AND ALLOYS--. PT. 2 67-04 M06-66243
HOW THE MELTING FURNACE LINING AFFECTS THE SILICON CONTENT OF ALUMINUM ALLOYS 67-04 M14-67935
ALUMINIUM MELTING IN BULK 67-06 M03-70707
FILTRATION OF LIGHT METAL MELTS 67-07 M03-73490
MELTING AND CASTING 67-11 M03-80476
INFLUENCE OF SODIUM ON THE GAS CONTENT OF ALUMINUM ALLOYS 67-12 M03-81882
THE EFFECT OF ALUMINIUM GRAIN SIZE OF INTERACTIONS BETWEEN ELEMENTS ADDED TO THE LIQUID METAL 67-12 M14-82117

ALUMINUM BASE ALLOYS, METAL FORMING
COOLED DIES FOR METAL PRESSING 67-08 M08-76245

ALUMINUM BASE ALLOYS, METAL WORKING
NEW FRONTIERS IN METAL FORMING--MAGNETICS 67-01 M07-57950
STRETCHING AND STRAIGHTENING ALUMINUM SECTIONS AFTER EXTRUSION 67-01 M07-58222
THE INFLUENCE OF THE HEAT TREATMENT OF INGOTS AND SLABS ON THE EARING OF ALUMINUM SHEET OF DIFFERENT PURITIES 67-01 M08-57287
REPORT ON THE DEEP DRAWING OF PARTIALLY HARDENED ALUMINUM AND ITS ALLOYS 67-01 M08-57457
SHAPING METAL MAGNETICALLY 67-01 M08-58522
TOOLING FOR COLD PRESSING ALUMINUM ALLOY TUBES 67-02 M07-61617
USE OF EXPLOSIVES IN SHEET METAL FORMING 67-02 M08-59131
CALCULATION OF SPRINGBACK IN SHEET METAL DURING FLANGING USING RUBBER TO APPLY THE PRESSURE 67-02 M08-59884
INCREASING THE DIAMETER OF COMPOSITE TUBING USED IN THE FIELD OF NUCLEAR ENERGY 67-02 M08-62037
HEADING TUBES WITH EXPLOSIVE CHARGES 67-02 M08-62200
PROBLEMS OF FORMING LARGE LIGHT ALLOY PARTS FOR A SUPERSONIC AIRPLANE 67-02 M20-61997
LOEWY CONSTANT-GAP ROLLING MILL AT THE WORKS OF ALUMINIUM CORPORATION 67-03 M07-65114
THIN-WALLED M-40 ALLOY PIPES 67-04 M07-66831
THE STRAIGHTENING OF WELDED STRUCTURAL PARTS OF THE ALZNMG1 AL ALLOY 67-04 M07-68001
CORRUGATING ALUMINUM SHEET STRUCTURAL ELEMENTS TO REDUCE WELDING STRAINS 67-04 M08-67017
MECHANICAL PROPERTIES OF TUBES OF D1 AL ALLOY 67-04 M17-66372
HEMISPHERE FORMING SMOOTHER VIA FLUID METHOD 67-05 M07-68802
ON THE WARM WORKING OF LIGHT METALS. PT. 1 67-05 M07-68863
GAS-DETONATION FORMING 67-05 M07-68982
EXPLOSIVE FORMING AT LTV VOUGHT AERONAUTICS DIVISION 67-05 M07-68983
EXPLOSIVE FORMING AT MARTIN-DENVER 67-05 M07-68986
N/C ROUTER ROUTS SHOP HEADACHES 67-05 M08-68769
THE EFFECT OF MATERIAL PROPERTIES ON DISHING AND DEEP DRAWING WITH CONSIDERATION OF DEEP DRAW TESTING 67-06 M07-70453
SPRINGBACK CONTROL--KEY TO ACCURACY IN EXPLOSIVE FORMING 67-06 M07-70568
EXPLOSIVE FORMING AT NORTH AMERICAN AVIATION 67-06 M07-71582
THE TECHNOLOGICAL TESTING OF DEEP DRAWING AND BULGING ABILITY 67-06 M08-71272
THE DEEP DRAW TESTING OF SHEET METAL 67-06 M08-71564
PUSHBUTTON STRETCH FORMER USES ARCED, ROTATING JAWS 67-07 M07-72930
POWER CONDITIONS IN PRESSING OF SEMIFABRICATES OF AMG6 A1 ALLOY 67-07 M07-73419
PURPOSES AND ATTRIBUTES OF METALWORKING LUBRICANTS 67-07 M08-73692
COMMERCIAL FORMS OF ALUMINUM ALLOYS 67-08 M01-74815
CUTTING THICK PLATE 67-08 M07-75947
CORRUGATING COMPONENTS OF SHEET ALUMINIUM STRUCTURES AS A MEANS OF REPRODUCING WELDING DEFORMATIONS 67-08 M08-74776
COMPRESSION AND COLD ROLLING OF DISPERSION STRENGTHENED ALUMINIUM ALLOY --S.A.P.-- 67-08 M17-74410
MILITARY VEHICLES AND EQUIPMENT 67-08 M20-74832
COLD REDUCTION TECHNIQUE PUTS MORE FORGINGS IN THE AIR 67-09 M07-77181
EXPLOSIVE FORMING OF HIGH STRENGTH ALLOYS USED IN BOOSTER STRUCTURES 67-09 M08-77805
COMPARISON OF DEEP DRAWING TESTS --RESULTS OF COOPERATIVE TESTING PROGRAM OF WORKING GROUP III OF THE INTERNATIONAL DEEP DRAWING RESEARCH GROUP-- 67-09 M17-76382
CONTINUOUS SHOT PEENING CATERS FOR VARYING SECTIONS 67-09 M17-76557
DEEP DRAWING OF CYLINDRIC PARTS FROM CONIC BILLETS 67-10 M07-78548
HIGH ENERGY RATE FORMING COMES OF AGE 67-10 M08-78766
DEFORMABILITY OF DEEP-DRAWING SHEETS UNDER BIAXIAL TENSILE STRESS 67-11 M17-80398
REVIEW OF ALLOYS AND FABRICATING METHODS USED FOR TACTICAL MISSILE MOTOR CASES 67-11 M20-80492
EFFECT OF CONTACT CONDITIONS ON METAL FLOW IN UPSETTING CYLINDRICAL BILLETS 67-12 M07-83333
INFLUENCE OF WALL THICKNESS ON PRECISION DURING MANUFACTURE OF BOTTOMS BY SPIN FORMING 67-12 M08-81800

ALUMINUM BASE ALLOYS, METALLOGRAPHY
IMPROVING THE PRECISION OF THE CRYSTALLOGRAPHIC ORIENTATION AND RECIPROCAL DISORIENTATION OF MICROPARTICLES IN AN ELECTRON MICROSCOPIC OBJECT 67-03 M13-65603
INVESTIGATION OF THE CHEMICAL HETEROGENEITY IN WELDED ATSM AND ATSMU ALLOY JOINTS 67-04 M13-67934
ELECTROLYTIC POLISHING OF ALUMINUM GOLD ALLOYS 67-05 M13-69421

ALUMINUM BASE ALLOYS, MICROSCOPY
THE ESTIMATION OF SIZE DISTRIBUTION AND DENSITY OF PRECIPITATES FROM ELECTRON MICROGRAPHS OF THIN FOILS 67-01 M13-58782

ALUMINUM BASE ALLOYS, MICROSTRUCTURE
GROWTH TWINNING IN ALUMINUM ALLOYS 67-01 M14-57412
AGING CHARACTERISTICS OF SOME ALUMINUM-ZINC-MAGNESIUM ALLOYS 67-01 M14-57494
ZONE SEGREGATION IN SHAPED CASTINGS 67-02 M06-60078
CHEMICAL MICROHETEROGENEITY OF CAST ALLOYS IN RELATION TO COOLING RATE 67-02 M13-62159
THE MICROSTRUCTURE OF HOT FORGED ALUMINUM 67-02 M14-59126
THE AGING PHENOMENA AND LATTICE DEFECTS IN ALUMINIUM ALLOYS. PT. 1. INFLUENCE OF FE, SI ON THE PREPRECIPITATION IN AL-ZN ALLOY 67-02 M14-59719
INCLUSION-LIKE, EUTECTIC RICH, STRUCTURAL INHOMOGENEITIES IN HYPOEUTECTIC PRESSURE DIE CASTING 67-02 M14-59732
RECRYSTALLIZATION OF COLD ROLLED SINTERED ALUMINUM PRODUCTS --S. A. P.-- 67-02 M14-60262
THE INFLUENCE OF RECOVERY ON RECRYSTALLIZATION IN ALUMINUM 67-02 M14-60605
EVALUATING THE DEGREE OF INOCULATION OF SILUMIN IN TERMS OF ELECTRICAL CONDUCTIVITY 67-02 M14-61906
SMALL-ANGLE X-RAY SCATTERING STUDY OF THE EARLY STAGES OF AGEING IN THE ALLOY AL-ZN 67-02 M14-61920

ALUMINUM BASE ALLOYS

THE INFLUENCE OF A SECOND-PHASE INTERFACE ON THE WORK HARDENING BEHAVIOR OF AN ALUMINUM-5 AT. PER CENT SILVER ALLOY 67-02 M17-58958
CONTROLLED SOLIDIFICATION 67-03 M14-65337
TRANSMISSION ELECTRON MICROSCOPY STUDY OF COLD WORKED AND ANNEALED STRUCTURES IN ALUMINUM AND TWO ALUMINUM ALLOYS 67-03 M14-65547
STUDY OF AL-ZN SLIGHTLY WORK-HARDENED STRUCTURES AND THEIR EVOLUTION DURING THERMAL TREATMENTS 67-03 M14-65548
THE INFLUENCE OF SECONDARY ELEMENTS ON THE RECRYSTALLIZATION AND GRAIN GROWTH OF AL-MN ALLOYS 67-03 M14-65561
STUDY OF THE MICROSTRUCTURE OF AL-CU-NI ALLOYS 67-04 M13-67159
CHEMICAL MICROHETEROGENEITY IN CAST ALLOYS AS RELATED TO THE COOLING RATE 67-04 M13-67166
EFFECTS OF THE THIRD ADDITION ELEMENTS ON GRAIN SIZE OF PRIMARY SILICON AND ITS COOLING RATE DEPENDENCY IN AL-20 PER CENT SI ALLOY 67-04 M14-67117
QUENCHED-IN VACANCIES AND LOW-TEMPERATURE DIFFUSION IN AL-RICH ALLOYS 67-04 M14-67317
DIRECT OBSERVATION OF SAP STRUCTURE FAULTS 67-04 M17-66046
THE NATURE OF MICROCRACKS IN ALUMINUM ALLOY PRODUCTS 67-04 M17-67835
THE MICROSTRUCTURE OF UNIDIRECTIONALLY SOLIDIFIED AL-CUAL2 EUTECTIC AND AL-SI EUTECTIC ALLOYS 67-05 M13-69853
DENDRITIC STRUCTURE IN COLUMNAR CRYSTALS OF BINARY ALLOYS 67-05 M13-69865
NATURE OF STRUCTURAL CHANGES DURING HEATING OF AL PLUS 5 PER CENT CU PLUS 0.7 PER CENT MN ALLOY WITH A DEFORMATION TEXTURE --111-- PLUS --100-- 67-05 M14-69659
EFFECT OF SMALL ADDITIONS OF TRANSITIONAL ELEMENTS ON THE MICROSTRUCTURE OF AL-MG ALLOYS 67-06 M13-72123
DEVELOPMENT OF CHEMICAL MICROHETEROGENEITY IN BINARY ALUMINUM BASE ALLOYS 67-06 M13-72307
THEORETICAL PROBLEMS OF MODIFYING ALUMINUM AND ITS ALLOYS 67-06 M14-70930
EFFECTS OF THE THIRD ADDITIONAL ELEMENTS ON RAPID COOLED CAST STRUCTURES OF AL-3 5 PER CENT MN ALLOYS. PT. 3. STUDIES ON HYPEREUTECTIC AL-MN ALLOYS 67-06 M14-71215
INFLUENCE OF ANNEALING CONDITIONS AND PRECIPITATION ON THE RECRYSTALLIZATION TEXTURE OF ALUMINUM 67-06 M14-71856
DISCUSSION OF MECHANISMS OF FORMATION OF THETA PRECIPITATES IN AL-4 PER CENT CU BY C. LAIRD AND H. I. AARONSON 67-06 M14-72231
IMPROVED DETERMINATION ON THE CRYSTALLOGRAPHIC ORIENTATION AND MUTUAL DISORIENTATION OF MICROSCOPIC SECTIONS OF AN ELECTRON-MICROSCOPE OBJECT 67-08 M13-74528
MICROSTRUCTURE OF ALLOYS AND PRODUCTS 67-08 M13-74804
WORK HARDENING, RECOVERY, RECRYSTALLIZATION AND GRAIN GROWTH 67-08 M14-74805
ELECTRON MICROSCOPIC INVESTIGATION OF ALLOYS OF THE AL-ZN-MG SYSTEM 67-08 M14-76120
RECRYSTALLIZATION OF BINARY ALUMINUM ALLOYS WITH MANGANESE AND ZIRCONIUM 67-08 M14-76125
NATURE OF FRACTURE OF ALUMINUM ALLOYS IN SOLID-LIQUID STATE 67-08 M17-75878
EFFECTS OF THE COOLING RATE ON DENDRITE SEGREGATION IN BINARY ALUMINUM-COPPER ALLOYS 67-09 M13-76947
COLD ROLLING AND RECRYSTALLIZATION TEXTURES OF 3003 AL-MN ALLOY 67-09 M13-78246
EFFECTS OF HEAT AND SHOCK WAVE TREATMENT ON THE STRUCTURE OF ALUMINUM ALLOYS 67-10 M13-78356
STRUCTURE OF LIQUID ALUMINIUM-COPPER ALLOYS 67-10 M13-78603
MICROSTRUCTURAL CHANGES DURING AND AFTER HOT WORKING OF TECHNICAL AL ALLOYS AND THE INFLUENCE OF THERMAL TREATMENT PRIOR TO HOT WORKING 67-11 M13-80371
DEVELOPMENT OF CHEMICAL MICRO-HETEROGENEITY IN BINARY ALUMINIUM-BASE ALLOYS 67-11 M13-81579
DISCONTINUOUS PRECIPITATION IN DEFORMED AL-CU ALLOYS 67-11 M13-81600
INFLUENCE OF CONCENTRATION OF ALLOYING COMPONENTS IN AL-ZN-MG ALLOYS ON THE GUINIER-PRESTON ZONE COMPOSITION 67-11 M14-80746
FATIGUE-INDUCED REVERSION AND OVERAGING IN DISPERSION STRENGTHENED ALLOY SYSTEMS 67-12 M10-83484
SOME OBSERVATIONS ON THE STRUCTURE OF THE EQUIAXED ZONE IN ALUMINUM-COPPER ALLOYS 67-12 M13-82769

ALUMINUM BASE ALLOYS, NONDESTRUCTIVE TESTING
BETA RAY THICKNESS MEASUREMENTS OF LIGHT ALLOY TUBES 67-01 M19-57989
ULTRASONIC SCATTER IN METALS--ITS PROPERTIES AND ITS APPLICATION TO GRAIN SIZE DETERMINATION 67-02 M19-60774
FACTORS AFFECTING THE POSITION OF THE INJECTION POINT OF ULTRASONIC OSCILLATIONS ON INSPECTING WELDS 67-04 M19-66840
EVALUATION OF MECHANICAL PROPERTIES OF 2014-T6 WELDMENTS BY NONDESTRUCTIVE --EDDY CURRENT-- METHODS 67-05 M19-69086
MECHANIZED FLAW DETECTION--CHECKS VITAL CAR COMPONENTS 67-06 M19-71203
X-RAY AND FLUORESCENT PENETRANT INSPECTION FOR DIE-CAST CAR COMPONENT 67-07 M19-72811
SPRINGENT INSPECTION OF PRESSURE DIECASTING 67-09 M19-77203

ALUMINUM BASE ALLOYS, OPTICAL PROPERTIES
NEUTRON DIFFRACTION STUDIES ON CHROMIUM-BASED CR-V-MN TERNARY DILUTE ALLOYS 67-06 M16-70571

ALUMINUM BASE ALLOYS, OXIDATION
ACCUMULATION OF OXIDES IN ALUMINUM DURING MELTING AND CASTING 67-02 M06-61238
EFFECT OF ALLOYING ELEMENTS ON THE ANODIC OXIDATION OF ALUMINUM 67-09 M18-78060

ALUMINUM BASE ALLOYS, PACKAGING
ECONOMIC AND TECHNICAL ASPECTS OF THE PACKAGING OF ALUMINUM EXTRUSIONS 67-06 M19-71838

ALUMINUM BASE ALLOYS, PHASE TRANSFORMATIONS
THE INFLUENCE OF SMALL ADDITIONS OF SILVER ON THE AGEING OF ALUMINIUM ALLOYS.. OBSERVATIONS ON AL-CU-MG ALLOYS 67-02 M10-61842
THE STRUCTURE OF G. P. ZONES IN ALUMINUM-ZINC ALLOYS AT THE START OF THEIR FORMATION 67-02 M14-58952
INFLUENCE OF ADDITION OF AG OR CU ON THE FORMATION OF G-P ZONE IN AL-ZN ALLOY 67-02 M14-59750
INVESTIGATION OF THE AGING KINETICS OF V95TS ALLOY OF THE AL-ZN-MG SYSTEM 67-02 M14-59762
STRUCTURAL INVESTIGATIONS ON PRECIPITATION IN ALUMINIUM-ZINC-ALLOYS. PT. 1. MODIFICATION OF PRECIPITATION AT ROOM AND AT ELEVATED TEMPERATURES 67-02 M14-60875
KINETICS OF THE DECOMPOSITION OF A QUENCHED ALUMINUM-25 WT.- PER CENT ZINC ALLOY 67-02 M14-61839
AGEING KINETICS OF ALLOYS OF THE SYSTEM AL-SI-CU-MG WITH MODIFYING ADDITIONS 67-05 M10-68834
IDENTIFICATION AND GROWTH TOPOLOGY OF CRYSTALS DEPOSITED IN AN AL-CU-AG ALLOY 67-05 M14-68594
THE ROLE OF LATTICE VACANCIES IN PHASE TRANSFORMATIONS OF BINARY ALLOYS 67-05 M14-69378
STUDY OF STRUCTURAL CHANGES IN THE SECOND STAGE OF DECOMPOSITION OF AL-ZN ALLOY 67-05 M14-69644
DECOMPOSITION OF QUENCHED AL-29 AT. PER CENT ZN 67-06 M13-71020
THE MECHANISM OF STRUCTURE TRANSFORMATIONS IN SUPERSATURATED AL-ZN ALLOYS 67-06 M14-70409
PHASE TRANSFORMATIONS IN AL-ZN ALLOYS 67-06 M14-72344
CONDITIONS FOR THE COLUMNAR-EQUIAXED TRANSITION DURING SOLIDIFICATION OF BINARY ALLOYS 67-07 M14-72528
PHASE DIAGRAMS 67-08 M13-74812
STUDY OF THE NI3AL-NI3TI SYSTEM 67-08 M13-75890
PHASE DIAGRAM OF THE ALUMINUM-RICH PORTION OF AL-MN-LI 67-08 M13-75892
INVESTIGATION OF THE KINETICS OF AGING OF THE V92TS ALLOY OF THE AL-ZN-MG SYSTEM 67-08 M14-76121
EARLY STAGES OF SPINOIDAL DECOMPOSITION IN AN ALUMINUM-ZINC ALLOY 67-09 M13-77594
EFFECTS OF 0.25 PER CENT SILICON ON PRECIPITATION PROCESSES IN AN ALUMINUM-2.5 PER CENT COPPER-1.2 PER CENT MAGNESIUM ALLOY 67-09 M14-76677
CONTRIBUTION TO THE METALLURGY OF STRUCTURAL MODIFICATIONS IN AL-SI ALLOYS 67-09 M14-77008
INFLUENCE OF ADDITIONAL ELEMENTS ON THE PRECIPITATION OF AL-ZN-MG ALLOYS 67-09 M14-78240
THE PARTICIPATION OF HYDROGEN IN THE FORMATION OF

CRYSTALLIZATION CENTERS IN MAGNESIUM MELTS AND IN THE REFINING OF AL-SI-ALLOYS
67-10 M14-78690
THE KINETICS OF REVERSION OF SPHERICAL GUINIER-PRESTON ZONES 67-10 M14-78755
DECOMPOSITION OF A GERMANIUM SOLID SOLUTION TO ALUMINUM IN AN ALUMINUM ALLOY WITH 4 PER CENT GE
67-10 M14-79913
NATURAL AGING KINETICS OF AL-CU AND AL-CU-MG ALLOYS
67-10 M14-79914
PHASE COMPOSITION AND AGEING OF AL-CU-MN-CD ALLOYS
67-12 M01-82421
THE KINETICS OF REVERSION OF SPHERICAL GUINIER-PRESTON ZONES 67-12 M14-83124

ALUMINUM BASE ALLOYS, PHASES /STATE OF MATTER/
INVESTIGATIONS OF THE KINETICS OF SOLUTION OF PRECIPITATES IN A BINARY ALCU-ALLOY AND THE EFFECT OF ADDITIONS OF MAGNESIUM, MANGANESE, SILICON, ZINC AND IRON 67-01 M14-58223
SOLUTE-VACANCY INTERACTION ENERGIES AND THE EFFECT OF 0.009 AT. PER CENT MG ON THE AGING KINETICS OF AN A1-4.01 AT. PER CENT ZN ALLOY
67-02 M14-58945
ON THE HEREDITY OF CAST STRUCTURE DURING HOMOGENIZATION OF ALUMINUM ALLOYS
67-03 M14-65592
INVESTIGATION OF THE KINETICS OF DECOMPOSITION OF SUPERSATURATED SOLID SOLUTION OF D-16 ALLOY
67-03 M14-65788
RESEARCH ON NOBLE METAL ALLOYS CONTAINING HIGHER ELECTROPOSITIVE ELEMENTS. PT. 10. HEAT OF FORMATION OF AL-AU ALLOYS 67-05 M09-69352
COALESCENCE OF DISPERSION PHASES IN ALLOYS OF THE AL-CU, AL-MG AND CD-SB SYSTEMS
67-05 M14-68972
INFLUENCE OF TEMPERATURE AND AGING TIME ON STRUCTURE AND PHASE COMPOSITION OF AMG6 AL ALLOYS
67-06 M14-70074
CRYSTALLOGRAPHIC COMPLEXITIES IN THE AL-CU SYSTEM
67-06 M14-72232
REPLY TO CRYSTALLOGRAPHIC COMPLEXITIES IN THE AL-CU SYSTEM 67-06 M14-72233
REPLY TO COMMENTS ON CRYSTALLOGRAPHIC COMPLEXITIES IN THE AL-CU SYSTEM 67-06 M14-72234
THE EXISTENCE OF THE METASTABLE ALPHA-PRIME PHASE AT THE FIRST STAGES OF DECOMPOSITION OF AL-ZN ALLOY 67-06 M14-72366
CONSTITUTION OF ALLOYS 67-08 M13-74803
THE ORIENTATION AND SHAPE OF THETA PRECIPITATES FORMED IN AN AL-CU ALLOY 67-08 M13-75232
THE RELATION BETWEEN DAMPING BEHAVIOR AND CONSTITUTIONAL OF QUENCHED ALUMINUM-COPPER-MAGNESIUM-SILICON ALLOYS 67-08 M17-76210
INFLUENCE OF ADDITIONAL ELEMENTS ON THE FORMATION OF GP ZONES IN AL-ZN-MG ALLOYS
67-09 M14-78239
EFFECT OF THE TEMPERING TEMPERATURE AND TIME ON THE STRUCTURE AND PHASE COMPOSITION OF THE AMG6 ALLOY 67-10 M14-78820
LAYER STRUCTURE OF CODEPOSITED MN-AL ALLOY FILM
67-11 M13-80819
PHASE COMPOSITION OF ALUMINUM-RICH WELDS ALLOYED WITH RARE EARTH METALS 67-12 M13-81921

ALUMINUM BASE ALLOYS, PHYSICAL PROPERTIES
DETERMINATION OF THE SOLUBILITY OF SI IN DILUTE AL-SI ALLOYS BY LOW-TEMPERATURE RESISTIVITY MEASUREMENTS 67-02 M14-61534
STUDY OF THE EFFECT OF CONSTANT SHEAR STRESS ON AMPLITUDE-DEPENDENT INTERNAL FRICTION
67-04 M15-66864
DILATOMETRIC INVESTIGATIONS OF BINARY ALLOYS IN THE AL-ZN SYSTEMS 67-05 M15-69054
SELF-ABSORPTION IN SOFT X-RAY SPECTRA OF ALLOYS
67-06 M16-71288
EFFECTS OF ALLOYING ELEMENTS AND IMPURITIES ON PROPERTIES 67-08 M01-74807
STRUCTURES AND EQUIPMENT FOR SERVICE AT CRYOGENIC TEMPERATURES 67-08 M20-74826
RESULTS OF INVESTIGATING THE MAGNETOACOUSTICAL EFFECT IN ALUMINUM-BASE ALLOYS
67-10 M15-78358
CALCULATING THE VISCOSITIES OF METAL ALLOYS
67-11 M15-81448
CHARACTERISTICS OF METAL SUBLIMATION IN THE PRESENCE OF AN OXIDIZED SURFACE LAYER
67-12 M14-82170
VISCOSITY OF ALUMINUM AND ALUMINUM-SILICON ALLOYS--INFLUENCE OF THE FILM OF ALUMINA
67-12 M15-81815

ALUMINUM BASE ALLOYS, PIPELINES
ENGINEERING STUDIES SHOW POSSIBILITIES FOR LNG PIPELINE 67-11 M20-80513

ALUMINUM BASE ALLOYS, PISTONS
INVESTIGATION OF ALLOYS FOR PISTONS OF INTERNAL COMBUSTION ENGINES 67-01 M20-57638

ALUMINUM BASE ALLOYS, PLATING
COPPER PYROPHOSPHATE BATHS 67-01 M12-58121

ALUMINUM BASE ALLOYS, POROSITY
EVAPORATION AND FORMATION OF PORES IN ALUMINUM ALLOYS AND CU-ZN ALLOYS 67-02 M15-59763
EVAPORATION AND PORE FORMATION IN ALUMINUM AND COPPER-ZINC ALLOYS 67-08 M15-76119

ALUMINUM BASE ALLOYS, POWDER METALLURGY
NONFERROUS METALS AND ALLOYS PRODUCED BY POWDER METALLURGY 67-01 M09-58374
MECHANICAL PARAMETERS OF COPPER-ALUMINUM CERMETS AS FUNCTIONS OF TEMPERATURE 67-02 M09-60583
ON ALUMINUM ALLOYS WITH REFRACTORY ELEMENTS PRODUCED BY GRANULATION 67-02 M09-61286
THE EFFECT OF THE PARTICLE SIZE OF ALUMINUM POWDER ON THE SINTERING OF A CU-AL ALLOY IN THE PRESENCE OF A LIQUID PHASE 67-02 M09-61783
PHYSICAL AND MECHANICAL PROPERTIES OF HYPEREUTECTIC AL-SI 21 ALLOY SINTERED PRODUCTS
67-02 M09-62289
SINTERED METAL PRODUCTS 67-03 M09-65828
PROPERTIES OF SINTERED ALUMINUM ALLOYS WITH A LOW COEFFICIENT OF LINEAR EXPANSION
67-04 M09-67122
JOINING TECHNIQUES FOR SAP--CLAD NUCLEAR FUEL ELEMENTS 67-07 M11-73825
PROPERTIES OF POWDERS AND POWDER METALLURGY PRODUCTS 67-08 M09-74811
PROPERTIES OF AL-MG-FE ALLOY OBTAINED BY SINTERING OF ATOMIZED POWDERS
67-09 M09-78256
EXTRUSION OF ALUMINUM POWDER COMPACTS
67-10 M09-79981
METALS AND ALLOYS CONTAINING DISPERSION INCLUSIONS OF REFRACTORY COMPOUNDS AND FIBERS
67-11 M09-81308
STRUCTURE AND MECHANICAL PROPERTIES OF LOW-PER CENT FE DISPERSION-STRENGTHENED AL-FEAL3 ALLOYS FOR NUCLEAR APPLICATIONS 67-12 M09-82807
PRODUCTION OF ALUMINUM AND ALUMINUM ALLOY GRANULES FOR SEMIFINISHED PRODUCTS 67-12 M09-83023
EFFECTS OF NONUNIFORMITY OF OXIDE DISPERSION ON MECHANICAL PROPERTIES OF SINTERED ALUMINUM POWDER ALLOYS AT ROOM AND ELEVATED TEMPERATURES
67-12 M09-83112
SINTERING OF COMPACTED POWDERS. PT. 2
67-12 M09-83313
SINTERING OF COMPACTED POWDERS. PT. 1
67-12 M09-83314

ALUMINUM BASE ALLOYS, PRECIPITATION HARDENING
INVESTIGATION OF THE AGING KINETICS OF AN ALLOY IN THE AL-ZN-MG SYSTEM 67-05 M14-69248
TRANSMISSION ELECTRON MICROSCOPY STUDIES ON PRECIPITATION IN AL-AG-CU ALLOYS
67-08 M14-75320

ALUMINUM BASE ALLOYS, QUENCHING /COOLING/
COOLING OF PIECES DURING QUENCHING
67-02 M10-62059

ALUMINUM BASE ALLOYS, RADIATION EFFECTS
INFLUENCE OF MG ON THE RECOVERY OF AL IRRADIATED WITH FAST NEUTRONS AT 78 K 67-05 M15-69336

ALUMINUM BASE ALLOYS, REACTIONS /CHEMICAL/
ALUMINOTHERMAL REDUCTION OF TITANIUM OXIDES
67-02 M03-61721
OXIDE GROWTH IN AN AL-AL203 SAP-TYPE ALLOY BY HOT STAGE TRANSMISSION ELECTRON MICROSCOPY
67-04 M14-66058
ON THE OXIDATION AND REMOVAL BY DIFFUSION OF MG IN AL AND AL-MG ALLOYS 67-05 M15-68757
OXIDE FILM GROWTH OVER FIVE YEARS ON SOME ALUMINUM SHEET ALLOYS IN AIR OF VARYING HUMIDITY AT ROOM TEMPERATURE 67-06 M18-72170

ALUMINUM BASE ALLOYS,
RECRYSTALLIZATION OF AL-MN AND AL-ZR ALLOYS
67-02 M14-59767
DIRECT OBSERVATION OF CHANGE FROM THETA-PRIME TO THETA PHASE IN PRECIPITATION OF AN AL-CU ALLOY
67-05 M14-68872

ALUMINUM BASE ALLOYS, REFINING
METHODS OF DEGASSING ALUMINUM MELTS AND POSSIBILITIES OF CONTROL 67-01 M06-58228
INFLUENCE OF VACUUM DEGASSING ON THE CONTENT OF HYDROGEN AND ALUMINUM OXIDE IN ALUMINUM AND ITS

ALUMINUM BASE ALLOYS

ALLOYS 67-02 M03-61619
CONTINUOUS REFINEMENT OF ALUMINUM ALLOYS USING THE ELECTROSLAG PROCESS 67-02 M03-62172
DEGASSING OF ALUMINIUM AND LIGHT ALLOYS BY BUBBLING-THROUGH NITROGEN THROUGH POROUS REFRACTORY ELEMENTS 67-02 M06-60503
METHODS OF CONTINUOUSLY REFINING ALUMINIUM ALLOYS USING THE ELECTROSLAG PROCESS 67-04 M03-67171
STUDY OF THE POLARIZATION ELECTROMOTIVE FORCES DURING ELECTROLYTIC DEPOSITION OF MG FROM AL-MG ALLOYS 67-05 M03-68962
RECOVERY OF ALUMINUM IS TRICKY STEP. PT. 2 67-06 M03-71315
THE DEGASSING OF AL-SI ALLOY MELTS WITH LUMP TI 67-06 M06-71191
THE CONTROL OF DISSOLVED GASES, FACTOR OF QUALITY IN LIGHT ALLOY FOUNDING 67-06 M06-72153
CONSIDERATIONS ON THE PURIFICATION AND DEGASSING OF ALUMINUM MELTS BY MEANS OF FLUXING GASES 67-10 M03-79083
REFINING OF AL9 ALUMINUM ALLOY BY DIRECT CURRENT 67-10 M03-79146
SOLIDIFICATION OF THE ALUMINUM-SILICON ALLOYS AND THE EFFECT OF ADDITION ELEMENTS. PT. 1 67-10 M14-79082
HOW ELECTROMAGNETIC FORCES HELP TO REMOVE NONMETALLIC INCLUSIONS FROM MOLTEN METALS 67-11 M03-81409
GAS CONTENT VARIATION IN ALUMINUM ALLOYS DURING TREATMENT WITH ZIRCONIUM 67-11 M03-81466
FILTERING ALUMINUM ALLOYS 67-12 M03-81971
GAS ABSORPTION BY AL-MELTS AND THEIR DEGASSING 67-12 M06-83039

ALUMINUM BASE ALLOYS, ROLLING
FORCE PATTERN DURING HOT ROLLING OF ALUMINUM ALLOY TUBES 67-06 M07-71356
ON THE RELATIVE VALIDITY OF TWO CURRENT COLD-ROLLING THEORIES 67-06 M07-71635
ROLLING MILL AT FUSINA 67-07 M07-74262
EQUIPMENT AND LUBRICATION USED WHEN HOT ROLLING TUBES MADE OF ALLOY AMG6 67-08 M07-75095
ROLLING FOIL AT PERMANENTE 67-10 M07-78460
THE ROLLING OF METALS OF LIMITED DUCTILITY 67-10 M07-79534
MANUFACTURE OF PLATE FUEL ELEMENTS FOR RESEARCH REACTORS 67-12 M20-82810

ALUMINUM BASE ALLOYS, SEGREGATIONS
PROBLEM OF THE FORMATION OF A MACROCRYSTALLINE RIM IN PRESSED ARTICLES FROM ALUMINUM ALLOYS 67-01 M14-58292
EFFECTS OF THE MELTING, CASTING AND HEAT TREATMENT TECHNOLOGY THE CHEMICAL HOMOGENEITY OF ALLOYS INVESTIGATED USING ISOTOPES 67-10 M14-79657

ALUMINUM BASE ALLOYS, SHEET /METAL/
ON TESTING DRAW PROPERTIES OF THIN-SHEET METALS ON PTL-10 AND MTL-10 TESTERS 67-01 M17-57246

ALUMINUM BASE ALLOYS, SHIPBUILDING
ALUMINUM--THE AGE OF SHIPS 67-01 M20-58727

ALUMINUM BASE ALLOYS, SHIPS
MARINE APPLICATIONS 67-08 M20-74830

ALUMINUM BASE ALLOYS, SINGLE CRYSTALS
TRANSIENT SOFTENING DURING AGING OF SOME ALUMINUM-BASED SOLID SOLUTIONS 67-12 M10-82977

ALUMINUM BASE ALLOYS, SOLDERING
SOLDERING 67-08 M11-74851

ALUMINUM BASE ALLOYS, SOLIDIFICATION
HEAT EXTRACTION BY METALLIC MOLDS DURING SOLIDIFICATION OF SIMPLE SHAPED ALUMINUM AND ITS ALLOY CASTINGS 67-06 M08-70675

ALUMINUM BASE ALLOYS, SOLUBILITY
INFLUENCE OF THE THIRD COMPONENT ON THE STATE OF SOLID SOLUTION IN AL-CR SYSTEM PRODUCED BY HIGH COOLING RATES 67-10 M14-79139
THE SOLUBILITY OF LEAD IN LIQUID ALUMINUM ALLOYS AT DIFFERENT TEMPERATURES 67-11 M14-81636

ALUMINUM BASE ALLOYS, SPECIFICATIONS
LIGHT METALS AND ALLOYS. ASTM STANDARDS. PT. 6 67-03 M19-65494
BA.LM8 --ALUMINUM CASTING ALLOY-- 67-04 M01-66321

ALUMINUM BASE ALLOYS, STRIP
CONTINUOUS HEAT TREATING FURNACES FOR ALUMINIUM AND LIGHT ALLOY STRIP 67-04 M10-66670

ALUMINUM BASE ALLOYS, STRUCTURES /CRYSTALLINE/
INVESTIGATION BY MEANS OF THE ELECTRON MICROSCOPE OF PRECIPITATION IN AL-CU SOLID SOLUTIONS. PT. 1. THE STRUCTURE OF QUENCHED AL-CU SOLID SOLUTION 67-05 M14-69125

ALUMINUM BASE ALLOYS, SUPERCONDUCTIVITY
EFFECT OF PRECIPITATION ON THE SUPERCONDUCTING PROPERTIES OF AN AL-15 AT . PER CENT ZN ALLOY 67-12 M16-82867

ALUMINUM BASE ALLOYS, SURFACE FINISHING
ON THE BARREL FINISHING OF ALUMINUM SILICON ALLOY CASTINGS 67-01 M12-57618
INFLUENCE OF THE VARIOUS FACTORS AFFECTING THE APPEARANCE OF ANODIZED SHEET CAPABLE OF CAUSING THE CHECKERBOARD EFFECT 67-02 M13-60659
SATIN FINISHES FOR DIE CASTINGS NOW STANDARDIZED 67-04 M12-68134
CHEMICAL BRIGHTENING AND ELECTROBRIGHTENING 67-08 M12-74855
CHEMICAL-ENERGY DEBURRING AS APPLIED TO FUNCTIONAL COMPONENTS 67-10 M12-79190

ALUMINUM BASE ALLOYS, SURFACE PROPERTIES
WEAR MEASUREMENTS ON COATINGS OF METALLIC SURFACES 67-02 M17-60511

ALUMINUM BASE ALLOYS, TENSILE PROPERTIES
PHASE EQUILBRIUM DIAGRAM AND PROPERTIES OF ALUMINUM-SCANDIUM ALLOYS 67-02 M13-60744

ALUMINUM BASE ALLOYS, THERMAL PROPERTIES
THE DEPENDENCE OF THE STABILITY OF THE SOLID SOLUTION OF ALLOY D16 ON THE CHEMICAL COMPOSITION 67-01 M14-58085
THERMOCYCLIC STABILIZING TREATMENT OF SILUMIN AL- ALLOY 67-02 M10-61231
RIGID-BAND BEHAVIOR IN ALUMINUM-BASED ALLOYS-- ELECTRONIC SPECIFIC HEAT 67-05 M15-69816
ECHANCEMENT OF THE LATTICE HEAT CAPACITY DUE TO LOW-FREQUENCY RESONANCE MODES IN DILUTE AL-MG ALLOY 67-08 M15-74473
THE EFFECT OF GRAIN SIZE ON THE LATTICE THERMAL CONDUCTIVITY OF COPPER ALUMINIUM ALLOYS 67-11 M15-80619

ALUMINUM BASE ALLOYS, THERMODYNAMICS
THERMODYNAMIC PROPERTIES OF LIQUID SOLUTIONS OF THE ALUMINUM-TIN SYSTEM 67-02 M15-61715

ALUMINUM BASE ALLOYS, TOWERS
AN ALUMINUM BELL TOWER 67-06 M11-71839
STRUCTURES FOR HIGHWAY, ELECTRICAL, PETROLEUM AND OTHER ENGINEERING APPLICATIONS 67-08 M20-74824

ALUMINUM BASE ALLOYS, TRANSPORT PROPERTIES
HALL COEFFICIENT OF ALUMINUM RICH ALLOYS 67-02 M15-59059

ALUMINUM BASE ALLOYS, TUBING 67-12 M17-83568
TORSION CREEP OF CIRCULAR AND NONCIRCULAR TUBES
TORSION CREEP OF CIRCULAR AND NONCIRCULAR TUBES 67-12 M17-83568

ALUMINUM BASE ALLOYS, TURBOJET ENGINES
MATERIALS USED IN THE MACHINING OF HIGHLY HEAT-RESISTANT MATERIALS IN COMBUSTION ENGINE CONSTRUCTION 67-02 M08-59619

ALUMINUM BASE ALLOYS, WELDABILITY
WELDABILITY OF HIGH-STRENGTH ALLOYS OF THE AL-ZN-MG-CU SYSTEM 67-04 M11-67148

ALUMINUM BASE ALLOYS, WELDED JOINTS
QUALITY EVALUATION OF MISSILE STRUCTURE SPOT-WELDED JOINTS 67-05 M19-69087
OXYGAS AND INERT GAS WELDING OF ALUMINUM AND ALUMINUM ALLOYS 67-06 M11-71817
CALCULATION OF THE STRENGTH OF WELDED STRUCTURES IN ALUMINUM ALLOYS UNDER STATIC AND DYNAMIC STRESS 67-06 M19-71834

ALUMINUM BASE ALLOYS, WELDING
INERT GAS WELDING OF ROTATING AND NONROTATING BUTTS OF A VIAL TYPE ALLOY PIPES 67-01 M11-57533
WIRE AND ROD FOR WELDING ALUMINUM AND ITS ALLOYS. TECHNICAL SPECIFICATIONS FOR PRODUCTION AND DELIVERY 67-01 M11-58141
WELDING BY COMPRESSED ARC ON ALTERNATING CURRENT 67-01 M11-58274
PULSED-ARC WELDING OF ALUMINUM ALLOYS IN ARGON 67-01 M11-58275
WELD-QUALITY MONITOR FOR RESISTANCE WELDING 67-01 M11-58351
WELDING ALUMINUM ALLOY 7039 67-01 M11-58775
DEVELOPMENT OF FILLER METALS FOR WELDING AL-ZN-MG ALLOY 7039 67-01 M11-58776
WELDABILITY OF HIGH-STRENGTH ALUMINUM ALLOYS 67-01 M17-57223
RESULTS OF FATIGUE TESTS ON WELDABLE ALUMINIUM ALLOYS 67-01 M17-58297
STABILITY OF PULSED-ARC WELDING WITH CONSUMABLE ELECTRODE 67-02 M11-59515
AUTOMATIC ARGON-ARC WELDING OF ALUMINUM ALLOYS

67-02 M11-59520
WELDING VACUUM-TIGHT ANGLE JOINTS IN AMG6 ALLOY
67-02 M11-59523
MIG WELDING OF JIS A2P7 ALUMINUM ALLOY
67-02 M11-59722
EXPERIENCE GAINED IN THE AVOIDANCE OF DEFECTS IN THE TIG AND MIG WELDING OF AL
67-02 M11-59814
REPAIR OF ALUMINIUM PATTERNS BY ARGON ARC WELDING
67-02 M11-60015
THE ASSESSMENT OF WELDING DEFECTS BY FATIGUE TESTS
67-02 M11-60105
SELECTION OF THE FUSION WELDING METHOD FOR ALUMINUM AND ALUMINUM ALLOYS 67-02 M11-60131
ELECTRON BEAM WELDING 67-02 M11-60558
CHOOSING A PARAMETER FOR CONTROLLING SPOT WELDING IN ALUMINUM ALLOYS 67-02 M11-60829
GAS SHIELDED WELDING OF BUTT JOINTS BETWEEN AVIAL TUBES 67-02 M11-61152
HETEROGENEITY OF AL-MG ALLOY WELDS
67-02 M11-61256
INFLUENCE OF WELDING HEAT ON MECHANICAL PROPERTIES OF ATSM ALLOY 67-02 M11-61264
ARGON-ARC WELDING ALUMINUM ELEMENTS OF HANGAR ROOFS
67-02 M11-61273
NARROW WELDED JOINTS 67-02 M11-61539
AN ANALYTICAL AND EXPERIMENTAL STUDY OF DIFFUSION BONDING 67-02 M11-61580
EFFECTS OF HIGH-FREQUENCY CURRENT IN WELDING ALUMINUM ALLOY 6061 67-02 M11-61581
TENSILE STRENGTH OF AL AND AL-MG LAP WELDMENTS
67-02 M17-59172
MECHANICAL PROPERTIES OF LARGE SIZE WELDS OF AVIAL ALUMINUM ALLOY 67-02 M17-61245
WELDING AMG61 ALLOY IN HELIUM 67-03 M11-65051
REPORT ON THE PRESENT SCOPE OF NONDESTRUCTIVE TESTING OF RESISTANCE SPOT WELDS
67-03 M11-65450
RESEARCH TEAM LEANS ON COMPUTER TO CONTROL WELD VARIABLES 67-03 M11-65618
ULTRASONICS IN ALUMINUM JOINING
67-04 M11-66248
CONSISTENCY OF PULSED ARC WELDING WITH A CONSUMABLE ELECTRODE 67-04 M11-66464
AUTOMATIC MIG WELDING OF ALUMINIUM ALLOYS
67-04 M11-66469
VACUUM-TIGHT CORNER WELDS IN AMG6 ALLOY
67-04 M11-66472
WELD HETEROGENEITY IN ALUMINIUM-MAGNESIUM ALLOYS
67-04 M11-66529
THE USE OF AL AND AL-ALLOYS IN EQUIPMENT BUILDING AND IN THE CHEMICAL INDUSTRY
67-04 M11-66723
EFFECT OF CHEMICAL COMPOSITION OF FILLER WIRE ON THE STRENGTH OF STEEL-ALUMINUM JOINTS
67-04 M11-66804
CROSSWISE CONTRACTION OF SHEET STRUCTURES MADE OF ALUMINUM ALLOYS 67-04 M11-66805
THERMAL CYCLE OF THE WELD-AFFECTED ZONE IN ELECTROSLAG WELDING OF ALUMINUM ALLOYS
67-04 M11-66806
INVESTIGATION OF THE FORM OF THE ELECTRODE SHAPE IN SPOT WELDING OF ALUMINUM ALLOYS
67-04 M11-66807
COLD AND PRESS WELDING AT HIGH UPSETTING RATES
67-04 M11-66808
RESISTANCE WELDING OF A VAD23 ALLOY
67-04 M11-66830
ARGON ARC WELDING OF HEAT RESISTANT SAP
67-04 M11-66837
EXPERIENCES IN AVOIDING DEFECTS IN THE TIG AND MIG WELDING OF AL 67-04 M11-66883
TECHNIQUES FOR WELDING 7039 ALUMINUM WITH VARIOUS INERT GAS PROCESSES 67-04 M11-67035
CHARACTERISTIC REDISTRIBUTION OF SOLUTE IN FUSION WELDING 67-04 M11-67036
HEAT PROPAGATION DURING THE FUSION WELDING OF ALUMINIUM TO COPPER 67-04 M11-67350
HIGH PERFORMANCE A. C. ARC WELDING
67-04 M11-67355
THE ARGON SHIELDED PULSED ARC WELDING OF ALUMINIUM ALLOYS 67-04 M11-67356
WELDING DESIGN AND PROCESS MANUAL--ALUMINUM
67-04 M11-67492
ELECTRON BEAM BUTT WELDING OF 5254 ALUMINUM ALLOY PRESSURE VESSEL 67-04 M11-67626
SOLID-STATE WELDING OF ALUMINUM
67-04 M11-67628
DIFFUSION WELDING OF DISSIMILAR METALS
67-04 M11-67629
SELECTION OF A METHOD OF FUSION WELDING ALUMINIUM AND ITS ALLOYS 67-04 M11-67671
QUALITY CONTROL OF ULTRASONIC WELDED JOINTS
67-04 M11-67803
WELDING CIRCULAR SEAMS IN ALUMINUM ALLOY SHELLS
67-04 M11-67806
WELDING FLANGES TO A SPHERE IN AMG6 ALLOY
67-04 M11-67816
SELECTION OF A CONTROL VARIABLE FOR SPOT WELDING ALUMINIUM ALLOYS 67-04 M11-67986
THE MECHANICAL PROPERTIES OF LARGE WELDED TEST PIECES MADE OF AVIAL-TYPE ALUMINIUM ALLOYS
67-04 M17-66517
THE INFLUENCE OF WELDING HEAT ON THE MECHANICAL PROPERTIES OF ALLOY ATSM 67-05 M11-68264
ARGON ARC WELDING OF THE ALUMINIUM COMPONENTS OF A HANGAR ROOF 67-05 M11-68273
PICKING A PROCESS TO WELD ALUMINUM
67-05 M11-68481
SPACECRAFT PLUMBING SYSTEMS 67-05 M11-68674
PREVENTING OXIDE INCLUSIONS IN WELDED JOINTS OF AMG6 ALLOY 67-05 M11-69415
STUDY OF THE CONDITIONS OF STRESS RELAXATIONS IN AG SERIES AL ALLOYS USED IN WELDED STRUCTURES
67-05 M17-68787
TRENDS IN ALUMINIUM FABRICATION
67-05 M20-69544
BRIGHT FUTURE FOR ALUMINUM WELDING
67-06 M01-70677
ALUMINUM ALLOYS FOR PRESSURE HULLS
67-06 M11-70123
TOMORROWS CHALLENGE TO WELDING 67-06 M11-70133
IN-PROCESS QUALITY CONTROL OF ULTRASONIC WELDS IN COPPER SHEET 67-06 M11-70303
SOME ASPECTS OF THE WELDING OF CIRCUMFERENTIAL SEAMS IN ALUMINIUM ALLOY VESSELS
67-06 M11-70306
WELDING FLANGES TO A SPHERE OF AMG6 ALLOY
67-06 M11-70316
SOME FEATURES OF QUALITY CONTROL OF CONTACT WELDING USING REFERENCE MATERIAL
67-06 M11-70388
EFFECT OF EDGE DISPLACEMENT ON THE MECHANICAL PROPERTIES OF AN AMG6 ALLOY WELDED JOINT
67-06 M11-70395
IMPROVING THE QUALITY OF HERMETIC SEAMS IN WELDING ALUMINUM ALLOYS 67-06 M11-70397
ELECTRON BEAM WINS WELDING ASSIGNMENT FOR ROCKET ENGINE INJECTOR OF ALUMINUM 67-06 M11-70458
A REMARKABLE ASSEMBLY--A BUBBLE CHAMBER ENVELOPE OF C. E. N. DESACLAY 67-06 M11-70576
PECULIARITIES OF SPOT WELDING OF CLADDINGS AND VARIOUS LIGHT METAL ALLOYS 67-06 M11-71849
PRODUCING HIGH QUALITY RESISTANCE WELDS IN ALUMINUM AND MAGNESIUM 67-06 M11-72245
A STUDY OF CRACKING DURING WELDING OF ALUMINUM ALLOYS 67-06 M17-71632
CONDENSER DISCHARGE WELDING OF ALUMINIUM AND ITS ALLOYS BY EMPLOYING INSERTS 67-07 M11-72417
HELIUM ARC WELDING OF AMG61 ALLOY
67-07 M11-73971
THE DEVELOPMENT OF ALUMINUM ALLOYS HAVING HIGH STRENGTH IN THE WELDED CONDITION
67-07 M11-74031
INCREASING THE FATIGUE LIFE OF SPOT-WELDS IN ALUMINUM AND TITANIUM ALLOYS 67-07 M17-72785
PRACTICAL CORROSION PROBLEMS IN RELATION TO WELDED JOINTS. PT. 2. CORROSION PROBLEMS IN DESIGN 67-08 M11-74702
A WELDED PISTON MADE OF SILUMIN FOR THE D70 DIESEL LOCOMOTIVE 67-08 M11-75409
TEMPERATURE DISTRIBUTION IN THE MOLTEN POOL IN PULSED ARC WELDING OF AMG6 ALLOYS WITH CONSUMABLE ELECTRODE 67-08 M11-75418
EFFECTS OF THE CHEMICAL COMPOSITIONS OF FILLER WIRES ON THE STRENGTH OF JOINTS BETWEEN STEEL AND ALUMINIUM 67-08 M11-75908
THE TRANSVERSE CONTRACTION OF STRUCTURES MADE OF ALUMINIUM ALLOY PLATE 67-08 M11-75909
THE THERMAL CYCLE IN THE HEAT AFFECTED ZONE DURING THE ELECTROSLAG WELDING OF ALUMINIUM ALLOYS
67-08 M11-75910
THE SHAPE OF ELECTRODES FOR SPOT WELDING ALUMINIUM ALLOYS 67-08 M11-75911
COLD AND FORGE WELDING WITH HIGH UPSETTING RATES
67-08 M11-75912
LASER WELDING MOVES UP A NOTCH 67-08 M11-76063
EFFECT OF ADDITIONAL ELEMENTS ON WELD CRACK

ALUMINUM BASE ALLOYS
SUSCEPTIBILITY OF AL-ZN-MG ALLOYS 67-08 M17-75768
WELDING OF ALUMINUM AND ALUMINUM ALLOYS 67-09 M11-76459
ARGON ARC WELDING OF AMG6N ALUMINUM ALLOY SHEET 67-09 M11-76989
CHARACTERISTIC OF THE POWER SOURCE IN AUTOMATIC WELDING OF ALUMINIUM THROUGH FLUX 67-09 M11-77235
AUTOMATIC TIG WELDING OF ALUMINIUM ALLOYS IN THE VERTICAL POSITION 67-09 M11-77240
AUTOMATIC ARGON ARC WELDING OF M4O ALLOY 67-09 M11-77241
INSPECTION OF RESISTANCE WELDS WITH THE AID OF MARKING MATERIALS 67-09 M11-78088
EFFECTS OF ONE EDGE BEING PROUD OF THE OTHER ON THE MECHANICAL PROPERTIES OF WELDED JOINTS IN AMG6 ALLOY 67-09 M11-78095
IMPROVING THE QUALITY OF THE SEALING BEAD WHEN WELDING ALUMINIUM ALLOYS 67-09 M11-78097
WELDING OF VESSELS FROM ALUMINUM ALLOY 67-09 M11-78125
WELDING OF A-Z5G ALUMINUM ALLOY 67-09 M11-78200
INVESTIGATION OF THE PHASE COMPOSITION OF IRON-ALUMINUM WELDS 67-09 M13-76854
DESIGN AND TESTING OF DISSIMILAR METAL TRANSITION JOINTS EMPLOYING ROLL-BONDED AND FRICTION-WELDED COMPONENTS 67-10 M11-78493
THE ELIMINATION OF OXIDE INCLUSIONS FROM WELDED JOINTS IN AMG6 ALLOY 67-10 M11-78519
ELECTRON BOMBARDMENT WELDING 67-10 M11-78767
WELDING IN THE MANUFACTURE OF ROLLING STOCK ON BRITISH RAILWAYS 67-10 M11-78795
WELDING IN U.K. SHIP CONSTRUCTION 67-10 M11-78798
A STATISTICAL ANALYSIS OF ALUMINUM WELDS TESTED AT CRYOGENIC TEMPERATURES 67-10 M17-78487
EFFECT OF AGING ON THE TENSILE PROPERTIES OF ALLOY 7039 GTA WELDS AT LOW TEMPERATURES 67-10 M17-78488
COMPATIBILITY OF ATLAS MATERIALS WITH FLUORINE PROPELLANTS 67-10 M18-78494
REVERSION AND AGING PROCESSES IN AL-ZN-MG ALLOYS 67-11 M11-80392
CONTACT BUTT WELDING PIECES IN HIGH-STRENGTH ALUMINUM ALLOYS 67-11 M11-80639
ELECTROMODELING OF THERMAL PROCESSES IN RESISTANCE SPOT WELDING 67-11 M11-80641
SPOT WELDING COATED AND DISSIMILAR LIGHT ALLOYS 67-11 M11-80881
LOW CURRENT CO2 GAS SHIELDED WELDING PROCESS 67-11 M11-81007
ON THE PRACTICE OF THE GAS WELDING OF ALUMINUM 67-12 M11-81748
RESISTANCE SPOT WELDING OF ALUMINUM-MAGNESIUM ALLOYS ON A MTIP-1000 MACHINE 67-12 M11-81919
FIRST CODE STAMPED PRESSURE VESSEL OF 7039 67-12 M11-81932
THE GAS-SHIELDED WELDING OF ALUMINIUM IN CONTAINER MANUFACTURE, WITH SPECIAL REFERENCE TO LOW-TEMPERATURE TECHNOLOGY 67-12 M11-81964
WELDED SILUMIN PISTONS FOR D70 LOCOMOTIVE ENGINES 67-12 M11-82030
TEMPERATURE DISTRIBUTION IN THE MOLTEN METAL POOL DURING THE VIBROARC WELDING OF AMG6 ALLOY WITH A CONSUMABLE ELECTRODE 67-12 M11-82039
DUCTILE INSERT FOR WELDING STEEL TO ALUMINUM 67-12 M11-82075
PROPERTIES OF ELECTROSLAG WELDS OF AMG6 AL ALLOY 67-12 M11-82624
BUTT FLASH WELDING OF THIN ALUMINUM STRIPS 67-12 M11-82634
ELECTROSLAG WELDING OF ALUMINUM AND ITS ALLOYS 67-12 M11-82636
MATERIAL AND WELDING PROBLEMS IN REACTOR CONSTRUCTION WITH EMPHASIS ON ELECTRON-BEAM WELDING 67-12 M11-83147
WELDING OF A-Z5G ALLOY --AL-ZN-MG-- 67-12 M11-83506
STUDIES ON SURFACE EFFECT AND NOTCH EFFECT ON THE FATIGUE OF WELDED ALUMINUM ALLOYS. PT. 1 67-12 M17-81902
STUDIES ON THE EFFECTS OF LACK OF PENETRATION AND BEAD PROFILES ON THE FATIGUE OF WELDED ALUMINUM ALLOY. PT. 2 67-12 M17-81903
ALUMINUM BASE ALLOYS, X RAY ANALYSIS
ABSOLUTE X-RAY FLUORESCENT SPECTROSCOPY 67-01 M19-57290
ASPECTS AND POSSIBILITIES OF THE SPECTROMETRY OF X-RAY FLUORESCENCE IN ALUMINUM ALLOY ANALYSIS 67-02 M19-59163
RADIOGRAPHIC OBSERVATIONS OF THE SOLIDIFICATION OF METALS 67-08 M14-75138
A METHOD OF DIRECT DIFFRACTIONAL QUANTITATIVE PHASE ANALYSIS OF ALUMINO-SILICON ALLOYS 67-08 M19-75348
QUALITATIVE X-RAY DIFFRACTION MICROANALYSIS. PT. 2 67-12 M19-82302
ALUMINUM BRONZES
AMPCOLOY 495 --HIGH STRENGTH COPPER ALLOY-- 67-02 M01-59489
THE WROUGHT ALUMINUM BRONZES 67-05 M01-69117
COPPER ALLOY NO. 630 --ALUMINUM BRONZE-- 67-07 M01-72833
ALUMINUM BRONZES, CASTING
SHOP FLOOR CONTROL IN COPPER ALLOY FOUNDRIES 67-10 M06-79240
PROTECTIVE MICROALLOYING OF ALUMINUM BRONZE 67-12 M06-82618
ALUMINUM BRONZES, CAVITATION
EFFECT OF STRAINING AND ANNEALING ON THE CAVITATION RESISTANCE OF CERTAIN METALS AND ALLOYS 67-08 M18-74338
ALUMINUM BRONZES, CORROSION
CORROSION/EROSION 67-06 M18-70230
STUDIES IN THE CORROSION OF ALUMINIUM BRONZE IN SALT WATER 67-06 M18-70231
INVESTIGATION OF THERMAL STABILITY OF LOW POROSITY BRONZES 67-08 M18-74311
A BRONZE 67-08 M18-74875
ALUMINUM BRONZES, HEAT TREATMENT
EFFECT OF HEAT TREATMENT ON STRUCTURAL AND MECHANICAL PROPERTIES OF G-CU AL 11 FE 4-UNI 5274 ALUMINUM BRONZE EXTRUDED BARS 67-02 M14-62099
ALUMINUM BRONZES, MACHINING
IMPROVED REAMER REDUCES MACHINING TIME 67-03 M08-65482
ALUMINUM BRONZES, MECHANICAL PROPERTIES
TEMPERATURE DEPENDENCE OF THE MECHANICAL PROPERTIES, MICROSTRUCTURE AND STACKING FAULT ENERGY OF AN ARSENIC-CONTAINING ALUMINUM BRONZE OF THE CUAL15-TYPE 67-05 M17-69586
IMPACT RESISTANCE OF SAND CAST ALUMINIUM BRONZE --BS1400..AB2-- 67-06 M17-69951
PROPERTIES AND APPLICATION OF ALUMINIUM BRONZE 67-08 M01-75032
PROBLEMS ASSOCIATED WITH USE OF COPPER-ALLOY CASTINGS IN MARINE SERVICE 67-08 M17-74901
ELEVATED TEMPERATURE PROPERTIES OF ALUMINUM BRONZE --ALLOY D-- PARENT METAL, ROD AND WELD METAL 67-09 M17-76360
ALUMINUM BRONZES, PHYSICAL PROPERTIES
APPLICATIONS OF ALUMINUM-BRONZE ALLOYS IN THE CHEMICAL INDUSTRY 67-07 M20-73896
ALUMINUM BRONZES, POWDER METALLURGY
ATOMIZING OF BRONZE AND PROPERTIES OF THE POWDER PRODUCED 67-12 M09-82204
ALUMINUM BRONZES, REFINING
OXIDE DROSS IN ALUMINIUM BRONZES 67-09 M03-77799
ALUMINUM BRONZES, WELDING
A NEW TYPE OF ELECTRODE FOR DEPOSITING CAST MANGANESE-ALUMINUM BRONZE 67-01 M12-57158
ALUMINUM CASTINGS
SEE CASTINGS
ALUMINUM COATINGS
SEE ALUMINUM METAL COATINGS
ALUMINUM COMPOUNDS
SEE ALSO ALUMINUM OXIDE
INVESTIGATION OF SODIUM HYDROALUMINOSILICATES, OBTAINED AT VARIOUS TEMPERATURES 67-02 M02-61547
ALUMINUM COMPOUNDS, BAND THEORY
BAND STRUCTURE OF GAAS, GAP, INP AND ALSB.. THE K.P METHOD 67-04 M16-66741
ALUMINUM COMPOUNDS, BINARY SYSTEMS
STRUCTURE AND PROPERTIES OF COMPOUNDS FORMED BY ALUMINA AND OXIDES OF THE ELEMENTS OF GROUP 2-B 67-04 M14-66311
THERMOCHEMICAL INVESTIGATIONS ON THE SYSTEM NAF-ALF3 67-07 M15-73879
ALUMINUM COMPOUNDS, COATINGS
THE EFFECTIVENESS OF SPRAYED CERAMIC FILMS AS A PROTECTION AGAINST OXIDATION OF STEEL

67-02 M18-60282
ALUMINUM COMPOUNDS, CORROSION
THERMOGRAVIMETRIC INVESTIGATIONS OF SUBSTANCES CONTAINING SULFATE WITH HIGH-TEMPERATURE CORROSION ON THE FIRE SIDE OF COAL-FIRED BOILERS
67-02 M18-62009
NEW DEVELOPMENTS IN CORROSION PROTECTION AT CHEMICAL PLANTS BY METAL SPRAYING --METALLIZATION--
67-07 M12-73725
ALUMINUM COMPOUNDS, CRYSTAL LATTICES
DISLOCATION MORPHOLOGY IN SHOCK DEFORMED BCC AND FCC METALS AND ALLOYS
67-04 M13-66071
CRYSTAL STRUCTURE OF HIGHER ALUMINUM BORIDES
67-04 M13-66121
THE CRYSTAL STRUCTURE OF SO-CALLED ALPHA LAAL4 --LA3AL11--
67-07 M13-73436
POINT DEFECTS IN BINARY COMPOUNDS
67-07 M13-74099
THE CRYSTAL STRUCTURE OF THE RHOMBOHEDRAL MODIFICATION OF THE COMPOUND YAL3
67-09 M13-76825
ALUMINUM COMPOUNDS, ELECTRICAL PROPERTIES
SUPERCONDUCTING TRANSITION TEMPERATURES AND LATTICE CONSTANTS FOR THE PSEUDOBINARY SYSTEM NB3AL-NB3SB
67-02 M16-61570
ON THE PREPARATION, OPTICAL PROPERTIES AND ELECTRICAL BEHAVIOR OF ALUMINIUM NITRIDE
67-07 M15-72837
ALUMINUM COMPOUNDS, INCLUSIONS
ON THE SOLUBILITY OF THE NITRIDES OF CHROMIUM, VANADIUM AND ALUMINUM IN AUSTENITE
67-04 M14-67391
STUDY OF THE CONDITIONS OF ALUMINUM NITRIDE FORMATION IN TRANSFORMER STEEL DURING HEATING
67-05 M13-68556
RESEARCH INTO CONDITIONS UNDER WHICH ALUMINIUM NITRIDES ARE FORMED IN TRANSFORMER STEEL WHEN IT IS HEATED
67-07 M13-72467
ALUMINUM COMPOUNDS, MAGNETIC PROPERTIES
MAGNETIC CHARACTERISTICS OF SOME 1..1 COMPOUNDS OF THE LANTHANIDES WITH GOLD AND ALUMINUM
67-03 M15-65130
MAGNETIC AND PARAMAGNETIC RESONANCE PROPERTIES OF EUAL4
67-05 M15-68282
ALUMINUM COMPOUNDS, NUCLEAR PROPERTIES
NUCLEAR MAGNETIC RESONANCE AND MAGNETIC SUSCEPTIBILITY OF SMAL3
67-12 M16-81899
ALUMINUM COMPOUNDS, OPTICAL PROPERTIES
THE DISPERSION OF THE REFRACTIVE INDEX AND THE BIREFRINGENCE OF ALN
67-07 M15-72960
OPTICAL CONSTANTS OF BETA-PHASE NIAL
67-11 M15-81079
ALUMINUM COMPOUNDS, PHASE TRANSFORMATIONS
TRANSFORMATIONS TAKING PLACE DURING THE HEATING OF SINTERED ALUMINUM POWDER
67-02 M09-60894
CALCULATED MODEL FOR NAF-ALF3 SYSTEM
67-12 M13-82732
ALUMINUM COMPOUNDS, PHYSICAL PROPERTIES
PROSPECTS OF PRODUCING MATERIALS WITH SPECIAL PHYSICAL PROPERTIES IN THE ALUMINUM-BORON-NITROGEN SYSTEM
67-06 M15-70184
PHYSICAL PROPERTIES OF ALUMINIDES OF THE TRANSITION METALS
67-07 M15-73276
ALUMINUM COMPOUNDS, POWDER METALLURGY
DISPERSION-STRENGTHENED ALUMINUM OXIDE
67-03 M09-65651
ALUMINUM COMPOUNDS, PRECIPITATION
DISSOLUTION AND PRECIPITATION OF ALUMINUM NITRIDE IN LOW-ALLOY STEEL
67-02 M14-59944
DISSOLUTION AND PRECIPITATION OF ALUMINIUM NITRIDE IN LOW-ALLOY STEEL
67-07 M14-72599
ALUMINUM COMPOUNDS, RADIATION EFFECTS
DIRECT OBSERVATION OF FISSION FRAGMENT DAMAGE IN SOME CERAMIC OXIDES
67-04 M16-67459
ALUMINUM COMPOUNDS, REACTIONS /CHEMICAL/
A METHOD OF PRODUCING HETEROJUNCTIONS BETWEEN COMPOUND SEMICONDUCTORS BY ALLOYING AND SUBSTITUTION REACTION
67-02 M16-59075
FORMATION OF ALKALI SILICATES AND ALUMINO-SILICATES AND THEIR OCCURRENCE IN BLAST FURNACES
67-04 M14-66139
EFFECT OF SOME FACTORS ON THE ALUMINOTHERMAL PROCESS OF PREPARING ALB12 COMPOUNDS
67-09 M03-76852
ALUMINUM COMPOUNDS, REFRACTORIES
ALUMINUM NITRIDE- AND SILICON NITRIDE-BASED REFRACTORY MATERIALS
67-07 M05-72613
ALUMINUM COMPOUNDS, SEMICONDUCTORS
MIXED SCATTERING IN 3-V COMPOUNDS
67-04 M16-66782
ALUMINUM COMPOUNDS, SINTERING
SENSITIVE RESONANT FREQUENCY TECHNIQUE FOR THE STUDY OF SINTERING KINETICS
67-07 M09-72828
ALUMINUM COMPOUNDS, SUPERCONDUCTIVITY
SUPERCONDUCTIVITY OF METALLIC ALUMINUM ANTIMONIDE
67-04 M16-68121
SUPERCONDUCTIVITY AT 20 DEGREES KELVIN
67-07 M16-74245
ALUMINUM COMPOUNDS, SURFACE PROPERTIES
METALLOGRAPHIC INVESTIGATION OF WETTABILITY SPECIMENS
67-07 M15-74276
ALUMINUM COMPOUNDS, SYSTEMS /METALLURGICAL/
MEASUREMENTS OF VAPOR PRESSURE FOR NAF3-ALF3 AND
67-07 M15-73878
ALUMINUM COMPOUNDS, TERNARY SYSTEMS
THE SYSTEM KA1SIO4-MG2SIO4-KA1SI2O6
67-08 M13-76091
STUDY OF THE A1SB-GASB-INSB SYSTEM
67-08 M14-75080
ALUMINUM COMPOUNDS, THERMAL PROPERTIES
MEASURED RELATIVE ENTHALPY OF ANHYDROUS CRYSTALLINE ALUMINUM TRIFLUORIDE, ALF3, FROM 273 11735. AND DERIVED THERMODYNAMIC PROPERTIES FROM 273 TO 1633K
67-09 M15-76415
HEATS OF FORMATION OF ALUMINUM DIBORIDE AND ALPHA-ALUMINUM DODECABORIDE
67-12 M15-82390
ALUMINUM COMPOUNDS, TRANSPORT PROPERTIES
SOME KEY FEATURES OF 3-V COMPOUNDS
67-07 M16-74202
ALUMINUM ORES
SEE ALSO BAUXITE
ALUMINUM ORES, BENEFICIATION
ON THE COMPLEX TREATMENT OF ALKALINE ALUMINATES AND ALUMOSILICATES BY A CARBOTHERMAL METHOD
67-01 M02-57304
INTENSIFICATION OF THE PROCESSES OF SINTERING NEPHELITE CHARGES BY INTRODUCING CARBON ADDITIVES
67-08 M02-75150
INFLUENCE OF COOLING CONDITIONS ON QUALITY OF NEPHELINE SINTER
67-12 M02-83020
ALUMINUM ORES, LEACHING
AUTOCLAVE LEACHING OF FELDSPAR ROCK
67-06 M02-72108
ALUMINUM ORES, REFINING
THERMAL PROPERTIES OF BAUXITES FOR THE SOURCE MATERIALS OF DIRECT REDUCTION STUDIES ON THE PRODUCTION OF CRUDE ALUMINIUM ALLOY BY THE DIRECT REDUCTION OF ALUMINOUS ORES
67-09 M03-77250
ALUMINUM ORES, SINTERING
HOW CHEMICAL COMPOSITION AND HEATING CONDITIONS AFFECT THE SINTER CAKE QUALITY OF NEPHELINE-LIMESTONE BATCHES
67-06 M03-71882
ALUMINUM OXIDE
HIGH-ALUMINA LIGHTWEIGHT PIECES MADE FROM SILLIMANITE RAW MATERIAL
67-02 M05-59782
METHODS FOR PRODUCING ALUMINA FROM CLAY
67-06 M02-71556
ALUMINUM OXIDE, ABRASIVE BELTS
BELT GRINDING EFFICIENCY
67-07 M08-72796
ALUMINUM OXIDE, ABRASIVES
EFFECT OF HEAT TREATMENT ON MECHANICAL PROPERTIES OF ABRASIVE GRAIN
67-08 M17-75569
ALUMINUM OXIDE, ADHESION
ADHERENCE AND WETTABILITY OF NICKEL, NICKEL-TITANIUM ALLOYS, AND NICKEL-CHROMIUM ALLOYS TO SAPPHIRE
67-09 M12-77717
ALUMINUM OXIDE, ALLOYING ADDITIVE
SAP-TYPE ALLOYS SOLID SOLUTION STRENGTHENED WITH MAGNESIUM
67-12 M17-83048
ALUMINUM OXIDE, BENEFICIATION
SEMI-INDUSTRIAL TESTING OF A METHOD OF METALLURGICALLY TREATING RED MUDS IN ROTARY FURNACES
67-05 M03-69535
ALUMINUM OXIDE, BINARY SYSTEMS
LIQUIDUS IN THE ALUMINA-RICH SYSTEM LA2O3-AL2O3
67-07 M14-72832
PHASE DIAGRAM OF THE SYSTEM MNO-AL2O3 AND THE THERMODYNAMIC PROPERTIES OF MNAL2O4
67-12 M13-82407
ALUMINUM OXIDE, BRAZING
BRAZED, VACUUM-TICHT CERAMIC-METAL JOINTS
67-12 M11-83008
ALUMINUM OXIDE, CASTING
EFFECT OF CERTAIN FACTORS ON THE RHEOLOGICAL AND TECHNOLOGICAL PROPERTIES OF ALUMINA DROSS
67-02 M06-59780
INFLUENCE OF THE GRINDING METHOD OF ALUMINA ON THE PROPERTIES OF SLURRY AND THE PROPERTIES OF SLIP

ALUMINUM OXIDE

CAST SINTERED PARTS 67-02 M09-60598
ALUMINUM OXIDE, CERMETS
PREPARATION AND MICROSTRUCTURE OF CERMETS AL2O3-MO AND ZRO2-MO 67-02 M13-62112
ALUMINUM OXIDE, COATING
THE FLAME SPRAYING OF NONMETALLIC PROTECTIVE COATINGS. PT. 8 67-05 M18-68923
METAL COATED WHISKERS 67-07 M09-73361
ADHERENCE TO CERAMIC COMPONENTS OF METAL LAYERS WHICH ARE DIFFICULT TO SEAL 67-09 M12-76749
DEPOSITION AND PROPERTIES OF ALUMINUM OXIDE OBTAINED BY PYROLYTIC DECOMPOSITION OF AN ALUMINUM ALKOXIDE 67-12 M12-82459
ALUMINUM OXIDE, COATINGS
ELECTRICAL PROPERTIES OF AL2O3-NICKEL METAL MULTILAYER FLAME-SPRAYED COATINGS 67-03 M15-65358
OBTAINING A SURFACE LAYER SIMILAR TO SAP 67-04 M12-66878
ON RESIDUAL STRESSES IN SPRAYED COATINGS BY PLASMA-JET
INSTITUTE FOR METALS, PROCEEDINGS. TOKYO, JAPAN. 67-04 M17-67591
METAL PIPE FOR MOLTEN ALLOYS 67-07 M18-74040
PLASMA SPRAYING OF BLAST FURNACE AIR TUYERES 67-08 M12-76266
EXPERIMENTAL RESULTS ON VAPOR DEPOSITION OF ALUMINUM OXIDE ON STEEL 67-09 M12-78027
PLASMA SPRAYING OF BLAST-FURNACE TUYERES 67-10 M12-79259
ADHESIVE STRENGTH OF PLASMA COATINGS WITH THE SUBSTRATES 67-10 M12-79349
SOME PROPERTIES OF OXYACETYLENE FLAME FOR SPRAYING 67-12 M12-83389
ALUMINUM OXIDE, COMPOSITE MATERIALS
INVESTIGATION OF DUCTILE FRACTURE BY MEANS OF AN IRON-ALUMINA COMPOSITE PRODUCED BY SINTERING 67-08 M17-76222
INVESTIGATION OF THE INFLUENCE OF PRECIPITATES AND INCLUSIONS ON THE INITIATION AND PROPAGATION OF CLEAVAGE 67-08 M17-76223
ALUMINUM OXIDE, CORROSION
INVESTIGATION OF INSULATING BRICK IN STEEL PLANT SERVICE 67-01 M04-58453
ALUMINUM OXIDE, CRYSTAL GROWTH
CRYSTAL PERFECTION OF ALPHA-AL2O3 AS A FUNCTION OF GROWTH METHOD 67-02 M14-59488
STUDY ON ELECTROPHORETIC DEPOSITION 67-05 M12-69354
ALUMINA CRYSTAL GROWTH BY SOLID-STATE TECHNIQUES 67-08 M14-76094
THE GROWTH RATE OF DISPERSION PARTICLES IN NICKEL. PT. 1 67-12 M09-82214
ALUMINUM OXIDE, CRYSTAL LATTICES
ELECTRON MICROSCOPY AND DIFFRACTION OF SYNTHETIC CORUNDUM CRYSTALS. PT. 2. DISLOCATIONS AND GRAIN BOUNDARIES IN IMPURITY-DOPED ALUMINIUM OXIDE 67-01 M13-57481
LOW-ENERGY ELECTRON DIFFRACTION OBSERVATIONS OF ALPHA-ALUMINA 67-06 M13-71678
CHANGES OF FINE STRUCTURE OF ALUMINUM POWDERS WHILE HEATING IN OXIDIZING AND INERT MEDIA 67-12 M09-82202
ALUMINUM OXIDE, CRYSTAL STRUCTURE
AN X-RAY STUDY OF 99.99 PER CENT AL ANODIC OXIDE FILMS OBTAINED IN H2SO4 AS ELECTROLYTE 67-06 M13-70221
ALUMINUM OXIDE, CRYSTALLIZATION
EFFECT OF CRYSTALLIZATION CONDITIONS ON THE POSITION OF TRANSITION LINES IN THE CRYOLITE-ALUMINA SYSTEM 67-01 M03-58197
ALUMINUM OXIDE, CUTTING TOOLS
CERAMIC TOOLS--TODAY AND TOMORROW 67-06 M08-70567
ALUMINUM OXIDE, DIFFUSION
LOW-TEMPERATURE DIFFUSION IN INERT-GAS BOMBARDED AL2O3 67-03 M14-65851
IONIC DIFFUSION AT THE ALUMINUM-ALUMINUM OCIDE INTERFACE 67-12 M14-83259
ALUMINUM OXIDE, ELECTRICAL PROPERTIES
HIGH GRADE CERAMICS FOR MICROWAVE AND OTHER APPLICATIONS 67-03 M20-65715
IONIC MIGRATION AS THE BREAKDOWN MECHANISM OF THIN ALUMINUM OXIDE LAYERS 67-06 M15-69961
ELECTRIC INSULATION PROPERTIES OF FLAME-SPRAYED REFRACTORY COATINGS 67-10 M15-79581
ANOMALOUS ELECTRIC CONDUCTION PHENOMENA OF THIN ALUMINUM OXIDE FILMS IN VACUUM 67-12 M15-83547
ALUMINUM OXIDE, ELECTROLYSIS
CURRENT EFFICIENCY IN ALUMINA ELECTROLYSIS 67-06 M03-70917
ALUMINUM OXIDE, EROSION
DUPLEX REFRACTORY SNORKLE TUBE ADVANCES PRESSURE POURING PROCESS 67-07 M05-73843
ALUMINUM OXIDE, EXTRACTION
A CONTINUOUS-ACTION PERCOLATION EXTRACTOR --LEACHER-- FOR ALUMINA PRODUCTION SINTERING 67-01 M02-57274
A HYDROCHEMICAL METHOD OF REPROCESSING ALUMINA-BEARING RAW MATERIALS 67-02 M02-61546
DESILICONIZING CAPACITY OF LIME ON THE BASIS OF DATA ON THE NA2O-AL2O3-CAO-CO2-SIO2-H2O SYSTEM 67-02 M02-62049
KINETICS OF EXTRACTION OF AL2O3 FROM SINTER IN COUNTERFLOW LEACHING APPARATUS 67-02 M03-59192
APPARATUS FOR CONTROL OF ALUMINA PRODUCTION 67-02 M03-59193
METHOD OF JOINT PROCESSING OF NEPHELINE ROCKS AND KAOLINS TO PRODUCE ALUMINA 67-02 M03-61067
CARBOTHERMAL REPROCESSING OF SODIUM ALUMINATE 67-02 M03-61611
EFFECT OF THE WASHING PROCESS ON THE SETTLING RATE OF RED MUDS FROM ALUMINA PRODUCTION 67-04 M03-67529
METHOD FOR PROCESSING NEPHELINE ROCKS 67-05 M02-69246
COMBINED PROCESSING OF ALUMOSILICATE SLAGS WITH NEPHELINE 67-05 M03-68229
SEPARATION OF HYDRATED CALCIUM ALUMINATES FROM ALKALINE ALUMINATE SOLUTIONS AND THEIR DECOMPOSITION 67-05 M03-69257
METHOD OF LEACHING BAUXITES 67-06 M02-70933
METHOD OF PROCESSING HIGH-SILICA HYDRAGILLITE BAUXITES 67-06 M02-70940
LIME SODA SINTER PROCESS. CORRELATION OF REACTION PRODUCTS WITH EXTRACTABILITY OF ALUMINA FROM ANORTHOSITE 67-06 M02-71412
AUTOCLAVE LEACHING OF FELDSPAR ROCK 67-06 M02-72108
STUDY OF THE CHEMICAL COMPOSITION AND STRUCTURE OF ALUMINOSODIUM SILICATES AND WAYS OF REDUCING SODIUM LOSSES IN THE BAYER PROCESS 67-06 M03-70915
METHOD OF PROCESSING HIGHLY FERRUGINOUS AND HIGHLY SILICIOUS BAUXITES 67-06 M03-70934
HOW CHEMICAL COMPOSITION AND HEATING CONDITIONS AFFECT THE SINTER CAKE QUALITY OF NEPHELINE-LIMESTONE BATCHES 67-06 M03-71882
THE MECHANISM OF EXTRACTION OF AL2O3 FROM SINTERED CAKE 67-07 M02-73415
METALLURGICAL TESTING OF HAWAIIAN FERRUGINOUS BAUXITES--CONCLUDING REPORT 67-07 M03-74000
THE RATIONAL UTILIZATION OF HEAT DURING PRODUCTION OF ALUMINA BY THE BAYER METHOD 67-08 M03-75208
EFFECT OF MGO ON THE EXTRACTION OF AL2O3 FROM KAOLIN-LIMESTONE CAKES 67-09 M03-76584
ECONOMIC PROBLEM OF ENERGY SUPPLY FOR THE PRODUCTION OF ALUMINUM OXIDE BY SINTERING 67-09 M03-76739
PROBLEMS OF BAUXITE TREATMENT 67-09 M03-77030
ON THE SILICIC ACID IN BAYER PROCESS 67-10 M02-79943
INFLUENCE OF CRYSTALLIZATION TEMPERATURE ON COMPOSITION AND SOME PROPERTIES OF SODIUM HYDROALUMOSILICATES 67-10 M03-79038
SINTERING OF ORTHITE IN A LOW-ALKALI CHARGE 67-10 M03-79039
INVESTIGATION OF THE ROASTING OF ALUNITE ORE IN THE CONDITIONS OF ROTARY FLUID BED 67-10 M03-79132
THEORY AND PRACTICE OF TREATING KAZAKHSTAN ALUMINA-BEARING RAW MATERIAL 67-10 M03-79807
ON THE PROBLEM OF LEACHING RED SLIME THROUGH HYDROGARNETS 67-10 M03-80055
STUDY OF VANADIUM DISTRIBUTION DURING TREATMENT OF HIGH-SILICON BAUXITES BY THE BAYER-HYDROCHEMISTRY METHOD 67-10 M03-80056
THE EFFECT OF MAGNESIUM OXIDE ON THE PHASE COMPOSITION AND STRUCTURE OF ALUMINOSILICATE SLAGS 67-10 M13-80062
ECONOMIC COMPARISON OF VARIOUS METHODS FOR COMPLEX PROCESSING OF RED SLURRIES 67-11 M03-80754
APPARATUS FOR EVAPORATION AND CRYSTALLIZATION OF ALUMINATE SOLUTIONS AND SEPARATION OF CRYSTALS 67-11 M03-81220

METHOD OF OBTAINING ALUMINA 67-11 M03-81222
PROCESSING LOW-GRADE BAUXITES TO ALUMINA 67-11 M03-81506
INFLUENCE OF COOLING CONDITIONS ON QUALITY OF NEPHELINE SINTER 67-12 M02-83020
INVESTIGATION OF CERTAIN FACTORS INFLUENCING ALUMINA QUALITY. PT. 2 67-12 M03-81792

ALUMINUM OXIDE, FIBER METALLURGY
INFLUENCE OF CONSTITUENT PROPERTIES UPON THE STRUCTURAL EFFICIENCY OF FIBROUS COMPOSITE SHELLS 67-01 M17-58521
FIBER-REINFORCED METALS 67-07 M09-72752

ALUMINUM OXIDE, FURNACE LINERS
REFRACTORY EXPERIENCES IN CRUCIBLE STEEL COMPANYS DORTMUND-HORDER DEGASSING UNIT 67-07 M04-72776
REFRACTORY PROGRESS IN THE ALUMINIUM INDUSTRY 67-07 M15-74285

ALUMINUM OXIDE, HEAT TREATMENT
METHOD OF COOLING CALCINATED ALUMINA IN A FLUIDIZED BED 67-10 M02-79848

ALUMINUM OXIDE, LEACHING
PHOTOMANOMETRIC TRANSDUCER OF PRESSURE-FLUCTUATION AMPLITUDES 67-12 M03-83092

ALUMINUM OXIDE, MACHINING
THERMAL ELECTRON BEAM MACHINING OF DIAMOND AND ALUMINA CERAMICS 67-10 M08-79507

ALUMINUM OXIDE, MAGNETIC PROPERTIES
ZEEMAN EFFECT OF AL2O3..V3PLUS IN HIGH MAGNETIC FIELD 67-08 M15-74435

ALUMINUM OXIDE, MECHANICAL PROPERTIES
DISLOCATION MOVEMENT IN THE BRITTLE FRACTURE OF ALUMINA 67-02 M17-58948
MECHANISM OF BRITTLE FRACTURE 67-02 M17-60706
ON THE DUCTILE BEHAVIOR OF NOMINALLY BRITTLE MATERIALS DURING EROSIVE CUTTING 67-03 M17-65936
CR2O3 SOLID SOLUTION HARDENING OF AL2O3 67-05 M14-68612
HIGH-TEMPERATURE CREEP OF AL2O3 CERAMICS 67-06 M17-70565
TENSION TESTING ALUMINA WHISKERS 67-06 M17-70686
STRUCTURE AND PROPERTIES OF ALUMINUM OXIDE WHISKERS 67-07 M17-73135
CHEMICALLY STRENGTHENED, LEACHED ALUMINA AND SPINEL 67-08 M17-76090
EFFECT OF MGO AND MGTIO3 DOPING ON DIFFUSION-CONTROLLED CREEP OF POLYCRYSTALLINE ALUMINUM OXIDE 67-08 M17-76095
TEMPERATURE DEPENDENCE OF THE ULTRASONIC ATTENUATION IN AL2O3 67-11 M17-80777
THERMAL SHOCK AND FRACTURE IN CERAMICS 67-12 M17-81898

ALUMINUM OXIDE, MELTING
MELTING POINT OF ALUMINUM OXIDE AND RELATED OBSERVATIONS 67-04 M15-66666

ALUMINUM OXIDE, METALLOGRAPHY
X-RAY DIFFRACTION TECHNIQUE FOR RAPID SURFACE AREA DETERMINATION 67-02 M13-58901

ALUMINUM OXIDE, MICROSTRUCTURE
THEORY OF GRAIN GROWTH IN POROUS COMPACTS 67-03 M14-65866
PRELIMINARY STUDY OF THE CHEMICAL POLISHING OF ALPHA-CORUNDUM SURFACES WITH VANADIUM PENTOXIDE 67-06 M12-72171
DIRECT OBSERVATION OF NONBASAL DISLOCATIONS IN SINTERED ALUMINA 67-12 M13-82995

ALUMINUM OXIDE, OXIDATION
STABILITY OF SOME REFRACTORY MATERIALS IN CRYOLITE-ALUMINA MELTS 67-05 M03-68959

ALUMINUM OXIDE, PHASE TRANSFORMATIONS
ON REACTION IN THE SYSTEM NA2O-AL2O3-FE2O3-H2O AT 90 DEGREES 67-10 M14-80063

ALUMINUM OXIDE, PHYSICAL PROPERTIES
THE RELATIONSHIP OF PHYSICAL PROPERTIES, MICROSTRUCTURE, AND FABRICATION 67-02 M15-60707
DETERMINING THE THERMAL CONDUCTIVITY COEFFICIENT AND RADIATION CAPACITY OF ALUMINUM OXIDE COVERINGS 67-04 M16-66873
ELECTROCONDUCTIVITY OF ALUMINUM OXIDE 67-06 M15-71361
SOLID-SOLID INTERFACIAL ENERGY DETERMINATIONS IN METAL-CERAMIC SYSTEMS 67-10 M15-78914
DENSITIES AND SURFACE PROPERTIES OF IRON-COBALT-NICKEL MELTS AT 1550 C 67-11 M15-81449
EFFECT OF ENVIRONMENT UPON THE MELTING POINT OF AL2O3 67-12 M15-82391
SCHOTTKY FIELD EMISSION THROUGH AL-AL2O3-AL STRUCTURES 67-12 M16-81848

ALUMINUM OXIDE, POWDER METALLURGY
ROLE OF POWDER METALLURGY IN THE FABRICATION OF VERY LARGE PARTS 67-01 M09-58683
ATOMIZING TECHNIQUES AS AUXILIARY MEANS IN THE POWDER SINTERING PROCESS 67-02 M09-58932
DIRECT CURRENT PLASMA--A NEW SPHEROIDIZING PROCESS 67-02 M09-59468
HOT-PRESSED TRANSLUCENT OXIDES 67-02 M09-60710
ON SINTERING CERMETS IN METAL-ALUMINUM OXIDE SYSTEMS 67-04 M09-67838
INVESTIGATION OF PROPERTIES OF EXTRUDED NICKEL-ALUMINUM OXIDE ALLOYS 67-05 M09-68704
OXIDE DISPERSION-STRENGTHENED PLATINUM 67-05 M09-68945
HYDROSTATIC PRESSING OF POWDERS 67-07 M09-73861
SOME PROBLEMS OF ISOSTATIC COMPACTING OF METAL POWDERS IN ELASTIC SHELLS 67-08 M09-75456
BENCH SCALE ISOSTATIC PRESSING 67-08 M09-75525
CRITERIA FOR THE SELECTION OF ADDITIVES TO ENABLE THE SINTERING OF ALUMINA TO PROCEED TO THEORETICAL DENSITY 67-09 M09-77527
EFFECTS OF RESIDUAL GAS ON THE SINTERING OF ALUMINA TO THEORETICAL DENSITY IN VACUUM 67-09 M09-77528
FABRICATION OF BICRYSTALS OF ALUMINIUM OXIDE 67-10 M09-79603
PRODUCING INTRICATE SHAPES BY HOT PRESSING ALUMINUM OXIDE 67-12 M09-82640
PROPERTIES OF EXTRUDED NICKEL-ALUMINA ALLOYS 67-12 M09-82680

ALUMINUM OXIDE, REACTIONS /CHEMICAL/
RATE OF DISSOLUTION OF SODIUM HYDROALUMOSILICATE IN ALKALINE SOLUTIONS 67-02 M02-61282
A KINETIC STUDY ON THE REACTION OF THE ALUMINA CRUCIBLE WITH CARBON DISSOLVED IN MOLTEN IRON 67-02 M14-60144
REFRACTORIES IN HYDROGEN ATMOSPHERES 67-07 M14-74012
THE LOSS RATE OF ALUMINUM IN CRYOLITE-ALUMINA MELTS 67-08 M03-76241

ALUMINUM OXIDE, RECOVERING
EFFECTIVENESS OF COMPLEX TREATMENT OF RED MUD IN ROTARY FURNACES 67-06 M03-71351

ALUMINUM OXIDE, REDUCTION /CHEMICAL/
PHYSICOCHEMICAL CHARACTERISTICS OF THE THERMAL REDUCTION OF ALKALI ALUMINATES 67-08 M03-75019
HEAT CONSUMPTION IN ALUMINUM OXIDE CALCINING KILN 67-12 M03-82831

ALUMINUM OXIDE, REFINING
TESTING THE METHOD OF AUTOCLAVE-FREE DESILICATION OF ALUMINATE SOLUTIONS 67-06 M03-71307
TECHNOLOGY OF ELECTROLYTIC REDUCTION OF ALUMINA BY THE HALL-HEROULT PROCESS. PT. 4. CHEMICAL PROCESSES ASSOCIATED WITH THE ANODE EFFECT 67-07 M03-73610
TECHNOLOGY OF ELECTROLYTIC REDUCTION OF ALUMINA BY THE HALL-HEROULT PROCESS. PT. 3. THE ANODE REACTION DURING ELECTROLYTIC DECOMPOSITION OF THE ALUMINA 67-07 M08-73609
THE USE OF GRAY MUD AS A DESILICATION ADDITION 67-08 M03-76240
INVESTIGATION OF THE EFFECT OF SOME FACTORS ON THE QUALITY OF PROCESSED ALUMINA 67-09 M03-76821
POSSIBILITIES OF IMPROVING ALUMINA PURITY 67-09 M03-77760
METHOD FOR THE ACID TREATMENT OF ALUMINA RAW MATERIAL OF HIGH SILICA CONTENT 67-11 M03-81221

ALUMINUM OXIDE, REFRACTORIES
REFRACTORIES AND FURNACE DESIGN FOR MELTING ALUMINUM 67-01 M05-57930
TRENDS IN IRON AND STEEL PLANT REFRACTORIES 67-07 M05-73719

ALUMINUM OXIDE, SINGLE CRYSTALS
FLOATING-ZONE REFINING BY ELECTRON BOMBARDMENT 67-01 M14-57982

ALUMINUM OXIDE, SINTERING
ANALYSIS OF THE OPERATION OF ROTARY SINTERING FURNACES IN ALUMINA PRODUCTION 67-02 M02-60959
DETECTION OF THE STRUCTURE OF SINTERED MATERIALS OF THE ME-MEO SYSTEM BY IONIC BOMBARDMENT 67-06 M13-70966

ALUMINUM OXIDE, SOLUBILITY
SOLID SOLUTION OF TITANIUM DIOXIDE IN ALUMINUM

ALUMINUM OXIDE
OXIDE 67-04 M14-67323
SOLUBILITY OF HYDROGEN IN POROUS POLYCRYSTALLINE ALUMINUM OXIDE 67-11 M14-81558
ALUMINUM OXIDE, SUBSTRATES
SINGLE-CRYSTAL GROWTH ON ALPHA-AL2O3 SUBSTRATE 67-03 M14-65642
ALUMINUM OXIDE, SURFACE PROPERTIES
REACTION OF ALUMINA WITH CESIUM VAPOR 67-04 M14-67759
ALUMINUM OXIDE, TERNARY SYSTEMS
PHASE RELATIONS IN THE SYSTEM CAO-AL2O3-IRON OXIDE 67-10 M05-79601
ALUMINUM OXIDE, THERMAL PROPERTIES
THERMAL EXPANSION AND ELASTIC PROPERTIES OF TWO-PHASE CERAMIC BODIES 67-05 M15-68611
MEASURING THE THERMAL CONDUCTIVITY COEFFICIENTS AT HIGH TEMPERATURES OF HEAT RESISTANT MATERIALS 67-06 M15-71827
GAMMA-IRRADIATION EFFECT ON THE THERMAL CONDUCTIVITY OF AL2O3 WITH CR OR MN IMPURITIES AT LOW TEMPERATURE 67-11 M15-80225
ALUMINUM OXIDE, THIN FILMS
DEFORMATION OF ANODIC OXIDE FILMS 67-02 M17-61764
SEMI-AUTOMATIC PREPARATION OF ULTRA-THIN AND LARGE-AREA PETROLOGICAL SECTIONS 67-03 M05-65673
THE THICKNESS AND OPTICAL PROPERTIES OF FILMS OF ANODIC ALUMINIUM OXIDE 67-05 M15-68636
LARGE-AREA PLANAR AND NONPLANAR ALUMINUM OXIDE FILMS 67-11 M12-80830
ALUMINUM OXIDE, VAPORIZING
EVAPORATION OF POROUS OXIDE CERAMIC AT HIGH TEMPERATURES 67-03 M05-65304
ALUMINUM OXIDE, WEAR
APPLICABILITY OF SINTERED ALUMINIUM OXIDE AS A WEAR-RESISTING AND HEAT-RESISTING MATERIAL 67-06 M09-71705
FRICTION CHARACTERISTICS IN VACUUM OF SINGLE AND POLYCRYSTALLINE ALUMINUM OXIDE IN CONTACT WITH THEMSELVES AND WITH VARIOUS METALS 67-10 M17-78552
ALUMINUM OXIDE, WELDING
WELDING CERAMIC MATERIALS TO METALS 67-10 M11-78404
ALUMINUM PLATING
CHROMALUMINIZING 67-02 M18-60861
THE ELECTRODEPOSITION OF ALUMINIUM 67-05 M12-68831
A NEW PROCESS FOR ALUMINIUM COATING STEEL STRIP 67-06 M12-72020
ALUMINUM COATING OF URANIUM REACTOR PARTS FOR CORROSION PROTECTION 67-07 M18-74241
NEW TECHNIQUE OF CHEMICOTHERMAL TREATMENT OF TRANSITION METALS IN MOLTEN ALUMINUM 67-08 M12-74975
NEW CHROMIZING AND CHROMIUM-ALUMINIZING PROCESSES 67-08 M12-75609
FORMATION AND DEGRADATION MECHANISMS OF ALUMINIDE COATINGS ON NICKEL-BASE SUPERALLOYS 67-08 M14-75978
ALUMINIZED WIRE ROPE RESISTS CORROSION AT SEA 67-08 M18-75551
STRESS CORROSION RESISTANCE OF AN ELECTROLYTICALLY ALUMINIZED STEEL 67-09 M18-78040
THE METALLIC COATING OF GRAFTED ABS POLYMERS 67-10 M12-79884
THE PRESENT STAND OF METAL SPRAY TECHNOLOGY. PT. 3 67-11 M12-81135
DRY-POWDER ALUMINIZING OF STEEL STRIP 67-11 M12-81139
OXIDATION RESISTANT METALLIC COATINGS 67-12 M12-82608
ALZAK PROCESS
SEE ANODIZING
ELECTROPOLISHING
AMALGAMS
SEE MERCURY AMALGAMS
AMBIENT PRESSURE
SEE PRESSURE
AMERICIUM, EXTRACTION
SIMULTANEOUS SEPARATION OF THE ELEMENTS RA, PU, U, AM AND CM FROM IRRADIATED THORIUM 67-12 M16-82238
AMERICIUM COMPOUNDS, ELECTRICAL PROPERTIES
SELF-IRRADIATION DAMAGE IN TRANSURANIC ELEMENTS AND COMPOUNDS 67-09 M15-76314
AMPERAGE
SEE ELECTRIC CURRENT
AMPLIFICATION
SEE ALSO POWER GAIN
VOLTAGE GAIN
ULTRASONIC AMPLIFICATION AND NONOHMIC BEHAVIOR IN TELLURIUM 67-04 M16-66777
TRAVELING-WAVE AMPLIFICATION BY DRIFTING CARRIERS IN SEMICONDUCTORS 67-10 M15-79124
AMPLIFIERS
SEE ALSO LASERS
TRAVELING WAVE TUBES
CONTINUOUS AMPLIFICATION OF ULTRASOUND IN CADMIUM SELENIDE 67-11 M15-81054
AMPLIFYING
SEE AMPLIFICATION
AMSLER TESTING MACHINE
SEE AMSLER WEAR TEST
AMSLER WEAR TEST
A FRICTION AND WEAR STUDY OF HADFIELD MANGANESE STEEL 67-03 M17-65599
THE RELATION BETWEEN THE DRY WEAR OF CAST IRON AND ITS STRUCTURE 67-04 M17-67112
ANALOG COMPUTERS
AUTOMATIC SLAG CONTROL IN THE BASIC OXYGEN PROCESSES 67-07 M04-73030
AUTOMATIC CONTROL OF OPENHEARTH MELTING WHEN OXYGEN IS USED 67-08 M04-74348
SIMULATION OF CLOSED-LOOP ENERGY CONTROL APPLIED TO ARC FURNACES 67-11 M04-81138
SYSTEMS STUDY FOR A CONTROL COMPUTER AT THE NEW CASTLE 18 IN. CONTINUOUS MILL 67-12 M07-83173
ANALOG COMPUTERS, STEEL MAKING
ANALOG-CODE AND CODE-ANALOG CONVERTERS AND INFORMATION COMMUTATORS FOR URAL-2 67-08 M04-74897
ANALYTICAL CHEMISTRY
SEE CHEMICAL ANALYSIS
ANALYZING
SEE CHEMICAL ANALYSIS
DEBYE SCHERRER METHOD
SIEVE ANALYSIS
X RAY ABSORPTION
ANCHORS, WELDING
SPECIAL ASPECTS OF HEAT TREATED ANCHOR WELDS IN CONCRETE REINFORCING RODS 67-01 M11-58290
ANDRADE METHOD
SEE CRYSTAL GROWTH
SINGLE CRYSTALS
ANDROFORMING
SEE STRETCH FORMING
ANELASTICITY
GRAIN-BOUNDARY SLIDING IN METALS 67-02 M13-61780
INTERNAL FRICTION IN N-ALPHA FE SOLID SOLUTIONS WITH DIFFERENT PURITY AND GRAIN SIZE 67-02 M17-61599
DETERMINATION OF THE DIFFUSION COEFFICIENT OF IMPURITIES BY ANELASTIC METHODS 67-04 M14-66223
ANELASTICITY AND INTERNAL FRICTION DUE TO POINT DEFECTS IN CRYSTALS 67-04 M17-66222
USE OF ANELASTICITY IN INVESTIGATING RADIATION DAMAGE AND THE DIFFUSION OF POINT DEFECTS 67-04 M17-66228
ANELASTICITY MEASUREMENTS IN THE MG-CD ALLOY SYSTEM 67-04 M17-66535
ELASTICITY AND ANELASTICITY OF URANIUM OXIDES AT ROOM TEMPERATURE. PT. 1. STOICHIOMETRIC OXIDE 67-06 M17-71164
ANELASTIC BEHAVIOR OF ISOLATED POINT DEFECTS IN CRYSTALS OF H C P STRUCTURE 67-07 M13-73903
ANELASTIC TECHNIQUES--IRON, A CASE HISTORY 67-08 M17-74697
MIGRATION OF LOCALIZED IMPERFECTIONS AND ANELASTIC RELAXATION DUE TO DISLOCATIONS IN TANTALUM 67-09 M13-78165
ABNORMAL PHENOMENA AT STRESS RELAXATION IN BERYLLIUM BRONZE 67-09 M17-77128
THE COLD-WORK DAMPING PEAK IN ALPHA-IRON 67-09 M17-77930
THE DIFFUSION OF CARBON IN NICKEL ABOVE AND BELOW THE CURIE TEMPERATURE 67-12 M14-82969
A COMPREHENSIVE CREEP MODEL 67-12 M17-83243
ANELASTICITY, IMPURITY EFFECTS
IMPURITY-DOPE EFFECTS ON THE ANELASTICITY OF GRAPHITE 67-05 M17-69292
ANGLE IRON, ROLLING
MODERNIZATION OF THE ANGLE SECTION MILL AT DISTRICT IRON AND STEEL COMPANY, LIMITED 67-07 M07-73087

ANGLES /GEOMETRY/
SEE CONTACT ANGLE
ANION EXCHANGING
EXTRACTION OF LEAD BY SOME AMINES AND CHLOROUS SALTS WITH QUATERNARY AMMONIA BASE 67-02 M03-62046
THE STATE OF HYDROGEN IN STEEL 67-10 M14-78746
CATION EXCHANGE SEPARATION OF TRACES OF MAGNESIUM AND SOME OTHER METALS FROM HIGH-PURITY ALUMINIUM 67-12 M03-82515
ANIONS
ROLE OF ANIONS IN THE CORROSION AND CORROSION-INHIBITION OF ZINC IN AQUEOUS SOLUTIONS 67-07 M18-73699
ANISOTROPY
SEE ALSO MAGNETIC ANISOTROPY
EFFECTS OF GASES ON THE PROPERTIES OF VAPOR-DEPOSITED NI-FE FILMS 67-01 M15-57113
DOMAIN STRUCTURE OF HEXAGONAL FERRIMAGNETIC OXIDES WITH HIGH ANISOTROPY FIELD 67-01 M15-57120
ENERGY DEPENDENCE OF ANISOTROPY OF DEFECT PRODUCTION IN ELECTRON IRRADIATED DIAMOND-TYPE CRYSTALS. PT. 1. EXPERIMENTAL MEASUREMENTS ON N- AND P-TYPE SILICON 67-01 M16-57944
ENERGY DEPENDENCE OF ANISOTROPY OF DEFECT PRODUCTION IN ELECTRON IRRADIATED DIAMOND-TYPE CRYSTALS. PT. 2. THEORETICAL MODEL 67-01 M16-57945
INVESTIGATION OF THE ANISOTROPY OF MICROHARDNESS IN BE, TE, SB, INBI, IN2TE3 SINGLE CRYSTALS AND TE-SE SOLID SOLUTIONS 67-01 M17-58096
THE STRESS-STRAIN RELATIONSHIP OF MACROSCOPIC ELASTIC STRESSES AND THE LATTICE STRAINS OBSERVED BY X-RAY DIFFRACTION METHODS 67-01 M17-58442
CONTRAST EFFECTS DUE TO ELASTIC ANISOTROPY IN BETA-BRASS 67-02 M13-60814
TEMPERATURE DEPENDENCE OF UNIAXIAL ANISOTROPY AND ANISOTROPY DISPERSION IN NI-FE THIN FILMS 67-02 M15-59070
EFFECT OF PLASTIC DEFORMATION AND HEAT TREATMENT ON THE MAGNETIC ANISOTROPY OF A CO-PT ALLOY 67-02 M15-59662
THE COERCIVITY OF PERMANENT MAGNETS 67-02 M15-61030
MICROHARDNESS ANISOTROPY, SLIP, AND TWINNING IN MO2C SINGLE CRYSTALS 67-02 M17-59437
THE EFFECT OF ANISOTROPY AND WORK-HARDENING CHARACTERISTICS ON THE STRESS AND STRAIN DISTRIBUTION IN DEEP DRAWING 67-03 M07-65940
ANISOTROPY OF THE HALL EFFECT IN GADOLINIUM 67-03 M15-65306
ANISOTROPY OF DISSOLUTION OF SI CRYSTALS IN AN AL MELT 67-04 M14-67058
DEVELOPMENT OF RECRYSTALLIZATION TEXTURES IN SILICON IRON AFTER LOW AND MEDIUM DEFORMATIONS 67-04 M14-67614
VARIATION IN SURFACE ENERGY AS A FUNCTION OF THE CRYSTALLOGRAPHIC ORIENTATION IN SILICON IRON SINGLE CRYSTALS 67-04 M16-67656
ANISOTROPIC ENERGY GAP IN SUPERCONDUCTING WHITE TIN.. SEMIEMPIRICAL APPROACH 67-04 M16-68139
DETERMINATION OF THE ANISOTROPY OF THE ENERGY GAP IN SUPERCONDUCTING PB BY SUPERCONDUCTIVE TUNNELING 67-04 M16-68141
THE INTERACTION BETWEEN DISLOCATION LOOPS AND STRAIGHT DISLOCATIONS IN AN ANISOTROPIC MATERIAL, GRAPHITE 67-05 M13-68758
DEPENDENCE OF CARRIER SCATTERING ANISOTROPY IN N-GE ON IMPURITY CONCENTRATION 67-05 M15-68576
THE DEPENDENCE OF THE ANISOTROPY OF PROPERTIES IN ZIRCONIUM STEELS ON HEAT TREATMENT 67-05 M17-68449
ANISOTROPY OF THE CORROSION PROPERTIES OF ALLOY STEEL 67-05 M18-69051
CRYSTAL ANISOTROPY AND SATURATION MAGNETIZATION OF HARD FERRITES WITH A COMPOSITION NEAR THE M- COMPOUND PREPARED BY MEANS OF THE VERNEUIL METHOD 67-06 M05-70996
THE NATURE OF TRANSITION TEXTURES IN COPPER 67-06 M13-69935
THE MECHANISM OF RIDGING IN FERRITIC STAINLESS STEELS 67-06 M13-71077
ANISOTROPIC DIFFUSION OF MERCURY IN ZINC 67-06 M14-69911
EFFECT OF HEATING RATE ON RECRYSTALLIZATION AND ANISOTROPY IN ALUMINIUM-KILLED AND RIMMED SHEET STEELS 67-06 M14-71337
MAGNETIZATION CURVE FOR THIN FERROMAGNETIC FILMS 67-06 M15-72370
THE ANISOTROPY OF THE ELECTRONIC PROPERTIES OF INTRINSIC CDSE 67-06 M16-70465
ON THE INFLUENCE OF ELASTIC ANISOTROPY ON X-RAY MEASUREMENTS OF LATTICE STRAINS IN THE FERRITE OF FERROUS MATERIALS 67-06 M17-70051
PLASTIC ANISOTROPY OF TANTALUM, NIOBIUM, AND MOLYBDENUM 67-06 M17-71530
ASSESSING NORMAL ANISOTROPIC PLASTICITY OF SHEET METALS 67-06 M17-71897
EPITAXIAL GROWTH OF VO2 SINGLE CRYSTALS AND THEIR ANISOTROPIC PROPERTIES IN ELECTRICAL RESISTIVITIES 67-07 M14-73996
ANISOTROPY OF THE EXTRAORDINARY HALL EFFECT OF NI SINGLE CRYSTALS 67-07 M15-72409
ANISOTROPY IN DRAWING STEELS 67-08 M13-74520
THE INFLUENCE OF LARGE ELASTIC ANISOTROPY ON THE DETERMINATION OF BURGERS VECTORS OF DISLOCATIONS IN BETA BRASS BY ELECTRON MICROSCOPY 67-08 M13-75222
THE IDENTIFICATION OF BURGERS VECTORS AND UNSTABLE DIRECTIONS OF DISLOCATIONS IN BETA BRASS 67-08 M13-75223
THERMOMAGNETIC EFFECTS IN ANISOTROPIC MEDIA 67-08 M15-75224
ENERGY OF MAGNETIC ANISOTROPY AND ITS RELATIONSHIP TO TEMPERATURE AND HEAT TREATMENT IN NI-CO ALLOY 67-08 M15-75257
THE MAGNETIC ANISOTROPY AND THE COERCIVE FORCE OF A PERMANENT MAGNET ALLOY, VICALLOY 67-09 M15-77255
METHOD OF ASSESSING THE PLASTIC ANISOTROPY OF SHEET METAL 67-09 M17-78071
DEPENDENCE OF UNIDIRECTIONAL ANISOTROPY ON THE DEGREE OF ATOMIC ORDER IN A NI3MN ALLOY 67-10 M15-79837
ANISOTROPY, IMPURITY EFFECTS
INFLUENCE OF IMPURITIES ON ANISOTROPY OF MECHANICAL PROPERTIES IN STEELS 67-04 M17-66356
ANISOTROPY, MECHANICAL PROPERTIES
A METHOD OF DETERMINING PLASTIC ANISOTROPY OF SHEET METAL 67-04 M17-67091
ANISOTROPY, STRESS EFFECTS
METALLOGRAPHIC INVESTIGATIONS ON WC SINGLE CRYSTALS 67-06 M13-70246
ANITMONY COMPOUNDS, BAND THEORY
EVIDENCE FOR ABSENCE OF ELECTRONS FROM CONDUCTION BAND IN N-INSB AT LOW TEMPERATURES 67-08 M16-75003
ANNEALING
SEE ALSO BATCH ANNEALING
BRIGHT ANNEALING
CONTINUOUS ANNEALING
DIFFUSION ANNEALING
HOMOGENIZING /METALLURGICAL/
ISOTHERMAL ANNEALING
MAGNETIC ANNEALING
MALLEABLIZING
OPEN COIL ANNEALING
PULSE HEATING
SOLUTION ANNEALING
SPHEROIDIZING
STABILIZING ANNEALING
STRAIN ANNEALING
TEMPER ANNEALING
VACUUM ANNEALING
NEW ANNEALING FACILITY ADDS METALLURGICAL CONTROL TO PRODUCTION 67-01 M10-57439
THE HEAT TREATING OF LIGHT METALS 67-01 M10-58012
EFFECT OF MEDIUM AND ANNEALING TEMPERATURE ON PROPERTIES OF MOLYBDENUM 67-01 M10-58054
HOW BLACK ANNEALING AFFECTS ORIENTED TRANSFORMER SHEET PRODUCTION 67-01 M10-58167
LARGE STEEL CASTINGS HEAT TREATED IN SELF-GENERATING ATMOSPHERE FURNACE 67-01 M10-58448
ACCELERATED COOLING AFTER COIL ANNEALING 67-01 M10-58492
CHANGE IN THE FINE STRUCTURE OF BRASS DURING ANNEALING 67-01 M13-58090
CHANGE OF METALS BY RECRYSTALLIZATION 67-01 M13-58360
ON THE EMBRITTLING PHENOMENON OF COPPER ALLOYS DURING ANNEALING. --REPORT 2--. FACTORS AFFECTING THE EMBRITTLEMENT OF ALPHA BRASS DURING ANNEALING 67-01 M17-57453
SHORT CUTTING OF SPHEROIDIZING DURATION OF BALL

BEARING STEEL BY AUSTEMPERING ANNEALING 67-02 M10-59154
NEW METHOD FOR THE THERMAL TREATMENT OF ALUMINUM STRIP. PT. 2. 67-02 M10-59974
BASIC HEAT TREATING PRACTICES 67-02 M10-60863
THE PROBLEM OF COOLING --ANNEALING-- FORGINGS OF STEELS WHICH ARE SUSCEPTIBLE TO HYDROGEN EMBRITTLEMENT 67-02 M10-61754
A SOFTENING HEAT TREATMENT FOR LARGE FORGINGS FROM MARTENSITIC-CLASS STEELS 67-02 M10-61875
PRESENT KNOWLEDGE ABOUT POINT DEFECTS IN DEFORMED FACE-CENTERED-CUBIC METALS 67-02 M13-60601
LOW-TEMPERATURE ANNEALING OF PLASTICALLY DEFORMED METALS 67-02 M13-61930
ACCOMMODATION FAULTING IN FE-NI MARTENSITIC TRANSFORMATION 67-02 M14-58968
THE EFFECT OF HEAT TREATMENT ON SOME PROPERTIES OF COLD-ROLLED STRIP 67-02 M14-59808
THE ANNEALING BEHAVIOR OF HIGH PURITY IRON 67-02 M14-60607
ANNEALING OF SILICON-IRON SINGLE CRYSTALS 67-02 M14-60608
ON THE INTERPRETATION OF ANNEALING TEXTURES OF WIRES OF FCC METALS AND ALLOYS 67-02 M14-61897
EFFECTS OF NEUTRON IRRADIATION AND VACUUM ANNEALING ON OXIDE FILMS ON ZIRCONIUM 67-02 M16-59025
INFLUENCE OF DIFFERENT HEAT TREATMENTS ON THE CREEP PROPERTIES OF A HIGH-TEMPERATURE CHROMIUM-NICKEL ALLOY WITH AN ADDITION OF MOLYBDENUM 67-02 M17-60655
ANNEALING STUDY IN ELECTRON-IRRADIATED N-TYPE SILICON 67-03 M16-65898
EFFECTS OF ANNEALING TEMPERATURE ON THE SKELETON NICKEL STRUCTURE 67-04 M09-67864
TESTING COMMERCIAL LUBRICANTS FOR TENDENCY TOWARDS CARBON FORMATION DURING ANNEALING OF ALUMINUM SHEETS 67-04 M10-66979
ALPHATIZING--A NEW CHROMIZING METHOD 67-04 M12-67799
VARIATION IN THE FINE CRYSTAL STRUCTURE AND TENSILE STRENGTH OF TUNGSTEN ON ANNEALING 67-04 M14-67642
EFFECT OF ANNEALING IN A MAGNETIC FIELD APPLIED ALONG THE HARD OR EASY AXIS, ON THE PROPERTIES OF THIN MAGNETIC FILMS 67-04 M15-67659
THE COLD WORKING AND SOFTENING OF COPPER ALLOYS 67-04 M17-66152
SELECTING AN ANNEALING TEMPERATURE FOR WELDED BRASS CONSTRUCTIONS 67-04 M17-66433
STUDIES ON WROUGHT EUTECTIC-TYPE ALUMINUM-SILICON ALLOYS 67-04 M17-67118
A SECTIONAL FURNACE FOR HEAT TREATING TUBES 67-05 M10-68559
ANNEALING OF COLD ROLLED AL ALLOYS. PT. 2. STUDY ON AL-CU, AL-FE ALLOYS 67-05 M10-68866
ANNEALING OF COLD ROLLED AL ALLOYS. PT. 3. STUDY ON AL-MN, AL-SN ALLOYS 67-05 M10-68867
DEFECTS IN THE HEAT TREATMENT OF COLD ROLLED STEEL STRIP. PT. 1. DEFECT OF ANNEALED LOW-CARBON STEEL STRIP 67-05 M10-69076
CONTROLLED ANNEALING OF MALLEABLE IRON CASTINGS IN ELEVATOR-TYPE ELECTRIC FURNACE 67-05 M10-69549
ROLLING AND ANNEALING TEXTURE OF --112-- --163-- COPPER SINGLE CRYSTAL 67-05 M14-68569
OPEN COIL ANNEALING OF STEEL SHEET FOR SINGLE-COAT VITREOUS ENAMEL 67-06 M07-70501
LOSS OF STRENGTH DURING ANNEALING OF STRAINED ALLOYS OF NICKEL-ALUMINIUM OXIDE 67-06 M09-72327
EFFECT OF PRERECRYSTALLIZATION ANNEALS ON STRUCTURE AND MECHANICAL PROPERTIES OF COLD STRAINED 1KH18N9T STEEL 67-06 M10-70291
A METHOD OF HEAT TREATING TRANSFORMER STEEL 67-06 M10-70347
A METHOD OF HEAT TREATING TRANSFORMER STEEL 67-06 M10-70348
SELECTING EQUIPMENT FOR STRUCTURAL ANNEALING OF BALL BEARING STEEL 67-06 M10-71261
CAUSES FOR THE FORMATION OF CRUST ON THE ROLLERS OF TOWER-TYPE FURNACES DURING HEAT TREATMENT OF STEEL STRIP 67-06 M10-71263
NEW HEAT TREATMENT DEPARTMENT AND WAREHOUSE FOR KAYSER ELLISON & CO. LTD 67-06 M10-71298
HEAT TREATMENT OF THE DIAMANT ROCKET AT NORD-AVIATION 67-06 M10-71905
HEAT TREATMENT OF WROUGHT COPPER ALLOYS 67-06 M10-71908
STEADY STATES DURING ANNEALING NIOBIUM AND TANTALUM IN OXYGEN 67-06 M14-71666
STEADY STATES DURING HEAT TREATMENT OF NIOBIUM AND TANTALUM UNDER WATER VAPOR 67-06 M14-71726
EFFECT OF GRAIN SIZE AND ANNEALING TREATMENT ON STEADY-STATE CREEP OF COPPER 67-06 M17-69931
INFLUENCE OF ELECTROTHERMAL TREATMENT ON MECHANICAL PROPERTIES OF COLD DEFORMED STEEL 67-06 M17-70077
EFFECT OF STRUCTURE AND CHEMICAL COMPOSITION ON THE MECHANICAL PROPERTIES AND DEFORMING CHARACTERISTICS OF HYPOEUTECTOID HARDENABLE STRIP STEELS IN ANNEALED CONDITION 67-06 M17-71749
METALLURGICAL IMPROVEMENTS IN THE QUALITY OF COLD ROLLED RIMMED STEEL SHEET IN DEEP-DRAWING QUALITY 67-06 M17-72293
A MULTI-STAGE FURNACE FOR HEAT TREATMENT OF TUBES 67-07 M10-72470
EXPERIENCES WITH OIL-FIRED BELL-TYPE ANNEALING FURNACES 67-07 M10-72564
HEAT TREATMENT OF RAILWAY ROLLING STOCK COMPONENTS 67-07 M10-72905
HEAT TREATMENT OF LARGE FORGINGS 67-07 M10-73717
THE APPLICATIONS AND ADVANTAGES OF AIR COILS --OR PNEUMATIC COILS-- FOR A CONTINUOUS AUTOMATIC RECORDING OF THE MAGNETIC VALUES OF SILICON STEEL STRIP 67-07 M10-73809
DEFECTS OF ANNEALED HIGH-CARBON STEEL STRIP 67-07 M14-73263
SELECTING THE STRESS RELIEVING TEMPERATURE FOR BRASS STRUCTURES 67-07 M17-72692
HEAT TREATMENTS OF TITANIUM AND ITS ALLOYS 67-08 M10-74749
USE OF PROTECTIVE AND REACTION GASES IN THE HEAT TREATMENT OF COLD FORMED STEEL BLANKS 67-08 M10-75510
SELECTION OF EQUIPMENT FOR STRUCTURAL ANNEALING OF BALL-BEARING STEEL 67-08 M10-75730
FORMATION OF DEPOSITS ON ROLLERS OF TOWER FURNACES DURING HEAT TREATMENT OF STEEL STRIP 67-08 M10-75732
SEMICONTINUOUS COIL ANNEALING FURNACES INCREASE ALUMINUM OUTPUT AND SURFACE QUALITY 67-08 M10-76176
PARTICLE COARSENING IN INTERNALLY OXIDIZED SILVER-MAGNESIUM ALLOYS 67-08 M14-75335
PRESS FORMING OF STAINLESS STEELS 67-09 M08-78142
EFFECT OF THE METHOD OF RECRYSTALLIZATION ANNEALING USED FOR COILED TRANSFORMER STEEL SHEET ON THE SPECIFIC ELECTRICAL LOSSES 67-09 M10-76711
ACCELERATED ANNEALING CONDITIONS AND THE MECHANICAL PROPERTIES OF INOCULATED MALLEABLE CAST IRON 67-09 M10-76979
THE IMPORTANCE OF SURFACE TREATMENT DURING DECARBURIZING ANNEALING OF COMMERCIAL IRON 67-09 M10-77088
MOLYBDENUM ALLOYS 67-09 M17-77324
COLUMBIUM ALLOYS 67-09 M17-77327
EFFECT OF CERTAIN PRODUCTION FACTORS ON THE PROPERTIES OF COIL TRANSFORMER STEEL 67-10 M10-78440
THE EFFECT OF VARIOUS HEAT TREATMENTS ON THE SOLUBILITY OF C IN ALPHA FE AND THE ELIMINATION OF AGING IN LOW CARBON STEELS 67-10 M10-78591
CUTTING COST OF MALLEABLE ANNEALING 67-10 M10-79178
FASTER COIL ANNEALING 67-10 M10-79499
THE HEAT TREATMENT OF SILICON BRONZES 67-10 M10-79653
RESEARCH INTO THE PROCESSES TAKING PLACE WHEN TIN-PHOSPHORUS BRONZE IS ANNEALED FOR HOMOGENIZATION 67-10 M10-79654
EFFECT OF QUENCH RATE ON MECHANICAL PROPERTIES OF SUPRACRITICALLY ANNEALED AND QUENCHED MILD STEEL STRIP 67-10 M10-79768
A STUDY OF EFFECTIVE VOLUMETRIC SELF-DIFFUSION IN SINTERED NICKEL 67-10 M14-78318
EFFECT OF IMPURITIES ON THE ANNEALING BEHAVIOR OF IRRADIATED SILICON 67-10 M16-79154
EFFECT OF ELECTROTHERMAL TREATMENT ON THE MECHANICAL PROPERTIES OF COLD WORKED STEEL 67-10 M17-78823
THE BASIC PRINCIPLES OF HEAT TREATMENT OF STEELS. PT. 7. STEELS FOR USE AT LOW TEMPERATURES 67-11 M10-80394

THE REFINEMENT OF PLATINUM BY ANNEALING IN AIR
67-11 M14-80320
THE INFLUENCE OF ANNEALING ON THE STRUCTURE OF POLYCRYSTALLINE PERMALLOY THIN FILMS
67-11 M14-80608
ON THE EFFECT OF COLD WORK ON THE OXIDATION OF IRON FROM 400 TO 650 C 67-11 M18-80715
ANNEALING MALLEABLE IRON CHILL CASTINGS
67-12 M10-81985
TEMPERING WELDED STRUCTURES 67-12 M10-82310
EFFECT OF CERTAIN TECHNOLOGICAL FACTORS ON PROPERTIES OF TRANSFORMER STEEL IN COILS
67-12 M10-83438
PROPERTIES OF MOTTLED IRON AT ELEVATED TEMPERATURES
67-12 M17-81980
ON THE EMBRITTLING PHENOMENON OF COPPER ALLOYS DURING ANNEALING. PT. 4. EMBRITTLEMENT OF CHROMIUM COPPER DURING TEMPERING
67-12 M17-82133

ANNEALING, ALLOYING EFFECTS
THE ANNEALING OF QUENCHED-IN VACANCIES IN DILUTE ALUMINIUM ALLOYS 67-11 M10-80302
ANNEALING, CONTROLLED ATMOSPHERES
PRODUCTION-LINE HEAT TREATMENT OF LIGHT ENGINEERING COMPONENTS--PRESENT TRENDS 67-08 M10-74753
ANNEALING, FURNACES
NEW 196-FT. ROLLER HEARTH FURNACE INSTALLED AT BETHLEHEM-LOS ANGLES 67-01 M10-58526
ANNEALING, RADIATION EFFECTS
EFFECTS OF VARIOUS DOPING TREATMENTS UPON THE DAMAGE PRODUCTION AND RECOVERY OF DEUTERON-IRRADIATED ALUMINUM 67-11 M16-81392
ANNEALING FURNACES
OPERATION OF A CONVEYOR FURNACE FOR TUBE ANNEALING IN A PROTECTIVE ATMOSPHERE OF DISSOCIATED AMMONIA
67-02 M10-61881
AN APPARATUS FOR THE INDUCTION ANNEALING OF COPPER WIRE 67-04 M10-66101
OPERATION OF A CONVEYER FURNACE FOR ANNEALING TUBES IN A PROTECTIVE ATMOSPHERE OF CRACKED AMMONIA
67-04 M10-67700
FIRST OPEN COIL ANNEALING PLANT FOR U. K.
67-05 M10-69595
SELECTING EQUIPMENT FOR STRUCTURAL ANNEALING OF BALL BEARING STEEL 67-06 M10-71261
CAUSES FOR THE FORMATION OF CRUST ON THE ROLLERS OF TOWER-TYPE FURNACES DURING HEAT TREATMENT OF STEEL STRIP 67-06 M10-71263
FORMATION OF DEPOSITS ON ROLLERS OF TOWER FURNACES DURING HEAT TREATMENT OF STEEL STRIP
67-08 M10-75732
SEMICONTINUOUS COIL ANNEALING FURNACES INCREASE ALUMINUM OUTPUT AND SURFACE QUALITY
67-08 M10-76176

ANNEALING FURNACES, CONTROLLED ATMOSPHERES
MALLEABLE IRON ANNEALING TUNNEL FURNACE PROVIDES PRECISELY CONTROLLED CYCLE 67-09 M10-77743
ANODES
SEE ALSO SACRIFICIAL ANODES
PREVENTION OF CORROSION IN PAPERMAKING MACHINES. CATHODIC POLARIZATION WITH PLATINUM-TITANIUM ANODES 67-05 M18-69418
TECHNOLOGY OF ELECTROLYTIC REDUCTION OF ALUMINA BY THE HALL-HEROULT PROCESS. PT. 4. CHEMICAL PROCESSES ASSOCIATED WITH THE ANODE EFFECT
67-07 M03-73610
FUNDAMENTAL STUDY OF THE APPLICABILITY OF CARBIDES TO THE CONSTRUCTION OF HIGH-POWER TUBES
67-07 M20-73836
MACHINE FOR DRIVING IN ANODE SHAFTS OF ALUMINUM ELECTROLYTIC CELLS WITH LATERAL CURRENT SUPPLY
67-11 M03-81219
PRODUCTION OF NEW TYPES OF CARBON RAW MATERIAL FOR ALUMINUM AND ELECTRODE INDUSTRY
67-11 M03-81435

ANODES, BAKING
SINTERING AND PREBAKING OF ELECTRODE CHARGE
67-02 M03-62053

ANODES, CORROSION
THE EFFECT OF SULFUR, PHOSPHORUS AND SILICON ADDITIVES ON THE ACTIVITY AND TYPE OF CORROSION OF NICKEL ANODES 67-03 M18-65417
DEGRADATION MECHANISMS OF PLATINUM- AND RHODIUM-COATED TITANIUM ANODES IN THE ELECTROLYSIS OF CHLORIDE AND CHLORIDE-CHLORATE SOLUTIONS
67-06 M18-71697
CONSIDERATIONS AND EXPERIMENTS FOR A CRITICAL EVALUATION OF THE PT-COATED TI ANODES
67-11 M18-80804

ANODES, DISSOLVING
INFLUENCE OF SULFATE IONS ON ANODIC BEHAVIOR OF NICKEL 67-01 M18-58703
ANODES, ELECTRICAL PROPERTIES
P-TYPE PHOTOELECTRIC BEHAVIOR IN CDS DOMINATED BY A HIGH-RESISTIVITY REGION NEAR THE ANODE
67-06 M16-69922
ANODES, MATERIALS
INFLUENCE OF BAKING TEMPERATURE ON ELECTRICAL AND THERMOELECTRICAL PROPERTIES OF PETROLEUM COKE
67-02 M15-59194
STUDY OF THE PROCESS OF DEGASSING CARBON BLACK-PITCH COMPOSITIONS DURING ROASTING
67-05 M03-69536
ANODES, METAL WORKING
FULLY AUTOMATIC HYDRAULIC PRESS FOR THE MANUFACTURE OF BLOCK ANODES 67-01 M07-58225
ANODES, REACTIONS /CHEMICAL/
BEHAVIOR OF NICKEL ANODES IN PLATING ELECTROLYTES
67-11 M12-80417

ANODES, SERVICE TIME
CONSUMPTION OF ANODE MASS IN ELECTROLYSIS OF ALUMINUM 67-02 M03-61612
ANODIC CLEANING
IMPROVED PROCESS FOR DRAWING, CLEANING AND PRECISION WINDING OF COAXIAL CENTERWIRE
67-05 M07-68672
INVESTIGATION OF PROTECTIVE FILMS ON AL FORMED DURING ELECTROLYTIC AND CHEMICAL POLISHING
67-05 M12-68860

ANODIC COATINGS
PRODUCTION OF COLORED ANODIC OXIDE FILMS ON ALUMINUM 67-01 M12-58361
CONTRIBUTION TO THE THEORY OF ELECTROCHEMICAL IMPEDANCES. APPLICATION TO A CASE OF ANODIC POLISHING 67-02 M12-59419
EFFECT OF COPPER CONTENT AND HOMOGENIZATION HEAT TREATMENT ON BRIGHT ANODIZING OF 1MG AL ALLOY SHEETS 67-03 M12-65040
INVESTIGATION OF PROTECTIVE FILMS ON AL FORMED DURING ELECTROLYTIC AND CHEMICAL POLISHING
67-05 M12-68860
WEAR RESISTANCE PROPERTIES OF HARD ANODIZED COATINGS. PT. 1 AND 2 67-05 M12-68896
THE THICKNESS AND OPTICAL PROPERTIES OF FILMS OF ANODIC ALUMINIUM OXIDE 67-05 M15-68636
METALLURGICAL STUDIES ON ELECTRICAL CONTACT MATERIALS. PT. 3. STUDIES ON BATH COMPOSITIONS FOR ELECTROPLATING OF SILVER-COPPER ALLOYS
67-11 M12-80506
HARD ANODIC OXIDE FILMS ON ALUMINUM WITH IMPROVED ELECTROINSULATION PROPERTIES 67-11 M12-81291
ANODIC COATINGS, CORROSION
TESTING OF ANODIC COATINGS ON ALUMINUM
67-04 M18-67791
EVALUATION OF ACCELERATED CORROSION TESTS FOR ANODIZED ALUMINIUM 67-05 M18-68823
FIVE-YEAR EXPOSURE TESTS ON ANODIZED ALUMINIUM IN A SEVERE INDUSTRIAL ATMOSPHERE 67-05 M18-68824
THE EFFECT OF NEON BOMBARDMENT ON THE CORROSION OF ZR 67-08 M18-74792
ANODIC COATINGS, CRYSTAL STRUCTURE
AN X-RAY STUDY OF 99.99 PER CENT AL ANODIC OXIDE FILMS OBTAINED IN H2SO4 AS ELECTROLYTE
67-06 M13-70221

ANODIC COATINGS, HEAT TREATMENT
THE HEAT-TREATMENT OF ANODIC OXIDE FILMS ON TANTALUM. PT. 6. THE EFFECT OF CHEMICAL THINNING
67-09 M15-77894

ANODIC COATINGS, MICROSTRUCTURE
THE EMBRITTLEMENT OF OXIDE FILMS ON ZIRCONIUM BY NEUTRON IRRADIATION 67-07 M13-74234
ANODIC COATINGS, OPTICAL PROPERTIES
OPTICAL STUDIES ON VARIOUS ANODIC OXIDE FILMS ON AL
67-05 M15-68895

ANODIC COATINGS, SORPTION
SORPTION AND PROTECTIVE PROPERTIES OF ANODIC OXIDE FILMS ON ALUMINUM AFTER FILLING THEM WITH WATER
67-11 M14-81290

ANODIC COATINGS, SURFACE PROPERTIES
ANODIZING OF ALUMINIUM ALLOYS--METALLURGICAL STRUCTURE FACTORS 67-04 M13-67788
ANODIC OXIDATION
SEE ANODIZING
ANODIC POLARIZATION
SEE POLARIZATION /ELECTRODES/
ANODIC PROTECTION
THE INFLUENCE OF ALLOYING ELEMENTS ON ALUMINUM ANODES IN SEA WATER 67-03 M18-65473

ANODIC PROTECTION

CORROSION RESISTANCE OF ALUMINUM AND STAINLESS STEEL DURING ANODIC POLARIZATION 67-04 M18-67291
LOCAL CORROSION OF THE ANODE IN THE LOW TEMPERATURE HARD ANODIZING PROCESS OF ALUMINUM 67-04 M18-67594
DESIGNING WITH ALUMINUM--ALLOYS FOR VARIOUS CORROSIVE ENVIRONMENTS 67-05 M18-68792
ELECTROCHEMICAL INVESTIGATION OF STRESS CORROSION CRACKING AND ITS PRACTICAL APPLICATION 67-07 M18-73696
CORROSION OF AL ALLOYS AFTER BEING EXPOSED FOR FIVE YEARS IN DIFFERENT MARINE SITES 67-08 M18-75380
FIELD TESTING A NEW ALUMINUM ANODE. AL-HG-ZN GALVANIC ANODE FOR SEA WATER APPLICATIONS 67-08 M18-75740
TITANIUM APPLICATIONS IN THE CHEMICAL INDUSTRY 67-09 M18-78026
SOME NOTES ON CURRENT DISTRIBUTION IN CATHODIC PROTECTION SYSTEMS 67-10 M18-79429
PRESENT-DAY PROBLEMS OF INHIBITION 67-10 M18-79927
HOW SHELL USES COMPUTER IN CORROSION CONTROL PROGRAM 67-11 M18-80512
EFFECT OF CNS-IONS ON THE ANODIC BEHAVIOR OF KH18N10T STEEL IN SULFURIC ACID AND SOME POSSIBILITIES OF MODELING SYSTEMS WITH A PASSIVATING ANODE 67-11 M18-81281
PROTECTION OF METALS WITH ELECTRIC CURRENTS 67-12 M18-82351
GALVANIC PROTECTION--ANODIC POLARIZATION OF SEVERAL GRADES OF SPANISH ZINC 67-12 M18-83578

ANODIC PROTECTION, ALLOYING EFFECTS

ALUMINUM GALVANIC ANODES. PT. 1 67-08 M18-75355
ALUMINUM GALVANIC ANODES. PT. 2 67-08 M18-75373

ANODIZING

SEE ALSO BRIGHT ANODIZING
CHROMIC ACID ANODIZING
COLOR ANODIZING
HARD ANODIZING
SULFURIC ACID ANODIZING

CONTINUOUS ANODIZING AND LACQUERING LINES FOR ALUMINUM STRIPS 67-01 M12-57461
SECRET IN ANODIC OXIDIZING AND BLACKING 67-01 M12-58005
ANODIZING AS A TECHNIQUE FOR STUDYING DIFFUSION IN THE TICB SYSTEM 67-01 M14-57432
MODERN PRACTICES FOR FINISHING ALUMINUM--CLEANING AND BRIGHTENING 67-02 M12-59464
MODERN DEVELOPMENTS AND TRENDS IN ELECTROPLATING 67-02 M12-59970
EFFECTS OF NEUTRON IRRADIATION AND VACUUM ANNEALING ON OXIDE FILMS ON ZIRCONIUM 67-02 M16-59025
LITERATURE REVIEW OF THE CORROSION AND CORROSION PROTECTION OF AL AND AL ALLOYS 67-02 M18-60033
ARCHITECTURAL ANODIZING 67-03 M12-65697
MODERN PRACTICES FOR FINISHING ALUMINUM--ANODIZING AND SEALING 67-03 M12-65976
HOW AUTO ENGINEERS ARE ATTACKING THE CORROSION PROBLEM 67-03 M18-65209
COATINGS AND FINISHES 67-04 M12-67538
CONTINUOUSLY ANODIZED ALUMINUM COIL 67-04 M12-67718
ANODIZING OF ROLLED AND EXTRUDED AL AND AL ALLOY SEMIFINISHED PRODUCTS 67-04 M12-67727
MECHANISM OF ANODIC COATING FORMATION ON ALUMINUM 67-04 M12-67789
AEROSOL CANS MADE OF AL--THEIR CORROSION AND INTERNAL PROTECTIVE COATING 67-04 M18-68124
METALLURGICAL ABSTRACTS ON LIGHT METALS AND ALLOYS. V 2 67-05 M01-68899
ANODIC OXIDATION OF ALUMINUM 67-05 M12-68714
STATISTICAL ANALYSIS OF THE FORMATION AND DISSOLUTION OF ANODIC OXIDE FILMS ON AL 67-05 M12-68894
THE ANODIC OXIDATION OF ALLOYS 67-05 M18-68619
DIELECTRIC BREAKDOWN OF ANODIC OXIDE FILMS ON VALVE METALS 67-05 M18-69843
EFFECT OF SURFACE VIBRATION ON ANODIZING CURRENT DENSITY 67-06 M12-70846
INFLUENCE OF THE PHYSICAL STATE OF THE CONSTITUENTS OF THE METAL ON THE QUALITY OF ANODIZED COATINGS 67-06 M12-72195
RECENT WORK ON STANDARDIZATION IN THE FIELD OF SURFACE TREATMENTS AND PARTICULARLY IN ALUMINUM ANODIZING 67-06 M19-71712
ANODIC BEHAVIOR IN ELECTROPHORETIC COATING OF ALUMINUM ALLOYS 67-07 M12-73625
ANODIZING TITANIUM 67-07 M12-73628
CHEMICAL BRIGHTENING AND ELECTROBRIGHTENING 67-08 M12-74855
ANODIZING 67-08 M12-74856
ELECTROPLATING 67-08 M12-74857
THE EFFECT OF THIN ANODIC OXIDE FILMS ON THE FATIGUE BEHAVIOR OF AN ALUMINUM ALLOY 67-08 M12-75141
PLATING PROGRESS 67-09 M12-76425
ELECTROKINETIC BEHAVIOR OF ANODIC OXIDE COATING OF ALUMINUM. PT. 1. ZETA POTENTIAL AND DYEING AFFINITY OF ANODIC OXIDE COATING OF ALUMINUM 67-09 M12-76681
THE APCF PROCESS FOR ZINC ANODIZING 67-09 M12-77662
THE ANODIC DEPOSITION OF IRON OXIDE FILMS ON IRON 67-09 M12-77887
THE ANODIC DEPOSITION OF IRON OXIDE FILMS ON PLATINUM 67-09 M12-77888
NICKEL PLATING URANIUM--REVIEW OF LABORATORY STUDIES 67-09 M12-78057
THE ANODIC OXIDATION OF BE 67-10 M12-79073
THE ANODIC OXIDATION OF ALUMINUM IN THE PRESENCE OF A HYDRATED OXIDE 67-10 M15-79967
HARD ANODIC OXIDE FILMS ON ALUMINUM WITH IMPROVED ELECTROINSULATION PROPERTIES 67-11 M12-81291
SORPTION AND PROTECTIVE PROPERTIES OF ANODIC OXIDE FILMS ON ALUMINUM AFTER FILLING THEM WITH WATER 67-11 M14-81290
A NEW METHOD FOR SURFACE TREATMENT OF TI AND TI ALLOYS 67-12 M12-83257
THE ANODIZATION OF ALUMINUM AND NORMALIZATION 67-12 M12-83582
A METALLOGRAPHIC TECHNIQUE FOR LANTHANUM AND CERIUM 67-12 M13-82981
INFLUENCE OF SURFACE CONDITION ON THE MECHANICAL PROPERTIES OF POLYCRYSTALLINE NIOBIUM 67-12 M17-83201

ANODIZING, AUTOMATION

THE ECONOMICS OF HIGH QUALITY ANODIZING 67-09 M12-77387

ANOLYTES

CONTRIBUTION TO THE ELECTROLYTIC PRECIPITATION OF MANGANESE 67-07 M03-73225

ANTENNAS, WELDING

ELECTRON BEAM WELDING 67-03 M11-65023

ANTHRACITE

INDUSTRIAL TESTS ON THE USE OF LISTVYANSK ANTHRACITE TO LINE HEARTHS OF ALUMINUM ELECTROLYZERS 67-06 M03-71353

ANTHRACITE, PHYSICAL PROPERTIES

EXPERIMENTAL STUDY OF PRESSURE DROP ACROSS FIXED BEDS OF ANTHRACITE BRIQUETS AND BLAST FURNACE INTERIOR, BUREAU OF MINES, WASHINGTON, D.C. MATERIALS 67-07 M04-74113

ANTIAIRCRAFT GUNS

SEE GUNS

ANTIDOMAINS

SEE DOMAINS

ANTIFERROELECTRICITY

SEE FERROELECTRICITY

ANTIFERROMAGNETISM

ANTIFERROMAGNETIC TO WEAK FERROMAGNETIC TRANSITION AND THE TEMPERATURE DEPENDENCE OF THE TRANSVERSE SUSCEPTIBILITY IN HEMATITE BELOW THE MORIN TRANSITION 67-01 M15-57447
ON THE MAGNETIC STRUCTURE OF SOME ALLOYS OF TRANSITION METALS 67-01 M15-57576
MAGNETIC PROPERTIES OF RARE EARTH-MANGANESE COMPOUNDS 67-01 M15-58662
MAGNETOELASTIC PROPERTIES OF THE ANTIFERROMAGNETIC COMPOUND MNAU2 67-02 M15-61923
THE MAGNETIC STRUCTURE OF FE2AS 67-03 M15-65637
MAGNETIC PROPERTIES OF ZNMN2S4, ZNMN2SE4 AND ZNMN2TE4 67-03 M15-65648
FIRST ORDER TRANSITION BETWEEN ENTIFERROMAGNETIC AND SINUSOIDAL STRUCTURE OF DILUTE FE-CR ALLOY 67-04 M15-67367
ANTIFERRO-FERROMAGNETIC TRANSITION IN FE --PTPD--3 ALLOYS 67-04 M15-67662
THE ANTIFERROMAGNETISM IN THE UNORDERED ALLOY NI3MN 67-05 M15-68855
MAGNON CONTRIBUTION TO THE LOW-TEMPERATURE SPECIFIC HEAT OF UO2 67-05 M15-69768
PRESSURE DEPENDENCE OF THE MORIN TRANSITION IN THE

WEAK FERROMAGNET ALPHA-FE2O3 67-06 M15-71795
TEMPERATURE AND MAGNETIC-FIELD DEPENDENCE OF THE ANTIFERROMAGNETISM IN PURE CHROMIUM 67-06 M15-71797
MAGNETIC PROPERTIES OF FE65 --NI1-XMNX--35 TERNARY ALLOYS 67-07 M15-72407
NEUTRON-DIFFRACTION STUDY OF CR AND CR ALLOYS 67-07 M15-73542
INVESTIGATION OF THE FIRST-ORDER MAGNETIC TRANSFORMATION IN MN3PT 67-07 M15-73550
CHANGE OF MAGNETIC PROPERTIES OF DILUTE GOLD-CHROMIUM ALLOYS BY SUBSTITUTIONS OF TIN, ALUMINUM, AND COPPER FOR GOLD 67-07 M15-73560
INVESTIGATION OF THE MAGNETIC PROPERTIES OF NEODYMIUM MONOCHALCOGENIDES AT 4.2-150 K 67-07 M15-73704
EFFECT OF PRESSURE ON MAGNETIC TRANSFORMATIONS IN MANGANESE ARSENIDE 67-07 M15-73706
EXCHANGE ANISOTROPY IN THE MIXED PHASE OF GAMMA-FE2O3 AND ALPHA-FE2O3 67-08 M15-74607
MAGNETIC RESONANCE IN SINGLE-CRYSTAL TERBIUM METAL AT 100 GHZ 67-08 M15-75926
WEAK FERROMAGNETISM IN ANTIFERROMAGNETIC UO2 67-08 M15-75931
NUCLEAR MAGNETIC RELAXATION IN ANTIFERROMAGNETIC ALPHA-MN METAL NEAR THE NEEL TEMPERATURE 67-08 M16-75054
MAGNETIC STRUCTURE OF DYAG 67-09 M15-76660
ORDER-DISORDER OF NONSTOICHIOMETRIC BINARY ALLOYS AND ISING ANTIFERROMAGNETS IN MAGNETIC FIELDS 67-11 M14-80660
MAGNETIC BREAKDOWN, FERMI SURFACE, AND GALVANOMAGNETIC PROPERTIES IN ANTIFERROMAGNETIC METALS 67-11 M15-80658
ELECTRICAL RESISTIVITY STUDIES OF CHROMIUM RICH CHROMIUM-GERMANIUM ALLOYS BETWEEN 4 AND 320 K 67-11 M15-81675
ANTIFERROMAGNETISM OF GAMMA-FEMN ALLOYS. PT. 2. NEUTRON DIFFRACTION AND MOSSBAUER EFFECT STUDIES 67-12 M15-81762
ANTIFERROMAGNETISM OF GAMMA-FEMN ALLOYS. PT. 3. SPECIFIC HEAT AND THERMOELECTRIC POWER STUDIES 67-12 M15-81763
MAGNETIC PROPERTIES OF ANOMALOUS NICKEL THIN FILMS 67-12 M15-81765
NEUTRON-DIFFRACTION STUDY OF ANTIFERROMAGNETISM IN USB2 AND UBI2 67-12 M15-82006
MAGNETIC SUSCEPTIBILITY OF FACE-CENTERED CUBIC IRON-RHENIUM ALLOYS 67-12 M15-82013
EXCHANGE ANISOTROPY IN OXIDIZED PERMALLOY THIN FILMS AT LOW TEMPERATURES 67-12 M15-82371
ITINERANT ANTIFERROMAGNETISM IN CHROMIUM ALLOYS 67-12 M15-82905
STRUCTURAL AND MAGNETIC STUDY OF ARSENIDES M2AS 67-12 M15-83220
THE MAGNETIC AND ELECTRICAL PROPETIES OF IRON-GADOLINIUM FILMS 67-12 M15-83306
THE MAGNETIC AND CRYSTALLOGRAPHIC PROPERTIES OF MNBI STUDIED BY NEUTRON DIFFRACTION 67-12 M15-83489

ANTIFERROMAGNETISM, ALLOYING EFFECTS
ANTIFERROMAGNETISM IN CHROMIUM ALLOYS. PT. 1. NEUTRON DIFFRACTION 67-02 M15-60760
ANTIFERROMAGNETISM IN DILUTE CR-FE ALLOYS 67-08 M15-76172
EXCHANGE ANISOTROPY OF FE65--NI1-XMNX--35 ALLOYS 67-12 M15-81764

ANTIFERROMAGNETISM, PRESSURE EFFECTS
EFFECT OF HYDROSTATIC PRESSURE ON THE MAGNETIC TRANSITION TEMPERATURES OF DY 67-04 M15-67479
EFFECT OF PRESSURE ON MAGNETIC TRANSFORMATIONS IN MANGANESE ARSENIDE 67-06 M15-71829
PRESSURE DEPENDENCE OF THE MAGNETIC TRANSITIONS IN DYSPROSIUM AND ERBIUM 67-11 M15-80659

ANTIFERROMAGNETISM, TEMPERATURE EFFECTS
MAGNETIC PROPERTIES OF FE-MODIFIED MN3B4 67-02 M15-59469
MAGNETIC STRUCTURE OF THE RARE EARTH METALS 67-12 M15-82644

ANTIFOULING COATINGS, CORROSION
SHIPBOTTOM COATING TESTS--SIMULATED SERVICE TESTS EVALUATE PERFORMANCE 67-04 M18-66316

ANTIFRICTION BEARINGS
SEE ALSO BALL BEARINGS
ROLLER BEARINGS
TAPER ROLLER BEARINGS
PRECISION STAMPING OF DRY FRICTION SLEEVE BEARINGS 67-01 M08-57247
THE SEALING OF ANTIFRICTION BEARINGS 67-01 M20-58008
METAL-PLASTIC ANTIFRICTION MATERIALS FOR MANUFACTURING OF SALT-TYPE BEARINGS FOR LUBRICANT-FREE FRICTION 67-07 M09-72504

ANTIFRICTION BEARINGS, MATERIALS
ANTIFRICTION PROPERTIES OF IRON-BASE POWDERED-METAL MATERIALS 67-01 M09-57668

ANTIFRICTION BEARINGS, MECHANICAL PROPERTIES
ANTIFRICTION PROPERTIES OF IRON-BASE SINTERED MATERIALS AT DRY FRICTION 67-02 M09-60977

ANTIFRICTION BEARINGS, POWDER METALLURGY
INVESTIGATION OF THE EFFECT OF THE SIZING ALLOWANCE ON THE SURFACE QUALITY OF FERROGRAPHITE BUSHINGS 67-06 M19-70965

ANTIFRICTION BEARINGS, WEAR
ANTIFRICTION PROPERTIES OF BORON NITRIDE DURING DRY FRICTION IN A GASEOUS MEDIUM AND AT LOW TEMPERATURES 67-02 M09-61708

ANTIMONIDES, TRANSPORT PROPERTIES
ANNEALING EFFECTS OF LI-SATURATED P-TYPE INSB 67-06 M16-71551

ANTIMONY
IMPROVED CRYSTALLIZATION OF PURE ANTIMONY 67-09 M14-76805

ANTIMONY, ACOUSTIC PROPERTIES
MAGNETO-ACOUSTIC RESONANCES IN ANTIMONY 67-04 M16-66797

ANTIMONY, ALLOYING ADDITIVE
MARTENSITE IN TERNARY CU-ZN-BASED BETA-PHASE ALLOYS 67-03 M14-65079
SUBSTRUCTURES OF SB-DOPED TE CRYSTALS 67-04 M13-67242
MECHANICAL PROPERTIES, STRUCTURE AND INOCULATION TREATMENT OF ANTIMONY-BEARING CAST IRON 67-07 M17-73261
COMBINED ACTION OF SURFACE-ACTIVE AGENTS ON THE NUMBER OF GRAPHITIZATION NUCLEI IN CUPOLA MELTED MALLEABLE IRON 67-08 M14-74546
MICROHARDNESS AND ITS ANISOTROPY IN SINGLE CRYSTALS OF GERMANIUM ALLOYED WITH VARIOUS ADDITIVES 67-08 M17-75445
THERMODYNAMIC PROPERTIES AND SECOND-ORDER PHASE TRANSITION OF LIQUID CD-SB ALLOYS 67-11 M14-81336
THE SOLUBILITY OF LEAD IN LIQUID ALUMINUM ALLOYS AT DIFFERENT TEMPERATURES 67-11 M14-81636
EFFECT OF CASTING WALL THICKNESS ON THE STRUCTURE OF ANTIMONOUS CAST IRONS 67-12 M06-82622
X-RAY STUDY OF COLD WORKED SILVER-ANTIMONY ALLOYS EFFECTS DUE TO EXTRINSIC STACKING FAULTS 67-12 M13-82586
EFFECT OF SB, BI AND B ON THE PROPERTIES OF MALLEABLE CAST IRON 67-12 M17-81987
INFLUENCE OF ANTIMONY ON THE CORROSION RESISTANCE OF GREY IRONS 67-12 M18-81885

ANTIMONY, BAND THEORY
SOFT X-RAY ABSORPTION SPECTRA OF METALS AND ALLOYS. PT. 1. BE, AL, SB, BI AND AL-MG ALLOYS 67-04 M16-67473

ANTIMONY, BINARY SYSTEMS
AUGMENTED NATURAL CONVECTION AND EQUIAXED GRAIN STRUCTURE IN CASTING 67-01 M06-57427
INVESTIGATION OF THE BI2S3-SB2TE3 SYSTEM 67-04 M13-66011
PRACTICE OF THERMODYNAMIC ANALYSIS OF BINARY SYSTEMS OF METALS WITH INTERMETALLIC BONDS 67-04 M13-67451
SELF-DIFFUSION OF ANTIMONY IN SB-SN AND SB-PB LIQUID ALLOYS 67-04 M14-67389
STUDY OF THE ELECTROCONDUCTIVITY AND VISCOSITY OF MELTS IN THE BI-SE, BI-TE AND SB-TE SYSTEMS 67-04 M15-66867
THE PHASE EQUILIBRIA AND CRYSTAL CHEMISTRY OF THE INTERMEDIATE PHASES IN THE YTTERBIUM-ANTIMONY SYSTEM 67-05 M14-68766
TRANSFORMATIONS OF INTERMETALLIC PHASES OF THE ANTIMONY-ZINC SYSTEMS 67-05 M14-69133
INVESTIGATION OF ELECTRIC TRANSPORT AND DIFFUSION IN INDIUM-ANTIMONY SYSTEMS 67-05 M15-69260
SELF-DIFFUSION IN MOLTEN ALLOYS OF SN-SB, SN-PB AND SN-ZN 67-06 M14-70904
PHASE RELATIONS AND THERMOELECTRIC PROPERTIES OF THE ALLOY SYSTEMS, SNTE-BI2TE3 AND PBTE-SB2TE3 67-07 M14-73462
SUPERCONDUCTING TRANSITION TEMPERATURE AND ELECTRONIC STRUCTURE IN THE PSEUDOBINARIES NB3AL-NB3SN AND NB3SN-NB3SB 67-07 M16-73640

ANTIMONY

RARE-EARTH-SB AND -BI COMPOUNDS WITH THE GD4BI3 --ANTI-TH3P4-- STRUCTURE 67-08 M13-75291
THE ALPHA-GAMMA EQUILIBRIUM IN FE-MN, FE-MO, FE-NI, FE-SB, FE-SN AND FE-W SYSTEMS 67-08 M13-75813
PHASE DIAGRAM AND PROPERTIES OF ALLOYS IN THE TI2TE3-SB2TE3 SYSTEM 67-09 M13-76848
INVESTIGATION OF THE BI2S3-SB2SE3 SYSTEM 67-09 M13-76850
CONDITIONS FOR CRYSTALLIZATION OF INTERMEDIATE PHASES IN THE CD-SB SYSTEM 67-09 M14-76846
HEAT OF MIXING OF ANTIMONY WITH B-METALS. PT. 3. THE SYSTEM WITH TIN AND LEAD 67-10 M15-78741
THERMAL DIFFUSIVITY AND ELECTRICAL CONDUCTIVITY OF ALLOYS OF THE COPPER-ANTIMONY SYSTEM IN THE LIQUID STATE 67-11 M15-80654
CONSTITUTION DIAGRAM OF THE NIOBIUM-ANTIMONY SYSTEM 67-12 M13-82167
ON THE BISMUTH-ANTIMONY SYSTEM 67-12 M13-83321
STUDY OF THE SB2SE3-BI2FE3, SB2TE3-BI2SE3 SYSTEMS 67-12 M13-83323

ANTIMONY, CHEMICAL ANALYSIS
DETERMINATION OF ARSENIC IN SB-FE MATRICES BY ACTIVATION ANALYSIS 67-05 M19-68812

ANTIMONY, COATING
ELECTRODEPOSITION OF SOME METALS FROM TETRAMETHYLUREA 67-03 M12-65809

ANTIMONY, COATINGS,
CORROSION OF ELECTROPRECIPITATED ANTIMONY AND SOME OTHER ANODE MATERIALS IN SULFIDE-ALKALI ELECTROLYTE 67-11 M18-81295

ANTIMONY, CORROSION
THE EXAMINATION OF CORROSION PRODUCTS AND PROCESSES. PT. 2. POTENTIOSTATS 67-09 M18-76634

ANTIMONY, CRYSTAL GROWTH
IMPURITY DISTRIBUTION IN SINGLE CRYSTALS. PT. 3. IMPURITY HETEROGENEITIES IN SINGLE CRYSTALS ROTATED DURING PULLING FROM THE MELT 67-09 M14-77896

ANTIMONY, CRYSTAL LATTICES
NATURE AND MECHANISM OF DEFECT FORMATION IN ANTIMONY AND BISMUTH CRYSTALS 67-08 M13-75271
THE AXIAL ORIENTATION OF NORMAL STRESSES IN ZN AND SB SINGLE CRYSTALS 67-08 M17-75902
INITIAL STAGE OF THE DEVELOPMENT OF TWINNING IN METAL CRYSTALS 67-10 M13-78384
LOW-ENERGY ELECTRON DIFFRACTION STUDY OF SURFACES OF ANTIMONY AND BISMUTH 67-10 M13-79547
MULTIPLICATION OF DISLOCATIONS IN ANTIMONY AND BISMUTH 67-11 M13-80733

ANTIMONY, DIFFUSION
STRUCTURE OF THE DIFFUSION LAYER OF A CARBON-ANTIMONY TREATED STEEL 67-02 M14-60073
SOLID STATE DIFFUSION OF ANTIMONY IN GERMANIUM, FROM THE VAPOR PHASE, IN A VACUUM FURNACE 67-03 M14-65768
INVESTIGATION OF THE DIFFUSION OF ANTIMONY AND INDIUM IN GERMANIUM, INCLUDING EFFECT OF INTERNAL ELECTRIC FIELD 67-06 M14-70869
DIFFUSION OF ANTIMONY IN EPITAXIAL GERMANIUM LAYERS 67-06 M14-71760
INVESTIGATION OF THE DIFFUSION OF ANTIMONY AND INDIUM IN GERMANIUM WITH ACCOUNT OF THE INTERNAL ELECTRIC FIELD 67-06 M14-71832
DIFFUSION OF ANTIMONY IN EPITAXIAL LAYERS OF GERMANIUM 67-06 M14-71921
SOLUTE DIFFUSION IN PLASTICALLY DEFORMED SILICON CRYSTALS 67-07 M14-72885
EXPERIMENTAL STUDY ON THE OUT-DIFFUSION OF SB FROM GE AND ITS APPLICATION TO TRANSISTORS 67-08 M16-74606
REACTIVE DIFFUSION OF ANTIMONY AND ZINC WITH ELEMENTS OF THE SIXTH GROUP AND ENERGY OF THE CHEMICAL BOND 67-11 M14-80164

ANTIMONY, ELECTRICAL PROPERTIES
GALVANOMAGNETIC PROPERTIES OF SINGLE-CRYSTAL ANTIMONY BETWEEN 77 AND 273 K 67-07 M16-74060
ELASTORESISTANCE EFFECTS IN EVAPORATED-ANTIMONY FILMS 67-08 M15-74611

ANTIMONY, EXTRACTION
PRODUCTION OF METALS OR ALLOYS FROM ASH, SCALE AND FROM THE LIGHT FRACTION OF FUSIBLE ALLOYS 67-02 M03-59573
VOLATILIZING ROASTING OF LEAN OXIDIZED-SULFIDE ANTIMONY ORE BY AN AIR SUCTION METHOD 67-02 M03-59843
SEPARATION OF ANTIMONY AND ARSENIC IN THE PRODUCTION OF METALLIC ANTIMONY AND ITS COMPOUNDS 67-02 M03-59844
COMPARATIVE EVALUATION OF COLLECTORS FOR ANTIMONY FLOTATION 67-06 M02-70188
REDUCTION OF ANTIMONY FROM SULFIDE-ALKALI SOLUTION WITH COPPER 67-07 M03-73417

ANTIMONY, FERMI SURFACE
DE HAAS-VAN ALPHEN EFFECT IN ANTIMONY AT VERY LOW TEMPERATURES 67-05 M16-69029

ANTIMONY, IMPURITIES
DISTRIBUTION OF ANTIMONY IN SINGLE CRYSTALS OF GERMANIUM GROWN IN ASYMMETRICAL THERMAL FIELDS 67-02 M13-61724
EFFECT OF METAL IMPURITIES ON MECHANICAL PROPERTIES OF NICKEL IN TENSION 67-02 M17-62235

ANTIMONY, INTERMETALLICS
OSCILLATORY MAGNETOSTRICTION IN N-GALLIUM ANTIMONIDE 67-01 M16-58579
THICKNESS OF CS-SB FILMS RELATIVE TO THE ORGINAL SB FILMS 67-01 M19-57112
EFFECT OF ALLOYING ON THE STABILITY OF THE STRUCTURE OF THE COMPOUND CD3SB2 IN ALLOYS IN THE CD-SB SYSTEM 67-02 M14-58982
ELECTRICAL PROPERTIES OF GASB-GA2TE3 AND GASB-GATE SOLID SOLUTIONS 67-02 M15-61521
NUCLEAR MAGNETIC RESONANCE OF CUBIC FERROMAGNETIC COMPOUNDS CO2MNSN AND COMNSB 67-02 M16-59472
INFLUENCE OF THE LEG SIZE AND MECHANICAL SURFACE TREATMENT ON THE THERMOELECTRIC PROPERTIES OF THERMOCOUPLES OF SB2TE3/BI2TE3 AND BI2TE3/BI2SE3 67-02 M16-60126
THE INFLUENCE OF EXCESS NONSTOICHIOMETRIC BI ON THE THERMAL CONDUCTIVITY OF CRYSTAL LATTICES OF BI2TE3, BI2TE3-SB2-TE3 AND BI2TE3-BI2S3 WITH IODINE ADDITIONS 67-03 M15-65383
HIGH FREQUENCY PROPERTIES OF INSB UNDER A MAGNETIC FIELD 67-04 M16-67425
THE CRYSTAL STRUCTURE OF MO3SB7 .67-05 M13-69227
THE THERMAL CONDUCTIVITY OF GAP AND ALSB 67-07 M15-72750
ELECTRIC AND THERMOELECTRIC EFFECTS IN A SOLID SOLUTION OF ZNXCD1-XSB 67-09 M15-76737
EFFECT OF PRESSURE ON THE CURIE TEMPERATURE OF CRTE AND MNSB COMPOUNDS OF NICKEL ARSENIDE TYPE 67-10 M15-78717
A THERMODYNAMIC INVESTIGATION OF THE COMPOUNDS, IN3SBTE2, INSB, AND INTE 67-11 M15-81348

ANTIMONY, MAGNETIC PROPERTIES
MAGNETOACOUSTIC ATTENUATION OF CIRCULARLY POLARIZED ULTRASOUND IN SN, AL, AND SB 67-02 M15-60767
SPIN DETERMINATIONS OF NEUTRON RESONANCES IN SB, TA, RE, AND IR, USING IRON-ALLOY TARGETS 67-07 M15-72931

ANTIMONY, MECHANICAL PROPERTIES
PROPAGATION OF ELASTIC TWINS IN METALS 67-04 M13-67926

ANTIMONY, PHYSICAL PROPERTIES
THERMAL RELAXATION OF MECHANICAL VIBRATIONS IN POLYCRYSTALS 67-04 M15-67824
INTERNAL FRICTION AND YOUNGS MODULUS IN ANTIMONY AND BISMUTH 67-04 M15-67830
GIANT QUANTUM OSCILLATIONS OF THE ABSORPTION COEFFICIENT OF ULTRASOUND IN ANTIMONY 67-06 M16-71766

ANTIMONY, QUATERNARY SYSTEMS
STUDY OF THE QUATERNARY SYSTEM IN-SB-CD-SN TO DETERMINE THE PHASE EQUILIBRIA IN THE SECTION OF INSB --CDSNSB2-- 67-06 M13-71119

ANTIMONY, REFINING
PREPARATION OF PURE ANTIMONY FROM CZECHOSLOVAKIAN RAW MATERIAL CONTAINING COPPER 67-02 M03-58864
METHOD OF PURIFICATION OF ANTIMONY FROM IRON 67-02 M03-60896
IMPROVING CURRENT EFFICIENCY DURING ELECTROWINNING OF ANTIMONY FROM THE SULFIDE-ALKALINE SOLUTIONS 67-10 M03-79135
VACUUM DISTILLATION OF ANTIMONY METAL 67-12 M03-82900

ANTIMONY, SINGLE CRYSTALS
DISLOCATIONS IN ANTIMONY CRYSTALS. PT. 1. DETECTION OF DISLOCATIONS BY ETCHING --111-- PLANES IN A NEW ETCHANT 67-02 M13-61893

ANTIMONY, SOLDERING
DEVELOPING NEW FLUXES FOR SOFT SOLDERING AND THE RESULTANT DIFFICULTIES 67-11 M11-81027

ANTIMONY, SOLUBILITY
THE SOLUBILITY OF IMPURITIES IN IN2TE3 67-04 M14-66028
THE SOLID SOLUBILITY OF TIN-ANTIMONY ALLOYS, AND ITS MICROHETEROGENIZATION 67-09 M14-76965
ANTIMONY, SUPERCONDUCTIVITY
ULTRASONIC STUDIES OF THE SUPERCONDUCTIVITY OF DOPED TIN 67-02 M16-60530
ANTIMONY, TERNARY SYSTEMS
INVESTIGATION OF PHASE EQUILIBRIA IN ALUMINUM-RICH ALLOYS OF THE GE-AL-SB SYSTEM 67-01 M14-57653
THE TERNARY SYSTEM INDIUM TELLURIDE-INDIUM ANTIMONIDE-ANTIMONY 67-02 M14-61594
STUDY OF THE ALSB-GASB-INSB SYSTEM 67-04 M13-68050
CONSTITUTIONAL SUPERCOOLING IN TIN-BASE TERNARY ALLOYS 67-07 M13-72818
THE PHASE AB2 IN THE TERNARY SYSTEMS LA-SB-TE AND LA-SN-SB 67-10 M14-78479
THERMODYNAMIC PROPERTIES OF INDIUM-TIN-ANTIMONY LIQUID ALLOYS 67-10 M15-78747
ANTIMONY, THERMAL PROPERTIES
LATTICE THERMAL CONDUCTIVITY OF ANTIMONY DOWN TO 0.4 K 67-02 M15-60256
INVESTIGATION OF THE HEAT CONDUCTIVITY OF CERTAIN METALS ON TRANSITION FROM THE SOLID TO THE LIQUID STATE 67-05 M15-69394
THE HEAT OF MIXING OF SB WITH B-METALS. PT. 2. THE IN-TL SYSTEM 67-06 M15-71599
ANTIMONY, THERMODYNAMICS
LOW-TEMPERATURE SPECIFIC HEAT OF ANTIMONY 67-08 M15-74665
LOW-TEMPERATURE SPECIFIC HEAT OF ARSENIC AND ANTIMONY 67-09 M15-77165
ANTIMONY, THIN FILMS
THICKNESS OF CS-SB FILMS RELATIVE TO THE ORGINAL SB FILMS 67-01 M19-57112
STRUCTURE OF ANTIMONY SPHERULITES CRYSTALLIZED FROM AN AMORPHOUS FILM P 147-150 67-02 M13-61938
ANTIMONY, TRANSPORT PROPERTIES
MEASURING METHODS FOR MASS TRANSPORT 67-12 M16-82050
ANTIMONY BASE ALLOYS, CASTING
A FUNDAMENTAL STUDY ON THE CASTING CRACK OF LIGHT METAL ALLOYS. RELATION BETWEEN THE CASTING CONTRACTION STRESS AND THE HOT STRENGTH 67-05 M17-68898
ANTIMONY BASE ALLOYS, CORROSION
INFLUENCE OF ACIDITY ON CORROSION OF AL-SB ALLOYS 67-05 M18-69832
INFLUENCE OF PH ON THE CORROSION BEHAVIOR OF ALUMINUM-ANTIMONY ALLOYS 67-12 M18-82266
ANTIMONY BASE ALLOYS, MAGNETIC PROPERTIES
THE EFFECT OF PRESSURE ON THE CURIE TEMPERATURE AND RESISTIVITY OF SOME RARE-EARTH METALS AND HEUSLER ALLOYS 67-06 M15-71282
SOME CHARACTERISTICS OF THE GALVANOMAGNETIC PROPERTIES OF SB-BI ALLOYS 67-09 M15-77782
THE TILT ANGLE OF THE FERMI ELLIPSOIDS IN ANTIMONY-TIN ALLOYS 67-11 M16-80779
ANTIMONY BASE ALLOYS, PHASE TRANSFORMATIONS
INVESTIGATION OF THE REGULARITIES OF CRYSTALLIZATION AND STABILIZATION OF THE STRUCTURE IN THE CDSB AND CD3SB2 COMPOUNDS IN ALLOYS OF THE CD-SB SYSTEM 67-01 M14-57694
ANTIMONY BASE ALLOYS, PHASES /STATE OF MATTER/
X-RAY AND THERMOGRAPHIC INVESTIGATION OF ALLOYS IN THE SB2TE3-SB2SE3 SYSTEM 67-01 M13-58147
ANTIMONY BASE ALLOYS, THERMAL PROPERTIES
THERMODYNAMIC PROPERTIES OF LIQUID ALLOYS OF THE ZINC-ANTIMONY SYSTEM 67-02 M15-61543
ANTIMONY COMPOUNDS, ACOUSTIC PROPERTIES
MAGNETO-ACOUSTIC EFFECTS IN N-INSB AT 9 GHZ 67-04 M16-66798
ANTIMONY COMPOUNDS, BENEFICIATION
EXTRACTION OF NOBLE METALS FROM ANTIMONY CONCENTRATES 67-02 M03-59586
INDUSTRIAL TESTING OF DZHIZHIKRUT ORE BENEFICIATION SYSTEM 67-06 M02-70187
COMPARATIVE EVALUATION OF COLLECTORS FOR ANTIMONY FLOTATION 67-06 M02-70188
AUTOMATIC SEPARATION OF COMPOSITE MERCURY-ANTIMONY ORES 67-11 M02-81323
THE EFFECT OF OXIDATION ON THE FLOTATION OF ANTIMONITE AND CINNABAR 67-12 M02-83368
ANTIMONY COMPOUNDS, BINARY SYSTEMS
X-RAY INVESTIGATION OF THE SB2S3-BI2TE3 SYSTEM 67-01 M13-58148
THE BINARY EUTECTICS GASB-GAV3SB5 AND GASB-V2GA5 67-05 M13-68277
THE QUASI-BINARY SECTIONS SB2TE3-IN2TE3, BI2TE3-IN2TE3 AND SB2SE3-IN2SE3 67-11 M14-80381
ANTIMONY COMPOUNDS, CRYSTAL GROWTH
DETERMINATION OF MICROSCOPIC RATES OF GROWTH IN SINGLE CRYSTALS 67-06 M14-72181
GROWTH MECHANISMS AND CRYSTALLINE QUALITY OF DIAMOND TYPE COMPOUNDS AND CRYSTALS IN THE 3-5 AND 2-6 GROUPS 67-07 M14-73926
ANTIMONY COMPOUNDS, CRYSTAL LATTICES
INSB AND INAS LATTICE CHANGE DURING ZINC DIFFUSION 67-09 M14-77456
DISTRIBUTION AND DENSITY OF DISLOCATIONS IN BENT AND ANNEALED GALLIUM ARSENIDE AND INDIUM ANTIMONIDE CRYSTALS 67-10 M13-79246
X-RAY MEASUREMENTS OF STACKING FAULTS IN SILVER-ANTIMONY ALLOYS 67-11 M13-80490
THE CRYSTAL CHEMISTRY OF SELECTED AB2 RARE EARTH COMPOUNDS WITH SELENIUM, TELLURIUM, AND ANTIMONY 67-12 M13-81736
ANTIMONY COMPOUNDS, DIFFUSION
THE BEHAVIOR OF IMPURITIES IN LEAD SELENIDE SINGLE CRYSTALS 67-06 M14-71372
DIFFUSION AND SOLUBILITY IN GALLIUM ANTIMONIDE 67-11 M14-80626
ANTIMONY COMPOUNDS, ELECTRICAL PROPERTIES
ELECTRICAL PROPERTIES OF SOME LIQUID SEMICONDUCTORS 67-02 M16-60810
SUPERCONDUCTING TRANSITION TEMPERATURES AND LATTICE CONSTANTS FOR THE PSEUDOBINARY SYSTEM NB3AL-NB3SB 67-02 M16-61570
THE EFFECT OF THE SURFACE ON THE ELECTRICAL CONDUCTIVITY OF THIN INSB LAYERS 67-06 M16-69959
THE THERMAL PRODUCTION OF ACCEPTORS IN INSB 67-06 M16-69960
FREEZE-OUT EFFECTS, HOT ELECTRON EFFECTS, AND SUBMILLIMETER PHOTOCONDUCTIVITY IN INSB 67-07 M16-74206
MAGNETORESISTANCE 67-07 M16-74207
ELECTRICAL RESISTIVITY OF INDIUM-ANTIMONY ALLOY FILMS PREPARED BY VACUUM EVAPORATION 67-10 M15-78775
EFFECT OF DONOR IMPURITY CONCENTRATION ON THE PIEZORESISTANCE OF N-TYPE GASB 67-10 M15-79015
THERMOELECTRIC PROPERTIES OF YTTRIUM-GROUP V AND YTTRIUM-GROUP VI BINARY AND TERNARY COMPOUNDS 67-11 M15-80762
ANTIMONY COMPOUNDS, IRRADIATION
PREPARATION OF HOMOGENEOUS N-TYPE INSB BY THERMAL-NEUTRON IRRADIATION 67-09 M16-77450
ANTIMONY COMPOUNDS, MAGNETIC PROPERTIES
FERROMAGNETIC RESONANCE IN EVAPORATED THIN FILM OF MNSB 67-07 M15-73987
THE MAGNETIC SUSCEPTIBILITY OF P-TYPE CDSB 67-07 M16-73463
RESISTANCE OF P-INSB IN A STRONG LONGITUDINAL MAGNETIC FIELD 67-10 M15-79473
NEUTRON-DIFFRACTION STUDY OF ANTIFERROMAGNETISM IN USB2 AND UBI2 67-12 M15-82006
ACOUSTOELECTRIC OSCILLATIONS WITH FIELD-DEPENDENT PERIOD IN INDIUM ANTIMONIDE 67-12 M15-83010
ANTIMONY COMPOUNDS, MICROSTRUCTURE
THE METALLIC ETCHING OF INDIUM ANTIMONIDE AND GERMANIUM 67-09 M13-76631
ANTIMONY COMPOUNDS, OPTICAL PROPERTIES
FAR INFRARED LATTICE BANDS IN INDIUM ANTIMONIDE 67-04 M16-66743
LOCALIZED MODES OF SUBSTITUTIONAL IMPURITIES IN INTERMETALLIC COMPOUNDS 67-04 M16-66744
MAGNETO-OPTICAL STUDY OF HYDROGENIC DONOR IMPURITY STATES IN INSB 67-04 M16-66758
ANTIMONY COMPOUNDS, PHASE TRANSFORMATIONS
NEW PHASE TRANSFORMATION IN INSB AT HIGH PRESSURE AND HIGH TEMPERATURE 67-09 M14-77429
PHASE TRANSFORMATION OF AS2SE3 AND SB2SE3 FILMS 67-12 M14-83269
ANTIMONY COMPOUNDS, PHASES /STATE OF MATTER/
INVESTIGATION OF THE PBTE-SB2TE3 SYSTEM 67-02 M13-58870
STRUCTURE OF SEMICONDUCTING COMPOUNDS OF ARSENIC AND ANTIMONY WITH GROUP-8 ELEMENTS 67-11 M13-80177
THE THERMODYNAMIC PROPERTIES OF SEVERAL SOLID PHASES OF THE COMPOUND, INSB 67-12 M15-82973
ANTIMONY COMPOUNDS, PHOTOELECTRIC EFFECTS

ANTIMONY COMPOUNDS
SELECTIVE INSB PHOTOCELL WITH CONTROLLABLE SPECTRAL CHARACTERISTICS 67-10 M16-79455
ANTIMONY COMPOUNDS, PHYSICAL PROPERTIES
ON THE MIXED MECHANISM OF ELECTRON SCATTERING IN INSB CRYSTALS 67-05 M15-69789
MILLIMETER WAVE RADIATION FROM INDIUM ANTIMONIDE 67-07 M16-73999
ANTIMONY COMPOUNDS, POWDER METALLURGY
DEVELOPMENT TRENDS IN MODERN POWDER METALLURGY 67-01 M09-58717
ANTIMONY COMPOUNDS, RADIATION EFFECTS
FORMATION OF STRUCTURE DEFECTS IN LOW-TEMPERATURE X-IRRADIATION OF INDIUM ANTIMONIDE 67-09 M16-76778
ANTIMONY COMPOUNDS, REACTIONS /CHEMICAL/
A METHOD OF PRODUCING HETEROJUNCTIONS BETWEEN COMPOUND SEMICONDUCTORS BY ALLOYING AND SUBSTITUTION REACTION 67-02 M16-59075
ANTIMONY COMPOUNDS, SEMICONDUCTORS
SCATTERING MECHANISMS IN INDIUM ANTIMONIDE AT LOW TEMPERATURES 67-01 M16-58780
MIXED SCATTERING IN 3-V COMPOUNDS 67-04 M16-66782
RESISTANCE ANOMALY OF INSB AT VERY LOW TEMPERATURES 67-06 M16-72148
THE DRIFTED MAXWELLIAN DISTRIBUTION FUNCTION IN INSB 67-08 M16-75248
THE THERMOELECTRIC EFFICIENCY OF CDSB AND SOLID SOLUTIONS OF ZNXCB1-XSB WITH HOLE CONDUCTIVITY 67-10 M15-79107
PRODUCTION OF THERMOELECTRIC MATERIALS BASED ON BI2TE3 SOLID SOLUTION OF BI2TE3-SB2TE3 WITH A GIVEN DISTRIBUTION OF IMPURITIES 67-11 M16-81317
ABOUT THE ROLE OF MINORITY CARRIERS IN THE IMPURITY CONDUCTION OF GASB 67-12 M16-82014
ON THE NATURE OF DAMAGES IN INDIUM ANTIMONIDE PRODUCED BY GAMMA- AND X-IRRADIATION 67-12 M16-82019
EFFECTS OF LOW-TEMPERATURE ELECTRON IRRADIATION ON THE ELECTRICAL PROPERTIES OF UNDOPED GASB 67-12 M16-82533
ANTIMONY COMPOUNDS, SINGLE CRYSTALS
HEAT TREATMENT OF INSB CRYSTALS WITH DIFFERENT DISLOCATION DENSITIES 67-11 M15-80237
ANTIMONY COMPOUNDS, SUPERCONDUCTIVITY
SUPERCONDUCTING PROPERTIES OF GERMANIUM TELLURIDE 67-04 M16-66792
SUPERCONDUCTIVITY OF METALLIC ALUMINUM ANTIMONIDE 67-04 M16-68121
ANTIMONY COMPOUNDS, TERNARY SYSTEMS
STUDY OF THE AISB-GASB-INSB SYSTEM 67-08 M14-75080
SLAG-METAL EQUILIBRIA IN THE PB-PBO-SB2O3 SYSTEM 67-12 M13-82565
ANTIMONY COMPOUNDS, THERMAL PROPERTIES
STUDY OF THE THERMODYNAMIC PROPERTIES OF CERTAIN SEMICONDUCTING ALLOYS BY THE ELECTROMOTIVE-FORCE METHOD 67-11 M15-80159
THERMODYNAMIC PROPERTIES OF INDIUM AND GALLIUM ANTIMONIDES AND GALLIUM ARSENIDE 67-11 M15-80160
INVESTIGATION OF THE THERMAL CONDUCTIVITY OF INSB-GASB SOLID SOLUTIONS 67-11 M15-80229
ANTIMONY COMPOUNDS, THERMODYNAMICS
ANALYSIS AND EVALUATION OF MOLECULAR CONSTANTS OF BIATOMIC MOLECULES OF CHALCO-GENIDES OF THE V GROUP 67-05 M16-68956
ANTIMONY COMPOUNDS, THIN FILMS
APPLICATION OF X-RAY METHODS TO THE STUDY OF THE REAL STRUCTURE OF MONOCRYSTALLINE EPITAXIAL LAYERS 67-08 M16-75239
ANTIMONY COMPOUNDS, TRANSPORT PROPERTIES
OSCILLATORY PHOTOCONDUCTIVITY IN INSB 67-01 M15-58756
HIGH-TEMPERATURE HALL EFFECT IN GASB 67-02 M15-61692
CONDUCTION BAND OF GASB 67-02 M15-61693
ELECTRON TRANSPORT AND THERMOELECTRIC PROPERTIES OF N-TYPE BI1.75SB0.25TE3 67-02 M15-61694
GALVANOMAGNETIC EFFECTS AND BAND STRUCTURE OF CDSB 67-04 M16-66765
LOW TEMPERATURE TRANSPORT EFFECTS IN N-TYPE GASB AT HIGH MAGNETIC FIELDS 67-04 M16-66767
NONLINEAR GALVANOMAGNETIC EFFECTS DUE TO HOT ELECTRONS IN N-TYPE INSB IN THE QUANTUM LIMIT 67-04 M16-66772
HIGH FIELD EFFECTS IN N-TYPE INSB 67-04 M16-66774
TRANSPORT PROPERTIES AND LOCALIZED SPINS IN N-TYPE INSB 67-04 M16-66786
GALVANOMAGNETIC EFFECTS IN CADMIUM ANTIMONIDE 67-04 M16-67470
RESISTANCE ANOMALY AND NEGATIVE MAGNETORESISTANCE IN N-TYPE INSB AT VERY LOW TEMPERATURES 67-05 M15-69820
PREPARATION OF HIGH-MOBILITY THIN FILMS OF INDIUM ANTIMONIDE 67-08 M14-75161
RECOMBINATION CENTERS IN INSB 67-08 M15-75119
ELECTROLUMINESCENCE AND CRYSTALLOGRAPHIC POLARITY OF GALLIUM ANTIMONIDE 67-08 M16-74609
MICROWAVE EMISSION FROM N-TYPE INDIUM ANTIMONIDE AT 4.2 AND 77 K 67-09 M16-77010
CONDUCTANCE AND CAPACITANCE OF 6 DEGREE TILT BOUNDARIES IN P-TYPE INSB 67-09 M16-77448
GAAS-INSB GRADED-GAP HETEROJUNCTION 67-09 M16-78062
MICROWAVE FARADAY ROTATION IN SEMICONDUCTOR PLASMAS IN THE HIGH MAGNETIC FIELD LIMIT 67-10 M16-79365
HEATS OF ATOMIZATION AND FORMATION OF A3 B5 COMPOUNDS FROM EXPERIMENTAL DATA ON ELECTRON-DENSITY DISTRIBUTIONS 67-11 M15-80156
THERMOMAGNETIC EFFECTS IN THE SEMICONDUCTING INTERMETALLIDES, ZN4SB3 AND ZN3SB2, AND THE CHARACTER OF THE CHEMICAL BOND 67-11 M15-80172
NONOHMIC PROPERTIES IN N-TYPE INSB 67-12 M15-81767
ANTINEUTRINOS
SEE ANTIPARTICLES
ANTINEUTRONS
SEE ANTIPARTICLES
ANTIPARTICLES
ANNIHILATION OF POSITRONS WITH ELECTRONS IN PLASTICALLY DEFORMED METALS WITH BCC LATTICES 67-04 M16-66001
ANTIPROTONS
SEE ANTIPARTICLES
ANTIQUEING
CONTRIBUTION TO THE PHENOMENOLOGY OF CORROSION AND PATINA FORMATION OF ANTIQUE COPPER ALLOYS 67-06 M18-70245
APPARENT DENSITY
SEE BULK DENSITY
APPLIANCES /ELECTRIC/
SEE ELECTRIC APPLIANCES
AQUEOUS ELECTROLYTES, ELECTROPOLISHING
ELECTROPOLISHING OF PLATINUM FOILS AT -35 C. FOR TRANSMISSION ELECTRON MICROSCOPY 67-07 M13-72665
AQUEOUS QUENCHANTS
HEAT TREATMENT PROBLEMS SOLVED BY NEW QUENCHING MEDIUM 67-04 M10-68173
ARC BRAZING
MODERN TECHNIQUES FOR ALUMINIUM BRAZING 67-06 M11-71436
ARC CUTTING
SEE ALSO GAS TUNGSTEN ARC CUTTING
PLASMA ARC CUTTING
PLASMA ARC CUTTING OF ALUMINIUM ALLOYS 67-02 M11-60013
MANUAL PLASMA ARC CUTTING OF ALUMINIUM 67-02 M11-60014
AUTOMATIC AIR-ARC CUTTING OF METAL WITH A ROTARY DISK 67-04 M11-67810
CORROSION RESISTANCE OF GAS ARC CUT WELDED JOINTS IN STAINLESS STEELS 67-04 M18-67359
AUTOMATIC ARC-AIR CUTTING OF METAL WITH A ROTATING DISC 67-06 M11-70310
CONTACT ARC FLASH CUTTING OF FERROUS AND NONFERROUS ALLOYS 67-08 M11-75417
ELECTRICAL WORKING OF METALS IN METALLURGY 67-10 M12-78388
ARC CUTTING OF FERROUS AND NON-FERROUS METALS WITH A ROTATING DISC ELECTRODE 67-12 M11-82038
ARC CUTTING, CORROSION
CORROSION RESISTANCE OF STAINLESS STEEL WELDED JOINTS WITH GAS-ELECTRIC CUTTING OF EDGES 67-01 M18-58278
ARC DEPOSITION
SEE ALSO PLASMA ARC SURFACING
VIBRO ARC DEPOSITION
CAVITATION ATTACK IN BUILT-UP METAL 67-01 M17-58205
ARC DISCHARGES
SEE ELECTRIC ARCS
ARC FURNACES

SEE ELECTRIC ARC FURNACES

ARC GOUGING
SEE ARC CUTTING

ARC MELTING
SEE ELECTRIC ARC MELTING

ARC MELTING FURNACES
SEE ELECTRIC ARC FURNACES

ARC METAL SPRAYING
SEE ARC SPRAYING
METAL SPRAYING

ARC PLASMA HEATING
SEE PLASMA ARC MELTING

ARC PLASMA METALLIZING
SEE ARC SPRAYING
METALLIZING
PLASMA SPRAYING

ARC PLASMA WELDING
SEE PLASMA ARC WELDING

ARC RESISTANCE HEATING
SEE SLAG RESISTANCE HEATING

ARC SEAM WELDING
FIXTURING INGENUITY, KEY TO FULLY AUTOMATIC WELDING
67-02 M11-61646
TWO-SIDED TRIPLE-LAYER WELDING OF SPIRAL-SEAMED TUBES, 1020 MM DIAMETER 67-04 M11-66435
PRE-STRESSING IN MULTILAYER DRUMS DURING ARC WELDING 67-04 M11-66473
ARC WELDING SEAMS WITH FORCED SHAPING
67-04 M11-66577
VERTICAL ARC WELDS MADE WITH CONSTRAINING MOULDS
67-07 M11-73434

ARC SEAM WELDING, MECHANICAL PROPERTIES
THREE PASS SPIRAL WELDS MADE FROM BOTH SIDES IN 1020 MM DIAM PIPES 67-07 M11-72694

ARC SKULL MELTING
SEE SKULL MELTING

ARC SPOT WELDING
CO2 SHIELDED ELECTRIC PLUG WELDING
67-04 M11-66475
SPOT ARC WELDING AND SPOT RESISTANCE WELDING OF THERMALLY STRENGTHENED VT14 TITANIUM ALLOY
67-06 M11-70020

ARC SPRAYING
SEE ALSO PLASMA ARC SURFACING
PUTTING PLASMA TO WORK 67-04 M08-66579
FLAME SPRAYING BY MEANS OF PLASMA AND ELECTRIC ARC
67-05 M12-69122
SPOT WELDING OF ALUMINUM TO ALUMINUM-PLATED STEEL
67-06 M11-71654
BORON ALUMINUM COMPOSITE FABRICATED BY PLASMA SPRAYING 67-07 M09-73358
SPOT WELDING ALUMINIUM TO ALITISED STEEL
67-10 M11-79622
SIMPLIFIED GUIDE TO THERMAL-SPRAY COATINGS
67-10 M12-79183
METALLURGICAL APPLICATION OF PLASMA GUNS
67-11 M12-80356

ARC WELDING
SEE ALSO ARC SEAM WELDING
ARC SPOT WELDING
CARBON ARC WELDING
FLUX CORE WIRE WELDING
GAS METAL ARC WELDING
GAS TUNGSTEN ARC WELDING
INERT GAS WELDING
PLASMA ARC WELDING
SHIELDED ARC WELDING
SHIELDED METAL ARC WELDING
STUD WELDING
SUBMERGED ARC WELDING
UNSHIELDED ARC WELDING
STATE AND DEVELOPMENT OF WELDING MATERIAL MANUFACTURE
67-01 M11-57145
CRACK WELDINGS OF 13 PER CENT CR STEEL CASTINGS
67-01 M11-57240
MAGNETIC INTERACTION OF ARCS DURING TWIN-ARC THREE-PHASE WELDING 67-01 M11-57393
ON THE FORM OF THE CURVE OF STATIC VOLT-AMPERE CHARACTERISTIC OF AN ARC UNDER WATER
67-01 M11-57394
VACUUM SHIELDING OF METALS DURING WELDING
67-01 M11-57395
ARC WELDING THE EDGES --ENDS-- OF STEEL TUBES
67-01 M11-57525
ARC PRESSURE IN PLUG WELDING WITH DEEP FUSION
67-01 M11-57526
IMPROVING THE EFFICIENCY OF PLUG WELDING
67-01 M11-57530
ARC WELDING LOW-ALLOY STEEL THICK-WALLED PIPES OPERATING UNDER 180-320 ATMOSPHERES
67-01 M11-57536
MANUAL ARC WELDING HYDROGEN RESISTANT, 60 MM GAGE 5 PER CENT CR-0.5 PER CENT MO SHEET STEEL
67-01 M11-58164
ON THE CRYSTALLIZATION OF THE WELD MOLTEN POOL AND CALCULATION OF RATE 67-01 M11-58202
SPECIAL ASPECTS OF HEAT TREATED ANCHOR WELDS IN CONCRETE REINFORCING RODS 67-01 M11-58290
BRITISH DEVELOPMENTS IN THE USE OF STEEL TO B.S. 968..1962 IN WELDED CONSTRUCTION
67-01 M11-58524
ON THE ESCAPE OF DISSOLVED HYDROGEN FROM WELD METAL 67-01 M11-58778
INFLUENCE OF COMPOSITION OF CAST IRON DEPOSIT WELDS ON ITS HEAT RESISTANCE 67-01 M12-57392
SOME PARAMETERS OF CONTACT DEPOSIT ELECTROWELDING
67-01 M12-57397
DETERMINING THE STATIC CHARACTERISTICS OF SELF-REGULATING SYSTEMS OF WELDING WITH SHORT ARC CLOSINGS 67-01 M12-57528
STRUCTURE AND PROPERTIES OF HIGH-MANGANESE METAL BUILT-UP BY A POWDER WELDING WIRE
67-01 M17-57391
INFLUENCE OF ALLOYING ELEMENTS ON MECHANICAL PROPERTIES OF BASIC WELD DEPOSITED METAL. PT. 2. STRESS RELIEF ANNEALING 67-01 M17-57911
WELDING OF HEATERS IN KH5M STEEL
67-02 M11-59521
ERECTION WELDING OF BILAYER STEEL 20K-PLUS-KH17N13M2T 67-02 M11-59528
THE WELDING OF 35GS REINFORCING STEEL DURING THE CONSTRUCTION OF PITHEAD GEAR IN WINTER
67-02 M11-59643
CERTAIN SPECIAL FEATURES OF THE WELDING OF MILD AND LOW-ALLOY STRUCTURAL STEELS AT LOW TEMPERATURES 67-02 M11-59791
ARC WELDING HIGH-SPEED STEEL TIPS TO CUTTING TOOL SHANKS 67-02 M11-59795
WELDABILITY AND MAJOR WELDING PROCESSES FOR STAINLESS STEELS 67-02 M11-59803
WELDING OF COPPER AND COPPER ALLOYS IN THE CONSTRUCTION OF VESSELS AND OTHER EQUIPMENT
67-02 M11-59830
WELDABILITY OF HEAT TREATED ST.3PS STEEL
67-02 M11-60002
WELDABILITY OF HEAT TREATED LOW ALLOY 15GF STEEL
67-02 M11-60004
CO2 SHIELDED PLUG WELDING OF 45 STEEL
67-02 M11-60008
WELDING OF KH8VL STEEL CAST FITTINGS TO PREVIOUSLY WELDED KH8VF STEEL TUBES
67-02 M11-60011
DEVELOPMENT OF WELDING PRACTICES IN SHIPBUILDING
67-02 M11-60042
WELDING OF STEEL FOR LOW-TEMPERATURE SERVICE. PT. 3. YND-37 STEEL, YND-58 STEEL AND 9 PER CENT NI STEEL 67-02 M11-60170
A CONTINUOUS PRODUCTION LINE FOR FITTING UP AND WELDING ELECTRIC LOCOMOTIVE FRAMES --FROM EXPERIENCE AT THE NOVOCHERKASSK ELECTRIC LOCOMOTIVE WORKS-- 67-02 M11-60192
EXPERIENCE OF PRODUCING NEW WELDING EQUIPMENT
67-02 M11-60193
SPECIAL FEATURES INVOLVED IN WELDING STEEL STRUCTURES AT LOW TEMPERATURES
67-02 M11-60200
WELDING METHOD 67-02 M11-60952
WELDING UP CRACKS IN CASTINGS MADE OF A STEEL CONTAINING 13 PER CENT CHROMIUM
67-02 M11-61039
A TECHNOLOGY FOR WELDING UP CRACKS IN HIGH-PRESSURE STEAM TURBINE CYLINDERS 67-02 M11-61044
THE CONDITIONS UNDER WHICH WELDS COOL DURING THE WELDING OF HARDENABLE STEELS 67-02 M11-61053
AN ELECTRODE FOR WELDING 18-8 ACID-RESISTANT STEEL
67-02 M11-61054
AN AUTOMATIC CONTACTLESS METHOD FOR TRACKING A WELD JOINT 67-02 M11-61065
ARC HEATING OF THE ENDS OF STEEL TUBES
67-02 M11-61144
ARC PRESSURE IN DEEP PENETRATION PLUG WELDING
67-02 M11-61145
IMPROVING THE ECONOMY OF ARC SPOT WELDING
67-02 M11-61149
ARC WELDING OF THICK WALLED TUBES MADE OF LOW CARBON STEEL 67-02 M11-61155
STRENGTH OF WELDED CRUCIFORM JOINTS OF ST. 3 STEEL DURING ARC WELDING 67-02 M11-61261

ARC WELDING

REGULATING THE AMOUNT OF FUSION IN ARC WELDING OF NONROTATED BUTT WELDS IN TUBES 67-02 M11-61262
WELDING ST. 3 STEEL TO KH18N10T STEEL WITH UONI-13/45 ELECTRODES 67-02 M11-61266
DETERMINATION OF THE STATIC CHARACTERISTICS OF SELF-REGULATION SYSTEMS FOR ARC WELDING PROCESSES 67-02 M12-61147
USABILITY OF WEL-TEN 80C WELDED JOINTS OF HIGH-TENSION STEEL 67-02 M17-58940
WELDING HEAT TREATED ST. 5 AND 35GS STEELS 67-02 M17-60003
SOME NOTES ON THE MANUAL ARC WELDING OF LOW-TEMPERATURE HIGH-STRENGTH STEELS 67-02 M17-60106
DESIGN AND CONSTRUCTION OF PRESSURE VESSELS UTILIZING HIGH-STRENGTH STEEL 67-02 M20-59964
WELDING CAST HEAT RESISTANT FE-25CR-5AL ALLOY 67-03 M11-65050
PULSED ARC WELDS ALUMINIUM BARRELS 67-03 M11-65674
INVESTIGATING ARC MOTION IN A MAGNETIC FIELD 67-04 M11-66427
ACCEPTANCE TESTING OF LOW-CARBON AND LOW-ALLOY STRUCTURAL STEELS FOR WELDABILITY 67-04 M11-66436
CONSISTENCY OF PULSED ARC WELDING WITH A CONSUMABLE ELECTRODE 67-04 M11-66464
TST-23 ELECTRODES FOR WELDING KH16N14V2BR TYPE STEELS 67-04 M11-66466
WELDING OF HEATERS MADE FROM KH5M STEEL 67-04 M11-66470
THE PULSED ARC WELDING OF AT3 TITANIUM ALLOY 67-04 M11-66527
SELECTION OF FILLER METAL FOR ARC WELDING 67-04 M11-66560
THE ARGON SHIELDED PULSED ARC WELDING OF ALUMINIUM ALLOYS 67-04 M11-67356
A MULTI-ELECTRODE MACHINE FOR SPOT WELDING HATCH COVERS 67-04 M11-67361
WELDING METALLURGY OF RUTILE ELECTRODES 67-04 M11-67420
WELDING OF STEELS VARYING IN COMPOSITION AND STRUCTURAL CLASS 67-04 M11-67801
CHANGE IN HYDROGEN CONTENT OF WELD METAL IN RELATION TO SEASON AND DIAMETER OF ELECTRODES 67-04 M11-67804
WELDABILITY OF THIN PIECES OF AMG6 ALLOY 67-04 M17-67016
STRENGTH OF ARC WELDED CRUCIFORM JOINTS IN STEEL ST. 3 67-05 M11-68261
REGULATING THE REINFORCEMENT IN UNROTATED PIPE JOINTS MADE BY ARC WELDING 67-05 M11-68262
WELDING STEEL ST. 3 TO STEEL KH18N10T WITH UONI-13/45 ELECTRODES 67-05 M11-68266
WELDING CARBON-GRAPHITE MATERIALS 67-05 M11-69411
SPOTLIGHT ON ARC WELDING. PT. 30. F. ATKINSON --NOTTINGHAM--LTD 67-05 M11-69430
WELDING STEELS OF DISSIMILAR COMPOSITION AND STRUCTURAL TYPE 67-06 M11-70301
VARIATIONS IN WELD METAL HYDROGEN CONTENTS 67-06 M11-70304
EFFECT OF WELDING CONDITIONS AND HEAT TREATMENT ON THE BRITTLENESS OF VT15 TITANIUM ALLOY WELDED JOINTS 67-06 M11-70390
IMPROVING THE EFFICIENCY OF MANUAL MILTIPOST WELDING ON A-C CURRENT 67-06 M11-70392
ARC WELDING OF COMBINED BUTTS OF STEAM HEATER PIPES IN 12KH1MF PLUS 1KH18N12T --1KH18N9T-- STEEL 67-06 M11-70396
A REMARKABLE ASSEMBLY--A BUBBLE CHAMBER ENVELOPE OF C. E. N. DESACLAY 67-06 M11-70576
WELDING KEEPS APOLLO ON SCHEDULE 67-06 M11-71573
THE WELDING OF STEELS FOR LOW TEMPERATURE APPLICATIONS 67-06 M11-71596
INFLUENCE OF HEAT TREATMENT ON STRUCTURE AND BRITTLEMENTS OF FUSION ZONE OF PEARLITIC AND MARTENSITIC STEELS 67-06 M11-71644
REQUISITES FOR MANUAL ARC WELDING IN THE SHIP-BUILDING INDUSTRY WITHOUT BEVELING EDGES 67-06 M11-71873
WELDABILITY TESTS FOR MILD AND LOW ALLOY STRUCTURAL STEELS 67-07 M11-72695
THE MECHANISM OF HOT CRACKING DURING WELDING 67-07 M11-72730
SPECIFIC HEAT ENERGY OF ARC IN SOME WELDING PROCESSES WITH CONSUMABLE ELECTRODES 67-07 M11-72732
THE WELDING OF SAP 67-07 M11-73468
WELDING CAST FE..25 CR.. 5AL HEAT RESISTING ALLOY 67-07 M11-73970
SURFACING WITH BRONZE 67-07 M11-74277
THE MOVEMENT OF ARCS IN MAGNETIC FIELDS 67-07 M15-72686
WELDING OF COPPER WITH DEEP PENETRATION ELECTRODES 67-08 M11-75360
A WELDED PISTON MADE OF SILUMIN FOR THE D70 DIESEL LOCOMOTIVE 67-08 M11-75409
DOUBLE ARC WELDING A SEMITRAILER BEAM 67-08 M11-75410
TEMPERATURE DISTRIBUTION IN THE MOLTEN POOL IN PULSED ARC WELDING OF AMG6 ALLOYS WITH CONSUMABLE ELECTRODE 67-08 M11-75418
THE INFLUENCE OF PHYSICAL PROPERTIES ON PENETRATION IN ARC WELDING 67-09 M11-76462
WELDING EDGE JOINTS IN A TRANSVERSE MAGNETIC FIELD 67-09 M11-77242
ENCLOSED ARC PROCESS APPLIED TO THE WELDING OF NEW TOKAIDO LINE 67-09 M11-77335
THE WELDING OF GALVANIZED STEEL AND ZINC RICH PAINTED STEEL 67-09 M11-77658
COPPER AND ITS ALLOYS 67-09 M11-77710
EFFECT OF WELDING CONDITIONS AND HEAT TREATMENT ON THE BRITTLENESS OF WELDED JOINTS IN VT15 TITANIUM ALLOY 67-09 M11-78090
MAKING THE MULTI-WELD --MANUAL-- D. C. POWDER SUPPLY MORE ECONOMIC 67-09 M11-78092
ARC BUTT WELDS BETWEEN STEAM SUPERHEATER TUBES MADE OF GRADES 12KH1MF AND 1KH18N12T --1KH18N12T-- STEELS 67-09 M11-78096
THE WELDING OF GRAPHITIC CARBON SUBSTANCES 67-10 M11-78515
THE WELDING OF CAST IRON WITH SPHEROIDAL GRAPHITE 67-10 M11-79488
INFLUENCE OF HEAT TREATMENT ON THE STRUCTURE AND TENDENCY TO EMBRITTLEMENT OF THE FUSION ZONE IN PEARLITIC AND MARTENSITIC STEELS 67-10 M11-79611
SEMI-AUTOMATIC WELDING OF REINFORCING STEEL WITH POWDER WIRE 67-11 M11-80546
WELDING REINFORCING STEELS WITH AN ALLOYED WIRE WITHOUT SHIELDING 67-11 M11-80548
USING THE VORTEX EFFECT IN GAS-ELECTRIC WELDING 67-11 M11-80558
STUDY OF NITRIDES IN WELD METAL DURING OPEN ARC WELDING OF STEEL 67-11 M11-80637
FORMATION OF HOT CRACKS WHEN FINISHING ARC WELDING AT AN INCREASED SPEED 67-12 M11-81909
WELDED SILUMIN PISTONS FOR D70 LOCOMOTIVE ENGINES 67-12 M11-82030
THE TWIN ARC WELDING OF OPEN TOP WAGON SOLE BARS 67-12 M11-82031
TEMPERATURE DISTRIBUTION IN THE MOLTEN METAL POOL DURING THE VIBROARC WELDING OF AMG6 ALLOY WITH A CONSUMABLE ELECTRODE 67-12 M11-82039
THE APPLICATION OF WELDING TECHNIQUES IN THE AIR AND IN SPACE 67-12 M11-82464
A RATIONAL APPROACH TO STANDARDS FOR WELDED CONSTRUCTION. PT. 3 67-12 M11-82660
THERMAL EFFICIENCY OF A FAST-MOVING ARC 67-12 M11-83183
POWER EFFICIENCY OF ARC RESISTANCE BUTT WELDING OF STEEL TUBES 67-12 M11-83184
INFLUENCE OF PREHEATING ON RESIDUAL STRESSES IN STEAMPIPES OF 1KH18N9T STAINLESS STEEL 67-12 M11-83188
ARC ATMOSPHERE AND NITROGEN CONTENT OF WELD METAL 67-12 M11-83211
MECHANISM OF HOT CRACKING DURING WELDING 67-12 M13-82309

ARC WELDING, COMPOSITION EFFECTS
SELECTION OF THE OPTIMUM COMPOSITION OF AUSTENITIC CR-NI STEELS FOR WELDED STRUCTURES 67-06 M11-71854
SELECTING RATIONAL AUSTENITIC CHROMIUM-NICKEL STEELS FOR WELDED STRUCTURES 67-11 M11-80886

ARC WELDING, QUALITY CONTROL
CONCERNING THE TRAVEL RATE OF THE WELDING ARC IN A MAGNETIC FIELD 67-10 M11-78403

ARC WELDING, TEMPERATURE EFFECTS
EFFECT OF INITIAL TEMPERATURE OF BASE METAL ON WELD JOINT PROPERTIES 67-01 M11-57388

ARC WELDING MACHINES
CHARACTERISTICS OF AN APPARATUS FOR WELDING WITH AN ARC, ROTATING IN A MAGNETIC FIELD

67-04 M11-66434
CO2 SHIELDED ELECTRIC PLUG WELDING
67-04 M11-66475
APPARATUS FOR WELDING WITH THE ARC ROTATING IN A MAGNETIC FIELD 67-07 M11-72693

ARC WELDS
SEE ARC WELDING
WELDED JOINTS

ARCS /ELECTRIC/
SEE ELECTRIC ARCS

AREA
DETERMINATION OF THE RELATIVE DISPERSION OF SOME METAL POWDERS 67-02 M09-62107
X-RAY DIFFRACTION TECHNIQUE FOR RAPID SURFACE AREA DETERMINATION 67-02 M13-58901
MEASUREMENT OF THE SURFACE AREA OF POWDERS BY CONDENSING NITROGEN FROM A GAS STREAM
67-12 M09-83460

ARGON, ADSORPTION
THE ADSORPTION OF HELIUM, ARGON AND NITROGEN ON GRAPHITE 67-10 M14-78499

ARGON, PHASES /STATE OF MATTER/
PHASE TRANSFORMATIONS ON SOLID SURFACES
67-07 M14-73816

ARGON, SORPTION
GAS INCORPORATION INTO SPUTTERED FILMS
67-12 M14-83264

ARGON ARC FURNACES
SEE CONTROLLED ATMOSPHERES
ELECTRIC ARC FURNACES

ARGONARC CUTTING
SEE GAS TUNGSTEN ARC CUTTING

ARGONARC WELDING
SEE GAS TUNGSTEN ARC WELDING

ARMATURES /MOTOR/
SEE MOTOR ARMATURES

ARMOR, DESIGN
NEW STOCKLINE ARMOR DESIGN. VARIABLE-DIAMETER STOCKLINE ARMOR FOR BLAST FURNACES
67-08 M04-74468

ARMOR, WELDING
SUBMERGED-ARC WELDING OF ARMY ARMOR
67-06 M11-71683

ARMOR PLATE
SEE ARMOR

ARRHENIUS ACTIVATION ENERGY
SEE FREE ENERGY OF ACTIVATION

ARSEM FURNACES
SEE ELECTRIC RESISTANCE FURNACES

ARSENATES, CRYSTAL LATTICES
EQUILIBRIUM DIAGRAM AT 60 C. OF THE FE2O3-AS2O5-H2O SYSTEM AND A RADIOCRYSTALLOGRAPHIC STUDY OF THE ARSENATES, FE2O3-3AS2O5-8H2O AND AL2O3-3AS2O5-8H2O 67-12 M13-82512

ARSENIC, ALLOYING ADDITIVE
MECHANISM OF DENODULARIZER ACTION IN MAGNESIUM-TREATED CAST IRON 67-02 M06-61012
THE EFFECT OF ARSENIC ON THE AGE-HARDENING OF LEAD-ANTIMONY ALLOYS 67-02 M14-60230
EFFECTS OF ARSENIC ON ELECTRO-CHEMICAL BEHAVIORS OF COPPER AND COPPER-ZINC ALLOYS IN 3 PER CENT NACL AQUEOUS SOLUTION 67-02 M18-59988
INFLUENCE OF ARSENIC ON HARDENABILITY OF QUALITY CARBON STEEL 67-04 M17-66375
INFLUENCE OF ARSENIC ON TEMPER BRITTLENESS OF LOW-CARBON MANGANESE STEEL 67-06 M17-70075
MICROHARDNESS AND ITS ANISOTROPY IN SINGLE CRYSTALS OF GERMANIUM ALLOYED WITH VARIOUS ADDITIVES
67-08 M17-75445
HIGH TEMPERATURE OXIDATION OF MILD STEELS CONTAINING ARSENIC AND TIN AS TRAMP ELEMENTS
67-09 M18-78133
EFFECT OF ARSENIC ON THE SUSCEPTIBILITY OF LOW-CARBON MANGANESE STEEL TO REVERSIBLE TEMPER BRITTLENESS 67-10 M17-78821
EFFECT OF ARSENIC ON THE HARDENABILITY OF HIGH-GRADE CARBON STEELS 67-11 M17-80977
EFFECT OF ARSENIC ON THE PRIMARY CRYSTALLIZATION OF MAGNESIUM CAST IRON 67-12 M06-81975

ARSENIC, ALLOYING ADDITIVE
CONTRIBUTION TO THE STUDY OF THE INFLUENCE OF AS ON
CONTRIBUTION TO THE STUDY OF THE INFLUENCE OF AS ON THE MECHANICAL PROPERTIES OF STEEL
THE MECHANICAL PROPERTIES OF STEEL
67-12 M17-83580

ARSENIC, BINARY SYSTEMS
NEW PHASES IN THE ZR-P AND ZR-AS SYSTEMS
67-03 M13-65690

ARSENIC, CHEMICAL ANALYSIS
DISTRIBUTION OF ARSENIC IN CARBON STEEL IN THE CRITICAL TEMPERATURE AREA 67-01 M13-57186
DETERMINATION OF ARSENIC IN SB-FE MATRICES BY ACTIVATION ANALYSIS 67-05 M19-68812

ARSENIC, DIFFUSION
PRECIPITATION OF PHOSPHORUS, ARSENIC, AND BORON IN THIN SILICON FOILS 67-09 M14-77152
SIMULTANEOUS DIFFUSION OF GA AND AS INTO SILICON FROM A GAAS SOURCE 67-11 M14-80535

ARSENIC, ELECTRICAL PROPERTIES
DE HAAS-VAN ALPHEN EFFECT AND FERMI SURFACE IN ARSENIC 67-06 M16-69918
DE HAAS-SHUBNIKOV OSCILLATIONS IN THE HALL EFFECT IN ARSENIC 67-08 M16-75826

ARSENIC, EXTRACTION
A HYDROMETALLURGICAL METHOD OF TREATING KHOUV-AKSINSK ARSENATE COBALT-NICKEL CONCENTRATES
67-08 M02-75089
ALKALI-ELECTROLYTIC METHOD FOR EXTRACTION OF ARSENIC FROM CONVERTER DUST 67-10 M03-79037
REMOVAL OF ARSENIC FROM SOLUTIONS DURING TREATMENT OF DUST FROM THE COPPER SMELTING INDUSTRY
67-10 M03-80050

ARSENIC, FERMI SURFACE
EXPERIMENTAL DETERMINATION OF FERMI SURFACE IN PURE AND DOPED ARSENIC THROUGH DE HAAS-VAN ALPHEN EFFECT 67-04 M16-66793

ARSENIC, IMPURITIES
HIGH TEMPERATURE OXIDATION OF MILD STEELS CONTAINING ARSENIC AND TIN AS TRAMP ELEMENTS
67-01 M18-57491
EFFECT OF ARSENIC ON THE STRESS-RUPTURE STRENGTH OF MST. 3 MILD STEEL AT 723 K
67-02 M17-59686

ARSENIC, INTERMETALLICS
THE CRYSTAL STRUCTURE OF MO5AS4
67-01 M13-58510
HIGH-PRESSURE STUDY OF THE FIRST-ORDER PHASE TRANSITION IN MNAS 67-08 M16-75930

ARSENIC, QUATERNARY SYSTEMS
AN INVESTIGATION OF THE LIQUID MISCIBILITY GAPS IN THE LEAD-COPPER-IRON-ARSENIC SYSTEM
67-11 M15-81338

ARSENIC, TERNARY SYSTEMS
THE COPPER-TIN-ARSENIC CONSTITUTION DIAGRAM. PT. 1. SOLIDIFICATION REACTIONS 67-01 M13-57419
THE COPPER-TIN-ARSENIC CONSTITUTION DIAGRAM. PT. 2. REACTIONS IN THE SOLID STATE 67-01 M13-57420
THE GA-AS-SI TERNARY PHASE SYSTEM
67-02 M13-59453
THE TERNARY CONDENSED PHASE DIAGRAM OF THE GA-AS-TE SYSTEM 67-03 M14-65428
X-RAY INVESTIGATIONS IN THE V-AS-C SYSTEM
67-04 M14-67055
TERNARY CONDENSED PHASE SYSTEMS OF GALLIUM AND ARSENIC WITH GROUP IB ELEMENTS
67-07 M14-73460
EXAMINATION OF THE SYSTEM CU-AS-S AND THE DISTRIBUTION OF AG BETWEEN MATTE AND SPEISS
67-08 M15-74598
CHEMICAL BOND AND STRUCTURE OF THE TERNARY COMPOUND INASTE 67-11 M01-80234

ARSENIC, THERMODYNAMICS
LOW-TEMPERATURE SPECIFIC HEAT OF ARSENIC AND ANTIMONY 67-09 M15-77165

ARSENIC, TRANSPORT PROPERTIES
DIFFUSION AND ELECTROTRANSPORT OF SOLUTES IN MOLTEN GERMANIUM--IMPLICATIONS FOR PRODUCING P-N JUNCTIONS 67-06 M15-69927

ARSENIC, X RAY ANALYSIS
RESEARCH ON RE3AS7 67-04 M13-66167

ARSENIC COMPOUNDS, CRYSTAL GROWTH
EPITAXIAL DEPOSITION OF GAAS IN AN ARGON ATMOSPHERE
67-06 M16-72180

ARSENIC COMPOUNDS, CRYSTAL LATTICES
TWINNING AND MORPHOLOGY OF EPITAXIAL LAYERS OF GAAS ON GE 67-06 M13-70513
THE CRYSTALLINE PERFECTION OF MELT-GROWN GAAS SUBSTRATES AND GA --AS, P-- EPITAXIAL DEPOSITS
67-06 M14-71422
DETECTION OF SELENIUM CLUSTERING IN GAAS BY TRANSMISSION ELECTRON MICROSCOPY
67-07 M14-72650

ARSENIC COMPOUNDS, ELECTRICAL PROPERTIES
FIELD DISTRIBUTION IN N-TYPE GAAS UNDER HIGH ELECTRIC FIELD 67-06 M16-72047
PHOTOELECTRIC PROPERTIES OF AS2SE3 LAYERS
67-11 M15-80816

ARSENIC COMPOUNDS, MECHANICAL PROPERTIES

ARSENIC COMPOUNDS

INFLUENCE OF DOPING ON THE PLASTIC DEFORMATION OF GALLIUM ARSENIDE SINGLE CRYSTALS 67-06 M17-70514

ARSENIC COMPOUNDS, OPTICAL PROPERTIES
PHOTOLUMINESCENCE OF EPITAXIAL N-TYPE GAAS AT 20 K 67-03 M16-65747
OPTICAL PROPERTIES OF THE MIXED AMORPHOUS SYSTEM, AS2SXSE3-X 67-10 M16-79369

ARSENIC COMPOUNDS, PHASE TRANSFORMATIONS
PHASE TRANSFORMATION OF AS2SE3 AND SB2SE3 FILMS 67-12 M14-83269

ARSENIC COMPOUNDS, PHASES /STATE OF MATTER/
STRUCTURE OF SEMICONDUCTING COMPOUNDS OF ARSENIC AND ANTIMONY WITH GROUP-8 ELEMENTS 67-11 M13-80177

ARSENIC COMPOUNDS, PHOTOCONDUCTORS
OPTICALLY AND THERMALLY EXCITED CURRENT CARRIER TRANSITIONS WITH SURFACE TRAPS IN GAAS 67-05 M16-68339

ARSENIC COMPOUNDS, THERMODYNAMICS
ANALYSIS AND EVALUATION OF MOLECULAR CONSTANTS OF BIATOMIC MOLECULES OF CHALCO-GENIDES OF THE V GROUP 67-05 M16-68956

ARSENIC COMPOUNDS, THIN FILMS
CARRIER-CONCENTRATION PROFILES OF N-TYPE SN AND TE DOPED EPITAXIAL GAAS FILMS 67-03 M16-65430

ARSENIC COMPOUNDS, TRANSPORT PROPERTIES
PHYSICAL AND ELECTRONIC PROPERTIES OF CD3AS2-ZNSNAS2 ALLOYS 67-04 M15-67578
OHMIC CONTACTS TO GAAS BY A SIMPLE LOW TEMPERATURE ALLOYING PROCESS 67-06 M16-72179

ARSENIDES, BAND THEORY
BAND STRUCTURE OF GAAS, GAP, INP AND ALSB.. THE K.P METHOD 67-04 M16-66741
ELECTRON EFFECTIVE MASS IN GALLIUM ARSENIDE AS A FUNCTION OF DOPING 67-04 M16-66755
SHUBNIKOV-DE HAAS EFFECT AND ELECTRON BAND STRUCTURE OF CADMIUM ARSENIDE 67-04 M16-66768
ELECTRONIC ENERGY BANDS IN GAAS FOR IMAGINARY CRYSTAL MOMENTUM 67-04 M16-67365
DIRECT EDGE PIEZOREFLECTANCE IN GE AND GAAS 67-08 M16-75007

ARSENIDES, COATING
VAPOR PLATING OF TIN ONTO GALLIUM ARSENIDE 67-10 M15-79126

ARSENIDES, CRYSTAL GROWTH
EPITAXIAL GROWTH OF BULK-QUALITY GALLIUM ARSENIDE ON GALLIUM ARSENIDE AND GERMANIUM SUBSTRATES 67-01 M14-57126
GROWTH OF INAS WHISKERS IN WURTZITE STRUCTURE 67-02 M14-59067
SELECTIVE EPITAXIAL DEPOSITION OF GALLIUM ARSENIDE IN HOLES 67-02 M14-61767
ORIENTED GROWTH OF SEMICONDUCTORS. PT. 3. GROWTH OF GALLIUM ARSENIDE ON GERMANIUM 67-03 M14-65873
METHOD FOR PREPARATION OF THIN, ORIENTED GAAS CRYSTALS 67-03 M14-65897
EFFECTS OF DOPING ON THE GROWTH RATE AND MORPHOLOGY OF EPITAXIAL GALLIUM ARSENIDE 67-05 M14-68591
PREPARATION OF EPITAXIAL GAXIN1-XAS 67-05 M14-68623
REFLECTION X-RAY TOPOGRAPHY OF GAAS DEPOSITED ON GE 67-06 M14-70667
THE PREPARATION AND PROPERTIES OF EPITAXIAL GALLIUM ARSENIDE 67-07 M14-72914
DISTRIBUTION COEFFICIENTS IN GALLIUM ARSENIDE 67-07 M14-72919
RECENT PROGRESS IN THE PREPARATION OF VERY PURE GALLIUM ARSENIDE 67-07 M14-72921
PREPARATION AND CHARACTERISTICS OF GALLIUM ARSENIDE 67-07 M16-72916
NEW ASPECTS OF SOLUTION REGROWTH IN THE DEVICE TECHNOLOGY OF GALLIUM ARSENIDE 67-07 M16-72922
INVESTIGATION OF THE PROCESS OF GROWING EPITAXIAL GAAS FILMS BY USING THE OPEN IODIDE METHOD 67-09 M14-76851
DISLOCATION FREE EPITAXIAL GAAS 67-10 M14-78443
OBSERVATION OF THE GROWTH PROCESS OF GALLIUM ARSENIDE ON TUNGSTEN 67-10 M14-79024
GROWTH OF GALLIUM ARSENIDE SINGLE CRYSTAL FROM LIQUID PHASE ON SEED CRYSTAL 67-11 M14-80822
PREPARATION OF OHMIC CONTACTS FOR N-TYPE GAAS 67-11 M14-80834
PREPARATION OF RESTRICTED-AREA GAAS TUNNEL DIODES 67-11 M14-80835

ARSENIDES, CRYSTAL LATTICES
EFFECTS OF STRESS-INDUCED BAND-GAP WIDENING AND DEFECTS IN GAAS JUNCTIONS 67-02 M15-61830
CRYSTALLOGRAPHY OF SIP AND SIAS SINGLE CRYSTALS AND OF SIP PRECIPITATES IN SI 67-03 M13-65872
INVESTIGATION OF INHOMOGENEITIES IN GAAS BY ELECTRON-BEAM EXCITATION 67-05 M13-68621
STRUCTURAL DEFECTS IN EPITAXIAL GALLIUM ARSENIDE 67-07 M13-72918
PYRAMID FORMATION IN EPITAXIAL GALLIUM ARSENIDE LAYERS 67-07 M14-72917
INSB AND INAS LATTICE CHANGE DURING ZINC DIFFUSION 67-09 M14-77456
DISTRIBUTION AND DENSITY OF DISLOCATIONS IN BENT AND ANNEALED GALLIUM ARSENIDE AND INDIUM ANTIMONIDE CRYSTALS 67-10 M13-79246

ARSENIDES, DIFFUSION
DIFFUSION OF CADMIUM IN INDIUM ARSENIDE 67-03 M14-65457
SURFACE RECOMBINATION VELOCITIES AND DIFFUSION LENGTHS IN GAAS 67-04 M14-66762
COPPER DIFFUSED GALLIUM ARSENIDE P-N JUNCTIONS 67-04 M16-66119
PRECIPITATES INDUCED IN GAAS BY THE INDIFFUSION OF ZINC 67-05 M14-68626
DECORATED DISLOCATIONS AND SUB-SURFACE DEFECTS INDUCED IN GAAS BY THE IN-DIFFUSION OF ZINC 67-05 M14-68627
DIFFUSION AND SOLUBILITY OF CADMIUM IN INDIUM ARSENIDE 67-05 M16-69395
THE EFFECT OF APPLIED ELECTRIC FIELD ON DIFFUSION OF IMPURITIES IN GALLIUM ARSENIDE 67-06 M16-70986
MEASUREMENT OF DIFFUSION PROFILE OF ZN IN N-TYPE GAAS BY A SPREADING RESISTANCE TECHNIQUE 67-09 M14-78063
ELECTRICAL AND TRANSPORT PROPERTIES OF CU IN INAS 67-10 M15-79968
DIFFUSION OF ZINC IN GALLIUM ARSENIDE UNDER ARSENIC VAPOR PRESSURE 67-11 M14-80813

ARSENIDES, ELECTRICAL PROPERTIES
TRANSIENT PHENOMENA IN THE CAPACITANCE OF GAAS SCHOTTKY BARRIER DIODES 67-02 M16-60519
BEHAVIOUR OF SELENIUM IN GAAS 67-03 M16-65387
CATHODOLUMINESCENCE OF P-TYPE GAAS 67-04 M16-66761
INTERVALLEY SCATTERING RATE AND HIGH-FIELD ELECTRON DISTRIBUTIONS IN GAAS 67-04 M16-66781
SPACE-CHARGE CURRENTS IN N-TYPE GAAS 67-05 M16-69298
HIGH PURITY EXPITAXIAL INAS 67-06 M15-70084
LIFETIME IN SINGLE CRYSTALS OF GALLIUM ARSENIDE 67-06 M16-71830
INFLUENCE OF FAST-ELECTRON BOMBARDMENT ON THE SPECTRA OF PHOTOCONDUCTIVITY OF GAAS CRYSTALS GROWN IN AN OXYGEN ATMOSPHERE 67-06 M16-71918
THE SURFACE DAMAGE OF HIGH OUTPUT GALLIUM ARSENIDE LASERS 67-07 M16-72923
CARRIER RECOMBINATION IN INAS 67-07 M16-74059
MAGNETORESISTANCE 67-07 M16-74207
GALLIUM ARSENIDE FETS OUTPERFORM CONVENTIONAL SILICON MOS DEVICES 67-09 M16-76640
CURRENT SATURATION IN THE EVAPORATED GAAS FILMS 67-09 M16-77453
IMPROVEMENT OF QUANTUM EFFICIENCY IN GALLIUM ARSENIDE ELECTROLUMINESCENT DIODES 67-10 M15-79121
TRAP LEVELS IN GALLIUM ARSENIDE 67-10 M15-79122
PHOTOCONDUCTIVE DECAY IN N-TYPE POLYCRYSTALLINE FILMS OF INDIUM ARSENIDE 67-10 M16-79170
THERMOELECTRIC PROPERTIES OF YTTRIUM-GROUP V AND YTTRIUM-GROUP VI BINARY AND TERNARY COMPOUNDS 67-11 M15-80762
A CALCULATION OF NOISE IN SENSITIZED GAAS 67-11 M15-80937
MEASUREMENTS OF NOISE IN SENSITIZED GAAS 67-11 M15-80938

ARSENIDES, INTERMETALLICS
ANOMALOUS THERMAL CONDUCTIVITY OF CD3AS2 AND THE CD3AS2-ZN3AS2 ALLOYS 67-01 M15-57118

ARSENIDES, IRRADIATION
ANALYSIS OF N-TYPE GAAS WITH ELECTRON-BEAM-EXCITED RADIATIVE RECOMBINATION 67-05 M16-68620

ARSENIDES, MAGNETIC PROPERTIES
THE MAGNETIC STRUCTURE OF FE2AS 67-03 M15-65637

ARSENIDES OF THE TRANSITION METALS. PT. 8. SOME BINARY AND TERNARY GROUP 8 DIARSENIDES AND THEIR MAGNETIC AND ELECTRICAL PROPERTIES 67-03 M15-65945
SHIFT OF THE MAGNETORESISTANCE OSCILLATION MAXIMA DUE TO AN ELECTRIC FIELD IN INSB 67-04 M16-67366
MAGNETIC ANISOTROPY IN THE C-PLANE OF FE2AS 67-05 M15-69755
EFFECT OF PRESSURE ON MAGNETIC TRANSFORMATIONS IN MANGANESE ARSENIDE 67-06 M15-71829
INTERBAND MAGNETOABSORPTION IN INAS AND INSB 67-06 M16-69920
EFFECT OF PRESSURE ON MAGNETIC TRANSFORMATIONS IN MANGANESE ARSENIDE 67-07 M15-73706
STRUCTURAL AND MAGNETIC STUDY OF ARSENIDES M2AS 67-12 M15-83220

ARSENIDES, MECHANICAL PROPERTIES
ELASTIC MODULI OF GAAS AT MODERATE PRESSURES AND THE EVALUATION OF COMPRESSION TO 250 KBAR 67-09 M17-77454
THIRD-ORDER ELASTIC MODULI OF GALLIUM ARSENIDE 67-10 M17-79163

ARSENIDES, METALLOGRAPHY
ENHANCED GAAS ETCH RATES NEAR THE EDGES OF A PROTECTIVE MASK 67-02 M13-61772

ARSENIDES, OPTICAL PROPERTIES
LANDAU LEVELS AND MAGNETO-ABSORPTION IN INSB 67-03 M16-65033
PHOTOLUMINESCENCE OF CU-DOPED GALLIUM ARSENIDE 67-03 M16-65889
LOCALIZED MODES OF SUBSTITUTIONAL IMPURITIES IN INTERMETALLIC COMPOUNDS 67-04 M16-66744
HIGH FIELD MAGNETO-OPTICAL STUDIES OF CD3AS2 67-04 M16-66751
EDGE ABSORPTION AND PHOTOLUMINESCENCE IN DISORDERED GALLIUM ARSENIDE 67-04 M16-66760
OPTICAL REFLECTION OF GALLIUM PHOSPHIDE, GALLIUM ARSENIDE, AND THEIR SOLID SOLUTIONS 67-05 M16-69382
THE INFRARED FARADAY EFFECT IN P-TYPE SEMICONDUCTORS 67-06 M16-72088
ABSORPTION OF INFRARED RADIATION BY FREE CARRIERS IN N-GAAS 67-10 M15-79447

ARSENIDES, PHYSICAL PROPERTIES
SOME CHARACTERISTICS OF GAAS-GE EPITAXY 67-02 M16-61083
THE PHYSICAL AND ELECTRONIC PROPERTIES OF SEMICONDUCTING SOLID SOLUTIONS OF THE CD3AS2-ZN3AS2 SYSTEM 67-09 M15-78254
STUDY OF THE ELECTRICAL CONDUCTIVITY OF CDSNAS2 IN THE SOLID AND LIQUID STATES 67-10 M15-79831
DISSOCIATION PRESSURE OF INDIUM ARSENIDE, GALLIUM ARSENIDE, AND GALLIUM PHOSPHIDE 67-11 M15-80161

ARSENIDES, REACTIONS /CHEMICAL/
A METHOD OF PRODUCING HETEROJUNCTIONS BETWEEN COMPOUND SEMICONDUCTORS BY ALLOYING AND SUBSTITUTION REACTION 67-02 M16-59075
GALLIUM ARSENIDE ELECTRODE BEHAVIOR 67-07 M14-73455

ARSENIDES, SEMICONDUCTORS
THE PREPARATION AND PROPERTIES OF ZNSIAS2, ZNGEP2 AND CDGEP2 SEMICONDUCTING COMPOUNDS 67-03 M16-65394
THE BEHAVIOR, IN TIME, OF CONTINUOUSLY OPERATED GAAS LASER DIODES 67-03 M16-65437 67-07 M16-72913
GALLIUM ARSENIDE
SOME OPTICAL PROPERTIES OF THIN EVAPORATED CD3AS2 FILMS 67-08 M15-75220
QUANTUM OSCILLATIONS OF THE NERNST-ETTINGSHAUSEN EFFECT IN INDIUM ARSENIDE 67-08 M16-75246
PREPARATION AND PROPERTIES OF GAAS-SI HETEROJUNCTIONS BY SOLUTION GROWTH METHOD 67-11 M16-80814
PHOTOCONDUCTIVITY OF CHROMIUM-DOPED GALLIUM ARSENIDE 67-12 M15-82363

ARSENIDES, SINGLE CRYSTALS
CONTACT POTENTIAL DIFFERENCE BETWEEN THE --111-- AND --111-- SURFACES OF INSB CLEAVED IN ULTRAHIGH VACUUM 67-10 M15-79574

ARSENIDES, SOLUBILITY
THE SOLID SOLUBILITY LIMITS OF ZINC IN GAAS AT 1000 C 67-12 M14-82290

ARSENIDES, THERMAL PROPERTIES
THERMAL-EXPANSION COEFFICIENTS OF SELENIUM AND GALLIUM SELENIDE FROM X-RAY STRUCTURAL ANALYSIS DATA IN ASSOCIATION WITH THE CHEMICAL BOND 67-11 M13-80176
THERMODYNAMIC PROPERTIES OF INDIUM AND GALLIUM ANTIMONIDES AND GALLIUM ARSENIDE 67-11 M15-80160

ARSENIDES, TRANSPORT PROPERTIES
IONIZATION ENERGY AND IMPURITY BAND CONDUCTION OF SHALLOW DONORS IN N-GALLIUM ARSENIDE 67-04 M16-66510
GALVANOMAGNETIC PROPERTIES OF SURFACE LAYERS IN INDIUM ARSENIDE 67-04 M16-66764
THE STRUCTURE OF THE CONDUCTION BAND AND THE ANISOTROPY OF THE ELECTRON SCATTERING IN N-GAAS 67-04 M16-66766
MECHANISM OF THE GUNN EFFECT 67-04 M16-66780
ON THE ELECTRICAL PROPERTIES OF THE ZNGEAS2 SEMICONDUCTOR COMPOUND 67-04 M16-67107
VARIATION OF DRIFT VELOCITY WITH FIELD IN GAAS 67-04 M16-68074
DETERMINATION OF THE NEGATIVE DIFFERENTIAL MOBILITY ON N-TYPE GALLIUM ARSENIDE USING 8 MM-MICROWAVES 67-05 M16-69376
DIFFUSION AND ELECTRICAL TRANSPORT OF ZINC IN INDIUM ARSENIDE 67-05 M16-69383
NEGATIVE LONGITUDINAL MAGNETORESISTANCE OF N-TYPE INAS 67-06 M16-70874
DEPENDENCE OF CARRIER MOBILITY ON TEMPERATURE IN GAAS CRYSTALS IRRADIATED BY FAST ELECTRONS 67-06 M16-71762
MOBILITY OF MINORITY CARRIES IN DEGENERATE GALLIUM ARSENIDE 67-06 M16-71772
MOBILITY OF MINORITY CARRIERS IN DEGENERATE GALLIUM ARSENIDE 67-06 M16-71926
PROPERTIES OF GALLIUM ARSENIDE CRYSTALS PRODUCED BY LIQUID ENCAPSULATION PULLING 67-07 M16-72920
EFFECTS OF HIGH PRESSURE, UNIAXIAL STRESS AND TEMPERATURE ON THE ELECTRICAL RESISTIVITY OF N-GAAS 67-07 M16-73945
MICROWAVE MEASUREMENT OF DIFFERENTIAL NEGATIVE CONDUCTIVITY DUE TO INTERVALLEY TRANSFER OF HOT ELECTRONS IN N-TYPE GAAS 67-08 M16-74470
INFLUENCE OF HYDROSTATIC COMPRESSION AND OF THE TEMPERATURE ON THE CHARACTERISTICS OF P-N TUNNEL JUNCTIONS IN GAAS 67-09 M15-76776
HALL EFFECT OF N-TYPE GAAS IN HIGH ELECTRIC FIELDS 67-09 M15-77175
PREPARATION AND PROPERTIES OF EPITAXIAL INAS 67-09 M16-78061
GAAS-INSB GRADED-GAP HETEROJUNCTION 67-09 M16-78062
THE CONCENTRATION OF CHARGE CARRIERS IN A SEMICONDUCTOR ILLUMINATED BY A LASER 67-10 M15-79469
TEMPERATURE DEPENDENCE OF PHOTOLUMINESCENCE IN CADMIUM-DOPED EPITAXIAL GAAS 67-10 M16-79161
INTERBAND CARRIER TRANSFER IN GAAS AT HIGH PRESSURES 67-10 M16-79360
NOISE IN CU-GAAS 67-10 M16-79367
ELECTROMAGNETIC AND THERMOMAGNETIC EFFECTS IN CADMIUM ARSENIDE 67-11 M15-80611
DEEP ACCEPTORS IN IRON-DOPED GALLIUM ARSENIDE 67-11 M15-80634
THE ROLE OF ACCEPTORS IN THE LUMINESCENCE OF N-TYPE GAAS 67-11 M15-81677

ARTIFICIAL AGING /METALLURGICAL/
SEE ALSO MARAGING
SECONDARY HARDENING
STRUCTURAL INVESTIGATION OF AGING ATSM AND V92 ALLOYS 67-02 M14-62085
EFFECT OF REST BEFORE ARTIFICIAL AGING ON THE STRUCTURE OF AL-ZN-MG ALLOYS 67-08 M10-75261
EFFECT OF THE TYPE OF COLD WORKING ON THE ARTIFICIAL AGING IN NOTCH IMPACT TESTS ON CONVENTIONAL STRUCTURAL STEELS 67-10 M17-79100
REVERSION AND AGING PROCESSES IN AL-ZN-MG ALLOYS 67-11 M11-80392

ARTIFICIAL WEATHERING TESTS
WEATHERING PIT FORMATION ON SURFACE OF AL SHEET. EFFECT OF DISSOLVED OXYGEN IN PURE WATER 67-05 M18-68869

ARTILLERY
SEE GUNS

ARTILLERY SHELLS
SEE PROJECTILES

ASHES
SEE ALSO FLY ASH

ASHES, CHEMICAL ANALYSIS
THE SPECTROGRAPHIC ANALYSIS OF METALLURGICAL SLAGS AND ASHES 67-04 M19-66908

ASHES, CORROSION ENVIRONMENTS

ASHES
INVESTIGATIONS ON THE HIGH-TEMPERATURE CORROSION OF OIL-FIRED BOILERS 67-02 M18-62017
ASPIRATING THERMOCOUPLES
SEE THERMOCOUPLES
ASTROCERAM
SEE CERAMICS
ASYMMETRY
SURFACE ASYMMETRY MECHANISM FOR FRACTIONAL ORDER PEAKS OBSERVED IN LEED BEAMS FROM METALS 67-10 M16-79545
ATMOSPHERES
SEE BRAZING ATMOSPHERES
CONTROLLED ATMOSPHERES
INERT ATMOSPHERES
OXIDIZING ATMOSPHERES
REDUCING ATMOSPHERES
ATMOSPHERIC CORROSION TESTS
SEE ALSO CORRODKOTE TESTS
STUDIES ON ATMOSPHERIC CORROSION OF STEELS RELATED TO METEROLOGICAL FACTORS IN JAPAN. PT. 3. EFFECTS OF EXPOSURE ANGLES 67-01 M18-57613
ATMOSPHERIC CORROSION OF IRON POWDERS IN THE PRESENCE OF SULFUR DIOXIDE 67-02 M18-61632
LABORATORY COATING TESTS--SHELL INVESTIGATES COATINGS FOR OFFSHORE USE 67-04 M18-66318
FIVE-YEAR EXPOSURE TESTS ON ANODIZED ALUMINIUM IN A SEVERE INDUSTRIAL ATMOSPHERE 67-05 M18-68824
THE COPPER PLATE EXPOSED ON THE TOP OF A CHURCH IN SYDNEY CITY FOR 230 YEARS 67-06 M18-71447
STRESS-CORROSION CRACKING OF COLD-REDUCED AUSTENITIC STAINLESS STEELS 67-06 M18-71591
ATMOSPHERIC CORROSION TEST ALONG DOWN-STREAM OF THE TONE RIVER. PT. 1 67-08 M18-75804
OBSERVATIONS ON THE ATMOSPHERIC OXIDATION OF PLUTONIUM METAL 67-09 M18-76335
THE EFFECT OF 1 PER CENT COPPER ADDITION ON THE ATMOSPHERIC CORROSION OF ROLLED ZINC 67-11 M18-80681
MEASUREMENT OF ATMOSPHERIC FACTORS AFFECTING THE CORROSION OF METALS 67-11 M18-80689
THE EFFECTS OF ATMOSPHERIC FACTORS ON THE CORROSION OF ROLLED ZINC 67-11 M18-80692
THE ATMOSPHERIC CORROSION OF ALUMINIUM AND ITS ALLOYS. RESULTS OF SIX-YEAR EXPOSURE TESTS 67-11 M18-80693
ATMOSPHERIC EXPOSURE OF LIGHT METALS 67-11 M18-80695
ATMOSPHERIC EXPOSURE OF NONFERROUS METALS AND ALLOYS--ALUMINUM SEVEN YEAR DATA 67-11 M18-81124
ATMOSPHERIC CORROSION OF TANTALUM 67-11 M18-81128
ATMOSPHERIC EFFECTS CAN BE CORRELATED 67-11 M18-81360
ATMOSPHERIC CORROSION OF CARBON AND LOW ALLOY CAST STEELS 67-11 M18-81517
PERFORMANCE OF ALUMINUM ALLOYS AT OTHER TEST SITES 67-11 M18-81520
ATMOSPHERIC CORROSION TESTS IN SWEDEN. COPPER AND COPPER ALLOYS 67-11 M18-81521
THE EFFECT OF INITIAL WEATHER CONDITIONS ON THE ATMOSPHERIC CORROSION OF ALUMINUM AND ITS ALLOYS 67-11 M18-81522
ATMOSPHERIC CORROSION TESTS IN SWEDEN. HARD ROLLED ALUMINUM ALLOYS 67-11 M18-81523
CORROSIVENESS OF VARIOUS ATMOSPHERES 67-11 M18-81524
ATMOSPHERIC CORROSION OF COPPER METALS 67-12 M18-81819
ATOMIC BONDS
SEE CHEMICAL BONDS
ATOMIC DIFFUSION
SEE DIFFUSION
ATOMIC MASS
SEE ATOMIC PROPERTIES
ATOMIC NUCLEI
SEE NUCLEI
ATOMIC NUMBER
SEE ATOMIC PROPERTIES
ATOMIC PROPERTIES
SEE ALSO ATOMIC STRUCTURE
ANALYSIS BY ATOMIC ABSORPTION IN METALLURGY 67-03 M16-65453
ELECTRON CONCENTRATION AND METALLIC PROPERTIES 67-03 M17-65339
EQUIATOMIC TRANSITION METAL ALLOYS OF MANGANESE. PT. 5. ON THE MAGNETIC PROPERTIES OF THE PTMN PHASE 67-04 M16-68157
INTERACTION OF ELEMENTS OF THE PERIODIC TABLE 67-07 M14-72510
STABILITY OF ELECTRONIC CONFIGURATIONS 67-07 M16-72509
KNIGHT SHIFTS IN LIQUID BINARY ALLOYS CONTAINING DIVALENT METALS 67-07 M16-73492
HYPERFINE FIELDS IN FE-SI ALLOYS 67-07 M16-73525
PALLADIUM HYPERFINE FIELD IN FERROMAGNETIC PD-FE ALLOYS 67-07 M16-73526
PULSED NMR IN FE 67-07 M16-73527
CRYSTAL DYNAMICS OF COPPER 67-07 M16-73937
MAGNETIC ANOMALY IN THE METALLIC IMPURITY CONDUCTION 67-07 M16-73991
PROPERTIES OF PURE ALUMINUM 67-08 M01-74802
DETERMINATION OF THE LIQUIDUS TEMPERATURE OF CAST IRON ALLOYS 67-08 M06-75102
THE CHARACTERIZATION OF SOLID THIN FILMS BY ELECTRON MICROSCOPY AND DIFFRACTION 67-08 M13-74707
SURFACE MEASUREMENTS USING LOW ENERGY ELECTRON DIFFRACTION 67-08 M13-74708
ATOMIC GEOMETRY OF THE ALKALI HALIDES 67-08 M16-74947
STRENGTH OF THE S-F EXCHANGE INTERACTION IN RARE-EARTH INTERMETALLICS 67-08 M16-75006
INTERNATIONAL ENCYCLOPEDIA OF PHYSICAL CHEMISTRY AND CHEMICAL PHYSICS--TOPIC 11. THE IDEAL CRYSTALLINE STATE. V. 2. ELEMENTARY THEORY OF METALS 67-09 M01-77496
FUTURE DEVELOPMENTS IN THE SPECTROSCOPY OF HIGH-TEMPERATURE MOLECULES 67-09 M16-77502
LATTICE SPACINGS AND EFFECTIVE ATOMIC DIAMETERS IN THE TERNARY SYSTEM TH-CE-ZR 67-10 M16-78669
ELECTRONS, NEUTRONS AND PROTONS IN ENGINEERING 67-11 M01-81101
INTERACTION BETWEEN ELEMENTS IN THE PERIODIC TABLE 67-11 M06-80896
THE MISCIBILITY OF THE TAU BORIDES 67-11 M15-80374
FACTORS AFFECTING THE STABILITY OF METALLIC PHASES 67-11 M16-81102
ATOMIC-SIZE CRITERIA IN CERTAIN INTERMEDIATE PHASES OF SILVER AND GOLD 67-11 M16-81114
GASEOUS INTERMETALLIC MOLECULES 67-11 M16-81116
POSITRON REFLECTION FROM ELEMENTS AND ALLOYS 67-11 M16-81368
SOME FACTORS IN THE THERMODYNAMIC PROPERTIES OF LIQUID ALLOYS 67-12 M15-82670
ATOMIC REACTORS
SEE NUCLEAR REACTORS
ATOMIC SIZE
SEE ATOMIC PROPERTIES
ATOMIC STRUCTURE
COMPOSITION AND ATOMIC ORDER DEPENDENCE OF THE MAGNETIZATION OF NI-MN ALLOYS 67-01 M15-57342
DETERMINATION OF THE NUMBER OF 3D-ELECTRONS IN TRANSITION METALS OF THE IRON GROUP FROM THE COHERENT AND NONCOHERENT SCATTERING OF X RAYS 67-01 M16-57341
THE PROBLEM OF SUPERCONDUCTIVITY MECHANISMS 67-01 M16-57993
PERIODIC DISPLACEMENTS OF ATOMS IN CUAU II 67-02 M13-59064
APPROXIMATE CALCULATION OF ELECTRONIC STRUCTURE OF DISORDERED ALLOYS-APPLICATION TO ALPHA BRASS 67-02 M16-60768
AN APPROXIMATION ANALYSIS OF THE STRUCTURE OF METALS 67-02 M16-62245
THE STRUCTURE AND OCCURRENCE OF THE METASTABLE MONOCLINIC PHASE, ALPHA DOUBLE PRIME B IN URANIUM-MOLYBDENUM ALLOYS 67-03 M13-65850
RESEARCH ON RE3AS7 67-04 M13-66167
ON THE POSITION OF CARBON ATOMS IN CRYSTAL LATTICES OF EPSILON PRIME-, EPSILON- AND KAPPA PRIME-MARTENSITE 67-04 M14-67380
THERMODYNAMICS OF ELECTRONIC STRUCTURE OF NI IN LIQUID FE SOLUTION 67-04 M15-66353
K-SPECTRUM OF METALLIC CA. CONNECTION BETWEEN ELECTRON STRUCTURE OF CA AND TRANSITION METALS OF THE BEGINNING OF THE FIRST PERIOD 67-04 M15-67914
OPTICAL PROPERTIES AND ELECTRONIC STRUCTURE OF AMORPHOUS GERMANIUM 67-04 M16-66747
ABSOLUTE MEASUREMENT OF X-RAY SCATTERING FACTORS OF COPPER 67-04 M16-67478
METALS AND NONMETALS--MEMBERS OF THE SAME FAMILY

67-04 M16-67548
THE PERIODIC TABLE OF ELEMENTS AND PROBLEMS OF METAL CHEMISTRY 67-05 M01-68373
AN ATOMISTIC APPROACH TO THE NATURE AND PROPERTIES OF MATERIALS 67-05 M01-68987
PROPERTIES OF TRANSITION METALS VIEWED FROM THE POINT OF STABLE ELECTRON CONFIGURATIONS 67-05 M15-68707
COMPARING THE STACKING FAULT ENERGY AND ELECTRON STRUCTURE OF A METAL 67-05 M16-68254
THE ELECTRONIC STRUCTURE OF MOLYBDENUM-TUNGSTEN ALLOYS 67-05 M16-68258
BAND STRUCTURE OF A CUPROUS OXIDE CRYSTAL 67-05 M16-68579
ON THE BONDING IN BISMUTH TELLURIDE 67-05 M16-69792
CLUSTERING OF CARBON ATOMS IN ALPHA-IRON 67-06 M14-71963
MAGNETIC PROPERTIES OF ZINC-RICH ZINC-MANGANESE ALLOYS IN THE LIQUID AND SOLID STATE 67-06 M15-71662
STRUCTURE OF COPPER AND NICKEL MELTS NEAR THE FUSION TEMPERATURE 67-06 M16-69973
MAGNETIC, SUPERCONDUCTING, AND OTHER PHASE TRANSITIONS WITHIN THE METALLIC STATE 67-06 M16-71202
ELECTRON STRUCTURE OF ALLOYS OF THE CB-ZR SYSTEM 67-06 M16-71475
PARAMAGNETIC RESONANCE OF IONS OF THE IRON GROUP IN PERICLASE SINGLE CRYSTALS 67-06 M16-71476
STUDY OF THE CHANGE IN ELECTRON STRUCTURE OF NI AND ITS ALLOYS WITH GA AND GE DURING DEFORMATION BY THE METHOD OF ELECTRON-POSITRON ANNIHILATION 67-06 M16-71477
A MOST STRIKING CONFIRMATION OF THE ENGEL METALLIC CORRELATION 67-06 M16-71967
COPPER, COPPER ALLOYS AND THE ELECTRON CONCENTRATION CONCEPT 67-06 M16-71968
A REPLY TO HUME-ROTHERYS NOTE ON THE ENGEL-BREWER THEORY 67-06 M16-71969
COMMENTS ON PAPERS RESULTING FROM HUME-ROTHERYS NOTE-1965 67-06 M16-71970
WURTZITE AND ZINC BLENDE TYPE STRUCTURES 67-07 M13-73671
METALLOCHEMISTRY OF GERMANIDES 67-07 M14-73274
X-RAY SPECTRANALYSIS OF FE-NI ALLOYS 67-07 M15-72580
THE INFLUENCE OF THE FORMATION OF STABLE ELECTRONIC CONFIGURATIONS ON THE PROPERTIES OF CHEMICAL ELEMENTS AND COMPOUNDS 67-07 M16-72508
EVALUATION OF THE ONE-ELECTRON POTENTIAL FOR AL CRYSTALS 67-07 M16-72964
THE ELECTRON STRUCTURE OF THE METAL-LIKE HYDRIDES.. VANADIUM HYDRIDE 67-07 M16-73281
SUPERCONDUCTING TRANSITION TEMPERATURE AND ELECTRONIC STRUCTURE IN THE PSEUDOBINARIES NB3AL-NB3SN AND NB3SN-NB3SB 67-07 M16-73640
ON THE D-BAND STRUCTURE OF BCC FE 67-07 M16-73995
LATTICE DYNAMICS OF ALUMINUM 67-07 M16-74016
STUDY OF LONG PERIOD ORDERED ALLOYS BY X-RAY DIFFRACTION 67-08 M13-74415
LOCAL ATOMIC ARRANGEMENTS STUDIED BY X-RAY DIFFRACTION 67-08 M13-75337
LOCAL ORDER IN SOLID ALLOYS. PT. 1 67-08 M13-75338
EXAMPLES OF APPLICATIONS OF LINE BROADENING 67-08 M13-75344
EFFECT OF SEGREGATION AT DISLOCATIONS ON THE SHAPE OF THE NMR LINE 67-08 M15-75245
ON THE ELECTRONIC STRUCTURE OF BISMUTH AND ITS DILUTE ALLOYS 67-08 M16-74430
CRYSTAL STRUCTURE REFINEMENTS OF THE B 20 AND MONOCLINIC --COGE-TYPE-- POLYMORPHS OF FEGE 67-09 M13-76384
CERTAIN CHARACTERISTICS OF INTERMOLECULAR INTERACTION IN ALLOYS OF GROUPS IVA-VIA METALS 67-09 M14-77294
HALL EFFECT AND ELECTRONIC STRUCTURE OF VARIOUS ACTINIDE METALS 67-09 M16-76319
X-RAY SPECTRAL INVESTIGATION OF THE ELECTRONIC STRUCTURE OF THE ELEMENTS OF THE SECOND LARGE PERIOD 67-09 M16-76780
ELECTRONIC STRUCTURE IN DILUTE ALLOYS 67-09 M16-77522
INORGANIC CHEMISTRY. A GUIDE TO ADVANCED STUDY 67-10 M01-79615
X-RAY STUDIES IN THE SYSTEM THNI5-XALX 67-10 M13-78670
OXIDATION OF THE --112-- FACE OF TUNGSTEN 67-10 M13-79550
LEED STUDIES OF OXYGEN ABSORPTION AND OXIDE FORMATION ON AN --011-- IRON SURFACE 67-10 M14-79567
PIEZO-OPTICAL CONSTANTS, DEFORMATION POTENTIALS, AND THE ELECTRONIC STRUCTURE OF COPPER 67-10 M15-80013
SIMPLE METALS AND PSEUDOPOTENTIAL THEORY 67-10 M16-78301
EXPERIMENTAL DETERMINATION OF ELECTRONIC STRUCTURE OF METALS 67-10 M16-78302
VALENCE AND ALLOY STRUCTURE 67-10 M16-78303
THE ELECTRONIC STRUCTURES OF TRANSITION AND NOBLE METALS 67-10 M16-78304
ELECTRONIC STRUCTURE AND PROPERTIES OF PALLADIUM AND ITS ALLOYS 67-10 M16-78723
N. M. R. INVESTIGATION OF THE ATOMIC AND ELECTRONIC STRUCTURE OF VANADIUM AND NIOBIUM CARBIDES 67-10 M16-79117
ELECTRONIC BAND STRUCTURE OF TELLURIUM 67-10 M16-79357
ELECTRONIC STRUCTURE OF ZIRCONIUM 67-10 M16-79416
THE ANOMALOUS SURFACE STRUCTURE OF GOLD 67-10 M16-79548
ESTIMATE OF THE NUMBER OF ELECTRONS IN THE VALENCE BAND FROM X-RAY EMISSION SPECTRA 67-11 M13-80180
LATTICE SPACINGS AND EFFECTIVE ATOMIC DIAMETERS IN THE TERNARY SYSTEMS FORMED BY TH AND CE WITH Y, LA, GD AND ER, AND BY TH, PR AND Y 67-11 M13-80308
THE CRYSTAL STRUCTURE OF THE M PHASE, NB-NI-AL 67-11 M13-80489
AN X-RAY DIFFUSE SCATTERING MEASUREMENT OF LOCAL LOCAL ORDER IN A PD-PT ALLOY 67-11 M14-80183
DIFFUSION MECHANISMS IN ORDERED BODY-CENTERED CUBIC ALLOYS 67-11 M14-81590
ELECTRONIC AND IONIC CONDUCTIVITY IN NB2O5 67-11 M15-81690
THE STRUCTURE OF MOLTEN BI AT 325 AND 750 C 67-11 M16-80870
THE ROLE OF STABLE ELECTRON CONFIGURATIONS IN THE ORIGIN OF THE PROPERTIES OF CHEMICAL ELEMENTS AND COMPOUNDS 67-11 M16-80894
STABILITY OF ELECTRON CONFIGURATIONS 67-11 M16-80895
VIEWPOINTS OF STABILITY OF METALLIC STRUCTURES 67-11 M16-81104
SPACE LIMITATIONS ON THE GEOMETRY OF THE CRYSTAL STRUCTURES OF METALS AND INTERMETALLIC COMPOUNDS 67-11 M16-81106
SOME ENERGY MEASUREMENTS RELATED TO STRUCTURE OF METALLIC LIQUIDS 67-11 M16-81570
DOUBLY-ASSOCIATED CATION-VACANCY CENTERS IN MAGNESIUM OXIDE 67-11 M16-81683
STUDY OF THE STRUCTURE OF METAL SURFACES BY LOW-ENERGY ELECTRON DIFFRACTION 67-12 M13-82352
PROPERTIES OF TRANSITION METALS FROM THE POINT OF VIEW OF THE CONCEPT OF STABLE ELECTRONIC CONFIGURATIONS 67-12 M15-82683
ELECTRON STRUCTURES OF ALLOYS OF THE SYSTEM NB-ZR 67-12 M16-82796
PARAMAGNETIC RESONANCE OF IONS OF THE IRON GROUP IN SINGLE CRYSTALS OF PERICLSE 67-12 M16-82797
STUDY OF THE CHANGE OF THE ELECTRONIC STRUCTURE OF NICKEL AND ITS ALLOYS WITH GA AND GE IN DEFORMATION BY THE POSITRON-ELECTRON ANNIHILATION METHOD 67-12 M16-82798
ATOMIC PERFECTION AND FIELD EMISSION FROM TUNGSTEN --110-- SURFACE 67-12 M16-83013

ATOMIC STRUCTURE, PRESSURE EFFECTS
ELECTRONIC STRUCTURE OF CA, SR, AND BA UNDER PRESSURE 67-06 M16-69907
PHASE RELATIONS, RESISTIVITY, AND ELECTRONIC STRUCTURE OF CESIUM AT HIGH PRESSURES 67-10 M16-79414

ATOMIC WEIGHT
SEE ATOMIC PROPERTIES

ATOMIZATION
SEE ATOMIZING

ATOMIZING
STEEL STRAIGHT FROM THE BLAST FURNACE 67-02 M04-61108
STUDY OF FINELY-DISPERSED GRANULATED FERROSILICON 67-02 M04-62102
METHOD FOR PRODUCING DISPERSED FERROSILICON

ATOMIZING
POWDER 67-02 M09-60093
REFINING STEEL BY ATOMIZATION 67-03 M04-65436
OXYGEN ATOMIZES MOLTEN IRON IN SPRAY STEELMAKING PROCESS 67-03 M04-65485
CONTINUOUS STEELMAKING FROM ORE TO BILLET 67-03 M04-65624
THE ATOMIZING OF MELTS 67-04 M09-68123
DEVELOPMENTS IN ELECTROSTATIC SPRAY PAINTING AND FLUIDIZED BED COATING 67-05 M12-68825
STUDY OF THE FLOW AND DISINTEGRATION OF A METAL STREAM INTO DROPLETS 67-08 M04-74345
A STATISTICAL INTERPRETATION OF METAL ATOMIZATION 67-08 M09-75388
THE MECHANISM OF BREAKING THE LIQUID METAL STREAM BY A GAS JET 67-08 M09-75423
MANUFACTURE AND USES OF SILVER POWDER 67-08 M09-75635
PREPARATION OF FINE METAL PARTICLES BY MEANS OF EVAPORATION IN HELIUM GAS 67-08 M09-75933
ATOMIZING OF BRONZE AND PROPERTIES OF THE POWDER PRODUCED 67-12 M09-82204
ATTACHING
SEE JOINING
ATTACK /CHEMICAL/
SEE CHEMICAL ATTACK
ATTENUATION
AMPLITUDE-DEPENDENT ULTRASONIC ATTENUATION IN NORMAL AND SUPERCONDUCTING LEAD 67-01 M16-57591
ELECTRONIC CONTRIBUTION TO THE NORMAL STATE ULTRASONIC ATTENUATION IN INDIUM 67-01 M16-57958
THEORY OF ULTRASONIC ATTENUATION BY NEUTRAL DONORS IN GERMANIUM 67-01 M16-57960
MAGNETOACOUSTIC ATTENUATION IN BISMUTH 67-02 M15-59475
MAGNETOACOUSTIC ATTENUATION OF CIRCULARLY POLARIZED ULTRASOUND IN SN, AL, AND SB 67-02 M15-60767
AMPLITUDE-DEPENDENT ULTRASONIC ATTENUATION IN SUPERCONDUCTORS 67-02 M16-60528
ATTENUATION OF LAMB WAVES AT ULTRASONIC FREQUENCIES IN STEEL AT HIGH TEMPERATURES 67-02 M19-60260
ULTRASONIC ATTENUATION IN CADMIUM SULFIDE FROM 1.8 TO 300 K 67-03 M15-65868
EFFECT OF STRAIN AND IMPURITIES ON THE ULTRASONIC ATTENUATION IN SUPERCONDUCTING TIN 67-04 M16-66180
ULTRASONIC ATTENUATION IN A PURE TYPE-2 SUPERCONDUCTOR NEAR NC2 67-04 M16-66660
MAGNETO-ACOUSTIC RESONANCES IN ANTIMONY 67-04 M16-66797
DETERMINATION OF THE ENERGY BAND PARAMETERS OF BISMUTH BY GIANT QUANTUM ATTENUATION OF SOUND WAVES 67-04 M16-66799
ELECTRONIC ACOUSTIC ATTENUATION FOR --001-- LONGITUDINAL WAVE PROPAGATION IN COPPER 67-05 M16-69374
ANISOTROPY OF THE ULTRASONIC ATTENUATION IN METALS 67-05 M16-69757
AMPLITUDE DEPENDENCE OF ULTRASONIC ATTENUATION IN SINGLE-CRYSTAL COPPER 67-06 M16-71099
EFFECTS OF STRESS ON THE ULTRASONIC ATTENUATION IN A NICKEL SINGLE CRYSTAL 67-06 M17-71289
RECOVERY OF ULTRASONIC ATTENUATION IN COPPER SINGLE CRYSTALS FOLLOWING SMALL PLASTIC DEFORMATION 67-07 M14-72637
ULTRASONIC ATTENUATION IN NORMAL AND SUPERCONDUCTING LEAD--ELECTRONIC DAMPING OF DISLOCATIONS 67-07 M16-73817
LONGITUDINAL MAGNETOACOUSTIC EFFECT IN ALUMINUM 67-07 M16-73941
DAMPING OF OSCILLATIONS IN DIFFERENT METALS 67-08 M17-74961
MAGNESIUM ALLOYS WHICH ABSORB LITTLE ULTRASOUND 67-09 M16-76712
ATTENUATION OF TRANSVERSE ULTRASOUND IN COPPER 67-09 M16-77160
AMPLITUDE-INDEPENDENT ULTRASONIC ATTENUATION IN SUPERCONDUCTING LEAD 67-10 M16-79150
FREQUENCY EFFECT IN THE ULTRASONIC ATTENUATION IN NIOBIUM IN THE MIXED STATE 67-11 M16-80191
TEMPERATURE DEPENDENCE OF THE ULTRASONIC ATTENUATION IN AL2O3 67-11 M17-80777
VISCOUS ULTRASONIC ATTENUATION IN METALS 67-11 M17-81092
ATTENUATION, STRESS EFFECTS
ULTRASONIC LOSS MEASUREMENTS DURING ELASTIC-PLASTIC DEFORMATION AT THE YIELD POINT 67-06 M17-71174
ATTENUATION COEFFICIENTS
SEE ATTENUATION
AUSFORMING
DETERMINATION OF THE AUSFORMING CONDITIONS OF METALS IN THE PLASTIC STATE 67-01 M10-58179
METHOD OF STRENGTHENING STRUCTURAL ALLOY STEEL 67-01 M17-57129
THE IMPROVEMENT IN MECHANICAL PROPERTIES BY THERMO-MECHANICAL TREATMENT AND ITS APPLICATION TO TOOL MATERIALS 67-01 M17-57218
INFLUENCE OF AUSFORMING ON HARDNESS OF 18-4-1 HIGH SPEED STEEL 67-01 M17-57499
HIGH-TEMPERATURE THERMOMECHANICAL WORKING OF TITANIUM VT15 ALLOY 67-02 M10-58900
THERMOMECHANICAL TREATMENT OF HEAT-RESISTANT MARTENSITIC STEELS 67-02 M10-60293
ON THE THERMOMECHANICAL TREATMENT OF STEEL 67-02 M10-60620
EFFECT OF THERMOMECHANICAL TREATMENT ON THE SPECIFIC LOSSES, COERCIVE FORCE AND MAGNETOSTRICTION OF STEEL E330 67-02 M15-61936
STUDY OF THE STRUCTURAL AND MECHANICAL CHARACTERISTICS OF COPPER AFTER AUSFORMING 67-02 M17-58897
INVESTIGATION OF THE HEAT RESISTANCE OF AT3 TITANIUM ALLOY AFTER CONVENTIONAL HEAT TREATMENT AND AFTER AUSFORMING 67-02 M17-59642
INCREASING THE HIGH-TEMPERATURE STRENGTH OF NICKEL BY HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT 67-02 M17-60296
APPLICATION OF INDUCTION HEATING AND THERMOMECHANICAL TREATMENT IN PRODUCTION OF HIGH-STRENGTH WIRE 67-02 M17-61221
THE INHERENCE OF THE PROPERTIES OF THERMOMECHANICALLY TREATED STEEL 67-02 M17-61931
STRENGTHENING OF STEEL BY THERMOMECHANICAL TREATMENTS 67-03 M08-65332
THE STRENGTH OF FERROUS MARTENSITES 67-03 M17-65330
STRENGTHENING OF ALLOY STEELS BY AUSFORMING 67-04 M07-67564
EFFECT OF CARBON CONTENT ON THE MECHANICAL PROPERTIES OF STRUCTURAL CR-NI-MO STEEL AFTER AUSFORMING 67-04 M08-67846
STRUCTURAL CHANGES OCCURING DURING THERMOMECHANICAL TREATMENT OF STEEL AND THEIR INFLUENCE ON THE MECHANICAL PROPERTIES 67-04 M08-67953
AUSROLLING RAIL STEEL 67-04 M10-67617
PRELIMINARY THERMOMECHANICAL PROCESSING OF CONSTRUCTION STEELS 67-04 M17-66092
EFFECT OF PLASTIC DEFORMATION IN AUSTENITIC STATE ON TEMPER BRITTLENESS OF RAIL STEEL 67-04 M17-67618
STRENGTH AND DUCTILITY OF ALLOYED STEELS AFTER LOW TEMPERATURE THERMOMECHANICAL TREATMENT 67-04 M17-67963
SURFACE AUSFORMING --ON 40KH STEEL-- 67-05 M17-68202
CONTROLLED THERMOMECHANICAL STRENGTHENING AND RECRYSTALLIZATION OF HIGH-CARBON STEELS 67-05 M17-69012
THE INFLUENCE OF AUSFORMING ON THE STRESS CORROSION SUSCEPTIBILITY OF SOME HIGH-STRENGTH STEELS 67-05 M18-69599
RECRYSTALLIZATION DURING AUSFORMING 67-06 M08-70359
HIGH-TEMPERATURE AUSFORMING OF ST. 3 CARBON STEEL 67-06 M10-70064
COMPARATIVE EFFICIENCY OF SOME AUSFORMING METHODS 67-06 M10-70067
INFLUENCE OF AUSFORMING AND ALLOYING ON STRUCTURE AND PROPERTIES OF SILICON SPRING STEEL 67-06 M10-70071
STRUCTURES AND STRENGTH OF AUSFORMED STEEL 67-06 M13-71085
POLYGONIZATION OF DEFORMED AUSTENITE AT LOW-TEMPERATURE THERMOMECHANICAL TREATMENT AND ITS EFFECT ON PROPERTIES OF HIGH-STRENGTH STEELS 67-06 M14-70065
INFLUENCE OF AUSROLLING ON MECHANICAL PROPERTIES OF LOW-CARBON AND LOW-ALLOY STEELS 67-06 M17-70063
INFLUENCE OF AUSROLLING BY TWISTING ON BRITTLE FAILURE OF HIGH-CARBON STEELS 67-06 M17-70066

PROPERTIES OF 55KHGR STEEL AFTER AUSFORMING AND REPEATED QUENCHING 67-06 M17-70070
INFLUENCE OF DEFORMATION TEMPERATURE DURING AUSFORMING ON MECHANICAL PROPERTIES AND DUCTILE BRITTLE TRANSITION IN STRUCTURAL ALLOY STEEL 67-06 M17-70072
RESIDUAL STRESSES AFTER THERMOMECHANICAL WORKING ASSOCIATED WITH IRREGULAR PLASTIC DEFORMATION 67-06 M17-70108
EFFECT OF HIGH-TEMPERATURE THERMOMECHANICAL WORKING ON THE CYCLIC BEHAVIOR OF HIGH-CARBON STEELS 67-06 M17-70109
INCREASED RELIABILITY OF A HIGH-STRENGTH STEEL THROUGH THERMAL-MECHANICAL TREATMENTS 67-06 M17-71081
HEAT AND MECHANICAL TREATMENT OF AIR-HARDENING STEEL BARS 67-06 M17-71104
COMMERCIAL PRODUCTION OF PROFILES OF 40 STEEL WITH AUSROLLING 67-07 M10-73788
AUSFORGING GIVES ADDED STRENGTH TO STEEL 67-08 M08-76180
X-RAY INVESTIGATION OF SURFACE LAYERS OF 9KH STEEL STRENGTHED
STRENGTHENED BY THERMOMECHANICAL SURFACE TREATMENT 67-08 M10-76025
THERMOMECHANICAL TREATMENT OF BORING CHISELS 67-08 M10-76041
THERMOMECHANICAL TREATMENT OF METAL DURING VIBRO ARC DEPOSIT WELDING 67-08 M11-74371
MICROSTRUCTURAL CHARACTERISTICS OF HIGH-TEMPERATURE FATIGUE FRACTURE OF 40KH12N8G8MV AUSTENITIC STEEL, SUBJECTED TO AUSFORMING 67-08 M13-74639
STRUCTURE AND HARDNESS OF AUSFORMED OR DEFORMED FERROUS MARTENSITES 67-08 M17-75151
INVESTIGATION OF STEELS SUSCEPTIBLE TO SECONDARY HARDENING AND HARDENING BY THERMOMECHANICAL TREATMENT 67-08 M17-76027
THE EQUIPMENT, TECHNIQUES AND USES OF THERMO-MECHANICAL TREATMENTS 67-09 M07-77712
THERMOMECHANICAL TREATMENT FOR ISOTROPIC STRUCTURE 67-09 M08-76441
INDUSTRIAL PRODUCTION OF ROLLED SECTIONS OF 40 STEEL WITH THERMOMECHANICAL TREATMENT 67-09 M10-76551
THERMOMECHANICAL TREATMENT OF STEEL DURING ISOTHERMAL TRANSFORMATION OF SUPER-COOLED AUSTENITE 67-09 M10-77422
INFLUENCE OF AUSFORMING ON HARDNESS OF 18-4-1 HIGH SPEED STEEL 67-09 M17-78140
HIGH-STRENGTH STEELS. PT. 1 67-10 M01-78853
THE EFFECT OF THERMOMECHANICAL TREATMENTS ON THE PROPERTIES AND STRUCTURES OF ALLOY STEELS 67-10 M07-78394
SOME OBSERVATIONS ON AUSFORMING OF HIGH SPEED TOOL STEEL 67-10 M07-78605
HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT OF ST. 3 STEEL 67-10 M08-78810
COMPARATIVE EFFECTIVENESS OF CERTAIN METHODS OF THERMOMECHANICAL HARDENING OF STEELS 67-10 M08-78813
EFFECT OF THERMOMECHANICAL TREATMENT AND ALLOYING ON THE STRUCTURE AND PROPERTIES OF SILICON SPRING STEELS 67-10 M08-78817
RAIL STEEL STRENGTHENED BY THERMOMECHANICAL TREATMENT 67-10 M08-78937
POLYGONIZATION DEFORMATION OF AUSTENITE BY LOW-TEMPERATURE THERMOMECHANICAL TREATMENT AND ITS EFFECT ON THE PROPERTIES OF HIGH-STRENGTH STEEL 67-10 M14-78811
EFFECT OF THERMOMECHANICAL TREATMENT ON THE MECHANICAL PROPERTIES OF LOW-CARBON AND LOW-ALLOY STEELS 67-10 M17-78809
EFFECT OF HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT ON THE RESISTANCE TO RUPTURE OF HIGH-CARBON STEELS STRAINED BY TORSION 67-10 M17-78812
PROPERTIES OF 55KHGR STEEL AFTER HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT AND REPEATED QUENCHING 67-10 M17-78816
EFFECT OF THE TEMPERATURE OF DEFORMATION DURING THERMOMECHANICAL TREATMENT ON THE MECHANICAL PROPERTIES AND COLD BRITTLENESS THRESHOLD OF STRUCTURAL ALLOY STEEL 67-10 M17-78818
THE EFFECTS OF THERMOMECHANICAL TREATMENT ON THE MECHANICAL STRENGTH OF SPRING STEELS AFTER THEY HAVE BEEN USED 67-10 M17-78953
FLOW STRENGTH AND FRACTURE TOUGHNESS OF 9 NI 4 CO STEEL AS AFFECTED BY STRAIN TEMPERING AND AUSFORMING 67-10 M17-79687
IMPROVING THE MECHANICAL PROPERTIES OF 45KHN4 STEEL BY HIGH-TEMPERATURE HEAT AND MECHANICAL TREATMENT AND COLD DEFORMATION 67-10 M17-79737
PRECISION COMPONENTS DEMAND SPECIALIZED HEAT TREATMENT 67-11 M10-81133
THE APPLICATION OF THERMOMECHANICAL TREATMENTS TO STEELS 67-11 M17-80685
THE EFFECTS OF AUSFORMING ON THE MECHANICAL PROPERTIES OF 0.2 PER CENT C-3 PER CENT NI-2 PER CENT MO STEEL 67-11 M17-80947
NEW STRENGTHS FOR OLD METALS 67-12 M01-83002
STUDIES ON FORMING TECHNIQUES AT THE FREIBERG ACADAMY 67-12 M07-81962
INVESTIGATION OF THE EFFECT OF THE SURFACE TEMPERATURE AND ROLLING SPEED DURING LOW-TEMPERATURE AUSROLLING ON THE MECHANICAL PROPERTIES OF 45KHNT AND 60KHNYU STEEL 67-12 M07-83328
PRELIMINARY THERMOMECHANICAL TREATMENT OF CARBON STEEL 67-12 M08-82413
THE CAUSES OF INCREASED STRENGTH DUE TO AUSFORMING TREATMENT 67-12 M08-83348
THE HIGH-TEMPERATURE HEAT AND MECHANICAL TREATMENT OF CARBON STEEL 67-12 M08-83385
EFFECT OF THERMOMECHANICAL TREATMENT ON MECHANICAL PROPERTIES OF CR-NI-MO AUSTENITIC STAINLESS STEEL 67-12 M10-83118
WARM WORKING TREATMENT OF THE DEPOSIT DURING VIBRO-ARC HARDFACING 67-12 M11-82244
INFLUENCE OF THERMOMECHANICAL TREATMENT ON STRUCTURE OF THE CHROMANSIL-TYPE STEELS 67-12 M14-83543
HIGH TEMPERATURE THERMOMECHANICAL TREATMENT OF CARBON STEELS 67-12 M17-82151
THE EFFECT OF PREANNEALING ON THE HIGH-TEMPERATURE STRENGTH OF NICKEL AFTER THERMOMECHANICAL TREATMENT 67-12 M17-82344
AUSFORMING STUDY OF THE WORK HARDENING OF METASTABLE AUSTENITE 67-12 M17-83495

AUSROL TEMPERING
SEE AUSROLLING

AUSROLLING
HIGH-TEMPERATURE SURFACE AUSROLLING --ON AN EXAMPLE OF 9KH STEEL-- 67-01 M10-57633
INVESTIGATION OF THE EFFECT OF HIGH-TEMPERATURE AUSROLLING ON THE MECHANICAL PROPERTIES OF SPRING STEEL 67-01 M17-58032
THERMOMECHANICAL PROCESSING OF RAIL STEEL 67-02 M10-62271
RECRYSTALLIZATION OF MANGANESE AND NICKEL STEELS DURING AUSFORMING 67-02 M14-61989
HIGH-TEMPERATURE THERMOMECHANICAL PROCESSING OF DRILLING PIPES MADE FROM 38KHNM ALLOYED STEEL 67-02 M17-62153
STRENGTH AND DUCTILITY OF ALLOYED STEELS AFTER LOW TEMPERATURE THERMOMECHANICAL TREATMENT 67-04 M17-67963
EFFECT OF THE NUMBER OF ROLLING PASSES ON THE STRENGTH, DUCTILITY, MICROSTRUCTURE AND FINE CRYSTALLINE STRUCTURE OF SILICON STEELS AS A RESULT OF HIGH-TEMPERATURE AUSROLLING 67-05 M17-69270
STRENGTHENING OF HIGH-MANGANESE STEEL BY COMBINED THERMOMECHANICAL TREATMENT 67-06 M08-70117
INHERITANCE OF DEFECTS BY MARTENSITE IN THE PROCESS OF AUSFORMING 67-06 M14-71339
METALWORKING PROCESS DEVELOPMENT 67-07 M07-72748
HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT OF STEEL 55S2 --AISI 9255-- ADDITIONALLY ALLOYED WITH CARBIDE-FORMING ELEMENTS 67-07 M10-73005
STRENGTHENING AUSTENITIC MANGANESE STEEL BY HEAT TREATMENT AND AUSROLLING 67-08 M04-74586
HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT OF THE BETA-ALLOY OF THE TI-MO-CR-FE-AL SYSTEM 67-08 M17-74962
INCREASE OF THE CREEP RESISTANCE OF MARTENSITIC-FERRITIC STEEL BY THERMOMECHANICAL TREATMENT 67-08 M17-74963
THERMAL HARDENING OF REINFORCING RODS AT THE MAKEEVKA METALLURGICAL WORKS 67-09 M10-76861
AUSROLLING RAIL STEEL CONTAINING HIGHER AMOUNTS OF MANGANESE AND SILICON 67-10 M07-79330
RECRYSTALLIZATION OF MANGANESE AND NICKEL STEELS DURING HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT 67-10 M14-78846

AUSROLLING
RELAXATION STABILITY OF 30KHGSA STEEL 67-10 M17-79325
AUSTEMPERING
SEE ALSO PATENTING /METALLURGICAL/
SHORT CUTTING OF SPHEROIDIZING DURATION OF BALL BEARING STEEL BY AUSTEMPERING ANNEALING 67-02 M10-59154
FRICTION HARDENING GIVES SUPERHARD STEELS 67-03 M10-65479
A SALT BATH SYSTEM FOR MAKING SPRING BARS 67-03 M10-65980
MECHANICAL PROPERTIES OF SOME AUSTEMPERED STEEL TYPES USED FOR PLOWSHARES 67-04 M17-67822
AUSTEMPERING OF SPRINGS IN MOLTEN SALT BATHS FITTED WITH CONVEYOR BELTS 67-07 M10-72484
SOME SPECIFIC DATA ON THE USE OF AISI 52100 STEEL FOR TOOLING APPLICATIONS 67-10 M10-79519
ISOTHERMAL TREATMENTS 67-12 M10-81939
AUSTENITE
SEE ALSO RETAINED AUSTENITE
EFFECT OF MANGANESE AND SILICON ON TRANSFORMATION OF SUPERCOOLED AUSTENITE IN COBALT STEEL 67-01 M14-57188
ISOTHERMAL TRANSFORMATION OF AUSTENITE IN ANNEALED MAGNESIUM IRON 67-01 M14-57468
PROBLEM OF THE FORMATION OF AUSTENITE DURING ELECTRIC HEATING OF HYPEREUTECTOID STEELS 67-02 M14-58892
THE MUTUAL EFFECTS OF TRANSFORMATION REACTIONS IN HEAT TREATMENTS CARRIED OUT IN A FLUCTUATING TEMPERATURE FIELD 67-02 M14-59915
STUDY OF THE ISOTHERMAL TRANSFORMATIONS IN 17 PER CENT CR STAINLESS STEELS. PT. 3. INFLUENCE OF ALLOYING ELEMENTS OTHER THAN CARBON AND NITROGEN 67-02 M14-61124
DISORIENTATIONS IN AN IRON-NICKEL ALLOY AFTER THE DIRECT AND REVERSE MARTENSITIC TRANSFORMATIONS 67-04 M13-67639
METALLOGRAPHIC ATLAS OF IRON, STEELS AND CAST IRONS. V. 2. STRUCTURE OF STEELS 67-04 M13-67734
EFFECT OF THERMAL CYCLING ON THE TRANSFORMATION OF AUSTENITE IN MAGNESIUM CAST IRON 67-04 M14-66901
TRANSFORMATION OF AUSTENITE DURING CONTINUOUS COOLING 67-04 M14-67615
SURFACE MARTENSITE ON PLASTICALLY DEFORMED AUSTENITE 67-04 M14-67755
EFFECT OF MANGANESE ON THE STRUCTURE AND PROPERTIES OF NONMAGNETIC STAINLESS STEELS 67-04 M15-67974
STRUCTURE AND PROPERTIES OF KH16N6 --EP288-- STEEL 67-04 M17-67983
STRUCTURAL INHERITANCE IN CASE HARDENED ALLOYED STEELS 67-05 M13-68374
INVESTIGATION OF THE PROCESSES OF DECOMPOSITION OF AUSTENITE IN 10KH8 CHROMIUM STEEL AT SUBCRITICAL TEMPERATURES 67-05 M14-68204
CRYSTAL STRUCTURAL RELATIONSHIPS BETWEEN AUSTENITE AND CARBIDE PHASES IN AGED, AUSTENITIC STEEL 67-06 M13-72348
ISOTHERMAL AUSTENITE TRANSFORMATIONS IN ANNEALED MAGNESIUM-TREATED IRON 67-06 M14-70756
PECULARITIES IN THE STRUCTURE OF COLD WORKED AND ANNEALED MANGANESE STEEL 67-07 M13-73124
THE EFFECT OF SMALL NB ADDITIONS ON THE RECRYSTALLIZATION OF AUSTENITE AFTER HOT WORKING 67-07 M14-72529
STABILITY OF AUSTENITE IN STAINLESS STEEL AND ITS SUSCEPTIBILITY TO CORROSION CRACKING 67-07 M18-74195
DISLOCATION STRUCTURE OF DEFORMED AUSTENITE AND ITS INHERITANCE BY MARTENSITE 67-08 M13-76023
AUSTENITIC IRON 67-08 M17-74877
APPRAISAL OF METHODS OF SHOWING UP AUSTENITE GRAIN 67-09 M13-76802
THERMODYNAMICS OF BINARY FE-C AUSTENITE AND CEMENTITE 67-09 M15-77714
GRAIN-COARSENING OF AUSTENITE 67-10 M14-78333
HIGH-TEMPERATURE MICROSCOPE EXAMINATION OF AUSTENITE GRAIN GROWTH IN HARDENABLE STEELS 67-10 M14-78654
CRYSTALLOGRAPHY OF THE PRECIPITATION OF FERRITE ON AUSTENITE GRAIN BOUNDARIES IN A CO PLUS 20 PER CENT FE ALLOY 67-11 M13-81588
EFFECTS OF PRELIMINARY HEAT TREATMENT ON THE SIZE OF INCLUSIONS AND THE STABLE AUSTENITE GRAIN SIZE 67-11 M14-80966
NEW METHODS OF DETERMINING RESIDUAL AUSTENITE IN STEELS 67-11 M19-80240
MIGRATION OF AUSTENITIC GRAIN BOUNDARIES IN MEDIUM-CARBON HYPOEUTECTOID STEEL DEOXIDIZED WITH ALUMINUM 67-12 M13-82484
THE CRYSTALLOGRAPHY OF THE REVERSE MARTENSITIC TRANSFORMATION IN AN IRON-NICKEL ALLOY 67-12 M13-82761
THEORY OF THE INFLUENCE OF PRESSURE ON AUSTENITE DECOMPOSITION IN HYPO-EUTECTOIDAL STEEL 67-12 M14-82411
PREFERRED TRANSFORMATION IN STRAIN-HARDENED AUSTENITE 67-12 M14-82964
REDUCTION IN THE MARTENSITE GRAIN SIZE IN AN FE-NI-CR ALLOY AFTER REAUSTENITIZATION 67-12 M14-83440
INFLUENCE OF REFINING OF AUSTENITIC GRAINS ON THE PROPERTIES OF LOW CARBON STEELS AFTER LOW-TEMPERATURE TEMPER 67-12 M17-83537
AUSTENITE, AGING /METALLURGICAL/
A STUDY OF STRAIN AGING IN AUSTENITE 67-02 M17-60639
AUSTENITE, ALLOYING EFFECTS
DISTRIBUTION OF NICKEL AND CHROMIUM IN VERY HARD ROLL IRON 67-09 M04-77373
EFFECTS OF MANGANESE ON THE STRUCTURE AND PROPERTIES OF AUSTENITIC STEEL 67-10 M13-78925
EFFECTS OF TITANIUM ON THE AUSTENITIC STRUCTURE OF RAIL STEEL 67-10 M14-78941
AUSTENITE, AUSROLLING
INHERITANCE OF DEFECTS BY MARTENSITE IN THE PROCESS OF AUSFORMING 67-06 M14-71339
AUSTENITE, COMPOSITION EFFECTS
INTRODUCTION TO THE METALLURGY OF CAST HEAT-RESISTING ALLOYS 67-06 M17-70534
AUSTENITE, CRYSTAL GROWTH
INFLUENCE OF FERRITE ON CRYSTALLIZATION OF AUSTENITIC DEPOSIT WELDED METAL AND FORMATION OF HOT CRACKS 67-06 M11-71641
INFLUENCE OF FERRITE ON THE CRYSTALLISATION OF AUSTENITIC WELD METAL AND THE FORMATION OF HOT CRACKS DURING WELDING 67-10 M11-79608
AUSTENITE, DECOMPOSITION
A METHOD OF STUDYING THE TRANSFORMATION OF AUSTENITE UNDER WELDING CYCLE CONDITIONS 67-04 M14-66440
A PROCEDURE FOR STUDYING THE AUSTENITE TRANSFORMATION DURING WELDING CYCLES 67-07 M14-72699
AUSTENITE, DIFFUSION
SOLUBILITY OF NB PRECIPITATES IN AUSTENITE, IN THE CASE OF LOW-CARBON STRUCTURAL STEELS WITH SMALL NB QUANTITIES 67-04 M14-66352
AUSTENITE, FERROMAGNETISM
SUPERPARAMAGNETISM OF AUSTENITIC STEELS 67-02 M15-61181
AUSTENITE, GRAIN GROWTH
MICROMETALLURGY OF AUSTENITIC GRAIN SIZE CONTROL OF STEEL. PT. 2. VARIATION OF ALN PRECIPITATION WITH ALUMINIUM 67-11 M14-80404
AUSTENITE, GRAIN SIZE
X-RAY DIFFRACTION MICROSCOPY STRUCTURAL STUDY OF THE AUSTENITE OF FE-NI ALLOYS IN THE DIRECT AND REVERSE MARTENSITIC TRANSFORMATIONS 67-01 M13-57351
STUDY ON THE AUSTENITE GRAIN SIZE AND ITS COARSENING BEHAVIOR OF ALUMINUM KILLED STEEL 67-02 M14-60156
INHIBITION OF AUSTENITIC GRAIN GROWTH BY ALUMINIUM NITRIDE 67-06 M14-71335
AUSTENITE, HEATING EFFECTS
STUDY OF AUSTENITE FORMATION. THE CASE OF 15CDV6 STEEL 67-12 M14-83494
AUSTENITE, MAGNETIC PROPERTIES
STUDY OF THE MAGNETIC SUSCEPTIBILITY OF MARTENSITIC EPSILON-PRIME AND EPSILON PHASES IN MANGANESE STEELS 67-11 M15-80723
AUSTENITE, MICROSTRUCTURE
INFLUENCE OF PRELIMINARY HEAT TREATMENT ON DISPERSIVENESS OF IMPURITIES AND STABILITY OF AUSTENITIC GRAINS 67-04 M14-66364
THE CRYSTALLOGRAPHIC CHARACTERISTICS OF THE AUSTENITE, RETRANSFORMED IN THE MARTENSITE WITH FAST HEATING, IN A FE-NI ALLOY WITH 32.5 PER CENT NICKEL 67-09 M13-77849
AUSTENITE, PHASE DIAGRAM REACTIONS
A DEVICE FOR INVESTIGATING THE ISOTHERMAL DECOMPOSITION OF THE AUSTENITE IN IRON

67-06 M14-70195
AUSTENITE, PHASE DIAGRAMS
THERMODYNAMIC CALCULATION OF THE EQUILIBRIUM DIAGRAM OF THE IRON-CARBON SYSTEM 67-02 M13-62253
AUSTENITE, PHASE TRANSFORMATIONS
PROBLEM OF GRADUAL TRANSFORMATION OF SUPERCOOLED AUSTENITE 67-01 M14-57637
STABILIZATION OF RETAINED AUSTENITE IN COBALT-VANADIUM HIGH-SPEED STEEL 67-02 M10-59951
STUDY OF 9 PER CENT NICKEL LOW-CARBON STEELS--THE PRECIPITATION OF AUSTENITE AND MICROSTRUCTURE 67-02 M14-59114
REVIEW OF EXISTING KNOWLEDGE ON TRANSFORMATIONS OF SUPERCOOLED AUSTENITE 67-02 M14-60287
ON THE FEASIBILITY OF A COMPOSITE MARTENSITE MODEL FOR THE --225--F AUSTENITE-MARTENSITE TRANSFORMATION 67-02 M14-61508
STABILITY OF AUSTENITE IN SOME FE-CR-NI ALLOYS AT LOW DEFORMATION TEMPERATURES 67-02 M14-61981
A THERMAL STABILIZATION OF AUSTENITE 67-04 M14-66929
KINETICS OF THE INTERMEDIATE TRANSFORMATION IN CHROMIUM-NICKEL-MANGANESE STEELS 67-05 M14-68255
ON THE NATURE OF THE MARTENSITE TO AUSTENITE REVERSE TRANSFORMATION 67-06 M14-70435
STABILITY OF AUSTENITE IN SOME FE-CR-NI ALLOYS IN DEFORMATION AT LOW TEMPERATURE 67-10 M14-78838
MORPHOLOGY AND KINETICS OF AUSTENITE DECOMPOSITION AT HIGH PRESSURE 67-12 M14-82869
AUSTENITE, PHYSICAL PROPERTIES
MOSSBAUER EFFECT IN IRON-CARBON AND IRON-NITROGEN ALLOYS 67-04 M16-66536
AUSTENITE, RETAINING
INVESTIGATION OF THE STRUCTURE OF THE CASE HARDENED LAYER OF 20KHGVT AND 20KHGSVT NICKEL-LESS STEELS 67-04 M13-66625
AUSTENITE, TEMPERATURE EFFECTS
THERMAL STABILIZATION OF AUSTENITE IN IRON-NICKEL-CARBON ALLOYS 67-11 M14-81598
AUSTENITE, THERMAL PROPERTIES
EFFECT OF INTERMEDIATE STRUCTURES ON THE PROPERTIES OF STRUCTURAL STEEL 67-02 M17-61223
AUSTENITIC STAINLESS STEELS
HECLA EM.20 --HIGH TEMPERATURE ALLOY-- 67-02 M01-61661
PARTICULARS OF AUSTENITIC STEELS WITH HIGH MANGANESE CONTENTS. PT. 1 67-04 M01-68126
SITE WELDING ON 20K STEEL PLATE CLAD WITH KH17N13M2T STEEL 67-04 M11-66477
ESSHETE 1250 --CREEP AND CORROSION RESISTANT ALLOY-- 67-07 M01-73157
INFLUENCE OF SILICON ON INTERGRANULAR CORROSION AND GRAIN BOUNDARY ENERGY IN NICKEL-CHROMIUM AUSTENITIC STAINLESS STEELS 67-09 M18-77679
AUSTENITIC STAINLESS STEELS, AGING /METALLURGICAL/
INFLUENCE OF PLASTIC DEFORMATION TEMPERATURE ON THE AGING OF HIGH-TEMPERATURE AUSTENITIC STEELS 67-02 M14-60294
AUSTENITIC STAINLESS STEELS, ALLOYING
ALLOYING TYPE KH25N20S2 HIGH-TEMPERATURE CORROSION RESISTANT AUSTENITIC STEELS WITH 0.2-0.7 PER CENT BORON 67-08 M01-75022
AUSTENITIC STAINLESS STEELS, BIMETALS
STEEL WIRE CLAD WITH COPPER FOR LEADS TO RADIO PARTS 67-07 M20-74149
AUSTENITIC STAINLESS STEELS, BONDING
METHODS OF IMPROVING THE TECHNOLOGY OF PRODUCING BILAYER SHEET STEEL 67-02 M07-61948
STAINLESS STEEL HELICOPTER BLADES.. THEY GO WHERE THE ACTION IS 67-03 M07-65014
MEANS OF IMPROVING THE MANUFACTURE OF TWO-PLY STEELPLATE 67-04 M07-67777
AUSTENITIC STAINLESS STEELS, BRAZING
DIFFUSION BRAZING IN STAINLESS STEEL FUEL ELEMENTS FOR WATER COOLED POWER REACTORS 67-07 M11-73900
AUSTENITIC STAINLESS STEELS, CASTING
APPLICATION OF ALTERNATING ELECTROMAGNETIC FIELDS IN THE CONTINUOUS CASTING OF STEEL 67-01 M04-57932
HIGH ALLOY CENTRIFUGAL CASTINGS IN CRITICAL APPLICATIONS 67-01 M06-58450
THE APPLICATION OF NONSTATIONARY ELECTROMAGNETIC FIELDS IN THE CONTINUOUS CASTING OF STEEL 67-02 M04-59135
ECONOMICAL PRODUCTION IN THE DAIRY FITTINGS INDUSTRY THROUGH THE INTRODUCTION OF PRECISION-CAST HOUSING PARTS 67-02 M06-60034
TREATING BORON STEELS BY ELASTIC VIBRATIONS 67-02 M06-61960
TREATMENT OF BORON STEELS USING ULTRASONIC VIBRATIONS 67-04 M06-67781
MECHANICAL BURN-ON FORMATION ON THE HIGH ALLOY STEEL CASTINGS 67-04 M06-67946
THE CONTINUOUS CASTING OF HOLLOW BILLETS 67-06 M04-72159
EFFECT OF CONTINUOUS CASTING CONDITIONS UPON QUALITY OF AUSTENITIC STAINLESS STEEL CAST BILLETS. PT. 2. STUDY OF CONTINUOUS CASTING OF STEEL 67-06 M04-72216
ON THE QUALITY OF CONTINUOUS-CAST STAINLESS STEEL SLABS 67-07 M04-72447
MINIMIZING THE AMOUNT OF SCALE AND NONMETALLIC INCLUSIONS IN CASTINGS OF 18-9 TI STEEL 67-07 M06-73015
COMPLEX IMPROVEMENT OF INGOT QUALITY BY CASTING THE STEEL UNDER SLAG AND HEATING THE FEEDER HEADS 67-09 M04-77361
STAINLESS STEEL SAND CASTINGS 67-11 M06-80700
THERMAL INTERACTIONS BETWEEN CASTING AND DIE 67-12 M06-81954
AUSTENITIC STAINLESS STEELS, CASTINGS
FLUX LINKAGE METHOD ACCURATELY MEASURES FERRITE IN STAINLESS CASTINGS 67-11 M19-81195
AUSTENITIC STAINLESS STEELS, CHEMICAL ANALYSIS
A STUDY OF PRECIPITATION IN STAINLESS AND MARAGING STEELS USING THE MOSSBAUER EFFECT 67-01 M14-58463
NEW METHOD FOR THE DETERMINATION OF AUSTENITE IN STEELS 67-02 M13-60693
THE APPLICATION OF MICROPROBES IN INDUSTRIAL RESEARCH 67-02 M19-59623
THE DETERMINATION OF THE FERRITE CONTENT OF AUSTENITIC STEEL WELDS 67-04 M19-68002
BORON DETECTION IN METALS BY ALPHA-PARTICLE TRACKING 67-09 M19-77432
CHEMICAL COMPOSITION OF THE SIGMA PHASE AUSTENITIC STAINLESS STEELS CONTAINING MOLYBDENUM 67-11 M19-80575
STUDY OF SULFIDES IN STEELS. INFLUENCE OF VARIOUS ADDITION ELEMENTS ON THEIR COMPOSITION 67-12 M13-83339
AUSTENITIC STAINLESS STEELS, CHEMICAL ENGINEERING
STAINLESS STEEL AND THE CHEMICAL INDUSTRY 67-03 M20-65462
AUSTENITIC STAINLESS STEELS, CLAD METALS
COMPATIBILITY OF U-PU-FZ FUEL ALLOYS WITH POTENTIAL CLADDING MATERIALS 67-01 M14-58585
AUSTENITIC STAINLESS STEELS, CLADDING
BENDING BIMETALLIC STRIP DURING ROLLING 67-04 M12-66618
AUSTENITIC STAINLESS STEELS, CLEANING
CORROSION TEST COUPONS--MECHANICAL CLEANING 67-01 M12-58768
AUSTENITIC STAINLESS STEELS, COATING
WELDING BETWEEN CLAD SHEET STEELS 67-04 M12-66410
HARD SURFACING BY OXYGEN-ACETYLENE FLAME, AIDED BY NI AND CO BASE ALLOYS 67-05 M12-69123
CESIUM DEPOSITION ON STAINLESS STEEL 67-10 M12-78729
AUSTENITIC STAINLESS STEELS, COATINGS
ELECTRODEPOSITION OF 18..8 STAINLESS STEEL 67-07 M12-73767
AUSTENITIC STAINLESS STEELS, CONTAINERS
THE PRODUCTION OF STAINLESS-STEEL BEER CASKS 67-06 M20-71898
AUSTENITIC STAINLESS STEELS, CORROSION
BEHAVIOR OF IRON-CHROME-NICKEL AUSTENITES AND FEAL 40 ALLOY IN SUPERHEATED STEAM 67-01 M18-57162
INTERGRANULAR CORROSION OF AUSTENITIC STAINLESS STEEL IN HIGHLY OXIDIZING ACID MEDIA. THE INFLUENCE OF THE SILICON CONTENT OF STEEL 67-01 M18-57298
HEAT TREATMENT AND CORROSION RESISTANCE OF AUSTENITIC TYPE 304 STAINLESS STEEL 67-01 M18-58470
HYDROGEN PERMEABILITY IN A STABLE AUSTENITIC STAINLESS STEEL 67-01 M18-58481
SENSITIVITY TO STRESS CORROSION AND INTERGRANULAR ATTACK OF HIGH-NICKEL AUSTENITIC ALLOYS 67-01 M18-58513
UNDERSTANDING THE STRESS-CORROSION BEHAVIOR OF STAINLESS STEELS 67-01 M18-58518

STUDY ON LOW-TEMPERATURE CORROSION IN ACTUAL HEAVY OIL-FIRED BOILERS 67-01 M18-58696
CATHODIC POLARIZATION AND KINETICS OF ADSORPTION OF OXYGEN ON METALS 67-02 M18-58930
FIELD TEST RESULTS OF HIGH-PRESSURE FEED WATER HEATER TUBING MATERIALS OF A POWER PLANT 67-02 M18-59143
THE EFFECTS OF CLO ION ON THE CORROSION BEHAVIORS OF STAINLESS STEELS IN CONCENTRATION CAUSTIC SODA SOLUTIONS 67-02 M18-59736
REDUCING THE DEGREE TO WHICH WELDS IN CARBON AND STAINLESS STEELS ARE CORRODED IN ACID SOLUTIONS 67-02 M18-59792
CORROSION OF STEELS BY SEA WATER 67-02 M18-60043
EFFECTS OF COMPOSITION ON THE STRESS CORROSION CRACKING SUSCEPTIBILITY OF AUSTENITIC STAINLESS STEELS IN CHLORIDE CONTAINING HIGH TEMPERATURE WATER. PT. 1. COMPARISON AMONG THE SUS 27, 28, 32 AND 43 STEELS IN THE JAPANESE INDUSTRIAL STANDARD 67-02 M18-60276
INTERCRYSTALLINE CORROSION SUSCEPTIBILITY OF LOW CARBON AND STABILISED AUSTENITIC STAINLESS STEELS 67-02 M18-60915
CORROSION CRACKING RESISTANCE OF CR-MN STEELS AND ALLOYS IN MOLTEN CHLORIDES 67-02 M18-61257
APPLICATIONS OF STEELS FOR DESALINATION PLANTS 67-02 M18-61538
THE PITTING POTENTIAL OF STAINLESS STEELS IN CHLORIDE MEDIA 67-02 M18-61761
SOME VIEWPOINTS ON HIGH-TEMPERATURE CORROSION WITH THE COMBUSTION OF GAS, COAL AND OIL 67-02 M18-62013
OBSERVATIONS ON CORRODED PARTS OF A STATIONARY 10 MW GAS TURBINE 67-02 M18-62014
HIGH-TEMPERATURE CORROSION BY PRODUCTS OF COMBUSTION OF FUEL OILS OF HIGH AND MEDIUM DENSITY 67-02 M18-62015
TYPES OF CORROSION, AND THE BEHAVIOR OF METALS AND ADDITIVES IN FIRING PLANTS 67-02 M18-62016
HIGH-TEMPERATURE CORROSION TESTS WITH DIFFERENT HEAT RESISTANT MATERIALS IN AN OIL/GAS FIRED INDUSTRIAL BOILER 67-02 M18-62019
THE CORROSION OF AUSTENITIC SUPERHEATER STEELS BY ALKALI SULFATE/ALKALI CHLORIDE MIXTURES IN AIR AND COMBUSTION GASES 67-02 M18-62023
THE RESISTANCE OF ALLOYS TO HIGH TEMPERATURE CORROSION BY PRODUCTS OF COMBUSTION 67-02 M18-62024
STAINLESS STEELS WITH AN ADDITION OF SILICON.. GENERAL STUDY OF THEIR BEHAVIOR IN HIGHLY OXIDIZING ACID MEDIA 67-02 M18-62036
HIGHLY ALLOYED STAINLESS SHEET SHOWN TO RESIST DILUTE HOT ACID IMPINGEMENT IN PICKLING BOOTH 67-03 M18-65470
ON THE MECHANISM OF STRESS CORROSION CRACKING IN AUSTENITIC STAINLESS STEELS 67-03 M18-65844
CORROSION RESISTANCE OF AUSTENITIC STAINLESS STEEL CONTAINING NITROGEN AND THE EFFECT OF RARE-EARTH METALS 67-03 M18-65961
SOAKING HALTS STAINLESS RUST 67-04 M12-68115
MACHINABILITY AND CORROSION RESISTANCE OF 1CR18NI12MO2TI STEELS 67-04 M18-66021
EFFECT OF EXPOSURE TIME ON CAVITATION DAMAGE 67-04 M18-66232
THE RESISTANCE OF AUSTENITIC CHROMIUM MANGANESE STEELS AND ALLOYS TO CORROSION CRACKING IN SOLUTIONS OF CHLORIDES 67-04 M18-66530
CORROSION RESISTANCE AT HIGH TEMPERATURES. PT. 16. OXIDATION OF STAINLESS STEELS AND HEAT RESISTANT ALLOYS AT HIGH TEMPERATURES 67-04 M18-66640
PROBLEMS RELATED TO THE WELDING OF LOW-CARBON AUSTENITIC STAINLESS STEELS 67-04 M18-66641
INFLUENCE OF MINOR ALLOY ELEMENTS ON STRUCTURE OF SURFACE OXIDES FORMED DURING HIGH-TEMPERATURE OXIDATION OF AN AUSTENITIC STEEL 67-04 M18-66733
INVESTIGATION OF THE STRESS CORROSION OF AUSTENITIC STEELS IN MGCL3 SOLUTIONS 67-04 M18-67206
EVALUATION OF CORROSION RESISTANCE OF AUSTENITIC STAINLESS STEELS FOR WATER COOLED POWER REACTORS 67-04 M18-67592
THE BEHAVIOR OF AUSTENITIC CR-NI STEELS IN CO2 67-04 M18-67712
INTERCRYSTALLINE CORROSION OF SOME STAINLESS STEELS 67-04 M18-67972
CORROSION RESISTANCE OF STEELS WITH A LOW CONCENTRATION OF NICKEL IN AGGRESSIVE MEDIA 67-05 M18-68381
CORROSION RESISTANCE OF WELDED JOINTS OF OKH21N6M2T STEEL 67-05 M18-68382
MICROSTRUCTURE, TECHNICAL AND CORROSION PROPERTIES OF HIGH-B CHEMICALLY RESISTANT STEELS 67-05 M18-68608
LIQUID SODIUM TECHNOLOGY DEVELOPMENT. PT. 1. TEST LOOPS, PURIFICATION METHODS AND CORROSION TESTS 67-05 M18-68647
INFLUENCE OF RESIDUAL STRESSES ON CORROSION CRACKING OF AUSTENITIC STAINLESS STEELS 67-05 M18-69007
EFFICIENCY OF THE USE OF SURFACE HARDENING FOR INCREASING FATIGUE AND CORROSION FATIGUE RESISTANCE OF SOME STAINLESS STEELS 67-05 M18-69014
RELIABILITY OF AUSTENITIC STEELS FOR POWER PLANTS WITH VAPOR PARAMETERS OF 650 C. AND 315 ATM 67-05 M18-69273
BEHAVIOR OF STAINLESS STEELS DURING FRICTION IN AGRESSIVE MEDIA. PT. 2 67-05 M18-69493
COMPARATIVE STUDY OF CORROSION CRACK RESISTANCE OF OKH21N5T AND KH18N10T STAINLESS STEELS 67-05 M18-69822
SOME OBSERVATIONS ON THE PITTING CORROSION OF TYPE 302 STAINLESS STEEL IN DILUTE OXYGENATED HALIDE SOLUTIONS 67-06 M18-69905
THE EFFECT OF HYDROGEN ON THE STRUCTURAL PROPERTIES OF STAINLESS STEEL AS RELATED TO ITS CORROSION BEHAVIOR 67-06 M18-70126
CORROSION/EROSION 67-06 M18-70230
A CONTRIBUTION TO THE EXAMINATION OF STRESS CORROSION CRACKING OF AUSTENITIC STAINLESS STEELS IN MAGNESIUM CHLORIDE SOLUTIONS 67-06 M18-70482
USE OF AMMONIA TO SUPPRESS OXYGEN PRODUCTION AND CORROSION IN BOILING-WATER REACTORS 67-06 M18-70489
PREVENTION OF VANADIUM PENTOXIDE ATTACK OF REFORMER TUBES BY MAGNESIUM COMPOUNDS 67-06 M18-70543
CAVITATION DAMAGE AND CRYSTAL STRUCTURE --A STUDY OF CAVITATION DAMAGE FROM THE VIEWPOINT OF MATERIAL SCIENCE. PT. 3.-- 67-06 M18-70780
THE PROBLEM OF AUSTENITIC STEELS WHICH ARE RESISTANT TO CORROSION CRACKING 67-06 M18-71109
CHEMICAL TREATMENT OF STAINLESS STEEL TUBES FOR PREVENTION OF PITTING CORROSION 67-06 M18-71264
HOW METALLURGIST HELPS HALT CORROSION 67-06 M18-71314
THE STUDY OF UNDERWATER CORROSION OF STAINLESS STEELS AND NICKEL BASE ALLOYS 67-06 M18-71502
STRESS-CORROSION CRACKING OF COLD-REDUCED AUSTENITIC STAINLESS STEELS 67-06 M18-71591
CAVITATION DAMAGE STUDIES WITH ROTATING DISK IN WATER 67-06 M18-71638
THE EFFECT OF ZIRCONIUM AS A FUNCTION OF THE CARBON CONTENT ON THE INTERCRYSTALLINE CORROSION OF AUSTENITIC CR-NI STAINLESS STEELS 67-06 M18-72162
STEAM-METHANE REFORMING PROBLEMS--STRESS CORROSION CRACKING IN PRIMARY CONVERSION 67-06 M18-72337
IMPURITY ADSORPTION AND INTERGRANULAR CORROSION OF AUSTENITIC STAINLESS STEEL IN BOILING HNO3-K2CR2O7 SOLUTIONS 67-07 M18-72763
TRANSGRANULAR CORROSION AND CORROSION CRACKING OF 18-9 AND 18-12 TYPES OF STAINLESS STEELS WITHOUT TI AND CB ADDITIONS 67-07 M18-73171
INTERCRYSTALLINE CORROSION OF TWO-PHASE STEELS OF THE OKH21N5 TYPE 67-07 M18-73646
INFLUENCE OF BORON ON STRESS CORROSION RESISTANCE OF KH18N12B STEEL IN MGCL2 SOLUTION 67-07 M18-73660
ELECTROCHEMICAL INVESTIGATION OF STRESS CORROSION CRACKING AND ITS PRACTICAL APPLICATION 67-07 M18-73696
KINETIC FEATURES OF STRESS-CORROSION CRACKING 67-07 M18-73697
STABILITY OF AUSTENITE IN STAINLESS STEEL AND ITS SUSCEPTIBILITY TO CORROSION CRACKING 67-07 M18-74195
MECHANISM OF STRESS CORROSION CRACKING OF FACE CENTERED CUBIC ALLOYS 67-08 M18-74409
CORROSION STUDIES ON SINTERED CR-NI STEELS 67-08 M18-74448
STUDYING THE ELECTROCHEMICAL BEHAVIOR OF WELDED JOINTS USING THE POTENTIOSTATIC METHOD

67-08 M18-75405
COMPARATIVE RESEARCH OF THE PITTING SUSCEPTIBILITY OF ORDINARY FERRITIC CR STEELS AND AUSTENITIC CR-NI STEELS IN CACL2 SOLUTIONS 67-08 M18-75511
CHEMICAL TREATMENT OF STAINLESS STEEL TUBES TO ELIMINATE RUSTY SPOTS 67-08 M18-75733
ROLE OF SLIP STEP EMERGENCE IN THE EARLY STAGES OF STRESS CORROSION CRACKING IN FACE CENTERED IRON-NICKEL-CHROMIUM ALLOYS 67-08 M18-75773
CORROSIN TUNNELS IN STAINLESS STEELS
67-08 M18-76188
EFFECT OF TEMPERATURE ON STRESS-CORROSION CRACKING OF AUSTENITIC STAINLESS STEELS IN HIGH-TEMPERATURE SODIUM CHLORIDE SOLUTIONS
67-08 M18-76251
CAVITATION RESISTANCE OF CHROMIUM-MANGANESE AUSTENITIC STEELS CONTAINING NITROGEN
67-08 M18-76282
STRESS RELIEF IN AUSTENITIC STEEL WELDS
67-09 M18-76517
A RELATIONSHIP BETWEEN STEADY-STATE CORROSION POTENTIAL AND THE ANODIC DISSOLUTION KINETICS OF THE 300 SERIES AUSTENITIC STAINLESS STEELS
67-09 M18-76644
PITTING ON CUT AND ROLLED SURFACES OF STEEL SHEET WITH 18 PER CENT CR AND 10 PER CENT NI
67-09 M18-77228
NEW PROCESS SOLVES NITRATE CORROSION
67-09 M18-77376
COMPATIBILITY OF ATLAS MATERIALS WITH FLUORINE PROPELLANTS 67-09 M18-77564
THE CHEMICAL STABILITY OF NITROGEN CR-NI STEELS
67-09 M18-77827
CORROSION OF METALS BY FLOWING LIQUID FLUORINE COMPOUNDS 67-10 M18-78475
PITTING CORROSION OF STAINLESS STEELS IN WATER CONTAINING CHLORINE IONS 67-10 M18-78528
THE INFLUENCE OF THE MOLYBDENUM CONTENT ON THE CORROSION RATE OF AUSTENITIC CR-NI STEELS IN THE ACTIVE CONDITION 67-10 M18-78685
CAVITATION RESISTANCE OF CHROMIUM-MANGANESE AUSTENITIC STEELS CONTAINING NITROGEN
67-10 M18-79275
STRESS CORROSION CRACKING OF AUSTENITIC STAINLESS STEELS IN REFINERIES 67-10 M18-79371
STAINLESS STEEL AND THE GIPSY MOTH 4
67-10 M18-79426
MECHANISM UNDERLYING THE CORROSION OF CARBON STEELS IN LITHIUM 67-10 M18-79641
NONSTANDARDIZED AUSTENITIC STAINLESS STEELS
67-10 M18-79928
CORROSION MEASURING METHODS IN PETROLEUM PROCESSING INSTALLATIONS 67-10 M18-79970
INVESTIGATION OF REDOX POTENTIALS OF AN ELECTROLYTE WITH ADDITION OF METALLIC COPPER
67-10 M18-80008
INFLUENCE OF WORK HARDENING AND SOLUTION HEAT TREATMENT ON THE KINETICS OF SENSITIZATION OF AN 18-8 STEEL 67-11 M18-80242
THE BEHAVIOR OF AUSTENITIC FE-CR-NI STEELS AND OF THE NEW FEAL 40 ALLOY IN SUPERHEATED STEAM
67-11 M18-80355
CORROSION CRACKING OF KH17N2 AND KH17N5M3 STAINLESS STEELS IN CHLORIDE SOLUTIONS 67-11 M18-80585
GRAIN BOUNDARY OXIDATION AND THE CHROMIUM-DEPLETION THEORY OF INTERCRYSTALLINE CORROSION OF AUSTENITIC STAINLESS STEELS 67-11 M18-80708
COMPARATIVE SENSITIVITY OF AUSTENITIC-FERRITIC AND AUSTENITIC STAINLESS STEELS TO PITTING CORROSION
67-11 M18-81277
THE ELECTROCHEMICAL BEHAVIOUR OF WELDED JOINTS
67-12 M18-82026
INFLUENCE OF VARIOUS OXIDIZING AGENTS AND TRACES OF SULFATE IONS ON THE CORROSION OF A SILICON AUSTENITIC STEEL IN A NITRIC ACID MEDIUM
67-12 M18-82138
COMPARATIVE STUDY OF THE RESISTANCE OF KH21N5T AND KH18N10T STEELS TO CORROSION CRACKING
67-12 M18-82256
INVESTIGATIONS INTO A PITTING CORROSION INDICATOR TEST ON CHROMIUM AND CHROME-NICKEL STEELS IN SOLUTIONS CONTAINING CHLORIDE OR BROMIDE
67-12 M18-82298
CORROSION-FATIGUE STRENGTH OF MARK 1KH18N9T STEEL
67-12 M18-82435
THE NATURE OF THE CORROSIVE ACTION OF OXYGEN-BEARING LIQUID SODIUM UPON STEEL
67-12 M18-82439
THE CONNECTION BETWEEN THE GRAIN SIZE OF AUSTENITIC STEELS AND THEIR SUSCEPTIBILITY TO INTERGRANULAR CORROSION 67-12 M18-82483
FACTORS AFFECTING RUPTURE BY TENSIOCORROSION IN AUSTENITIC STAINLESS STEELS 67-12 M18-82517
PITTING CORROSION OF AUSTENITIC FE-CR-NI STEELS. FACTORS AFFECTING ATTACK MECHANISMS
67-12 M18-82519
INTERGRANULAR CORROSION AND ELECTRON MICROSCOPIC STUDIES OF AUSTENITIC STAINLESS STEELS
67-12 M18-83054
CORROSION BEHAVIOR OF AUSTENITIC CR-NI STEELS IN PHOSPHORIC ACID 67-12 M18-83291
INFLUENCE OF HIGH-TEMPERATURE DEFORMATION AND SUBSEQUENT QUENCHING ON CORROSION AND MECHANICAL PROPERTIES OF AUSTENITIC CR-NI STEELS
67-12 M18-83523
CORROSION RESISTANT AUSTENITIC-FERRITIC STEEL, OKH20N6M2T 67-12 M18-83542

AUSTENITIC STAINLESS STEELS, CRYSTAL GROWTH
SPECIAL FEATURES OF RECRYSTALLIZATION OF THE KH18N12T TUBE STEEL 67-09 M14-76956

AUSTENITIC STAINLESS STEELS, CRYSTAL LATTICES
A THEORY OF STEADY-STATE CREEP BASED ON DISLOCATION CLIMB AND ACTIVE FRANK-READ SOURCES
67-04 M14-66897
SOME PRECIPITATION REACTIONS IN CHROMIUM-MANGANESE-NITROGEN STAINLESS STEELS ON AGING AND COLD-WORKING 67-04 M14-66992
STACKING FAULT TETRAHEDRA IN FATIGUED STAINLESS STEEL 67-06 M13-72223
THE ROLE OF YIELDING IN STRESS-CORROSION CRACKING
67-06 M18-70630
STUDY OF THE EFFECT OF AGING AND DEFORMATION ON THE DISLOCATION STRUCTURE OF AUSTENITIC STEELS
67-11 M13-81429
ON THE FORMATION OF DISLOCATION LOOPS IN QUENCHED AUSTENITE 67-12 M13-82346

AUSTENITIC STAINLESS STEELS, CUTTING
MILLING GROOVES IN HEAT-RESISTANT STEELS BY END CUTTERS 67-02 M08-61258
PLASMA CUTTING BY A TORCH WITH AN AIR-WATER STABILIZATION OF ARC 67-02 M11-61271
A PLASMA ARC CUTTING TORCH WITH THE ARC STABILIZED WITH AIR AND WATER 67-05 M11-68271
A POWER SOURCE FOR PLASMA ARC CUTTING
67-08 M11-74777
CONTACT ARC FLASH CUTTING OF FERROUS AND NONFERROUS ALLOYS 67-08 M11-75417
ARC CUTTING OF FERROUS AND NON-FERROUS METALS WITH A ROTATING DISC ELECTRODE 67-12 M11-82038

AUSTENITIC STAINLESS STEELS, DIFFUSION
THE SHAPE AND MECHANISM OF FORMATION OF M23C6 CARBIDE IN AUSTENITE 67-04 M14-66540
INTERGRANULAR DIFFUSION OF IRON IN AUSTENITIC STEELS CONTAINING BORON 67-12 M14-82592

AUSTENITIC STAINLESS STEELS, ELECTRODES
FACTORS AFFECTING THE FERRITE CONTENT AND ITS DETERMINATION IN WELD DEPOSITS OF COATED AUSTENITIC STAINLESS ELECTRODES
67-03 M11-65815
AUTOMATIC SURFACE CLADDING WITH STRIP ELECTRODES
67-03 M12-65814

AUSTENITIC STAINLESS STEELS, ELECTRON MICROSCOPY
MICRODIFFRACTION OF ELECTRONS APPLIED TO METALLOGRAPHY 67-01 M13-58127

AUSTENITIC STAINLESS STEELS, EXTRUSION
STAINLESS STEEL EXTRUSION ELIMINATES THERMAL DISTORTION AND CRACKING 67-02 M07-59200
FUNDAMENTAL COMPUTATIONS FOR THE DEFORMATION REACTIONS THAT OCCUR IN EXTRUSION WITH A PNEUMATIC MECHANICAL HIGH-SPEED EXTRUSION PRESS
67-02 M08-60224
ON THE HIGH ENERGY-RATE WORKING OF STEEL--THE IMPACT EXTRUSION OF STEEL BELOW 900 C
67-04 M07-67581
RESISTANCE TO EXTRUSION OF AUSTENITIC STEELS FOR SUPERHEATER TUBES 67-08 M07-76164

AUSTENITIC STAINLESS STEELS, FASTENERS
STAINLESS STEEL SCREWS--THE SOLUTION TO FASTENING PROBLEMS IN MANY INDUSTRIES
67-05 M01-68483

AUSTENITIC STAINLESS STEELS, FORGING
MATHEMATICAL-STATISTICAL INVESTIGATION OF THE DELTA FERRITE CONTENT OF AUSTENITIC STEELS
67-04 M13-67205

AUSTENITIC STAINLESS STEELS, FORMING
TECHNICAL PROCESSES USING SHOCK WAVES AND THEIR APPLICATION 67-04 M08-66409
ABNORMALITITES IN THE LEADING END OF

AUSTENITIC STAINLESS STEELS

EXTRUDED STEEL TUBE. PT. 1. RESULTS OF RING TESTS ON 18-8 STAINLESS TUBE 67-07 M07-72439

AUSTENITIC STAINLESS STEELS, GRAIN STRUCTURE
THE MOVEMENT OF SOLID PARTICLES IN A SOLID 67-06 M14-70436

AUSTENITIC STAINLESS STEELS, HARDENING
EFFECT OF PLASTIC DEFORMATION TEMPERATURE ON THE AGEING KINETICS OF HEAT-RESISTANT AUSTENITIC STEEL WITH CARBIDE STRENGTHENING 67-01 M10-57352
HARDENING BY STACKING FAULT PRECIPITATION IN AN 18CR-12NI-NB AUSTENITIC STEEL 67-04 M17-67190
A COMPLEX METHOD FOR DETERMINATION OF HARDENABILITY OF AUSTENITIC STEELS 67-05 M10-69504
EFFECTS OF EXPLOSIVE FORMING ON THE STRAIN HARDENING IN STEEL 67-05 M14-69749
STRENGTHENING OF DISPERSION HARDENING ALLOYS SUBJECTED TO HIGH-VELOCITY DEFORMATION 67-09 M14-76442

AUSTENITIC STAINLESS STEELS, HEAT TREATMENT
POST CURING BY ELECTRICAL INDUCTION HEATING 67-01 M10-57980
THE SULFIDIZING AND SELENIDIZING OF STEEL AND GRAY CAST IRON 67-02 M10-60502
CONTINUOUS HEAT TREATMENT OF AN AUSTENITIC STRIP BY DIRECT RESISTANCE HEATING 67-04 M10-66015
FACTORS DETERMINING STABILITY AND STRENGTH OF AUSTENITIC AND NI ALLOYS 67-04 M10-66377
PRECIPITATION IN AUSTENITIC STAINLESS STEELS CONTAINING TANTALUM 67-04 M10-67194
THE FINE STRUCTURE OF AUSTENITIC STEEL STRENGTHENED BY AN INTERMETALLIC CONSTITUENT, AND DEFORMED IN A WIDE TEMPERATURE RANGE 67-04 M13-67640
PRECIPITATION OF CARBIDES IN ALLOY STEELS 67-04 M14-67546
FIRE-SAFE METAL QUENCHING 67-05 M10-68440
HEAT TREATMENT OF INVESTMENT-CAST STAINLESS STEELS AND HIGH TEMPERATURE ALLOYS 67-05 M10-69889
EFFECT OF PRERECRYSTALLIZATION ANNEALS ON STRUCTURE AND MECHANICAL PROPERTIES OF COLD STRAINED 1KH18N9T STEEL 67-06 M10-70291
INVESTIGATION OF SUSCEPTIBILITY OF WELDED SEAMS TO CARBURIZING 67-06 M11-71645
HEAT TREATMENT AS AN AID TO WELDING 67-06 M11-71940
NITRIDING OF DIFFUSION-CHROMIZED STEEL--A NEW CASE HARDENING METHOD 67-07 M10-74181
FORMATION OF DEPOSITS ON ROLLERS OF TOWER FURNACES DURING HEAT TREATMENT OF STEEL STRIP 67-08 M10-75732
PRODUCTION OF NITROGEN ALLOYED STEELS 67-09 M01-77824
INVESTIGATION OF STEEL NITRIDED IN NITROGEN DILUTED AMMONIA 67-09 M10-77419
SPECIAL PROPERTIES IMPARTED TO AUSTENITIC STAINLESS STEELS BY BRIGHT ANNEALING 67-10 M10-78324
INVESTIGATION OF THE CARBURISING TENDENCY OF WELDS 67-10 M10-79612
FACTORS DETERMINING THE STABILITY AND STRENGTH OF AUSTENITIC AND NICKEL STEELS 67-11 M10-80979
CHANGE IN THE FINE STRUCTURE OF AUSTENITE DURING THERMAL STRENGTHENING 67-11 M14-80731
SOME EFFECTS OF HEAT TREATMENT AND WELDING ON THE RUPTURE PROPERTIES OF THREE AUSTENITIC STEELS 67-11 M17-80278
HIGH STRENGTH STAINLESS STEELS 67-12 M10-81773
EFFECT OF THERMOMECHANICAL TREATMENT ON MECHANICAL PROPERTIES OF CR-NI-MO AUSTENITIC STAINLESS STEEL 67-12 M10-83118

AUSTENITIC STAINLESS STEELS, INCLUSIONS
THE DETERMINATION OF OXIDE INCLUSIONS IN STEEL 67-02 M04-60206

AUSTENITIC STAINLESS STEELS, INTERNAL FRICTION
DAMPING CAPACITY IN PLASTICALLY DEFORMED AUSTENITIC STEELS 67-02 M17-61174

AUSTENITIC STAINLESS STEELS, MACHINING
MACHINABILITY AND METALLURGY OF RESULFURIZED LOW-CARBON FREE-MACHINING STEELS 67-01 M08-58688
CHEMICAL MACHINING. PT. 21. MACHINING OF STAINLESS STEEL. PT. 1. WORKING SOLUTION AND MACHINING SPEED 67-02 M08-60160
POSSIBLE APPLICATIONS FOR HIGHLY WEAR-RESISTANT CUTTING MATERIALS 67-02 M17-59617
THE SIGNIFICANCE OF THE SPACE-AGE METALS 67-05 M08-68506
STUDY ON ELECTROLYTIC MACHINING PROCESS. PT. 7. THE EFFECTS OF THE CHANGE OF WORK MATERIAL ON THE SURFACE FINISH OF PRODUCTS MACHINED BY DIRECT CURRENT 67-05 M08-68903
STUDY ON ELECTROLYTIC MACHINING PROCESS. PT. 9. EFFECT OF INHIBITORS IN SODIUM CHLORIDE SOLUTION ON THE SURFACE FINISH OF WORK MACHINED BY DIRECT CURRENT 67-05 M08-69281
CUTTING PROPERTIES OF MONOLITHIC CERMET END CUTTERS 67-07 M08-74292
STUDY ON ELECTROLYTIC MACHINING PROCESS. PT. 11. EFFECT OF INHIBITOR IN SODIUM CHLORIDE SOLUTION ON THE SURFACE FINISH OF WORK MACHINED BY A SINGLE-PHASE HALF-WAVE RECTIFICATION CURRENT 67-12 M08-83224

AUSTENITIC STAINLESS STEELS, MAGNETIC PROPERTIES
INVESTIGATING MATERIALS OF LOW MAGNETIC PERMEABILITY 67-02 M15-58979
INVESTIGATING MATERIALS OF LOW MAGNETIC PERMEABILITY 67-02 M15-59625
THE DEVELOPMENT OF SPECIAL NONMAGNETIC STEELS 67-05 M20-69320
DEVELOPMENT OF THE NEW LOW-MAGNETIC KH18G14AN4 --EP197-- STAINLESS STEEL, AND INVESTIGATION OF ITS PROPERTIES 67-10 M01-78942

AUSTENITIC STAINLESS STEELS, MATERIALS
A CORROSION-RESISTANT AND HEAT-RESISTANT IRON ALLOY 67-10 M01-79662

AUSTENITIC STAINLESS STEELS, MECHANICAL PROPERTIES
SUBSTRUCTURAL STRENGTHENING IN MATERIALS SUBJECT TO LARGE PLASTIC STRAINS 67-01 M17-57407
AN ANOMALOUS DECREASE OF THE ELASTIC MODULI AT VERY LOW TEMPERATURES IN SOME 300 SERIES STAINLESS STEELS 67-01 M17-57624
EVALUATION OF THE EFFECTS OF SPECIMEN CONFIGURATION AND TESTING VARIABLES ON CRACK PROPAGATION PROPERTIES 67-01 M17-57629
CREEP PROPERTIES OF 18-10 AND 25-20 STAINLESS STEELS AT CRYOGENIC TEMPERATURES 67-01 M17-57631
FRACTURE MICROMECHANICS OF EXTRA-WORKHARDENED TYPE 301 STAINLESS 67-01 M17-58610
STUDY ON HOT-CRACKING OF AUSTENITIC STAINLESS STEEL IN OVERLAY WELDING 67-01 M17-58697
INVESTIGATION OF PLASTIC DEFORMATION OF A TENSILE-TEST SPECIMEN 67-02 M17-58838
EFFECT OF NITROGEN ON THE STRUCTURE AND PROPERTIES OF AUSTENITIC CHROMIUM-MANGANESE AND CHROMIUM-MANGANESE-NICKEL STEELS 67-02 M17-59057
PROPERTIES OF CONTINUOUSLY CAST PRODUCTS 67-02 M17-59138
HIGH-TEMPERATURE STRENGTH AND STRUCTURAL CHANGE OF TYPE 316 AUSTENITE STAINLESS STEEL CASTINGS 67-02 M17-59156
LOW-TEMPERATURE IMPACT-RESISTANT STAINLESS STEELS USED IN WELDED VESSELS --TANKS-- 67-02 M17-59412
COMPARATIVE INVESTIGATION OF THE HEAT RESISTANCE OF TWO BRANDS OF AUSTENITIC STEEL 67-02 M17-59687
FATIGUE STUDIES OF MARINE THREAD JOINTS 67-02 M17-59704
THE RESISTANCE TO THERMAL SHOCK OF AUSTENITIC AND FERRITIC STEELS --3-- 67-02 M17-59811
ON THE EQUALITY OF ACTIVATION ENERGY OF STRESS RUPTURE RESULTING FROM CREEP AND DISLOCATION MOVEMENT IN HIGH-ALLOY STEELS 67-02 M17-59936
INVESTIGATION OF THE DUCTILITY OF SOME AUSTENITIC STEELS AT HIGH LOAD RATES 67-02 M17-59943
ON THE AGE HARDENING OF MN-CR AUSTENITE NONMAGNETIC STEELS CONTAINING VANADIUM 67-02 M17-59980
THE EFFECT OF MOLYBDENUM, TUNGSTEN AND VANADIUM ON THE ANNEAL HARDENING OF COLD WORKED 18 CR-12 NI STAINLESS STEEL 67-02 M17-60147
CHANGES IN THE HIGH-TEMPERATURE STRENGTH OF 18CR9NI STEEL AFTER CYCLE HEAT TREATMENT 67-02 M17-60297
BRITTLE FRACTURE OF AUSTENITIC STEEL WELDS AT HIGH TEMPERATURES 67-02 M17-61241
THE ROLE OF NON-METALLIC INCLUSIONS IN THE FAILURE OF CAST STEEL 67-02 M17-61912
INFLUENCE OF SURFACE DEFECTS ON THE MECHANICAL PROPERTIES OF THIN-WALLED TUBING OF 304 STAINLESS STEEL 67-02 M17-61963
INVESTIGATION OF IMPACT STRENGTH OF AUSTENITIC STEELS AT LOW TEMPERATURES 67-02 M17-61979
CONTRIBUTION TO THE STUDY OF THE FORGEABILITY OF STAINLESS AND REFRACTORY STEELS IN THE AS-CAST

CONDITION 67-02 M17-62063
EFFECT OF PLASTIC DEFORMATION AND PRECIPITATION HARDENING ON INTERNAL FRICTION PARAMETERS OF FE-MN AND FE-NI AUSTENITIC ALLOYS 67-02 M17-62088
EFFECT OF PLASTIC DEFORMATION TEMPERATURE ON MECHANICAL PROPERTIES OF HEAT-RESISTANT AUSTENITIC STEELS 67-02 M17-62269
A METHOD FOR DETERMINING STRESS RELAXATION CHARACTERISTICS IN THE COMPLEX STRESSED STATE 67-03 M17-65071
THE PROBLEM OF THE CREEP OF METALS. PT. 18. MORE INFORMATION ON HIGH TEMPERATURE TENSILE PROPERTIES 67-03 M17-65169
RESIDUALS--MISCHIEVOUS MITES IN STAINLESS 67-03 M17-65490
A FRICTION AND WEAR STUDY OF HADFIELD MANGANESE STEEL 67-03 M17-65599
THERMAL LOADING DURING CYCLIC TESTING 67-03 M17-65605
STUDIES OF IRRADIATION EFFECTS ON SWEDISH STEELS 67-03 M17-65685
CERTAIN CHARACTERISTICS OF THE BEHAVIOR OF AUSTENITIC STEELS DURING ALTERNATE LOADING 67-03 M17-65783
TEMPERATURE DEPENDENCE OF MECHANICAL PROPERTIES OF AUSTENITIC-MARTENSITIC STEELS 67-03 M17-65967
NEW STEELS FOR THE CPI 67-04 M01-66588
EXOTHERMICALLY BRAZED HYDRAULIC FITTINGS FOR AIRCRAFT 67-04 M11-67625
THE EFFECT OF DELTA-FERRITE ON THE IMPACT STRENGTH OF THE WELD METAL IN JOINTS IN TRANSITIONAL STEELS 67-04 M17-66463
THE SENSITIVITY OF WELDED JOINTS IN AUSTENITIC STEELS TO BRITTLE FRACTURE AT HIGH TEMPERATURES 67-04 M17-66513
EXPERIMENTAL INVESTIGATION OF STRESS-RUPTURE STRENGTH OF CHROMIUM-NICKEL-TITANIUM STEEL IN CONDITIONS OF BIAXIAL EXTENSION 67-04 M17-66821
STRAIGHT WIRE SPRING OF STAINLESS STEEL 67-04 M17-66895
CREEP PROPERTIES OF CR-NI-MO AUSTENITIC STEEL IN RELATION TO STRUCTURE 67-04 M17-66983
EMBRITTLEMENT OF NEUTRON-IRRADIATED 20CR-25NI-NB AUSTENITIC STEEL AT 650 C 67-04 M17-66991
INFLUENCE OF MOLYBDENUM ON THE STRUCTURE AND PROPERTIES OF A CARBIDE-BEARING AUSTENITIC STEEL 67-04 M17-67023
REDUCTION OF ADSORPTION CAPACITY BY STEEL SPECIMENS IN CONTACT WITH A MELT, AND THE ROLE OF GASEOUS IMPURITIES 67-04 M17-67048
EFFECT OF THE HARDNESS AND STRUCTURE OF STEEL ON RESISTANCE TO HYDRAULIC ABRASION AND CAVITATION 67-04 M17-67049
EVALUATION OF THE BEHAVIOR OF STEELS AND ALLOYS DURING HOT DEFORMATION WITH THE AID OF HOT TORSION SPECIMENS 67-04 M17-67202
BEHAVIOR OF STEELS AT HIGH PRESSURES AND TEMPERATURE FOR THE CHEMICAL INDUSTRY 67-04 M17-67212
ON THE STRENGTH OF AUSTENITIC STEELS DURING CYCLIC LOADING 67-04 M17-67381
FUNDAMENTAL MATERIAL INVESTIGATIONS WITH RESPECT TO DEFORMATION AT INTERMEDIATE TEMPERATURES 67-04 M17-67409
BOUNDARY OF BRITTLENESS IN AUSTENITIC WELDS OF HEAT RESISTANT STEELS WITH 25 PER CENT CHROMIUM 67-04 M17-67444
CREEP AND RUPTURE DATA FOR DOMESTIC MATERIALS 67-04 M17-67597
CREEP-RUPTURE PROPERTIES OF SOME FERRITIC AND AUSTENITIC STEELS 67-04 M17-67598
LOW-NICKEL AUSTENITIC KH14G14N3T STEEL 67-04 M17-67976
STRENGTHENING OF KH18N22V2T2 STEEL BY AGING AT 600-750 C 67-04 M17-67979
INFLUENCE OF PHASE TRANSFORMATIONS ON THE DUCTILITY OF AUSTENITIC-FERRITIC STEELS 67-04 M17-67980
MECHANICAL PROPERTIES OF AUSTENITIC STAINLESS STEELS AT -253 C 67-04 M17-67984
STAINLESS STEEL SPRING WIRE 67-05 M07-68673
EFFECTS OF EXPLOSIVE FORMING ON PROPERTIES OF AUSTENITIC STAINLESS STEELS 67-05 M08-69751
EMBRITTLEMENT OF WELDED JOINTS IN AUSTENITIC STEEL 67-05 M17-68362
INVESTIGATION OF THE RESISTANCE TO CAVITATION AND ABRASION OF MATERIALS FOR HYDRAULIC TURBINES 67-05 M17-68453
EFFECT OF HEAT TREATMENT ON STRUCTURAL PROPERTIES OF CR18NI9TI STEEL FOR CASTINGS 67-05 M17-69252
THE PRODUCTION OF CITY GAS BY THE OXIDIZING CATALYTIC CRACKING OF PETROLEUM HYDROCARBONS 67-05 M17-69353
THE PROBLEM OF THE CREEP OF METALS. PT. 19. MORE INFORMATION ON HIGH TEMPERATURE RUPTURE STRENGTH PROPERTIES 67-05 M17-69429
STAINLESS STEEL WIRE FEATURES GREAT STRENGTH AT HIGH TEMPERATURES 67-05 M17-69498
THE EFFECT OF COMBINED, SIMULTANEOUS ADDITION OF MO, NB, TI, N, B ON HIGH TEMPERATURE PROPERTIES OF 18CR-12NI AUSTENITIC HEAT RESISTING STEEL 67-05 M17-69711
THE EFFECT OF TWO-STEP SOLUTION TREATMENT ON THE CREEP RUPTURE PROPERTIES OF A HIGH-CARBON 18CR-12NI STAINLESS STEEL 67-05 M17-69858
ON THE HARDNESS CHANGE OF FERROUS MARTENSITE BY DEFORMATION 67-05 M17-69867
ON THE CRITERIA OF METAL DUCTILITY 67-05 M17-69899
RESULTS OF CREEP TESTS ON HIGH-TEMPERATURE AUSTENITIC STEELS 67-06 M17-70082
REQUIREMENTS FOR METALLIC SURGICAL IMPLANTS AND PROSTHETIC DEVICES 67-06 M17-70121
THE TENSILE PROPERTIES AT ROOM AND ELEVATED TEMPERATURES OF SOME CAST AUSTENITIC STEELS 67-06 M17-70530
HIGH TEMPERATURE CREEP STUDIES ON AUSTENITIC STAINLESS STEELS IN VACUUM 67-06 M17-70560
THE RELATION BETWEEN YIELD AND FATIGUE FRACTURE OF MILD STEEL 67-06 M17-70628
INVESTIGATION OF THERMAL FATIGUE IN COMPLEX STRESS CONDITIONS 67-06 M17-70902
OPTIMUM TEMPERATURES OF PLASTIC DEFORMATION OF STAINLESS STEELS 67-06 M17-70918
RELATION OF STRESS RELAXATION AND CREEP PHENOMENA IN METALS 67-06 M17-71135
HIGH-TEMPERATURE SPRINGS 67-06 M17-71231
SUBSTITUTE NICKEL-FREE AUSTENITIC STAINLESS STEELS 67-06 M17-71333
STUDY OF CREEP AND STRESS RELAXATION OF HIGH STRENGTH NONMAGNETIC MATERIALS 67-06 M17-71370
DETERMINING THE DYNAMIC ELASTIC MODULUS AT ELEVATED TEMPERATURES BY USING RAPID HEATING TECHNIQUES 67-06 M17-71639
ON THE HIGH-TEMPERATURE STRENGTH OF AUSTENITIC HEAT RESISTING ALLOYS 67-06 M17-71719
SILVER FOX HI-PROOF AUSTENITIC STAINLESS STEELS 67-06 M17-72099
MATERIALS FOR BOILERS AND NUCLEAR REACTOR VESSELS 67-06 M17-72249
EFFECT OF THERMAL HARDENING ON THE TENSILE PROPERTIES OF AUSTENITIC STEELS 67-06 M17-72358
SPECIAL CORROSION RESISTANT ALLOY USED FOR LARGE NITROGEN FERTILIZER TOWER 67-06 M20-71319
PROPERTIES OF ALLOY STEELS PRODUCED IN A BASIC OXYGEN LD FURNACE. PT. 3. THE PRODUCTION OF ALLOY STEELS IN A BASIC OXYGEN FURNACE 67-07 M17-72551
EQUALITY OF THE ACTIVATION ENERGIES OF LONG-TIME FAILURE, STEADY-STATE CREEP AND DISLOCATION CLIMB IN HIGH ALLOYS 67-07 M17-72591
DUCTILITY OF CERTAIN AUSTENITIC STEELS UNDER HIGH-VELOCITY LOADING 67-07 M17-72598
METHOD OF DETERMINING STRESS-RELAXATION CHARACTERISTICS FOR A COMPLEX STRESSED STATE 67-07 M17-72971
THE CHANGE OF HARDNESS IN 18-8 STAINLESS STEEL DURING THERMAL FATIGUE 67-07 M17-72981
EFFECTS OF IRRADIATION IN AUSTENITIC STEELS AND OTHER HIGH-TEMPERATURE ALLOYS 67-07 M17-73384
THE FLOW AND FRACTURE PROPERTIES OF UNIRRADIATED STAINLESS STEELS 67-07 M17-73385
THE COMBINED EFFECTS OF TEMPERATURE AND IRRADIATION ON THE MECHANICAL PROPERTIES OF AUSTENITIC STAINLESS STEELS 67-07 M17-73386
THE EFFECT OF IRRADIATION TEMPERATURE ON THE POST-IRRADIATION STRESS-STRAIN BEHAVIOR OF STAINLESS STEEL 67-07 M17-73387
IN-REACTOR STRESS-RUPTURE PROPERTIES OF A 20CR-25NI, COLUMBIUM-STABILIZED STEEL 67-07 M17-73388

AUSTENITIC STAINLESS STEELS

STRAIN-CYCLE PHENOMENA IN THIN-WALL TUBING 67-07 M17-73391
RELATIONSHIPS OF DAMAGE LIABILITY IN AUSTENITIC STEEL AT HIGH TEMPERATURES 67-07 M17-73471
SPECIAL STAINLESS STEELS 67-07 M17-73718
THE PROPERTIES OF STAINLESS STEEL 1H18N9T AFTER AGING IN THE POWER REACTOR TEMPERATURE RANGES. PT. 1. MECHANICAL PROPERTIES 67-07 M17-73884
THE INITIATION OF DUCTILE FAILURE BY FRACTURED CARBIDES IN AN AUSTENITIC STAINLESS STEEL 67-07 M17-73925
SOME CHARACTERISTICS OF BRITTLE FAILURE OF THE TWO-PHASE STEELS DURING HOT PLASTIC DEFORMATION 67-07 M17-74194
DARWINS 18/8 W.P.D. WELDING GRADE STAINLESS STEEL 67-08 M01-75689
THE IMPORTANCE OF THE HEAT TREATMENT OF THE AUSTENITIC RANGE 67-08 M10-76163
INFLUENCE OF NONUNIFORMITY OF MECHANICAL PROPERTIES OF AUSTENITIC STAINLESS STEEL WELDS ON LOCAL FAILURE 67-08 M11-74369
WHATS SO TOUGH ABOUT CRYOGENIC COLD 67-08 M17-74441
THE DEFORMATION BEHAVIOR OF CR-NI STEELS 67-08 M17-74446
COPPER AS AN ALLOY IN STEEL AND CAST IRON 67-08 M17-74453
FAILURE OF NON-MAGNETIC ROTOR BANDING WIRE FROM STRESS-CORROSION 67-08 M17-74507
INTERGRANULAR FAILURE OF AUSTENITIC STEEL PUMP SPINDLE 67-08 M17-74508
THERMAL METHOD OF LOADING IN INTERMITTENT STATIC TESTING 67-08 M17-74530
HIGH-TENSILE STAINLESS STEEL VNL 1 67-08 M17-74539
EVALUATING THE LONGEVITY CRITERIA OF ALLOYS AT MICROSHOCK LOADING 67-08 M17-74582
HIGH PROOF STRESS STAINLESS STEELS--SUCCESSFUL VESSEL TESTS AT BWRA 67-08 M17-74738
MECHANICAL PROPERTIES OF SEAM WELDED JOINTS IN THIN WALLED SLENDER TUBES 67-08 M17-74767
WIRE-WOOL TYPE BEARING FAILURES..THE FORMATION OF THE WIRE WOOL 67-08 M17-74798
INFLUENCE OF CARBON ON THE MECHANICAL PROPERTIES OF AUSTENITIC STEEL AT LOW TEMPERATURES 67-08 M17-74967
NEW AUSTENITIC STAINLESS STEELS 67-08 M17-75101
HAZARDOUS METALLURGICAL NOTCHES 67-08 M17-75526
FAILURE OF THE SHAFT OF A VERTICAL PUMP 67-08 M17-75536
THE VALIDITY OF THE ASSUMPTION OF PLANE STRAIN CONDITIONS IN PLASTIC DEFORMATION PROCESSES AND YIELD POINT PHENOMENA IN METALS AND ALLOYS 67-08 M17-75576
MECHANICAL PROPERTIES OF METALS 67-08 M17-75600
ELEVATED TEMPERATURE STRENGTH OF TUBES AND PIPES FOR HIGH-TEMPERATURE SERVICES 67-08 M17-75808
EFFECT OF ALLOYING ELEMENTS ON THE AUSTENITE PROPERTIES OF CR-NI STEELS 67-08 M17-75884
THE EFFECT OF HIGH-PRESSURE HYDROGEN UPON THE TENSILE PROPERTIES AND FRACTURE BEHAVIOR OF 304L STAINLESS STEEL 67-08 M17-75979
THE ENHANCEMENT OF DUCTILITY IN HIGH-STRENGTH STEELS 67-08 M17-75980
INFLUENCE OF THE GRAIN SIZE AND THE NB/C RATIO ON THE PROPERTIES OF KH16N15 M3B STEEL 67-08 M17-76015
CORROSION-RESISTANT AUSTENITIC CR-MN STEELS FOR ELASTIC ELEMENTS 67-08 M20-74956
CRACKS AND MICROFISSURES--BASE METALS 67-09 M11-77711
YIELD STRENGTH AND LOW-TEMPERATURE CREEP IN AUSTENITIC STAINLESS STEELS 67-09 M17-76380
INFLUENCE OF LIQUID PB-SB ALLOYS ON CRACK FORMATION IN DEFORMED STEEL 67-09 M17-76429
MECHANICAL PROPERTIES OF HIGH-NITROGEN AUSTENITIC STAINLESS STEELS AND POSSIBLE APPLICATIONS 67-09 M17-76508
NITROGEN-ALLOYED HEAT AND SCALE-RESISTANT STEEL CASTINGS. PT. 1 67-09 M17-76521
EFFECT OF CHEMICAL COMPOSITION AND HEAT TREATMENT OF GRADE 17241 STEEL ON ITS PLASTIC PROPERTIES 67-09 M17-76812
THE PLASTIC DEFORMATION OF 18-8 STEEL 67-09 M17-76815
FATIGUE STRENGTH OF COLD WORKED 18/8 CR-NI AND OTHER AUSTENITIC ALLOY STEELS 67-09 M17-76905
REASONS FOR EMBRITTLEMENT IN THE HEAT AFFECTED ZONE OF WELDS IN AUSTENITIC STEAMPIPES 67-09 M17-76962
DISTRIBUTION OF PLASTIC DEFORMATION IN POLYCRYSTALLINE METALS 67-09 M17-77279
INVESTIGATION OF THE PLASTIC SHOCK WAVE DEFORMATION IN AUSTENITIC SINGLE CRYSTALS 67-09 M17-77348
INFLUENCE OF RARE EARTH ELEMENTS ON THE PROPERTIES OF AUSTENITIC CR-NI STEEL 67-09 M17-77414
THE EFFECT OF IRRADIATION TEMPERATURE ON STRENGTH AND MICROSTRUCTURE OF STAINLESS STEEL 67-09 M17-77471
EFFECT OF FERRITE ON PROPERTIES OF AUSTENITIC WELD METAL 67-09 M17-77601
THE EFFECT OF NITROGEN ON THE PROPERTIES OF AUSTENITIC STAINLESS STEELS 67-09 M17-77825
EFFECT OF THE STABILIZATION RATIO ON THE CREEP AND PRECIPITATION BEHAVIOR OF AUSTENITIC STEELS WITH ABOUT 16 PER CENT CR, 13TO 16 PER CENT NI, 2 PER CENT MO AND NB 67-09 M17-77847
MARTENSITIC TRANSFORMATION AT VERY LOW-TEMPERATURES IN 18-10 LOW-CARBON AUSTENITIC STEELS DURING WORK HARDENING AND CREEP 67-10 M14-79936
CERTAIN SPECIAL FEATURES OF THE PLASTIC DEFORMATION OF COARSE-GRAINED AUSTENITIC STEELS 67-10 M17-78387
NEW AUSTENITIC STAINLESS STEELS 67-10 M17-78478
EFFECT OF THERMOMECHANICAL TREATMENT ON MECHANICAL PROPERTIES OF CR-NI-MO AUSTENITIC STAINLESS STEEL 67-10 M17-78749
IMPACT TOUGHNESS OF AUSTENITIC STEELS AT LOW TEMPERATURES 67-10 M17-78836
INFLUENCE OF THE STRUCTURAL STATE ON THE SHORT-TERM CREEP AND DESTRUCTION OF AUSTENITIC STEEL 67-10 M17-79227
TYPICAL PROPERTIES OF WROUGHT STAINLESS STEELS 67-10 M17-79754
PRESSURE VESSELS OF HIGH PROOF STRENGTH WARM WORKED STAINLESS STEEL 67-10 M17-79923
ELEVATED-TEMPERATURE TENSILE, CREEP, AND RUPTURE PROPERTIES OF 18 PER CENT CR-8 PER CENT NI, 18 PER CENT CR-12 PER CENT NI-MO, 18 PER CENT CR-10 PER CENT NI-TI, AND 18 PER CENT CR-12 PER CENT NI-NB STEELS 67-11 M17-80268
PROPERTIES OF TWO HIGHLY ALLOYED MARTENSITIC STAINLESS STEELS AND A PRECIPITATION-HARDENED AUSTENITIC STAINLESS STEEL IN THE TEMPERATURE RANGE 500 TO 700 C 67-11 M17-80275
THE HIGH-TEMPERATURE PROPERTIES OF AN ADVANCED AUSTENITIC STEEL--ESSHETE 1250 67-11 M17-80276
THE EFFECT OF CARBON, NITROGEN, AND BORON ON ELEVATED-TEMPERATURE PROPERTIES 67-11 M17-80282
PROPERTIES OF AUSTENITIC CR-NI STEELS 67-12 M17-81838
EFFECT OF SMALL COLUMBIUM ADDITIONS ON THE PROPERTIES OF SOME AUSTENITIC STAINLESS STEELS 67-12 M17-83046
EFFECT OF PRESTRESSING ON THE LIMIT OF ACCOMMODATION. NOTE ON AUSTENITIC STEEL 67-12 M17-83103
SHORT-TIME TENSILE AND LONG-TIME CREEP-RUPTURE PROPERTIES OF THE HK-40 ALLOY AND TYPE 310 STAINLESS STEEL AT TEMPERATURES TO 2000 F 67-12 M17-83240
A STUDY OF THE LAW OF CRACK PROPAGATION 67-12 M17-83242
THE INFLUENCE OF NITROGEN AND CERTAIN OTHER ELEMENTS ON THE CREEP-RUPTURE PROPERTIES OF WHOLLY AUSTENITIC TYPE 204 STEEL 67-12 M17-83247
INFLUENCE OF NITROGEN ON THE PROPERTIES OF AUSTENITIC CR-NI AND CR-NI-MO---CU-- STEELS 67-12 M17-83289
THE NATURE OF THE DEFORMATION OF CERTAIN AUSTENITIC STEELS AT LOW TEMPERATURES 67-12 M17-83312
LOCAL AND UNIFORM DUCTILITY, STRENGTH AND IMPACT STRENGTH OF KH18N10T STAINLESS STEEL AT HIGH AND LOW TEMPERATURE 67-12 M17-83530

AUSTENITIC STAINLESS STEELS, MELTING

PRODUCING HIGH-ALLOY STEELS WITH CONTROLLED DELTA FERRITE 67-07 M04-74139
A METHOD OF PRODUCING LOW-CARBON STAINLESS STEEL

67-09 M04-78008
INVESTIGATION OF THE REDUCING PERIOD IN ELECTROSMELTING OF KH18N10T STEEL
67-12 M04-81709
AUSTENITIC STAINLESS STEELS, METAL POWDERS
THE DETERMINATION OF RETAINED AUSTENITE BY X-RAY DIFFRACTION 67-04 M19-66294
AUSTENITIC STAINLESS STEELS, METAL WORKING
THE USE OF EXPLOSIVE ENERGY IN THE DEFORMATION AND WELDING OF METALS 67-01 M07-57990
DISCUSSION OF THE STRETCH-FORMABILITY
67-01 M08-58246
THERMOMECHANICAL TREATMENT OF HEAT-RESISTANT MARTENSITIC STEELS 67-02 M10-60293
STRENGTHENING OF ALLOY STEELS BY AUSFORMING
67-04 M07-67564
EXTRUDING DOWN PLUS FORGING UP GIVES HIGH HEAD-TO-SHANK RATIOS 67-05 M07-68303
STAINLESS STEEL WIRE SPRING 67-06 M08-72045
ON SOME PROPERTIES AND THE CONDITIONS FOR HOT PRESSWORKING STAINLESS HEAT PROOF STEEL
67-07 M07-73792
FORMATION OF SUB-SURFACE CRACKS DURING HOT ROLLING OF AUSTENITIC GRADE STAINLESS STEEL TUBES
67-08 M07-75727
MANUFACTURING THICK-WALLED LARGE-DIAMETER TUBES OF OKH18N12T STAINLESS STEEL 67-09 M07-76410
SOME PROPERTIES OF STAINLESS HEAT-RESISTANT STEEL AND HEAT-TREATMENT CONDITIONS FOR IT
67-09 M07-76555
COMPARISON OF DEEP DRAWING TESTS --RESULTS OF COOPERATIVE TESTING PROGRAM OF WORKING GROUP III OF THE INTERNATIONAL DEEP DRAWING RESEARCH GROUP-- 67-09 M17-76382
BETTER STAINLESS TUBE 67-10 M07-78864
PRACTICAL HINTS FOR COLD DRAWING
67-10 M07-79756
TOOL WEAR AND HEIGHT OF BURR IN CUTTING SHEET
67-10 M08-78700
STAINLESS STEELS IN TRANSPORTATION
67-12 M20-83296
AUSTENITIC STAINLESS STEELS, METALLOGRAPHY
THE INFLUENCE OF FOREIGN METAL IONS IN CHROMIC AND PHOSPHORIC ACID ELECTROLYTES ON THE FORMATION OF ETCH FIGURES ON IRON-SILICON FILMS
67-03 M13-65903
OBTAINING THIN FOIL FROM WELDED JOINT METAL FOR STUDY OF DISLOCATION STRUCTURE
67-04 M13-66441
THE EFFECT OF THE SURFACE CHARACTERISTICS OF 18/8 AUSTENITIC STAINLESS STEEL UPON MICROGRAPHIC ETCHING 67-06 M13-71503
METHOD OF REMOVING THIN FOIL FROM WELDED JOINTS FOR THE STUDY OF DISLOCATION STRUCTURES
67-07 M13-72700
AUSTENITIC STAINLESS STEELS, MICROSCOPY
METALLURGICAL INVESTIGATIONS WITH A 500 KV ELECTRON MICROSCOPE 67-06 M14-71545
AUSTENITIC STAINLESS STEELS, MICROSTRUCTURE
ISOLATION AND EASE OF ISOLATION OF OXIDE INCLUSIONS IN AUSTENITIC CR-NI STEELS
67-01 M19-57921
EXHIBITING THE FERRITE STRUCTURE IN 18-8 STAINLESS STEELS BY ELECTROLYTIC POLISHING
67-02 M13-60748
PRECIPITATION OF --FE, CR-- SIGMA PHASE FROM AUSTENITE 67-02 M14-60629
THE APPLICATION OF PHASE INTEGRATORS TO THE DETERMINATION OF INCLUSIONS AND THE VOLUMETRIC DETERMINATION OF SEGREGATION RANGES IN STEEL
67-04 M13-67204
CONDITIONS CONTROLLING MATRIX AND STACKING FAULT PRECIPITATION 67-04 M14-66548
AGING STRUCTURE AND HIGH-TEMPERATURE STRENGTH OF 18 CR-12 NI HEAT RESISTING STEEL CONTAINING BORON
67-04 M17-67565
STUDY OF FRACTURE SURFACES IN CR18NI9TI TYPE STAINLESS STEELS 67-04 M17-67850
INFLUENCE OF INDUCTION HEATING ON THE FINE STRUCTURE OF AUSTENITIC STAINLESS STEEL
67-05 M13-68379
EFFECT OF CERIUM ON STRUCTURE AND PROPERTIES OF OKH23N18 STEEL 67-05 M13-68557
EMMA-2, AN INSTRUMENT FOR ELECTRON-MICROSCOPIC AND X-RAY SPECTRAL MICROANALYSIS OF THIN FILMS AND EXTRACTION REPLICAS 67-05 M13-69637
THE SHOCK LOADING OF AUSTENITIC SINGLE CRYSTALS
67-05 M13-69746
OCCURRENCE OF BORON IN OXIDE INCLUSIONS IN STEEL
67-06 M13-70808
PROBLEMS IN THE DIRECT DETERMINATION OF GRAIN SIZE AT ELEVATED TEMPERATURES 67-06 M13-72160
CRYSTAL STRUCTURAL RELATIONSHIPS BETWEEN AUSTENITE AND CARBIDE PHASES IN AGED, AUSTENITIC STEEL
67-06 M13-72348
CHANGE IN THE STRUCTURE AND PROPERTIES OF HEAT RESISTANT STEELS IN WELD JOINTS OF STEAM LINES
67-06 M14-70155
EFFECT OF FISSION FRAGMENTS ON THE MICROSTRUCTURE OF AN AUSTENITIC STAINLESS STEEL
67-06 M14-70891
WELD JOINTS OF HEAT RESISTANT STEELS IN OPERATIONAL CONDITIONS 67-07 M11-73036
EFFECT OF CERIUM ON STRUCTURE AND PROPERTIES OF OKH23N18 STEEL 67-07 M13-72468
HIGH TEMPERATURE TENSILE PROPERTIES OF NEUTRON IRRADIATED 20 CR-35 NI AUSTENITIC STEEL
67-07 M13-73853
MICROSTRUCTURAL CHARACTERISTICS OF HIGH-TEMPERATURE FATIGUE FRACTURE OF 40KH12N8G8MV AUSTENITIC STEEL, SUBJECTED TO AUSFORMING
67-08 M13-74639
STUDY OF THE MICROCHARACTERISTICS OF STRAIN IN REAL ALLOYS 67-08 M17-75882
STRUCTURAL INVESTIGATIONS ON HIGH-NITROGEN CR-NI AUSTENITIC STAINLESS STEELS 67-09 M14-77826
STUDIES ON DEFORMED SUPERFICIAL LAYERS PRODUCED BY ABRASION IN 18-8 STAINLESS STEEL BY TRANSMISSION ELECTRON MICROSCOPY 67-11 M13-80954
STRUCTURAL CHANGES DURING CREEP OF AN AUSTENITIC ALLOY 67-12 M13-82347
AUSTENITIC STAINLESS STEELS, MOSSBAUER EFFECT
FE57 MOSSBAUER EFFECT IN NICKEL HYDRIDE
67-05 M16-68278
AUSTENITIC STAINLESS STEELS, OXIDATION
THE EFFECT OF FISSION FRAGMENT IRRADIATION UPON THE OXIDATION OF A 20 WT PER CENT CR, 25 WT PER CENT NI, NB STABILIZED STAINLESS STEEL BY OXYGEN AT 650 C 67-04 M18-67452
IDENTIFICATION OF A THIN OXIDE FILM ON 18CR-8NI STEEL 67-09 M18-76649
AUSTENITIC STAINLESS STEELS, PHASE TRANSFORMATIONS
THE MUTUAL EFFECTS OF TRANSFORMATION REACTIONS IN HEAT TREATMENTS CARRIED OUT IN A FLUCTUATING TEMPERATURE FIELD 67-02 M14-59915
X-RAY INVESTIGATION OF THE PROCESS OF DECOMPOSITION OF IRON-BASE HEAT RESISTANT AUSTENITIC STEELS
67-04 M14-66705
PRECIPITATION EFFECTS IN AUSTENITIC STAINLESS STEELS CONTAINING TITANIUM AND ALUMINIUM ADDITIONS 67-04 M14-66993
VARIATION OF PHASE COMPOSITION AND PROPERTIES OF 1KH14N14V2M AUSTENTIC STEEL DURING CREEP
67-04 M17-66844
INVESTIGATION OF THE PROCESSES OF DECOMPOSITION OF AUSTENITE IN 10KH8 CHROMIUM STEEL AT SUBCRITICAL TEMPERATURES 67-05 M14-68204
NEW QUANTITATIVE METHOD FOR THE STUDY OF TRANSFORMATIONS IN SOLID STATE.. APPLICATION TO DETERMINATION OF THE DEPTH OF THE DECHROMIZED ZONE IN 18-8 SENSITIZED STEEL
67-05 M14-69132
PRECIPITATION AND COAGULATION OF INTERMETALLIC PHASES IN MULTICOMPONENT IRON ALLOYS
67-05 M14-69265
OBSERVATIONS MADE WITH CARBURIZATION AND IRREVERSIBLE TRANSFORMATION OF IRON-CHROMIUM-NICKEL-CARBON ALLOYS 67-07 M14-73289
TRANSFORMATIONS IN NITROGEN-CONTAINING CR-MN-NI STEEL DURING TEMPERING 67-07 M14-74191
TRANSFORMATION OF DELTA FERRITE DURING A QUENCHING TREATMENT 67-08 M14-76211
THE STABILITY OF THE AUSTENITE IN CHROMIUM-NICKEL STAINLESS STEELS AND THEIR PROPERTIES AT LOW TEMPERATURES 67-09 M14-76957
CYCLIC MARTENSITIC TRANSFORMATION AND THE STRUCTURE OF A COMMERCIAL 18 CR-8 NI STAINLESS STEEL
67-11 M14-81334
AUSTENITIC STAINLESS STEELS, PHASES /STATE OF MATTER/
X-RAY DETERMINATION OF THE VOLUME FRACTION OF PHASES IN TEXTURED MATERIALS 67-02 M13-59435
EFFECTS OF NICKEL ON THE FORMATION OF SIGMA PHASE AND SOME CHANGES OF PROPERTIES IN 25 PER CENT CHROMIUM STEELS 67-02 M14-59978
PRECIPITATION DURING AGING AT 700 C. OF A COMMERCIAL AUSTENITIC STEEL CONTAINING TITANIUM AND ALUMINIUM 67-04 M14-67020
A STUDY OF PLASTIC DEFORMATION OF A DISCONTINUOUS

AUSTENITIC STAINLESS STEELS

SAMPLE 67-04 M17-68084
STRUCTURE OF ACID-RESISTING AUSTENITIC CHROMIUM-NICKEL-MOLYBDENUM STEEL X 5 CRNIMO 17 13 AND STRUCTURAL CHANGES 67-07 M14-73025
EFFECT OF CHROMIUM AND NICKEL ON ALPHA-PHASE FORMATION IN STRAINING AUSTENITIC STEELS 67-08 M14-75883
PHASE COMPOSITION AND PROPERTIES OF TWO-PHASE OKH21N6M2T STAINLESS STEEL 67-09 M14-77423
EFFECTS OF MANGANESE ON THE STRUCTURE AND PROPERTIES OF AUSTENITIC STEEL 67-10 M13-78925
FERRITE IN AUSTENITIC STAINLESS STEEL WELDS 67-10 M13-79478
PREFERRED TRANSFORMATION IN STRAIN-HARDENED AUSTENITE 67-12 M14-82964

AUSTENITIC STAINLESS STEELS, PHYSICAL PROPERTIES
INTERNAL FRICTION OF AUSTENITIC STEELS 67-04 M15-66855
STUDY OF ENERGY DISSIPATION DURING VIBRATIONS IN HEAT RESISTANT ALLOYS AT HIGH TEMPERATURES 67-04 M17-66856
STUDY OF THE PHYSICAL PROPERTIES OF OKH15N7M2YU, OKH17N4M2 AND OKH17N4 STEELS 67-06 M15-72375
SPECIAL STEELS FOR HIGH-TEMPERATURE SERVICE 67-07 M17-74270
HYDROGEN SATURATION OF STEELS AT ELEVATED TEMPERATURES AND HIGH PRESSURES 67-08 M14-74340
INERTIA OF EXOELECTRON EMISSION OF STRAINED METALS 67-08 M16-75889
A NEW HEAT-RESISTANT STEEL FOR INTERNAL COMBUSTION ENGINE EXHAUST VALVES 67-08 M20-75020
AISI TYPE 310 --HEAT AND CORROSION RESISTANT STEEL-- 67-09 M01-76527
EXOELECTRON EMISSION DURING SURFACE DEFORMATION OF AUSTENITIC STEELS AS A RESULT OF MICROIMPACT EFFECTS 67-11 M16-81408

AUSTENITIC STAINLESS STEELS, PIPELINES
ENGINEERING STUDIES SHOW POSSIBILITIES FOR LNG PIPELINE 67-11 M20-80513

AUSTENITIC STAINLESS STEELS, POWDER
SINTERED PARTS MADE OF STAINLESS STEEL POWDER 67-01 M09-57611

AUSTENITIC STAINLESS STEELS, POWDER METALLURGY
USE OF CERMET FILTERS FOR PURIFYING SAMPLES OF OPEN-HEARTH FURNACE FLUE GASES 67-02 M09-62215
EFFECT OF SMALL ADDITIONS OF COPPER ON SINTERING OF STAINLESS STEEL 67-04 M09-66094

AUSTENITIC STAINLESS STEELS, REACTIONS /CHEMICAL/
EFFECT OF NICKEL ON CARBON AND CHROMIUM BEHAVIOR IN THE PRODUCTION OF HIGH-CHROMIUM AND HIGH-NICKEL STAINLESS STEELS USING OXYGEN 67-04 M04-66026
NON-METALLIC INCLUSIONS IN CASTS OF 08KH20N10G6 STEEL WITH DIFFERENT HOT WORKING PROPERTIES 67-07 M13-74146
CATALYTIC ACTIVITY OF STAINLESS STEEL TUBES 67-08 M14-76294
THE COMPATIBILITY OF TYPE 316L STAINLESS STEEL WITH MIXED URANIUM-PLUTONIUM CARBIDES 67-09 M14-76351

AUSTENITIC STAINLESS STEELS, REFINING
ALLOYS FOR STAINLESS STEEL 67-09 M04-77581
COMPARATIVE INVESTIGATION OF THE HOT WORKABILITY OF THE STEEL X 10NICRWTI 36.15 MELTED IN A BASIC ELECTRIC ARC FURNACE AND AFTER REMELTING IN A MULTIPLE-CHAMBER ELECTRON BEAM FURNACE 67-12 M04-82691

AUSTENITIC STAINLESS STEELS, ROLLING
DETERMINING MAXIMUM STRAIN DURING COLD ROLLING OF TUBES FROM THE CONDITIONS OF METAL FAILURE 67-04 M07-66617
MARTENSITIC TRANSFORMATION IN 1KH15N9S3B STEEL DURING DEFORMATION 67-04 M07-67978
PRODUCTION OF FINNED TUBES BY ROLLING 67-07 M07-74002
DOUBLE ROLLING OF AUSTENITIC STAINLESS TUBES ON KHPT MILLS 67-08 M07-76279
TWO-STAGE ROLLING ON COLD-ROLLING MILLS OF AUSTENITIC STAINLESS STEEL TUBES 67-10 M07-79272
DECREASING THE WALL THICKNESS VARIATION IN TUBES BY USING TWO-ROW ROLLER ROLLING 67-11 M07-80862
SPECIFIC PRESSURE WHEN ROLLING BIMETALS BY THE PILE METHOD 67-11 M07-81654

AUSTENITIC STAINLESS STEELS, SOLDERING
THE SPREADING ABILITIES OF SOLDER ON STAINLESS STEEL SPRING 67-06 M12-70815

AUSTENITIC STAINLESS STEELS, SOLUBILITY
PRODUCING CHROMIUM-MAGNESIUM NITROGEN-ALLOYED AUSTENITIC STEEL 67-09 M04-77860

AUSTENITIC STAINLESS STEELS, SPECIFICATIONS
STAINLESS STEEL TUBING 67-07 M19-72933

AUSTENITIC STAINLESS STEELS, STEEL MAKING
THE ROLE OF THE GAS PHASE IN THE OXIDATION OF TITANIUM AND ALUMINUM DURING ELECTRO-MELTING OF STAINLESS STEEL 67-04 M04-66613
EFFECTIVENESS OF USING CHROME ORE IN PRODUCING ELECTRIC STEELS CONTAINING CHROMIUM 67-04 M04-67775

AUSTENITIC STAINLESS STEELS, SURFACE PROPERTIES
ELECTRON MICROSCOPIC ANALYSIS OF EROSION WEAR OF 1KH18N9T STAINLESS STEEL DEPENDING ON HEAT TREATMENT AND CAVITATION EXPOSURE TIME 67-05 M13-69019
INFLUENCE OF DEFORMATION AND SUBSEQUENT RECRYSTALLIZATION-FREE ANNEALING ON CAVITATION RESISTANCE OF 1KH18N9T STAINLESS STEEL 67-05 M17-69018

AUSTENITIC STAINLESS STEELS, THERMAL PROPERTIES
CAST STAINLESS ON TARGET FOR MOON SHOT 67-04 M15-67073
METALS WORKABLE AT HIGH TEMPERATURES AND UNDER STRONG PRESSURE--THEIR CHARACTERISTICS, USE AND APPLICATION TO PETROLEUM CHEMISTRY 67-04 M15-67295
HEAT BALANCE IN WELDING WITH A PULSED LOW-AMPERE ARC 67-08 M11-75404
THE THERMAL BALANCE FOR WELDING WITH PULSED LOW POWER ARCS 67-12 M11-82025

AUSTENITIC STAINLESS STEELS, THIN FILMS
ASPECTS OF PRECIPITATION IN AN 18-10 STAINLESS STEEL CONTAINING MOLYBDENUM AND PHOSPHORUS ADDITIONS 67-11 M14-80241

AUSTENITIC STAINLESS STEELS, TUBEMAKING
CAUSES FOR CRACK DEFECTS IN HOT ROLLED TUBES OF AUSTENITIC STAINLESS STEELS 67-06 M07-71258
PRODUCTION OF GRADE EI711 STEEL TUBES 67-07 M07-74080

AUSTENITIC STAINLESS STEELS, WEAR
ANTIFRICTION PROPERTIES OF BORON NITRIDE DURING DRY FRICTION IN GASEOUS MEDIA AND AT LOW TEMPERATURES 67-08 M17-75853

AUSTENITIC STAINLESS STEELS, WELD DEPOSITED COATINGS
INFLUENCE OF FERRITE ON CRYSTALLIZATION OF AUSTENITIC DEPOSIT WELDED METAL AND FORMATION OF HOT CRACKS 67-06 M11-71641
INFLUENCE OF FERRITE ON THE CRYSTALLISATION OF AUSTENITIC WELD METAL AND THE FORMATION OF HOT CRACKS DURING WELDING 67-10 M11-79608

AUSTENITIC STAINLESS STEELS, WELDED JOINTS
FATIGUE STRENGTH OF WELDED JOINTS AT LOW TEMPERATURE 67-02 M17-60663
INFLUENCE OF THE MECHANICAL HETEROGENEITY OF WELDED JOINTS IN AUSTENITIC STEELS ON THEIR SUSCEPTIBILITY TO LOCAL FAILURE 67-12 M11-82242

AUSTENITIC STAINLESS STEELS, WELDING
TIME-TEMPERATURE DEFORMATIONS DURING ELECTROSLAG WELDING 67-01 M11-57390
ARC WELDING HEAT-RESISTANT STEELS 67-01 M11-57529
FOR AUSTENITIC STAINLESS WIRES--LIMIT THE LIMITS 67-01 M11-58017
MANUAL ARGON-ARC WELDING OF JOINTS FROM THIN ELEMENTS 67-01 M11-58211
SUBMERGED ARC WELDING OF KH25 N20S2 HEAT-RESISTANT AUSTENITIC STEEL AND KH18N35S3 ALLOY 67-01 M11-58276
TECHNIQUES APPLIED IN JOINING PIPES FOR PETROLEUM INDUSTRY 67-01 M11-58349
TST-23 ELECTRODES FOR WELDING TYPE KH16N14V2BR HEAT-RESISTANT STEELS 67-02 M11-59517
WELDED JOINTS BETWEEN FERRITIC AND AUSTENITIC STEELS 67-02 M11-59726
WELDABILITY AND MAJOR WELDING PROCESSES FOR STAINLESS STEELS 67-02 M11-59803
AN ELECTRODE FOR WELDING 18-8 ACID-RESISTANT STEEL 67-02 M11-61054
THE RESISTANCE OF CHROMIUM-NICKEL WELDS TO GAS CORROSION IN AN ATMOSPHERE CONTAINING SULFUR COMPOUNDS 67-02 M11-61057
ARC WELDING OF HIGH TEMPERATURE STEELS 67-02 M11-61148
INVESTIGATION OF THE TECHNOLOGICAL POTENTIALITIES OF PULSATION WELDING 67-02 M11-61260

REGULATING THE AMOUNT OF FUSION IN ARC WELDING OF NONROTATED BUTT WELDS IN TUBES 67-02 M11-61262
WELDING ST. 3 STEEL TO KH18N10T STEEL WITH UONI-13/45 ELECTRODES 67-02 M11-61266
WELDING THIN-WALLED STAINLESS STEEL TUBES BY BUTT SPIRAL SEAMS 67-02 M11-61269
HOW TO CONTROL DILUTION IN WELD OVERLAYS. PT. 2 67-02 M11-61816
SOME NOTES ON THE MANUAL ARC WELDING OF LOW-TEMPERATURE HIGH-STRENGTH STEELS 67-02 M17-60106
.ACID-RESISTANT STEELS AND THEIR DEVELOPMENT 67-02 M20-61055
WELDING OF SPECIAL AND COMMON STEEL PIPE 67-03 M11-65062
CRACKING AND FERRITE CONTENT IN AUSTENITIC STAINLESS WELDS 67-04 M11-66249
NEW MICROPLASMA ARC PROCESS FOR JOINING MICROSIZED PARTS 67-04 M11-66396
THE EFFECTS OF NICKEL ON WELDS CONTAINING 20-22 PER CENT CHROMIUM 67-04 M11-66520
BORON-ALLOYED AUSTENITIC STEELS AND ALLOYS FOR WELDED STRUCTURES 67-04 M11-66811
FLASH-BUTT WELDING OF HIGH-AUSTENITIC SHEET STEELS 67-04 M11-67014
THE SUBMERGED ARC WELDING OF KH25N20S2 STEEL AND KH18N35S3 ALLOY 67-04 M11-67357
BUILDUP WITH A MELTED FILLER METAL 67-04 M12-66572
AN INVESTIGATION INTO THE TECHNOLOGICAL POSSIBILITIES OF THE PULSED ARC 67-05 M11-68260
REGULATING THE REINFORCEMENT IN UNROTATED PIPE JOINTS MADE BY ARC WELDING 67-05 M11-68262
WELDING STEEL ST. 3 TO STEEL KH18N10T WITH UONI-13/45 ELECTRODES 67-05 M11-68266
BUTT WELDING OF 0.2-0.3 MM WIRE IN THE PRODUCTION OF WIRE GAUZE 67-05 M11-68268
SPIRAL BUTT WELDS IN THIN WALLED STAINLESS STEEL TUBES 67-05 M11-68269
WELDED JOINTS OF LOW-TEMPERATURE STEELS IN THE CONSTRUCTION OF PRESSURE VESSELS 67-06 M11-70462
EXPERIENCES IN CONSTRUCTION AND OPERATION OF THE ICI TUBULAR REFORMER AT THE EFFINGHAM STREET WORKS OF THE EAST MIDLANDS GAS BOARD 67-06 M11-70541
ELECTROSLAG WELDING HELPS ESCO FABRICATE LARGEST STAINLESS NUCLEAR PUMPS 67-06 M11-71038
MATERIAL PROPERTIES OF STAINLESS STEEL WELDS DEPOSITED BY THE SUBMERGED ARC WELDING TECHNIQUE 67-06 M11-71575
MECHANIZED VERTICAL WELDING UTILIZING THE GAS METAL-ARC PROCESS 67-06 M11-71679
SELECTION OF THE OPTIMUM COMPOSITION OF AUSTENITIC CR-NI STEELS FOR WELDED STRUCTURES 67-06 M11-71854
THE MECHANISM OF HOT CRACKING DURING WELDING 67-07 M11-72730
WELDING METHODS TO PRODUCE TUBES AND SHAPES. PT. 1 67-07 M11-73710
BUILDING UP BY POURING MOLTEN FILLER METAL ONTO THE WORK 67-07 M12-73429
WELDABLE AUSTENITIC MATERIALS FOR THE TEMPERATURE RANGE FROM 500 TO 700 C 67-08 M11-74449
PROGRAMMING THE CONDITIONS FOR PULSATING ARC WELDS ON PIPES 67-08 M11-74765
FLASH WELDING OF AUSTENITIC SHEET STEELS 67-08 M11-74773
SUBMERGED ARC WELDING OF STAINLESS STEELS 67-08 M11-75359
STAINLESS FOIL TO 0.001-IN. THICK TIG WELDED 67-08 M11-75528
AUSTENITIC STEELS AND ALLOYS, ALLOYED WITH BORON, FOR WELDED STRUCTURES 67-08 M11-75915
SIGMA AND 885 F. EMBRITTLEMENT OF CHROMIUM-NICKEL STAINLESS STEEL WELD METALS 67-09 M11-77950
ARC BUTT WELDS BETWEEN STEAM SUPERHEATER TUBES MADE OF GRADES 12KH1MF AND 1KH18N12T --1KH18N12T-- STEELS 67-09 M11-78096
THE KSLA HOT CRACK TESTING APPARATUS 67-09 M11-78151
POWDER FILLED WIRE FOR THE SEMI-AUTOMATIC WELDING OF KH18N10T STEEL 67-10 M11-79618
PROBLEMS OF MATERIALS OF WELDED STRUCTURES OF AUSTENITIC HEAT RESISTANT BOILER PLATE STEELS 67-10 M11-79788
EFFECTS OF NITROGEN AND HELIUM SHIELDING MIXTURES ON SEMIAUSTENITIC STAINLESS STEEL WELDS 67-10 M11-79952
INTEGRITY OF ATTACHMENT WELDS TO SUPERHEATER TUBING 67-11 M11-80281
WELDING THICK-WALLED STAINLESS STEEL CHEMICAL APPARATUS 67-11 M11-80545
SELECTING RATIONAL AUSTENITIC CHROMIUM-NICKEL STEELS FOR WELDED STRUCTURES 67-11 M11-80886
THE EFFECTS OF DROPLET TEMPERATURE AND THE KINETICS OF ELECTRIC FUSION ON THE NITROGEN SATURATION OF METAL 67-11 M11-81576
AUTOMATIC WELDING OF STRUCTURES IN KH18N10T STEEL AND EI602 ALLOY 67-12 M11-81917
INFLUENCE OF ACCELERATED VOLTAGE PULSATIONS ON SEAM PARAMETERS IN ELECTRON BEAM WELDING 67-12 M11-82625
MATERIAL AND WELDING PROBLEMS IN REACTOR CONSTRUCTION WITH EMPHASIS ON ELECTRON-BEAM WELDING 67-12 M11-83147
INFLUENCE OF PREHEATING ON RESIDUAL STRESSES IN STEAMPIPES OF 1KH18N9T STAINLESS STEEL 67-12 M11-83188
EFFECT OF SHIELDING GAS COMPOSITION ON THE PROPERTIES OF WELDS 67-12 M11-83508
MECHANISM OF HOT CRACKING DURING WELDING 67-12 M13-82309

AUSTENITIC STAINLESS STEELS, WELDING ELECTRODES
TST-23 ELECTRODES FOR WELDING KH16N14V2BR TYPE STEELS 67-04 M11-66466

AUSTENITIC STAINLESS STEELS, WIRE
SPECIAL FEATURES IN THE PRODUCTION OF STAINLESS STEEL SPRING WIRE 67-07 M17-74150

AUSTENITIZING
THE EFFECTS OF VARIOUS FACTORS ON THE CONCENTRATING PROCESS OF ALLOYING ELEMENTS INTO CEMENTITE 67-01 M14-58330
HEAT TREATING CRANKSHAFTS 67-02 M10-59456
ISOTHERMIC TREATMENT OF STEEL WIRE IN FURNACES WITH SALT BATHS 67-02 M10-60259
INVESTIGATION, FOR THE CASE OF WELDING, OF A RELATION BETWEEN TIME AND TEMPERATURE OF AUSTENIZATION 67-02 M14-59993
FORMATION OF GAMMA PHASE IN QUENCHED IRON AND ALLOYED FERRITE 67-02 M14-61220
FORMATION OF AUSTENITE IN FERRITIC MALLEABLE IRON 67-02 M14-61749
KINETICS OF AUSTENITE FORMATION IN MAGNESIUM CAST IRON DURING INDUCTION HEATING 67-02 M14-62004
KINETICS OF INDUCTION HEATING OF SILICON-ALLOYED STEEL 67-03 M10-65968
INFLUENCE OF AUSTENITIZING TEMPERATURE ON STABILITY OF SUPERCOOLED AUSTENITE IN REINFORCING STEELS 67-04 M10-66365
TRANSFORMATION PLASTICITY DURING THE TEMPERING OF MARTENSITE AND THE TRANSFORMATION OF AUSTENITE TO BAINITE IN A MEDIUM-ALLOY STEEL 67-04 M14-66986
EFFECT OF HEATING RATE ON THE ELEVATION OF THE CRITICAL TEMPERATURES OF LOW-CARBON MILD STEEL 67-04 M14-67193
KINETICS OF GROWTH OF AUSTENITE GRAINS IN 30KHGT STEEL 67-04 M14-67448
EFFECT OF PRELIMINARY HEAT TREATMENT AND ALUMINUM NITRIDES ON AUSTENITE GRAIN GROWTH 67-04 M14-67852
INFLUENCE OF ULTRASONIC VIBRATION ON GRAIN GROWTH OF AUSTENITE DURING ANNEALING 67-05 M10-69510
MORPHOLOGY OF MARTENSITE OF HYPOEUTECTOID CARBON STEEL AFTER REAUSTENITIZING 67-06 M10-70357
ACTIVATION ENERGY OF AUSTENITE FORMATION IN STEEL 67-06 M10-71126
FORMATION OF AUSTENITE IN TUNGSTEN STEELS 67-06 M14-70073
NUCLEATION OF AUSTENITE ON HEATING MALLEABLE CAST IRON 67-06 M14-70360
INCREASED RELIABILITY OF A HIGH-STRENGTH STEEL THROUGH THERMAL-MECHANICAL TREATMENTS 67-06 M17-71081
STRENGTHENING AUSTENITIC MANGANESE STEEL BY HEAT TREATMENT AND AUSROLLING 67-08 M04-74586
FROM ROLL-HARDENING TO THE 40-MVA RESISTANCE HEATING OF STEEL AND ITS AUSTENITE GRAIN SIZE 67-08 M10-75105
TREATMENT OF ALLOYED STRUCTURAL STEELS TO PREVENT THE FORMATION OF FLOCCULES 67-08 M10-76103
STUDY OF THE KINETICS OF THE ISOTHERMAL

AUSTENITIZING
TRANSFORMATION OF AUSTENITE IN 20KHGNR STEEL 67-08 M14-74341
SOME ASPECTS OF AUSTENITE FORMATION KINETICS IN INDUCTION HEATED MAGNESIUM-TREATED CAST IRON 67-08 M14-76087
FORMATION OF AUSTENITE IN TUNGSTEN STEELS 67-10 M14-78819
EFFECT OF THE AUSTENITIZATION TEMPERATURE ON THE STABILITY OF SUPERCOOLED AUSTENITE IN REINFORCING STEELS 67-11 M10-80967
RAPID REAUSTENITIZING OF AN FE-NI-C ALLOY 67-11 M10-81141
AUSTENITIZING, ALLOYING EFFECTS
BASIC FACTORS INFLUENCING THE AUSTENITIZING TEMPERATURES OF STEELS 67-07 M10-73839
AUSTENITIZING, AUTOMATION
FINISHING AND HEAT TREATMENT OF HEAVY PLATES 67-08 M10-74752
AUSWORKING
SEE ALSO AUSROLLING
LOW-TEMPERATURE THERMOMECHANICAL TREATMENT OF WIRE 67-05 M07-68562
AUSFORMING WIRE DRAWING 67-07 M07-72473
THE EQUIPMENT, TECHNIQUES AND USES OF THERMO-MECHANICAL TREATMENTS 67-09 M07-77712
THE EFFECT OF THERMOMECHANICAL TREATMENTS ON THE PROPERTIES AND STRUCTURES OF ALLOY STEELS 67-10 M07-78394
AUTO OXIDATION
SEE OXIDATION
AUTOCLAVES
AUTOCLAVE LEACHING OF NICKEL MATTES 67-02 M03-59191
SOLUBILITY OF BINARY NICKEL AND IRON SULFIDES DURING OXIDIZING SULFURIC ACID LEACHING IN AUTOCLAVES 67-02 M03-60563
AUTOCLAVES, CORROSION
CORROSION OF AUTOCLAVE JACKETS SUBJECTED TO A STEAM-WATER CYCLE 67-11 M18-81553
AUTOCLAVING
DECOMPOSITION OF TANTALITE CONCENTRATES BY CAUSTIC POTASH AND CAUSTIC SODA SOLUTIONS AT ELEVATED TEMPERATURES AND PRESSURES 67-02 M03-59879
AUTOCLAVE BAKING OF CARBON-GRAPHITE MATERIALS 67-02 M05-61283
AUTOCLAVE TECHNOLOGY OF PRODUCING COPPER POWDERS 67-02 M09-60560
LEACHING ROASTED ZN-CU-PB CONCENTRATES WITH SULFURIC ACID UNDER PRESSURE 67-04 M02-67857
PROBLEMS OF BAUXITE TREATMENT 67-09 M03-77030
AUTOCLAVE RECOVERY OF PEROVSKITE CONCENTRATES 67-11 M02-81227
ON THE AUTOCLAVE SALT LEACHING OF COBALT-BEARING SEMIFINISHED PRODUCTS FROM THE NICKEL INDUSTRY 67-12 M03-83317
AUTOCRUCIBLE MELTING
SEE SKULL MELTING
AUTODIFFUSION
SEE DIFFUSION
AUTOGENOUS MILLS
SEPARATE CIRCUIT FLOTATION OF COPPER AND COPPER-ZINC ORES AFTER AUTOGENOUS GRINDING 67-05 M02-68770
AUTOGIROS
SEE HELICOPTERS
AUTOMATIC CONTROL
SCHEMATIC OF A COMPUTER APPARATUS FOR DETERMINING CARBON CONTENT IN OPENHEARTH POOL 67-01 M04-57195
FRENCH EXPERIMENTS FOR CONTROLLING THE BLAST FURNACE OPERATION USING A COMPUTER ON LINE 67-01 M04-57501
THE BLAST FURNACES OF USINOR, DUNKIRK 67-01 M04-57503
SPENCER WORKS IRONMAKING PLANT 67-01 M04-57504
THE NEW C-3 BLAST FURNACE-CLEVELAND WORKS JONES AND LAUGHLIN STEEL CORPORATION 67-01 M04-57505
AMANDA BLAST FURNACE, ASHLAND WORKS ARMCO STEEL CORPORATION 67-01 M04-57506
COMPUTER CONTROL OF THE BASIC OXYGEN PROCESS 67-01 M04-57906
COMPUTER CONTROL IN IRON FOUNDRIES 67-01 M06-58730
OPERATION AND USE OF DATA PROCESSING PLANTS IN ROLLING MILLS 67-01 M07-58110
FULLY AUTOMATIC HYDRAULIC PRESS FOR THE MANUFACTURE OF BLOCK ANODES 67-01 M07-58225
TECHNICAL AND ECONOMIC CONSIDERATIONS IN PLATE MILL PROCESS CONTROL 67-01 M07-58490
INLANDS 80-IN. HOT STRIP MILL 67-01 M07-58493
AUTOMATED THREAD ROLLING 67-01 M08-58497
THE JOB AND THE FURNACE ATMOSPHERE 67-01 M10-57549
AUTOMATED WELDING OF LIGHT ALLOY STRUCTURES 67-01 M11-57147
POLISHING--MANUAL AND MECHANICAL 67-01 M12-57559
ELECTROLYTIC POLISHING AND DEBURRING 67-01 M12-58611
MODERN METHODS OF METALLURGICAL CONTROL IN THE IRON FOUNDRY 67-01 M19-58118
COMPUTER CONTROL IMPROVES METALLURGY AT TENNESSEE COPPERS FLOTATION PLANT 67-02 M02-59496
DEVICE FOR CONTROL AND REGULATION OF THE END OF THE SINTERING PROCESS 67-02 M02-59868
APPARATUS FOR CONTROL OF ALUMINA PRODUCTION 67-02 M03-59193
USE OF COMPUTERS FOR CENTRALIZED CONTROL OF TITANIUM SPONGE MANUFACTURING 67-02 M03-59195
USE OF THE CONTENT OF ANODIC GASES FOR CONTROL OF THE CURRENT EFFICIENCY IN ALUMINUM REDUCTION CELL 67-02 M03-60539
FUTURE DEVELOPMENTS IN CONTINUOUS CASTING 67-02 M04-59139
CALCULATING THE INDEXES OF BLAST FURNACE HEAT STATE 67-02 M04-60054
REPUBLIC STEEL DEDICATES CLEVELAND BOF SHOP 67-02 M04-60226
SOME PROBLEMS IN OBTAINING WORKING INFORMATION ON THE TECHNOLOGICAL PARAMETERS OF OPENHEARTH PRODUCTION 67-02 M04-61207
AUTOMATIC TEMPERATURE REGULATION IN HOLDING FURNACES FOR DIE CASTING OPERATIONS 67-02 M06-60505
AUTOMATIC GAGE CONTROL --AGC-- OF HOT STRIP MILL AT SAKAI STEEL WORKS 67-02 M07-58939
COMPUTER ROLLS HOT SHEETS 67-02 M07-59002
CONFIDENCE IN ALUMINIUM 67-02 M07-59487
NEW ELECTRICAL FURNACES FOR REHEATING SLAB 67-02 M07-59818
DESIGN AND OPERATION OF AUTOMATIC GAGE CONTROL ON A 68-IN. HOT STRIP MILL 67-02 M07-60236
A NEW BEAM MILL 67-02 M07-60695
IMPROVED EFFICIENCY OF ROLL CHANGE OPERATION AT SHAPE MILL BY USING PERT METHOD 67-02 M07-60756
ALGORITHM FOR CALCULATING REDUCTION IN A BLOOMING MILL 67-02 M07-61217
COMPUTERS CONTROL TUBE ROLLING 67-02 M07-61855
A CONTROL ALGORITHM FOR AN AUTOMATING SYSTEM FOR PLATE MILLS 67-02 M07-62237
HOW STEEL GETS QUENCHED AND TEMPERED 67-02 M10-61815
EXAMPLES OF AUTOMATION IN FUSION ARC WELDING 67-02 M11-59755
COMPUTER APPLICATIONS IN THE CONTROL OF THE LD PROCESS IN A CONVERTER STEEL WORKS 67-03 M04-65077
NIPPON KOKANS STEELWORKS IN THE SEA 67-03 M04-65678
REVOLUTIONARY CASTING TECHNIQUES UNVEILED BY CHRYSLER 67-03 M06-65601
BETHLEHEMS BURNS HARBOR HOT STRIP MILL IS IN PRODUCTION 67-03 M07-65926
RESEARCH TEAM LEANS ON COMPUTER TO CONTROL WELD VARIABLES 67-03 M11-65618
AUTOMATIC PICKLING OF BRASS AND COPPER WIRE 67-03 M12-65121
THE CLEANING AND DEGRAPHITIZATION OF CAST IRONS 67-03 M12-65454
EUROPES BIGGEST ALUMINIUM PRE-PAINT LINE 67-03 M12-65699
AN OXYGEN BALANCE FOR CARBON LEVEL CONTROL AT NEWCASTLE AND WHYALLA PLANTS 67-04 M04-66114
AN ALGORITHM FOR CONTROLLING THE TECHNOLOGICAL PROCESS OF RUNNING OXYGEN-BLOWN CONVERTERS 67-04 M04-66708
ENERGY RATE INPUT CONTROL OF ARC FURNACES 67-04 M04-67189
AUTOMATIC INVESTMENT CASTING 67-04 M06-66686
EXPERIMENTAL USE OF AUTOMATIC REGULATION OF STRIP THICKNESS ON THE CONTINUOUS 2500 THIN PLATE MILL 67-04 M07-66212
UNIVERSAL BEAM AND SECTION MILL AT SHELTON IRON & STEEL LTD 67-04 M07-66325
COMPUTERIZED HOT MILL SWELLS U. S. STEEL SHEET PRODUCTION 67-04 M07-66400

DIGITAL TRACKING SYSTEM 67-04 M07-66403
COMPUTER-CONTROLLED CONTINUOUS TUBE MILL 67-04 M07-66700
PRE-STRESSED MILL FOR EXTRA-THIN TINPLATE 67-04 M07-67405
LONG TUBES, LONG PARTS--HEIL CUTS CYLINDER COSTS 67-04 M08-68102
OPEN-COIL ANNEALING 67-04 M10-66727
DEGREE OF ERROR IN MEASURING TEMPERATURE IN AUTOMATICALLY CONTROLLED HEATING 67-04 M10-67623
COMMISSIONING A NEW ROLLER-HEARTH TUNNEL FURNACE FOR THE HEAT TREATMENT OF TUBES OF STEEL SHKH15 67-04 M10-68198
AUTOMATIC PICKLING OF WIRE 67-04 M12-66678
AN EXPERIMENTAL, CONTINUOUSLY REGENERATED ELECTROLESS NICKEL PLATING FACILITY 67-04 M12-66717
MANUAL AND AUTOMATIC POLISHING 67-04 M12-67709
FLEXIBLE PERFORMANCE PLATER 67-04 M12-68165
NEW PRODUCTION LINE TO SATISFY INCREASING DEMAND FOR PYRENES TEST PANELS 67-05 M01-68908
REGULATION OF THE DL SINTER STRAND IN HADIR-DIFFERDINGEN 67-05 M02-68535
SINTER PLANT CONTROL 67-05 M02-69170
USE OF AN ANALOG COMPUTER TO DEVELOP A SYSTEM FOR CONTROLLING THE CHLORINATION OF TI SLAGS IN MELT 67-05 M03-68980
AUTOMATION OF PRODUCTION CONTROL IN AN OXYGEN CONVERTER WITH SHUTDOWN AT A SPECIFIED CARBON CONTENT 67-05 M04-68545
AUTOMELT SYSTEM FOR BASIC OXYGEN STEELMAKING COMPUTER CONTROL 67-05 M04-68602
NEW SYSTEM FOR THE AUTOMATION OF THE BLAST FURNACE PROCESS 67-05 M04-69067
AUTOMATIC DETERMINATION OF THE CARBON DIOXIDE CONTENT IN THE GAS ALONG A BLAST FURNACE THROAT RADIUS 67-05 M04-69078
INDUSTRIAL COMPUTER APPLICATIONS IN THE MANUFACTURE OF CAST IRON AND STEEL 67-05 M04-69138
BLAST FURNACE CHARGING 67-05 M04-69171
OXYGEN STEELMAKING 67-05 M04-69172
ARC FURNACE ELECTRODE CONTROL 67-05 M04-69173
CONTINUOUS CASTING 67-05 M04-69174
THE COMPUTERS ROLE IN STEEL PLANT AUTOMATION 67-05 M04-69175
AUTOMATIC CONTROL OF STEEL CONTINUOUS CASTING STRANDS 67-05 M06-69079
ON THE IMPORTANCE OF THE PASS SEQUENCE IN THE AUTOMATION OF A BLOOMING MILL 67-05 M07-68540
A MECHANIZED METHOD OF EXPANDING TUBES WITH AUTOMATIC QUALITY CONTROL 67-05 M07-69044
ADAPTIVE CONTROL UPGRADES HOT ROLLING MILL 67-05 M07-69152
REVERSING HOT MILLS AND THEIR AUXILIARIES 67-05 M07-69176
CONTINUOUS HOT MILLS 67-05 M07-69177
THEORETICAL ASPECTS OF HOT MILL AUTOMATION 67-05 M07-69178
COLD MILLS 67-05 M07-69179
SPECIAL MILLS 67-05 M07-69180
PINION OUTPUT DOUBLED WITH AUTOMATIC PLUNGE FORM GRINDING 67-05 M08-68662
CONTROLLING MODERN FLYING SHEARS 67-05 M08-69181
AUTOMATIC PICKLING OF BRASS AND COPPER WIRE 67-05 M12-68808
DEVELOPMENTS IN ELECTROSTATIC SPRAY PAINTING AND FLUIDIZED BED COATING 67-05 M12-68825
TAPE CONTROLS PLATING AT GM 67-05 M20-68437
AUTOMATION OF BAR AND ROD MILLS 67-05 M20-69484
PROCESS CONTROL IN ORE CONCENTRATION 67-06 M02-70823
MODELING THE OXYGEN CONVERTER PROCESS ON A COMPUTER 67-06 M04-70269
OPERATIONAL ANALYSIS OF STEELMAKING IN OXYGEN CONVERTERS USING THE DNEPR COMPUTER 67-06 M04-70910
COMPREHENSIVE PARAMETERS FOR OPENHEARTH FURNACE AUTOMATION 67-06 M04-70944
BUILDING CONTROLS FOR ARC FURNACE OPERATION 67-06 M04-70945
MCLOUTH STEEL INSTALLING SLAB INDUCTION HEATING FACILITY FOR CONTINUOUS OPERATION 67-06 M04-71004
RADIOISOTOPE APPARATUS IN THE IRON AND STEEL INDUSTRY 67-06 M04-71118
INSTANTANEOUS THERMAL BALANCES SERVE AS AUTOMATION AID IN OPENHEARTH HEAT CONTROL 67-06 M04-71362
PROGRAMED ELECTROSLAG REMELTING 67-06 M04-71373
DESIGN AND OPERATION OF A FLAME TEMPERATURE COMPUTER ON A BLAST FURNACE 67-06 M04-72079
SOME CONSIDERATIONS RELATING TO BLAST FURNACE AUTOMATION. PT. 3. EXAMINATION OF BLAST FURNACE OPERATION 67-06 M04-72400
MAKING NODULAR IRON CASTINGS AT MCKINNON INDUSTRIES 67-06 M06-70590
MALLEABLE FOUNDERS COMPLETE EXPANSION SCHEME 67-06 M06-71232
AUTODOMS FOUNDRIES BIGGER, BETTER 67-06 M06-71884
HOT SHEET-ROLLING MILL UNDER COMPUTER CONTROL 67-06 M07-70249
LATROBE TAKES AIM ON HIGH-SPEED ROLLING 67-06 M07-70484
AUTOMATION OF THE DUO-800 MILL FOR HOT ROLLING NONFERROUS METALS ON CONTACTLESS CONTROL DEVICES 67-06 M07-70737
PROCESS CONTROL AND AUTOMATION OF SHEET AND WIDE STRIP MILLS 67-06 M07-70827
AUTOMATION OF THE CONTINUOUS THREE-STAND 1000 MILL FOR COLD ROLLING NONFERROUS METALS 67-06 M07-71394
CONTROL OF A SINGLE STRAND COLD STRIP MILL 67-06 M07-72098
AUTOMATIC CONTROL OF THE PROCESS OF FULL THICKNESS INDUCTION HEATING 67-06 M10-70350
WELDING AND THE COMMERCIAL VEHICLE BODY REPAIRER 67-06 M11-70858
MECHANIZATION AND AUTOMATION IN SOLVENT DEGREASING PROCESSES 67-06 M12-70199
ALCAN COIL COATER HITS 300 FPM 67-06 M12-70866
MECHANIZED FLAW DETECTION--CHECKS VITAL CAR COMPONENTS 67-06 M19-71203
STEELMAKING.. A GROWING ROLE FOR COMPUTERS AND CONTROLS 67-06 M20-70687
AUTOMATIC SEPARATION OF CU FROM NICKEL ELECTROLYTE IN FLUID BED CEMENTATORS 67-07 M03-73410
MATHEMATICAL MODELING OF THE PROCESSES AT COPPER SMELTING MILL 67-07 M03-73413
INFLUENCE OF CURRENT INSTABILITY IN A SERIES ON THE PERFORMANCE OF ALUMINUM ELECTROLYTIC CELLS 67-07 M03-73416
AUTOMATIC REGULATION OF OXYGEN-BLOWN CONVERTER BLOWS TO PRODUCE STEEL WITH A PRESCRIBED CARBON CONTENT 67-07 M04-72456
ON THE ELECTRIC ARC FURNACE, WITH SPECIAL REFERENCE TO LARGE CAPACITY UNITS FOR STEEL PRODUCTION 67-07 M04-72547
INTRODUCTION OF COMPUTERIZED CONTROL TO OPENHEARTH FURNACE OPERATION 67-07 M04-72566
ANALOG SIMULATOR FOR THE ANALYSIS OF THE PROCESS OF SOLIDIFICATION OF STEEL IN CONTINUOUS CASTING. PT. 1. STUDY OF CONTINUOUS CASTING 67-07 M04-72571
STOCKLINE MEASUREMENT IN BLAST FURNACES WITH RADIOACTIVE ISOTOPES 67-07 M04-72712
USE OF DIGITAL COMPUTERS IN OXYGEN STEEL PLANTS 67-07 M04-72903
AUTOMATIC SLAG CONTROL IN THE BASIC OXYGEN PROCESSES 67-07 M04-73030
LABORATORY ELECTRIC CONVERTER 67-07 M04-73050
BLAST FURNACE CHARGING 67-07 M04-73327
DIGITAL COMPUTER USED FOR CONTROLLING OXYGEN-BLOWN CONVERTER BLOWS 67-07 M04-74065
INVESTIGATION OF THE CONTROL OF GAS FLOW IN BLAST FURNACES BY AUTOMATIC BLAST DISTRIBUTION 67-07 M04-74103
PROCESS CONTROL ON THE POURING FLOOR 67-07 M06-73613
ON-LINE CUPOLA CONTROL WITH A COMPUTER 67-07 M06-73614
METAL CASTING INNOVATED BY CHRYSLERS NEW FOUNDRY 67-07 M06-73838
THE APPLICATION OF COMPUTERS IN AN ELECTRIC-ARC MELTING SHOP 67-07 M06-74011
REPUBLIC STEELS NEW PLATE MILL AT GADSDEN 67-07 M07-72775
TOOLING FOR ACCURATE EXTRUSION BENDING 67-07 M07-72797
OPTIMIZING THE PERFORMANCE OF A UNIVERSAL PLATE MILL BY COMPUTER 67-07 M07-72801
CONTROL OF A MULTISTAND HOT-STRIP MILL 67-07 M07-72900

PUSHBUTTON STRETCH FORMER USES ARCED, ROTATING JAWS 67-07 M07-72930
MODERNIZATION OF THE ANGLE SECTION MILL AT DISTRICT IRON AND STEEL COMPANY, LIMITED 67-07 M07-73087
STRIP THICKNESS REGULATION FOR REVERSING COLD ROLLING MILLS 67-07 M07-74021
IMPROVING ROLLING TECHNOLOGY AND DESIGN OF THE FINISHING STANDS IN PLANT INCLUDING AUTOMATIC MILLS 67-07 M07-74079
MACHINING CLOSE TOLERANCE CASTINGS ON A CHUCKING AUTOMATIC 67-07 M08-72986
MACHINING OPERATIONS ON ROCKER SHAFT COMPONENTS 67-07 M08-73371
HIGH-PRODUCTIVITY LINE MACHINES 28,000 VALVES A DAY 67-07 M08-73445
AUTOMATION OF THE HEAT CAMPAIGN OF REGENERATIVE SOAKING PITS 67-07 M10-73793
THE APPLICATIONS AND ADVANTAGES OF AIR COILS --OR PNEUMATIC COILS-- FOR A CONTINUOUS AUTOMATIC RECORDING OF THE MAGNETIC VALUES OF SILICON STEEL STRIP 67-07 M10-73809
AUTOMATIC TOP-LOADED VACUUM FURNACE UTILIZED FOR SHEET OR PLATE HEAT TREATMENT 67-07 M10-73840
SOME CONSIDERATIONS ON GAS DRIP CARBURIZING 67-07 M10-74096
AUTOMATICALLY CONTROLLED EQUIPMENT FOR THE PICKLING OF TUBES 67-07 M12-72565
FLEXIBILITY PAYS DIVIDENDS IN FINISHING HEAVY WORKPIECES 67-07 M12-74030
PROGRAMMED DATA SPEEDS CAMSHAFT INSPECTION 67-07 M19-72806
BRIGHTSIDE INSPECTION AND DESEAMING LINES FOR LYSAGHTS 67-07 M19-72932
PRACTICAL EXPERIENCE IN ULTRASONIC TESTING OF HEAVY ROTOR FORGINGS AND POSSIBLE WAYS OF IMPROVING THE DEPENDABILITY OF INTERPRETATION BY AUTOMATION 67-07 M19-73072
AUTOMATED INDUCTION MAGNETOMETER 67-07 M19-73553
HIGHLY MECHANIZED INSPECTION AND DESEAMING LINES IN A STEELWORKS 67-07 M20-73373
AUTOMATIC PELLET CHARGE CONTROL FOR ROASTING PLANT 67-08 M02-74895
A METHOD OF MODULATING THE PARAMETERS OF FIRING OPENHEARTH FURNACES TO DETERMINE THE CARBON OXIDATION RATE 67-08 M04-74328
AUTOMATIC CONTROL OF OPENHEARTH MELTING WHEN OXYGEN IS USED 67-08 M04-74348
BLAST FURNACE AUTOMATION 67-08 M04-74466
NEW STOCKLINE ARMOR DESIGN. VARIABLE-DIAMETER STOCKLINE ARMOR FOR BLAST FURNACES 67-08 M04-74468
ANALOG-CODE AND CODE-ANALOG CONVERTERS AND INFORMATION COMMUTATORS FOR URAL-2 67-08 M04-74897
TODAYS TREND TOWARDS LARGER ELECTRIC SMELTING FURNACES--SOME FEATURES IN DESIGN AND OPERATION 67-08 M04-75316
WORK ON KALDO PROCESS CONTROL AT DOMNARVET 67-08 M04-75516
AUTOMATIC REGULATION AND CONTROL OF BLAST FURNACE HEAT 67-08 M04-75792
AUTOMATIC CHARGING OF BLAST FURNACES 67-08 M04-75793
AN AUTOMATIC SYSTEM FOR CONTROLLING THE SKIP HOIST OF A BLAST FURNACE BY AN ELECTRICAL DRIVE WITH CONTACTLESS LOGIC ELEMENTS 67-08 M04-76265
AUTOMATIC CONTROL AND REGULATION OF THE LANCE POSITION AND OF THE FLOW OF O2 UNDER PRESSURE IN THE OXYGEN STEEL CONVERTER 67-08 M04-76287
CONSTRUCTING A MATHEMATICAL MODEL OF THE SHEET ROLLING PROCESS. PT. 3 67-08 M07-74332
MEDIUM SECTION MILL AT LANCASHIRE STEEL MANUFACTURING COMPANY, LIMITED 67-08 M07-74657
NEW PRESS EXTRUDES BIG, CLOSE TOLERANCE SHAPES FOR OIL, CHEMICAL, POWER INDUSTRIES 67-08 M07-74731
RAPID STOPPING DEVICES FOR HIGH-SPEED REVERSING ROLLING MILLS 67-08 M07-74928
A NEW CONTINUOUS ROLLING MILL FOR SEMIFINISHED PRODUCTS 67-08 M07-75308
INDUSTRIAL COMPUTER CONTROL OF ROLLING MILLS 67-08 M07-75795
HOW ECM CAN HELP SOLVE MACHINING PROBLEMS 67-08 M08-74652
INDUSTRY SHOWS RENEWED INTEREST IN STRETCH-PRESS FORMING 67-08 M08-74734
CARBON POTENTIAL--ITS MEASUREMENT, REGULATION AND SIGNIFICANCE IN CASE-HARDENING PRACTICE 67-08 M10-74746
SUPERFICIAL HARDENING WITH BLOW-PIPES 67-08 M10-74747
FINISHING AND HEAT TREATMENT OF HEAVY PLATES 67-08 M10-74752
AUTOMATIC TEMPERATURE CONTROL OF INDUSTRIAL FURNACES WITH FUEL RETURN 67-08 M10-75656
PROGRAMMING THE CONDITIONS FOR PULSATING ARC WELDS ON PIPES 67-08 M11-74765
ELECTRON BEAM WELDING UNDER VACUUM AND UNDER ATMOSPHERIC PRESSURE 67-08 M11-75038
HIGH-SPEED BARREL ZINC PLATING 67-08 M12-76046
AUTOMATIC PLATING-SOLUTION FILTER CHANGES ITS OWN MEDIA 67-08 M12-76047
ULTRASONICS RECORDS WELD FLAWS 67-08 M19-74366
DIGITAL TEMPERATURE MEASUREMENTS WITH IMMERSION THERMOCOUPLES 67-08 M19-75114
FURNACE CONTROL INSTRUMENTATION IN THE WIRE INDUSTRY 67-08 M19-76075
POLARADIOMETER--A NEW INSTRUMENT FOR TEMPERATURE MEASUREMENT 67-08 M19-76154
ANODE PROBE FOR AUTOMATIC ALUMINUM ELECTROLYZER CONTROL 67-09 M03-76864
AUTOMATIC CONTROL OF AN ALUMINUM ELECTROLYZER 67-09 M03-76867
CONTROL AND AUTOMATION OF THE BLAST FURNACE 67-09 M04-76393
INNOVATIONS IN A BLAST FURNACE AT RUHRORT AND FIRST OPERATIONAL RESULTS 67-09 M04-76501
CLOSED-LOOP COMPUTER CONTROL OF BASIC OXYGEN STEELMAKING 67-09 M04-76671
INTEGRATED AUTOMATIC STOVE CHANGING AND COMBUSTION SYSTEMS 67-09 M04-76673
DESIGN AND CONSTRUCTION OF A PILOT PLANT FOR ELECTROSLAG REMELTING 67-09 M04-77223
MALLEABLE IRON CASTING AUTOMATED 67-09 M06-76515
AUTOMATIC FEEDING OF COLD CHAMBER MACHINES WITH MOLTEN MAGNESIUM ALLOYS 67-09 M06-76733
UTILIZATION OF COMPUTERS IN INVESTMENT CASTING BY APPLICATION OF MATHEMATICAL/ANALYTICAL TECHNIQUES 67-09 M06-77089
PRODUCTION OF MALLEABLE TUBE FITTINGS 67-09 M06-77399
INLAND STEELS COMPUTERIZED STRIP MILL AND COIL CONVEYOR 67-09 M07-76472
CLOSED-DIE FORGING IN SCOTLAND 67-09 M07-77377
AUTOMATION OF STAMPING OF THE ROOF AND FRONT HOOD OF THE RENAULT 4 67-09 M08-77683
AUTOMATION OF THERMAL CONDITIONS OF REGENERATIVE SOAKING PITS 67-09 M10-76556
AUTOMATIC INDUCTION HARDENING OF LARGE GEARS 67-09 M10-76903
AUTOMATIC REAGENT CONTROL IN THE BRALORNE CYANIDATION CIRCUIT 67-09 M10-77026
THE ECONOMICS OF HIGH QUALITY ANODIZING 67-09 M12-77387
AGC.. PUTTING THICKNESS MEASUREMENT TO WORK 67-09 M19-76496
THE AUTOMATIC ULTRASONIC TESTING OF BILLETS FOR INTERNAL DEFECTS 67-09 M19-76509
POSSIBILITIES FOR THE USE OF NONDESTRUCTIVE TESTING FOR THE DETECTION OF DEFECTS IN THE PRODUCTION OF STEEL TUBES 67-09 M19-76696
REMOTE CONTROL TECHNIQUES IN THE AUTOMATION OF THE SINTERING PLANT OF THE ILSEDE --PEINE-- WORKS AS MEANS OF OPTIMIZATION OF THE SINTERING PROCESS 67-10 M02-79686
AUTOMATIC CONTROL SYSTEMS FOR CONTINUOUS CASTING 67-10 M04-78614
CALCULATING THE HEAT EXCHANGE PROCESSES IN A BLAST FURNACE 67-10 M04-79319
AUTOMATIC CONTROL OF OPENHEARTH MELTING 67-10 M04-79332
AUTOMATIC MOULDING SYSTEM EMPLOYED IN A NEW MALLEABLE IRON FOUNDRY 67-10 M06-78389
NEW BUHLER 160-D MACHINES WITH DIRECT INJECTION SYSTEM 67-10 M06-78585
A NEW AUTOMATIC HOT CHAMBER PRESSURE DIE CASTING MACHINE 67-10 M06-78784
AUTOMATIC COLD CHAMBER PRESSURE DIE CASTING MACHINE 67-10 M06-78786
PROCESS ANALYSIS OF THE OPERATION OF A TWO-TON HOT BLAST CUPOLA 67-10 M06-79559
THE AUTOMATION OF DIE FORGING 67-10 M07-78640
THE IMPORTANCE OF INDUSTRIAL ELECTRIC HEATING

TECHNOLOGY IN THE AUTOMATION OF THE FORGING OF MASS-PRODUCED AUTOMOTIVE PARTS 67-10 M07-78641
EXPERIENCE GAINED WITH A FULLY PROGRAMMED BLOOMING MILL 67-10 M07-78699
EXPERIENCE GAINED WITH VARIOUS MEASURING AND TRANSMITTING METHODS IN STEEL MILLS 67-10 M07-79390
RADIOISOTOPIC DETERMINATION OF THE POSITION OF PIPES IN HOT BILLETS 67-10 M07-79869
DIGITAL COMPUTER FOR A TELEVISION GAGE FOR MEASURING THE LENGTH OF HOT BLOOMS 67-10 M07-80054
ELECTRONICALLY CONTROLLED FORGING PRESS 67-10 M07-80091
DRAWING OPERATIONS ON SHEET MAGNESIUM 67-10 M08-78503
AUTOMATIC ROLL GRINDERS FOR FLAT PRODUCTS MILLS 67-10 M08-78620
PROGRAMMED ELECTROSPARK MACHINING 67-10 M08-79889
HEAT TREATMENT IN THE TOOL INDUSTRY 67-10 M10-79215
AUTOMATION FOR BRAZING AND SOLDERING 67-10 M11-79192
IMPROVED PERFORMANCE WITH THE TRIBOLUSTER PROCESS FOR DEBURRING AND SURFACING 67-10 M12-79189
COMPUTER LINK-UP WITH PICKUPS, SECONDARIES AND REGULATORS 67-11 M04-81018
AUTOMATIC AVERAGING AND RECORDING OF LOW-FREQUENCY ALTERNATING PARAMETERS IN A BLAST FURNACE HEAT 67-11 M04-81019
ON-BLOW CARBON METER FOR BESSEMER HEATS 67-11 M04-81076
FUNDAMENTALS OF AUTOMATIC CONTROL AND ADJUSTMENT OF THE BLAST FURNACE PROCESS 67-11 M04-81215
DISTURBANCE OF AUTOMATIC BLAST FURNACE CONTROL PULSES BY INTERFERENCE 67-11 M04-81216
BLAST FURNACE PARAMETERS FOR AUTOMATIC CONTROL AND THERMAL ADJUSTMENT 67-11 M04-81235
ON THE ACCURACY OF CONTINUOUSLY CALCULATED CARBON IN THE OPENHEARTH BATH 67-11 M04-81301
OXYGEN CONVERTER SUBMITS TO DIGITAL CONTROL 67-11 M04-81309
PROGRAMMED ELECTROSLAG REMELTING 67-11 M04-81316
AUTOMATIC CONTROL AND ADJUSTMENT IN CONTINUOUS CASTING PLANT 67-11 M04-81322
HOW LOCAL ADDITIONS OF FUEL OIL AND WATER VAPOR AFFECT COKE COMBUSTION IN THE BLAST FURNACE TUYERE BELT 67-11 M04-81460
COMPUTERIZED CONTROL OF THE BLAST FURNACE --PILOT SYSTEM-- 67-11 M04-81461
USE OF COMPUTERS TO CONTROL OXYGEN CONVERTERS 67-11 M04-81612
POSITION MONITOR FOR CONTINUOUS CASTING MOLDS 67-11 M04-81623
THE OPENHEARTH AS A SUBJECT FOR CONTROL 67-11 M04-81629
AUTOMATION IN PICKLING 67-11 M12-80297
AUTOMATIC CONTROL OF THE STEELMAKING POOL 67-12 M04-81727
CONTROL OF INTEGRATED FORGING SHOPS 67-12 M07-81926
A UNIVERSAL MACHINE FOR TREATING SURFACES BY SHOT-PEENING 67-12 M12-82082
CONTINUOUS SMALL BAR MILL AT THE WORKS OF THE METALLURGY SOCIETY OF NORMANDY 67-12 M20-82895

AUTOMATIC CONTROL, ELECTROLYSIS
AUTOMATIC SYSTEM FOR CONTROL OF COPPER WHEN SEPARATING COPPER AND CADMIUM IMPURITIES FROM ZINC ELECTROLYTES 67-08 M03-75202

AUTOMATIC CONTROL, METAL WORKING
COMPUTER FOR AUTOMATIC CONTROL OF SCREW PERFORMANCE HOUSING IN MEDIUM SECTION 2350 MILLS 67-10 M07-79919

AUTOMATIC CONTROL, ROLLING
SAR DIGITAL PROGRAM COMPUTER OF STRIP THICKNESS IN CONTINUOUS SHEET MILLS 67-10 M07-79917
AUTOMATIC GAGING OF STRIP IN A CONTINUOUS HOT 2500 MILL 67-10 M07-79918

AUTOMATIC CONTROL, WELDING
WELDING SKATE WITH COMPUTERIZED TORCH ANGLE AND WELDING SPEED CONTROL 67-01 M11-58773
AUTOMATIC CONTROL OF PULSED-ARC WELDING WITH CONSUMABLE ELECTRODE 67-05 M11-69401

AUTOMATIC WELDING
AUTOMATIC WELDING OF KH5M-U STEEL PIPES 67-01 M11-57531
CHARACTERISTICS OF CO2 AUTOMATIC WELDING WITH SPLIT ELECTRODE 67-01 M11-57532
WELDING HEAT-RESISTANT CHROMIUM STEEL EI756 67-01 M11-58212
WELDING THE RAILS OF A SEAMLESS TRACK IN RAILROADS WHICH ARE UNDER CONSTRUCTION 67-01 M11-58215
FUSION WELDING OF ALUMINUM WITH COPPER 67-01 M11-58277
A FLUX CUSHION FOR AUTOMATIC WELDING OF CONNECTING PIPES FOR VESSELS 67-01 M11-58279
THE NARROW-GAP MIG WELDING PROCESS FOR THICK STEEL PLATES 67-01 M11-58699
WELDING SKATE WITH COMPUTERIZED TORCH ANGLE AND WELDING SPEED CONTROL 67-01 M11-58773
DETERMINING THE STATIC CHARACTERISTICS OF SELF-REGULATING SYSTEMS OF WELDING WITH SHORT ARC CLOSINGS 67-01 M12-57528
THE SIGNIFICANCE OF INERT-GAS WELDING IN THE PRODUCTION OF TUBE JOINTS 67-02 M11-58943
WELDING VACUUM-TIGHT ANGLE JOINTS IN AMG6 ALLOY 67-02 M11-59523
EXAMPLES OF AUTOMATION IN FUSION ARC WELDING 67-02 M11-59755
WELDABILITY AND MAJOR WELDING PROCESSES FOR STAINLESS STEELS 67-02 M11-59803
AUTOMATIC AND SEMIAUTOMATIC CO2 WELDING 67-02 M11-59846
PRESENT AND FUTURE IRON AND STEEL INDUSTRY OF JAPAN 67-02 M11-59961
DEVELOPMENT OF WELDING PRACTICES IN SHIPBUILDING 67-02 M11-60042
RECENT DEVELOPMENTS IN AUTOMATIC ARC WELDING IN NEUTRAL ATMOSPHERES 67-02 M11-60109
A DEVICE FOR EXTERNAL AUTOMATIC SUBMERGED ARC WELDING OF LONGITUDINAL AND CIRCUMFERENTIAL SEAMS 67-02 M11-60134
THE AUTOMATION OF RESISTANCE WELDING 67-02 M11-60911
WELDING METHOD 67-02 M11-60952
AUTOMATING JOB--LOT WELDING 67-02 M11-61128
AUTOMATIC WELDING OF TUBES MADE OF KH5M-U STEEL 67-02 M11-61150
CHARACTERISTICS OF AUTOMATIC TWIN ARC CO2 WELDING 67-02 M11-61151
STRENGTH AND PLASTICITY OF JOINTS IN AUTOMATIC ARC WELDING OF VT14 AND VT6S TITANIUM ALLOYS 67-02 M11-61267
HIGH PRESSURE FEEDWATER HEATERS WELDED QUICKLY AND MORE EFFICIENTLY WITH SEMIAUTOMATIC PROCESS 67-02 M11-61579
FIXTURING INGENUITY, KEY TO FULLY AUTOMATIC WELDING 67-02 M11-61646
AUTOMATIC METAL ARC HARD FACING IN AUSTRALIA 67-02 M12-60910
DETERMINATION OF THE STATIC CHARACTERISTICS OF SELF-REGULATION SYSTEMS FOR ARC WELDING PROCESSES 67-02 M12-61147
PROBLEMS IN WELDING HIGH-STRENGTH STEELS 67-02 M17-59966
AUTOMATIC WELDING OF THICK SECTIONS 67-03 M11-65063
AUTOMATIC MIG WELDING OF ALUMINIUM ALLOYS 67-04 M11-66469
VACUUM-TIGHT CORNER WELDS IN AMG6 ALLOY 67-04 M11-66472
PRE-STRESSING IN MULTILAYER DRUMS DURING ARC WELDING 67-04 M11-66473
A NEW METHOD OF MECHANIZED WELDING OF REINFORCED FITTINGS 67-04 M11-66575
THE AUTOMATIC WELDING OF ELECTRIC MOTOR SHAFTS MADE OF DISSIMILAR STEELS 67-04 M11-67163
FUSION WELDING ALUMINIUM TO COPPER 67-04 M11-67358
FLUX CUSHION FOR THE AUTOMATIC WELDING OF BRANCH PIPES TO VESSELS 67-04 M11-67360
AN APPARATUS FOR THE AUTOMATIC SUBMERGED ARC WELDING FROM OUTSIDE 67-04 M11-67674
RECLAIMING STEEL CASTING MOLDS BY BUILDUP 67-04 M12-66574
THE STRENGTH AND DUCTILITY OF AUTOMATIC ARGON ARC WELDED JOINTS IN TITANIUM ALLOYS VT14 AND VT6S 67-05 M11-68267
HIGH SPEED WELDER FOR TORQUE CONVERTER TRANSMISSIONS 67-05 M12-68666
THE WELDING OF HIGH ALLOY MATERIALS RELEVANT TO PRESSURE STEAM-REFORMING OF NAPHTHA 67-06 M11-70537

AUTOMATIC WELDING

CORED WELDING WIRE FOR SEMI-AUTOMATIC WELDING OF KH18N10T STAINLESS STEEL 67-06 M11-71650
WELDING OF STAMPED HOOD PLATES OF THIN SHEET KH18N10T STEEL FOR RECTIFICATION COLUMNS 67-06 M11-71656
MECHANIZED VERTICAL WELDING UTILIZING THE GAS METAL-ARC PROCESS 67-06 M11-71679
USE OF EP-389 WIRE FOR AUTOMATIC WELDING OF CLAD STEELS USED FOR CHEMICAL AND OIL REFINING APPARATUS 67-06 M11-71851
COMPARISON OF WELDING MACHINE DESIGNS AND A CRITICAL REVIEW OF THEIR APPLICATIONS 67-06 M11-72064
AUTOMATIC WELDING OF ST. 3 PLUS OKH23N28M3D3T BILAYER STEEL 67-07 M11-72873
A NEW MECHANISED METHOD OF WELDING REINFORCEMENT 67-07 M11-73432
THE FABRICATION OF REACTOR PRESSURE VESSELS AND REACTOR COMPONENTS WITH SPECIAL REGARD TO WELDING 67-07 M11-73466
NEW HORIZONS ON THE WELDING SCENE 67-07 M11-73882
SEMI-AUTOMATIC CO2 WELDING OF PIPELINES 67-07 M11-73888
WELDING OF THICK SECTIONS OF HASTELLOY X FOR THE PHOEBUS-2 NOZZLE 67-07 M11-74278
THE PULSED INERT GAS METAL-ACR WELDING 1 IN. THICK TITANIUM 721 ALLOY 67-07 M11-74281
STEEL LADLES RECONDITIONED BY BUILDING UP 67-07 M12-73431
WELDING SLIP-IN AND EDGE JOINTS 67-08 M11-74769
SEMI-AUTOMATIC CO2 WELDING WITH FILLET SPOT WELDS IN SHEET METAL STRUCTURES 67-08 M11-74772
DOUBLE ARC WELDING A SEMITRAILER BEAM 67-08 M11-75410
B.I.S.R.A. DEVELOPS FINE WIRE WELDING MACHINE 67-09 M11-76904
CHARACTERISTIC OF THE POWER SOURCE IN AUTOMATIC WELDING OF ALUMINIUM THROUGH FLUX 67-09 M11-77235
AUTOMATIC TIG WELDING OF ALUMINIUM ALLOYS IN THE VERTICAL POSITION 67-09 M11-77240
AUTOMATIC ARGON ARC WELDING OF M40 ALLOY 67-09 M11-77241
AUTOMATIC SUBMERGED ARC WELDING OF ARMCO IRON 67-09 M11-77616
THE KSLA HOT CRACK TESTING APPARATUS 67-09 M11-78151
AUTOMATIC BUILDUP OF BRASS 67-10 M11-78411
AUTOMATIC CONTROL OF PULSED ARC WELDING WITH A CONSUMABLE ELECTRODE 67-10 M11-78505
SIMPLE DEVICES FOR AUTOMATIC SHORT WELDS 67-10 M11-79173
WELDING PRESSED BUBBLE PLATES FOR FRACTIONATING EQUIPMENT MADE OF KH18N10T STEEL SHEET 67-10 M11-79648
SEMI-AUTOMATIC WELDING OF REINFORCING STEEL WITH POWDER WIRE 67-11 M11-80546
THE AUTOMATIC WELDING OF CLAD STEELS USING EP-389 ELECTRODE WIRE 67-11 M11-80883
EFFECT OF WELDING WITH CONSUMABLE ELECTRODE IN INERT GASES ON DIMENSION OF WELDS 67-12 M11-81910
AUTOMATIC WELDING OF STRUCTURES IN KH18N10T STEEL AND EI602 ALLOY 67-12 M11-81917
THE TWIN ARC WELDING OF OPEN TOP WAGON SOLE BARS 67-12 M11-82031
A MACHINE FOR PULSATION ARGON ARC WELDING OF STATIONARY THICK-WALLED TUBES 67-12 M11-83190
AUTOMATIC SUBMERGED ARC WELDING OF T-CONNECTIONS OF FOUNDATION ELEMENTS 67-12 M11-83191
AUTOMATIC WELDING ON VERTICAL SURFACES IN THE OPEN AIR 67-12 M11-83279

AUTOMATION
SEE ALSO AUTOMATIC CONTROL
DIE CASTING AND AUTOMATION 67-01 M06-57239
THE NEW CSR MILL AT REPUBLIC STEELS YOUNGSTOWN PLANT 67-01 M07-58502
PRESSURE VESSELS--AUTOMATE OR DIE 67-01 M20-58650
INSTRUMENT ANALYSIS AT THE TOKAI IRON AND STEEL WORKS 67-02 M04-60758
MECHANISMS OF GAS FORMATION IN THE OXYGEN CONVERTER PROCESS AND FEASIBILITY OF USING THEM FOR CONTROLLING THE MELT. PT. 1 67-02 M04-62260
AUTOMATED SYSTEM FOR LOW-PRESSURE DIE-CASTING 67-02 M06-61848
ALUMINIUM STRIP ROLLING AT DOLGARROG 67-02 M07-61123
INNOVATIONS IN N/C MACHINING PRODUCE BETTER PARTS AT LESS COST 67-03 M08-65363
TWO EXAMPLES OF COMPUTER USE IN THE IRON MAKING INDUSTRY 67-04 M04-66675
AUTOMATION DETAILS OF NO. 6 BLAST FURNACE AT THE GOTTWALD PLANT IN WITKOWICE 67-04 M04-67876
AUTOMATED HOT FORGING INSTALLATION 67-05 M07-68632
BRITISH MILL ROLLS TOWARD AUTOMATION 67-06 M20-70678
CONTINUOUS AUTOMATED METHOD FOR PRECIPITATION OF COBALT CONCENTRATE 67-07 M02-73411
SINTERING OF METAL POWDER STRUCTURAL MATERIALS BY INDUCTION HEATING 67-07 M09-72503
AUTOMATIC BRAKING AND STOPPING OF REVERSING COLD ROLLING MILLS 67-10 M07-79379
SINTERING OF CONSTRUCTIONAL POWDER MATERIALS BY HIGH-FREQUENCY CURRENTS 67-11 M09-80889
ORE PREPARATION FOR MODERN BLAST FURNACE PLANT 67-12 M02-83075
A GAGE FOR AUTOMATIC CONTROL OF EXCESS AIR COEFFICIENT IN OPENHEARTH FURNACES 67-12 M04-81862
CONTINUOUS IRON PROCESS NEARS PILOT PLANT 67-12 M04-82991
AUTOMATION OF BLAST FURNACE AND PURE OXYGEN CONVERTER OPERATION--FRENCH ACHIEVEMENTS 67-12 M04-83203
AUTOMATIC THERMAL CONTROL FOR BLAST FURNACE HEATS 67-12 M04-83464
A CLOSED-LOOP CONTROL SYSTEM FOR THE BASIC OXYGEN STEEL PROCESS 67-12 M04-83595
DIECASTING AUTOMATION FOR A CUSTOM SHOP 67-12 M06-81957
MECHANIZATION AND AUTOMATION OF CASTING INTO ALUMINUM ANODIZED CHILL MOLDS 67-12 M06-82614
LOOP CONTROL AUTOMATION ON TWO-THREAD LOOP TABLES OF A CONTINUOUS ROD MILL 67-12 M07-81869
SYSTEMS STUDY FOR A CONTROL COMPUTER AT THE NEW CASTLE 18 IN. CONTINUOUS MILL 67-12 M07-83173
MECHANIZED DRESSING OF HEAVY-GAGE SHEETS 67-12 M08-81872
REHEATING FURNACES FOR CONTINUOUS STEELMAKING 67-12 M10-82929
A NONCONTACTING DIGITAL LENGTH/WIDTH GAGE FOR HOT SLABS 67-12 M19-83593

AUTOMATION, STEEL MAKING
ECONOMIES OFFERED BY ISOTOPE FURNACE CHARGE-LEVEL CONTROL 67-12 M19-82903

AUTOMOBILE ENGINES
SEE PASSENGER CAR ENGINES

AUTOMOBILES
PRODUCTION OF CERMET MACHINE PARTS AT THE MOSCOW POWDER METALLURGY PLANT 67-02 M09-61796
NEW TECHNIQUES IN METAL FORMING 67-03 M07-65166
NEW DATA ON FATIGUE LIFE OF MALLEABLE IRON PARTS 67-03 M17-65024
PRESSURE CASTING STEP BY STEP 67-05 M04-68687
MECHANIZED FLAW DETECTION--CHECKS VITAL CAR COMPONENTS 67-06 M19-71203
HIGH-PRESSURE DIE CAST REAR SUSPENSION ARMS 67-07 M06-73089
TENIFER PROCESS OF SALT BATH NITRIDING 67-07 M10-72906
X-RAY AND FLUORESCENT PENETRANT INSPECTION FOR DIE-CAST CAR COMPONENT 67-07 M19-72811
AUTOMOTIVE APPLICATIONS OUTSIDE THE ENGINE 67-08 M20-74828
HIGH-STRENGTH STEEL PLATE APPLIED TO VEHICULAR STRUCTURES --HIGHER STRENGTH STEEL PLATE WITH EXCELLENT FORMABILITY-- 67-08 M20-75809
NEW SPANISH STEELS AND COPPER ALLOYS IN FORGINGS FOR THE AUTOMOTIVE INDUSTRY 67-09 M01-77900
STEEL COMPOSITION REQUIREMENTS OF THE AUTOMOBILE INDUSTRY 67-09 M10-76417
REINFORCING RIBS IN COLD STAMPED PARTS 67-09 M20-76411
RESULTS OBTAINED WITH STELLITE FOR BLANKING, TRIMMING, AND SHEARING TOOLS 67-11 M08-81692
HOT ROLLING OF STEEL PRODUCTS FOR THE AUTOMOBILE INDUSTRY, WITH HIGH QUALITY AND DIMENSIONAL TOLERANCE 67-12 M07-82387
THE WELDING OF PLASTIC-COATED STEEL SHEET 67-12 M11-83072

AUTOMOBILES, BONDING
NEW STICK FOR METALS 67-02 M11-59016
AUTOMOBILES, COATING
ELECTROPAINTING AT SMITHS INDUSTRIES WITNEY PLANT 67-02 M12-60902
ELECTROPLATING PLANT RECORD SIZE 67-02 M12-60927
LANDROVER CHASSIS DIPPING PLANT 67-02 M12-60929
COMMERCIAL PROSPECTS OF PLATING ON A.B.S. PLASTICS 67-03 M12-65154
DECORATIVE PLATING IN THE GERMAN MOTORCAR INDUSTRY. PT. 2 67-04 M12-67751
AUTOMOBILES, CORROSION
HOW AUTO ENGINEERS ARE ATTACKING THE CORROSION PROBLEM 67-03 M18-65209
PROGRESS IN THE BATTLE WITH CORROSION OF AUTOMOBILES 67-03 M18-65975
IMPROVEMENT IN CORROSION RESISTANCE OF DECORATIVE NICKEL-CHROMIUM DEPOSITS 67-04 M18-66721
PROTECTION OF VEHICLES AGAINST CORROSION 67-09 M18-78023
PROGRESS IN THE BATTLE WITH CORROSION OF AUTOMOBILES 67-10 M18-78501
EFFECT OF STRAIN HARDENING ON THE PROPERTIES OF 08 RIMMED STEEL 67-11 M18-80592
AUTOMOBILES, EXTRUSIONS
MANUFACTURE OF BRIGHT ANODIZED ALUMINUM PARTS FOR THE AUTOMOBILE INDUSTRY 67-04 M08-68018
AUTOMOBILES, FORGINGS
POSSIBILITY OF USING CASE-HARDENING STEELS CONTAINING TUNGSTEN 67-04 M17-67701
HSS INSERTS TO THE RESCUE 67-05 M08-68308
AUTOMOBILES, GEARS
STRAIGHTENING SYSTEM ALSO INSPECTS AUTOMOTIVE PINION SHAFTS 67-06 M08-70681
AUTOMOBILES, HARD SURFACING
VIBROARC DEPOSIT WELDING OF CAST IRON PARTS IN AIR STREAM 67-06 M11-72312
AUTOMOBILES, MATERIALS
MALLEABLE IRON--A REVIEW OF SIGNIFICANT ENGINEERING PROPERTIES 67-01 M01-58681
SURFACE ROUGHNESS OF LOW-CARBON LIGHT GAGE COLD ROLLED STEEL AND ITS EFFECT ON THE STAMPING-DRAWING PROCESS 67-05 M08-69696
USE OF PRE-FINISHED DECARB-FREE FLATS 67-06 M07-70594
SINTERING OF METAL POWDER STRUCTURAL MATERIALS BY INDUCTION HEATING 67-07 M09-72503
SINTERING OF CONSTRUCTIONAL POWDER MATERIALS BY HIGH-FREQUENCY CURRENTS 67-11 M09-80889
AUTOMOBILES, POWDER METALLURGY
POWDER METALLURGY PARTS IN AUTOMOBILE MANUFACTURING 67-08 M09-74318
AUTOMOBILES, STRUCTURAL MATERIALS
WEAR RESISTANCE OF SINTERED INSERTS FOR BALL PINS OF AN AUTOMOBILE STEERING SYSTEM 67-08 M17-75431
AUTOMOBILES, WELDING
AN AGGREGATE MACHINE FOR SPOT WELDING HATCH DOORS OF TRUCK SEMITRAILERS 67-01 M11-58280
AUTOMATIC AND SEMIAUTOMATIC CO2 WELDING 67-02 M11-59846
FLASH WELDING AT THE GORKY AUTOMOBILE WORKS 67-02 M11-60007
CO2 WELDING OF A TRACTOR FRAME 67-04 M11-67814
CO2 WELDING OF A TRACTOR CHASSIS 67-06 M11-70314
MECHANICAL PROPERTIES OF COMBINATION WELDED JOINTS IN THE REPAIR OF AUTOMOBILE COMPONENTS 67-09 M17-77613
THE VIBRO-ARC DEPOSITION OF METAL ON CAST IRON COMPONENTS IN AN AIR CURRENT 67-11 M11-81584
AUTOMOTIVE ENGINEERING
CORROSION-RESISTANT COPPER ALLOY MAY DOOM STEEL TUBING FOR HYDRAULIC BRAKE LINES 67-02 M20-61641
DIAMOND TOOLS IMPROVE HONING 67-06 M08-70844
COLD EXTRUSIONS HOT NEW LOOK 67-07 M07-73309
WELDING IN THE BRITISH MOTOR INDUSTRY 67-10 M11-78794
LIGHT METAL PRESSURE DIE CASTINGS IN EUROPEAN MOTOR VEHICLES 67-10 M20-78783
AUTOMOTIVE ENGINES
SEE ALSO MARINE ENGINES
PASSENGER CAR ENGINES
METAL CASTING INNOVATED BY CHRYSLERS NEW FOUNDRY 67-07 M06-73838
OUTBOARD MOTOR DIE CASTINGS DESIGNED AND PURCHASED BY CHRYSLER 67-09 M06-76402
IRON AND STEEL IN THE MODERN VEHICLE IC ENGINE 67-09 M20-77378
AUTOMOTIVE ENGINES, MATERIALS
THE USE OF LIGHT METAL ALLOYS IN ENGINES OF VEHICLES 67-02 M20-60216
AUTORADIOGRAPHY
SELF-DIFFUSION OF NIOBIUM IN SOME OF ITS ALLOYS CONTAINING MOLYBDENUM 67-01 M14-57314
THE SOLID STATE--REHBINDER EFFECT IN LUBRICATED METAL CURRING 67-02 M08-60882
AUTORADIOGRAPHS IN PYROLYTIC GRAPHITE 67-02 M13-61084
ADSORPTION OF GLOBULIZER ELEMENTS ON GRAPHITE CRYSTALS IN CAST IRONS 67-02 M14-61680
FORMATION OF EXTRA-AXIAL HETEROGENEITY IN INGOTS 67-04 M13-67606
CARBON DIFFUSION IN CHROMIUM 67-04 M14-67653
DETERMINING THE SOLUBILITY OF CARBON IN FERRITE BY THE RADIOMETRIC METHOD 67-04 M19-67090
DIFFUSION OF PHOSPHORUS IN IRON 67-05 M14-68376
TRACER EVALUATION OF HYDROGEN IN STEAM-GROWN SIO2 FILMS 67-05 M14-68629
THE DISTRIBUTION OF SULFUR IN TRANSFORMER STEEL INVESTIGATED BY AUTORADIOGRAPHY 67-06 M13-70341
AUTOMATIC PULP DENSITY MONITORING WITH THE RRP-605 ISOTOPE RELAY 67-06 M19-71342
AN AUTORADIOGRAPHIC STUDY OF THE DISTRIBUTION OF IRON IN CAST ALUMINIUM-IRON SOLID SOLUTION 67-07 M19-72817
BORON DETERMINATION IN BORON STEEL ALLOYS BY AUTORADIOGRAPHIC METHODS 67-07 M19-73729
DISTRIBUTION OF SULFUR IN TRANSFORMER STEEL INVESTIGATED BY AUTORADIOGRAPHY 67-09 M13-76801
USE OF AUTORADIOGRAPHY FOR ANALYSIS OF INTERACTION OF CARBON AND PHOSPHORUS IN STEEL 67-09 M13-77402
DETERMINATION OF THE SOLUBILITY OF CARBON IN FERRITE BY A RADIOMETRIC METHOD 67-09 M14-78070
DETERMINATION OF THE DISTRIBUTION OF ALLOYING COMPONENTS BY MACROAUTORADIOGRAPHY 67-10 M14-78655
CRYSTALLIZATION FRONT IN ELECTRIC-ARC ZONE MELTING 67-10 M14-79631
DISTRIBUTION OF SULFUR IN WHITE GRAPHITIZED AND DECARBURIZED IRONS INVESTIGATED BY THE AUTORADIOGRAPHY METHOD 67-12 M13-82487
TESTING GALVANIC COATINGS BY RADIOCHEMICAL METHOD 67-12 M19-82935
AXIAL FLOW PUMPS, MECHANICAL PROPERTIES
FAILURE OF THE SHAFT OF A VERTICAL PUMP 67-08 M17-75536
AXIAL STRESS
SUPERCONDUCTING TRANSITION TEMPERATURE AND RESISTIVITY OF TIN WHISKERS AS A FUNCTION OF UNIAXIAL TENSION 67-03 M16-65748
THE EFFECT OF TRIAXIAL STRESS SYSTEMS ON BRITTLE FRACTURE AND ON THE BRITTLE-DUCTILE TRANSITION 67-06 M17-70631
MEASUREMENT OF BIAXIAL CREEP STRAINS USING THE MOIRE METHOD 67-06 M17-70867
UNIAXIAL STRESS EFFECT OF GE PN JUNCTIONS DOPED WITH COPPER 67-07 M16-73321
EFFECTS OF HIGH PRESSURE, UNIAXIAL STRESS AND TEMPERATURE ON THE ELECTRICAL RESISTIVITY OF N-GAAS 67-07 M16-73945
CREEP OF THICK-WALLED CYLINDERS UNDER REPEATED VARYING INTERNAL PRESSURE 67-07 M17-72980
YIELD AND SECOND-ORDER EFFECTS INDUCED BY CYCLIC STRAIN IN COPPER UNDER TENSION 67-07 M17-73918
THE INFLUENCE OF THE INTERMEDIATE PRINCIPAL STRESS ON FATIGUE UNDER TRIAXIAL STRESSES 67-08 M17-74682
MULTIAXIAL STATE OF STRESS AND FRACTURE 67-09 M17-77851
CUMULATIVE DAMAGE UNDER BIAXIAL FATIGUE STRESS 67-10 M17-79174
A CRITERION FOR FATIGUE FRACTURE UNDER MULTIAXIAL ALTERNATING STRESS STATE 67-10 M17-79599
ON THE THEORY OF PLASTIC WAVE PROPAGATION IN A BAR 67-10 M17-80005
INFLUENCE OF A UNIAXIAL COMPRESSIVE STRESS ON THE KINETICS OF THE BETA-ALPHA TRANSFORMATION IN U-CR ALLOYS AND ON GRAIN FINENESS

AXIAL STRESS
67-11 M14-81561
DEFORMABILITY OF DEEP-DRAWING SHEETS UNDER BIAXIAL TENSILE STRESS 67-11 M17-80398
PLASTIC YIELDING AND STRAIN DISTRIBUTION IN FILAMENT-REINFORCED METALS 67-11 M17-80679
MECHANICAL PROPERTIES AND CLEAVAGE FRACTURE OF IRON SINGLE CRYSTALS AT 77 K 67-12 M17-81746
INTERNAL STRAIN IN PLASTICALLY DEFORMED TENSILE TESTPIECES OF NICKEL OF DIFFERENT PURITIES 67-12 M17-82058
A PLASTIC STRESS ANALYSIS OF CYLINDRICAL WAFERS UNDER ELASTICALLY DEFORMABLE COMPRESSION PLATES 67-12 M17-83250

AXIAL STRESS
TORSION CREEP OF CIRCULAR AND NONCIRCULAR TUBES
TORSION CREEP OF CIRCULAR AND NONCIRCULAR TUBES 67-12 M17-83568

AXIAL STRESS, HEATING EFFECTS
EFFECT OF HEAT TREATMENT AND PLATING ON THE BIAXIAL TENSILE STRENGTH OF TITANIUM ALLOYS VT14, VT15 AND VT16 67-04 M17-67535

AXLES, HEAT TREATMENT
SELECTION OF A METHOD OF HEATING CYLINDRICAL COMPONENTS WITH CHAMFERS PRIOR TO CASE HARDENING 67-10 M10-78350

AXLES, MATERIALS TESTING
ULTRASONIC INSPECTION OF RAILWAY AXLES 67-01 M19-58520

AXLES, MECHANICAL PROPERTIES
INDUCTION HARDENING OF AUTOMOBILE HALF AXLES 67-02 M10-60849
SURFACE QUENCHING IN THE CASE OF BULK INDUCTION HEATING OF ZIL-130 AXLES 67-08 M10-76107

AXLES, METAL WORKING
ROTARY FORGING RAILWAY AXLES SAVES TIME AND MATERIAL 67-01 M07-58784
STAMPING OF BILLETS HEATED IN MOLTEN GLASS 67-02 M07-60678
STUDY OF THE PROPERTIES OF COMPLEX BILLETS ROLLED ON THREE-HIGH MILLS FOR CROSS-HELICAL ROLLING OF ROUND SHAPES 67-05 M07-69690

AXLES, NONDESTRUCTIVE TESTING
NONDESTRUCTIVE TESTING OF RAILROAD AXLES BY ULTRASOUND 67-11 M19-80389

BABBIT
SEE BEARING ALLOYS

BACK EXTRUSION
SEE BACKWARD EXTRUSION

BACK TENSION PROCESS
SEE TENSION ROLLING

BACKSCATTERING
THICKNESS DETERMINATION OF THIN FILMS BY ELECTRON PROBE MICROANALYSIS 67-04 M19-67263
STEREOSCOPIC OBSERVATION IN SCANNING MICROSCOPY USING MULTIPLE DETECTORS 67-04 M19-67264
MEASURING ELECTRODEPOSIT THICKNESS. A BETA BACK-SCATTER METHOD FOR THE PLATINUM METALS 67-05 M19-69287
PHOTORESPONSE STUDIES OF VAPOR-DEPOSITED MO-SI SYSTEMS 67-07 M15-72631
DENSITY DETERMINATION OF SPUTTERED TANTALUM FILMS BY A BETA-BACKSCATTER TECHNIQUE 67-08 M19-74715
ANALYSIS OF THE HEAVY ELEMENT IN ALLOYS AND ORES BY BETA-RAY BACKSCATTERING 67-09 M19-77570
RAPID ANALYSIS IN METALLURGY BY MEANS OF THE BETA-BACKSCATTERING METHOD 67-12 M19-82281

BACKUP ROLLS, SURFACE PROPERTIES
SURFACE FRACTURES ON COLD-WORKING ROLLS, THEIR FORMATION AND AN INTERPRETATION OF THEIR CAUSES 67-04 M17-67411

BACKUP ROLLS, WELDING
RECLAMATION OF STEEL MILL ROLLS 67-06 M11-71826

BACKWARD EXTRUSION
TRANSVERSE EXTRUSION. PT. 1 67-01 M07-58716
COLD EXTRUSION 67-01 M08-58726
THE MAXIMUM PRESSURE IN THE REVERSE EXTRUSION OF STEEL 67-03 M07-65178
SELECTION OF STEELS AND HEAT TREATMENTS FOR EASE OF COLD EXTRUSION. PT. 1 67-03 M07-65761
PROGRESS IN IMPACT EXTRUSION 67-04 M08-66408
HOT BACKWARD EXTRUSION OF SLEEVES WITH A THIN BOTTOM BY CYLINDRICAL AND TAPERED PUNCHES 67-07 M08-73950
RESEARCH ON A BACKWARDS CUP-EXTRUSION PRESS 67-08 M07-76300
GRAPHICAL DETERMINATION OF PRESS FORCE AND DEFORMATION WORK IN UPSETTING AND COLD EXTRUSION 67-09 M08-77945
STRAIN DISTRIBUTION IN RODS MADE BY INVERSE HYDROSTATIC EXTRUSION 67-11 M07-81657
GRAPHICAL DETERMINATION OF EXTRUSION PRESSURE AND OF WORK OF DEFORMATION DURING UPSETTING AND COLD EXTRUSION 67-12 M07-82445

BACKWARD EXTRUSION, PRESSURE EFFECTS
PREDICTION OF EXTRUSION PRESSURES IN THE COLD FORGING OF STEEL 67-12 M07-82767

BACKWARD WAVE TUBES
SEE TRAVELING WAVE TUBES

BACTERIA
BACTERIAL CORROSION OF STEEL WATERPIPES 67-11 M18-81279

BACTERIA, CORROSION ENVIRONMENTS
ACCELERATED CORROSION OF SHIPS BOTTOM PLATE 67-03 M18-65994
CORROSION OF MILD STEEL BY ACTIVELY GROWING CULTURES OF SULFATE-REDUCING BACTERIA. THE INFLUENCE OF FERROUS IRON 67-03 M18-65995

BACTERIA, LEACHING
BACTERIAL METHOD OF INTENSIFYING UNDERGROUND LEACHING OF SULFIDE ORES 67-01 M03-58067
FACTORS INFLUENCING THE APPLICATION OF BACTERIAL LEACHING TO A CANADIAN URANIUM ORE 67-02 M02-61585

BAINITE
THE MUTUAL EFFECTS OF TRANSFORMATION REACTIONS IN HEAT TREATMENTS CARRIED OUT IN A FLUCTUATING TEMPERATURE FIELD 67-02 M14-59915
A SALT BATH SYSTEM FOR MAKING SPRING BARS 67-03 M10-65980
METALLOGRAPHIC ATLAS OF IRON, STEELS AND CAST IRONS. V. 2. STRUCTURE OF STEELS 67-04 M13-67734
EFFECT OF THE CARBON AND MANGANESE CONCENTRATIONS ON THE PROPERTIES OF LOW-ALLOYED STEEL CONTAINING SMALL AMOUNTS OF NIOBIUM 67-04 M17-67958
STRUCTURAL INHERITANCE IN CASE HARDENED ALLOYED STEELS 67-05 M13-68374
THE BAINITIC REACTION IN URANIUM-CHROMIUM ALLOYS 67-05 M14-69563
EFFECT OF MARTENSITE ON THE KINETICS OF BAINITE FORMATION IN LOW ALLOY STEELS 67-06 M14-72151
THE BAINITE TRANSFORMATION OF BETA-BRASS 67-07 M14-73929
SINGULARITIES OF BAINITIC TRANSFORMATION OF AUSTENITE IN CAST IRONS ALLOYED WITH ALUMINUM 67-08 M14-76034
INTERMEDIATE TRANSFORMATION OF AUSTENITE IN WHITE CHROMIUM-NICKEL CAST IRON 67-08 M14-76035
STUDY ON THE MECHANISM OF BAINITE REACTION. PT. 1. INVESTIGATION OF THE GROWTH OF BAINITE IN FE-NI-C ALLOYS BY HOT STAGE MICROSCOPY 67-11 M14-80950
STUDY ON THE MECHANISM OF BAINITE REACTION. PT. 2. TRANSMISSION ELECTRON MICROSCOPE OBSERVATION OF THE PROCESS OF BAINITE REACTION IN AN FE-NI-C ALLOY 67-11 M14-80951
EFFECT OF LOWER BAINITE ON MECHANICAL STRENGTH AFTER TEMPERING 67-11 M17-81145
GROWTH RATE OF BAINITE FROM LOW-CARBON IRON-NICKEL-CARBON AUSTENITE 67-12 M14-82715
THE USE OF IN SITU THERMAL ANALYSIS FOR STUDIES OF TRANSFORMATIONS IN STEELS DURING WELDING 67-12 M14-83497

BAINITE, COMPOSITION EFFECTS
EFFECT OF BAINITE ADDITIONS ON THE TEMPERING OF STEEL 67-10 M10-78609

BAINITE, HARDENING
COMBINED METHOD FOR HARDENING STEEL 67-02 M17-61985

BAINITE, MECHANICAL PROPERTIES
INFLUENCE OF ALLOYING ELEMENTS ON AUSTENITE TRANSFORMATION DURING WELDING OF BAINITIC REINFORCING STEELS 67-02 M14-61970
EFFECT OF ALLOYING ELEMENTS ON THE KINETICS OF THE TRANSFORMATION OF AUSTENITE DURING WELDING OF BAINITIC REINFORCING STEELS 67-10 M14-78827
COMBINED TREATMENT OF STEEL FOR HIGH STRENGTH 67-10 M17-78842

BAINITE, PHASE TRANSFORMATIONS
STUDY OF 9 PER CENT NICKEL LOW-CARBON STEELS--THE PRECIPITATION OF AUSTENITE AND MICROSTRUCTURE

67-02 M14-59114
REVIEW OF EXISTING KNOWLEDGE ON TRANSFORMATIONS OF SUPERCOOLED AUSTENITE 67-02 M14-60287
KINETICS OF THE INTERMEDIATE TRANSFORMATION IN CHROMIUM-NICKEL-MANGANESE STEELS 67-05 M14-68255
ANISOTROPY OF THE RATE OF GROWTH OF ALPHA-PHASE CRYSTALS DURING BAINITE TRANSFORMATION 67-06 M14-72343
KINETICS OF THE DECOMPOSITION OF AUSTENITE AND FORMATION OF MICROSTRUCTURE OF STEEL IN THE BAINITE REGION 67-06 M14-72377

BAKELITE
SEE VINYL RESINS

BAKING
AUTOCLAVE BAKING OF CARBON-GRAPHITE MATERIALS 67-02 M05-61283
CATALYTIC OXIDATION OF FUMES RECOVERS OVEN HEAT IN CONTINUOUS BAKING OF COATED ALUMINUM STRIP 67-08 M10-75499

BALE OUT CRUCIBLE FURNACES
SEE CRUCIBLE FURNACES

BALL BEARINGS
CONTROLLED THERMOMECHANICAL STRENGTHENING AND RECRYSTALLIZATION OF HIGH-CARBON STEELS 67-05 M17-69012
PRODUCTION OF GRADED BALL-BEARING STEEL WITHOUT RECRYSTALLIZATION ANNEALING 67-07 M08-74084
DEGASSING SHKH15 STEEL 67-11 M04-81010
DISTRUBUTION OF NONMETALLIC INCLUSIONS IN AN INGOT OF VACUUM ARC REMELTED BALL BEARING STEEL 67-11 M04-81414
MULTIPURPOSE BEARINGS 67-12 M20-82468
APPLICATION FOR BRIGHT STAINLESS STEELS 67-12 M20-83300

BALL BEARINGS, EXTRUSION
HOT BACKWARD EXTRUSION OF SLEEVES WITH A THIN BOTTOM BY CYLINDRICAL AND TAPERED PUNCHES 67-07 M08-73950

BALL BEARINGS, HEAT TREATMENT
HEAT TREATMENT OF CALIBRATED BALL BEARING STEEL WITH HIGH-FREQUENCY CURRENT 67-08 M10-76110

BALL BEARINGS, MACHINING
DIAMOND TOOLS IMPROVE HONING 67-06 M08-70844

BALL BEARINGS, MANUFACTURING
PRODUCTION OF STANDARDIZED BALL BEARING STEEL WITHOUT RECRYSTALLIZATION ANNEAL 67-05 M08-69698

BALL BEARINGS, MATERIALS
DEOXIDATION IN ELECTROSLAG REMELTING 67-02 M04-61249
PRODUCTION OF BALL BEARING STEEL IN ELECTRIC FURNACES OF VARIOUS CAPACITIES 67-02 M04-62144
INDUCTION HEATING OF CALIBRATED BALL BEARING STEEL 67-02 M10-60852
EFFECT OF THE PURITY OF STEEL AND OF THE CORROSIVE MEDIUM ON LOW-CYCLE FATIGUE 67-02 M17-59655
RESIDUAL STRESSES AND WORK HARDENING DURING VIBRO-POLISHING 67-03 M12-65205
DEOXIDATION PROCESSES DURING ELECTROSLAG REMELTING 67-04 M04-66522
KINETICS OF THE DEGASIFICATION OF MOLTEN STEEL IN A VACUUM 67-04 M04-67868
SELECTING EQUIPMENT FOR STRUCTURAL ANNEALING OF BALL BEARING STEEL 67-06 M10-71261

BALL BEARINGS, MECHANICAL PROPERTIES
FATIGUE TESTING MATERIALS FOR BALL AND ROLLER BEARINGS 67-02 M17-60551
MOLYBDENUM DISULPHIDE DEPOSITS--THEIR FORMATION AND CHARACTERISTICS ON STEEL BALLS 67-03 M17-65600
THE CONTACT ENDURANCE OF BALL BEARING STEEL 67-06 M17-70095
SURFACE LAYERS AND WEAR RESISTANCE OF SHKH15 STEEL TO ROLLING FRICTION 67-08 M17-76007
RUPTURE TESTING BALL BEARING BALLS BY THE HIGH-CENTRIFUGAL FIELDS METHOD 67-09 M17-78160
BALLBEARING LIFE--EFFECT OF SILICOBARIUM AS A DEOXIDIZER, AND OF VACUUMING 67-11 M04-81405
EFFECT OF CYCLIC CONTACT LOADS ON CERTAIN CHARACTERISTICS OF THE CRYSTAL STRUCTURE OF GRADE SHKH15 STEEL 67-12 M17-82480

BALL BEARINGS, MICROSTRUCTURE
REASONS FOR FORMATION OF BRIGHT AND DULL BANDS ON OUTER SURFACE OF SHKH15 STEEL BALL BEARING RINGS AFTER COLD PICKLING 67-12 M13-81844

BALL BEARINGS, QUALITY CONTROL
MICROLOCAL MAGNETOGRAPHIC INSPECTION OF POLISHED SURFACES OF STEEL PIECES 67-04 M19-67087
PROBELMS AND EXPERIENCE IN THE TESTING OF BALL BEARING TUBES IN A FULLY AUTOMATIC INSTALLATION 67-12 M19-83575

BALL BEARINGS, STRUCTURAL MATERIALS
EFFECT OF NONMETALLIC INCLUSIONS ON THE STRENGTH OF QUENCHED SHKH15 STEEL DURING HYDROGENATION 67-01 M17-57665
INFLUENCE OF SLAG ON THE THERMAL PROCESSES IN AN ELECTRIC FURNACE 67-07 M04-73781
EFFECTS OF SLAG ON THERMAL PROCESSES IN ELECTRIC FURNACES 67-09 M04-76544
STUDY OF THE EFFECT OF REPEATED ELECTROSLAG REMELTING ON THE QUALITY OF BALLBEARING STEELS 67-09 M04-76828
CONTINUOUS CONTROL OF TEMPERATURE CONDITIONS IN CASTING KILLED ELECTRIC STEEL 67-09 M04-77863
SURFACE ACTIVITY IN ELECTROSLAG REMELTING 67-10 M04-78426

BALL BEARINGS, WEAR
FRICTION WEAR TESTING OF ANTIFRICTION COATINGS AT UP TO 600 C. IN VACUUM AND INERT GASES 67-10 M17-79207

BALL JOINTS, METAL WORKING
STAMPING OF BALL JOINTS 67-07 M07-73443

BALL JOINTS, WEAR
WEAR RESISTANCE OF SINTERED INSERTS FOR BALL PINS OF AN AUTOMOBILE STEERING SYSTEM 67-08 M17-75431

BALL MILLING
SEE GRINDING /COMMINUTION/

BALLING
SEE AGGLOMERATION

BALLISTIC MISSILE COMPONENTS
SEE ROCKET COMPONENTS

BALLS
SEE SPHERES

BAND SAWS
FLAT PRODUCTS MADE OF HIGH-SPEED STEEL 67-05 M20-69182

BAND SAWS, WELDING
RESISTANCE BUTT WELDING AND HEAT TREATMENT OF BAND SAWS 67-02 M11-60136
THE FLASH WELDING AND HEAT TREATMENT OF BAND SAWS 67-04 M11-67676

BAND SPECTRA
TEMPERATURE-MODULATED REFLECTANCE OF GOLD FROM 2 TO 10 EV 67-05 M15-69592
OPTICAL REFLECTION OF GALLIUM PHOSPHIDE, GALLIUM ARSENIDE, AND THEIR SOLID SOLUTIONS 67-05 M16-69382
ANNEALING OF IMPURITY RECOMBINATION BANDS IN SILICON IRRADIATED BY GAMMA RAYS 67-06 M16-71758
X-RAY SPECTRANALYSIS OF FE-NI ALLOYS 67-07 M15-72580
ON AN EXCITON STRUCTURE IN THE REFLECTION SPECTRUM OF TRIGONAL SELENIUM SINGLE CRYSTALS 67-08 M16-75250
X-RAY SPECTRAL INVESTIGATION OF THE ELECTRONIC STRUCTURE OF THE ELEMENTS OF THE SECOND LARGE PERIOD 67-09 M16-76780
EFFECT OF ALLOYING ON ALUMINUM K AND COPPER L X-RAY EMISSION SPECTRA IN THE ALUMINUM-COPPER SYSTEM 67-09 M16-77436
INFRARED ABSORPTION OF THE GAMMA-INDUCED SURFACE LAYER ON GERMANIUM 67-09 M16-77437
THERMOLUMINESCENCE AND COLOR CENTERS IN LIF 67-09 M16-77438
THE BAND EDGE AND THE ENERGY SPECTRUM OF IN2SE 67-10 M16-79020
LOW TEMPERATURE FAR INFRARED SPECTRA OF SIO2 POLYMORPHS 67-11 M13-81685
OPTICAL PROPERTIES OF THE BETA- PHASE ALLOYS, AUZN, CUZN AND PDIN 67-11 M15-80324
THERMOLUMINESCENT STUDY OF THE COLOR CENTERS IN IRRADIATED POLYCRYSTALLINE MGO 67-11 M15-81686
X-RAY K ABSORPTION EDGES OF ALLOYS. PT. 2. NICKEL-COBALT AND NICKEL-IRON SOLID SOLUTIONS 67-11 M16-80119
STRUCTURE OF THE BAND SPECTRUM OF THE CUBR MOLECULE. PT. 1. ROTATIONAL STRUCTURE OF THE C SYSTEM FO CU63BR81 67-11 M16-80332

BAND SPECTRA, ALLOYING EFFECTS
EFFECT OF ALLOYING ON THE ALUMINUM K AND IRON L X-RAY EMISSION SPECTRA IN THE ALUMINUM-IRON

BINARY SYSTEM 67-05 M16-69219

BAND THEORY

ON THE ELECTRONIC STRUCTURE OF NICKEL-VANADIUM ALLOYS 67-01 M16-57946

THE ELECTRONIC STRUCTURE OF HEXAGONAL ZINC SULFIDE 67-01 M16-57954

CONDUCTIVITY, HALL EFFECT, OPTICAL ABSORPTION, AND BAND GAP OF VERY PURE BORON 67-01 M16-58411

THERMAL AND OPTICAL BAND GAPS OF MONOCRYSTALLINE BETA-RHOMBOHEDRAL BORON 67-01 M16-58412

RECOMBINATION RADIATION OF BORON 67-01 M16-58418

VACUUM-DEPOSITED AMORPHOUS BORON FILMS 67-01 M16-58420

SCATTERING MECHANISMS IN INDIUM ANTIMONIDE AT LOW TEMPERATURES 67-01 M16-58780

THE CONTRIBUTION TO DIELECTRIC CONSTANT FROM INTERBAND TRANSITION IN METALS 67-02 M16-59061

NUCLEAR MAGNETIC RELAXATION IN FERROMAGNETIC TRANSITION METALS 67-02 M16-59478

PHOTOCURRENT AND THERMAL RELEASE TIME STUDIES OF URANIUM DIOXIDE 67-02 M16-60512

BAND STRUCTURE AND FERMI SURFACE FOR RHENIUM 67-02 M16-60762

THE ELECTRONIC STRUCTURE OF BORIDES OF SOME TRANSITION ELEMENTS 67-02 M16-61115

X-RAY L3-SPECTRA AND STRUCTURE OF 3D-, 4S-ENERGY BANDS OF COPPER 67-02 M16-62077

STUDY OF THE STRUCTURE OF THE UNOCCUPIED PORTION OF THE 3D-BAND IN IRON AND COBALT BY X-RAY K-SPECTRA OF ABSORPTION 67-02 M16-62094

OPTICAL PROPERTIES OF EUROPIUM AND BARIUM 67-03 M15-65746

INTERPOLATION SCHEME FOR BAND STRUCTURE OF NOBLE AND TRANSITION METALS--FERROMAGNETISM AND NEUTRON DIFFRACTION IN NI 67-03 M16-65027

ELECTRONIC STRUCTURE OF MERCURY 67-03 M16-65030

QUANTUM OSCILLATIONS DUE TO HIGHER LYING ELECTRON BANDS IN BISMUTH 67-03 M16-65144

SHUBNIKOV-DE HAAS EFFECT OF N-TYPE HGTE 67-03 M16-65647

ELECTRON-HOLE RECOMBINATION IN BISMUTH BELOW 20 K 67-03 M16-65916

THE PHYSICS OF SEMICONDUCTORS, PROCEEDINGS OF THE INTERNATIONAL CONFERENCE 67-04 M16-66738

NEW STUDIES OF THE BAND STRUCTURE OF THE DIAMOND-TYPE CRYSTALS 67-04 M16-66739

ENERGY BAND STRUCTURE OF CDS USING SELF-CONSISTENT OPW AND PSEUDOPOTENTIAL METHODS 67-04 M16-66740

BAND STRUCTURE OF GAAS, GAP, INP AND ALSB.. THE K.P METHOD 67-04 M16-66741

BAND STRUCTURE OF THE SEMICONDUCTING LAYER COMPOUNDS 67-04 M16-66742

OPTICAL PROPERTIES AND ELECTRONIC STRUCTURE OF AMORPHOUS GERMANIUM 67-04 M16-66747

OPTICAL PROPERTIES AND ENERGY BAND STRUCTURE OF ZNS-CDS SINGLE CRYSTALS 67-04 M16-66748

THE EFFECTS OF BAND-POPULATION ON INTER-BAND MAGNETO-OPTICAL PHENOMENA 67-04 M16-66753

ELECTRON EFFECTIVE MASS IN GALLIUM ARSENIDE AS A FUNCTION OF DOPING 67-04 M16-66755

GALVANOMAGNETIC EFFECTS AND BAND STRUCTURE OF CDSB 67-04 M16-66765

THE STRUCTURE OF THE CONDUCTION BAND AND THE ANISOTROPY OF THE ELECTRON SCATTERING IN N-GAAS 67-04 M16-66766

SHUBNIKOV-DE HAAS EFFECT AND ELECTRON BAND STRUCTURE OF CADMIUM ARSENIDE 67-04 M16-66768

SHUBNIKOV-DE HAAS EFFECT IN TELLURIUM 67-04 M16-66770

EFFECT OF DOPING ON THE ELECTRON SPIN RESONANCE IN PHOSPHORUS-DOPED SILICON 67-04 M16-66789

SHUBNIKOV-DE HAAS INVESTIGATIONS OF THE BI-SB --0-30 PER CENT-- SYSTEM 67-04 M16-66794

GALVANOMAGNETIC STUDIES OF SN-DOPED BI 67-04 M16-66795

DETERMINATION OF THE ENERGY BAND PARAMETERS OF BISMUTH BY GIANT QUANTUM ATTENUATION OF SOUND WAVES 67-04 M16-66799

TRANSMUTATION DOPING AND RECOIL EFFECTS IN SEMICONDUCTORS EXPOSED TO THERMAL NEUTRONS 67-04 M16-67308

ELECTRONIC ENERGY BANDS IN GAAS FOR IMAGINARY CRYSTAL MOMENTUM 67-04 M16-67365

X-RAY SPECTRA, ELECTRON STRUCTURE AND PROPERTIES OF TITANIUM METALLIC COMPOUNDS 67-04 M16-67372

SOFT X-RAY ABSORPTION SPECTRA OF METALS AND ALLOYS. PT. 1. BE, AL, SB, BI AND AL-MG ALLOYS 67-04 M16-67473

THE ELECTRICAL RESISTIVITY OF THERMOMETRICALLY PURE PLATINUM BELOW 11 K 67-04 M16-68162

MAGNETOACOUSTIC EFFECT IN THALLIUM 67-05 M15-68285

RIGID-BAND BEHAVIOR IN ALUMINUM-BASED ALLOYS--ELECTRONIC SPECIFIC HEAT 67-05 M15-69816

BAND STRUCTURE OF A CUPROUS OXIDE CRYSTAL 67-05 M16-68579

K-SPECTRA AND ENERGY BAND STRUCTURE OF METALLIC VANADIUM 67-05 M16-68836

COMBINED INTERPOLATION SCHEME FOR TRANSITION AND NOBLE METALS 67-05 M16-69802

INTERBAND MAGNETOABSORPTION IN INAS AND INSB 67-06 M16-69920

STRUCTURE OF THE VALENCE BAND OF HEAVILY DOPED LEAD TELLURIDE 67-06 M16-70503

OPTICAL ABSORPTION OF ALUMINIUM AND SOME ALUMINIUM-MAGNESIUM ALLOYS 67-06 M16-70572

TEMPERATURE-DEPENDENT ISOMER SHIFT AND ANHARMONIC BINDING OF SN119 IN NB3SN 67-06 M16-71173

MAGNETIC, SUPERCONDUCTING, AND OTHER PHASE TRANSITIONS WITHIN THE METALLIC STATE 67-06 M16-71202

SELF-ABSORPTION IN SOFT X-RAY SPECTRA OF ALLOYS 67-06 M16-71288

PHOTOEMISSION STUDY OF THE ELECTRONIC STRUCTURE OF CDTE 67-06 M16-72095

BAND STRUCTURE OF CUBIC ZNS --KORRINGA-KOHN-ROSTOKER METHOD-- 67-06 M16-72096

LIGHT HOLES IN BISMUTH-TIN ALLOYS 67-07 M15-72640

MAGNETIC PROPERTIES OF SOME ALLOYS OF THORIUM WITH HOLMIUM AND ERBIUM 67-07 M15-73586

AN APPROXIMATE DENSITY OF STATES CURVE AND ITS RELATION TO THE MEASURED ELECTRICAL RESISTIVITY OF GOLD-PALLADIUM ALLOYS 67-07 M16-73908

ON THE D-BAND STRUCTURE OF BCC FE 67-07 M16-73995

LATTICE DYNAMICS OF ALUMINUM 67-07 M16-74016

SEMICONDUCTORS AND SEMIMETALS. V. 1. PHYSICS OF 3-V COMPOUNDS 67-07 M16-74201

METHODS OF BAND CALCULATIONS APPLICABLE TO 3 -V COMPOUNDS 67-07 M16-74203

EFFECT OF HEAVY DOPING ON THE SEMICONDUCTOR BAND STRUCTURE 67-07 M16-74204

ENERGY BAND STRUCTURES OF MIXED CRYSTALS OF 111-V 67-07 M16-74205

THE FINE STRUCTURE OF THE L BETA2-EMISSION BAND OF PALLADIUM 67-08 M13-74273

OPTICAL PROPERTIES OF ZINC TELLURIDE 67-08 M15-74668

ON THE ELECTRONIC STRUCTURE OF BISMUTH AND ITS DILUTE ALLOYS 67-08 M16-74430

EFFECT OF STRESS ON GERMANIUM AND SILICON P-N JUNCTIONS 67-08 M16-74605

LOW-FIELD DE HAAS-VAN ALPHEN STUDY OF THE FERMI SURFACE OF ALUMINUM 67-08 M16-74660

DIRECT EDGE PIEZOREFLECTANCE IN GE AND GAAS 67-08 M16-75007

THE PENETRATION DEPTH IN TWO BAND MODEL SUPERCONDUCTORS 67-08 M16-75238

THE BAND STRUCTURE, SPECIFIC HEAT, MAGNETIC SUSCEPTIBILITY, AND ANOMALOUS THERMAL EXPANSION OF DELTA PLUTONIUM 67-09 M15-76316

ELECTRONIC BAND STRUCTURES OF PLUTONIUM AND ITS MONOCARBIDE 67-09 M16-76317

EFFECT OF ELECTRON-HOLE SCATTERING RESONANCE ON X-RAY EMISSION SPECTRUM 67-09 M16-77157

ENERGY BANDS IN ORDERED BETA-BRASS 67-09 M16-77159

RIGID-BAND MODEL OF ALLOYS 67-09 M16-77164

SELF-CONSISTENT ENERGY BANDS OF METALLIC COPPER BY THE AUGMENTED-PLANE-WAVE METHOD 67-09 M16-77167

ELECTRONIC SPECTRUM OF CRYSTALLINE COPPER 67-09 M16-77169

SPIN-POLARIZED ELECTRONIC ENERGY-BAND STRUCTURE IN EUS 67-09 M16-77173

RADIATIVE RECOMBINATION IN N-TYPE INP 67-09 M16-77176

THE BAND EDGE AND THE ENERGY SPECTRUM OF IN2SE 67-10 M16-79020

ELECTRONIC BAND STRUCTURE OF TELLURIUM 67-10 M16-79357

CONTRIBUTION TO THE THEORY OF INTERBAND MAGNETIC BREAKDOWN IN METALS 67-10 M16-79470
ESTIMATE OF THE NUMBER OF ELECTRONS IN THE VALENCE BAND FROM X-RAY EMISSION SPECTRA 67-11 M13-80180
LATTICE DISTORTION OF VANADIUM METAL BY JAHN-TELLER -LIKE ENERGY-SPLITTING 67-11 M13-81475
SEMICONDUCTING A2B4C25 COMPOUNDS 67-11 M15-80601
TWO-BAND CONDUCTION IN PT, W, AND PB 67-11 M16-80325
ELECTROREFLECTANCE MEASUREMENTS ON GAXIN1-XAS ALLOYS 67-11 M16-80326
THE V51 --N, GAMMA-- V52 REACTION 67-11 M16-80327
ELECTRONIC STRUCTURE OF ALLOYS OF 3D TRANSITION METALS WITH ALUMINUM 67-11 M16-81108
SELF-CONSISTENT BAND STRUCTURE OF ALUMINUM BY AN AUGMENTED-PLANE-WAVE METHOD 67-11 M16-81394
BAND STRUCTURE OF DOPED BISMUTH USING THE SHUBNIKOV-DE HAAS EFFECT 67-11 M16-81482
ELECTRON ENERGY LEVELS IN CU3AU 67-11 M16-81483
EXPERIMENTAL TEST OF RIGID BAND MODELS FOR CR BY MEANS OF CR-V-MN TERNARY DILUTE ALLOYS 67-12 M16-81760
FIELD-INDUCED CHANGES IN THE BAND STRUCTURE AND FERMI SURFACE OF NICKEL 67-12 M16-82200
ELECTRON STRUCTURES OF ALLOYS OF THE SYSTEM NB-ZR 67-12 M16-82796

BAND THEORY, ALLOYING EFFECTS
ELECTRONIC STRUCTURE OF ALPHA BRASS 67-05 M16-69801

BAND THEORY, PRESSURE EFFECTS
PRESSURE EFFECTS ON CHARGE TRANSPORT IN NICKEL AND CHROMIUM OXIDES 67-09 M16-77443

BAND THEORY, STRESS EFFECTS
BAND STRUCTURE OF GRAY TIN UNDER UNIAXIAL STRESS 67-08 M16-75004

BANDED STRUCTURE
THE EFFECT OF COHERENT PARTICLES ON THE ANNEALING BEHAVIOR OF A COLD-WORKED CU-2 PER CENT CO ALLOY 67-02 M14-61819
DEVELOPMENT OF SLIP BANDS DURING FATIGUE TESTING OF STEEL SPECIMENS 67-02 M17-61750
BASIC MECHANISMS OF STRAIN-HARDENING IN CERAMICS 67-03 M17-65333
BANDING IN CARBON AND LOW-ALLOY STEEL--A BRIEF REVIEW 67-05 M13-69871
CONTROLLED THERMOMECHANICAL STRENGTHENING AND RECRYSTALLIZATION OF HIGH-CARBON STEELS 67-05 M17-69012
ON THE DIRECTION OF SLIP BANDS IN UNIDIRECTIONAL EXTENSION OF POLYCRYSTALLINE COPPER AND ALUMINUM 67-06 M13-70156
DIRECT OBSERVATION OF GROWTH OF DEFORMATION TWINS IN FE-4.5 PER CENT SI CRYSTALS 67-06 M13-72149
RATE OF PROPAGATION OF PLASTIC DEFORMATION IN THE LUDERS BAND 67-06 M17-70592
WORK SOFTENING INDUCED YIELDING IN MAGNESIUM SINGLE CRYSTALS 67-06 M17-70792

BANDED STRUCTURE, STRESS EFFECTS
THE NATURE AND FORMATION OF BANDS OF DEFORMATION IN SINGLE CRYSTALS OF ALPHA-PHASE COPPER-ALUMINUM ALLOYS 67-07 M14-73055
THE ORIGIN OF RIDGING IN 17 PER CENT CR STAINLESS STEEL HOT STRIPS 67-09 M13-78241
DISTURBANCE OF THE METAL STRUCTURE IN THE SLIP BANDS BY FATIGUE 67-10 M13-78710

BANDWIDTH
HIGH-PRESSURE STUDY OF THE FIRST-ORDER PHASE TRANSITION IN MNAS 67-08 M16-75930

BARBED WIRE
SEE FENCES

BARE METAL ARC WELDING
SEE UNSHIELDED ARC WELDING

BARITE, EXTRACTION
THE FLOTATION OF BARITE BY ANION COLLECTORS 67-06 M02-72101

BARIUM, ALLOYING ADDITIVE
THE INFLUENCE OF ALLOYING ELEMENTS ON ALUMINUM ANODES IN SEA WATER 67-03 M18-65473
EFFECT OF CHLORIDE SALTS OF ALKALI AND ALKALI-EARTH ELEMENTS ON THE PROPERTIES OF 15KH1M1FL STEEL ELEMENTS ON THE PROPERTIES 67-12 M04-83028

BARIUM, ATOMIC PROPERTIES
ELECTRONIC STRUCTURE OF CA, SR, AND BA UNDER PRESSURE 67-06 M16-69907

BARIUM, BINARY SYSTEMS
THE BINARY SYSTEMS SR-IN AND BA-IN 67-04 M13-66159
INVESTIGATION OF BISMUTH ALLOYS WITH BARIUM AND BISMUTH ALLOYS WITH STRONTIUM 67-05 M13-69239
THE REACTIVITY OF LIQUID METALS 67-08 M14-75555

BARIUM, ELECTRICAL PROPERTIES
THE RESISTIVITY OF CALCIUM, STRONTIUM AND BARIUM UNDER PRESSURE 67-07 M15-73143

BARIUM, EMISSION
ADSORPTION AND ELECTRON EMISSION OF ALKALINE-EARTH METAL FILMS ON TUNGSTEN, IRIDIUM, AND RHODIUM 67-06 M16-70508

BARIUM, FERRITES
DYNAMIC BEHAVIOR OF MAGNETIZATION PROCESSES IN BARIUM FERRITE IN HIGH PULSED MAGNETIC FIELDS 67-02 M15-61035

BARIUM, INTERMETALLICS
DOMAIN STRUCTURE OF HEXAGONAL FERRIMAGNETIC OXIDES WITH HIGH ANISOTROPY FIELD 67-01 M15-57120
STRUCTURE OF THE TWO NEW INTERMETALLIC PHASES-- SRCU5 AND BAPD5 67-06 M13-70120

BARIUM, OPTICAL PROPERTIES
OPTICAL PROPERTIES OF EUROPIUM AND BARIUM 67-03 M15-65746

BARIUM, PHASES /STATE OF MATTER/
COMMENT ON THE BOUNDARY OF THE TRANSFORMATION BA --BODY-CENTERED-- BA --COMPACT HEXAGONAL-- 67-06 M14-72013

BARIUM COMPOUNDS, CRYSTAL GROWTH
COMPOSITIONAL INHOMOGENEITY OF --BA, PB-- TIO3 CRYSTALS 67-08 M14-75991

BARIUM COMPOUNDS, CRYSTAL LATTICES
CRYSTALLOGRAPHY OF BA3UFE2O9 AND SR3UFE2O9 COMPOUNDS 67-09 M13-76468

BARIUM COMPOUNDS, ELECTRICAL PROPERTIES
HALOGEN TREATMENT OF BATIO3 SEMICONDUCTORS 67-08 M15-75990

BARIUM COMPOUNDS, FERRITES
QUANTITATIVE DETERMINATION OF BARIUM FERRITE TEXTURE 67-02 M15-61036

BARIUM COMPOUNDS, MAGNETIC PROPERTIES
IMPROVING THE MAGNETIC PROPERTIES OF BARIUM FERRITE BY THE ADDITION OF BI2O3 67-02 M15-59742
MAGNETIC PROPERTIES OF COBALT AND BARIUM FERRITES 67-02 M18-62089
CRYSTAL ANISOTROPY AND SATURATION MAGNETIZATION OF HARD FERRITES WITH A COMPOSITION NEAR THE M-COMPOUND PREPARED BY MEANS OF THE VERNEUIL METHOD 67-06 M05-70996
ON THE PROCESS OF REVERSAL OF MAGNETIZATION IN BARIUM FERRITE POWDERS 67-06 M15-71914
MAGNETS MADE OF THE PERMANENT MAGNET MATERIALS OXIT AND OXILIT FOR THE FIELD EXCITATION OF D-C MOTORS 67-08 M20-75068
DOMAIN-WALL MOTION IN BARIUM FERRITE SINGLE CRYSTALS 67-09 M15-77445
THE ELECTRON PARAMAGNETIC RESONANCE IN REDUCED BATIO3 CRYSTALS 67-11 M15-80319

BARIUM COMPOUNDS, OPTICAL PROPERTIES
FAR-INFRARED OPTICAL PROPERTIES OF CAF2, SRF2, BAF2 AND CDF2 67-09 M15-77178

BARIUM COMPOUNDS, THIN FILMS
FERROELECTRICITY OF BARIUM TITANATE THIN FILMS OF LESS THAN ONE MICRON THICKNESS 67-12 M15-82015

BARREL FINISHING
SEE ALSO BARREL TUMBLING
ON THE BARREL FINISHING OF ALUMINUM SILICON ALLOY CASTINGS 67-01 M12-57618
SURFACE TREATMENT OF BASE METALS PRIOR TO ELECTROPLATING. PT. 2 67-04 M12-67054
VIBRATORY FINISHING 67-05 M12-68438
RESEARCHES ON BARREL FINISHING 67-06 M08-70606
27 DIFFERENT JOBS BY BARREL FINISHING. PT. 1 67-07 M12-72401
27 DIFFERENT JOBS BY BARREL FINISHING 67-08 M12-74398
SEVEN VARIABLES AFFECT ABRASIVE FINISHING 67-09 M12-76558
RESEARCHES ON BARREL FINISHING 67-12 M12-83598

BARREL FURNACES
SEE ROTARY HEARTH FURNACES

BARREL PLATING
PROTECTING METALS WITH ELECTROLESS NICKEL COATINGS 67-02 M18-61141

BARREL PLATING
THE CULMO HIGH SPEED BRIGHT ACID TIN PROCESS FOR RACK OR BARREL PLATING 67-07 M12-74164
NEW AUTOMATIC PLATING PLANT AT METAL COLOURS LTD., SLOUGH 67-11 M12-80416
FLEXIBILITY OF OPERATION FOR JOBBING PLATER 67-11 M12-81494
BARREL PLATING, AUTOMATION
HIGH-SPEED BARREL ZINC PLATING 67-08 M12-76046
AUTOMATIC BULK-PLATING OF SMALL PARTS BY THE BARREL METHOD 67-10 M12-79678
BARREL TUMBLING
VIBRATION AND TUMBLING--A NEW DIMENSION IN FINISHING 67-03 M12-65664
BARRELS /CONTAINERS/
THE PRODUCTION OF STAINLESS-STEEL BEER CASKS 67-06 M20-71898
BARRELS /CONTAINERS/, WELDING
PULSED ARC WELDS ALUMINIUM BARRELS 67-03 M11-65674
BARS
TENSION TESTS OF REINFORCING STEELS AT GRADUAL TEMPERATURE 67-08 M17-74622
BARS, DRAWING
DRAWING TUBES AND BARS ON ONE BENCH 67-07 M07-74154
BARS, FORGING
CHOOSING ALLOY STEEL BARS FOR FORGING 67-08 M07-75496
BARS, FORMING
FORMING BAR, TUBE, SHAPES AND WIRE 67-08 M08-74844
BARS, HEAT TREATMENT
HEAT TREATMENT OF STEEL BARS 67-08 M10-74751
THE SUITABILITY OF THE END QUENCH TEST AND THE TIME-TEMPERATURE-TRANSFORMATION DIAGRAM FOR THE PREDICTION OF THE HARDENING OF ROUND STEEL BARS 67-08 M10-75590
BARS, MECHANICAL PROPERTIES
THE MECHANICS OF BRITTLE FRACTURE 67-02 M17-60803
MECHANICAL PROPERTIES AND STRUCTURE OF COLD-EXTRUDED, ALUMINUM-ALLOY TUBE AND ROD 67-04 M17-67533
BARS, METAL WORKING
HERF SHEARS EDGES CLEAN 67-02 M07-61006
INFLUENCE OF ELECTROSLAG REMELTING AND HOT WORKING ON THE STABILITY OF DMO 5 DRILLS 67-09 M07-77225
BARS, POWDER METALLURGY
A NEW METHOD FOR COMPACTING METAL OR CERAMIC POWDERS INTO CONTINUOUS SECTIONS 67-07 M09-73864
BARS, ROLLING
PLASTIC PHENOMENA IN ROLLING 67-02 M07-59809
A ROD AND BAR MILL FOR SPECIALTY STEELS 67-02 M07-60235
AUTOMATION OF BAR AND ROD MILLS 67-05 M20-69484
THE PROCESSING OF CONTINUOUSLY CAST BILLETS INTO BARS AND SHAPES 67-08 M07-75113
FEATURES OF THE MODERNIZED BAR AND ROD MILL FACILITIES AT COPPERWELD STEEL 67-09 M07-76669
INVESTIGATION OF ROLLED PRODUCTS FROM CONTINUOUSLY CAST RECTANGULAR BILLETS 67-09 M07-77634
ROLLING CONTINUOUSLY CAST RECTANGULAR STEEL BILLETS 67-11 M07-80922
NEW PROCESS IMPROVES MACHINABILITY OF BAR STOCK 67-11 M07-80933
MEASUREMENTS OF PRESSURE DISTRIBUTION IN THE DRAWING OF TUBES AND BARS 67-11 M07-81375
BARS, SURFACE FINISHING
FINISHING TECHNIQUES FOR SPECIAL ROLLED STEEL 67-08 M12-75904
BARS, WELDING
FRICTION WELDING. PT. 10. WELDING OF SMALL ROUND BARS 67-08 M11-75304
BARYTES
SEE BARITE
BASAL PLANE
KIKUCHI MAPS FOR HCP AND BCC CRYSTALS 67-05 M13-69221
BASAL-PLANE ANISOTROPY OF GADOLINIUM 67-07 M15-73582
BASAL DISLOCATION MOBILITY IN ZINC SINGLE CRYSTALS 67-11 M13-81540
PLASTICITY OF MAGNESIUM CRYSTALS 67-12 M17-82763
BASE EXCHANGE
SEE CATION EXCHANGING
BASE METAL, ELECTRICAL PROPERTIES
ELECTRICAL PROPERTIES OF COPPER-ALUMINUM JOINTS MADE BY ARGON ARC WELDING 67-04 M15-66439
THE ELECTRICAL PROPERTIES OF TIG WELDED JOINTS BETWEEN COPPER AND ALUMINIUM 67-07 M15-72698
BASES /INORGANIC/
SEE HYDROXIDES
BASIC ARC FURNACES
SEE BASIC REFRACTORIES
ELECTRIC ARC FURNACES
BASIC BESSEMER CONVERTERS
MELTING LOSSES IN STEELMAKING PROCESSES 67-07 M04-72563
BASIC BESSEMER PROCESS
SEE BASIC BESSEMER CONVERTERS
BASIC CONVERTERS
SEE ALSO BASIC BESSEMER CONVERTERS
KALDO CONVERTERS
LD CONVERTERS
DESULFURIZATION OF STEEL IN OXYGEN CONVERTERS 67-01 M04-57177
MELTING OF ELECTRICAL STEELS IN BASIC OXYGEN CONVERTERS 67-01 M04-57695
COMPUTER CONTROL OF THE BASIC OXYGEN PROCESS 67-01 M04-57906
UTILIZATION OF SCRAP IN BOS PROCESSES IN SMALL CONVERTERS 67-01 M04-58093
REFRACTORIES FOR BASIC OXYGEN FURNACES 67-01 M04-58454
OPERATION OF THE BASIC OXYGEN SHOP AT GREAT LAKES STEEL DIVISION, NATIONAL STEEL CORPORATION 67-03 M04-65517
REVIEW OF OPERATIONS TO DATE, COLORADO FUEL AND IRON CORPORATION, PUEBLO, COLORADO, JONES AND LAUGHLIN STEEL CORPORATION, CLEVELAND, OHIO 67-03 M04-65519
GUNNING OF HOT-METAL LADLES IN A BASIC OXYGEN SHOP 67-03 M04-65522
CONTINUOUS CASTING AT NOVO LIPETSK 67-07 M04-72810
INVESTIGATION OF THE VARIATION IN PROPERTIES OF PERMANENT TAR-DOLOMITE LININGS IN A BASIC CONVERTER AS A FUNCTION OF OPERATING STRESSES 67-07 M04-73266
EFFECT OF TECHNOLOGICAL FACTORS ON IRON OXIDE CONTENT IN OXYGEN-CONVERTER SLAG 67-08 M04-74576
BASIC CONVERTERS, CHARGING
UTILIZATION OF DUST FROM STEELMAKING PROCESS AS BRIQUETS 67-11 M04-80502
BASIC CONVERTERS, DESIGN
ENGINEERING EXPERIENCE IN BASIC OXYGEN STEELWORKS 67-06 M04-71947
LOGISTICS IN STEELMAKING 67-09 M04-77147
BASIC CONVERTERS, DUST CONTROL
PROBLEMS OF DUST COLLECTION IN THE BASIC OXYGEN CONVERTER 67-06 M04-71948
BASIC CONVERTERS, FUELS
HIGH SCRAP CHARGE IN THE B. O. F. UTILIZING SOLID FUEL 67-06 M04-70976
BASIC CONVERTERS, LINING /PROCESS/
HOT REPAIRS TO THE LINING OF BASIC OXYGEN FURNACES 67-07 M04-72437
DEVELOPMENT OF BALANCED BASIC OXYGEN FURNACE LININGS 67-07 M05-73092
BASIC CONVERTERS, MATHEMATICAL MODELS
FUNDAMENTALS OF CONTROL SYSTEM DESIGN FOR THE BASIC OXYGEN PROCESS 67-01 M04-57905
BASIC CONVERTERS, STEEL MAKING
REFRACTORY GUNNING OF BASIC OXYGEN FURNACES 67-11 M04-80115
BASIC ELECTRIC FURNACES
SEE BASIC REFRACTORIES
ELECTRIC FURNACES
BASIC OPENHEARTH PROCESS
SEE ALSO DUPLEX OPENHEARTH PROCESS
USE OF SCRAP IN THE BOS PROCESS 67-01 M04-58092
PROGRESS IN OPEN HEARTH STEELMAKING 67-01 M04-58501
EFFECT OF HYDROGEN OF BOS STEEL 67-01 M17-57671
MAKING TUNGSTEN-BEARING STEEL FOR THE PRODUCTION OF HIGH-STRENGTH TUBES 67-02 M04-61956
HIGH-DENSITY PREPARATION OF HOME SCRAP FOR OPEN HEARTH FURNACES 67-03 M04-65503
USE OF PELLETS FOR OPEN HEARTH CHARGE AND FEED OXIDE 67-03 M04-65505

STEEL CONTAINING TUNGSTEN MELTED FOR HIGH-TENSILE TUBES 67-04 M04-67774
INFLUENCE OF PRELIMINARY DEOXIDATION ON QUALITY OF OPENHEARTH STEEL TREATED WITH ANYTHETIC SLAG IN A LADLE 67-05 M04-68546
EFFECT OF PHASE COMPOSITION OF HEARTHS ON THEIR DURABILITY 67-05 M04-68549
COMPARISON OF THE PROPERTIES OF CARBON STEELS MADE IN ACID INDUCTION AND BASIC ARC FURNACES 67-06 M17-71107
EFFECT OF PRELIMINARY DEOXIDATION ON QUALITY OF OPEN-HEARTH STEEL TREATED WITH SYNTHETIC SLAG IN THE LADLE 67-07 M04-72457
THE EFFECT OF PHASE COMPOSITION OF HEARTHS ON HEARTH LIFE 67-07 M04-72460
CHEMCIAL SEALING OF STEEL INGOTS 67-07 M04-73011
FACTORS AFFECTING DECARBURIZATION RATE AND OXYGEN CONTROL IN THE BASIC OH METHOD 67-10 M04-79097

BASIC OPENHEARTH STEEL, CHEMICAL ANALYSIS
MICRODETERMINATION OF CARBON IN METALS BY GAS CHROMATOGRAPHY 67-09 M19-77810

BASIC OXYGEN FURNACES
SEE BASIC CONVERTERS
OXYGEN BLOWN CONVERTERS

BASIC OXYGEN PROCESSES
SEE OXYGEN STEEL MAKING

BASIC OXYGEN STEEL MAKING
SEE OXYGEN STEEL MAKING

BASIC REFRACTORIES
SEE ALSO CHROMITE REFRACTORIES
MAGNESITE REFRACTORIES
DESIGN AND OPERATION OF REPUBLICS BOF SHOP AT GADSDEN 67-01 M04-58491
REFRACTORIES IN TRANSITION 67-01 M05-58494
GUNNITING THE BACKWALLS OF OPENHEARTH FURNACES AT THE ZAPOROZHSTAL WORKS 67-05 M04-68547
DEVELOPMENT TENDENCIES IN BASIC REFRACTORIES IN FOUNDRIES 67-06 M05-71189
EFFECT OF THE REFRACTORY LINING ON THE PROPERTIES OF CAST IRON 67-06 M06-71187
BACK WALLS OF OPEN-HEARTH FURNACES GUNNITED AT ZAPOROZHSTAL WORKS 67-07 M04-72458
EXPERIENCE WITH THREE BASIC ROOF O. H. INSTALLATIONS AT THE DURGAPUR STEEL PLANT 67-10 M04-78748

BASIC REFRACTORIES, COATING
GUNNING OPEN HEARTH FURNACES 67-03 M04-65520
GUNNING OF HOT-METAL LADLES IN A BASIC OXYGEN SHOP 67-03 M04-65522

BASIC REFRACTORIES, PHYSICAL PROPERTIES
BEHAVIOR OF HIGH-FIRED BASIC BRICK IN SPRUNG ARCHES 67-09 M05-76455

BASIC REFRACTORIES, REACTIONS /CHEMICAL/
STABILITY OF REFRACTORIES DURING VACUUM DEOXIDATION OF STEEL 67-03 M04-65357

BASIC REFRACTORIES, SERVICE TIME
RESISTANCE OF MAGNESIUM REFRACTORIES TO REACTION PRODUCTS OF COPPER SMELTING 67-02 M04-59778

BASIC REFRACTORIES, STEEL MAKING
DEVELOPMENT OF PRESCRIPTION FURNACE LININGS 67-06 M04-71003

BASIC REFRACTORIES, STRUCTURAL MATERIALS
A GUIDE TO SELECTING MODERN REFRACTORIES 67-10 M05-79177

BASICITY
SEE PH

BASKETS
HOW GRAIN SIZE AFFECTS LIFE OF HEAT TREATING BASKETS 67-06 M20-72246

BATCH ANNEALING
SEE ALSO PULSE HEATING
VACUUM ANNEALING
A NEW APPROACH TO BATCH ANNEALING 67-07 M10-72928

BATCH FURNACES
SEE BATCH TYPE FURNACES

BATCH OVENS
SEE BATCH TYPE FURNACES

BATCH TYPE FURNACES
SEE ALSO ACID CONVERTERS
BASIC BESSEMER CONVERTERS
BASIC CONVERTERS
BELL FURNACES
BESSEMER CONVERTERS
BOTTOM BLOWN CONVERTERS
CRUCIBLE FURNACES
ELECTRON BEAM FURNACES
KALDO CONVERTERS
LD CONVERTERS
OXYGEN BLOWN CONVERTERS
PLASMA ARC FURNACES
ROTARY MELTING FURNACES
SOAKING PITS
STEEL CONVERTERS
TILTING OPENHEARTH FURNACES
TOP BLOWN CONVERTERS
VACUUM FURNACES
VACUUM INDUCTION FURNACES
LARGE STEEL CASTINGS HEAT TREATED IN SELF-GENERATING ATMOSPHERE FURNACE 67-01 M10-58448
HEAT TREATING STEEL IN SELF-GENERATING ATMOSPHERE FURNACES 67-04 M10-67328

BATHS
SEE ALSO METAL BATHS
SALT BATHS
RAPID ANALYSIS IN ELECTROLYTIC OPERATIONS 67-06 M12-72156
METAL FINISHING GUIDEBOOK DIRECTORY FOR 1967 67-08 M12-76203
STUDIES ON BRIGHT AND LEVELED COPPER DEPOSITS FROM CYANIDE BATHS. PT. 3. EFFECTS OF VARIOUS PLATING CONDITIONS AND ADDITIVES ON LEVELING ACTION OF COPPER CYANIDE BATHS 67-11 M12-80504
METALLURGICAL STUDIES ON ELECTRICAL CONTACT MATERIALS. PT. 3. STUDIES ON BATH COMPOSITIONS FOR ELECTROPLATING OF SILVER-COPPER ALLOYS 67-11 M12-80506
NICKEL PLATING BY CHEMICAL REDUCTION 67-11 M12-80578

BATHS, CHEMICAL ANALYSIS
THE DETERMINATION OF SULFATE IN CHROMIUM-PLATING BATHS 67-01 M19-58439
THE DIRECT ELECTROCHEMICAL DETERMINATION OF THE OXYGEN CONTENT OF IRON BATHS. PT. 3. EFFECT OF COBALT, NICKEL, CHROMIUM AND VANADIUM ON THE ACTIVITY OF OXYGEN IN IRON BATHS 67-09 M19-77347

BATHS, COATING
USING EPOXY MATERIALS FOR PROTECTIVE COATINGS OF PICKLING BATHS 67-06 M12-71265
USE OF EPOXIDE SUBSTANCES AS PROTECTIVE COATINGS FOR PICKLING BATHS 67-08 M12-75734

BATHS, FILTRATION
FILTRATION OF ELECTROPLATING SOLUTIONS 67-10 M12-78455

BATHS, INHIBITION
DETERMINATION OF THE EFFECTIVENESS OF INHIBITORS IN PICKLING SOLUTIONS 67-07 M12-72558

BATHS, MAGNETIC PROPERTIES
COMPUTER CALCULATION OF MAGNETIC EFFECTS IN THE BATH OF ALUMINUM CELLS 67-11 M03-81337

BATHS, THERMAL MEASUREMENTS
DIGITAL TEMPERATURE MEASUREMENTS WITH IMMERSION THERMOCOUPLES 67-08 M19-75114

BATTERIES /ELECTRIC/
SEE ELECTRIC BATTERIES

BAUER VOGEL PROCESS
SEE ANODIZING

BAUSCHINGER EFFECT
THE CYCLIC STRAIN BEHAVIOR OF CRYSTALS OF ALUMINUM-4 WT PER CENT COPPER. PT. 1. THE BAUSCHINGER EFFECT 67-02 M17-60637
A REVIEW OF THE MECHANISMS OF FATIGUE 67-04 M17-66171
RESIDUAL STRAINS AND DISPLACEMENTS WITHIN THE PLASTIC ZONE AHEAD OF A CRACK 67-04 M17-66291
PLASTICITY LAWS IN CREEP OF POLYCRYSTALLINE METALLIC MATERIALS AT ELEVATED TEMPERATURES 67-07 M17-72978
THE BRITTLENESS OF METALLIC MATERIALS UNDER TENSION STRESSES 67-07 M17-73074
ON BAUSCHINGERS EFFECT DURING BENDING OF SPRING STEEL STRIP 67-07 M17-73173
EFFECT OF PROGRAMMED LOADING ON FLOW STRESS OF METALS DURING CYCLICAL STRAINING 67-08 M17-74643

BAUXITE, BENEFICIATION
A HYDROCHEMICAL METHOD OF REPROCESSING ALUMINA-BEARING RAW MATERIALS 67-02 M02-61546
THE GLADSTONE ALUMINA PLANT STORY 67-04 M02-67256
PROCESSING OF HIGH-IRON ARKANSAS BAUXITE ORES 67-05 M02-69559
ADAPTATION OF THE PEDERSEN PROCESS TO THE

BAUXITE
FERRUGINOUS BAUXITES OF THE PACIFIC NORTHWEST 67-06 M02-72082
PROBLEMS OF WET GRINDING, REPRESENTED AT BAUXITE CRUSHING 67-09 M02-77531
ON THE SILICIC ACID IN BAYER PROCESS 67-10 M02-79943
GO DIRECTLY TO ALUMINUM 67-12 M02-81896
CHEMICAL ENGINEERING OPERATIONS IN THE PRODUCTION OF ALUMINA 67-12 M02-83078
BAUXITE, CHEMICAL ANALYSIS
X-RAY-DIFFRACTOMETRIC EXAMINATION OF THE MINERAL COMPOSITION OF BAUXITE 67-05 M03-68791
BAUXITE, EXTRACTION
PROBLEMS OF BAUXITE TREATMENT 67-09 M03-77030
BAUXITE, LEACHING
METHOD OF LEACHING BAUXITES 67-06 M02-70933
BAUXITE, REACTIONS /CHEMICAL/
THE CHEMICAL TECHNOLOGY OF PROCESSING BAUXITES. PT. 1. THE SYSTEM NA2O-AL2O3-H2O 67-08 M14-75322
BAUXITE, REDUCTION /CHEMICAL/
INVESTIGATION OF THE CHEMICAL COMPOSITION AND STRUCTURE OF SODIUM ALUMOSILICATES AND OF THE REDUCTION IN LOSSES OF CAUSTIC SODA IN THE BAYER PROCESS. PT. 4 67-12 M02-83320
BAUXITE, REFINING
EFFECT OF THE WASHING PROCESS ON THE SETTLING RATE OF RED MUDS FROM ALUMINA PRODUCTION 67-04 M03-67529
METHOD OF PROCESSING HIGH-SILICA HYDRAGILLITE BAUXITES 67-06 M02-70940
METHOD OF PROCESSING HIGHLY FERRUGINOUS AND HIGHLY SILICIOUS BAUXITES 67-06 M03-70934
METALLURGICAL TESTING OF HAWAIIAN FERRUGINOUS BAUXITES--CONCLUDING REPORT 67-07 M03-74000
BAUXITE, THERMAL PROPERTIES
THERMAL PROPERTIES OF BAUXITES FOR THE SOURCE MATERIALS OF DIRECT REDUCTION STUDIES ON THE PRODUCTION OF CRUDE ALUMINIUM ALLOY BY THE DIRECT REDUCTION OF ALUMINOUS ORES 67-09 M03-77250
BAYER PROCESS
EFFECT OF LIME ON ALKALI CONSUMPTION IN THE BAYER PROCESS, WHEN TREATING HYDRARGILLITE-BOEHMITE BAUXITES 67-02 M02-60566
DESILICONIZING CAPACITY OF LIME ON THE BASIS OF DATA ON THE NA2O-AL2O3-CAO-CO2-SIO2-H2O SYSTEM 67-02 M02-62049
KINETICS OF EXTRACTION OF AL2O3 FROM SINTER IN COUNTERFLOW LEACHING APPARATUS 67-02 M03-59192
METHOD OF JOINT PROCESSING OF NEPHELINE ROCKS AND KAOLINS TO PRODUCE ALUMINA 67-02 M03-61067
SOLUBILITY OF SODIUM HYDROALUMOSILICATE IN ALUMINATE SOLUTIONS 67-03 M03-65779
STUDY OF STRUCTURE IN RED MUD PULP OF ALUMINA PRODUCTION 67-04 M03-66969
EFFECT OF THE WASHING PROCESS ON THE SETTLING RATE OF RED MUDS FROM ALUMINA PRODUCTION 67-04 M03-67529
COMBINED PROCESSING OF ALUMOSILICATE SLAGS WITH NEPHELINE 67-05 M03-68229
SEPARATION OF HYDRATED CALCIUM ALUMINATES FROM ALKALINE ALUMINATE SOLUTIONS AND THEIR DECOMPOSITION 67-05 M03-69257
PURIFYING ALUMINATE SOLUTIONS OF PHOSPHORUS, VANADIUM AND FLUORIDE COMPOUNDS 67-05 M03-69534
METHOD OF LEACHING BAUXITES 67-06 M02-70933
METHOD OF PROCESSING HIGH-SILICA HYDRAGILLITE BAUXITES 67-06 M02-70940
STUDY OF THE CHEMICAL COMPOSITION AND STRUCTURE OF ALUMINOSODIUM SILICATES AND WAYS OF REDUCING SODIUM LOSSES IN THE BAYER PROCESS 67-06 M03-70915
METHOD OF PROCESSING HIGHLY FERRUGINOUS AND HIGHLY SILICIOUS BAUXITES 67-06 M03-70934
TESTING THE METHOD OF AUTOCLAVE-FREE DESILICATION OF ALUMINATE SOLUTIONS 67-06 M03-71307
HOW CHEMICAL COMPOSITION AND HEATING CONDITIONS AFFECT THE SINTER CAKE QUALITY OF NEPHELINE-LIMESTONE BATCHES 67-06 M03-71882
WASHING RED MUD FROM ALUMINATE SOLUTIONS 67-07 M02-73414
THE USE OF GRAY MUD AS A DESILICATION ADDITION 67-08 M03-76240
EFFECT OF MGO ON THE EXTRACTION OF AL2O3 FROM KAOLIN-LIMESTONE CAKES 67-09 M03-76584
INVESTIGATION OF THE EFFECT OF SOME FACTORS ON THE QUALITY OF PROCESSED ALUMINA 67-09 M03-76821
PROBLEMS OF BAUXITE TREATMENT 67-09 M03-77030
ON THE SILICIC ACID IN BAYER PROCESS 67-10 M02-79943
INFLUENCE OF CRYSTALLIZATION TEMPERATURE ON COMPOSITION AND SOME PROPERTIES OF SODIUM HYDROALUMOSILICATES 67-10 M03-79038
GO DIRECTLY TO ALUMINUM 67-12 M02-81896
CHEMICAL ENGINEERING OPERATIONS IN THE PRODUCTION OF ALUMINA 67-12 M02-83078
INVESTIGATION OF THE CHEMICAL COMPOSITION AND STRUCTURE OF SODIUM ALUMOSILICATES AND OF THE REDUCTION IN LOSSES OF CAUSTIC SODA IN THE BAYER PROCESS. PT. 4 67-12 M02-83320
BAYER PROCESS, AUTOMATION
APPARATUS FOR CONTROL OF ALUMINA PRODUCTION 67-02 M03-59193
BAYER PROCESS, HEAT EXCHANGE
THE RATIONAL UTILIZATION OF HEAT DURING PRODUCTION OF ALUMINA BY THE BAYER METHOD 67-08 M03-75208
BEAM COLUMNS
SEE BEAMS /STRUCTURAL/
COLUMNS /STRUCTURAL/
BEAMS /RADIATION/
SEE ELECTRON BEAMS
BEAMS /STRUCTURAL/
SEE ALSO BOX BEAMS
CANTILEVER BEAMS
I BEAMS
BEAMS /STRUCTURAL/, CORROSION
PREVENTION OF CORROSION FAILURES IN BRIDGE MEMBERS 67-04 M18-67074
BEAMS /STRUCTURAL/, MECHANICAL PROPERTIES
STRESS/RUPTURE PROPERTIES OF A LARGE CAST-IRON COMPONENT 67-05 M17-68429
BEAMS /STRUCTURAL/, METAL WORKING
CONTINUOUS SHOT PEENING CATERS FOR VARYING SECTIONS 67-09 M17-76557
BEAMS /STRUCTURAL/, ROLLING
UNIVERSAL BEAM AND SECTION MILL AT SHELTON IRON & STEEL LTD 67-04 M07-66325
A MODERN WIDE-FLANGE BEAM MILL 67-07 M07-73331
PRODUCTION OF A LIGHTENED NO. 60 H-BEAM 67-07 M07-73784
EFFECT OF THE GEOMETRIC FORM OF THE OBLIQUE-POSITIONED PASS ON STRIP STABILITY DURING ROLLING 67-07 M07-73786
MANUFACTURING LIGHTENED I-BEAMS 67-09 M07-76547
INFLUENCE OF GEOMETRY OF DIAGONAL ROLL PASS ON STEADINESS OF STRIP IN WORK 67-09 M07-76549
BEAMS /STRUCTURAL/, SURFACE FINISHING
SHOT-PEENING AIDS FATIGUE LIFE 67-06 M17-71929
BEAMS /STRUCTURAL/, WELDING
AUTOMATIC WELDING OF OKH13 STEEL IN CO2 67-06 M11-71850
DOUBLE ARC WELDING A SEMITRAILER BEAM 67-08 M11-75410
THE AUTOMATIC CO2 WELDING OF GRADE OKH13 STEEL 67-11 M11-80882
THE TWIN ARC WELDING OF OPEN TOP WAGON SOLE BARS 67-12 M11-82031
BEARING ALLOYS
SUBSTITUTE ALLOYS AS BEARING MATERIALS 67-05 M20-68494
BEARING ALLOYS, AEROSPACE
BEARING MATERIALS--A LOOK AT THE FUTURE 67-02 M20-60243
BEARING ALLOYS, CHEMICAL ANALYSIS
BEHAVIOR OF NITROGEN IN SLAGS AND IN THE METAL DURING MELTING OF ALLOY STEELS 67-02 M04-59878
THE CHEMICAL NATURE OF NONMETALLIC INCLUSIONS AND POSSIBLE METHODS OF THEIR DETERMINATION 67-07 M13-73191
EXTERNAL CHARACTERISTICS OF NONMETALLIC INCLUSIONS AND POSSIBLE METHODS OF THEIR DETERMINATION 67-07 M13-73192
SELECTION AND EVALUATION OF STEEL WITH DIFFERENT INCLUSION CHARACTERISTICS 67-07 M13-73193
BEARING ALLOYS, CLADDING
ROLLING OF BIMETAL STEEL--AL-SB-MG ALLOY WITH ALUMINUM INTERLAYER 67-02 M12-59197
BEARING ALLOYS, COATINGS
BRONZE COATED LINK PINS--MANDREL MECHANISM MADE STRONGER WITHOUT SACRIFICING EXPANSION RANGE 67-04 M12-67793
BEARING ALLOYS, DEFORMATION
EFFECT OF HEAT TREATMENT ON DEFORMATION AND DIMENSIONAL STABILITY OF 14109 BEARING STEEL

67-02 M10-58985

BEARING ALLOYS, HEAT TREATMENT
HEAT TREATMENT OF BAR STEEL AT ACIERIES DU TEMPLE
67-05 M10-69346
TORRINGTONS HEAT TREATMENT PLANT AT DARLINGTON. EFCO LAYOUT AND EQUIPMENT 67-06 M10-70881

BEARING ALLOYS, MACHINING
DIAMOND DRESSING IN THE PRODUCTION OF TAPERED ROLLER BEARINGS 67-01 M08-58786
PERFORMANCE TEST FOR SURFACE GRINDING WHEELS. PT. 3. GRINDING OF STAINLESS STEELS
67-08 M08-75591

BEARING ALLOYS, MECHANICAL PROPERTIES
THE STUDY OF THERMAL FATIGUE OF BEARING METALS LINING ON STEEL PLATES 67-01 M17-57588
STEPPING UP THE FIGHT AGAINST FRACTURE AND FATIGUE
67-01 M17-58485
STUDY OF MATERIAL FOR UNLUBRICATED ROLLING PARTS FOR HIGH-TEMPERATURE SERVICE 67-02 M17-61998
ALUMINIUM-TIN ALLOY AS A BEARING MATERIAL FOR MACHINE TOOL APPLICATION 67-02 M20-61565
EVALUATION OF THE BEHAVIOR OF STEELS AND ALLOYS DURING HOT DEFORMATION WITH THE AID OF HOT TORSION SPECIMENS 67-04 M17-67202
EFFECT OF ALUMINUM ON THE CHANGE IN HARDNESS OF CALCIUM BABBIT 67-06 M17-70171
PROPERTIES OF BKA BABBIT AT ELEVATED TESTING TEMPERATURES 67-06 M17-70176
GUIDE TO SELECTION OF MATERIALS FOR BUSHINGS AND THRUST BEARINGS 67-06 M17-70724
TESTING THE MECHANICAL PROPERTIES OF HARDENED STEELS BY THE STATIC BENDING TEST
67-07 M17-72478
THE EFFECT OF NONMETALLIC INCLUSIONS ON CERTAIN MATERIAL PROPERTIES OF STEEL 67-07 M17-73194
ALZEN 305 WHITE BRONZE--AN ECONOMICAL BEARING MATERIAL 67-10 M01-79490
NEW ALLOYS FOR HEAVILY LOADED SLIDING FRICTION BEARINGS 67-10 M17-78951
THE MECHANICAL PROPERTIES OF ANTIFRICTION ALUMINUM ALLOYS RUDNITSKII N M 67-10 M17-78957
FATIGUE STRENGTH OF BEARING METAL LINING ON STEEL PLATES IN LUBRICATING OIL 67-10 M17-79879
THE RANGE OF RATIONAL APPLICATION OF POLYMERS AS ANTIFRICTION MATERIALS AND THE MECHANISM OF THEIR SELF-LUBRICATING ACTION
67-12 M17-82194

BEARING ALLOYS, MELTING
EXPERIENCE OF A NEW TECHNOLOGY FOR REMELTING BALL-BEARING STEEL 67-07 M04-74140
ERECTION AND START UP OF A VACUUM STEEL WORKS FOR PRODUCTION OF HIGH-QUALITY STEEL AT FREITAL
67-09 M04-77215
THE AUSTENITIC GRAIN GROWTH OF SPECIALLY REMELTED STEELS UNDER CERTAIN CONSIDERATIONS OF GROWTH INHIBITING INFLUENCES 67-09 M14-77227
THE INFLUENCE OF ELECTROSLAG REMELTING ON THE QUALITY OF ROLLER BEARING STEEL
67-11 M04-80210
IMPROVING STEEL QUALITY THROUGH VACUUM ELECTRIC ARC MELTING AND THROUGH ELECTROSLAG REMELTING
67-11 M04-80211

BEARING ALLOYS, MICROSTRUCTURE
CARBIDE NETWORKS ON ROLLER BEARING STEEL AND MEASURES FOR COMBATING THEM 67-07 M14-74147

BEARING ALLOYS, PHASES /STATE OF MATTER/
TEXTURE STUDY OF THE ALPHA-TO-GAMMA TRANSFORMATION
67-05 M14-68249

BEARING ALLOYS, PHYSICAL PROPERTIES
HIGH-TEMPERATURE BEARING MATERIALS
67-07 M20-74055

BEARING ALLOYS, POWDER METALLURGY
TIN AGAINST FRICTION AND WEAR 67-12 M20-81733

BEARING ALLOYS, REFINING
THE ELECTROSLAG REFINING PROCESS
67-01 M04-57975
VACUUM TREATMENT OF BALL-BEARING STEEL PRODUCED WITHOUT FERROSILICON ADDITION
67-07 M04-73006

BEARING ALLOYS, STEEL MAKING
STANDARDS FOR CONTINUOUS CASTING OF BEARING STEELS. PT. 1. CONTINUOUS CASTING OF BALL AND ROLLER BEARING STEEL 67-05 M04-68730
THE MECHANISM OF THE RIMMING OF METAL DURING THE VACUUM TREATMENT OF BALL BEARING STEEL IN THE LADLE 67-06 M04-70271
SMELTING BEARING STEEL IN AN ACID OPENHEARTH FURNACE 67-10 M04-79850

BEARING ALLOYS, WEAR
WEAR OF METALS IN SUCROSE SOLUTIONS
67-09 M17-76438

BEARING METALS
SEE ALSO BEARING ALLOYS

BEARING METALS, POWDER METALLURGY
MANUFACTURE OF BRONZE-GRAPHITE STRIPS BY POWDER ROLLING 67-07 M09-72502

BEARINGS
SEE ALSO ANTIFRICTION BEARINGS
BALL BEARINGS
GAS BEARINGS
JOURNAL BEARINGS
ROLLER BEARINGS
SLEEVE BEARINGS
TAPER ROLLER BEARINGS
BEARING MATERIALS--A LOOK AT THE FUTURE
67-02 M20-60243
REGULARITIES OF STRUCTURE FORMATION DURING THE SINTERING OF IRON-GRAPHITE COMPOSITIONS
67-04 M09-67337
MAGNESIUM DIE CAST COMPONENTS IN OFFICE MACHINES
67-07 M06-74001
BEARINGS, TOOLING, INSTRUMENTS AND OTHER MECHANICAL APPLICATIONS 67-08 M20-74833
CARBON AND GRAPHITE MATERIALS FOR SEALS, BEARINGS, AND BRUSHES 67-09 M20-77136
INVESTIGATION OF AIR LUBRICATED BEARINGS FOR HIGH LOADS 67-12 M20-82772

BEARINGS, CASTING
CONTINUOUS CASTING OF SLEEVES ON A HORIZONTAL MACHINE 67-05 M06-69539
MECHANIZATION AND AUTOMATION OF CASTING INTO ALUMINUM ANODIZED CHILL MOLDS
67-12 M06-82614

BEARINGS, COATING
BUILDUP OF BABBITT LINING DURING REPAIR OF LARGE BEARINGS 67-02 M12-61274
METHODS OF LARGE BEARINGS BY SURFACING THE WHITE METAL LINING 67-05 M12-68274
THE USE OF SPRAY COATING WITH ALUMINUM-COPPER PSEUDOALLOYS FOR SLIDING FRICTION BEARINGS
67-10 M12-78370
MYRIAD NEW SURFACE ALLOYS VIA ELECTROLYSIS
67-11 M12-80790

BEARINGS, CORROSION
ELECTROCHEMICAL CORROSION OF WHITE-METAL BEARINGS
67-11 M18-81247
EFFECT OF ELECTRICAL CURRENTS ON BALL BEARING DAMAGE IN VACUUM AND IN AIR 67-12 M18-82990

BEARINGS, FRICTION
DEPENDENCE OF THE COEFFICIENT OF FRICTION AND WEAR RESISTANCE OF COPPER-BEARING MODIFIED CAST IRONS ON MECHANICAL PROPERTIES 67-06 M17-70729

BEARINGS, JOINING
COUPLING OF SINTERED BEARINGS 67-10 M11-79351

BEARINGS, MACHINING
INVESTIGATION OF CERMET STABILITY DURING CUTTING OF POROUS IRON 67-02 M09-59614
INVESTIGATION OF THE CUTTABILITY OF BRONZE-GRAPHITE COMPOSITES 67-08 M17-75438
QUALITY OF MACHINED SURFACE OF POROUS BRONZE-GRAPHITE COMPOSITE 67-10 M08-79348

BEARINGS, MATERIALS
INVESTIGATION OF FERROUS ANTIFRICTION POWDER COMPOSITES 67-02 M09-59678
HIGH-TEMPERATURE BEARING MATERIALS
67-03 M20-65811
ANTIFRICTION AND MECHANICAL PROPERTIES OF TAVEN, A NEW ANTIFRICTION CAST IRON 67-07 M17-73033

BEARINGS, MECHANICAL PROPERTIES
WEAR RESISTANCE AND FRICTION OF QUENCHED AUSTENITIC MANGANESE-CONTAINING CAST IRON
67-04 M17-66455
PREDICTION OF BALL-SPIN AND INTERFACIAL SLIP FRICTION FROM ROOM TO 2500 F 67-05 M17-68943
TEMPERATURE AND FRICTIONAL COEFFICIENT AT HIGH RATES OF SLIP 67-06 M17-71367
WIRE-WOOL TYPE BEARING FAILURES..THE FORMATION OF THE WIRE WOOL 67-08 M17-74798
DEVICE AND METHOD FOR INVESTIGATION OF THE ANTIFRICTION PROPERTIES OF SOLID LUBRICANTS
67-08 M17-75439
SILVER BEARINGS 67-08 M20-75636
SHAFT CURRENTS AS CAUSES OF BEARING FAILURE
67-10 M17-78901
INFLUENCE OF SULFIDIZING ON FRICTION AND WEAR OF IRON-GRAPHITE MATERIALS 67-11 M17-80588
RESISTANCE TO WEAR AND RUNNING IN OF TEMPERED AUSTENITIC MANGANESE CAST IRON

BEARINGS
67-11 M17-80996
ANALYSIS OF TAPERED ROLLER BEARING DAMAGE
67-11 M17-81125
PREDICTING BEARING PERFORMANCE 67-11 M20-81366
THE PROPERTIES OF SOME SUBSTITUTE BEARING ALLOYS
67-12 M01-82890
THE RANGE OF RATIONAL APPLICATION OF POLYMERS AS ANTIFRICTION MATERIALS AND THE MECHANISM OF THEIR SELF-LUBRICATING ACTION
67-12 M17-82194
A STUDY OF THE ANTIFRICTION PROPERTIES OF COMPOSITE METAL/POLYMER MATERIALS IN A VACUUM AND IN CERTAIN GAS ATMOSPHERES 67-12 M17-82195
HOW VACUUMING AFFECTS THE QUALITY OF BALL BEARING STEEL 67-12 M17-83456
BEARINGS, MELTING
MODIFICATION OF THE PURITY LEVEL OF ROLLER BEARING STEEL THROUGH REMELTING AND SPECIAL METHODS
67-09 M04-77226
BEARINGS, NONDESTRUCTIVE TESTING
INDUCTIVE METHOD FOR THE CONTROL OF POWDER COMPOSITE PRODUCTS 67-08 M19-74919
NONDESTRUCTIVE TESTING OF COMPOSITE PARTS
67-12 M19-81935
BEARINGS, OXIDATION
INVESTIGATION OF THE CHEMICAL STABILITY OF SOLID LUBRICANTS AT HIGH TEMPERATURES. PT. 1
67-06 M18-70770
BEARINGS, PHYSICAL PROPERTIES
PROCESS KINETICS OF OIL FILTRATION THROUGH PORES OF ANTIFRICTION POWDER COMPOSITES
67-08 M09-74917
BEARINGS, POWDER METALLURGY
ANTIFRICTION PROPERTIES OF IRON-BASE POWDERED-METAL MATERIALS 67-01 M09-57668
EFFECT OF THE CERMET GEOMETRICAL FACTOR ON THE VALUE OF ELASTIC AFTERACTION 67-02 M09-59603
A SINTERED BEARING WITH A PLASTICS COATING AND A COMPENSATING RESERVOIR 67-02 M09-62208
MANUFACTURING PROCESS OF POWDERED-METAL ARTICLES
67-05 M09-69058
STRUCTURE AND PROPERTIES OF IRON-GRAPHITE SINTERED MATERIALS ALLOYED WITH NICKEL AND PHOSPHORUS
67-06 M09-72326
METAL-PLASTIC ANTIFRICTION MATERIALS FOR MANUFACTURING OF SALT-TYPE BEARINGS FOR LUBRICANT-FREE FRICTION 67-07 M09-72504
POWDER METALLURGY PARTS IN AUTOMOBILE MANUFACTURING
67-08 M09-74318
FRICTION BEARINGS WITH POWDER COMPOSITE ELEMENTS
67-08 M09-74918
PROCESSES OF MANUFACTURING ANISOTROPIC POWDER COMPOSITES AND DEVELOPMENT OF PRODUCTION PLANS
67-08 M09-75451
PRODUCTION OF HIGH-STRENGTH PRODUCTS FROM PIG IRON POWDER 67-08 M09-75453
AUTOMATED LINE FOR THE PRODUCTION OF POWDER COMPOSITE BILLETS OF VALVE GUIDE SOCKETS
67-08 M09-75468
TECHNIQUES AND ORGANIZATION OF THE EXPERIMENTAL PRODUCTION OF METAL-PLASTIC ANTIFRICTION STRIP FOR COMPONENTS OPERATED UNDER CONDITIONS OF DRY FRICTION 67-08 M09-75473
EXPERIENCE WITH THE PRODUCTION OF BRONZE-GRAPHITE STRIP BY POWDER ROLLING 67-11 M09-80888
A METAL-PLASTIC ANTIFRICTION MATERIAL FOR THE MANUFACTURE OF COMPOSITE BUSHINGS OPERATING UNDER DRY FRICTION CONDITIONS
67-11 M09-80890
ANTIFRICTION IRON-BASE POWDER METALLURGY PARTS FOR HEAVY DUTY PERFORMANCE 67-12 M09-83558
DEFORMATION EFFECTS ON THE CHANGING PROPERTIES OF POROUS MATERIALS 67-12 M09-83562
BEARINGS, SIZING
INVESTIGATION OF THE EFFECT OF THE SIZING ALLOWANCE ON THE SURFACE QUALITY OF FERROGRAPHITE BUSHINGS
67-06 M19-70965
BEARINGS, SURFACE PROPERTIES
RESEARCH IN THE FIELD OF OIL-IMPREGNATED, POROUS BRONZE BEARINGS 67-04 M20-67211
INFLUENCE OF CUTTING ON SURFACE QUALITY OF ANTIFRICTION COMPOSITE MATERIALS
67-05 M09-69016
LUBRICANT LIFE TESTS ON BALL BEARINGS FOR SPACE APPLICATIONS 67-05 M17-68942
ANTIFRICTION PROPERTIES OF SOME STRUCTURAL MATERIALS 67-05 M17-69015
BEARINGS, WEAR
THE RELATIONSHIP BETWEEN BASIC MODES OF WEAR AND EXPERIENCE IN ENGINEERING PRACTICE
67-04 M17-66292
STUDY OF ATOMIC SEPARATION OF COPPER IN THE ELECTROLYTIC CHROMIUM-BRONZE COUPLE
67-06 M17-70377
SOME CAUSES OF INTENSIVE WEAR OF IRON-GRAPHITE BEARINGS UNDER INCREASED LOADS
67-08 M17-74911
WEAR RESISTANCE OF SINTERED INSERTS FOR BALL PINS OF AN AUTOMOBILE STEERING SYSTEM
67-08 M17-75431
MOS2 IN BEARINGS 67-10 M20-78457
BEDS, MICROSTRUCTURE
PROBLEMS OF STRESS-RELIEF TEMPERING OF GRAY IRON MACHINE TOOL BEDS 67-05 M10-69348
BEEHIVE KILNS
SEE KILNS
BEESWAX
SEE WAXES
BELL FURNACES
CZECHOSLOVAK INDUSTRIAL FUEL FURNACES
67-02 M06-60918
SINGLE-BELL BLAST-FURNACE CHARGING GEAR
67-04 M04-67683
INVESTIGATION OF AN O-SHAPED RADIANT TUBE FOR BELL FURNACES 67-05 M10-68560
RESEARCH INTO AN O-SHAPED RADIANT TUBE FOR BELL-TYPE FURNACES 67-07 M10-72471
THE HEATING AND COOLING OF OPEN COILS IN SINGLE-PILE BELL FURNACES 67-09 M10-77346
BELL FURNACES, DESIGN
EXPERIENCES WITH OIL-FIRED BELL-TYPE ANNEALING FURNACES 67-07 M10-72564
BELLOWS, CORROSION
STEAM-METHANE REFORMING PROBLEMS--STRESS CORROSION CRACKING IN PRIMARY CONVERSION
67-06 M18-72337
BELLOWS, FORMING
BIG METAL BELLOWS DUCTS FEED SATURNS S-1C BOOSTER
67-08 M20-74733
BELLOWS, MATERIALS
AN IRON BASE ALLOY 67-02 M17-59663
BELLOWS, MECHANICAL PROPERTIES
FATIGUE STRENGTH UNDER AXIAL LOADING. PT. 5. STRENGTH OF U-SHAPED BELLOWS 67-12 M17-82829
BELLOWS, WELDING
A DEVICE FOR WELDING METAL BELLOWS
67-02 M11-60191
IMPROVING THE ROLL WELDING OF BELLOWS
67-07 M11-72742
INCREASING THE RELIABILITY OF SEAM WELDED BELLOW JOINTS 67-12 M11-82321
BELLS
A SINGLE-BELL CHARGING APPARATUS FOR BLAST FURNACES
67-02 M04-61864
SINGLE-BELL BLAST-FURNACE CHARGING GEAR
67-04 M04-67683
THE GAS PERMEABILITY OF PELLETS IN THE BLAST FURNACE 67-06 M04-72294
TEMPERATURE DISTRIBUTION IN B-G-BELL HOPPER OF A BLAST FURNACE 67-12 M04-83417
BELLS, COATING
INVESTIGATION OF THE JET-STREAM WEAR IN BUILT-UP METAL 67-04 M17-66569
BELLS, TEMPERATURE CONTROL
TEMPERATURE FIELD OF THE LARGE BELL CUP OF THE BLAST FURNACE 67-10 M04-78419
BELLS, WEAR
TRANSVERSE VIBRATIONS OF THE LARGE BELL OF THE BLAST FURNACE CHARGING APPARATUS
67-06 M04-71241
BELLS, WELDING
PERFORMANCE OF HARD SURFACED BELLS OF BLAST FURNACES 67-09 M11-78127
BELT CONVEYORS
STAINLESS STEEL FOURDRINIER WIRE
67-01 M20-58765
BELT GRINDING
ABRASIVE BELTS AND THEIR USE. PT. 2
67-03 M08-65042
DIAMOND BELTS GRIND CARBIDES, EXOTICS
67-04 M08-68149
BELT GRINDING EFFICIENCY 67-07 M08-72796
BEND DUCTILITY
SOME PROPERTIES OF FLOATING ZONE MELTED MO, W AND TA. PT. 7. THE ELECTRON BEAM MELTING OF REFRACTORY METALS 67-05 M17-69856
BEND DUCTILITY, RADIATION EFFECTS
THE USE OF SPHERICAL UO2 IN A CERMET FUEL PLATE

67-06 M16-71053

BEND PROPERTIES
SEE ALSO BEND DUCTILITY
BEND STRENGTH
BENDING MODULUS
EFFECT OF MANUFACTURING CONDITIONS ON THE APPLICABILITY OF ZINC-COATED STEEL WIRE 67-08 M12-75394
THE MECHANISM OF FORMING IN BENDING 67-12 M17-82776

BEND PROPERTIES, ALLOYING EFFECTS
MECHANICAL PROPERTIES OF NIOBIUM-HYDROGEN ALLOYS 67-09 M17-78221

BEND PROPERTIES, COMPOSITION EFFECTS
EFFECT OF RATIO OF REDUCTION BY ROLLING ON THE MECHANICAL PROPERTIES OF STEEL PLATE PRODUCED FROM CONTINUOUS-CAST SECTIONS 67-07 M17-72555

BEND STRENGTH
STRENGTH OF SURFACE LAYERS OF BEAMS UNDER BENDING 67-02 M17-58810
INVESTIGATION ON THE FATIGUE BENDING STRENGTH OF A LATERALLY LOADED STEEL ROPE WIRE 67-02 M17-59706
INVESTIGATION OF THE STRENGTH OF TITANIUM ALLOYS BY THE BENDING METHOD AT 600 C 67-02 M17-59783
INVESTIGATION OF THE POSSIBILITY OF USING TITANIUM ALLOYS FOR SURGICAL INSTRUMENTS AND APPARATUS AND METHODS FOR JOINING TISSUES 67-02 M17-59900
INVESTIGATION OF THE CONDITIONS OF THE FORMATION OF HARD ALLOYS WITH AN UNEVEN DISTRIBUTION OF THE CARBIDE PHASE. PT. 1 67-04 M09-67339
STRESS MEASUREMENTS DURING THE OXIDATION OF TANTALUM AND NIOBIUM 67-04 M17-66067
STRENGTH CHARACTERISTICS OF POROUS MATERIALS OF REFRACTORY COMPOUNDS 67-04 M17-67343
INVESTIGATION OF R12 STEEL 67-04 M17-67962
THE MECHANICAL PROPERTIES OF CARBONITRIDED STEELS. PT. 1. BENDING STRENGTH AND TOUGHNESS OF CARBONITRIDED STEELS WITH HIGH CORE STRENGTHS 67-07 M17-73186
ON THE CHANGES OF SOME PROPERTIES OF STEEL DURING ALTERNATING STRESSES 67-07 M17-73708
THE DEFORMATION OF WROUGHT BERYLLIUM 67-07 M17-73763
MECHANICAL PROPERTIES OF CARBONITRIDED STEELS. PT. 2. THE FATIGUE STRENGTH OF CARBONITRIDED STEELS--THE RELATIONSHIP BETWEEN RESIDUAL AUSTENITE CONTENT IN CARBONITRIDED LAYERS AND FATIGUE STRENGTH 67-07 M17-74210
EFFECT OF ALTERNATE BENDS ON COPPER WHISKERS 67-08 M14-76228
THE BEND STRENGTH OF HARDENABLE STRUCTURAL STEELS DURING DELAYED BREAKDOWN 67-10 M17-78980
BENDING WITHOUT BREAKING 67-10 M17-79184
CREEP AND FATIGUE STRENGTH OF QUENCHED AND TEMPERED TYPE M-2 AND TYPE H-13 STEELS IN TEMPERATURE RANGE OF 300 TO 550 C 67-10 M17-79994
INFLUENCE OF THE MELTING PROCESS ON THE NOTCH TOUGHNESS OF 100 CR 6 STEEL 67-11 M17-80217
METALLURGICAL RECULIARITIES IN THE REMELTING OF HIGH-SPEED STEEL S 6-5-2 IN THE MULTIPLE-CHAMBERED ELECTRON BEAM FURNACE, EMO 200 67-11 M17-80220
FUNDAMENTAL PROPERTIES OF HIGH STRENGTH STEELS 67-12 M20-82922

BEND STRENGTH, ALLOYING EFFECTS
CASTINGS FROM NONMAGNETIC IRON CONTAINING 2 PER CENT NI 67-04 M15-66414

BEND STRENGTH, HEATING EFFECTS
REVERSE BENDING FATIGUE STRENGTH OF ALLOYED QUENCHED AND HARDENED STEELS AFTER INDUCTIVE SURFACE HARDENING 67-11 M17-80102
EFFECT OF HEAT TREATING CONDITIONS ON THE PROPERTIES OF SINTERED IRON MATERIALS. PT. 1. THE EFFECT OF HARDENING AND CASE-HARDENING TEMPERATURES ON SOME PROPERTIES OF VARIOUS SINTERED IRON MATERIALS 67-12 M09-82840
STRENGTH AND WORK-HARDENING BEHAVIOR OF THE 100CR6 TOOL STEEL AS A FUNCTION OF HEAT TREATMENT 67-12 M17-82839

BEND STRENGTH, STRESS EFFECTS
THE BENDING AND RESIDUAL STRESSES OF STRIPS 67-06 M17-70587
MECHANICAL AND ELECTRICAL PROPERTIES OF BERYLLIUM WIRE 67-07 M17-73755

BEND STRENGTH, TEMPERATURE EFFECTS
HIGH TEMPERATURE STRENGTH AND DELAYED FRACTURE IN CERAMIC MATERIALS 67-06 M17-70542

BEND TESTS
THE BEHAVIOUR OF STEEL TUBES FITTED WITH APERTURES AND SUBJECTED TO BENDING AND TORSION 67-01 M17-57204
ON THE YIELD POINTS OF MILD STEEL BEAMS UNDER UNIFORM BENDING 67-02 M17-58804
APPARATUS FOR TESTING WELDED JOINTS IN TUBULAR SPECIMENS 67-02 M17-59799
THE TESTING OF IMPROVED NAILS 67-02 M17-60626
RELATIONSHIP BETWEEN THE TORSION OR BENDING CREEP STRENGTH AND THE TENSION CREEP STRENGTH OF 13 PER CENT CR STEEL 67-04 M17-66894
X-RAY INVESTIGATION ON THE DEFORMATION AND FATIGUE FRACTURE OF SPRING STEEL IN PLANE BENDING 67-05 M17-68465
NOTCH BRITTLENESS IN MILD STEEL AT -196 C 67-06 M17-71331
EFFECT OF NOTCH DEPTH ON FRACTURE OF MILD STEEL SPECIMENS AFTER GENERAL YIELD 67-06 M17-71332
TESTING THE MECHANICAL PROPERTIES OF HARDENED STEELS BY THE STATIC BENDING TEST 67-07 M17-72478
FATIGUE BEHAVIOR UNDER ALTERNATING STRESSES OF MOLDED CARBON POWDER MATERIALS 67-07 M17-72480
ON STRESS INTENSIFICATIONS IN SPECIMENS OF CHARPY GEOMETRY PRIOR TO GENERAL YIELD 67-07 M17-72881
DEFORMATION PHENOMENA AND CRACK FORMATION IN ROUND SPECIMENS OF A HARDENED CR-MO STEEL IN ROTATING BENDING FATIGUE TESTING 67-09 M17-77086
BENDING FATIGUE STRENGTH OF GEARS UNDER VARIOUS LOADING CONDITIONS 67-09 M17-77577
RECOMMENDED A. S. T. M. PRACTICE FOR PLANE-STRAIN FRACTURE TOUGHNESS TESTING OF HIGH STRENGTH METALLIC MATERIALS USING A FATIGUE-CRACKED BEND SPECIMEN 67-11 M17-81467
FAILURE ENERGY OF STEELS IN DYNAMIC BENDING 67-12 M17-81717

BENDABILITY
SEE FORMABILITY

BENDERS
SEE BENDING MACHINES

BENDING
SEE ALSO BRAKE FORMING
BUCKLING
DRAW BENDING
FOLDING
METAL BENDING
ROLL BENDING
STRETCH WRAPPING
HEAVY I-BEAMS TAKE CURVES EASILY 67-01 M07-58486
HOW TO BEND TITANIUM TUBING 67-02 M08-59033
PERMEABLE SHEET METAL AND METHOD OF MAKING SAME 67-02 M08-60938
INVESTIGATION OF KH18N10T STAINLESS STEEL TUBES BENT BY INDUCTION HEATING 67-04 M08-66592
PRODUCTION TUBE BENDING 67-06 M07-70595
A CONTRIBUTION TO HEAVY PLATE BENDING 67-06 M07-72031
DEFORMATION AND FORMING OF BERYLLIUM AT ROOM TEMPERATURE UNDER PRESSURE 67-07 M07-73754
BENDING THIN-WALLED TUBES WITHOUT A MANDREL 67-07 M08-73954
FORMING BAR, TUBE, SHAPES AND WIRE 67-08 M08-74844
THEORETICAL DETERMINATION OF DIE FORCE IN BENDING OF SHEET METAL IN U-SHAPED DIES 67-09 M08-77941
TOOLING AND PRODUCTION ON HORIZONTAL MULTISLIDE MACHINES 67-10 M08-78599
THE ART OF SHAPING STAINLESS TUBING 67-11 M08-81199

BENDING MACHINES
SEE ALSO ROLL BENDERS
IS TUBE BENDING YOUR PROBLEM 67-02 M07-61643
PRODUCTION TUBE BENDING 67-06 M07-70595
BENDING THIN-WALLED TUBES WITHOUT A MANDREL 67-07 M08-73954

BENDING MODULUS
DETERMINATION OF THE BENDING MOMENT DURING ROLL FORMING OF SKELP FOR ELECTRICALLY LINE WELDED LARGE-DIAMETER PIPES 67-06 M08-70748

BENDING MODULUS, STRESS EFFECTS

BENDING MODULUS
THE BENDING AND RESIDUAL STRESSES OF STRIPS 67-06 M17-70587
BENDING STRENGTH
SEE BEND STRENGTH
BENDING TESTS
SEE BEND TESTS
BENEFICIATION
BENEFICIATION OF SIDERITE SANDS BY FLOTATION 67-01 M02-57155
CYANIDE-FREE FLOTATION OF COPPER-ZINC ORES 67-01 M02-57267
DIRECT DETERMINATION OF SULFIDIC MOLYBDENUM IN FLOTATION TAILINGS 67-01 M02-57301
ON THE COMPLEX TREATMENT OF ALKALINE ALUMINATES AND ALUMOSILICATES BY A CARBOTHERMAL METHOD 67-01 M02-57304
SOME DATA ON ORE FLOTATION IN AN EJECTOR FLOTATION MACHINE 67-01 M02-58037
CLASSIFICATION OF SINTER MATERIALS 67-01 M02-58594
DEVELOPMENT AND DESIGN OF THE MISSION UNIT BY-PRODUCTS PLANT 67-01 M02-58695
TREATMENT OF AURIFEROUS SULFIDE ORE FROM THE ENTERPRISE GOLD MINE PINE CREEK, N.T. 67-01 M03-57236
PILOT PLANT PRODUCTION OF NUCLEAR GRADE ZIRCONIUM SPONGE FROM INDIAN ZIRCON 67-01 M03-57490
TECHNOLOGY OF GOLD RECOVERY FROM CARBONACEOUS GOLD-ARSENIC CONCENTRATES 67-01 M03-58195
USE OF MANGANESE IN THE UKRAINIAN IRON AND STEEL INDUSTRY 67-01 M04-58288
METHOD FOR THE BENEFICIATION OF SLURRIES OF RARE, NONFERROUS AND PRECIOUS METAL ORES 67-02 M02-58886
AGGLOMERATION, REOXIDATION AND ABNORMAL PHENOMENA IN THE KILN 67-02 M02-59151
FLOTATION BENEFICIATION OF SLURRIES FROM NICKEL ELECTROLYSIS 67-02 M02-59190
METHOD FOR SINTERING SULFIDE-MAGNETITE ORES AND CONCENTRATES 67-02 M02-59533
TECHNIQUES FOR THE AGGLOMERATION OF CHROMITE ORES AND CONCENTRATES 67-02 M02-59537
BEHAVIOR OF SELENIUM DURING ROASTING GAISK CONCENTRATES 67-02 M02-59538
INDUSTRIAL TESTS OF THE BENEFICIATION OF MOLYBDENUM-WOLFRAM ORE FROM THE MIKHAILOVGRADSKO PEREKOP DEPOSIT 67-02 M02-59544
EFFECT OF LOW-MOLECULAR WEIGHT ALIPHATIC ACIDS IN FLOTATION OF CASSITERITE, TANTALITE AND GARNET 67-02 M02-59545
CHEMICAL BENEFICIATION OF TANTALUM NIOBIUM IRON PRODUCTS USING HYDROCHLORIC ACID 67-02 M02-59546
FLOTATION OF CASSITERITE AND WOLFRAMITE FROM SLURRIES OF GRAVITY BENEFICIATION 67-02 M02-59547
REACTION OF CALCIUM, MAGNESIUM AND LEAD MOLYBDATES WITH A SODIUM CARBONATE SOLUTION 67-02 M02-59549
SEMI-INDUSTRIAL TESTS OF TECHNIQUES FOR THE SELECTIVE CHLORINATION OF CHROMIUM ORES 67-02 M02-59565
LABORATORY TESTS OF WOOD RESIN OIL USED FOR FLOTATION OF OXIDE AND MIXED LEAD-ZINC ORES AND MINERALS OF ENVELOPING ROCKS 67-02 M02-59639
INDUSTRIAL TECHNOLOGY FOR ROASTING AND MAGNETIC BENEFICIATION OF KERCH TOBACCO ORES 67-02 M02-59697
THE CONCENTRATION AND PELLETIZING OF TACONITE. PT. 1 67-02 M02-61117
DEPRESSION OF SULFIDIC MINERALS BY PRODUCTS OF THE INTERACTION OF ZNSO4 AND NA2CO3 67-02 M02-61540
A HYDROCHEMICAL METHOD OF REPROCESSING ALUMINA-BEARING RAW MATERIALS 67-02 M02-61546
FACTORS INFLUENCING THE APPLICATION OF BACTERIAL LEACHING TO A CANADIAN URANIUM ORE 67-02 M02-61585
PRODUCTION OF CESIUM SALTS 67-02 M02-61588
TESTING A METHOD OF GRANULATING SULFIDIC CHARGES WITH LIMESTONE AND SULFURIC ACID 67-02 M02-61610
SPHALERITE DEPRESSION IN PYRITIC CONCENTRATES 67-02 M02-61699
INVESTIGATION OF THE FLOTATION BEHAVIOR OF TUNGSTEN MINERALS WITH SPECIAL CONSIDERATION OF GRAIN SIZE 67-02 M02-62249
SEMIPILOT PLANT RESEARCH ON PRODUCTION OF COPPER POWDER 67-02 M03-58934
MAGNETIC SEPARATION OF NICKEL FROM NICKEL CONTAINING IRON ORE, TREATED BY SULFIDIZING AND REDUCING ROASTING 67-02 M03-58937
HYDROMETALLURGICAL PROCESSING OF INTERMEDIATE PRODUCTS OF BENEFICIATION OF UDOKAN COPPER ORES 67-02 M03-59541
PROBLEMS OF EXTRACTING MANGANESE USING RECENTLY PUBLISHED DATA 67-02 M03-59585
PROBLEMS OF BENEFICIATION OF CARBONACEOUS AURIFEROUS ORES 67-02 M03-59598
AURIFEROUS ORES OF THE EASTERN SAYAN DEPOSITS AND THEIR REPROCESSING 67-02 M03-59600
ELECTROLYTIC METHODS FOR PRODUCING TITANIUM AND TITANIUM ALLOYS 67-02 M03-60229
HYDROMETALLURGICAL SEPARATION OF METALLIZED COPPER-NICKEL CONVERTER MATTE 67-02 M03-60565
RECENT DEVELOPMENTS IN SOLVENT EXTRACTION TECHNOLOGY 67-02 M03-61586
CESIUM EXTRACTIVE METALLURGY--ORE TO METAL. PT. 3 67-02 M03-61587
CLIMAX DEDICATES ACID LEACH-CHARCOAL ADSORPTION PROCESS FOR MOLY OXIDE ORES 67-03 M02-65107
NEW WAY TO WIN MOLY 67-03 M02-65115
THE FLOATABILITY OF FINE-GRAINED HEMATITE 67-03 M02-65203
THE CONCENTRATION AND PELLETIZING OF TACONITE. PT. 2 67-03 M02-65412
STUDY OF THE INTERACTION OF CATION COLLECTORS WITH BE2SIO4 67-03 M02-65572
STUDY OF THE FLOTATION PROPERTIES OF CASSITERITE, WOLFRAMITE, ILMENITE AND HEMATITE OF ONE OF THE ORE SITES OF THE VIET NAM DEMOCRATIC REPUBLIC 67-03 M02-65573
EFFECT OF CONDITIONS OF TREATING FLUORITE WITH OLEIC ACID ON THE FORM OF COLLECTOR FIXING 67-03 M02-65574
FLASH SMELTING OF LEAD CONCENTRATES 67-03 M03-65006
COLUMBIUM METAL BY THE ALUMINOTHERMIC REDUCTION OF CB2O5 67-03 M03-65007
THE CONCENTRATION AND PELLETIZING OF TACONITE. PT. 3 67-04 M02-66115
THERMAL BENEFICIATION OF LOW GRADE CHROME ORE FROM VAGDA DEPOSITS, RATNAGIRI DISTRICT, MAHARASHTRA 67-04 M02-66307
FIRST CHEMICAL ROUTE FOR MOLYBDENUM PROCESSING 67-04 M02-66331
NONFERROUS METALS AND THE CHEMICAL ENGINEER. PT. 3. COPPER 67-04 M02-66587
MELTING LOW-PHOSPHORUS SLAG FROM CARBONATE ORE CONCENTRATES 67-04 M02-66614
HOW EMULSIONS OF APOLAR REAGENTS ACT IN THE FLOTATION OF IRON ORES 67-04 M02-66652
MECHANISM OF SULFITE COMPLEXES OF IRON IN FLOTATION 67-04 M02-66653
RECOVERY OF ZINC AND LEAD FROM COMPLEX LOW-GRADE SULPHIDE CONCENTRATES BY ACID PRESSURE LEACHING 67-04 M02-66676
THE GLADSTONE ALUMINA PLANT STORY 67-04 M02-67256
UPGRADING LORRAINE MINERALS. ENRICHMENT BY PHYSICAL MEANS 67-04 M02-67398
REDUCTION OF CONVERTER DUST PELLETS 67-04 M02-67554
FLOTATION OF COMPLEX IRON ORES 67-04 M02-67827
STUDY OF INVERSE FLOTATION OF MIKHAILOVSK QUARTZITES WITH AN ANION COLLECTOR 67-04 M02-67933
STUDY OF POSSIBLE MAXIMUM EXTRACTION OF IRON AND INCREASED REMOVAL OF LEAD IN MAGNETIZING ROASTING OF KREMIKOVO IRON ORE 67-04 M03-67446
ON THE EXTRACTION OF NICKEL AS NICKEL CARBONYL FROM LATERITIC ORES 67-04 M03-67721
AN AQUEOUS CHLORINATION PROCESS FOR THE TREATMENT OF MERRILL SLIMES AND GRAVITY CONCENTRATES FROM GOLD ORES. PT. 1. A STUDY OF THE CHEMISTRY OF THE PROCESS AND A REPORT OF LABORATORY TEST WORK 67-04 M03-67757
REGULATION OF THE DL SINTER STRAND IN HADIR-DIFFERDINGEN 67-05 M02-68535
MANUFACTURING OF FLUXED PELLETS 67-05 M02-68542
THE APPLICATION OF ELECTRONIC SORTING TO MINERALS BENEFICIATION 67-05 M02-68644
SEPARATE CIRCUIT FLOTATION OF COPPER AND COPPER-ZINC ORES AFTER AUTOGENOUS GRINDING 67-05 M02-68770
OXIDE MOLYBDENUM RECOVERY AT CLIMAX

67-05 M02-68771
IMPROVING THE BENEFICIATION OF PEROVSKITE ORES
67-05 M02-68955
METHOD FOR PROCESSING NEPHELINE ROCKS
67-05 M02-69246
SEPARATION OF LEAD-COPPER CONCENTRATES BY THE SULFITE METHOD 67-05 M02-69266
TECHNOLOGY OF PRODUCING HIGH-GRADE CONCENTRATES FROM TIN-LEAD RAW MATERIAL 67-05 M02-69272
POSSIBILITY OF PROCESSING CRUDE POLYMETALS BY THE SULFURIC ACID PROCESS 67-05 M02-69301
ON EXTRACTION OF NICKEL FROM LATERITES AND GARNIERITE BY SEGREGATION ROASTING PROCESS
67-05 M02-69362
PROCESSING OF HIGH-IRON ARKANSAS BAUXITE ORES
67-05 M02-69559
SOME FLOTATION TESTS ON ZIRCON AND OTHER BEACH SAND MINERALS 67-05 M02-69885
MANGANESE CARBONATE FROM LOW-GRADE INDIAN MANGANESE ORES 67-05 M03-68477
THE BEHAVIOR OF VERY FINE-GRAINED, COMPLEX SULFIDE ORES DURING FLOTATION 67-05 M03-69118
STUDY OF THE FEASIBILITY OF REMOVING ZINC FROM POLYMETALLIC CONCENTRATES DURING OXYGEN JET MELTING 67-05 M03-69533
NATIONAL METALLURGICAL LABORATORY, ANNUAL REPORT
67-06 M01-71435
THE CHEMICAL EXPLOITATION OF FE CARRIERS
67-06 M02-70079
INDUSTRIAL TESTING OF DZHIZHIKRUT ORE BENEFICIATION SYSTEM 67-06 M02-70187
COMPARATIVE EVALUATION OF COLLECTORS FOR ANTIMONY FLOTATION 67-06 M02-70188
BRIEF REVIEW OF RESEARCH AND CERTAIN CONCLUSIONS ON THE BENEFICIATION OF STANNITE ORES
67-06 M02-70189
UPGRADING OF A TIN PRODUCT CONTAINING RODOCHROSITE
67-06 M02-70190
EFFECT OF MAGNETIC FLOCCULATION ON MAGNETIC BENEFICIATION OF ORES 67-06 M02-70208
METHOD OF PREPARING NATURALLY OIL-SATURATED TITANIUM-BEARING SANDS FOR FLOTATION
67-06 M02-70733
PROCESS CONTROL IN ORE CONCENTRATION
67-06 M02-70823
PREPARATION OF INDUSTRIAL MINERALS
67-06 M02-70826
TECHNICAL AND ECONOMIC INFLUENCE OF IRON ORE DRESSING ON THEIR FURTHER TREATMENT
67-06 M02-70853
COMPLEX USE OF SULFIDE COPPER ORE DURING CONCENTRATION 67-06 M02-71341
GENERALIZED MODEL FOR THE GASEOUS, TOPOCHEMICAL REDUCTION OF POROUS HEMATITE SPHERES
67-06 M02-71612
BENEFICIATION OF LOW-GRADE TIN ORES BY FLOTATION
67-06 M03-70972
DIRECT ACID PRESSURE LEACHING OF CHALCOCITE CONCENTRATE 67-06 M03-72075
PROCESSING 2ND GRADE MANGANESE ORES BY THE MONOCHARGE METHOD 67-06 M04-70372
FOUNDATIONS OF IRON AND STEEL METALLURGY
67-06 M04-70699
PRODUCTION OF FLUXED PELLETS 67-07 M02-72453
FLOTATION OF GOLD FROM PURE QUARTZ ORES
67-07 M02-72777
HIGH-SPEED ELECTROSEPARATION OF FINE-GRAINED MATERIALS 67-07 M02-72778
THE STATE-OF-THE-ART TUNGSTEN AND SCHEELITE --CAWO4-- ORE DRESSING AT THE TUX PLANT AS PRACTICED BY DAMAG 67-07 M02-73728
MILLING A GOLD-BEARING PYRRHOTITE ORE AT DELNITE MINES 67-07 M02-73822
LABRADORS IRON ORE 67-07 M02-74010
PROCESSING OXIDE AND CARBONATE MANGANESE ORES, BENEFICIATION TAILINGS AND BYPRODUCTS CONTAINING MANGANESE 67-07 M03-73038
PRODUCTION OF HIGH-QUALITY BISMUTH CONCENTRATES
67-08 M02-75085
CONCENTRATING CAPACITY OF TITANIUM-MAGNESITE ORES FROM THE VELIKOVETS DEPOSITS 67-09 M02-76719
INVESTIGATIONS IN THE FIELD OF HYDROELECTRIC FLOCCULATION 67-10 M02-78564
THE ROLE OF HIGH TENSION SEPARATION IN THE BENEFICIATION OF BEACH SAND MINERALS
67-10 M02-78610
IMPROVING THE AGGLOMERATION OF ZINC CHARGE THAT CONTAINS ZINC CAKES 67-10 M02-79035
BENEFICIATION OF ASWAN IRON ORES
67-10 M02-79054
THE FLOTATION OF MONAZITE USING ANIONIC CARBOXYLATE COLLECTORS 67-10 M02-79055
INDUSTRIAL TRIALS OF DRESSING TECHNOLOGY FOR PIT-MINED KRIVOI ROG IRON ORES 67-11 M02-81321
COMBINED BENEFICIATION--METALLURGICAL METHOD FOR PROCESSING CASSITERITE-SULFIDE ORES
67-11 M02-81503
CENTRIFUGAL SEPARATION TO RAISE IRON CONTENT OF KERCH ORES 67-11 M02-81634
STUDIES ON THE MECHANISM AND KINETICS OF THE OXIDATION OF COPPER SULFIDE. PT. 2. OXIDATION OF COPPER SULFIDE MIXED WITH ALUMINA IN A FLUIDIZED BED 67-12 M02-82943
STUDIES ON THE MECHANISM AND KINETICS OF THE OXIDATION OF COPPER SULFIDE. PT. 1. OXIDATION OF COPPER SULFIDE IN A FIXED BED
67-12 M02-83000
NITRIC ACID TREATMENT OF THE MOLYBDENUM-CONTAINING SCHEELITE CONCENTRATES 67-12 M02-83022
STUDY OF THE BEHAVIOR OF BISMUTH DURING THE METALLURGICAL TREATMENT OF COPPER CONCENTRATES
67-12 M02-83405
BEHAVIOR OF MOLYBDENUM DURING PYROMETALLURGICAL TREATMENT OF COPPER CONCENTRATES
67-12 M02-83406
THE EFFECT AND INTERRELATION BETWEEN MAIN PARAMETERS OF OXIDIZING STEAMING DURING THE SELECTION OF COPPER-MOLYBDENUM CONCENTRATES
67-12 M02-83442
METHOD OF SEPARATING LEAD-ZINC-PYRITE BULK CONCENTRATES 67-12 M02-83443

BENEFICIATION, AUTOMATION
COMPUTER CONTROL IMPROVES METALLURGY AT TENNESSEE COPPERS FLOTATION PLANT 67-02 M02-59496
AUTOMATIC SORTING OF ORES FROM GOLD-BEARING DEPOSITS 67-08 M02-74891

BERG BARRETT METHOD
APPLICATION OF X-RAY TOPOGRAPHY TO THE ANALYSIS OF THE DISLOCATION ARRANGEMENT IN DEFORMED COPPER SINGLE CRYSTALS 67-07 M13-73061

BERKELIUM, FUEL ELEMENTS
TRANSURANIC ELEMENTS AND THE HIGH-FLUX ISOTOPE REACTOR 67-09 M16-76487

BERYLLIUM
INTERNATIONAL CONFERENCE ON THE METALLURGY OF BERYLLIUM 67-03 M01-65235
CURRENT RESEARCH AT NUCLEAR METALS ON HIGH-PURITY BERYLLIUM 67-03 M13-65272
ESTIMATION BY THE PARTITION METHOD OF THE ACTIVITY OF SMALL AMOUNTS OF IRON IN LIQUID BERYLLIUM AT 1645 K 67-03 M15-65238
BERYLLIUM 67-04 M01-66683
BERYLLIUM TECHNOLOGY. V. 2 67-04 M01-67881
A REVIEW OF ADVANCES IN BERYLLIUM APPLICATIONS SINCE THE 1961 INTERNATIONAL CONFERENCE ON THE METALLURGY OF BERYLLIUM 67-04 M20-67893
BERYLLIUM TECHNOLOGY, V. 1 67-07 M01-73733
BERYLLIUM 67-09 M01-76642
BERYLLIUM AND ITS ALLOYS 67-09 M01-77107
STRUCTURAL BERYLLIUM AND THE BERYLLIUM INDUSTRY
67-11 M01-80765

BERYLLIUM, ALLOYING ADDITIVE
NIOBIUM ALLOYS CONTAINING BERYLLIUM
67-01 M17-58538
A SURVEY OF DECOMPOSITION PROCESSES IN SUPERSATURATED FE-27 AT. PER CENT BE
67-03 M14-65083
BOOSTING LIGHT METAL PROPERTIES WITH BERYLLIUM
67-06 M01-71010
INFLUENCE OF ADDITIONS OF BERYLLIUM, THALLIUM, AND SILICON ON THE HEAT RESISTANCE AND ELECTRICAL AND MECHANICAL PROPERTIES OF SILVER
67-08 M15-74998
PROPERTIES OF ALLOYED NI-BE ALLOYS
67-08 M17-74984
PLASTIC YIELD IN SOME COPPER-BERYLLIUM ALLOYS
67-09 M17-76901
MICROPLASTICITY IN A CU 1.9 WT PER CENT BE PRECIPITATION-HARDENING ALLOY
67-09 M17-77729
INVESTIGATION OF INELASTIC NEUTRON SCATTERING BY A CRYSTAL WITH LIGHT IMPURITY ATOMS
67-10 M16-79463
PROTECTIVE MICROALLOYING OF ALUMINUM BRONZE
67-12 M06-82618
A RESISTOMETRIC STUDY OF THE INITIAL AGING BEHAVIOR OF QUENCHED COPPER-BERYLLIUM ALLOYS
67-12 M10-83067

BERYLLIUM, ATOMIC PROPERTIES
INELASTIC SCATTERING OF ELECTRONS IN BERYLLIUM AND LEAD FOR HIGH ANGLES OF INCIDENCE OF THE PRIMARY BEAM 67-06 M16-71768
COMMENTS ON PAPERS RESULTING FROM HUME-ROTHERYS NOTE-1965 67-06 M16-71970
EFFECT OF HYDROSTATIC PRESSURE ON THE FERMI SURFACE OF BE 67-11 M16-80186
BERYLLIUM, BAND THEORY
SOFT X-RAY ABSORPTION SPECTRA OF METALS AND ALLOYS. PT. 1. BE, AL, SB, BI AND AL-MG ALLOYS 67-04 M16-67473
BERYLLIUM, BINARY SYSTEMS
STUDY ON BINARY DIAGRAM OF AL-BE ALLOY 67-02 M13-61024
BERYLLIUM-RICH END OF FIVE BINARY SYSTEMS 67-07 M13-73742
BERYLLIUM, BONDING
DIFFUSION-BONDING OF FORMABLE STRUCTURAL PANELS BY COMPOSITE ROLLING 67-02 M11-61841
SOLID-STATE BONDING OF BERYLLIUM 67-04 M11-67883
FABRICATION METHODS FOR PBI ADHESIVE BERYLLIUM SANDWICH STRUCTURES 67-10 M11-79436
BERYLLIUM, CASTING
CASTING BERYLLIUM INGOTS AND SHAPES 67-04 M06-67887
BERYLLIUM, CHEMICAL ANALYSIS
THE STATUS OF HIGH PURITY AT A. W. R. E. ALDEMASTON 67-03 M19-65248
ANALYSIS OF BERYLLIUM SPECIMENS BY SPARK MASS SPECTROMETRY 67-03 M19-65249
ACTIVATION ANALYSIS OF CERTAIN METALLOIDS IN THE TRACE CONDITION IN ULTRAPURE BERYLLIUM 67-03 M19-65250
CONTRIBUTION TO THE INVESTIGATION OF THE DETERMINATION OF OXYGEN IN BERYLLIUM BY HIGH-VACUUM MELTING 67-03 M19-65251
MICROANALYSIS OF OXYGEN BY A RADIOACTIVE REAGENT 67-03 M19-65252
APPLICATIONS OF NEUTRON ACTIVATION TO ANALYSIS OF BERYLLIUM 67-03 M19-65253
ACTIVATION ANALYSIS OF OXYGEN IN METALLIC BERYLLIUM BY FAST NEUTRONS 67-04 M19-67600
BERYLLIUM, COATING
THE ANODIC OXIDATION OF BE 67-10 M12-79073
MYRIAD NEW SURFACE ALLOYS VIA ELECTROLYSIS 67-11 M12-80790
BERYLLIUM, COATINGS
REVIEW OF WORK ON BERYLLIUM AS CLADDING MATERIAL 67-01 M12-57992
SATURATION WITH BERYLLIUM BY DIFFUSION 67-08 M12-76020
BATHING METAL WITH ALLOY COATINGS 67-09 M12-76448
ELECTROLYTIC METALLIDING 67-12 M12-82074
THE DIFFUSIONAL BERYLLIZING OF CERTAIN TECHNICAL MATERIALS 67-12 M12-82482
BERYLLIUM, CORROSION
CORROSION OF BERYLLIUM BY SALT WATER 67-03 M18-65476
STRESS CORROSION OF BERYLLIUM IN SYSTHETIC SEA WATER 67-05 M18-69474
ANODIC DISINTEGRATION OF METALS UNDERGOING ELECTROLYSIS IN AQUEOUS SALT SOLUTIONS 67-05 M18-69475
OXIDATION PROTECTION OF BERYLLIUM AT HIGH TEMPERATURES 67-07 M18-73752
BERYLLIUM, CRYSTAL LATTICES
CALCULATION OF CLEAVAGE CHARACTERISTICS OF HEXAGONAL-CLOSE-PACKED CRYSTALS 67-01 M13-58456
ELECTRON DIFFRACTION OF LOW TEMPERATURE. PT. 3. RADIAL DISTRIBUTION ANALYSIS OF METASTABLE STRUCTURE OF METAL FILMS PREPARED BY LOW TEMPERATURE CONDENSATION 67-02 M13-60515
POINT DEFECT ELECTRON SCATTERING IN BERYLLIUM 67-03 M13-65222
OBSERVATION OF BERYLLIUM SINGLE CRYSTALS BY X-RAY TOPOGRAPHY 67-03 M13-65264
DYNAMICS OF THE BERYLLIUM LATTICE 67-03 M16-65260
GROWTH TEXTURES IN BERYLLIUM CONDENSATES 67-04 M14-66499
TWINNING AND DEFORMATION OF BE BY THE CLIMB OF DISLOCATIONS 67-05 M13-69456
EFFECTS OF HYDROSTATIC PRESSURE ON TERMINAL STRUCTURE AND MECHANICAL BEHAVIOR OF BERYLLIUM 67-06 M13-72224
ATOM MOVEMENTS DURING --1011-- TWINNING 67-06 M14-70445
THE DEPENDENCE OF THE CALCULATED ELASTIC CONSTANTS ON THE C..A RATIO FOR HEXAGONAL CLOSE-PACKED STRUCTURE METALS 67-06 M17-71498
INVESTIGATIONS ON SOME DEFORMATION MODES OF BERYLLIUM 67-06 M17-71540
DEFORMATION TEXTURES IN INGOT BERYLLIUM 67-07 M13-73753
GAS FORMATION AND COMPRESSION FRACTURES IN IRRADIATED BERYLLIUM 67-07 M14-73396
SLIP IN BERYLLIUM SINGLE CRYSTALS COMPRESSED ALONG THE C-AXIS NEAR 200 C 67-07 M14-73744
CALCULATIONS OF THE STRESSES TO MOVE DISLOCATIONS ON THE BASAL AND PRISM PLANES OF BERYLLIUM 67-07 M14-73747
NONCENTRAL FORCE MODEL FOR HEXAGONAL CLOSE-PACKED CRYSTAL LATTICES 67-08 M13-75229
LIGHT ELEMENT MICROANALYSIS 67-09 M13-76661
BERYLLIUM, CRYSTAL STRUCTURE
A MICRORELIEF OF THE SURFACE OF BE CONDENSATES 67-04 M13-67928
BERYLLIUM, CRYSTALLIZATION
CRYSTALLIZATION FRONT IN ELECTRIC-ARC ZONE MELTING 67-10 M14-79631
BERYLLIUM, DIFFUSION
SELF-DIFFUSION OF BERYLLIUM 67-01 M14-58024
DIFFUSION OF IRON AND SILVER IN BERYLLIUM 67-01 M14-58025
ANISOTROPY OF DIFFUSION OF COPPER-64 IN BERYLLIUM 67-03 M15-65257
EXAMINATION OF THE DIFFUSION OF BERYLLIUM IN MAGNESIUM BY LOCAL SPECTRAL ANALYSIS 67-05 M14-69621
SELF-DIFFUSION IN BERYLLIUM SINGLE CRYSTALS 67-07 M14-73748
SELF-DIFFUSION AND DIFFUSION OF FOREIGN ATOMS IN BERYLLIUM 67-07 M14-73749
HYDROGEN IN BERYLLIUM 67-07 M14-74242
SELF-DIFFUSION OF BERYLLIUM IN POLYCRYSTALLINE BERYLLIUM OXIDE 67-11 M14-81557
BERYLLIUM, DISLOCATIONS
DISLOCATIONS IN DEFORMED SINGLE CRYSTALS 67-07 M14-73750
BERYLLIUM, ELECTRICAL PROPERTIES
INVESTIGATION OF THE ELECTRICAL AND SUPERCONDUCTIVE PROPERTIES OF METALS OF DIFFERENT PURITIES. PT. 3 67-02 M16-58925
BERYLLIUM, EMITTANCE
THE CHARACTERISTIC X-RAYS FROM BORON AND BERYLLIUM 67-06 M16-71434
BERYLLIUM, EXTRACTION
METALLOTHERMIC REDUCTION OF BERYLLIUM OXIDE 67-02 M03-59430
CRYSTALLIZATION OF METALS ON THE CATHODE DURING ELECTROLYSIS OF FUSED SALTS 67-02 M03-59647
RECENT DEVELOPMENTS IN SOLVENT EXTRACTION TECHNOLOGY 67-02 M03-61586
PURIFICATION OF BERYLLIUM BY EXTRACTION FROM A METALLIC SOLVENT 67-03 M03-65247
RECOVERY OF BERYLLIUM FROM ACID LEACHES OF BERYL BY SOLVENT EXTRACTION 67-07 M03-74297
THE EXTRACTION OF SPECIAL METALS 67-12 M03-83284
BERYLLIUM, EXTRUSION
EXTRUSION AND FORMING UNDER HIGH FLUID PRESSURES 67-01 M07-58672
PLASTIC FLOW IN BERYLLIUM UNDER FLUID PRESSURE AT ROOM TEMPERATURE 67-03 M07-65279
THE EXTRUSION OF BERYLLIUM MILL SHAPES 67-04 M07-67882
EXTRUSION OF ELECTROLYTIC GRADE CR BERYLLIUM 67-04 M08-67888
ON THE THEORY OF THE HYDROEXTRUSION OF BRITTLE METALS 67-05 M07-69664
TEXTURES OF EXTRUDED BAR AND TUBE AND DRAWN WIRE OF BE 67-05 M13-68570
PROBLEMS IN THE EXTRUSION OF STRUCTURAL BERYLLIUM SHAPES 67-10 M08-79535
BERYLLIUM, FIBER METALLURGY
MECHANICAL BEHAVIOR OF BERYLLIUM WIRE REINFORCED PLASTIC COMPOSITES 67-07 M09-73338
THE AGE OF COMPOSITE MATERIALS 67-12 M09-83277
BERYLLIUM, FORGING
FORGING BERYLLIUM FOR STRUCTURAL APPLICATIONS 67-04 M07-67896
DEVELOPMENT AND MECHANICAL EVALUATION OF THE FIRST PRODUCTION PRIMARY BERYLLIUM STRUCTURE 67-04 M17-67897

BERYLLIUM, FORGINGS
HIGH-STRENGTH FORGED BERYLLIUM FOR STRUCTURAL APPLICATIONS 67-04 M17-67895
BERYLLIUM, FORMING
COMPARATIVE TEXTURES OF SLOWLY AND EXPLOSIVELY LOADED METALS 67-05 M13-69745
FORMING, DRAWING AND BLANKING PRODUCTION UNDER HIGH PRESSURE 67-07 M08-73220
BERYLLIUM, GAS BEARINGS
LAPPING SPOT FACES ON AIR BEARING END PLATES 67-04 M08-67764
BERYLLIUM, GRAIN STRUCTURE
THE CRYSTALLOGRAPHY OF BERYLLIUM SHEET 67-07 M13-73757
BERYLLIUM, HARDENING
AGE HARDENING IN BERYLLIUM 67-03 M10-65254
ELECTRON MICROSCOPE STUDY OF WORK HARDENING AND QUENCH HARDENING OF MONOCRYSTALLINE BERYLLIUM 67-03 M13-65271
BERYLLIUM, HEAT TREATMENT
ELECTRON MICROSCOPE OBSERVATIONS ON PRECIPITATION IN BERYLLIUM 67-03 M14-65256
BERYLLIUM, INTERMETALLICS
MAGNETIC BEHAVIOR OF CE IN ITS INTERMETALLIC COMPOUNDS. PT. 6. CE-BE, CE-B AND CE-C SYSTEMS 67-05 M15-69351
SUPERCONDUCTIVITY AND ISOTOPE EFFECT IN BE22X COMPOUNDS AND MOLYBDENUM 67-06 M16-71989
BERYLLIUM, INTERNAL FRICTION
CONTRIBUTION TO THE INVESTIGATION OF INTERNAL FRICTION IN BERYLLIUM 67-03 M17-65262
BERYLLIUM, IRRADIATION
EFFECTS OF IRRADIATION IN BERYLLIUM 67-03 M16-65263
MEASUREMENTS OF THE ENERGY LIBERATED DURING THE HEATING OF BE SPECIMENS IRRADIATED BY NEUTRONS AT 77 K 67-12 M16-82509
BERYLLIUM, JOINING
FABRICATION OF BERYLLIUM STRUCTURES BY BRAZE-WELDING, BRAZING AND SOLDERING 67-04 M11-67889
BERYLLIUM, JOINTS
STATIC AND REPEATED LOADING CHARACTERISTICS OF JOINTS IN BERYLLIUM STRUCTURES 67-03 M11-65293
BERYLLIUM, MACHINING
MACHINING DAMAGE STUDIES IN BERYLLIUM 67-03 M08-65294
TORNETIC CONTROLS AND BUR-POINT GEOMETRY SOLVE PROBLEM OF DRILLING BERYLLIUM SHEET 67-05 M08-69589
BERYLLIUM, MECHANICAL PROPERTIES
THE MICROSTRAIN BEHAVIOR OF BERYLLIUM SINGLE CRYSTALS 67-02 M17-58962
ANISOTROPY OF THE DUCTILE-BRITTLE TRANSITION BEHAVIOR OF BERYLLIUM SHEETS 67-02 M17-60152
BRITTLE BEHAVIOR IN EXTRUDED BERYLLIUM TUBES 67-02 M17-60906
A PRELIMINARY SURVEY OF THE PROPERTIES OF 0.5-5 WT PER CENT COPPER-BERYLLIUM ALLOY SHEET 67-03 M07-65282
THE PLASTIC BEHAVIOR OF BERYLLIUM AND SOME OTHER METALS 67-03 M17-65236
EFFECT OF HYDROGEN ON THE DUCTILITY OF BERYLLIUM PURIFIED BY ZONE MELTING 67-03 M17-65244
INVESTIGATION INTO PLASTIC BEHAVIOUR OF ZONE REFINED AND PRESTRAINED BE SINGLE CRYSTALS 67-03 M17-65265
EFFECT OF PURITY ON TENSILE DEFORMATION IN SINGLE CRYSTALS 67-03 M17-65266
COMPRESSION OF BERYLLIUM PARALLEL TO THE C-AXIS 67-03 M17-65267
MICROSTRAIN COMPRESSION OF A BERYLLIUM, 4.37 PER CENT COPPER ALLOY PARALLEL TO THE C-AXIS 67-03 M17-65268
CONTRIBUTION TO THE STUDY OF THE ACTIVATION OF PRISMATIC SLIP IN BERYLLIUM 67-03 M17-65269
BERYLLIUM AS A TECHNOLOGICAL MATERIAL 67-03 M17-65273
MICROYIELD STRESS DETERMINATIONS OF CAST AND EXTRUDED BERYLLIUM 67-03 M17-65274
THE TOUGHNESS OF BERYLLIUM 67-03 M17-65275
CONTRIBUTION TO THE STUDY OF PLASTIC DEFORMATION MECHANISMS IN POLYCRYSTALLINE BERYLLIUM BETWEEN 80 AND 500 K 67-03 M17-65276
CONTRIBUTION TO THE STUDY OF HIGH-TEMPERATURE CREEP IN POLYCRYSTALLINE BERYLLIUM 67-03 M17-65277
DEFORMATION OF BERYLLIUM UNDER HYDROSTATIC PRESSURE TO 15 KILOBARS 67-03 M17-65280
MECHANICAL PROPERTIES OF HIGH-PURITY BERYLLIUM PRODUCED BY DOUBLE ELECTROLYSIS 67-03 M17-65283
STUDIES ON THE MECHANICAL PROPERTIES OF JAPANESE BERYLLIUM 67-03 M17-65295
INVESTIGATION OF PLASTIC DEFORMATION OF BERYLLIUM SINGLE CRYSTALS SUBJECTED TO COMPRESSION 67-03 M17-65458
CONTRIBUTION TO THE STUDY OF MAGNESIUM, ZIRCONIUM, BERYLLIUM AND ZINC BEHAVIOR DURING ALTERNATIVE PLASTIC DEFORMATIONS 67-03 M17-65554
COMMENTS ON THE FRICTIONAL STRESS OF MOVING DISLOCATIONS 67-04 M17-66070
HARDNESS OF SINGLE BERYLLIUM CRYSTALS FROM ROOM TEMPERATURE TO 400 C 67-04 M17-67573
BUCKLING STRENGTH OF CURVED BERYLLIUM PANELS IN COMPRESSION 67-04 M17-67890
BERYLLIUM IMPACT BEHAVIOR COMPRESSOR BLADE APPLICATION--IMPLICATIONS FOR THE JET ENGINE 67-04 M17-67892
TEXTURE STRENGTHENING 67-05 M17-68669
A METHOD FOR MEASURING THE PLASTICITY AND STRENGTH OF LOW-PLASTICITY MATERIALS 67-05 M17-69614
EXPANDABILITY TEST ON BERYLLIUM TUBE TO BE USED FOR FUEL CLADDING OF NUCLEAR POWER REACTORS 67-05 M17-69883
BERYLLIUM 67-06 M17-70016
APPLICATION OF ANISOTROPIC ELASTICITY THEORY TO THE CHOICE OF PRIMARY SLIP SYSTEMS IN HCP METAL CRYSTALS 67-06 M17-71277
STUDIES ON THE MECHANICAL PROPERTIES OF HOT ROLLED BERYLLIUM AT ELEVATED TEMPERATURES 67-07 M17-72983
STUDIES ON THE MECHANICAL PROPERTIES OF HOT EXTRUDED BERYLLIUM AT ELEVATED TEMPERATURES 67-07 M17-72984
EFFECT OF TRACE IMPURITIES ON THE CRSS FOR --0001-- SLIP IN BERYLLIUM 67-07 M17-73735
EFFECTS OF PURIFICATION, AGGLOMERATION AND HEAT TREATMENT ON THE PROPERTIES OF BERYLLIUM SINGLE CRYSTALS 67-07 M17-73737
THE EFFECTS OF PURIFICATION AND REALLOYING ON THE MECHANICAL PROPERTIES OF ZONE-REFINED SINGLE CRYSTALS 67-07 M17-73739
FATIGUE STUDIES OF SINGLE CRYSTAL BERYLLIUM 67-07 M17-73743
THE EFFECT OF ALFEBE4 ON MECHANICAL PROPERTIES OF FABRICATED POLYCRYSTALLINE BERYLLIUM 67-07 M17-73745
FACTORS AFFECTING THE DUCTILE-BRITTLE TRANSITION IN BERYLLIUM 67-07 M17-73746
EFFECTS OF HEAT TREATMENT ON THE FLOW STRESS 67-07 M17-73751
MECHANICAL AND ELECTRICAL PROPERTIES OF BERYLLIUM WIRE 67-07 M17-73755
THE MICROSTRAIN CHARACTERISTICS OF BERYLLIUM 67-07 M17-73760
MECHANICAL AND FORMING PROPERTIES OF INGOT BERYLLIUM SHEET 67-07 M17-73761
BERYLLIUM INGOT SHEET AND OTHER WROUGHT FORMS 67-07 M17-73762
THE DEFORMATION OF WROUGHT BERYLLIUM 67-07 M17-73763
THE INFLUENCE OF VARIOUS PHYSICAL PROPERTIES OF METALS ON THEIR FRICTION AND WEAR BEHAVIOR IN VACUUM 67-07 M17-74054
THE EFFECT OF TEMPERATURE ON THE HARDNESS ANISOTROPY OF BERYLLIUM SINGLE CRYSTALS 67-09 M17-78259
BERYLLIUM WIRE--A NEW ENGINEERING MATERIAL 67-10 M17-78632
A TENSION TEST METHOD FOR HIGH MODULUS, HIGH-STRENGTH FILAMENTS 67-10 M17-79175
STRAIN HARDENING CRYSTALLINE SOLIDS BY PROGRAMMED LOADING 67-10 M17-79209
THE ELASTIC ANISOTROPY OF ROLLED BERYLLIUM 67-12 M17-82576
BERYLLIUM 67-12 M17-83115
METALS FOR THE SPACE AGE 67-12 M20-83001
BERYLLIUM, MELTING
STUDY OF VACUUM MELTING OF BERYLLIUM 67-03 M03-65285
BERYLLIUM, METAL FOILS
PREPARATION OF THIN SELF-SUPPORTING BERYLLIUM FOILS 67-09 M12-78031
BERYLLIUM, METAL POWDERS
FABRICATION OF COMPLEX BERYLLIUM SHAPES BY GAS-PRESSURE COMPACTION 67-04 M09-67197

BERYLLIUM

PROPERTIES OF GAS-PRESSURE-CONSOLIDATED BERYLLIUM POWDER 67-04 M09-67884
BERYLLIUM, METAL WORKING
BERYLLIUM INGOT WIRE 67-02 M07-59010
HOT DEEP DRAWING--B&P EXPERIENCE 67-03 M07-65036
DEFORMATION AND FORMING OF BERYLLIUM AT ROOM TEMPERATURE UNDER PRESSURE 67-07 M07-73754
DRAWING FINE BERYLLIUM WIRE 67-07 M07-73766
BERYLLIUM, METALLOGRAPHY
SOME INNOVATIONS AND OBSERVATIONS ON HIGH PRESSURE DIFFRACTOMETRY 67-01 M13-58762
BERYLLIUM, MICROSTRUCTURE
DEFORMATION STRUCTURES IN BERYLLIUM 67-03 M13-65270
BERYLLIUM AGING 67-03 M14-65255
CONTRIBUTION TO THE STUDY OF THE RECRYSTALLIZATION OF BERYLLIUM AND BERYLLIUM-CALCIUM 67-03 M14-65278
PREPARATION OF FINE-GRAIN BERYLLIUM BY THE CAST AND WROUGHT ROUTE 67-07 M07-73736
FINE GRAIN SIZE IN BERYLLIUM BY SPLATCOOLING 67-07 M13-73764
SOME ELECTRON MICROSCOPE OBSERVATIONS ON PRECIPITATION IN BERYLLIUM 67-07 M14-73741
A METHOD FOR DETECTION OF MICROPORES IN METALS 67-10 M13-79206
BERYLLIUM, NONDESTRUCTIVE TESTING
NONDESTRUCTIVE TESTING OF BERYLLIUM 67-07 M19-73765
BERYLLIUM, NUCLEAR METALLURGY
THE MACHINING OF NUCLEAR MATERIALS 67-04 M08-67297
A REVIEW OF PROGRESS IN BERYLLIUM TECHNOLOGY AND APPLICATIONS SINCE THE 1961 INTERNATIONAL CONFERENCE ON BERYLLIUM TECHNOLOGY HELD IN LONDON 67-04 M20-67891
BERYLLIUM, NUCLEAR PROPERTIES
FAST NEUTRON SCATTERING FROM BERYLLIUM, SODIUM, AND ALUMINUM 67-06 M16-70548
NUCLEAR QUADRUPOLE COUPLING, KNIGHT SHIFT, AND SPIN-LATTICE RELAXATION TIME IN BERYLLIUM METAL 67-09 M16-77161
BERYLLIUM, OXIDATION
OXIDATION OF BERYLLIUM 67-03 M18-65258
BERYLLIUM, PHASE TRANSFORMATIONS
CONTRIBUTION TO THE INVESTIGATION OF THE PRESSURE-TEMPERATURE DIAGRAM OF PURE BERYLLIUM 67-03 M13-65261
BERYLLIUM, PHYSICAL PROPERTIES
THERMAL DIFFUSIVITY AND THERMAL CONDUCTIVITY OF METALLIC BERYLLIUM 67-01 M15-57634
VAPOR PRESSURE OF BERYLLIUM AND LIQUID SILVER 67-03 M15-65237
INTERNAL FRICTION IN SINTERED BERYLLIUM 67-04 M15-67834
THE STRUCTURAL APPLICATION OF BERYLLIUM TO THE GEMINI SYSTEM 67-04 M15-67898
THE STRUCTURAL APPLICATION OF BERYLLIUM TO PRECISION INSTRUMENTS WITH PARTICULAR REFERENCE TO INERTIAL NAVIGATION SYSTEMS 67-04 M15-67900
BERYLLIUM, POWDER METALLURGY
INFLUENCE OF GRAIN SIZE-PURITY RELATIONSHIPS ON THE ABILITY TO FABRICATE BERYLLIUM AND THE RESULTING MECHANICAL PROPERTIES 67-03 M09-65284
CURRENT RESEARCH AT NUCLEAR METALS ON HIGH-PURITY BERYLLIUM 67-03 M09-65288
ACTIVATED SINTERING OF BERYLLIUM 67-03 M09-65290
MICRO-ALLOYING BERYLLIUM FOR IMPROVING SINTERING CHARACTERISTICS AND MECHANICAL PROPERTIES 67-03 M09-65291
FABRICATION OF COMPLEX BERYLLIUM SHAPES BY GAS-PRESSURE COMPACTION 67-03 M09-65292
DEVELOPMENT OF METHODS OF PRODUCING BERYLLIUM TUBES FOR NUCLEAR FUEL ELEMENT CANS 67-04 M09-67886
ACTIVATED SINTERING IN BERYLLIUM POWDERS BY SELECTIVE ADDITION OF TRACE ELEMENTS 67-07 M09-73758
THE EXTRUSION OF METAL POWDERS 67-07 M09-73867
BERYLLIUM POWDER FORGING 67-07 M09-73870
MANUFACTURE OF BERYLLIUM 67-08 M09-76100
BERYLLIUM, RADIATION EFFECTS
RADIATION EFFECTS IN NONFUEL MATERIALS 67-11 M16-80472
BERYLLIUM, REACTIONS /NUCLEAR/
CALCULATIONS AND MEASUREMENTS OF THE QUANTITIES OF HELIUM PRODUCTS BY REACTIONS IN IRRADIATED BERYLLIUM 67-07 M16-74238
BERYLLIUM, REFINING
PURIFICATION OF BERYLLIUM BY HIGH VACUUM DISTILLATION 67-03 M03-65239
PREPARATION OF HIGH-PURITY BERYLLIUM 67-03 M03-65240
CONTRIBUTION TO THE STUDY OF THE PURIFICATION OF BERYLLIUM BY SUBLIMATION AND DISTILLATION 67-03 M03-65241
IMPURITY REMOVAL BY DISTILLATION OF BERYLLIUM FROM THE SOLID STATE 67-03 M03-65242
MORPHOLOGICAL OBSERVATIONS AFTER DISTILLATION OF BERYLLIUM FROM THE SOLID STATE AT HIGH TEMPERATURES 67-03 M03-65243
INFLUENCE OF AN ELECTRIC FIELD ON THE PURIFICATION OF METALS BY ZONE MELTING--APPLICATION TO PURIFICATION OF BERYLLIUM 67-03 M03-65245
INTERACTION OF IMPURITIES DURING PURIFICATION BY ZONE MELTING--APPLICATION TO THE IMPROVEMENT OF THE PURIFICATION OF BERYLLIUM BY SCAVENGERS 67-03 M03-65246
PURIFICATION OF BERYLLIUM BY CRUCIBLE-FREE VACUUM MELTING AND DISTILLATION PROCESSES 67-07 M03-73734
ELECTRON BEAM VAPORIZATION OF BERYLLIUM 67-07 M03-73738
RADIATION HEATER FOR FLOATING-ZONE REFINING 67-10 M03-79646
BERYLLIUM, ROLLING
THE EFFECT OF ROLLING AND ANNEALING TEMPERATURE ON THE PROPERTIES OF WROUGHT BERYLLIUM INGOT SHEET 67-03 M17-65281
FABRICATION AND EVALUATION OF LARGE THIN-GAGE BERYLLIUM SHEET FROM CAST INGOTS 67-04 M07-67885
DEVELOPMENT OF BERYLLIUM STRUCTURE FOR SPACE VEHICLES 67-04 M07-67899
BERYLLIUM, SCATTERING
INELASTIC SCATTERING OF ELECTRONS IN BERYLLIUM AND LEAD AT LARGE ANGLES OF INCIDENCE OF THE PRIMARY BEAM 67-06 M16-71913
BERYLLIUM, SINGLE CRYSTALS
ZONE MELTING OF BERYLLIUM AND PULLING FROM THE MELT 67-11 M03-81157
BERYLLIUM, SOLUBILITY
RESEARCH INTO THE SOLUBILITY OF CERIUM IN BERYLLIUM 67-09 M14-76951
BERYLLIUM, STRUCTURAL MEMBERS
THE PERFORMANCE OF CROSS-ROLLED SHEET IN STRUCTURAL APPLICATIONS 67-03 M17-65296
SUMMARY AND DISCUSSION OF JOINT DESIGN DATA FOR BERYLLIUM AEROSPACE STRUCTURES 67-04 M17-67894
BERYLLIUM, SUPERCONDUCTIVITY
THE SUPERCONDUCTIVITY IN BETA-BERYLLIUM AND RELATED PHASES 67-07 M16-73203
SUPERCONDUCTIVITY OF HEXAGONAL BERYLLIUM 67-08 M16-75186
BERYLLIUM, TERNARY SYSTEMS
TERNARY COMPOUNDS IN THE BERYLLIUM-BORON-CARBON SYSTEM 67-01 M13-58076
NEW G PHASES 67-05 M13-68485
TRIANGULATION OF THE SYSTEM C-SI-BE 67-06 M13-70774
X-RAY EXAMINATION OF THE AL-BE-CE SYSTEM UP TO 25 PER CENT CE 67-12 M13-82122
BERYLLIUM, THERMAL PROPERTIES
MATERIALS IN AN ATLAS-AGENA SHROUD 67-05 M20-68685
DIMENSIONAL STABILITY AND THERMAL EXPANSION CHARACTERISTICS OF BERYLLIUM 67-07 M15-73756
A. C. TEMPERATURE MEASUREMENT OF CHANGES IN HEAT CAPACITY OF BERYLLIUM IN A MAGNETIC FIELD 67-11 M15-80774
BERYLLIUM, THIN FILMS
ORIENTED GROWTH OF AN OXIDE FILM ON BERYLLIUM 67-05 M14-68244
BERYLLIUM, WELDING
METALS JOINING 67-04 M11-66193
DIFFUSION BONDING BERYLLIUM, MOLYBDENUM AND TUNGSTEN 67-05 M11-68675
WARM-WELDING OF METALS IN ULTRA-HIGH VACUUM 67-06 M11-70953
VAPOR-PLATING ALUMINUM ON BERYLLIUM FOR WELDING 67-06 M11-71681
BERYLLIUM, WIRE
YIELDING PHENOMENA IN BERYLLIUM WIRE PLASTIC COMPOSITES 67-06 M17-70618

BERYLLIUM, X RAY ANALYSIS
X-RAY FLUORESCENT ANALYSIS OF BERYLLIUM FOR VANADIUM THROUGH COPPER IN THE PERIODIC TABLE 67-03 M19-65020

BERYLLIUM BASE ALLOYS
INTERNATIONAL CONFERENCE ON THE METALLURGY OF BERYLLIUM 67-03 M01-65235
BERYLLIUM TECHNOLOGY, V. 1 67-07 M01-73733
BERYLLIUM AND ITS ALLOYS 67-09 M01-77107

BERYLLIUM BASE ALLOYS, AEROSPACE
LARGE STIFFENED CYLINDER WEIGHT--COST COMPARISONS BETWEEN BE-38 PER CENT AL AND OTHER MATERIALS 67-06 M20-70613

BERYLLIUM BASE ALLOYS, CASTING
BERYLLIUM COPPER INVESTMENT CASTINGS 67-04 M06-68133

BERYLLIUM BASE ALLOYS, CHEMICAL ANALYSIS
THE STATUS OF HIGH PURITY AT A. W. R. E. ALDEMASTON 67-03 M19-65248

BERYLLIUM BASE ALLOYS, COMPOSITE MATERIALS
MANUFACTURING AND PROPERTIES OF BERYLLIUM-ALUMINUM COMPOSITE MATERIALS 67-07 M01-73759

BERYLLIUM BASE ALLOYS, CORROSION
PROBLEMS OF CORROSION OF BERYLLIUM IN CARBON DIOXIDE UNDER PRESSURE AT HIGH TEMPERATURES 67-03 M18-65259

BERYLLIUM BASE ALLOYS, CRYSTAL LATTICES
PHASES WITH DIAMOND SUBSTRUCTURE IN TERNARY BERYLLIUM ALLOYS 67-09 M13-78272
APPLICATION OF THE ELECTRON MICROSCOPE FOR PRODUCTION OF PSEUDO-KOSSEL PATTERNS AND THEIR USE IN THE DETERMINATION OF LATTICE CONSTANTS OF A BERYLLIUM-4.4 PER CENT WT PER CENT COPPER ALLOY 67-10 M13-79997

BERYLLIUM BASE ALLOYS, EXTRUSION
METALWORKING 67-11 M07-80531

BERYLLIUM BASE ALLOYS, HEAT TREATMENT
ELECTRON MICROSCOPE OBSERVATIONS ON PRECIPITATION IN BERYLLIUM 67-03 M14-65256

BERYLLIUM BASE ALLOYS, MECHANICAL PROPERTIES
MICROSTRAIN COMPRESSION OF A BERYLLIUM, 4.37 PER CENT COPPER ALLOY PARALLEL TO THE C-AXIS 67-03 M17-65268
MECHANICAL PROPERTIES OF HIGH-PURITY BERYLLIUM PRODUCED BY DOUBLE ELECTROLYSIS 67-03 M17-65283
MAKING SATELLITE STRUCTURES FROM BERYLLIUM-LOCKALLOY 67-05 M01-68681
A MECHANICAL PROPERTY EVALUATION OF BE-38 PER CENT AL ALLOY FROM -320 TO 800 F 67-05 M17-69449
IMPROVED BERYLLIUM COPPER ALLOY MACHINES QUICKLY, SMOOTHLY 67-06 M08-70691
PROPERTIES AND BEHAVIOR OF BERYLLIUM-ALUMINUM ALLOYS 67-07 M17-73740
BERYLLIUM AND BERYLLIUM ALLOYS 67-11 M01-80467
THE MICROYIELD STRENGTH OF BERYLLIUM-IRON ALLOYS 67-12 M17-82588

BERYLLIUM BASE ALLOYS, MICROSTRUCTURE
BERYLLIUM AGING 67-03 M14-65255
CONTRIBUTION TO THE STUDY OF THE RECRYSTALLIZATION OF BERYLLIUM AND BERYLLIUM-CALCIUM 67-03 M14-65278
MICROANALYZER STUDY OF INCLUSIONS IN BERYLLIUM AND THEIR RELATION TO THE PROPERTIES OF SEMIFINISHED BERYLLIUM PRODUCTS 67-03 M17-65286
SOME ELECTRON MICROSCOPE OBSERVATIONS ON PRECIPITATION IN BERYLLIUM 67-07 M14-73741
TWINNING IN BERYLLIUM BINARY ALLOYS DURING PRESSURIZATION IN A SOLID MEDIUM 67-12 M13-82859

BERYLLIUM BASE ALLOYS, PHYSICAL PROPERTIES
RATE OF VAPORISATION OF BERYLLIUM DURING THERMAL DISSOCIATION OF CEBE13 67-12 M15-82128

BERYLLIUM BASE ALLOYS, POWDER METALLURGY
MICRO-ALLOYING BERYLLIUM FOR IMPROVING SINTERING CHARACTERISTICS AND MECHANICAL PROPERTIES 67-03 M09-65291

BERYLLIUM BASE ALLOYS, REFINING
PRODUCTION OF BERYLLIUM ALLOYS 67-02 M03-61590

BERYLLIUM BASE ALLOYS, ROLLING
A PRELIMINARY SURVEY OF THE PROPERTIES OF 0.5-5 WT PER CENT COPPER-BERYLLIUM ALLOY SHEET 67-03 M07-65282

BERYLLIUM BASE ALLOYS, SHEET /METAL/
CHARACTERISTICS OF BE-38 PER CENT AL SHEET 67-03 M01-65289

BERYLLIUM BASE ALLOYS, TUBING /METAL/
FABRICATION AND MECHANICAL PROPERTIES OF SEMIFINISHED BERYLLIUM-CALCIUM PRODUCTS FOR CO2-COOLED REACTORS. PRODUCTION, TRANSFORMATION AND PROPERTIES OF EXTRUDED CAST BERYLLIUM TUBING 67-03 M17-65287

BERYLLIUM BRONZES, HEAT TREATMENT
TECHNIQUES OF METALLOGRAPHIC QUALITY CONTROL OF THE HEAT TREATMENT OF BERYLLIUM BRONZE 67-06 M10-70182
QUENCHING OF BERYLLIUM BRONZE STRIP 67-06 M10-71312

BERYLLIUM BRONZES, MECHANICAL PROPERTIES
ABNORMAL PHENOMENA AT STRESS RELAXATION IN BERYLLIUM BRONZE 67-09 M17-77128

BERYLLIUM BRONZES, WELDING
ARGON ARC WELDING BR.82 BERYLLIUM BRONZE 67-11 M11-80547

BERYLLIUM COMPOUNDS, BENEFICIATION
STUDY OF THE INTERACTION OF CATION COLLECTORS WITH BE2SIO4 67-03 M02-65572
EFFECT OF THE ORDER OF ADDING REAGENTS ON THE FLOTATION PROPERTIES OF CERTAIN MINERALS 67-11 M02-81507

BERYLLIUM COMPOUNDS, BINARY SYSTEMS
SOME INVESTIGATIONS ON THE ELECTRIC AND MAGNETIC PROPERTIES OF CR2O3-BEO SYSTEM 67-08 M15-74779

BERYLLIUM COMPOUNDS, CERAMICS
HEAT RESISTANT CERAMIC MATERIALS 67-06 M05-70225

BERYLLIUM COMPOUNDS, COATINGS
PLASMA-SPRAYED DIELECTRIC COATINGS FOR HEAT SINKS IN ELECTRONIC PACKAGING 67-12 M12-81895

BERYLLIUM COMPOUNDS, CRYSTAL GROWTH
THE CALCINATION OF TWO BEO POWDERS 67-04 M14-66241

BERYLLIUM COMPOUNDS, CRYSTAL LATTICES
TRANSMISSION ELECTRON MICROSCOPE STUDIES OF NEUTRON IRRADIATED BERYLLIUM OXIDE 67-02 M13-59049
DISLOCATION ETCH PITS IN SINGLE-CRYSTAL AND POLYCRYSTALLINE BERYLLIUM OXIDE 67-02 M13-61832

BERYLLIUM COMPOUNDS, DIFFUSION
CATION-SELF-DIFFUSION AND ELECTRICAL CONDUCTIVITY IN POLYCRYSTALLINE BERYLLIUM OXIDE 67-02 M14-61835
SELF-DIFFUSION OF BERYLLIUM IN POLYCRYSTALLINE BERYLLIUM OXIDE 67-11 M14-81557
BERYLLIUM OXIDE 67-11 M16-80468

BERYLLIUM COMPOUNDS, ELASTIC CONSTANTS
ELASTIC CONSTANTS OF HEXAGONAL BEO, ZNS AND CDSE 67-08 M17-75130

BERYLLIUM COMPOUNDS, ELECTRICAL PROPERTIES
HIGH GRADE CERAMICS FOR MICROWAVE AND OTHER APPLICATIONS 67-03 M20-65715

BERYLLIUM COMPOUNDS, EMITTANCE
THE CHARACTERISTIC X-RAYS FROM BORON AND BERYLLIUM 67-06 M16-71434

BERYLLIUM COMPOUNDS, EXTRACTION
PREPARATION OF HIGH-PURITY BERYLLIUM COMPOUNDS BY SOLVENT EXTRACTION 67-07 M03-74296

BERYLLIUM COMPOUNDS, MECHANICAL PROPERTIES
CREEP-ELECTRICAL CONDUCTIVITY CORRELATIONS IN POLYCRYSTALLINE BERYLLIUM OXIDE 67-08 M17-76097
HIGH-TEMPERATURE CREEP AND DISLOCATION ETCH PITS IN POLYCRYSTALLINE BERYLLIUM OXIDE 67-09 M17-76754
MICROHARDNESS OF IRRADIATED BERYLLIUM OXIDE 67-11 M17-80631

BERYLLIUM COMPOUNDS, MICROSTRUCTURE
CLUSTERING OF DEFECTS IN NEUTRON-IRRADIATED BERYLLIUM OXIDE 67-06 M14-70983

BERYLLIUM COMPOUNDS, PHYSICAL PROPERTIES
MATERIALS FOR ENGINEERS. PT. 8. BERYLLIUM OXIDE 67-06 M05-70692
IRRADIATION DAMAGE TO SINTERED BERYLLIUM OXIDE AS A FUNCTION OF FAST-NEUTRON DOSE AND FLUX AT 110, 650 AND 1100 C 67-06 M16-70706
VAPOR PRESSURE, ENTHALPY, EVAPORATION COEFFICIENT AND ENTHALPY OF ACTIVATION OF THE BERYLLIUM NITRIDE --BE3N2-- DECOMPOSITION REACTION 67-12 M15-82994

BERYLLIUM COMPOUNDS, POWDER METALLURGY
DEVELOPMENT TRENDS IN MODERN POWDER METALLURGY 67-01 M09-58717
HOT-PRESSED TRANSLUCENT OXIDES 67-02 M09-60710
HOT PRESSING OF BERYLLIA AND ZIRCONIA 67-09 M09-77474

BERYLLIUM COMPOUNDS, RADIATION EFFECTS
DIRECT OBSERVATION OF FISSION FRAGMENT DAMAGE IN

BERYLLIUM COMPOUNDS
SOME CERAMIC OXIDES 67-04 M16-67459
BERYLLIUM COMPOUNDS, REDUCTION /CHEMICAL/
METALLOTHERMIC REDUCTION OF BERYLLIUM OXIDE 67-02 M03-59430
BERYLLIUM COMPOUNDS, THERMAL PROPERTIES
THE THERMODYNAMIC AND PHYSICAL PROPERTIES OF BERYLLIUM COMPOUNDS. PT. 11. THE HEAT OF FORMATION AND ENTROPY OF BERYLLIUM --I-- HYDROXIDE --G-- 67-08 M15-75382
RELATIVE ENTHALPY OF BERYLLIUM 1..1-ALUMINATE, BEO . AL2O3, FROM 273 TO 1173 K. THERMODYNAMIC PROPERTIES FROM 273 TO 2150 K 67-08 M15-75666
RELATIVE ENTHALPY OF BERYLLIUM 1..3-ALUMINATE, BEO . 3AL2O3, FROM 273 TO 1173 K. THERMODYNAMIC PROPERTIES FROM 273 TO 2150 K 67-08 M15-75667
BERYLLIUM COMPOUNDS, VAPORIZING
EVAPORATION OF POROUS OXIDE CERAMIC AT HIGH TEMPERATURES 67-03 M05-65304
BERYLLIUM COMPOUNDS, WAVE MECHANICS
LATTICE VIBRATIONS OF BEO 67-05 M13-68279
BESSEMER CONVERTERS
SEE ALSO BASIC BESSEMER CONVERTERS
PRODUCTION OF STEEL BY THE BESSEMER PROCESS 67-03 M04-65543
SOME ASPECTS OF CARBON AND SILICON OXIDATION IN BESSEMER CONVERSIONS 67-10 M04-79819
BESSEMER FURNACES
SEE BESSEMER CONVERTERS
BESSEMER PROCESS
SEE BESSEMER CONVERTERS
BETA IRRADIATION
SEE BETA RAYS
IRRADIATION
BETA PARTICLES
SEE BETA RAYS
BETA PHASE
TH-THC PHASE DIAGRAM 67-04 M13-66274
OBSERVATIONS OF DEFECTS IN BETA BRASS 67-07 M13-73919
THE BAINITE TRANSFORMATION OF BETA-BRASS 67-07 M14-73929
THE SUPERCONDUCTIVITY IN BETA-BERYLLIUM AND RELATED PHASES 67-07 M16-73203
TRANSMISSION ELECTRON MICROSCOPE STUDY OF THE STRUCTURE OF HIGH TEMPERATURE BETA-PHASE IN CU-SN ALLOY 67-11 M13-80809
OPTICAL STUDIES OF BETA-SIC 67-11 M15-80614
EFFECT OF BACKGROUND-GAS IMPURITIES ON THE FORMATION OF SPUTTERED BETA-TANTALUM FILMS 67-11 M15-81078
OPTICAL CONSTANTS OF BETA-PHASE NIAL 67-11 M15-81079
PRODUCTION OF RHOMBOHEDRAL BETA BORON 67-12 M03-82538
RADIOCRYSTALLOGRAPHIC ANALYSIS OF LOW- AND HIGH-TEMPERATURE FORMS OF RB2SO4 67-12 M13-82694
BETA PHASE, PRECIPITATION
PRECIPITATES IN CU-NI-ZN-SI ALLOYS 67-05 M14-68582
BETA RADIATION
SEE BETA RAYS
BETA RADIOACTIVITY
SEE BETA RAYS
BETA RAYS
ANALYSIS OF THE HEAVY ELEMENT IN ALLOYS AND ORES BY BETA-RAY BACKSCATTERING 67-09 M19-77570
RAPID ANALYSIS IN METALLURGY BY MEANS OF THE BETA-BACKSCATTERING METHOD 67-12 M19-82281
BEVATRONS
SEE SYNCHROTRONS
BEVEL GEARS, MACHINING
GRINDING GEARS WITH CIRCULAR-ARC TOOTH-CURVE 67-09 M08-77578
BEVEL GEARS, MECHANICAL PROPERTIES
WHY GEARS FAIL 67-04 M17-67909
BEVEL GEARS, METAL WORKING
HOT FORGED GEARS TO FINE TOLERANCES 67-04 M07-66889
BHN HARDNESS
SEE BRINELL HARDNESS NUMBER
BIAXIAL STRESS
SEE AXIAL STRESS
BICRYSTALS, CRYSTAL GROWTH
CHANGE IN MOSAIC STRUCTURE ASSOCIATED WITH THE DISTRIBUTION OF IMPURITIES IN GROWING SINGLE CRYSTALS AND BICRYSTALS FROM THE MELT 67-01 M14-57102
EXPERIMENTAL EVIDENCE FOR PSEUDOMORPHIC GROWTH OF PLATINUM ON GOLD 67-06 M14-72220
BICRYSTALS, CRYSTAL LATTICES
SLIP BAND CONTINUITY ACROSS GRAIN BOUNDARIES IN ALUMINUM 67-04 M13-66053
MECHANISM FOR VISCOUS GRAIN-BOUNDARY SLIDING 67-04 M14-66681
THE DEFORMATION BEHAVIOR OF ISOAXIAL BICRYSTALS OF FE-3 PER CENT SI 67-06 M14-71966
BICRYSTALS, CRYSTAL STRUCTURE
NUCLEATION OF DEFORMATION TWINS IN ZINC BICRYSTALS 67-05 M17-68294
BICRYSTALS, MAGNETIC PROPERTIES
DOMAIN-WALL MOTION IN GRAIN-ORIENTED SILICON STEEL IN CYCLIC MAGNETIC FIELDS 67-07 M15-73517
BICRYSTALS, MECHANICAL PROPERTIES
FATIGUE CRACK FORMATION IN BICRYSTALS OF LEAD 67-02 M17-60811
STUDY OF THE DEFORMATION OF GRAIN BOUNDARY REGION IN PURE AL BICRYSTALS 67-05 M17-68874
INTRINSIC BRITTLE STRENGTH OF MAGNESIUM OXIDE BICRYSTALS 67-09 M17-77426
BICRYSTALS, MICROSTRUCTURE
GRAIN BOUNDARY SLIDING IN HIGH-PURITY ALUMINIUM BICRYSTALS DURING THE SHEAR TEST UNDER CONSTANT LOAD AND TEMPERATURE 67-01 M17-58322
GRAIN BOUNDARY SLIDING OF AL-CU SOLID SOLUTION ALLOY DEFORMED BY SHEAR 67-01 M17-58323
STUDY OF PURE ALUMINUM SINGLE AND BICRYSTALS RECRYSTALLIZATION 67-03 M14-65559
ELECTRON MICROSCOPY OF GRAIN STRUCTURE OF LOW DISORIENTATION 67-09 M13-78012
BICRYSTALS, PRECIPITATION
MORPHOLOGY OF CELLULAR PRECIPITATION OF TIN FROM LEAD-TIN BICRYSTALS 67-06 M14-70425
BILLET MILLS
AUTOMATION OF THE DUO-800 MILL FOR HOT ROLLING NONFERROUS METALS ON CONTACTLESS CONTROL DEVICES 67-06 M07-70737
THE NEW CONTINUOUS 900/700/500 BILLET MILL 67-07 M07-74075
BILLET MILLS, AUTOMATION
SYSTEMS STUDY FOR A CONTROL COMPUTER AT THE NEW CASTLE 18 IN. CONTINUOUS MILL 67-12 M07-83173
BILLETS
SEE ALSO EXTRUSION BILLETS
BILLETS, CASTING
MODELING THE PROCESS OF POURING STEEL INTO MULTISECTION CRYSTALLIZERS 67-02 M04-61741
CONTINUOUS CASTING OF NON-FERROUS METAL BILLETS AND SLABS. PT. 2 67-03 M03-65500
WISCONSIN STEELS 8-STRAND CONTINUOUS CASTING INSTALLATION 67-04 M04-68104
AMERICAN IRON AND STEEL INSTITUTE REGIONAL TECHNICAL MEETING. EXPERIENCES WITH CONTINUOUS CASTING OF BILLETS 67-04 M04-68107
EXPERIENCES WITH CONTINUOUS CASTING OF BILLETS 67-05 M04-68695
HEATING THE FEEDER HEADS OF ALLOY STEEL INGOTS BY EXOTHERMIC SLEEVES 67-05 M04-69683
CASTING AND PREHEATING IN ONE LINE 67-06 M03-70498
THE CONTINUOUS CASTING OF HOLLOW BILLETS 67-06 M04-72159
HOLLOW COPPER BILLETS CONTINUOUSLY CAST FOR EXTRUSION AT HALSTEAD PLANT 67-07 M03-73841
CASTING SQUARE BILLETS OF SMALL CROSS SECTION ON A MULTIPASS CONTINUOUS CASTING UNIT 67-07 M04-73776
EFFECT OF THE ARRANGEMENT OF THE RADIAL CRYSTALLIZER IN A CONTINUOUS CASTING UNIT ON THE QUALITY OF THE BILLETS 67-07 M04-73777
EXOTHERMIC SLEEVES FOR CONSERVING HEAT IN THE FEEDER HEADS OF ALLOY STEEL INGOTS 67-07 M04-74069
ON THE QUALITY OF 18-8 STAINLESS STEEL WIRE ROD FROM CONTINUOUS-CAST BILLETS 67-07 M07-72440
MULTI-STRAND CONTINUOUS CASTING OF SMALL SQUARE BILLETS 67-09 M04-76539
EFFECT OF POSITION OF A CURVED MOLD IN A CONTINUOUS CASTING MACHINE ON BILLET QUALITY 67-09 M04-76540
LOW LEVEL, STRAIGHT MOLD CONTINUOUS CASTING OF STEEL 67-09 M04-76667
A STUDY OF THE CONTINUOUS MULTISTRAND CASTING OF STEEL BY THE USE OF A MODEL 67-10 M04-79666
FORMATION OF BILLET SHELL IN CONTINUOUS-CASTING MOLDS WITH FLAT AND CURVED WALLS

67-10 M04-79717
TRIAL CONTINUOUS CASTING OF RIMMING STEEL INTO SQUARE NARROW BILLETS 67-11 M04-81446
AN INTEGRAL PROFILE METHOD FOR THE ANALYSIS OF HEAT FLOW IN THE CONTINUOUS CASTING OF METALS 67-12 M03-83082
CONTINUOUS SOLIDIFICATION. IMPROVED INSTALLATIONS FOR CASTING BRONZE 67-12 M03-83114
SECONDARY COOLING IN CONTINUOUS CASTING AND ITS INFLUENCE ON SOLIDIFICATION PARAMETERS 67-12 M04-82384

BILLETS, CORROSION
INVESTIGATION OF SCALE FORMING DURING HEATING OF METAL IN HOLDING FURNACES OF LIGHT SECTION AND ROD MILLS 67-05 M18-68334
INVESTIGATING SCALING WHILE HEATING METAL IN CONTINUOUS FURNACES OF LIGHT-SECTION AND WIRE MILLS 67-07 M18-72862

BILLETS, CUTTING
GAS-ELECTRIC CUTTING IN CONTINUOUS CASTING OF STEEL 67-01 M11-57255
CONTROLLING MODERN FLYING SHEARS 67-05 M08-69181
THE PREPARATION OF METAL BILLETS BY BARCROPPING 67-05 M08-69874

BILLETS, DESCALING
REMOVAL OF SCALE ON WIRE ROD 67-01 M12-57909

BILLETS, EXTRUSION
HIGH SPEED IMPACT EXTRUSION OF METALS 67-07 M07-74090

BILLETS, FORGING
HEATING IN THE DROP FORGE. PT. 3. THE CASE FOR ELECTRICITY 67-07 M07-72761
REDUCING SHAFT BILLETS IN A SPECIAL DIE 67-08 M07-75483
PRODUCING FORGINGS FROM CONTINUOUSLY CAST RECTANGULAR BILLETS 67-08 M07-75488
EXAMPLES OF HIGH ENERGY RATE FORGING ON A DYNAPAK MACHINE 67-09 M08-77693

BILLETS, FORMING
RELATIONSHIP BETWEEN PARAMETERS OF PIERCING OPERATION AND QUALITY OF INITIAL TUBE BILLET 67-04 M07-66214
FUNDAMENTAL STUDY OF METAL FLOW IN STEEL FORGING. PT. 1 67-06 M07-71316

BILLETS, HEAT TREATMENT
SLABS LEAVE FURNACE WITHOUT SCALE 67-10 M10-78860
RAPID HEATING OF STEEL FOR HOT WORKING. PT. 2. RAPID HEATING BY JET IMPINGEMENT 67-11 M10-80675
RAPID HEATING OF STEEL FOR HOT WORKING. PT. 2. RAPID HEATING BY JET IMPINGEMENT 67-11 M10-80869
RAPID HEATING OF STEEL FOR HOT WORKING. PT. 3. THE METALLURGICAL EFFECTS OF RAPID HEATING 67-12 M10-81947
REHEATING FURNACES FOR CONTINUOUS STEELMAKING 67-12 M10-82929

BILLETS, HEATING
ECONOMICAL HOT WORKING THROUGH RESISTANCE HEATING 67-02 M07-59532
RAPID HEATING OF BILLETS FROM HOT STATE 67-02 M07-62279
DEVELOPMENT AND INVESTIGATION OF SPECIAL COMPOSITIONS OF GLASS FOR HEATING BILLETS 67-02 M10-59408
IMPROVING THE METHOD FOR HEATING INGOTS AND BILLETS OF 1KH16N4B STEEL 67-02 M10-59409
THE HEATING TECHNOLOGY OF STEEL IN OPEN-FLAME FURNACES 67-02 M10-60796
USING MOLTEN GLASS TO HEAT STEEL BILLETS 67-07 M10-73955
RAPID HEATING OF STEEL FOR HOT WORKING. PT. 1 67-10 M10-79087

BILLETS, MACHINING
BILLET GRINDING 67-06 M08-70821
THAT SPEED THING 67-07 M08-74218

BILLETS, MECHANICAL PROPERTIES
EFFECT OF QUALITY OF STARTING BILLET OF VT8 ALLOY ON PROPERTIES OF THE PIECES 67-04 M17-66978

BILLETS, METAL WORKING
ROLLING TWO-LAYER INGOTS OF L53-KH6F1 STEELS ON A BLOOMING MILL 67-02 M07-58877
DEFORMING METAL BY PULSING MAGNETIC FIELD 67-02 M08-59820
STUDY OF THE PROPERTIES OF COMPLEX BILLETS ROLLED ON THREE-HIGH MILLS FOR CROSS-HELICAL ROLLING OF ROUND SHAPES 67-05 M07-69690
PROPERTIES OF COMPACT BILLETS ROLLED ON THREE-HIGH STANDS FOR FURTHER TRANSVERSE-HELICAL ROLLING INTO ROUND PERIODIC SECTIONS 67-07 M07-74076
HOT PIERCING TUBES BY A THREE-ROLL TECHNIQUE 67-08 M07-75562
FORMATION OF SUB-SURFACE CRACKS DURING HOT ROLLING OF AUSTENITIC GRADE STAINLESS STEEL TUBES 67-08 M07-75727

BILLETS, MICROSTRUCTURE
INTERNAL SOUNDNESS OF CONTINUOUSLY-CAST BILLETS 67-06 M13-72278

BILLETS, NONDESTRUCTIVE TESTING
FINISHING OF INTERMEDIATE PRODUCTS 67-02 M12-62069
THE AUTOMATION OF THE CONTINUOUS NONDESTRUCTIVE TESTING OF HOT ROLLED PRODUCTS 67-07 M19-72713
BRIGHTSIDE INSPECTION AND DESEAMING LINES FOR LYSAGHTS 67-07 M19-72932
HIGHLY MECHANIZED INSPECTION AND DESEAMING LINES IN A STEELWORKS 67-07 M20-73373
MAGNETIC BILLET CLASSIFIER 67-09 M19-76471
THE AUTOMATIC ULTRASONIC TESTING OF BILLETS FOR INTERNAL DEFECTS 67-09 M19-76509

BILLETS, ROLLING
BILLET MILL AND WIRE ROD MILL AT THE APPLEBY-FRODINGHAM STEEL COMPANY, SCUNTHROPE, ENGLAND 67-01 M07-58577
POWER PARAMETERS FOR ROLLING SHAPED PROFILES FROM CAST BILLETS 67-02 M07-61872
POWER AND FORCE PARAMETERS IN ROLLING SHAPED SECTIONS FROM CAST BILLETS 67-04 M07-67691
INVESTIGATION OF THE NEW 900/700/500 CONTINUOUS BILLET MILL 67-05 M07-69689
NEW TUBEMAKING TECHNIQUE--UK WORLD LEAD 67-06 M07-70021
INSPECTION AND DESEAMING LINE FOR SEMI-FINISHED ROLLED STEEL 67-06 M07-70243
CONTROL OF A MULTISTAND HOT-STRIP MILL 67-07 M07-72900
THE NEW CONTINUOUS 900/700/500 BILLET MILL 67-07 M07-74075
THE KROSS ROLE PROCESS 67-08 M07-74361
INVESTIGATION OF THE DEFORMATION PROCESSES OF HOT CALIBER ROLLING OF STEEL USING PLASTICINE AS A MODEL MATERIAL 67-08 M07-75770
QUALITY OF ROLLED STOCK FROM CONTINUOUSLY CAST FLAT INGOTS 67-09 M07-77631
QUALITY OF ROLLED PRODUCT PRODUCED FROM CONTINUOUSLY CAST SLABS 67-11 M07-80919

BILLETS, STEEL MAKING
IMPROVING THE QUALITY OF SEMIKILLED STEEL 67-08 M04-76272
IMPROVING THE QUALITY OF SEMI-KILLED OR BALANCED STEEL AT THE PETROVSKII WORKS 67-10 M04-79265

BILLETS, SURFACE FINISHING
INSPECTING AND DESEAMING BILLETS 67-06 M08-71742

BILLETS, SURFACE PROPERTIES
EFFECTS OF THE INTERNAL SHAPE OF THE MOLD ON THE SURFACE FINISH OF MEDIUM-CARBON STEEL SLABS 67-04 M04-67861
ANTI-FLAKE TREATMENT OF CONTINUOUSLY CAST CHROMIUM-NICKEL STEEL SLABS 67-08 M04-75717

BILLETS, TUBEMAKING
THREE ROLL PIERCER MAKES DIRECT ROLLING OF CONTINUOUSLY CAST BILLET POSSIBLE 67-05 M07-69594
CAUSES FOR CRACK DEFECTS IN HOT ROLLED TUBES OF AUSTENITIC STAINLESS STEELS 67-06 M07-71258
THREE ROLLS IMPROVE QUALITY AND LOWER COST OF SEAMLESS TUBING 67-07 M07-74092

BILLETS, WELDING
INVESTIGATION OF A BUTT WELDING MACHINE AND THE WELDING CONDITIONS FOR WELDING CONTINUOUS BILLETS IN A 350-2 MILL 67-02 M11-60197
PRESS WELDING UNIFORMLY HEATED LARGE SIZE STEEL BILLETS 67-05 M17-69409
THE FORGE WELDING OF LARGE CROSS SECTION STEEL BLANKS 67-10 M17-78513

BIMETALS
DIP FORMING OF BIMETALLIC WIRE 67-03 M12-65616
PRODUCING NB-STEEL BIMETAL BY VACUUM ROLLING 67-05 M12-68238

BIMETALS, ADHESION
TRANSITION LAYER IN IRON-TITANIUM BIMETAL 67-01 M12-58033

BIMETALS, BONDING

BIMETALS

METHODS OF IMPROVING THE TECHNOLOGY OF PRODUCING BILAYER SHEET STEEL 67-02 M07-61948
MEANS OF IMPROVING THE MANUFACTURE OF TWO-PLY STEELPLATE 67-04 M07-67777
SILVER BIMETALS 67-08 M11-75634
BIMETALS, CASTING
CASTINGS WITH INSERTS 67-01 M06-57974
TEMPERATURE CONDITIONS ON THE BOUNDARY OF JOINING OF TWO IRONS IN CAST BIMETAL 67-04 M06-66418
ADHESION OF STEELS IN THE PRODUCTION OF BIMETALLIC CASTINGS 67-12 M06-83038
BIMETALS, CLAD METALS
PRODUCTION OF BIMETAL SHEETS BY VACUUM PACK ROLLING 67-05 M12-68550
MANUFACTURE OF BIMETALLIC SHEETS BY ROLLING VACUUM PACKS 67-07 M12-72461
BIMETALS, CLADDING
STAINLESS STEEL SANDWICH PRODUCTION 67-01 M12-58031
BIMETAL TAPE WITH METALLOCERAMICC MAGNETIC LAYER ON A NONMAGNETIC BASE 67-01 M12-58137
ROLLING LARGE-DIMENSION SHEET SANDWICHES CLAD IN TOUGH-DEFORMING STEELS 67-01 M12-58182
CHARACTERISTICS AND NEW TRENDS IN THE PRODUCTION OF SEMI-FINISHED PARTS FROM SINTERED ALUMINUM POWDER 67-02 M09-61627
ROLLING OF BIMETAL STEEL--AL-SB-MG ALLOY WITH ALUMINUM INTERLAYER 67-02 M12-59197
BENDING BIMETALLIC STRIP DURING ROLLING 67-04 M12-66618
CLADDING TITANIUM IN A VACUUM 67-08 M12-75097
BIMETALS, COATING
DIP FORMING OF BIMETALLIC WIRE 67-09 M12-76476
BIMETALS, CORROSION
MATERIALS OF CONSTRUCTION 67-03 M20-65696
RESISTANCE OF ALLOYED STEELS TO CORROSION AND EROSION 67-05 M18-68388
BIMETALS, CUTTING
OXYGEN-FLUX CUTTING OF A FOUR-LAYER BIMETAL PIECE 67-03 M08-65056
OXY-FLUX CUTTING OF FOUR LAYER CLAD METAL SANDWICH 67-07 M08-73977
BIMETALS, DIFFUSION
REACTION DIFFUSION OF IRON IN ALUMINUM 67-01 M14-58047
STUDYING DIFFUSION OF MOLYBDENUM INTO COPPER BY MEASURING THERMOELECTROMOTIVE FORCE 67-02 M14-61559
CARBON MIGRATION IN THE HEAT-AFFECTED ZONE OF THE BIMETAL STEEL-BRONZE 67-02 M14-61914
DIFFUSION IN A BIMETAL HAVING DIFFERENT CONCENTRATIONS OF SILICON 67-05 M14-68383
BIMETALS, ELECTRICAL PROPERTIES
ELECTRICAL PROPERTIES OF COPPER-ALUMINUM JOINTS MADE BY ARGON ARC WELDING 67-04 M15-66439
THE ELECTRICAL PROPERTIES OF TIG WELDED JOINTS BETWEEN COPPER AND ALUMINIUM 67-07 M15-72698
BIMETALS, ELECTROPLATES
ELECTRODEPOSITION OF NICKEL-TUNGSTEN ALLOYS FROM THE PYROPHOSPHATE BATH 67-04 M12-67904
BIMETALS, EXTRUSION
EXTRUSION OF STEEL-COPPER BIMETAL TUBES 67-02 M07-59698
EXTRUDED BIMETALLIC FINNED TUBES 67-02 M08-59817
BIMETALS, FORGING
CONTACT AND INTERLAYER STRESSES IN BIMETALS DURING UPSETTING 67-02 M07-60673
BIMETALS, HOT WORKING
TWO-LAYER PACK ROLLING 67-01 M12-57682
BIMETALS, JOINING
STRUCTURE OF THE TRANSITION ZONE IN BIMETAL SHEETS OF KH18N10T STAINLESS STEEL - AMG6 ALUMINUM ALLOY 67-09 M12-77411
BIMETALS, MAGNETIC PROPERTIES
CASTING ELECTRICAL STEEL AND RESULTING EFFECT ON ITS MAGNETIC PROPERTIES 67-04 M06-66336
BIMETALS, MECHANICAL PROPERTIES
RESEARCH INTO THE DEFORMATION AND STRENGTH OF LAYER COHESION IN A STEEL-COPPER BIMETAL IN HOT ROLLING 67-01 M12-58072
ADHESIVE STRENGTH OF LAYERS OF ALUMINUM ALLOY-KH18N10T STEEL BIMETAL 67-01 M17-57281
ON THE STRESS STATE AND DEFORMATION OF HARD MATERIAL IN WELDED JOINTS WITH HARD AND SOFT INTERLAYERS 67-01 M17-57368
WORKABILITY OF CARBON STEEL-NICKEL BIMETAL 67-01 M17-57603
MECHANICAL PROPERTIES OF BIMETALS 67-01 M17-58073
EFFECT OF HEATING ON THE STRENGTH OF A TITANIUM-STEEL BIMETAL 67-02 M17-60781
MECHANICAL PROPERTIES OF HIGH-STRENGTH BIMETAL SHEETS 67-02 M17-61971
INVESTIGATION OF LAYER ADHESION STRENGTH IN BIMETAL SHEETS DURING CYCLICAL LOADING 67-03 M17-65606
INFLUENCE OF THE INTERMEDIATE NI FILM ON STRUCTURE AND PROPERTIES OF BIMETAL STEEL 67-04 M12-66373
PRODUCING BIMETALS BY VACUUM ROLLING 67-05 M12-68235
METHODS OF DETERMINING THE MECHANICAL PROPERTIES OF SHEET BIMETALLIC JOINTS 67-05 M17-69048
STRENGTH AND STRUCTURE OF AL-CU BONDED JOINTS 67-05 M17-69541
FATIGUE STRENGTH OF TWO LAYER STEEL, CLAD BY EXPLOSION BONDING 67-06 M12-70302
WEAR-RESISTING CLAD PLATE AND ITS USE IN THE PRODUCTION OF LARGE-DIAMETER TUBE 67-07 M17-73023
ADHESION STRENGTH OF LAYERS IN BIMETAL SHEETS UNDER INTERMITTENT STATIC LOADS 67-08 M17-74531
INVESTIGATION OF THE TRANSITION ZONE IN AN ALUMINUM-STEEL BIMETAL 67-09 M01-78117
EXPLOSION FORCE FOR FORMING TUBULAR BIMETAL BILLETS FOR HOT DEFORMATION 67-10 M12-78390
MECHANICAL PROPERTIES OF HIGH-STRENGTH BIMETALLIC SHEETS 67-10 M17-78828
RESEARCH INTO THE MECHANISM BY WHICH CLAD STEEL PLATE RUPTURES DURING DEFORMATION AT HIGH TEMPERATURES 67-10 M17-78934
EFFECT OF THE THICKNESS OF INTERMEDIATE NICKEL COATINGS ON THE STRUCTURE AND PROPERTIES OF TWO-LAYER STEEL PLATES 67-11 M12-80975
METHODS FOR DETERMINING THE MECHANICAL PROPERTIES OF BIMETAL SHEET BOND 67-12 M17-81999
BIMETALS, MECHANICAL TESTS
PREPARING SPECIMENS FOR MECHANICAL TESTS OF BIMETAL PRODUCTS 67-02 M17-60965
BIMETALS, METAL WORKING
PRODUCTION OF TWO-LAYER STEEL SHEET PACKS 67-02 M07-58876
ROLLING TWO-LAYER INGOTS OF L53-KH6F1 STEELS ON A BLOOMING MILL 67-02 M07-58877
FORCE FOR DRAWING BIMETALLIC WIRE 67-09 M07-77365
BIMETALS, MICROSTRUCTURE
MICRO-X-RAY SPECTRAL STUDY OF THE BOUNDARY ZONE IN A BIMETAL 67-02 M13-58880
BIMETALS, PHASES /STATE OF MATTER/
STRUCTURE AND PHASE COMPOSITION OF DIFFUSION LAYER IN BIMETALLIC IRON-ALUMINUM CASTINGS 67-01 M13-57190
BIMETALS, POWDER METALLURGY
METHODS AND SPECIAL FEATURES OF ROLLING BIMETALLIC STRIPS FROM METAL POWDERS 67-08 M09-74904
PROCESSES OF MANUFACTURING ANISOTROPIC POWDER COMPOSITES AND DEVELOPMENT OF PRODUCTION PLANS 67-08 M09-75451
BIMETALS, RAILROAD TRACK
DEVELOPING A TECHNOLOGY FOR PRODUCING HIGH-STRENGTH RAILROAD RAILS 67-05 M08-68554
DEVELOPING A TECHNOLOGY FOR PRODUCING HIGH-TENSILE STEEL RAILWAY RAILS 67-07 M08-72465
BIMETALS, ROLLING
PACK ROLLING TITANIUM-IRON 67-01 M12-58068
ROLLING THICK TWO-LAYER SHEETS OF STEEL/ALLOY MONEL ON A 2800 MILL 67-01 M12-58071
DEFORMATION OF THE LAYERS OF SHAPED TWO-LAYER STEEL --FOR CULTIVATOR TOOLS-- 67-02 M07-59507
PRODUCTION OF ROLLED BIMETAL SHAPES 67-02 M07-60964
THE APPLICATION OF CURRENT-CONDUCTING POWDER COMPOSITIONS ON METAL PARTS BY THE METHOD OF ROLLER-WELDING ROLLING 67-02 M11-62118
NATURAL CONDITIONS OF GRIP --BITE-- IN THE ROLLING OF LAMINATED METALS 67-06 M07-71359
ROLLING OF STRUCTURAL ALUMINUM-STEEL BIMETALS 67-06 M12-71358
CONTROL OF THE TOTAL THICKNESS OF ROLLED STOCK AND OF THE THICKNESS OF ITS STEEL BASE 67-06 M19-70097
DEPENDENCE OF BOND QUALITY ON THE ROLLING CONDITIONS OF BIMETAL 67-08 M12-75215
ROLLING OF BIMETALLIC STEEL/COPPER PIPES IN

CONTINUOUS PIPE AND TUBE MILLS
67-09 M07-76862
THE BEHAVIOR OF ELECTROPLATED NICKEL SUBLAYERS DURING ROLLING OF BIMETALS 67-10 M07-79812
SPECIFIC PRESSURE WHEN ROLLING BIMETALS BY THE PILE METHOD 67-11 M07-81654
METHOD OF MANUFACTURING ALLOY STEEL-PLATED SECTIONS FROM CARBON STEEL 67-12 M12-82904
BIMETALS, THERMAL PROPERTIES
UNIFORMLY HEATED BIMETALLIC STRIPS
67-02 M01-60988
BIMETALS, WELDABILITY
INVESTIGATION OF NONSTATIONARY THERMAL FIELDS IN ALUMINUM-STEEL BIMETAL 67-01 M11-58268
RESEARCH INTO THE TRANSIENT THERMAL FIELD IN ALUMINIUM CLAD STEEL 67-04 M11-67349
BIMETALS, WELDING
ON-SITE WELDING OF PLATED STEEL PRESSURE VESSELS
67-02 M11-59500
ERECTION WELDING OF BILAYER STEEL 20K-PLUS-KH17N13M2T 67-02 M11-59528
APPARATUS FOR WELDING BIMETALLIC CONTACTS
67-02 M11-60941
AUTOMATIC WELDING OF ELECTRIC MOTOR SHAFTS MADE FROM DISSIMILAR STEELS 67-02 M11-62168
WELDING OF APPARATUS FROM TI-CLAD BIMETALS
67-04 M11-66347
THE AUTOMATIC WELDING OF ELECTRIC MOTOR SHAFTS MADE OF DISSIMILAR STEELS 67-04 M11-67163
BUILDUP WITH A MELTED FILLER METAL
67-04 M12-66572
WELDED EXPANDED TUBES OF LARGE DIAMETER MADE OF STEEL BIMETAL 67-06 M11-71259
USE OF EP-389 WIRE FOR AUTOMATIC WELDING OF CLAD STEELS USED FOR CHEMICAL AND OIL REFINING APPARATUS 67-06 M11-71851
AUTOMATIC WELDING OF ST. 3 PLUS OKH23N28M3D3T BILAYER STEEL 67-07 M11-72873
EXPANDED LARGE DIAMETER WELDED PIPES OF TWO-LAYER STEEL 67-08 M11-75728
ELECTROSLAG WELDING OF OIL REFINING MACHINERY
67-09 M11-76518
STUDY OF DIFFUSION JOINTS OF SOME HETEROGENEOUS METALS BY X-RAY DIFFRACTION ANALYSIS
67-09 M11-77605
MECHANIZED WELDING OF THICK-WALLED VESSELS OF CLAD STEELS 67-09 M11-77958
THE AUTOMATIC WELDING OF CLAD STEELS USING EP-389 ELECTRODE WIRE 67-11 M11-80883
THE WELDING OF COATED SHEETS WITH THE CAPACITANCE-DISCHARGE METHOD AND COAXIAL ELECTRODE ARRANGEMENT 67-11 M11-81074
BIMETALS, WIRE
MANUFACTURE OF STEEL-ALUMINUM WIRE BY THE POWDER METALLURGY METHOD 67-02 M09-62203
STEEL WIRE CLAD WITH COPPER FOR LEADS TO RADIO PARTS 67-07 M20-74149
BINARY SYSTEMS
STUDY OF THE MANGANESE-BORON SYSTEM
67-01 M13-58058
ON THE TUNGSTEN-RICH REGION OF THE TUNGSTEN-SILICON PHASE EQUILIBRIUM DIAGRAM 67-02 M13-60742
CALCULATING SOLIDUS CURVES OF GERMANIUM SOLID SOLUTIONS IN GE-CU, GE-AG AND GE-AU SYSTEMS
67-02 M13-61727
ON THE P-T-C-REPRESENTATION OF THE NIOBIUM-OXYGEN AND TANTALUM-OXYGEN SYSTEMS 67-02 M13-61889
THE TITANIUM-RHODIUM ALLOYS 67-02 M13-61890
STATE OF ORDERING AND THE ELECTRICAL RESISTIVITY IN THE QUASIBINARY SECTION NI4MO-NI4-W
67-02 M13-61896
EFFECT OF THE STRUCTURE OF AN INTERMETALLIC COMPOUND ON THE THERMODYNAMIC PROPERTIES OF METALLIC SYSTEMS 67-04 M13-66013
STUDY OF THE VANADIUM-CARBON AND VANADIUM-CHROMIUM-CARBON SYSTEMS 67-04 M14-67199
BINARY SYSTEMS, ATOMIC PROPERTIES
HYPERFINE INTERACTIONS AT FE57 NUCLEI IN INTERMETALLIC COMPOUNDS OF THE FE-MN SYSTEM WITH THE BETA-MANGANESE STRUCTURE 67-07 M16-73529
EFFECT OF ALLOYING ON ALUMINUM K AND COPPER L X-RAY EMISSION SPECTRA IN THE ALUMINUM-COPPER SYSTEM 67-09 M16-77436
SOME ENERGY MEASUREMENTS RELATED TO STRUCTURE OF METALLIC LIQUIDS 67-11 M16-81570
BINARY SYSTEMS, CHEMICAL ANALYSIS
ANALYSIS OF BINARY ALLOYS FROM THE THERMO-EMF AND TEMPERATURE COEFFICIENT OF ELECTRICAL RESISTIVITY
67-05 M19-69306
BINARY SYSTEMS, CHEMICAL COMPOSITION
THE MIXING HEATS OF SB WITH B METALS. PT. 1. SYSTEMS WITH ZN AND CD 67-05 M15-68487
BINARY SYSTEMS, COATINGS
ELECTROLYTIC DEPOSITION OF ZINC-CADMIUM ALLOY FROM ACETATE BATHS 67-12 M12-83491
BINARY SYSTEMS, CORROSION
UTILIZATION OF THE POTENTIOSTATIC PULSE METHOD IN THE STUDY OF CORROSION PROCESSES
67-07 M18-73698
BINARY SYSTEMS, CRYSTAL DEFECTS
MEASUREMENT OF STACKING-FAULT ENERGIES BY X-RAY DIFFRACTION 67-05 M14-69217
BINARY SYSTEMS, CRYSTAL GROWTH
CONDITIONS FOR CRYSTALLIZATION OF INTERMEDIATE PHASES IN THE CD-SB SYSTEM 67-09 M14-76846
BINARY SYSTEMS, CRYSTAL LATTICES
THE CRYSTALLINE STRUCTURE AND STRUCTURAL RELATIONSHIP OF THE GAMMA AND EPSILON PHASES IN THE SYSTEM CU-SN 67-01 M14-58625
CRYSTAL STRUCTURE OF THE HOAL3 AND DYAL3 COMPOUNDS
67-02 M13-59674
THE NBCD3 PHASE 67-02 M13-60889
THE ROOM-TEMPERATURE LATTICE SPACINGS OF SOME INTRA RARE-EARTH BINARY SYSTEMS 67-03 M13-65132
SOME NOTES ON THE PALLADIUM-SILICON SYSTEM
67-04 M13-68156
LATTICE DYNAMICS OF THE ALLOY SYSTEMS BI-PB-TL
67-06 M16-70088
THE CRYSTAL STRUCTURE OF GD13ZN58
67-07 M13-73438
CRYSTALLINE STRUCTURES OF CERTAIN COMPOUNDS OF RARE-EARTH METALS WITH CADMIUM
67-07 M13-73482
ELECTRON TRANSMISSION MICROSCOPY OF NIAL
67-08 M13-75219
STRUCTURAL CHARACTERISTICS AND CRYSTALLOCHEMISTRY OF BINARY MAGNESIUM COMPOUNDS
67-08 M13-75437
CRYSTAL STRUCTURE REFINEMENTS OF THE B 20 AND MONOCLINIC --COGE-TYPE-- POLYMORPHS OF FEGE
67-09 M13-76384
VACANCY MODELS FOR CONCENTRATED BINARY ALLOYS. PT. 1. SHORT-RANGE ORDERED AND CLUSTERED ALLOYS
67-09 M13-77595
VACANCY MODELS FOR CONCENTRATED BINARY ALLOYS. PT. 2 67-09 M13-77596
DETERMINING THE STRENGTH OF THE INTERATOMIC BOND BY THE CHARACTERISTIC TEMPERATURE
67-10 M17-79231
THE EXISTENCE OF VARIOUS PHASES IN THE QUASI-BINARY SYSTEM, BI2SE3-BI2S3 67-11 M13-80400
CRYSTALLOGRAPHIC STUDY OF THE SYSTEM, ERBIUM-SELENIUM 67-11 M13-81567
BINARY SYSTEMS, CRYSTALLIZATION
THE EFFECT OF CAPILLARINACTIVE ADDITIVES UPON THE CRYSTALLIZATION OF FUSED METALS
67-07 M14-72423
BINARY SYSTEMS, CRYSTALLOGRAPHY
CRYSTALLOGRAPHIC COMPLEXITIES IN THE AL-CU SYSTEM
67-06 M14-72232
BINARY SYSTEMS, DIFFUSION
INTERDIFFUSION BETWEEN COMPONENTS AND THE PHASE DIAGRAM OF THE TI-W SYSTEM 67-01 M13-58099
DIFFUSION KINETICS IN BINARY SYSTEMS IN THE PRESENCE OF CERTAIN PHASES 67-01 M14-57345
ANODIZING AS A TECHNIQUE FOR STUDYING DIFFUSION IN THE TICB SYSTEM 67-01 M14-57432
DIFFUSION OF SILVER IN MOLTEN LEAD-TIN ALLOYS
67-03 M14-65847
DIFFUSION OF SILVER IN MOLTEN LEAD-BISMUTH AND TIN-BISMUTH ALLOYS 67-03 M14-65848
HIGH-TEMPERATURE MOBILITY OF ATOMS OF MOLYBDENUM-TUNGSTEN SYSTEM COMPONENTS 67-04 M14-66262
STRUCTURAL INVESTIGATION OF REACTION DIFFUSION IN THE COPPER-ZINC SYSTEM 67-04 M14-66486
SELF-DIFFUSION OF ANTIMONY IN SB-SN AND SB-PB LIQUID ALLOYS 67-04 M14-67389
THERMAL DIFFUSION IN THE UO2-CEO2 SYSTEM
67-04 M14-67455
STUDY OF MUTUAL DIFFUSION IN BINARY SYSTEMS FORMING A CONTINUOUS SERIES OF SOLID SOLUTIONS, BY LOCAL X-RAY SPECTRAL ANALYSIS. PT. 1
67-04 M14-67915
SELF-DIFFUSION IN HIGHLY-DILUTED BINARY SOLUTIONS. PT. 3. EFFECT OF SN, SB, PB AND BI PHASE
67-04 M14-67919
INTERDIFFUSION IN THE ZN-U SYSTEM
67-04 M15-66662

BINARY SYSTEMS

SELF-DIFFUSION IN MOLTEN ALLOYS OF SN-SB, SN-PB AND SN-ZN 67-06 M14-70904
DIFFUSION IN POLYPHASE ALLOY SYSTEMS 67-06 M14-71858
REACTION DIFFUSION OF CARBON IN THE ME-C SYSTEM 67-06 M14-72342
THE PRESSURE RELATIONSHIP BETWEEN THE KIRKENDALL EFFECT AND THE SELF-DIFFUSION IN A PB-TL SYSTEM 67-07 M14-72450
MUTUAL DIFFUSION IN SOME BINARY SYSTEMS WHICH FORM CONTINUOUS SERIES OF SOLID SOLUTIONS 67-07 M14-73476
ELECTROLYTIC DISSOLUTION OF BINARY ALLOYS CONTAINING A NOBLE METAL 67-09 M14-77892
DETERMINATION OF INTRINSIC DIFFUSION COEFFICIENTS BY MEASUREMENT OF THE KIRKENDALL EFFECT IN THE CU-NI SYSTEM 67-09 M14-78013
DETERMINATION OF DIFFUSION COEFFICIENTS BY MEASURING THE KIRKENDALL EFFECT 67-11 M14-80623
THE PRINCIPLE OF HEAT RESISTANT ALLOYING 67-12 M17-81832

BINARY SYSTEMS, DIFUSION
SURFACE AND VOLUME DIFFUSION IN THIN FILMS OF THE SYSTEM AG-SE 67-07 M14-72944

BINARY SYSTEMS, ELECTRICAL PROPERTIES
THE EFFECT OF PRESSURE ON THE RESISTIVITY AND THERMOELECTRIC POWER OF LIQUID MERCURY-INDIUM ALLOYS 67-02 M15-60807
CONDUCTIVITY MEASUREMENTS IN THE THALLIUM-TELLURIUM SYSTEM 67-02 M15-60880
INVESTIGATION OF SI-TA2O5 SYSTEM PREPARED BY REACTIVE SPUTTERING 67-02 M16-60521
INVESTIGATION OF THE TEMPERATURE DEPENDENCE OF THE RESISTIVITY AND THERMO-EMF OF BISMUTH-CADMIUM AND BISMUTH-TIN MELTS OF EUTECTIC COMPOSITIONS 67-04 M15-67053
ELECTRICAL PROPERTIES OF MELTS OF SIO2-UO2 SYSTEMS 67-04 M15-67106
ELECTRICAL RESISTIVITY MEASUREMENTS OF LIQUID BINARY ALLOYS. PT. 1. BI-IN SYSTEM 67-04 M15-67518
PREDICTED RESISTIVITIES OF LIQUID SILVER-TIN ALLOYS 67-06 M15-71990
SUPERCONDUCTING TRANSITION TEMPERATURE AND ELECTRONIC STRUCTURE IN THE PSEUDOBINARIES NB3AL-NB3SN AND NB3SN-NB3SB 67-07 M16-73640
PERMITTIVITY OF SOLID SOLUTIONS IN THE SYSTEM ZNXHG1-XTE 67-07 M16-73998
STUDY OF CERTAIN THERMODYNAMIC PROPERTIES OF THE PH-HG SYSTEM 67-11 M15-81178
A NOTE ON THE ELECTRICAL RESISTIVITY OF SOME 1-4 AND 3-5 LIQUID ALLOY SYSTEMS 67-11 M15-81571

BINARY SYSTEMS, EUTECTICS
THE BINARY EUTECTICS GASB-GAV3SB5 AND GASB-V2GA5 67-05 M13-68277

BINARY SYSTEMS, FUSIBILITY
THE STUDY OF FUSING OF VARIOUS ALLOYS MADE BY MEANS OF X-RAY FLUORESCENCE ANALYSIS 67-02 M14-60122

BINARY SYSTEMS, INTERMETALLICS
THE SYSTEM PLATINUM-GERMANIUM 67-01 M13-57496
THE EXISTENCE OF INTERMETALLIC COMPOUNDS IN THE NB-ZN SYSTEM 67-03 M13-65796

BINARY SYSTEMS, MAGNETIC PROPERTIES 67-05 M15-69300
MAGNETISM OF THE TITANIUM-OXYGEN SYSTEM
MAGNETISM OF THE TITANIUM-OXYGEN SYSTEM 67-05 M15-69300
MAGNETIC SUSCEPTIBILITY MEASUREMENTS OF RUTILE AND THE MAGNELI PHASES OF THE TI-O SYSTEM 67-05 M15-69523
OBLIQUE-INCIDENCE ANISOTROPY AND DOMAIN CONFIGURATION IN NI-CO FILMS 67-05 M15-69762
ELASTORESISTANCE EFFECT IN THIN FILMS OF CU-NI 67-06 M15-71546
FERROMAGNETIC RESONANCE IN A SERIES OF ALLOYS. PT. 1. BINARY ALLOYS OF NICKEL WITH COPPER, TUNGSTEN, COBALT AND CHROMIUM 67-06 M15-72086
FERROMAGNETIC RESONANCE IN A SERIES OF ALLOYS. PT. 2. BINARY ALLOYS OF COBALT WITH PLATINUM AND PALLADIUM, AND ONE IRON-PALLADIUM ALLOY 67-06 M15-72087
MAGNETIC ELECTRICAL AND THERMAL PROPERTIES OF THE BCC-ALPHA PHASE IN A FE-GA SYSTEM 67-07 M15-72726
A BASIS FOR SOME OF THE VARIETY OF MAGNETIC PROPERTIES OF THE HEAVY RARE-EARTH METALS AND ALLOYS 67-07 M15-73581
MAGNETOELASTIC COEFFICIENT AND TEMPERATURE RELATIONSHIP IN THIN NI-FE FILMS 67-07 M15-73597
MAGNETIC-SUSCEPTIBILITY STUDIES ON THE MAGNELI PHASES OF THE TITANIUM-OXYGEN SYSTEM 67-07 M15-73601
SOME INVESTIGATIONS ON THE ELECTRIC AND MAGNETIC PROPERTIES OF CR2O3-BEO SYSTEM 67-08 M15-74779
LOCALIZED IMPURITY STATES IN LIQUID METALS--PARAMAGNETIC SUSCEPTIBILITIES OF MANGANESE IN LIQUID METALS 67-08 M15-75053
PARAMAGNETIC STUDY OF FE-SI AND FE-GE ALLOYS 67-10 M15-80022
THE MAGNETOCRYSTALLINE ANISOTROPY OF NI-CO FERRITES 67-11 M15-80615
ITINERANT ANTIFERROMAGNETISM IN CHROMIUM ALLOYS 67-12 M15-82905

BINARY SYSTEMS, MAGNETIC RESONANCE
NUCLEAR MAGNETIC RESONANCE IN LIQUID GALLIUM ALLOYS 67-05 M16-69785

BINARY SYSTEMS, MECHANICAL PROPERTIES
PRECIPITATION HARDENING IN BCC BINARY ALLOYS. PROGRESS REPORT TO MARCH 1966 67-04 M10-68160
ANELASTICITY MEASUREMENTS IN THE MG-CD ALLOY SYSTEM 67-04 M17-66535
AN INTERPRETATION OF THE SUPERPLASTICITY PHENOMENON IN TWO-PHASE ALLOYS 67-06 M17-71075
FAULTING IN COLD WORKED TA-10 PER CENT RE AND W-20 PER CENT RE 67-06 M17-71086
THE MECHANICAL PROPERTIES OF THREE GAMMA BRASS TYPE INTERMEDIATE PHASES--GAMMA CUZN, GAMMA AGZN, AND GAMMA CUCD 67-12 M17-82864
HOT HARDNESS BEHAVIOR OF IRON-CHROMIUM ALLOYS 67-12 M17-83061

BINARY SYSTEMS, MELTING
THE EFFECT OF AN ELECTRIC FIELD UPON SOLUTE REDISTRIBUTION DURING SOLIDIFICATION OF BI-SN ALLOYS 67-12 M14-82968

BINARY SYSTEMS, METALLOGRAPHY
SURFACE PREPARATION AND ITS EFFECT ON THE RESULTS OF ELECTRON-BEAM MICROANALYSIS 67-01 M13-58336

BINARY SYSTEMS, MICROSTRUCTURE
DESEGREGATION AND RESEGREGATION AS OBSERVED BY HIGH-TEMPERATURE MICROSCOPY 67-05 M14-68587
INVESTIGATIONS OF SURFACES OF THE BINARY SYSTEM TA-FE BY MEANS OF AN EMISSION ELECTRON MICROSCOPE 67-06 M13-70995
LAYER STRUCTURE OF CODEPOSITED MN-AL ALLOY FILM 67-11 M13-80819
THE MICROSTRUCTURE AND CRYSTALLOGRAPHY OF THE ALUMINUM-GERMANIUM EUTECTIC 67-12 M13-82731

BINARY SYSTEMS, MOSSBAUER EFFECT
MOSSBAUER IRON SPECTRA IN THE EPSILON-PHASE HOMOGENEITY REGION OF THE IRON-SILICON SYSTEM 67-06 M16-72373

BINARY SYSTEMS, OXIDATION
MICROANALYSIS OF OXIDIZED MOLTEN IRON ALLOYS 67-04 M19-67269

BINARY SYSTEMS, PHASE DIAGRAM REACTIONS
STRUCTURE AND PROPERTIES OF COMPOUNDS FORMED BY ALUMINA AND OXIDES OF THE ELEMENTS OF GROUP 2-B 67-04 M14-66311
PHASE EQUILIBRIA IN THE SYSTEM CAO-YB2O3 67-04 M14-67324

BINARY SYSTEMS, PHASE DIAGRAMS
THE VANADIUM-OSMIUM ALLOYS 67-01 M13-57293
METASTABLE DIAGRAM OF PHASE COMPOSITION OF TITANIUM-CHROMIUM ALLOYS 67-01 M13-57312
INVESTIGATION OF RARE-EARTH METAL SINGLE CRYSTALS AND ALLOYS 67-01 M13-58084
X-RAY AND THERMOGRAPHIC INVESTIGATION OF ALLOYS IN THE SB2TE3-SB2SE3 SYSTEM 67-01 M13-58147
X-RAY INVESTIGATION OF THE SB2S3-BI2TE3 SYSTEM 67-01 M13-58148
PROBLEM OF THE STRUCTURE OF ALLOYS IN THE TI-FE AND TI-CR-FE SYSTEMS 67-01 M13-58188
CLASSIFICATION OF BINARY DIAGRAMS OF ALUMINUM ALLOYS 67-01 M13-58367
PHASE DIAGRAMS. PT. 2 67-01 M13-58505
THE PARTIAL LEAD-SELENIUM --0 TO 76 AT. PER CENT SE -- PHASE DIAGRAM 67-01 M14-57424
PREPARATION AND PROPERTIES OF ALUMINUM BORIDES 67-02 M05-62111
THE QUASIBINARY SYSTEM INTI-INBI 67-02 M13-59441
INTERACTION OF RUTHENIUM WITH TANTALUM

67-02 M13-59665
INVESTIGATION OF THE EQUILIBRIUM DIAGRAM OF TITANIUM-RICH ALLOYS IN THE TI-AL SYSTEM
67-02 M13-59837
PHASE DIAGRAMS OF THE TI-P SYSTEM
67-02 M13-59839
PHASE EQUILBRIUM DIAGRAM AND PROPERTIES OF ALUMINUM-SCANDIUM ALLOYS 67-02 M13-60744
STATE DIAGRAM OF THE CHROMIUM-GERMANIUM SYSTEM
67-02 M13-62182
INTERMETALLIC COMPOUNDS IN THE RARE-EARTH METALS-ALUMINUM SYSTEMS AND SOME OF THEIR PROPERTIES
67-02 M13-62185
PHASE DIAGRAM OF THE SCANDIUM-RHENIUM SYSTEM
67-02 M13-62238
THERMODYNAMIC CALCULATION OF THE EQUILIBRIUM DIAGRAM OF THE IRON-CARBON SYSTEM
67-02 M13-62253
APPLYING THE THEORY OF REGULAR SOLUTIONS TO THE CALCULATION OF A CONSTITUTION DIAGRAM OF THE FE-C SYSTEM. PT. 2 67-02 M13-62255
REINVESTIGATION OF THE TITANIUM-RICH REGION OF THE TITANIUM-ALUMINUM EQUILIBRIUM DIAGRAM
67-02 M14-61776
ALLOY PROPERTIES ON AN ALUMINIDE BASE
67-02 M17-62180
ELECTRICAL CONDUCTIVITY AND ELECTRODE PROCESSES IN LIQUID AND SOLID THALLIUM SULFIDES AND SELENIDES
67-03 M15-65585
TH-THC PHASE DIAGRAM 67-04 M13-66274
PHASE EQUILIBRIA IN THE NB-SN SYSTEM
67-04 M13-67266
PRACTICE OF THERMODYNAMIC ANALYSIS OF BINARY SYSTEMS OF METALS WITH INTERMETALLIC BONDS
67-04 M13-67451
STUDY OF PHASE DIAGRAMS IN BINARY SYSTEMS BASED ON ISOACTIVITIES 67-04 M13-67849
STUDY OF THE MG2SN-MG2SI SYSTEM
67-04 M13-67939
THE CONSTITUTION OF SN-TL ALLOYS
67-04 M13-68125
THE RHODIUM/SELENIUM SYSTEM 67-04 M13-68150
PHASE DIAGRAM OF THE NIOBIUM-GALLIUM SYSTEM
67-05 M13-68203
INVESTIGATION OF THE GA-SE PHASE DIAGRAM
67-05 M13-68206
THE CADMIUM-SELENIUM SYSTEM 67-05 M13-68207
ON THE FUSIBILITY DIAGRAM OF THE TIN-SELENIUM SYSTEM 67-05 M13-68404
CALCULATION OF SOLIDUS CURVES IN BINARY SYSTEMS OF GERMANIUM, SILICON AND ON THE A3B5-METAL SECTIONS
67-05 M13-68405
PHASE DIAGRAM OF THE NIOBIUM-TIN SYSTEM
67-05 M13-68450
PHASE DIAGRAM OF THE MN-SI SYSTEM IN THE REGION OF HIGHER MANGANESE SILICIDE 67-05 M13-69230
INVESTIGATION OF BISMUTH ALLOYS WITH BARIUM AND BISMUTH ALLOYS WITH STRONTIUM
67-05 M13-69239
PHASE DIAGRAM OF THE MOLYBDENUM-GADOLINIUM SYSTEM
67-05 M13-69249
INTERMEDIATE PHASES IN TITANIUM ALLOYS WITH IRIDIUM AND RHODIUM 67-05 M13-69277
THE CONSTITUTION OF THE NB-ZN-O SYSTEM AT 1800 F
67-05 M13-69842
USE OF PHASE DIAGRAMS OF BINARY SYSTEMS TO CALCULATE THE HEAT OF FUSION OF THE SOLVENT
67-05 M15-69110
A STUDY OF THE IRON-RICH PORTION OF THE FE-U PHASE DIAGRAM 67-06 M13-69906
INTERACTION OF TANTALUM WITH NBRU COMPOUNDS
67-06 M13-70183
STUDY OF THE PHASE DIAGRAM OF THE NICKEL BORON SYSTEM 67-06 M13-70369
PHASE DIAGRAM OF THE NI-B SYSTEM
67-06 M13-71462
EQUILIBRIUM DIAGRAM OF THE IRON-MOLYBDENUM SYSTEM
67-06 M14-70810
CONSTITUTION OF BINARY ALLOYS OF GADOLINIUM, DYSPROSIUM, HOLMIUM AND ERBIUM WITH MANGANESE
67-06 M14-71861
LIQUID-VAPOR PHASE DIAGRAM AND THERMODYNAMICS OF THE SODIUM-BISMUTH SYSTEM 67-06 M14-72196
P-T-X PHASE DIAGRAM OF THE LEAD TELLURIDE SYSTEM
67-06 M15-72046
PHASE DIAGRAM OF THE SYSTEM TITANIUM-COPPER
67-07 M13-73279
METALLOCHEMISTRY OF MAGNIDES 67-07 M14-73273
PHASE DIAGRAM OF THE SYSTEM CHROMIUM-GERMANIUM
67-08 M13-75958
INTERMETALLIC COMPOUNDS OF RARE-EARTH METALS WITH ALUMINUM AND SOME OF THEIR PROPERTIES
67-08 M13-75961
THE YTTRIUM-LEAD ALLOY SYSTEM 67-08 M13-75966
GOLD SILICON PHASE DIAGRAM 67-08 M13-76083
PROPERTIES OF ALLOYS BASED ON THE ALUMINIDE TI3AL
67-08 M17-75956
PHASE DIAGRAM AND PROPERTIES OF ALLOYS IN THE TI2TE3-SB2TE3 SYSTEM
67-09 M13-76848
INVESTIGATION OF THE BI2S3-SB2SE3 SYSTEM
67-09 M13-76850
ON THE TIN-SULFUR FUSIBILITY CURVE
67-09 M13-76853
THE VANADIUM-CARBON SYSTEM 67-09 M13-76939
THE LITHIUM-GERMANIUM SYSTEM 67-09 M13-76940
PHASE DIAGRAM OF THE NEODYMIUM-TELLURIDE SYSTEM, AND THE PROPERTIES OF THE PHASES
67-09 M13-76941
STUDIES OF THE BINARY SYSTEMS PLUTONIUM-GOLD PLUTONIUM-GALLIUM AND PLUTONIUM-INDIUM
67-09 M14-76321
PHASE DIAGRAMS OF PLUTONIUM WITH THE METALS OF GROUPS IIA, IVA, VIIIA AND IB
67-09 M14-76326
APPLICATION OF CHEMICAL ACTIVITY IN METALLURGY
67-11 M14-80803

BINARY SYSTEMS, PHASE TRANSFORMATIONS
THE NATURE OF THE CHEMICAL BOND IN PHASES OF THE IRON-CARBON SYSTEM 67-01 M13-58146
STUDY ON BINARY DIAGRAM OF AL-BE ALLOY
67-02 M13-61024
THE URANIUM-DIOXIDE SYSTEM OF URANIUM ABOVE 1130 C
67-02 M13-62294
DISSOLUTION OF THE PHASES IN THE NICKEL-GOLD SYSTEM DURING ISOTHERMAL ANNEALING
67-05 M14-68588
THE PHASE EQUILIBRIA AND CRYSTAL CHEMISTRY OF THE INTERMEDIATE PHASES IN THE YTTERBIUM-ANTIMONY SYSTEM 67-05 M14-68766
THE CUO-V2O5 SYSTEM 67-05 M14-68919
TRANSFORMATIONS OF INTERMETALLIC PHASES OF THE ANTIMONY-ZINC SYSTEMS 67-05 M14-69133
INVESTIGATION OF THE TRANSFORMATION BEHAVIOR OF IRON-MANGANESE ALLOYS BY DAMPING MEASUREMENTS IN THE REGION OF 1 CYCLE/SEC 67-06 M14-70259
ANTIPHASE BOUNDARIES AND DOMAINS
67-07 M13-73674
THE GAMMA LOOP IN THE FE-AL SYSTEM
67-07 M13-74175
CRYSTALLOGRAPHIC TRANSFORMATIONS
67-07 M14-73682
TRANSFORMATIONS AND STRUCTURES IN THE URANIUM-RHENIUM SYSTEM. PT. 3. FORMATION AND STRUCTURE OF DELTA --U2RE--
67-07 M14-74231
THERMODYNAMIC PROPERTIES 67-07 M15-73663
THE ALPHA-GAMMA EQUILIBRIUM IN FE-MN, FE-MO, FE-NI, FE-SB, FE-SN AND FE-W SYSTEMS
67-08 M13-75813
PHASE TRANSFORMATION OF FE-CR BINARY SYSTEM AT ABOUT 500 C 67-08 M14-74404
THE IRON-TANTALUM SYSTEM 67-10 M13-78336
THE CONSTITUTION OF BINARY MOLYBDENUM-CARBON ALLOYS
67-11 M13-81352
ON THE MARTENSITIC TRANSFORMATION IN TINI
67-11 M14-80104
THE PHASE TRANSFORMATIONS OF CHROMIUM-PALLADIUM ALLOYS IN SOLID STATE 67-12 M13-82055
STUDY OF THE URANIUM-HYDROGEN SYSTEM AT ELEVATED PRESSURES 67-12 M13-82597
YTTERBIUM-LEAD SYSTEM 67-12 M13-82851
INVESTIGATION OF THE PHASE TRANSFORMATION KINETICS IN THE COPPER OXIDE-SILICON OXIDE SYSTEM
67-12 M14-82110
THE DENDRITE-EUTECTIC TRANSITION
67-12 M14-82863
A RESISTOMETRIC STUDY OF PHASE EQUILIBRIA AT LOW TEMPERATURES IN THE VANADIUM-HYDROGEN SYSTEM
67-12 M15-82752

BINARY SYSTEMS, PHASES /STATE OF MATTER/
OXIDATION-REDUCTION DIAGRAM 67-01 M14-58368
NEW PHASE IN THE MERCURY-INDIUM SYSTEM
67-01 M14-58534
INVESTIGATION OF THE PBTE-SB2TE3 SYSTEM
67-02 M13-58870
PRODUCTION OF RARE EARTH SILICIDES BY ARC MELTING 67-02 M13-59882
CONTRIBUTION TO THE EQUILIBRIUM DIAGRAM OF THE

SYSTEM MERCURY-INDIUM 67-02 M13-60615
THE METAL RICH PARTS OF THE SYSTEMS TA-C, NB-C AND V-C 67-02 M14-60120
NEW PHASES IN THE ZR-P AND ZR-AS SYSTEMS 67-03 M13-65690
THE EQUILIBRIUM DIAGRAM OF THE SYSTEM NIOBIUM-NICKEL 67-03 M14-65125
THE BINARY SYSTEMS SR-IN AND BA-IN 67-04 M13-66159
PHASE DIAGRAMS OF SYSTEMS OF HYDROGEN WITH TITANIUM, ZIRCONIUM, VANADIUM AND NIOBIUM 67-04 M13-66824
FORMATION AND GROWTH OF INTERMETALLIC COMPOUNDS IN THE CU-ZN SYSTEM 67-04 M14-66014
THE THALLIUM-INDIUM SYSTEM AT ELEVATED PRESSURES AND TEMPERATURES 67-04 M14-66050
STUDY OF THE VANADIUM-CARBON AND VANADIUM-CHROMIUM-CARBON SYSTEMS 67-04 M14-67199
LAVES PHASES IN THE SCANDIUM-IRON SYSTEM 67-05 M13-68593
MISCIBILITY OF METALS WITH SALTS. PT. 7. THE POTASSIUM-POTASSIUM SULFIDE SYSTEM 67-05 M13-69031
CRYSTAL STRUCTURE OF SM5GE4 67-05 M13-69090
THE HYDROGEN-PALLADIUM SYSTEM. THE ROLE OF X-RAY AND NEUTRON DIFFRACTION STUDIES 67-05 M14-69283
LAVES PHASES IN THE SCANDIUM-IRON SYSTEM 67-06 M13-70907
PHASE DIAGRAMS OF THE TH-PR AND TH-ND SYSTEMS 67-06 M14-69991
PHASE STUDIES IN THE PSEUDOBINARY SYSTEM UN-UP 67-06 M14-71161
ISOLATION OF THE ZETA PHASE IN THE SYSTEM TANTALUM-CARBON 67-06 M14-71168
INVESTIGATIONS ON THE BINARY SYSTEMS OF MANGANESE WITH YTTRIUM, SAMARIUM, GADOLINIUM, DYSPROSIUM, HOLMIUM, AND ERBIUM USING THE AMALGAM PROCESS 67-06 M14-71667
BERYLLIUM-RICH END OF FIVE BINARY SYSTEMS 67-07 M13-73742
THE SYSTEM MNSE-MNS 67-07 M14-72830
LIQUIDUS IN THE ALUMINA-RICH SYSTEM LA2O3-AL2O3 67-07 M14-72832
PHASE RELATIONS AND THERMOELECTRIC PROPERTIES OF THE ALLOY SYSTEMS, SNTE-BI2TE3 AND PBTE-SB2TE3 67-07 M14-73462
SOLID-STATE EQUILIBRIA IN THE IRON-NICKEL SYSTEM 67-07 M14-73567
CONSTITUTION OF ALLOYS 67-08 M13-74803
RARE-EARTH-SB AND -BI COMPOUNDS WITH THE GD4BI3 --ANTI-TH3P4-- STRUCTURE 67-08 M13-75291
TUNGSTEN-COBALT SYSTEM FOR COMPOSITIONS TO 85 ATOMIC PER CENT COBALT 67-08 M13-75309
PHASE DIAGRAM OF THE W-B SYSTEM 67-08 M13-75434
RESEARCH INTO ZR-C SYSTEM ALLOYS 67-08 M13-75462
THE STRUCTURES OF THE BI-SN, BI-PB AND BI-TL EUTECTICS 67-08 M13-76053
THE TIN-IRON SYSTEM. PT. 1. THE PHASE DIAGRAM LIQUIDUS BOUNDARIES 67-08 M13-76062
QUENCHED STRUCTURE AND TEMPERING PROCESS OF IRON-NITROGEN BINARY ALLOYS 67-08 M14-74416
ALLOYING BEHAVIOR OF SILVER AND ITS PRINCIPAL BINARY ALLOYS 67-08 M14-75625
THE CRYSTAL STRUCTURES OF COMPOUNDS IN THE SCANDIUM-ZINC SYSTEM 67-09 M13-76938
INVESTIGATION OF TRANSFORMATIONS IN THE SOLID STATE IN ALLOYS OF THE CHROMIUM-MANGANESE SYSTEM 67-09 M13-76964
ON THE EXISTENCE OF A NEW PHASE IN THE CHROMIUM-SULFUR SYSTEM--CHROMIUM POLYSULFIDE CR2S5 67-09 M13-77681
LATTICE PARAMETERS OF IRON-RICH IRON-GALLIUM ALLOYS 67-09 M13-77733
PHASE DIAGRAM OF THE PEUDO-BINARY SYSTEM AG2TE-IN2TE3 AND SEMICONDUCTING PROPERTIES OF AGIN9TE14 67-09 M13-77899
THE SYSTEM PLATINUM-GERMANIUM 67-09 M13-78137
PHASE EQUILIBRIA STUDIES ON THE ALUMINIUM-PLUTONIUM SYSTEM 67-09 M14-76322
THERMODYNAMIC AND PHASE STUDIES FOR PLUTONIUM AND URANIUM-PLUTONIUM OXIDES WITH APPLICATION TO COMPATIBILITY CALCULATIONS 67-09 M14-76349
PHASE RELATIONS IN THE ZRO2-MGO SYSTEM 67-09 M14-76751
THE TEMPERATURE OF THE EUTECTIC TRANSFORMATION IN THE IRON-COPPER SYSTEM 67-09 M14-77352
THE HAFNIUM-CARBON PHASE DIAGRAM 67-09 M14-77690
THE ALUMINUM BRONZES IN WELDED STRUCTURES 67-09 M14-77973
STUDY OF ALLOYS BELONGING TO THE ZIRCONIUM-CARBON SYSTEM 67-10 M01-79627
ELECTRON-DIFFRACTION STUDY OF THE PB2BI2SE5 STRUCTURE 67-10 M13-79355
NEUTRON DIFFRACTION ANALYSIS OF FE-CO ATOMIC FERROMAGNETIC SUPERLATTICES 67-10 M13-79916
THE EQUILIBRIUM DIAGRAM OF THE FE-GA BINARY SYSTEM 67-10 M13-80028
STRUCTURAL STUDY OF NIOBIUM-IRON ALLOYS 67-10 M14-78481
STUDY OF ALLOYS IN THE NIOBIUM-ZINC SYSTEM 67-10 M14-79630
PHASE DIAGRAM OF THE UC-W SYSTEM AND DIFFUSION OF URANIUM FROM URANIUM CARBIDE INTO TUNGSTEN 67-10 M14-79636
PRODUCTION OF NEW PHASES BY ULTRARAPID QUENCHING OF LIQUID ALLOYS 67-11 M10-80246
SIGNIFICANCE OF THE DISTRIBUTION COEFFICIENT IN THE REFINING OF IRON 67-11 M13-80212
STUDIES OF PSEUDO-BINARY LAVES-PHASE SYSTEMS CONTAINING LANTHANIDES. PT. 1. CONSTITUTION AND MAGNETIC PROPERTIES OF THE GDAL2-GDFE2, GDAL2-GDCO2 AND ERCO2-ERAL2 SYSTEMS 67-11 M13-80314
THE PHASE DIAGRAM AND PHASE TRANSITION OF THE V2O3-V2O5 SYSTEM 67-11 M13-81688
CONNECTION BETWEEN THE SHAPE OF THE PHASE DIAGRAM AND THAT OF THE SURFACE TENSION AND ADSORPTION ISOTHERMS IN BINARY SYSTEMS OF METALS AND SEMICONDUCTORS 67-11 M14-80165
THE CONSTITUTION OF ALLOYS OF GOLD AND MERCURY 67-11 M14-80305
PHASE RELATIONS AND INTERMETALLIC COMPOUNDS IN THE LANTHANUM-COBALT SYSTEM 67-11 M14-80306
NEW PHASES IN THE VANADIUM-IRIDIUM SYSTEM AND A TENTATIVE CONSTITUTION DIAGRAM 67-11 M14-80311
PHASE RELATIONS IN THE ZINC-RICH PORTION OF THE PLUTONIUM-ZINC SYSTEM 67-11 M14-80316
THE QUASI-BINARY SECTIONS SB2TE3-IN2TE3, BI2TE3-IN2TE3 AND SB2SE3-IN2SE3 67-11 M14-80381
POSSIBLE RELATIONSHIP BETWEEN PHASE-DIAGRAM AND SOME VACANCY CHARACTERISTICS IN BINARY ALLOYS 67-11 M14-81260
HIGH-TEMPERATURE VAPORIZATION STUDIES BY MASS SPECTROMETRY. PT. 2. THE SAMARIUM-CARBON SYSTEM 67-11 M15-80303
THE EUROPIUM-LEAD SYSTEM 67-12 M13-81827
CONSTITUTION DIAGRAM OF THE NIOBIUM-ANTIMONY SYSTEM 67-12 M13-82167
PHASE DIAGRAM OF THE SYSTEM MNO-AL2O3 AND THE THERMODYNAMIC PROPERTIES OF MNAL2O4 67-12 M13-82407
STUDY OF THE CORRELATION BETWEEN THE LIQUIDUS OF EQUILIBRIUM DIAGRAMS OF PHASES OF BINARY METALLIC SYSTEMS AND THE THERMOCHEMICAL DATA CONCERNING THE LIQUID STATE 67-12 M13-82472
PHASE RELATIONS AND THERMODYNAMIC PROPERTIES FOR THE SAMARIUM-ZINC SYSTEM 67-12 M13-82577
PHASE DIAGRAM OF THE SYSTEM NICKEL-BORON 67-12 M13-82783
THE PLUTONIUM-LANTHANUM SYSTEM 67-12 M13-82868
CONSTITUTION OF A PORTION OF THE NIOBIUM -- COLUMBIUM---NITROGEN SYSTEM 67-12 M13-82960
THERMODYNAMIC STUDY OF THE MERCURY-TIN SYSTEM 67-12 M13-83104
X-RAY EXAMINATION OF THE TA-CO SYSTEM 67-12 M13-83143
DETERMINATION OF THE THERMODYNAMIC PROPERTIES AND THE EQUILIBRIUM PHASE DIAGRAM OF THE AU-AL SYSTEM 67-12 M13-83199
ON THE BISMUTH-ANTIMONY SYSTEM 67-12 M13-83321
STUDY OF THE SB2SE3-BI2FE3, SB2TE3-BI2SE3 SYSTEMS 67-12 M13-83323
INVESTIGATION OF THE PBSE-GESE AND GESE-GETE SYSTEMS 67-12 M13-83352
PHASE DIAGRAM OF THE VANADIUM-GALLIUM SYSTEM 67-12 M13-83355
STUDY OF BISMUTH-TIN ALLOYS IN THE SOLID AND LIQUID STATES IN RELATION TO THE PHASE DIAGRAM 67-12 M13-83360
PHASE DIAGRAM OF THE ALLOY SYSTEM HGTE-CDTE 67-12 M14-82002
ANALYSIS OF THE THERMODYNAMIC PROPERTIES OF SOLID LEAD-BISMUTH-ALLOYS 67-12 M14-82051

REACTION DIFFUSION AND KIRKENDALL-EFFECT IN THE NICKEL-ALUMINUM SYSTEM 67-12 M14-82757
METASTABLE INDIUM-BISMUTH PHASES PRODUCED BY RAPID QUENCHING 67-12 M14-82866

BINARY SYSTEMS, PHYSICAL PROPERTIES
SOLUBILITY OF GASES IN REFRACTORY METALS AND PRECIPITATION FROM SUPERSATURATED SOLID SOLUTIONS 67-04 M14-67547
STUDY OF THE ELECTROCONDUCTIVITY AND VISCOSITY OF MELTS IN THE BI-SE, BI-TE AND SB-TE SYSTEMS 67-04 M15-66867
SOLUBILITY OF GALLIUM IN SOLID TIN 67-06 M13-70105
THE VISCOSITY OF FUSIBLE GA-CD, GA-HG AND GA-BI DECOMPOSITION SYSTEMS 67-07 M15-72728
THERMOCHEMICAL INVESTIGATIONS ON THE SYSTEM NAF-ALF3 67-07 M15-73879
THE DECOMPOSITION OF TUNGSTEN-CHROMIUM SOLID SOLUTION 67-07 M15-73905
ORIGINS OF SURFACE TENSION EXTREMA IN METALLIC SOLUTIONS 67-09 M15-77919
THE PHYSICAL AND ELECTRONIC PROPERTIES OF SEMICONDUCTING SOLID SOLUTIONS OF THE CD3AS2-ZN3AS2 SYSTEM 67-09 M15-78254
THERMODYNAMIC PROPERTIES OF THE TWO-PHASE REGION OF CONSTANT-COMPOSITION BINARY SOLUTIONS 67-10 M15-79250
PROPERTIES OF IODIDE-TYPE HAFNIUM AND ALLOYS IN THE ZIRCONIUM-HAFNIUM SYSTEM 67-10 M17-79628
THERMAL DIFFUSIVITY AND ELECTRICAL CONDUCTIVITY OF ALLOYS OF THE COPPER-ANTIMONY SYSTEM IN THE LIQUID STATE 67-11 M15-80654
VAPOR PRESSURE OF METAL HALIDES. THE SNCL2-ZNCL2 BINARY SYSTEM 67-11 M15-80761
THERMODYNAMICS OF FERRITIC SOLUTIONS OF THE IRON-ZINC SYSTEM AT 700 TO 900 C 67-11 M15-81332
ACTIVITIES OF CHROMIUM AND TITANIUM IN BINARY CHROMIUM-TITANIUM ALLOYS 67-11 M15-81340
SURFACE TENSION AND DENSITY OF LIQUID NI-GA ALLOYS AND THE WETTABILITY OF AL2O3 BY THEM 67-12 M15-82171
THE INFLUENCE OF DISPLACEMENT REACTIONS ON THE ELECTROCHEMICAL DETERMINATION OF THE ACTIVITY COEFFICIENT OF ONE CONSTITUENT IN A BINARY ALLOY 67-12 M15-82593
INVESTIGATION OF THE CR-SI SYSTEM IN THE DISILICIDE REGION 67-12 M16-82684

BINARY SYSTEMS, POWDER METALLURGY
MECHANISM OF LIQUID PHASE SINTERING IN THE IRON-COPPER SYSTEM 67-08 M09-75389

BINARY SYSTEMS, PRECIPITATION
PRE-PRECIPITATION AND PRECIPITATION PHENOMENA IN THE AL-ZN SYSTEM 67-04 M14-66534

BINARY SYSTEMS, REACTIONS /CHEMICAL/
CONTROLLED EUTECTICS 67-04 M14-67902
INTERACTION OF ELEMENTS OF THE PERIODIC TABLE 67-07 M14-72510
THE REACTIVITY OF LIQUID METALS 67-08 M14-75555
MONOXIDE-TYPE COMPOUNDS OF URANIUM AND PLUTONIUM. PT. 1. OXYCARBIDES 67-09 M14-76755
INTERACTION BETWEEN ELEMENTS IN THE PERIODIC TABLE 67-11 M06-80896
THERMAL DECOMPOSITION OF NICKEL CARBIDE --REACTIVITY OF NICKEL WITH CO IN THE PRESENCE OF FREE CARBON-- 67-12 M14-82696
THERMODYNAMICS OF IRON-PLATINUM ALLOYS 67-12 M15-82751

BINARY SYSTEMS, SOLIDIFICATION
AUGMENTED NATURAL CONVECTION AND EQUIAXED GRAIN STRUCTURE IN CASTING 67-01 M06-57427

BINARY SYSTEMS, SOLUBILITY
INVESTIGATION OF THE BI2S3-SB2TE3 SYSTEM 67-04 M13-66011
STRUCTURAL CHARACTERISTICS OF SOLID SOLUTIONS CRSI2-VSI2 AND CRSI2-TISI2 67-04 M13-66264
STRUCTURAL CHARACTERISTICS OF SOLID SOLUTIONS OF CHROMIUM DISILICIDE WITH VANADIUM AND TITANIUM DISILICIDES 67-10 M13-78996
GROWTH OF THE SOLID-LIQUID REGION DURING ONE-DIMENSIONAL SOLIDIFICATION OF BINARY ALLOYS. PT. 1 67-12 M14-82745
HYDROGEN SOLUBILITY IN ALPHA TI-O ALLOYS 67-12 M14-82747
THE NITRIDING OF CHROMIUM IN N2-H2 GAS MIXTURES AT ELEVATED TEMPERATURES 67-12 M14-82764

BINARY SYSTEMS, SPECTRA
EFFECT OF ALLOYING ON THE ALUMINUM K AND IRON L X-RAY EMISSION SPECTRA IN THE ALUMINUM-IRON BINARY SYSTEM 67-05 M16-69219

BINARY SYSTEMS, SUPERCONDUCTIVITY
TRANSITION TEMPERATURE AND COMPOSITION OF THE SUPERCONDUCTING NB3SN-PHASE 67-05 M16-69092
ON THE SUPERCONDUCTIVITY OF HF-RH ALLOYS 67-05 M16-69342
SUPERCONDUCTIVITY IN THE ALLOY SYSTEM INDIUM-THALLIUM 67-05 M16-69519
SUPERCONDUCTING TRANSITIONS IN BODY-CENTERED CUBIC THALLIUM-INDIUM ALLOYS 67-05 M16-69520
THE RELATION OF SHAPE OF THE HOMOGENEITY FIELD 67-06 M16-70319
SUPERCONDUCTIVITY OF THE TRANSITION-METAL CARBIDES 67-10 M16-78733
TRANSITION TEMPERATURE OF PB-IN AND PB-TL ALLOYS 67-11 M16-80720

BINARY SYSTEMS, SURFACE PROPERTIES
THE DENSITY AND SURFACE TENSION ISOTHERMS OF MANGANESE-SILICON MELTS 67-02 M15-62211

BINARY SYSTEMS, THERMAL PROPERTIES
DILATOMETRIC INVESTIGATIONS OF BINARY ALLOYS IN THE AL-ZN SYSTEMS 67-05 M15-69054
PHASE EQUILIBRIA IN THE CD-SE SYSTEM 67-06 M14-72174
THE HEAT OF MIXING OF SB WITH B-METALS. PT. 2. THE IN-TL SYSTEM 67-06 M15-71599
OXIDATION RESISTANCE OF ALLOYS BASED ON TUNGSTEN AND NIOBIUM SILICIDES 67-07 M15-73280
HEAT OF MIXING OF ANTIMONY WITH B-METALS. PT. 3. THE SYSTEM WITH TIN AND LEAD 67-10 M15-78741
STUDY OF THE LIQUIDUS RELATIONS IN EQUILIBRIUM DIAGRAMS FOR PHASES WITH A DEFINITE COMPOSITION APPLICATION TO THE ESTIMATION OF THE LATENT HEAT OF FUSION 67-12 M13-82697
THERMODYNAMIC PROPERTIES OF SOLID MAGNESIUM-NICKEL ALLOYS 67-12 M15-82420
A CALORIMETRIC INVESTIGATION OF THE BISMUTH-RICH REGION OF THE SYSTEM BISMUTH-SELENIUM 67-12 M15-82570
THERMODYNAMIC PROPERTIES OF THE CALCIUM-ZINC SYSTEM 67-12 M15-82575
THERMODYNAMICS OF FORMATION OF BINARY RARE EARTH-MAGNESIUM PHASES WITH CSCL-TYPE STRUCTURES 67-12 M15-82848
THERMODYNAMIC PROPERTIES OF LIQUID MAGNESIUM-SILICON ALLOYS. DISCUSSION OF THE MG-GROUP IVB SYSTEMS 67-12 M15-82850

BINARY SYSTEMS, THERMODYNAMICS
THERMOCHEMICAL INVESTIGATION OF ALLOYS OF THE TI-AL SYSTEM IN THE REGION OF THE ALPHA-SOLID SOLUTION 67-01 M15-58098
THE NATURE OF INTERACTION BETWEEN COMPONENTS IN THE GAMMA AND GAMMA PRIME PHASE OF THE NI-AL, NI-AL-CR, NI-AL-CO AND NI-AL-FE SYSTEMS 67-02 M14-58983
CALORIMETRIC DETERMINATION OF SOLUTE-SOLUTE INTERACTIONS IN SOME DILUTE TIN-RICH LIQUID ALLOYS 67-02 M15-59428
A CALORIMETRIC INVESTIGATION OF LIQUID GOLD-TIN ALLOYS 67-02 M15-60647
PROPERTIES OF THE FREE ENERGY ASSOCIATED WITH THE INTERDIFFUSION OF TWO SOLIDS 67-04 M15-66064
THERMODYNAMIC PROPERTIES OF URANIUM CARBIDES 67-06 M15-70888
CONCENTRATION DEPENDENCES OF ELASTIC CONSTANTS AND DEBYE TEMPERATURES FOR BINARY ALLOYS 67-07 M15-72404
MEASUREMENTS OF VAPOR PRESSURE FOR NAF3-ALF3 AND 67-07 M15-73878
THERMODYNAMICS OF BINARY METALLIC SOLUTIONS 67-09 M15-77726
INVESTIGATION OF THE THERMODYNAMIC PROPERTIES OF THE GALLIUM-MERCURY AND GALLIUM-ZINC SYSTEMS 67-10 M15-78671

BINARY SYSTEMS, TRANSPORT PROPERTIES
EFFECT OF THE TEMPERATURE ON THE CHANGE IN THE CONCENTRATION OF CONDUCTION ELECTRONS IN BISMUTH DUE TO THE PRESENCE OF ELEMENTS OF THE 4 AND 6 GROUPS 67-04 M16-67052
INVESTIGATION OF ELECTRIC TRANSPORT AND DIFFUSION IN INDIUM-ANTIMONY SYSTEMS 67-05 M15-69260
INFLUENCE OF ORDERING ON THE PROPERTIES OF SOLID SOLUTIONS OF THE SYSTEM --HGSE--3X---IN2SE3--1-X 67-06 M16-70982
ELECTRICAL RESISTANCE AND ELECTRICAL TRANSPORT IN THE BI-ZN SYSTEM AT 700 C 67-08 M15-74644
DOUBLE INVERSION OF ELECTRIC TRANSPORT IN THE AL-ZN SYSTEM IN LIQUID STATE 67-08 M15-74645

BINARY SYSTEMS
ELECTRONIC PROCESS IN GAMMA IRON TELLURIDE 67-08 M15-75919
BINARY SYSTEMS, X RAY ANALYSIS
A DIFFUSION STUDY IN THE TITANIUM-SILVER SYSTEM 67-04 M14-67265
A GENERALLY APPLICABLE X-RAY FLUORESCENCE ANALYSIS PROCEDURE 67-07 M19-72678
BINDERS /ADHESIVES/
SOME ASPECTS OF THE PROBLEMS POSED BY THE USE OF CEMENT-BONDED SAND IN STEEL FOUNDRIES 67-09 M06-77836
BINDING ENERGY /NUCLEAR/
COMPRESSIBILITY AND BINDING ENERGY OF THE SIMPLE METALS 67-07 M15-73942
VACANCY CLUSTERS IN ALPHA-IRON 67-08 M13-74658
LEAST-SQUARE DETERMINATION OF THE BINDING ENERGY OF A DIVACANCY IN PLATINUM FROM THE ISOTHERMAL ANNEALING CURVES 67-08 M16-75824
THE DETERMINATION OF ELECTRON BINDING ENERGIES IN PLUTONIUM WITH PHOTO-ELECTRON SPECTROSCOPY 67-09 M16-76320
NUCLEAR QUADRUPOLE COUPLING, KNIGHT SHIFT, AND SPIN-LATTICE RELAXATION TIME IN BERYLLIUM METAL 67-09 M16-77161
DETERMINATION OF SOLUTE ATOM-VACANCY BINDING ENERGY IN AL-MN 1.04 PER CENT DILUTE ALLOY 67-09 M16-77598
THE CALCULATION OF VACANCY CONCENTRATIONS IN DISPERSION-HARDENED ALUMINUM ALLOYS 67-10 M13-78319
ELECTRON BINDING ENERGIES IN TRANSITION METALS 67-10 M16-79703
INFLUENCE OF ENTROPY IN PHASE STABILIZATION 67-11 M14-81103
BINDING ENERGIES AND ENTROPIES OF MULTIPLE VACANCIES IN FCC METALS 67-11 M16-81121
BINDING ENERGY /NUCLEAR/, ALLOYING EFFECTS
THE AGING PHENOMENA AND LATTICE DEFECTS IN ALUMINIUM ALLOYS. INFLUENCE OF THE THIRD ADDITIONAL ELEMENTS ON THE FORMATION OF GP ZONES IN AL-ZN ALLOY 67-08 M14-75766
BIREFRINGENCE
ON THE BIREFRINGENCE OF SIMPLE RHOMBOHEDRAL BORON 67-01 M15-58419
BISMUTH, ACOUSTIC PROPERTIES
DETERMINATION OF THE ENERGY BAND PARAMETERS OF BISMUTH BY GIANT QUANTUM ATTENUATION OF SOUND WAVES 67-04 M16-66799
BISMUTH, ALLOYING ADDITIVE
SURFACE TENSION OF IRON WITH VARIOUS CARBON EQUIVALENTS AND EFFECT OF BISMUTH ADDITION 67-02 M15-61232
SUPERPLASTIC BEHAVIOR OF A SOLID-SOLUTION SN-1 PER CENT BI ALLOY 67-03 M17-65096
THE INFLUENCE OF ALLOYING ELEMENTS ON ALUMINUM ANODES IN SEA WATER 67-03 M18-65473
SURFACE TENSION OF CAST IRONS WITH DIFFERENT CARBON EQUIVALENTS AND THE INFLUENCE THEREON OF BISMUTH ADDITIONS 67-04 M15-68093
THE PENETRATION OF BI INTO THE GRAIN BOUNDARIES OF CU 67-04 M17-67079
PRODUCTION OF PEARLITIC MALLEABLE CAST IRON WITH ADDITIONS OF BISMUTH AND BORON 67-05 M06-68459
REACTION RATE OF SULFUR WITH LEAD 67-05 M14-69476
CURRENT-CARRYING PROPERTIES OF SUPERCONDUCTING LEAD-BISMUTH ALLOYS 67-06 M15-72261
COMBINED ACTION OF SURFACE-ACTIVE AGENTS ON THE NUMBER OF GRAPHITIZATION NUCLEI IN CUPOLA MELTED MALLEABLE IRON 67-08 M14-74546
THERMOELECTROMOTIVE FORCE OF ZINC-BISMUTH ALLOYS 67-11 M15-80738
THE CORROSION BEHAVIOR OF PB AND PB ALLOYS IN BOILING SULFURIC ACID 67-11 M18-81032
EFFECT OF CURRENT DENSITY ON FIELD-FREEZING EXPERIMENTS 67-12 M14-82982
THE MAGNETIC AND CRYSTALLOGRAPHIC PROPERTIES OF MNBI STUDIED BY NEUTRON DIFFRACTION 67-12 M15-83489
EFFECT OF SB, BI AND B ON THE PROPERTIES OF MALLEABLE CAST IRON 67-12 M17-81987
BISMUTH, ATOMIC PROPERTIES
ON THE ELECTRONIC STRUCTURE OF BISMUTH AND ITS DILUTE ALLOYS 67-08 M16-74430
BISMUTH, ATOMIC STRUCTURE
THE STRUCTURE OF MOLTEN BI AT 325 AND 750 C 67-11 M16-80870
BISMUTH, BAND THEORY
QUANTUM OSCILLATIONS DUE TO HIGHER LYING ELECTRON BANDS IN BISMUTH 67-03 M16-65144
ELECTRON-HOLE RECOMBINATION IN BISMUTH BELOW 20 K 67-03 M16-65916
GALVANOMAGNETIC STUDIES OF SN-DOPED BI 67-04 M16-66795
SOFT X-RAY ABSORPTION SPECTRA OF METALS AND ALLOYS. PT. 1. BE, AL, SB, BI AND AL-MG ALLOYS 67-04 M16-67473
ABSORPTION MEASUREMENTS OF COPPER, SILVER, TIN, GOLD AND BISMUTH IN THE FAR ULTRAVIOLET 67-11 M16-80771
BISMUTH, BINARY SYSTEMS
THE QUASIBINARY SYSTEM INTI-INBI 67-02 M13-59441
THE STUDY OF FUSING OF VARIOUS ALLOYS MADE BY MEANS OF X-RAY FLUORESCENCE ANALYSIS 67-02 M14-60122
DIFFUSION OF SILVER IN MOLTEN LEAD-BISMUTH AND TIN-BISMUTH ALLOYS 67-03 M14-65848
INVESTIGATION OF THE BI2S3-SB2TE3 SYSTEM 67-04 M13-66011
STUDY OF THE ELECTROCONDUCTIVITY AND VISCOSITY OF MELTS IN THE BI-SE, BI-TE AND SB-TE SYSTEMS 67-04 M15-66867
INVESTIGATION OF THE TEMPERATURE DEPENDENCE OF THE RESISTIVITY AND THERMO-EMF OF BISMUTH-CADMIUM AND BISMUTH-TIN MELTS OF EUTECTIC COMPOSITIONS 67-04 M15-67053
ELECTRICAL RESISTIVITY MEASUREMENTS OF LIQUID BINARY ALLOYS. PT. 1. BI-IN SYSTEM 67-04 M15-67518
EFFECT OF THE TEMPERATURE ON THE CHANGE IN THE CONCENTRATION OF CONDUCTION ELECTRONS IN BISMUTH DUE TO THE PRESENCE OF ELEMENTS OF THE 4 AND 6 GROUPS 67-04 M16-67052
INVESTIGATION OF BISMUTH ALLOYS WITH BARIUM AND BISMUTH ALLOYS WITH STRONTIUM 67-05 M13-69239
LIQUID-VAPOR PHASE DIAGRAM AND THERMODYNAMICS OF THE SODIUM-BISMUTH SYSTEM 67-06 M14-72196
LATTICE DYNAMICS OF THE ALLOY SYSTEMS BI-PB-TL 67-06 M16-70088
PHASE RELATIONS AND THERMOELECTRIC PROPERTIES OF THE ALLOY SYSTEMS, SNTE-BI2TE3 AND PBTE-SB2TE3 67-07 M14-73462
THE VISCOSITY OF FUSIBLE GA-CD, GA-HG AND GA-BI DECOMPOSITION SYSTEMS 67-07 M15-72728
RARE-EARTH-SB AND -BI COMPOUNDS WITH THE GD4BI3 --ANTI-TH3P4-- STRUCTURE 67-08 M13-75291
THE STRUCTURES OF THE BI-SN, BI-PB AND BI-TL EUTECTICS 67-08 M13-76053
THE STRUCTURE OF SOME EUTECTICS WITH HIGH RATIOS OF THE VOLUME FRACTIONS 67-08 M14-76054
ELECTRICAL RESISTANCE AND ELECTRICAL TRANSPORT IN THE BI-ZN SYSTEM AT 700 C 67-08 M15-74644
INVESTIGATION OF THE BI2S3-SB2SE3 SYSTEM 67-09 M13-76850
ON THE BISMUTH-ANTIMONY SYSTEM 67-12 M13-83321
STUDY OF THE SB2SE3-BI2FE3, SB2TE3-BI2SE3 SYSTEMS 67-12 M13-83323
STUDY OF BISMUTH-TIN ALLOYS IN THE SOLID AND LIQUID STATES IN RELATION TO THE PHASE DIAGRAM 67-12 M13-83360
ANALYSIS OF THE THERMODYNAMIC PROPERTIES OF SOLID LEAD-BISMUTH-ALLOYS 67-12 M14-82051
METASTABLE INDIUM-BISMUTH PHASES PRODUCED BY RAPID QUENCHING 67-12 M14-82866
THE EFFECT OF AN ELECTRIC FIELD UPON SOLUTE REDISTRIBUTION DURING SOLIDIFICATION OF BI-SN ALLOYS 67-12 M14-82968
A CALORIMETRIC INVESTIGATION OF THE BISMUTH-RICH REGION OF THE SYSTEM BISMUTH-SELENIUM 67-12 M15-82570
THE INFLUENCE OF DISPLACEMENT REACTIONS ON THE ELECTROCHEMICAL DETERMINATION OF THE ACTIVITY COEFFICIENT OF ONE CONSTITUENT IN A BINARY ALLOY 67-12 M15-82593
BISMUTH, CHEMICAL ANALYSIS
POLAROGRAPHIC DETERMINATION OF BISMUTH AND COPPER IN REFINED LEAD 67-01 M19-58732
ON THE DETERMINATION OF BI IN HIGH-ALLOY STEEL BY THE SPECTROPHOTOMETRIC METHOD 67-05 M19-69868
BISMUTH, COATINGS
STRENGTH OF BISMUTH-COATED NICKEL IN ULTRASONIC FIELD 67-06 M17-70060
STRENGTH OF NICKEL PLATED WITH BISMUTH IN AN ULTRASONIC FIELD 67-10 M17-78806

BISMUTH, CONCENTRATION /COMPOSITION/
THE DETERMINATION OF SMALL QUANTITIES OF PB AND BI IN ALNICO AND SIMILAR ALLOYS 67-09 M19-77588
BISMUTH, CORROSION
OXIDATION OF BISMUTH 67-04 M18-66541
BISMUTH, CRYSTAL GROWTH
GROWING ORIENTATED STRAIN-FREE BISMUTH SINGLE CRYSTALS OF SPECIALIZED SHAPES 67-10 M14-78673
HETEROGENEOUS NUCLEATION OF BI AND AG ON AMORPHOUS SUBSTRATES --IN SITU ELECTRON MICROSCOPY STUDIES-- 67-12 M14-83261
BISMUTH, CRYSTAL LATTICES
THE EQUILIBRIUM FORM OF A TWIN DELAYED AT AN OBSTACLE 67-02 M13-59669
ELECTRON DIFFRACTION AT LOW TEMPERATURE. PT. 2. RADIAL DISTRIBUTION ANALYSIS OF METASTABLE STRUCTURE OF METAL FILMS PREPARED BY LOW TEMPERATURE CONDENSATION 67-02 M13-60514
THE RATE OF TWIN LAYER GROWTH IN BISMUTH SINGLE CRYSTALS 67-03 M14-65228
NATURE AND MECHANISM OF DEFECT FORMATION IN ANTIMONY AND BISMUTH CRYSTALS 67-08 M13-75271
THE CRYSTAL STRUCTURE OF BISMUTH-2 AT 26 KBAR 67-09 M13-77968
INITIAL STAGE OF THE DEVELOPMENT OF TWINNING IN METAL CRYSTALS 67-10 M13-78384
LOW-ENERGY ELECTRON DIFFRACTION STUDY OF SURFACES OF ANTIMONY AND BISMUTH 67-10 M13-79547
MULTIPLICATION OF DISLOCATIONS IN ANTIMONY AND BISMUTH 67-11 M13-80733
BAND STRUCTURE OF DOPED BISMUTH USING THE SHUBNIKOV-DE HAAS EFFECT 67-11 M16-81482
BISMUTH, DIFFUSION
DIFFUSION OF CADMIUM AND TIN IN LIQUID BISMUTH 67-11 M14-81207
ELECTROTRANSPORT OF BISMUTH IN LIQUID TIN 67-11 M14-81273
BISMUTH, ELECTRICAL PROPERTIES
THEORY OF GALVANOMAGNETIC EFFECTS IN METALS OF THE BISMUTH TYPE 67-02 M15-61159
VARIATION IN THE ELECTRICAL RESISTIVITY OF BISMUTH OF DIFFERENT PURITIES ON PLASTIC DEFORMATION AND ANNEALING 67-02 M15-61163
ELECTRICAL PROPERTIES OF PURE BISMUTH AND ITS ALLOYS WITH TIN IN A WIDE TEMPERATURE RANGE 67-04 M15-66016
BEHAVIOR OF GALVANOMAGNETIC COEFFICIENTS OF BISMUTH FILMS IN THE QUANTUM SIZE REGION 67-05 M15-69100
RESTORATION OF ELECTRICAL RESISTANCE INDUCED BY PLASTIC DEFORMATION IN BISMUTH OF VARYING PURITY 67-06 M15-71379
OBSERVATIONS OF THE BI 3-4 AND BI 4-5 TRANSITIONS BY RESISTIVITY MEASUREMENTS 67-06 M15-71618
THE ISOTROPIC AND ANISOTROPIC CHANGES IN THE ELECTRICAL RESISTANCE, THERMAL EMF AND HALL FACTOR OF BISMUTH DURING ITS PLASTIC DEFORMATION 67-08 M15-75449
DE HAAS-VAN ALPHEN AND GALVANOMAGNETIC EFFECT IN BI AND BI-PB ALLOYS 67-08 M16-74666
THE ELECTRICAL RESISTANCE OF BISMUTH FROM 25 TO 90 KBARS 67-09 M15-77734
DEFORMATION OF THE FERMI SURFACE OF BISMUTH AT PRESSURES UP TO 8 KBAR 67-10 M15-79461
ELECTRICAL PROPERTIES OF BISMUTH AT TEMPERATURES FROM 300 TO 540 K 67-12 M15-82327
BISMUTH, EXTRACTION
COMMERCIAL TESTING OF A HYDRO-METALLURGICAL METHOD OF REPROCESSING COPPER-BISMUTH CONCENTRATES 67-02 M02-61604
OBTAINING A COPPER-FREE CEMENT BISMUTH FROM COPPER CONCENTRATE 67-05 M03-69532
PRODUCTION OF HIGH-QUALITY BISMUTH CONCENTRATES 67-08 M02-75085
BISMUTH, FERMI SURFACE
NEW METHODS FOR DE HAAS-SHUBNIKOV MEASUREMENTS 67-04 M16-67103
BISMUTH, IMPURITIES
EFFECT OF METAL IMPURITIES ON MECHANICAL PROPERTIES OF NICKEL IN TENSION 67-02 M17-62235
BISMUTH, INTERMETALLICS
INFLUENCE OF THE LEG SIZE AND MECHANICAL SURFACE TREATMENT ON THE THERMOELECTRIC PROPERTIES OF THERMOCOUPLES OF SB2TE3/BI2TE3 AND BI2TE3/BI2SE3 67-02 M16-60126
THE INFLUENCE OF EXCESS NONSTOICHIOMETRIC BI ON THE THERMAL CONDUCTIVITY OF CRYSTAL LATTICES OF BI2TE3, BI2TE3-SB2-TE3 AND BI2TE3-BI2S3 WITH IODINE ADDITIONS 67-03 M15-65383
NUCLEAR MAGNETIC RESONANCE IN AN INBI INTERMETALLIC COMPOUND 67-05 M16-69106
DIRECT OBSERVATION OF DOMAIN-WALL MOVEMENTS IN MNBI FILMS 67-07 M15-73557
SUPERCONDUCTING HOMOGENEOUS INTI AND PBBI FILMS EVAPORATED FROM A SINGLE SOURCE 67-08 M12-76152
THICKNESS DEPENDENCE OF KAPPA2 AND RELATED PROBLEMS FOR SUPERCONDUCTING ALLOY FILMS IN STRONG FIELDS 67-08 M16-74944
DISCREPANCIES FROM A PERFECT MATCH IN THE ETCH PATTERNS ON THE OPPOSITE CLEAVAGE FACES IN BI2TE3 67-09 M13-77447
PROPERTY VARIATIONS DUE TO SINTERING OF BI2TE3 THERMOELEMENTS MADE BY POWDER METALLURGY 67-11 M09-81068
CHANGES PRODUCED IN THERMOELECTRIC MATERIALS BY THERMAL-NEUTRON IRRADIATION 67-11 M16-80304
BISMUTH, IRRADIATION
REDISTRIBUTION OF IMPURITIES IN METALS DURING IRRADIATION AND RECOVERY 67-04 M16-67388
BISMUTH, LIQUID METALS
ELECTROMIGRATION OF CADMIUM AND INDIUM IN LIQUID BISMUTH 67-12 M14-82957
BISMUTH, MAGNETIC PROPERTIES
MAGNETOACOUSTIC ATTENUATION IN BISMUTH 67-02 M15-59475
SOME CHARACTERISTICS OF GALVANOMAGNETIC PROPERTIES OF BISMUTH 67-02 M15-59923
GALVANOMAGNETIC EFFECTS AND MAGNETIC SUSCEPTIBILITY OF TIN-DOPED BISMUTH CRYSTALS 67-05 M16-69752
SOME FEATURES OF THE GALVANOMAGNETIC PROPERTIES OF BISMUTH 67-07 M15-72578
PECULIARITIES OF THE MAGNETORESISTANCE IN BI IN HIGH TRANSVERSE AND LONGITUDINAL MAGNETIC FIELDS 67-10 M15-79022
THERMOMAGNETIC FIGURES OF MERIT OF BISMUTH AT 77 K 67-11 M15-80301
DIFFUSION SIZE EFFECT IN BISMUTH AT LIQUID HELIUM TEMPERATURES 67-11 M15-81471
BISMUTH, MECHANICAL PROPERTIES
PROBLEM OF THE INTERRELATION BETWEEN THE SPEED, TEMPERATURE AND FORCE INDICES OF HARDNESS NUMBERS 67-01 M17-58136
BISMUTH, MELTING
CALCULATING OPTIMUM CONDITIONS FOR ZONE MELTING 67-08 M03-75876
BISMUTH, MICROSTRUCTURE
FORMATION OF EXTRA-AXIAL HETEROGENEITY IN INGOTS 67-04 M13-67606
GRAIN BOUNDARY MIGRATION DURING RECRYSTALLIZATION. PT. 1. ZONE-REFINED LEAD, ZINC, TIN AND BISMUTH. PT. 2. ZONE-REFINED ALUMINUM 67-06 M14-69933
ELECTROPOLISHING OF BISMUTH IN A SATURATED SOLUTION OF SODIUM CHLORIDE 67-09 M13-77095
BISMUTH, PHASE TRANSFORMATIONS
PHASE AND ORDER TRANSITIONS DURING AND AFTER FILM DEPOSITION 67-01 M14-57121
THE INFLUENCE OF LOW-FREQUENCY VIBRATION ON THE NUCLEATION OF SOLIDIFYING METALS 67-02 M14-61840
THE ELECTRON EMISSION DURING THE MELTING AND SOLIDIFICATION OF METALS 67-05 M15-69190
A SHOCK-INDUCED PHASE TRANSFORMATION IN BISMUTH 67-08 M14-75116
THE BI 1-12 TRANSITION PRESSURE MEASURED WITH A DEAD-WEIGHT PISTON GAUGE 67-10 M14-79167
OBSERVATION OF SOLIDIFICATION AND MELTING PHENOMENA IN METALS USING THE ELECTRON MICROSCOPE 67-11 M14-81275
BISMUTH, PHASES /STATE OF MATTER/
PHASE DIAGRAM OF BISMUTH AT LOW TEMPERATURES 67-05 M13-68572
BISMUTH, PHYSICAL PROPERTIES
MOLECULAR COMPOSITION OF BISMUTH VAPOR 67-04 M15-67823
INTERNAL FRICTION AND YOUNGS MODULUS IN ANTIMONY AND BISMUTH 67-04 M15-67830
BISMUTHS UNUSUAL PROPERTIES MEET MANY SPECIAL NEEDS 67-10 M01-78623
INVESTIGATION OF THE COEFFICIENT OF ABSORPTION OF SOUND IN BISMUTH. PT. 2. GIANT OSCILLATIONS 67-11 M16-80782
BISMUTH, REACTIONS /CHEMICAL/
ELECTRODE KINETICS 67-09 M14-77011
BISMUTH, REFINING

ON THE COEFFICIENT OF EXTRACTION OF IMPURITIES INTO CONCENTRATE DURING NORMAL ORIENTED CRYSTALLIZATION 67-03 M03-65589
METHODS OF DETERMINING THE EFFECTIVE IMPURITY DISTRIBUTION COEFFICIENT ON CRYSTALLIZATION OF A MELT. PT. 2. ZONE MELTING 67-05 M03-68839
PROCESS TECHNIQUE IN THE METALLURGY OF BISMUTH 67-05 M03-69588
DETERMINATION OF THE EQUILIBRIUM COEFFICIENTS OF IMPURITY DISTRIBUTION IN BISMUTH 67-12 M03-82408

BISMUTH, SINGLE CRYSTALS
NEGATIVE RESISTANCE AND INSTABILITIES OF BISMUTH CRYSTALS IN A MAGNETIC FIELD 67-11 M15-81473

BISMUTH, SOLUBILITY
THE SOLUBILITY OF IMPURITIES IN IN2TE3 67-04 M14-66028

BISMUTH, SUPERCONDUCTIVITY
ULTRASONIC STUDIES OF THE SUPERCONDUCTIVITY OF DOPED TIN 67-02 M16-60530
ANISOTROPY OF THE ULTRASONIC ATTENUATION IN METALS 67-05 M16-69757

BISMUTH, SURFACE PROPERTIES
LIQUID METALS. PT. 7. THE SURFACE TENSION OF LIQUID BISMUTH IN PURE AND IMPURE HYDROGEN, IN OTHER GASES AND IN VACUO 67-01 M15-58653

BISMUTH, TERNARY SYSTEMS
SURFACE TENSION OF TERNARY IDEAL METALLIC SOLUTIONS 67-03 M15-65951

BISMUTH, THERMAL PROPERTIES
THE ABSOLUTE THERMOELECTRIC POWER OF LIQUID METALS 67-01 M15-57972
THERMAL CONDUCTION IN BISMUTH AT LIQUID HELIUM TEMPERATURES 67-05 M15-69095
INVESTIGATION OF THE HEAT CONDUCTIVITY OF CERTAIN METALS ON TRANSITION FROM THE SOLID TO THE LIQUID STATE 67-05 M15-69394

BISMUTH, THIN FILMS
ESTIMATION OF TEMPERATURE RISE IN ELECTRON BEAM HEATING OF THIN FILMS 67-12 M15-83274

BISMUTH, TRANSPORT PROPERTIES
QUANTUM SIZE EFFECT IN THIN BISMUTH FILMS 67-01 M15-58736
SIZE EFFECT IN THE THERMOPOWER OF BISMUTH 67-01 M16-57955
ELECTRON TRANSPORT PHENOMENA IN THIN FILMS OF BISMUTH 67-04 M16-66796
GALVANOMAGNETIC STUDIES OF SN-DOPED BI. PT. 1. POSITIVE FERMI ENERGIES 67-05 M15-69815
SOME EFFECTS OF SAMPLE SIZE ON ELECTRICAL TRANSPORT IN BISMUTH 67-10 M15-79417
METHOD OF DETERMINING THE ELECTRICAL MOBILITIES OF IMPURITIES IN LIQUID METALS AND THE MOBILITY OF BISMUTH IN LIQUID GALLIUM 67-11 M15-81208

BISMUTH BASE ALLOYS, ATOMIC PROPERTIES
ON THE ELECTRONIC STRUCTURE OF BISMUTH AND ITS DILUTE ALLOYS 67-08 M16-74430

BISMUTH BASE ALLOYS, BAND THEORY
LIGHT HOLES IN BISMUTH-TIN ALLOYS 67-07 M15-72640

BISMUTH BASE ALLOYS, CASTING
A FUNDAMENTAL STUDY ON THE CASTING CRACK OF LIGHT METAL ALLOYS. RELATION BETWEEN THE CASTING CONTRACTION STRESS AND THE HOT STRENGTH 67-05 M17-68898
THE USE OF LOW MELTING POINT ALLOYS IN THE SHAPING OF POTTERY 67-09 M06-77817

BISMUTH BASE ALLOYS, ELECTRICAL PROPERTIES
VARIATION IN THE ELECTRICAL RESISTIVITY OF BISMUTH OF DIFFERENT PURITIES ON PLASTIC DEFORMATION AND ANNEALING 67-02 M15-61163
VARIATION IN THE THERMOELECTROMOTIVE FORCE ON THE MELTING OF ALLOYS IN THE SYSTEM BISMUTH-LEAD 67-05 M15-68242
THE ISOTROPIC AND ANISOTROPIC CHANGES IN THE ELECTRICAL RESISTANCE, THERMAL EMF AND HALL FACTOR OF BISMUTH DURING ITS PLASTIC DEFORMATION 67-08 M15-75449
DE HAAS-VAN ALPHEN AND GALVANOMAGNETIC EFFECT IN BI AND BI-PB ALLOYS 67-08 M16-74666
THE SEEBECK EMF FOR CERTAIN BI-, CD-, PB-, SN- AND TL-BASE ALLOYS AGAINST THE PURE SOLVENT 67-10 M15-79951

BISMUTH BASE ALLOYS, MAGNETIC PROPERTIES
REMOVAL OF SUPERCONDUCTING SURFACE-SHEATH BY COPPER-PLATING 67-01 M16-57971

BISMUTH BASE ALLOYS, MICROSTRUCTURE
THE MORPHOLOGY OF SOME BINARY EUTECTIC ALLOYS 67-08 M14-74519
INFLUENCE OF THE SUPERHEATING OF AN ALLOY ON HETEROGENEITY OF SOLID SOLUTIONS 67-10 M14-79138

BISMUTH BASE ALLOYS, PHYSICAL PROPERTIES
INVESTIGATION OF THE VISCOSITY HYSTERESIS IN THALLIUM-BISMUTH MELTS 67-02 M15-60550
LOCALIZED IMPURITY STATES IN LIQUID METALS--DILUTE ALLOYS OF NICKEL IN LIQUID BISMUTH 67-07 M15-73986
ELECTRICAL RESISTANCE AND ELECTRICAL TRANSPORT IN THE BI-ZN SYSTEM AT 700 C 67-08 M15-74644
THE EFFECT OF HEAT TREATING ON CERTAIN PROPERTIES OF HALF-CELLS OF BI2TE3 PLUS BI2SE3, BI2TE3 PLUS SB2TE3 TERNARY ALLOYS 67-11 M15-81320

BISMUTH BASE ALLOYS, SUPERCONDUCTIVITY
SUPERCONDUCTIVITY OF CD-BI EUTECTIC SOLDER 67-12 M16-82373

BISMUTH BASE ALLOYS, THERMAL PROPERTIES
SOLUTE INTERACTIONS WITH ZINC IN DILUTE SOLUTION WITH MOLTEN BISMUTH. PT. 2. FOUR- AND FIVE-COMPONENT SOLUTIONS 67-12 M15-82580

BISMUTH BASE ALLOYS, THERMODYNAMICS
VAPOR PRESSURE MEASUREMENTS ON BISMUTH-SELENIUM ALLOYS 67-02 M15-59990
SOLUTE INTERACTIONS WITH ZINC IN DILUTE SOLUTION WITH MOLTEN BISMUTH.. 1-THIRD-ELEMENT EFFECTS 67-09 M15-77720

BISMUTH BASE ALLOYS, THERMOELECTRIC GENERATORS
VARIATIONS IN PROPERTIES OF SINTERED THERMOELEMENTS 67-01 M09-58319
EFFECTS OF POWDER OXIDATION ON SINTERED THERMOELEMENTS 67-01 M09-58320

BISMUTH BASE ALLOYS, TRANSPORT PROPERTIES
ELECTRICAL PROPERTIES OF TERNARY BI-SN-TE ALLOYS IN A WIDE TEMPERATURE RANGE 67-02 M15-61071
MOBILITY OF CURRENT CARRIERS AND MAGNETORESISTANCE IN BISMUTH ALLOYS 67-06 M15-70186

BISMUTH COMPOUNDS, ATOMIC PROPERTIES
ON THE BONDING IN BISMUTH TELLURIDE 67-05 M16-69792

BISMUTH COMPOUNDS, BENEFICIATION
PRODUCTION OF HIGH-QUALITY BISMUTH CONCENTRATES 67-08 M02-75085
STUDY OF THE BEHAVIOR OF BISMUTH DURING THE METALLURGICAL TREATMENT OF COPPER CONCENTRATES 67-12 M02-83405

BISMUTH COMPOUNDS, BINARY SYSTEMS
X-RAY INVESTIGATION OF THE SB2S3-BI2TE3 SYSTEM 67-01 M13-58148
ELECTRON-DIFFRACTION STUDY OF THE PB2BI2SE5 STRUCTURE 67-10 M13-79355
THE QUASI-BINARY SECTIONS SB2TE3-IN2TE3, BI2TE3-IN2TE3 AND SB2SE3-IN2SE3 67-11 M14-80381

BISMUTH COMPOUNDS, COATING
PREPARATION AND PROPERTIES OF SPUTTERED BISMUTH OXIDE FILMS 67-06 M12-71045

BISMUTH COMPOUNDS, CRYSTAL LATTICES
DIRECT OBSERVATION OF INTERACTING DISLOCATION LOOPS FROM DIFFERENT SOURCES IN BI2TE3 67-03 M13-65135
ELECTRON-DIFFRACTION STUDY OF THE PB2BI2SE5 STRUCTURE 67-06 M13-71186
DISLOCATION STUDIES IN BI2TE3 BY ETCH-PIT TECHNIQUE 67-07 M13-72627
DEFECTS IN THE COMPOUND BI2TE3 CAUSED BY IRRADIATION WITH PROTONS 67-10 M16-79152
THE EXISTENCE OF VARIOUS PHASES IN THE QUASI-BINARY SYSTEM, BI2SE3-BI2S3 67-11 M13-80400

BISMUTH COMPOUNDS, DIFFUSION
INVESTIGATION OF COPPER DIFFUSION IN BI2TE3 BY ETCHING TECHNIQUE 67-12 M14-82362

BISMUTH COMPOUNDS, ELECTRICAL PROPERTIES
ELECTRICAL PROPERTIES OF SOME LIQUID SEMICONDUCTORS 67-02 M16-60810

BISMUTH COMPOUNDS, INTERMETALLICS
ANGULAR VARIATION OF COERCIVE FORCE IN PERMANENT MAGNET MATERIALS 67-07 M15-73511

BISMUTH COMPOUNDS, MAGNETIC PROPERTIES
NEUTRON-DIFFRACTION STUDY OF ANTIFERROMAGNETISM IN USB2 AND UBI2 67-12 M15-82006

BISMUTH COMPOUNDS, METALLOGRAPHY
THE ETCHING OF BI--2-Y--SBYTEXSE--3-X-- 67-03 M13-65905
THINNING OF BI2TE3 SPECIMENS FOR TRANSMISSION ELECTRON MICROSCOPY 67-05 M13-69423
AN ETCHANT TO REVEAL DISLOCATIONS IN BI2TE3 67-06 M13-70248

BISMUTH COMPOUNDS, PHASE TRANSFORMATIONS
THE SOLIDIFICATION OF BI2TE3 AND ITS SOLID

SOLUTIONS WITH BI2SE3 AND SB2TE3 UNDER THE INFLUENCE OF ULTRASONIC AGITATION 67-06 M14-70664

BISMUTH COMPOUNDS, PHYSICAL PROPERTIES
THE SOLIDIFICATION OF BI2TE3 AND ITS SOLID SOLUTIONS WITH BI2SE3 AND SB2TE3 UNDER THE INFLUENCE OF ULTRASONIC AGITATION 67-06 M14-70664
THE CHEMICAL BOND IN BISMUTH TELLURIDE 67-11 M16-80175

BISMUTH COMPOUNDS, SEMICONDUCTORS
PRODUCTION OF THERMOELECTRIC MATERIALS BASED ON BI2TE3 SOLID SOLUTION OF BI2TE3-SB2TE3 WITH A GIVEN DISTRIBUTION OF IMPURITIES 67-11 M16-81317

BISMUTH COMPOUNDS, THERMAL PROPERTIES
NEW DATA ON THE INFLUENCE OF CHARGED AND NEUTRAL IMPURITIES ON THE THERMAL CONDUCTIVITY OF THE CRYSTAL LATTICE OF BI2TE3 67-05 M16-69385
AN ATTEMPT TO DETERMINE EXPERIMENTALLY THE PHASE VELOCITY OF A HEAT WAVE IN SEMICONDUCTING BISMUTH TELLURIDE AT ROOM TEMPERATURE 67-11 M15-80508

BISMUTH COMPOUNDS, THERMODYNAMICS
ANALYSIS AND EVALUATION OF MOLECULAR CONSTANTS OF BIATOMIC MOLECULES OF CHALCO-GENIDES OF THE V GROUP 67-05 M16-68956

BISMUTH COMPOUNDS, TRANSPORT PROPERTIES
ELECTRON TRANSPORT AND THERMOELECTRIC PROPERTIES OF N-TYPE BI1.75SB0.25TE3 67-02 M15-61694

BITS /DRILLS/
SEE DRILL BITS

BLACK CHROMIUM PLATING
SEE BLACK PLATING
CHROMIUM PLATING

BLACK NICKEL PLATING
SEE BLACK PLATING
NICKEL PLATING

BLACK PLATING
A NEW BLACK CHROMIUM PLATE 67-03 M12-65326
BLACK CHROME MAKES ITS BID FOR PLATED PARTS 67-03 M12-65409
BRIGHT FUTURE SEEN FOR BLACK CHROMIUM 67-04 M12-66276
ANOTHER BLACK CHROMIUM PLATE IS DEVELOPED 67-08 M12-76184
BLACK CHROMIUM PLATING AT COMMERCIAL PLATING 67-09 M12-77695

BLACKBODY
INVESTIGATION OF THE EMISSIVITY OF SINTERED TUNGSTEN 67-12 M16-82216

BLACKBODY, TEMPERATURE EFFECTS
INTEGRAL DEGREE OF BLACKNESS OF MATERIALS IN THE TEMPERATURE INTERVAL 100 TO 1100 C 67-09 M15-76762

BLACKENING
METHOD OF PRODUCING A BLACK OXIDE COATING ON FERROUS METALS 67-02 M12-60947

BLADES
SEE ALSO COMPRESSOR BLADES
ROTOR BLADES
STATOR BLADES
TURBINE BLADES

BLADES, WELDING
STRENGTHENING VENTILATOR BLADES BY DEPOSIT WELDING WITH INDUCTION HEATING 67-10 M11-78413

BLADES /CUTTING/
ELECTRON-MICROSCOPIC INVESTIGATION OF FINE CUTTING BY RAZOR BLADES 67-06 M13-72164

BLAKODIZING
SEE COATING
OXIDATION

BLANKETS /ATMOSPHERES/
SEE CONTROLLED ATMOSPHERES

BLANKING
FINE-BLANKED STAMPINGS NEED NO DEBURRING, SIZING 67-01 M08-58785
HERF SHEARS EDGES CLEAN 67-02 M07-61006
FINE BLANKING REPLACES SIX STAMPING OPERATIONS 67-04 M08-68117
ONE PRESS--MANY TALENTS 67-05 M07-68811
FRENCH STOPS SPEED BLANKING 67-05 M08-68774
BLANKING-OFF REFORMER TUBES DURING PLANT OPERATION 67-06 M07-70540
SMOOTH-EDGE BLANKING FOR ACCURATE STAMPINGS 67-06 M08-69955
FINE BLANKING--TOO GOOD FOR U. S. STAMPERS TO PASS UP 67-06 M08-71885
SPECIAL-PURPOSE TURNING MACHINE FOR TURNING BLANKS IN TUBE PRODUCTION 67-07 M07-72434
ATMOSPHERIC PRESSURE FORMS TITANIUM PANELS 67-07 M08-72987
FORMING, DRAWING AND BLANKING PRODUCTION UNDER HIGH PRESSURE 67-07 M08-73220
PRESSWORK--PRESS TOOLS FOR PRODUCING COMPONENTS FOR FLUID TRANSMISSIONS 67-08 M08-75560
LUBRICANTS FOR BLANKING, STAMPING AND DRAWING 67-08 M08-75943
THE EFFECTS OF TEMPERATURE, SPEED AND STRAIN-RATE ON THE FORCE AND ENERGY REQUIRED IN BLANKING 67-08 M08-76048
THE FINE BALNKING PROCESS 67-08 M08-76194
FINE-EDGE BLANKING 67-09 M08-76743
CHEMICAL MILLING OF SPACE, FLIGHT HARDWARE 67-10 M08-78338
PUNCH-TO-DIE CLEARANCES IN STEEL RULE DIES DIES--THEIR IMPORTANCE AND AUTOMATIC PROVISION 67-10 M08-79530
NEW USES FOR MACHINABLE CARBIDES 67-10 M08-79777
TRIMMING OF TITANIUM MADE EASY 67-11 M08-81193
USE OF AIR AND OIL-PNEUMATIC CUSHIONS IN BLANKING DEEP DRAWING AND STAMPING OPERATIONS 67-12 M08-81923

BLANKING, AUTOMATION
HIGH-SPEED BLANKING, ASSEMBLY COMBINED ON ONE STANDARD PRESS 67-09 M08-77698

BLANKING, LUBRICANTS
IN DRAWING, BLANKING, STAMPING--SELECTING THE PROPER PRESS LUBRICANT 67-07 M08-74263

BLANKING DIES
ECONOMY DIES SPEED PRODUCT DEVELOPMENT AND PRODUCTION 67-02 M20-60244
FRENCH STOPS SPEED BLANKING 67-05 M08-68774

BLAST /HOT/
SEE HOT BLAST

BLAST CLEANING
SEE ALSO GRIT BLAST CLEANING
DOSCO STEEL PROCESSING FLAT ROLLED STRIP IN QUEBEC 67-02 M12-60240
DOSCO MONTREAL MILL CHURNS OUT STEEL USING NO-ACID DESCALING 67-04 M06-66697
MODERN CASTINGS CLEANING EQUIPMENT 67-04 M12-67330
ABRASIVE BLASTING--WET AND DRY 67-10 M12-78524

BLAST CUPOLAS
SEE HOT BLAST CUPOLAS

BLAST DESCALING
SEE BLAST CLEANING
DESCALING

BLAST FURNACE CHEMISTRY
REACTION KINETICS IN THE BLAST FURNACE 67-02 M04-60265
A STUDY OF COKE COMBUSTION ZONES IN A BLAST FURNACE ON THE BASIS OF ELECTRONION PHENOMENA 67-04 M04-66611
EFFECT OF BASICITY ON THE PROPERTIES OF ORE SINTER 67-08 M09-75589
SUPERFLUXED SINTER PRACTICE AT BETHLEHEM STEEL CORP.S LACKAWANNA PLANT 67-09 M02-76729
OPERATION OF AN EXPERIMENTAL FURNACE WITH PELLET AND SINTER BURDENS 67-09 M02-76731
REDUCTION OF IRON ORES IN THE BLAST FURNACE STACK 67-11 M04-80795
THE ACTIVITY OF IRON OXIDE IN SILICA-SATURATED SLAGS 67-11 M04-80796
APPLICATION OF THE REACTIONS CONCERNING H2 AND STEAM AND THE TEMPERATURE OF TOP GAS TO THE BLAST FURNACE MODEL 67-11 M04-80940
ON THE SOFTENING PROPERTY OF IRON ORE SINTER WITH VARIOUS BASICITY RATIOS 67-12 M04-81742
THE RATE AND MECHANISM OF THE REDUCTION OF FEO AND MNO FROM SILICATE AND ALUMINATE SLAGS BY CARBON-SATURATED IRON 67-12 M04-82724
PACKED BEDS IN METALLURGICAL OPERATIONS 67-12 M15-83076

BLAST FURNACE COMPONENTS
SEE ALSO BLAST FURNACE STOVES
BLAST FURNACE TUYERE 67-11 M04-81040
STUDY OF BLAST FURNACE STACK REFRACTORY LIFE WITH THE AID OF ISOTOPES 67-11 M04-81303
GAPS BETWEEN THE CONTACTING SURFACES OF THE LARGE BELL AND THE CUP IN UNEVEN HEATING 67-12 M04-81859

BLAST FURNACE COMPONENTS, HEARTHS
TEMPERATURE CONDITIONS IN THE BLAST-FURNACE HEARTH WITH OXYGEN-ENRICHED BLAST AND NATURAL-GAS INJECTION 67-05 M04-69080

BLAST FURNACE COMPONENTS

BLAST FURNACE COMPONENTS, LINERS
FORMATION OF ALKALI SILICATES AND ALUMINO-SILICATES AND THEIR OCCURRENCE IN BLAST FURNACES 67-04 M14-67760
BLAST FURNACE COMPONENTS, MECHANICAL PROPERTIES
COMPARATIVE WEARING CAPACITY OF CERTAIN METALS IN TOP GAS FLOWS 67-11 M17-81302
STUDY OF THE ABRASIVE WEAR OF MATERIALS UNDER ACTUAL CONDITIONS OF BLAST FURNACE OPERATION 67-12 M17-81728
BLAST FURNACE COMPONENTS, SERVICE TIME
OPERATION OF BLAST FURNACES WITH A THIN-WALLED SHAFT 67-07 M04-73772
CERTAIN FACTORS IN THE TECHNOLOGY FOR CASTING BLAST-FURNACE CHARGING BELLS AND HOPPERS 67-07 M04-74138
OPERATION OF BLAST FURNACES WITH A THIN-WALLED STACK 67-09 M04-76535
EFFECT OF THE GRINDING COARSENESS OF BALL COMPONENTS ON THE SERVICE OF BLAST FURNACE IRON NOTCHES 67-12 M04-81860
BLAST FURNACE COMPONENTS, THROATS
AUTOMATIC DETERMINATION OF THE CARBON DIOXIDE CONTENT IN THE GAS ALONG A BLAST FURNACE THROAT RADIUS 67-05 M04-69078
BLAST FURNACE COMPONENTS, TUYERES
BLAST FURNACE TUYERES 67-02 M04-59567
THE COMBUSTION PROCESS AT BLAST FURNACE TUYERES 67-02 M04-61735
BURNING AND DISTRIBUTION OF GAS JETS IN A BLAST FURNACE AT VARIOUS TUYERE PROJECTIONS 67-02 M04-62257
BLAST-FURNACE TUYERE WITH FUEL OIL FEED NOZZLE 67-03 M04-65948
BLAST FURNACE COMPONENTS, WEAR
THE MECHANISM OF FAILURE OF THE HEARTH BOTTOM IN A BLAST FURNACE 67-03 M04-65957
BLAST FURNACE COMPONENTS, WELDING
BUILDING UP THE CONES OF BLAST FURNACE CHARGING EQUIPMENT 67-11 M11-80555
BLAST FURNACE GAS
RELATION BETWEEN THE RATE OF DIRECT REDUCTION AND TOP GAS RATIO 67-01 M04-57907
DETERMINING THE DEGREE OF UTILIZATION OF HYDROGEN IN THE BLAST FURNACE 67-04 M04-66202
DISTRIBUTION OF SULFUR IN THE TUYERE ZONE OF THE BLAST FURNACE 67-05 M04-68543
NATURE OF SULPHUR DISTRIBUTION IN THE TUYERE ZONE OF THE BLAST FURNACE 67-07 M04-72454
DEGREE OF UTILIZATION OF THE REDUCING CAPACITY OF BLAST FURNACE GASES 67-08 M04-76264
CORRELATION TACTICS TO CHECK EFFECTIVENESS OF UPPING TOP GAS PRESSURE 67-09 M04-77038
EFFECT OF SLAG-FORMING ZONE ON THE GAS PERMEABILITY OF THE BURDEN 67-09 M04-77356
DEGREE OF UTILIZATION OF REDUCING CAPACITY OF GASES IN BLAST FURNACE 67-10 M04-79257
CERTAIN FACTORS AFFECTING GAS STATIC PRESSURE GRADIENTS OVER THE FURNACE HEIGHT 67-11 M04-81015
CONTROL AND REGULATING PERIPHERAL AND RADIAL VARIANCE IN GAS FLOW PATTERNS IN THE BLAST FURNACE BY MEANS OF TOP GAS TEMPERATURE 67-11 M04-81017
GAS FLOW PATTERNS IN BLAST FURNACE TOPS 67-11 M04-81217
HOW PERIODICITY OF CHARGING AFFECTS BLAST FURNACE TOP GAS TEMPERATURE AND ITS ACCURATE MEASUREMENT 67-11 M04-81458
BLAST FURNACE GAS, CHEMICAL ANALYSIS
ANALYSIS OF BLAST FURNACE TOP GAS. IMPROVEMENTS FOR PRACTICAL USE OF INFRARED RAY ANALYZERS. PT. 1 67-04 M04-67511
BLAST FURNACE GAS, PERMEABILITY
INTERRELATIONSHIP BETWEEN GAS PERMEABILITY AND THERMAL STATE OF BLAST FURNACES 67-08 M04-74325
BLAST FURNACE PRACTICE
FRENCH EXPERIMENTS FOR CONTROLLING THE BLAST FURNACE OPERATION USING A COMPUTER ON LINE 67-01 M04-57501
COAL INJECTION INTO THE IRON BLAST FURNACE 67-01 M04-57502
THE BLAST FURNACES OF USINOR, DUNKIRK 67-01 M04-57503
SPENCER WORKS IRONMAKING PLANT 67-01 M04-57504
THE NEW C-3 BLAST FURNACE-CLEVELAND WORKS JONES AND LAUGHLIN STEEL CORPORATION 67-01 M04-57505
AMANDA BLAST FURNACE, ASHLAND WORKS ARMCO STEEL CORPORATION 67-01 M04-57506
PERFORMANCE OF COMMERCIALL-SIZE BLAST FURNACE ON HIGH SCRAP CHARGES AND SIGNIFICANCE TO THE USE OF PREREDUCED ORE 67-01 M04-57508
RELATION BETWEEN THE RATE OF DIRECT REDUCTION AND TOP GAS RATIO 67-01 M04-57907
CORRELATION STUDY OF A FULL-SCALE BLAST FURNACE TO AN EXPERIMENTAL FURNACE 67-01 M04-58103
THE EXPERIMENTAL FURNACE AT LIEGE 67-01 M04-58104
FEATURES OF SIDERITE DISSOCIATION IN THE BLAST FURNACE AND THE INVOLVED HEAT 67-01 M04-58142
THEORETICAL CONSIDERATION ON COKE RATIO OF THE BLAST FURNACE OPERATION. PT. 1. STUDIES FOR THE IMPROVEMENT IN THE BLAST FURNACE PRACTICE 67-01 M04-58259
JONES AND LAUGHLIN STEEL CORPORATIONS ALIQUIPPA WORKS 67-01 M04-58503
SUPPLIERS TO THE INDUSTRY--IRONMAKING AT WORKINGTON IRON AND STEEL 67-01 M04-58593
RECENT ADVANCES IN STEEL WORKS REFRACTORIES 67-01 M05-58645
IMPROVEMENT OF PRACTICES FOR SHIFTING BLAST FURNACE OPERATION TO SMELTING FERROSILICON 67-02 M04-58852
MELTING OF BASIC PIG IRON OF LOW SULFUR CONTENT 67-02 M04-59508
EFFECT OF SLAG BASICITY AND SILICON CONTENT IN FERROMANGANESE ON THE TECHNICAL AND ECONOMIC EFFICIENCY OF BLAST FURNACE OPERATION 67-02 M04-59571
DETERMINATION OF THE EFFICIENCY, CARBON CONSUMPTION AND OTHER PARAMETERS OF THE BLAST FURNACE PROCESS FROM BLAST FURNACE GAS COMPOSITION 67-02 M04-59859
ON THE MECHANISM OF THE DESCENT OF THE BURDEN IN THE COMBUSTION REGION OF A BLAST FURNACE UNDER FORCED OPERATION 67-02 M04-59875
BLAST FURNACE OPERATION USING MARCONA PELLETS UP TO 65 PER CENT IN BURDEN 67-02 M04-60035
GAMMA-RAY LEVEL GAGE OF BLAST FURNACE 67-02 M04-60164
EFFECT OF SCREENING OF ORES AND SINTERS ON BLAST FURNACE PERFORMANCE 67-02 M04-60690
THE FOURTH RECONSTRUCTION PROGRAM OF MURORAN NO. 2 BLAST FURNACE. PT. 2. RECONSTRUCTION AND OPERATION 67-02 M04-60755
INSTRUMENT ANALYSIS AT THE TOKAI IRON AND STEEL WORKS 67-02 M04-60758
STRUCTURE OF THE MOVING MELTING STOCK COLUMN IN LARGE MODELS OF A BLAST FURNACE 67-02 M04-61205
THE COMBUSTION PROCESS AT BLAST FURNACE TUYERES 67-02 M04-61735
QUALITATIVE AND QUANTITATIVE ASSESSMENT OF EFFECTS ON THE HEAT STATE OF THE BLAST FURNACE SHAFT 67-02 M04-61736
PHYSICAL PROPERTIES OF HIGH-ALUMINA BLAST FURNACE SLAGS 67-02 M04-61737
DESCRIPTION OF THE DYNAMICS OF A BLAST FURNACE UNDER THE EFFECT OF DISTURBANCES 67-02 M04-61759
ESTABLISHING A MODEL OF THE DYNAMIC CHARACTERISTICS OF A BLAST FURNACE BY THE DELTA K-DELTA SI CHANNEL 67-02 M04-61760
ON THE ACTIVITY OF IRON OXIDE IN THE SILICA-SATURATED SLAGS 67-02 M04-61850
BLAST FURNACE MELTING AND PRODUCTION OF FLUXED SINTER, CONTAINING OVER 61 PER CENT IRON 67-02 M04-61861
USE OF A COMPUTER IN PLOTTING A GRAPH OF IRON TAPPINGS 67-02 M04-61863
A SINGLE-BELL CHARGING APPARATUS FOR BLAST FURNACES 67-02 M04-61864
EXPERIMENTAL BLOWING OF COAL DUST INTO HEARTH OF HIGH-CAPACITY BLAST FURNACE 67-02 M04-61952
STUDY OF HOT BLAST STOVES OF A 2000 M3 CAPACITY BLAST FURNACE 67-02 M04-61953
USE OF PREREDUCED PELLETS IN THE BLAST FURNACE. GRAPHICAL STUDY 67-02 M04-62034
COMPOSITION OF FUMES OF SULFUROUS FUELS. PT. 2. EQUILIBRIUM COMPOSITIONS OF FUMES OF SULFUROUS FUELS IN THE PRESENCE OF SOLID PHASES 67-02 M04-62062
REDUCTION AND SLAG FORMATION IN A BLAST FURNACE AT VARIOUS REDUCIBILITIES OF BURDEN 67-02 M04-62258
DETERMINING A DYNAMIC MODEL OF A BLAST FURNACE

67-02 M04-62280
A MODEL FOR CONTROLLING A BLAST FURNACE BY THE PARAMETER BLAST HUMIDITY--SILICON CONTENT IN IRON
67-02 M04-62281
CAUSES OF THE FORMATION OF BLOWOUTS IN CHARGING EQUIPMENT OF BLAST FURNACES 67-02 M04-62283
REFINING STEEL BY ATOMIZATION 67-03 M04-65436
TEN YEARS OF NUCLEAR RESEARCH IN STEELMAKING OPERATIONS 67-03 M04-65802
DETERMINATION OF THE TEMPERATURES OF INCIPIENT MELTING OF A BLAST-FURNACE BURDEN
67-03 M06-65411
A CASE FOR PELLETIZING 67-04 M04-66599
THE RELATIONSHIP OF FORCES, ACTING ON THE MELTING STOCK COLUMN IN A BLAST FURNACE
67-04 M04-66609
REACTIONS OF MANGANESE WITH SILICA
67-04 M04-67032
THE OPERATION OF A LARGE WATERCOOLED HOT BLAST CUPOLA 67-04 M04-67116
THE FLOW RESISTANCE OF BLAST-FURNACE BURDENS
67-04 M04-67407
THE REDUCING FUNCTION OF GASES IN A BLAST FURNACE OPERATING ON FLUXED SINTER AND NATURAL GAS
67-04 M04-67602
COMBUSTION PROCESS IN A BLAST FURNACE DURING NATURAL GAS BLOWING 67-04 M04-67604
PRODUCTION OF FLUXED SINTER WITH AN IRON CONTENT OF OVER 61 PER CENT AND BLAST-FURNACE OPERATION ON SUCH SINTER 67-04 M04-67680
GASEOUS REDUCTION IN THE BLAST-FURNACE STACK DURING THE USE OF NATURAL GAS 67-04 M04-67681
WORKING OUT THE PIG-IRON CASTING SCHEDULE WITH THE AID OF A COMPUTER 67-04 M04-67682
SINGLE-BELL BLAST-FURNACE CHARGING GEAR
67-04 M04-67683
EXPERIMENTAL INDUSTRIAL INJECTION OF COAL DUST INTO THE HEARTH OF A LARGE BLAST FURNACE
67-04 M04-67770
INVESTIGATING HOT-BLAST STOVES FOR A BLAST FURNACE 2000 M3 IN VOLUME 67-04 M04-67771
INJECTION OF CHARCOAL INTO BLAST FURNACES
67-04 M04-68033
DISPENSING CUPOLA CHARGE MATERIALS WITH THE AID OF COMPUTERS 67-04 M04-68090
STUDY OF REDUCTION OF FUEL CONSUMPTION IN BLAST FURNACES RESULTING FROM USE OF SPONGE IRON
67-04 M04-68144
INFLUENCE OF THE POSITION OF THE DEPRESSION IN THE STOCKLINE ON BLAST-FURNACE PRODUCTIVITY
67-04 M04-68179
AUTOMATIC DELINEATOR OF THE BLAST-FURNACE STOCKLINE 67-04 M04-68180
FORMATION OF ALKALI SILICATES AND ALUMINO-SILICATES AND THEIR OCCURRENCE IN BLAST FURNACES
67-04 M14-67760
OBTAINING A STABILIZED GRADED SINTER AND USING IT FOR EXPERIMENTAL BLAST FURNACE MELTING
67-05 M02-69676
REDUCTION PROCESSES IN THE BLAST FURNACE SHAFT WHEN OPERATING ON COMBINATION BLAST
67-05 M04-68317
USING THE REDUCING CAPACITY OF NATURAL GAS IN THE PRODUCTION OF BASIC PHOSPHORUS IRON
67-05 M04-68318
DISTRIBUTION OF SULFUR IN THE TUYERE ZONE OF THE BLAST FURNACE 67-05 M04-68543
INVESTIGATION OF THE WORK OF GASES ACROSS THE HEIGHT AND RADIUS OF A BLAST FURNACE DURING BLOWING WITH NATURAL GAS 67-05 M04-68544
CONTROLLING THE BLAST-FURNACE GAS FLOW PATTERN BY CHANGING THE TUYERE OVERHANG 67-05 M04-69068
EFFECT OF BASICITY OF BLAST-FURNACE SLAG ON THE SULFUR CONTENT OF THE IRON 67-05 M04-69073
BLOWING-IN A BLAST FURNACE AFTER MAJOR REPAIRS WITHOUT REMOVAL OF THE CHARGE FROM THE BOSH ZONE
67-05 M04-69077
AUTOMATIC DETERMINATION OF THE CARBON DIOXIDE CONTENT IN THE GAS ALONG A BLAST FURNACE THROAT RADIUS 67-05 M04-69078
TEMPERATURE CONDITIONS IN THE BLAST-FURNACE HEARTH WITH OXYGEN-ENRICHED BLAST AND NATURAL-GAS INJECTION 67-05 M04-69080
BLAST FURNACE TRIALS WITH A HIGH OXYGEN CONTENT IN THE BLAST 67-05 M04-69084
INDUSTRIAL COMPUTER APPLICATIONS IN THE MANUFACTURE OF CAST IRON AND STEEL 67-05 M04-69138
MATERIAL AND GAS FLOW DISTRIBUTION DURING CHANGES IN DISTRIBUTOR ROTATION PROGRAM
67-05 M04-69677
INLANDS NO. 5 BLAST FURNACE IS SUPERVISED BY COMPUTER 67-05 M19-69491
A RAPID METHOD FOR DETERMINING THE BASICITY OF BLAST FURNACE SLAGS 67-05 M19-69607
INTERFACIAL TENSION OF PRODUCTS OF BLAST FURNACE MELTING OF TITANIUM-MAGNETITES AND METAL LOSSES IN SLAG 67-06 M04-69967
STABILIZATION OF HEAT STATE OF BLAST FURNACE DURING INJECTION OF FUEL THROUGH TUYERES
67-06 M04-70112
MAINTENANCE AND DESIGN TRENDS FOR MODERN BLAST FURNACES. PT. 5 67-06 M04-71320
FUEL INJECTION INTO THE BLAST FURNACE
67-06 M04-71326
NONCONTACT CONTROL OF BLAST FURNACE CHARGING
67-06 M04-71378
INVESTIGATION OF THE EFFECTS OF BURDEN CONSTITUENTS ON BLAST FURNACE REFRACTORY LININGS
67-06 M04-71387
REBUILD OF GREAT LAKES STEELS NO. A BLAST FURNACE
67-06 M04-71388
ACTION OF A THROAT ARMOUR OF VARIABLE DIAMETER ON THE GAS FLOW IN A BLAST FURNACE
67-06 M04-71438
USE OF HIGH TOP PRESSURES AND WIND RATE WITH SINTER AND PELLET BURDENS 67-06 M04-72077
OPERATING PRACTICES REQUIRED TO OPTIMIZE BLAST FURNACE PERFORMANCE 67-06 M04-72078
DESIGN AND OPERATION OF A FLAME TEMPERATURE COMPUTER ON A BLAST FURNACE 67-06 M04-72079
BLAST FURNACE OPERATING RESULTS WITH A 95 PER CENT MILL SCALE BURDEN 67-06 M04-72080
INTRODUCTION OF COMPUTER CONTROL TO THE BLAST FURNACE 67-06 M04-72130
BLAST FURNACE PRACTICE WITH IMPORTED PELLETS VS SINTER AT NO. 2 TABATA --JAPAN--BLAST FURNACE
67-06 M04-72131
THE GAS PERMEABILITY OF PELLETS IN THE BLAST FURNACE 67-06 M04-72294
REDUCTION OF A MIXTURE OF ORE AND COKE BY MEANS OF A HYDROGEN PLUS CARBON MONOXIDE PLUS NITROGEN MIXTURE 67-06 M04-72381
TENDENCIES IN THE FORMATION OF LUMPS OF BURDEN MATERIALS FOR SHAFT FURNACES 67-07 M02-74104
CONTROL OF SCRAP COMPOSITION FOR CARBON STEELS
67-07 M04-72414
NATURE OF SULPHUR DISTRIBUTION IN THE TUYERE ZONE OF THE BLAST FURNACE 67-07 M04-72454
INVESTIGATING THE WORK OF THE GAS UP AND ALONG A BLAST-FURNACE RADIUS DURING NATURAL-GAS INJECTION
67-07 M04-72455
MATHEMATICAL MODEL OF A BLAST FURNACE IN THE ZONE ABOVE THE TUYERE LEVEL 67-07 M04-72519
ANALYSIS BASED ON CHEMICAL REACTION ENGINEERING FOR THE UPPER ZONE OF BLAST FURNACES ABOVE THE TUYERE LEVEL 67-07 M04-72520
INVESTIGATION OF SCAFFOLD FORMATION IN THE BLAST FURNACE STACK 67-07 M04-72683
REFINING WITH A PULSATING OXYGEN BLAST
67-07 M04-72722
NATURAL GAS IN THE RUSSIAN BLAST FURNACE
67-07 M04-72792
INVESTIGATING REDUCTION PROCESSES IN THE BLAST-FURNACE STACK DURING OPERATION ON COMBINED BLAST
67-07 M04-72845
UTILIZATION OF REDUCING CAPACITY OF NATURAL GAS IN PRODUCTION OF STEELMAKING PHOSPHORIC PIG IRON
67-07 M04-72846
SULFUR IN THE GAS PHASE OF THE BLAST FURNACE WHEN OPERATING ON FLUXED SINTER AND RAW ORE
67-07 M04-73021
COMPARATIVE INVESTIGATION INTO THE PERFORMANCE OF VARIOUS GRADES OF PELLETS AND SINTER IN THE BLAST FURNACE 67-07 M04-73032
ANALYSIS OF THE THERMAL PERFORMANCE OF BLAST FURNACES 67-07 M04-73080
A DUAL GRAPHIC REPRESENTATION OF THE BLAST FURNACE MASS AND HEAT BALANCES 67-07 M04-73098
COMPARATIVE ASSESSMENT OF THE PRODUCTION PERFORMANCE OF BLAST FURNACES
67-07 M04-73110
COMPARISON OF THE METALLURGICAL POSSIBILITIES OF HOT AND COLD BLAST OPERATION IN THE CUPOLA. PT. 2. RELATIONSHIPS IN REGARD TO OXIDATION LOSS AND PICK-UP BY REDUCTION OF IRON AND ITS COMPANION ELEMENTS 67-07 M04-73249
OPERATION OF BLAST FURNACES WITH A THIN-WALLED SHAFT 67-07 M04-73772

DISTRIBUTION OF MATERIALS AND GAS FLOW WITH CHANGES IN ROTATION PROGRAMME OF THE DISTRIBUTOR 67-07 M04-74063
INVESTIGATION OF THE CONTROL OF GAS FLOW IN BLAST FURNACES BY AUTOMATIC BLAST DISTRIBUTION 67-07 M04-74103
EXPERIMENTAL STUDY OF PRESSURE DROP ACROSS FIXED BEDS OF ANTHRACITE BRIQUETS AND BLAST FURNACE INTERIOR, BUREAU OF MINES, WASHINGTON, D.C. MATERIALS 67-07 M04-74113
INFLUENCE OF SLAG CONDITIONS ON BLAST-FURNACE OPERATION 67-07 M04-74130
CRITERION OF THERMAL STATE OF THE HEARTH IN CONNECTION WITH THE CONTROL OF THE THERMAL STATE OF A BLAST FURNACE 67-07 M04-74131
SILICON CONTENT OF PIG IRON AS A CRITERION OF THERMAL STATE OF A BLAST FURNACE 67-07 M04-74132
REDUCTION OF IRON ORES 67-07 M04-74286
TRENDS IN IRON AND STEEL PLANT REFRACTORIES 67-07 M05-73719
INTERRELATIONSHIP BETWEEN GAS PERMEABILITY AND THERMAL STATE OF BLAST FURNACES 67-08 M04-74325
PULSATING BLAST AS A METHOD OF REGULATING THE OPERATION OF BLAST FURNACES 67-08 M04-74326
BLAST FURNACE PERFORMANCE USING HIGH-ASH COKE 67-08 M04-74452
SOME RECENT DEVELOPMENTS IN THE FIRING OF BLAST FURNACE STOVES 67-08 M04-74467
THE PROBLEM OF HUMIDIFYING THE HOT BLAST WHEN USING NATURAL GAS 67-08 M04-74574
UTILIZATION OF PARTIALLY REDUCED ORE FOR CUPOLA CHARGE 67-08 M04-74675
SUPPLEMENTARY OIL-FIRING OF A COLD-BLAST CUPOLA 67-08 M04-74800
METHOD OF MEASURING STATIC PRESSURE OVER THE BLAST FURNACE HEIGHT 67-08 M04-74873
TEMPERATURE DISTRIBUTION IN THE HEARTH OF A BLAST FURNACE WITH AIR-COOLED BOTTOM 67-08 M04-75110
THEORETICAL CONSIDERATION ON BLAST FURNACE COKE RATE 67-08 M04-75152
NEW PROCESS FOR IRON PRODUCTION IN A REACTOR 67-08 M04-75398
THE APPLICATION OF CHEMICAL KINETICS TO IRONMAKING PROCESS 67-08 M04-75546
SWAYING OF THE BIG BELL OF BLAST-FURNACE CHARGING GEAR 67-08 M04-75710
EFFECT OF SLAG COMPOSITION ON THE TRANSFER RATE OF SULFUR AND SLAG VISCOSITY IN BLAST FURNACE 67-08 M04-75801
EFFECTS OF BURDEN PREPARATION ON IRONMAKING 67-08 M04-75810
CHARACTERISTIC CHANGES IN CHARGE MATERIALS IN A BLAST FURNACE WHEN OPERATING ON STEAM BLAST AND NATURAL GAS 67-08 M04-75864
SLAG VISCOSITY IN BLAST FURNACE MELTING OF TITANOMAGNETITES 67-08 M04-75865
FUEL INJECTION IMPORVES BLAST FURNACE CONTROL 67-08 M04-76182
BLAST FURNACE PRODUCTION USING COAL-PETROLEUM OIL FUEL 67-08 M04-76262
DEGREE OF UTILIZATION OF THE REDUCING CAPACITY OF BLAST FURNACE GASES 67-08 M04-76264
REFRACTORIES KEEP PACE WITH RISING OUTPUT RATES ON IRON AND STEEL PLANTS 67-08 M05-75698
THE EFFECTS OF BURDEN PREPARATION ON IRONMAKING 67-09 M02-76386
TESTS ON THE NO. 5 BLAST FURNACE AT THE REHON, PROVIDENCE, PLANT 67-09 M04-76377
IRONMAKING TOMORROW 67-09 M04-76385
MAIN TRENDS IN THE DEVELOPMENT OF BLAST FURNACE PRACTICE 67-09 M04-76387
BLAST FURNACE PRACTICE AND TRENDS IN BLAST FURNACE OPERATION AT KONINKLIJKE NEDERLANDSCHE HOOGOVENS EN STAALFABRIEKEN NV 67-09 M04-76388
PRESENT POSITION AND FUTURE DEVELOPMENT OF PIG IRON PRODUCTION IN THE GERMAN FEDERAL REPUBLIC 67-09 M04-76389
OPERATING WITH IRON ORE PELLETS 67-09 M04-76390
BURDEN PREPARATION AND ITS IMPACT ON IRONMAKING AT PORT KEMBLA 67-09 M04-76391
THE USE OF PREREDUCED MATERIALS IN THE BLAST FURNACE. PT. 1 67-09 M04-76394
OPERATION OF BLAST FURNACES WITH A THIN-WALLED STACK 67-09 M04-76535
IMPROVED BLAST FURNACE TECHNOLOGY FOR MELTING VANADIUM IRON FROM KSUINSK AND PREVOURALSK ORES 67-09 M04-76575
USE OF METALLIZED PELLETS IN THE BLAST FURNACE 67-09 M04-76708
BLAST FURNACE OPERATION WITH WASHED BURDEN MATERIALS 67-09 M04-76726
EFFECTS OF BURDEN SIZING ON BLAST FURNACE OPERATION 67-09 M04-76727
BRIQUETTING-COMPACTING APPLICATIONS IN THE STEEL INDUSTRY 67-09 M04-76728
BLAST FURNACE OPERATION WITH NATURAL GAS INJECTION AND OXYGEN-ENRICHED BLAST 67-09 M04-76748
CHARGE DISTRIBUTER FOR BLAST FURNACES 67-09 M04-76830
BLAST TUYERE OF A BLAST FURNACE 67-09 M04-76831
BLAST FURNACE TUYERE COOLER 67-09 M04-76832
THE USE OF A WETTED BLAST IN MODERN-TYPE BLAST-FURNACE SMELTING 67-09 M04-76934
INJECTION OF BROWN-COAL DUST INTO A BLAST FURNACE 67-09 M04-76950
DEVELOPMENT AND ADOPTION OF TECHNOLOGY FOR BF MELTING OF VANADIUM IRON FROM KACHKANARSK ORES 67-09 M04-77055
DEVELOPING A THERMOCHEMICAL MODEL FOR THE IRON BLAST FURNACE--MATHEMATICAL MODEL OF THE REDUCTION ZONE 67-09 M04-77104
THE LABORATORY DETERMINATION OF MATERIAL CONVERSION RATES AND THEIR APPLICATION TO A SPECIAL KINETIC-MATHEMATICAL MODEL OF A BLAST FURNACE 67-09 M04-77342
EFFECT OF SLAG-FORMING ZONE ON THE GAS PERMEABILITY OF THE BURDEN 67-09 M04-77356
CHARACTERISTICS OF FINE PARTICLES OF BURDEN MATERIALS AND THE ESCAPE OF BLAST FURNACE DUST 67-09 M04-77357
DETERMINING THE PRODUCTIVITY OF BLAST FURNACES PRODUCING FERROMANGANESE, USING THE PLURAL CORRELATION METHOD 67-09 M04-77374
DEVELOPMENT OF OXYGEN IN IRON AND STEEL MAKING WITH SPECIAL REFERENCE TO BRITAIN 67-09 M04-77542
INCREASE OF HOT AIR TEMPERATURE WHEN SMELTING AN UNPREPARED BURDEN WITH ADDITION OF NATURAL GAS AND WATER VAPOR 67-09 M04-77580
REDUCTION IN BLAST FURNACES OF THE ORSKOKHALILOVSKII METALLURGICAL COMBINE 67-09 M04-77622
ON THE NUMBER OF AIR TUYERES IN BLAST FURNACES 67-09 M04-77623
THE DEVELOPMENT OF THE BLAST FURNACE 67-09 M04-77701
THE DISTRIBUTION OF NITROGEN BETWEEN IRON AND SLAG IN BLAST FURNACES 67-09 M04-77708
THE DISINTEGRATION OF IRON RICH PELLETS DURING REDUCTION 67-09 M04-77709
CONTROL OF THE DEGREE OF INDIRECT IRON REDUCTION IN A BLAST FURNACE 67-09 M04-77855
THE STATE-OF-THE-ART OF BURDEN PREPARATION IN FRANCE 67-09 M04-78044
THE BLAST FURNACE--STATE-OF-THE-ART 67-10 M04-78322
BURDEN PREPARATION FOR OPTIMUM BLAST-FURNACE PERFORMANCE 67-10 M04-78327
MEASUREMENT OF HYDROGEN UTILIZATION IN THE BLAST FURNACE BY STEAM PULSE AND OIL INJECTION TECHNIQUES 67-10 M04-78329
TECHNOLOGICAL PROBLEMS OF THE MAXIMUM UTILIZATION OF HOMOGENIZING INSTALLATIONS IN THE CZECH PEOPLES REPUBLIC 67-10 M04-78648
THE BLOWING OF HEAVY HEATING OIL INTO THE BLAST FURNACE 67-10 M04-78650
OIL ADDITIONS TO THE BLAST IN BLAST FURNACES OF THE VEB --PEOPLE-OWNED ENTERPRISE-- MAXHUTTE--RESULTS OF ONE YEARS OPERATION 67-10 M04-78651
COKE REACTIVITY AS A MEASURE OF APPLICABILITY IN BLAST FURNACES 67-10 M04-78652
CONDITIONS NECESSARY IN REDUCIBILITY TESTS IN IRON ORES 67-10 M04-79099
DEVELOPMENT OF BLAST-FURNACE OPERATING TECHNOLOGY USING A COAL/FUEL-OIL FUEL 67-10 M04-79255
DEGREE OF UTILIZATION OF REDUCING CAPACITY OF GASES IN BLAST FURNACE 67-10 M04-79257
PHYSICAL PROPERTIES OF HIGH-MAGNESIAL BLAST FURNACE SLAGS 67-10 M04-79318
CALCULATING THE HEAT EXCHANGE PROCESSES IN A BLAST FURNACE 67-10 M04-79319
ENGINEERING PROBLEMS CONNECTED WITH THE CAPACITY

INCREASE OF BLAST FURNACES 67-10 M04-79392
ARE PREREDUCED PELLETS A LUXURY 67-10 M04-79434
THE INJECTION OF COKE OVEN GAS IN A BLAST FURNACE 67-10 M04-79695
THE EVALUATION OF COKE OVEN AND NATURAL GAS FOR INJECTION IN BLAST FURNACES 67-10 M04-79696
SMELTING FERROSILICON IN LARGE BLAST FURNACES. --REPORT FROM THE NIZHNE-TAGIL PLANTS GROUP-- 67-10 M04-79825
REDUCTION KINETICS IN TITANIFEROUS SLAGS 67-10 M04-79948
ON DEGRADATION OF SINTER DURING CHEMICAL REDUCTION 67-10 M04-79991
STUDY OF THE BLAST FURNACE PROCESS ON AN EXPERIMENTAL FURNACE 67-10 M04-80038
USE OF OXYGEN TO SMELT VARIOUS TYPES OF IRON AT THE LENIN METALS PLANT GROUP IN NIZHNE-TAGIL 67-10 M04-80039
ACQUIRING AND INCORPORATING LIQUID FUEL BLAST FURNACE KNOW-HOW 67-10 M04-80040
LIQUID FUEL-ASSISTED HEATING OF VANADIUM IRON IN THE BLAST FURNACE 67-10 M04-80041
EXPERIMENTAL BLAST FURNACE DESIGNED BY NIZHNE-TAGIL METALS WORKS AND THE URALS FERROUS METALS RESEARCH INSTITUTE 67-10 M04-80042
UTILIZATION OF BAKAL SIDERITES IN BLAST FURNACE PRACTICE 67-10 M04-80078
BLAST FURNACE THERMAL PATTERNS ANALYZED AT THE MAGNITOGORSK GROUP DURING NATURAL GAS TRIALS 67-10 M04-80079
MANUFACTURE OF STAINLESS STEEL IN THE TOP-BLOWN OXYGEN CONVERTER 67-11 M04-80563
EFFECT OF STEAM AND CARBON DIOXIDE ON THE REDUCTION OF AGGLOMERATES BY CARBON MONOXIDE 67-11 M04-80848
SLAG CONDITIONS IN THE PRODUCTION OF FERROMANGANESE IN LARGE BLAST FURNACES 67-11 M04-80849
REDUCTION PROCESSES IN BLAST FURNACES OF ORSK-KHALILOVO COMBINE 67-11 M04-80910
NUMBER OF TUYERES ON A BLAST FURNACE 67-11 M04-80911
CERTAIN FACTORS AFFECTING GAS STATIC PRESSURE GRADIENTS OVER THE FURNACE HEIGHT 67-11 M04-81015
CONTROL AND REGULATING PERIPHERAL AND RADIAL VARIANCE IN GAS FLOW PATTERNS IN THE BLAST FURNACE BY MEANS OF TOP GAS TEMPERATURE 67-11 M04-81017
PROCESS TECHNOLOGY IN THE IRON AND STEEL INDUSTRY 67-11 M04-81132
DISTRIBUTION OF ELEMENTS IN BLAST FURNACE SMELTING OF TITANOMAGNETITES 67-11 M04-81149
GAS FLOW PATTERNS IN BLAST FURNACE TOPS 67-11 M04-81217
HEARTH WORK DURING RUNNING-IN OF A 2000 M3 BLAST FURNACE 67-11 M04-81311
BLAST FURNACE OPERATES ON FLUXED SINTER WITH COAL DUST INJECTED TO THE HEARTH 67-11 M04-81314
EXPERIMENTAL STUDY OF HEAT LOSS DISTRIBUTION OVER THE FURNACE HEIGHT 67-11 M04-81328
MATHEMATICAL DESCRIPTION OF HEAT AND MASS EXCHANGE PHENOMENA IN THE BLAST FURNACE 67-11 M04-81330
HOW PERIODICITY OF CHARGING AFFECTS BLAST FURNACE TOP GAS TEMPERATURE AND ITS ACCURATE MEASUREMENT 67-11 M04-81458
ASPECTS OF GAS TEMPERATURE DETERMINATION IN THE UPPER REACHES OF THE BLAST FURNACE 67-11 M04-81459
HOW LOCAL ADDITIONS OF FUEL OIL AND WATER VAPOR AFFECT COKE COMBUSTION IN THE BLAST FURNACE TUYERE BELT 67-11 M04-81460
ANALYTICAL CALCULATION OF CERTAIN TECHNOLOGICAL FACTORS AND SINTER GRADE AFFECTING BLAST FURNACE PERFORMANCE 67-11 M04-81462
RESEARCH IMPROVES RAW MATERIAL HANDLING TECHNIQUES 67-11 M04-81493
ISOTOPES AND NUCLEAR RADIATION FOR CONTROL AND AUTOMATION OF FERROUS METALLURGICAL PROCESSES 67-11 M04-81606
USE OF REFORMED GAS IN BLAST FURNACE MELTING 67-11 M04-81645
STUDY OF THE PHYSICAL PROPERTIES OF BLAST FURNACE SLAGS DURING SMELTING WITH BAKAL SIDERITES 67-11 M15-81416
RADIOGRAPHIC DETERMINATION OF MOISTURE IN COKE--A FURTHER STEP IN THE RATIONALIZATION AND AUTOMATION OF BLAST FURNACE OPERATION 67-11 M19-80336
THE PROBLEM OF MEASURING THE STATIC PRESSURE OF GAS IN THE HEARTH OF A BLAST FURNACE 67-12 M04-81704
MORE EFFICIENT BLAST FURNACE OPERATIONS 67-12 M04-81787
METHOD OF PREPARING RED SLURRY OR A MIXTURE CONTAINING RED SLURRY OF ALUMINA PRODUCTION FOR BLAST FURNACE MELTING 67-12 M04-81790
INVESTIGATION OF THE SUITABILITY OF PREREDUCED PELLETS AS BLAST FURNACE BURDEN 67-12 M04-82664
CALCULATING THE SPECIFIC COKE RATE IN IRONMAKING 67-12 M04-83459
AUXILIARY FUELS FOR THE BLAST FURNACE 67-12 M04-83591
RELATIONSHIP BETWEEN THE STRUCTURES OF SOLID BLAST-FURNACE SLAGS AND THE PHYSICAL PROPERTIES OF THE MOLTEN SLAGS 67-12 M15-82406

BLAST FURNACE PRACTICE, AUTOMATIC CONTROL

MODIFICATIONS IN BLAST FURNACE CONTROL AND METERING EQUIPMENT TO IMPROVE BASIC PROCESS PARAMETER ADJUSTMENT 67-01 M04-58286
ANALOG-CODE AND CODE-ANALOG CONVERTERS AND INFORMATION COMMUTATORS FOR URAL-2 67-08 M04-74897

BLAST FURNACE PRACTICE, AUTOMATION

CALCULATING THE INDEXES OF BLAST FURNACE HEAT STATE 67-02 M04-60054
TWO EXAMPLES OF COMPUTER USE IN THE IRON MAKING INDUSTRY 67-04 M04-66675
AUTOMATION DETAILS OF NO. 6 BLAST FURNACE AT THE GOTTWALD PLANT IN WITKOWICE 67-04 M04-67876
NEW SYSTEM FOR THE AUTOMATION OF THE BLAST FURNACE PROCESS 67-05 M04-69067
BLAST FURNACE CHARGING 67-05 M04-69171
SOME CONSIDERATIONS RELATING TO BLAST FURNACE AUTOMATION. PT. 3. EXAMINATION OF BLAST FURNACE OPERATION 67-06 M04-72400
BLAST FURNACE CHARGING 67-07 M04-73327
BLAST FURNACE AUTOMATION 67-08 M04-74466
AUTOMATIC REGULATION AND CONTROL OF BLAST FURNACE HEAT 67-08 M04-75792
AUTOMATIC CHARGING OF BLAST FURNACES 67-08 M04-75793
CONTROL AND AUTOMATION OF THE BLAST FURNACE 67-09 M04-76393
INNOVATIONS IN A BLAST FURNACE AT RUHRORT AND FIRST OPERATIONAL RESULTS 67-09 M04-76501
INTEGRATED AUTOMATIC STOVE CHANGING AND COMBUSTION SYSTEMS 67-09 M04-76673
AUTOMATION AND PROCESS CONTROL OF BLAST FURNACES AND OXYGEN-BLOWN STEEL WORKS 67-09 M04-77579
REMOTE CONTROL METHODS IN AUTOMATED BLAST FURNACE OPERATION 67-10 M04-79583
COMPUTER LINK-UP WITH PICKUPS, SECONDARIES AND REGULATORS 67-11 M04-81018
AUTOMATIC AVERAGING AND RECORDING OF LOW-FREQUENCY ALTERNATING PARAMETERS IN A BLAST FURNACE HEAT 67-11 M04-81019
FUNDAMENTALS OF AUTOMATIC CONTROL AND ADJUSTMENT OF THE BLAST FURNACE PROCESS 67-11 M04-81215
DISTURBANCE OF AUTOMATIC BLAST FURNACE CONTROL PULSES BY INTERFERENCE 67-11 M04-81216
BLAST FURNACE PARAMETERS FOR AUTOMATIC CONTROL AND THERMAL ADJUSTMENT 67-11 M04-81235
COMPUTERIZED CONTROL OF THE BLAST FURNACE --PILOT SYSTEM-- 67-11 M04-81461
AUTOMATION OF BLAST FURNACE AND PURE OXYGEN CONVERTER OPERATION--FRENCH ACHIEVEMENTS 67-12 M04-83203
AUTOMATIC THERMAL CONTROL FOR BLAST FURNACE HEATS 67-12 M04-83464

BLAST FURNACE PRACTICE, CHARGING

EFFECT OF THE POSITION OF THE CHARGING FUNNEL ON BLAST FURNACE PRODUCTIVITY 67-02 M04-62137
AN AUTOMATIC METER FOR MEASURING CHARGE CONTOUR IN A BLAST FURNACE 67-02 M04-62138

BLAST FURNACE PRACTICE, CHEMICAL ANALYSIS

AUTOMATED CONTINUOUS ANALYSIS OF BLAST FURNACE GAS BY MEANS OF PROCESS GAS CHROMATOGRAPHY 67-05 M02-69361

BLAST FURNACE PRACTICE, DESULFURIZING

DESULFURIZATION OF IRON IN THE BLAST FURNACE HEARTH WHEN OPERATING WITH LOW-SLAG YIELD 67-01 M04-57173

BLAST FURNACE PRACTICE, DUST CONTROL

DUST EXTRACTION FROM CUPOLAS BY MEANS OF VENTURI TUBE SCRUBBERS 67-07 M04-73109

BLAST FURNACE PRACTICE

BLAST FURNACE PRACTICE, FUEL CONSUMPTION
OPTIMUM CONSUMPTION OF NATURAL GAS IN BLAST FURNACE MELTING 67-04 M04-67603
BLAST FURNACE PRACTICE, FUELS
OPTIMUM NATURAL GAS RATE IN BLAST FURNACE HEATS 67-09 M04-77037
BLAST FURNACE PRACTICE, GAS ANALYSIS
THE REDUCING WORK OF GASES IN THE SHAFT OF A BLAST FURNACE WHEN NATURAL GAS IS USED 67-02 M04-61862
BLAST FURNACE PRACTICE, GAS FLOW
AUTOMATIC CONTROL OF GAS DISTRIBUTION ACROSS A BLAST FURNACE USING CHARGING SYSTEMS 67-01 M04-57250
OPTIMUM SMELTING RATES AND GAS DISTRIBUTION. --FROM THE BLAST FURNACE OPERATING PRACTICE OF THE MAGNITOGORSK COMBINE AND THE CHEREPOVETS WORK 67-02 M04-58854
BLAST FURNACE PRACTICE, HEAT BALANCE
RAISING THE TEMPERATURE OF THE BLAST BY CONVERTING THE AIR HEATERS TO PAIRED-PARALLEL OPERATION 67-07 M04-73773
ELEVATION OF BLAST TEMPERATURE BY CONVERTING HOT-BLAST STOVES TO STAGGERED-PARALLEL OPERATION 67-09 M04-76536
BLAST FURNACE PRACTICE, PROCESS CONTROL
STOCKLINE MEASUREMENT IN BLAST FURNACES WITH RADIOACTIVE ISOTOPES . 67-07 M04-72712
BLAST FURNACE PRACTICE, REACTION KINETICS
MATERIAL TRANSFER BETWEEN THE GAS STREAM AND THE ORE IN A BLAST FURNACE 67-08 M04-75657
BLAST FURNACE PRACTICE, REACTIONS /CHEMICAL/
SULFUR IN INDUSTRIAL COKE AND ITS BEHAVIOR IN BLAST FURNACE MELTING 67-02 M04-59858
HOW SLAG COMPOSITION AND CONVERSION IRON TEMPERATURE AFFECT SILICON REDUCTION IN THE BLAST FURNACE 67-11 M04-81329
BLAST FURNACE PRACTICE, REDUCTION /CHEMICAL/
REDUCTION AND SLAG-FORMATION IN BLAST FURNACE WHEN OPERATING ON A CHARGE CONTAINING MAGNETITE-SILICATE ORES 67-01 M04-57174
BLAST FURNACE PRACTICE, THERMAL MEASUREMENTS
DEGREE OF ERROR IN MEASURING TEMPERATURE IN AUTOMATICALLY CONTROLLED HEATING 67-04 M10-67623
BLAST FURNACE REFRACTORIES
SEE BLAST FURNACE COMPONENTS REFRACTORIES
BLAST FURNACE STOVES
INTEGRATED AUTOMATIC STOVE CHANGING AND COMBUSTION SYSTEMS 67-09 M04-76673
BLAST FURNACES
THE BLAST FURNACE, AN EXAMPLE OF A CHEMICAL REACTOR OPERATING WITH A CONSUMABLE BURDEN 67-02 M04-60818
FORMATION OF ALKALI SILICATES AND ALUMINO-SILICATES AND THEIR OCCURRENCE IN BLAST FURNACES 67-04 M14-66139
HOT REPAIRS TO FURNACES USING THE NOZZLE-MIX METHOD. PT. 1. --STUDY OF HOT REPAIRS TO STEELMAKING FURNACES-- 67-06 M01-72273
REFRACTORY RECOMMENDATIONS FOR BLAST FURNACE STOVES 67-12 M04-82651
TEMPERATURE DISTRIBUTION IN B-G-BELL HOPPER OF A BLAST FURNACE 67-12 M04-83417
BLAST FURNACES, AUTOMATION
AN AUTOMATIC SYSTEM FOR CONTROLLING THE SKIP HOIST OF A BLAST FURNACE BY AN ELECTRICAL DRIVE WITH CONTACTLESS LOGIC ELEMENTS 67-08 M04-76265
AUTOMATIC CONTROL SYSTEM FOR ELECTRIC DRIVE OF A BLAST-FURNACE SKIP HOIST WITH CONTACTLESS LOGICAL UNITS 67-10 M04-79258
BLAST FURNACES, CHARGE PREPARATION
PREPARATION OF THE BLAST-FURNACE BURDEN 67-06 M02-72005
BLAST FURNACES, CHARGING
A SINGLE-BELL CHARGING APPARATUS FOR BLAST FURNACES 67-02 M04-61864
SINGLE-BELL BLAST-FURNACE CHARGING GEAR 67-04 M04-67683
COMPARATIVE INVESTIGATION INTO THE PERFORMANCE OF VARIOUS GRADES OF PELLETS AND SINTER IN THE BLAST FURNACE 67-07 M04-72706
CERTAIN FACTORS IN THE TECHNOLOGY FOR CASTING BLAST-FURNACE CHARGING BELLS AND HOPPERS 67-07 M04-74138
BLAST FURNACES, CLEANING
IMPROVEMENT OF PRODUCTIVITY IN TSURUMI NO. 1 BLAST FURNACE 67-09 M04-77329
BLAST FURNACES, COOLING
OPERATING TEMPERATURES ON A SPRAY-COOLED AND UNDER-COOLED CARBON HEARTH BLAST FURNACE 67-09 M04-76499
BLAST FURNACES, CORROSION
CORROSION OF WET GAS SCRUBBERS OF BLAST FURNACES AND CONVERTERS 67-02 M04-61950
CORROSION OF SCRUBBERS IN PLANT FOR THE WET CLEANING OF BLAST-FURNACE AND CONVERTER GASES 67-04 M04-67784
BLAST FURNACES, DESIGN
MAINTENANCE AND DESIGN TRENDS FOR MODERN BLAST FURNACES. PT. 5 67-06 M04-71320
MAINTENANCE AND DESIGN TRENDS FOR MODERN BLAST FURNACES. PT. 6 67-07 M04-73842
NEW STOCKLINE ARMOR DESIGN. VARIABLE-DIAMETER STOCKLINE ARMOR FOR BLAST FURNACES 67-08 M04-74468
DESIGN CONTROL OF SALAMANDER PENETRATION IN BLAST FURNACE HEARTHS 67-08 M04-75317
DESIGN SOLUTIONS IN TERMS OF A 1085 M3 BLAST FURNACE 67-09 M04-76710
DESIGNING BLAST FURNACE PROFILES FOR EFFICIENCY 67-11 M04-81304
BLAST FURNACES, EFFICIENCY
COMPARATIVE ASSESSMENT OF THE PRODUCTION PERFORMANCE OF BLAST FURNACES 67-07 M04-72562
BLAST FURNACES, GAS FLOW
EFFECT OF TUYERE GAS COMPOSITION ON GAS FLOW PARAMETERS IN THE BLAST FURNACE 67-02 M04-60723
EFFECT OF THE CHARACTERISTICS OF BLAST SUPPLY ON THE DISTRIBUTION OF GAS FLOW IN THE MELTING STOCK COLUMN 67-03 M04-65956
BLAST FURNACES, LINERS
WHAT CAUSES REFRACTORY WEAR 67-01 M17-57435
THE FOURTH RECONSTRUCTION PROGRAM OF MURORAN NO. 2 BLAST FURNACE. PT. 2. RECONSTRUCTION AND OPERATION 67-02 M04-60755
BLAST FURNACES, MAINTENANCE
REPLACING LARGE BELL OF WAKAYAMA NO. 1 BLAST FURNACE 67-02 M04-58842
ELECTROSLAG WELDING OF BLAST FURNACE JACKETS 67-10 M11-78420
BLAST FURNACES, REFRACTORIES
THE LIFE OF CARBON BLOCKS IN THE HEARTH OF HIGH-CAPACITY BLAST FURNACES 67-01 M04-57251
HIGH-DENSITY REFRACTORIES FOR BLAST FURNACE MADE OF KAOLINE FROM THE NOVOSELITSK DEPOSITS 67-04 M05-66584
INVESTIGATIONS OF WEAR PHENOMENA OF BLAST FURNACE LININGS 67-06 M04-70975
BLAST FURNACES, SEALING
CHARGING EQUIPMENT FOR BLAST FURNACES 67-02 M04-61066
BLAST FURNACES, SLAGS
FORMS OF THE BONDING OF SULFUR IN BLAST FURNACE SLAGS 67-01 M04-57918
BLAST FURNACES, TAPPING /METAL/
NEW ANHYDROUS MASS FOR SEALING TAPPING HOLES OF BLAST FURNACES 67-01 M04-57149
BLAST FURNACES, TEMPERATURE CONTROL
TEMPERATURE FIELD OF THE LARGE BELL CUP OF THE BLAST FURNACE 67-10 M04-78419
BLAST FURNACES, THERMAL PROPERTIES
HEAT LOSSES IN HEATING THE BLAST FURNACE BLAST 67-02 M04-59587
CONTROL OF HEATING IN THE LOWER PART OF THE BLAST FURNACE 67-02 M04-59646
BLAST FURNACES, WEAR
INVESTIGATION OF THE FAILURE OF THE BLAST FURNACE HEARTH BOTTOM. PT. 2 67-02 M04-61206
CAUSES OF THE FORMATION OF BLOWOUTS IN CHARGING EQUIPMENT OF BLAST FURNACES 67-02 M04-62283
TRANSVERSE VIBRATIONS OF THE LARGE BELL OF THE BLAST FURNACE CHARGING APPARATUS 67-06 M04-71241
WHY REFRACTORIES WEAR 67-06 M05-70845
BLAST FURNACES, WELDING
ELECTROSLAG WELDING OF STACK SHELL OF A BLAST FURNACE 67-12 M11-83418
BLASTING
SEE ABRASIVE BLASTING
BLAST CLEANING
GRIT BLAST CLEANING
GRIT BLASTING
SANDBLASTING
SHOT BLASTING

BLISTERING
NOTES ON WET PROCESS CAST IRON ENAMELLING 67-03 M12-65930
STUDIES OF THE BLISTERS ON THE PLATED SURFACE OF ZINC ALLOY DIE CASTINGS 67-08 M18-74923
SCALE BLISTERS ON FERROUS ALLOYS 67-12 M18-83216
BLISTERING, RADIATION EFFECTS
SURFACE BLISTERING OF METALS DUE TO LOW ENERGY HYDROGEN BOMBARDMENT 67-06 M16-70612
BLOCKS /ENGINE/
SEE ENGINE BLOCKS
BLOOMING /ROLLING/
SEE METAL ROLLING
BLOOMING MILLS
ROLLING TWO-LAYER INGOTS OF L53-KH6F1 STEELS ON A BLOOMING MILL 67-02 M07-58877
A NEW BEAM MILL 67-02 M07-60695
METHODS OF IMPROVING THE TECHNOLOGY OF PRODUCING BILAYER SHEET STEEL 67-02 M07-61948
HOT METAL SCARFING MACHINE INCORPORATED IN PRODUCTION LINE OF BLOOMING MILL 67-04 M07-66213
MEANS OF IMPROVING THE MANUFACTURE OF TWO-PLY STEELPLATE 67-04 M07-67777
ON THE IMPORTANCE OF THE PASS SEQUENCE IN THE AUTOMATION OF A BLOOMING MILL 67-05 M07-68540
BLOOM REHEATING FURNACE 67-06 M07-70242
OPTIMIZATION OF THE ROLLING PRACTICE IN REVERSING BLOOMING-SLABBING MILL TRAINS OPERATING IN THE RANGE OF ARMATURE VOLTAGE 67-10 M07-78696
OPTIMIZED ROLLING PRACTICE ON BLOOMING-SLABBING MILLS IN THE WEAKENING FIELD RANGE OF THE MAIN DRIVE 67-10 M07-78697
BLOOMING MILLS, AUTOMATIC CONTROL
ALGORITHM FOR CALCULATING REDUCTION IN A BLOOMING MILL 67-02 M07-61217
BLOOMING MILLS, AUTOMATION
CONTROL ALGORITHMS FOR A SYSTEM OF AUTOMATION OF ROLLING IN SLABBING AND BLOOMING MILLS 67-02 M07-60734
EXPERIENCE GAINED WITH A FULLY PROGRAMMED BLOOMING MILL 67-10 M07-78699
DIGITAL COMPUTER FOR A TELEVISION GAGE FOR MEASURING THE LENGTH OF HOT BLOOMS 67-10 M07-80054
BLOOMING MILLS, STRESSES
INVESTIGATION OF THE NEW 900/700/500 CONTINUOUS BILLET MILL 67-05 M07-69689
BLOOMING MILLS, WELDING
RECLAMATION OF STEEL MILL ROLLS 67-06 M11-71826
BLOOMS /METAL/
IMPROVING THE PRODUCTIVITY OF METAL FLAME SCARFING 67-04 M08-66619
BLOOMS /METAL/, CASTING
CONTINUOUS CASTING OF VERY LARGE SECTIONS AT SHELTON 67-06 M04-72026
CONTINUOUS CASTING PLANT AT MURORAN WORKS 67-11 M04-80501
BLOOMS /METAL/, CLEANING
MACHINE FOR FLAME SCARFING OF HOT BLOOMS AND SLABS 67-09 M12-76834
BLOOMS /METAL/, CUTTING
CUTTING RESISTANCE OF CERTAIN GRADES OF STEEL ON HOT SAW SHEARS 67-02 M08-62267
BLOOMS /METAL/, HEAT TREATMENT
SLABS LEAVE FURNACE WITHOUT SCALE 67-10 M10-78860
BLOOMS /METAL/, HEATING
BLOOM REHEATING FURNACE 67-06 M07-70242
BLOOMS /METAL/, NONDESTRUCTIVE TESTING
FINISHING OF INTERMEDIATE PRODUCTS 67-02 M12-62069
PROGRESS IN ULTRASONIC INSPECTION OF STEELS AT HIGH TEMPERATURE 67-02 M19-62035
BLOOMS /METAL/, ROLLING
ON THE IMPORTANCE OF THE PASS SEQUENCE IN THE AUTOMATION OF A BLOOMING MILL 67-05 M07-68540
BLOW MOLDING
MOLDS FOR BLOW MOLDING 67-06 M06-70032
BLOWHOLES
ELECTRON MICROSCOPE OBSERVATIONS OF GAS BUBBLES IN NEUTRON IRRADIATED AL-LI ALLOYS 67-04 M13-66603
INFLUENCE OF THE OXYGEN CONTENT IN LIQUID METAL AND POURING RATE ON THE STRUCTURE OF SEMIKILLED STEEL INGOTS 67-05 M04-69900
ESTIMATION OF THE SKIN THICKNESS OF RIMMED STEEL INGOTS 67-06 M04-72289
BLOWHOLES IN ALUMINUM-KILLED NITROGEN-ALLOYED STEEL INGOTS AND WELDING-UP OF BLOWHOLES BY ROLLING 67-06 M19-72395
EFFECT OF THE POURING SEQUENCE ON THE STRUCTURE OF RIMMED-STEEL INGOTS 67-07 M06-73264
MECHANISM OF FORMATION OF CARBON MONOXIDE BLOWHOLES IN INGOTS DURING SOLIDIFICATION. PT. 1. STUDY OF SOLIDIFICATION STRUCTURES OF SEMIKILLED STEEL INGOTS 67-07 M14-72572
SOURCES OF BLOWHOLES IN CYLINDER HEAD CASTINGS FOR THE DT-54 ENGINE 67-08 M06-74544
OBSERVATIONS OF THE EFFECT ON SURFACES OF EROSION AND CAVITATION 67-10 M18-78466
BLOWHOLES, RADIATION EFFECTS
GRAIN BOUNDARY MIGRATION AND GROWTH OF GAS BUBBLES IN NEUTRON IRRADIATED AL-LI ALLOYS 67-07 M14-74197
BLOWING
MELTING PRACTICE FOR HIGH CARBON STEEL MADE BY THE BASIC OXYGEN LD PROCESS 67-05 M04-68729
THE SUPERSONIC FLOW CONDITIONS FOR GASEOUS OXYGEN AT A LAVAL NOZZLE. PT. 1. --KINETICS OF BLOWING REACTIONS IN BASIC OXYGEN LD FURNACES-- 67-06 M01-72274
PERFORMANCE OF MULTIHOLE COMPARED WITH SINGLE-HOLE LANCE NOZZLES IN BASIC OXYGEN LD STEELMAKING. PT. 2. STUDY OF LANCE NOZZLES IN BASIC OXYGEN LD PROCESS 67-06 M04-72205
THE DROP IN TEMPERATURE BETWEEN THE END POINT OF THE BLOW AND THE TAP IN THE BASIC OXYGEN LD PROCESS. PT. 1. THE TEMPERATURE DROP BETWEEN END POINT OF BLOW AND POURING IN THE BASIC OXYGEN LD PROCESS 67-06 M04-72387
FACTORS AFFECTING THE WEAR RATE OF THE REFRACTORY LINING OF LD CRUCIBLES 67-07 M04-73117
POURING HIGHER CARBON RIMMING STEELS WITH THE ADDITION OF OXYGEN TO THE METAL STREAM 67-07 M04-73265
EFFECTS OF BLOWING CONDITIONS ON BLOWING REACTIONS IN LD-CONVERTER 67-09 M04-77330
BLUE BRITTLENESS
EFFECT OF THE STRAIN RATE ON THE PLASTIC SHEARING BEHAVIOR OF A MILD STEEL HOLLOW CYLINDER --STUDY ON THE DEPENDENCE OF MECHANICAL PROPERTIES OF METALS UPON THE STRAIN RATE. PT. 3. -- 67-07 M17-72523
COMPRESSIVE STRENGTH OF MILD STEEL AT HIGH STRAIN RATE AND AT HIGH TEMPERATURE 67-10 M17-79877
EFFECT OF DEFORMATION RATES ON STRAIN AGING TEMPERATURE AND DISLOCATION DENSITY IN CARBON STEEL 67-12 M17-83526
BLUNGING
SEE MIXING
BOATS
MARINE APPLICATIONS 67-08 M20-74830
BODY CENTERED CUBIC LATTICE
STRUCTURE OF VERY THIN TANTALUM AND MOLYBDENUM FILMS 67-02 M14-61826
THE STRUCTURE AND OCCURRENCE OF THE METASTABLE MONOCLINIC PHASE, ALPHA DOUBLE PRIME B IN URANIUM-MOLYBDENUM ALLOYS 67-03 M13-65850
KIKUCHI MAPS FOR HCP AND BCC CRYSTALS 67-05 M13-69221
NUCLEAR MAGNETIC RESONANCE AND SPECIFIC HEAT MEASUREMENTS OF TRANSITION METALS AND ALLOYS.. TI-V-FE AND ZR-NB-MO SYSTEMS 67-05 M16-69758
THE MECHANISM OF RIDGING IN FERRITIC STAINLESS STEELS 67-06 M13-71077
DISSOCIATED DISLOCATIONS AND THE SCHMID LAW OF RESOLVED SHEAR STRESS IN BCC METALS 67-06 M14-71521
SLIP AND THE CONCEPTION OF SPLITTING OF DISLOCATIONS IN BCC METALS 67-06 M14-71522
BODY-CENTERED CUBIC DERIVATIVE STRUCTURES 67-07 M13-73670
STRUCTURE OF MARTENSITE 67-07 M14-72634
THE INFLUENCE OF ELASTIC ANISOTROPY ON SOME PROPERTIES OF GLIDE DISLOCATIONS IN BCC CRYSTALS 67-08 M13-75330
EPITAXIAL GROWTH OF IRON ON TUNGSTEN FIELD EMISSION POINTS 67-10 M14-79573
MOBILITY OF --100-- AND --110-- DISLOCATIONS IN BCC IRON 67-11 M13-80106
THE SOLID-PHASE TRANSFORMATION IN HAFNIUM 67-11 M13-81202
MIGRATION ENERGY AND SOLUBILITY OF OXYGEN IN BODY

BODY CENTERED CUBIC LATTICE

CENTERED CUBIC IRON 67-11 M14-80375
MARTENSITE-TO-FCC REVERSE TRANSFORMATION IN AN FE-NI ALLOY 67-11 M14-81341
DIFFUSION MECHANISMS IN ORDERED BODY-CENTERED CUBIC ALLOYS 67-11 M14-81590
STEEL AND TEMPERATURE 67-11 M15-81538
X-RAY K ABSORPTION EDGES OF ALLOYS. PT. 1. CORRELATION TO BAND MODELS 67-11 M16-80118
FORMATION OF DIVACANCIES DURING QUENCHING AND ANNEALING IN BODY-CENTERED-CUBIC METALS 67-11 M16-81480
QUENCHING OF METALS CONTAINING IMPURITY. PT. 2. SUBSTITUTIONAL IMPURITY IN BODY-CENTERED-CUBIC METALS 67-12 M13-82522
CRYSTALLOGRAPHY OF THE FCC TO BCC MARTENSITIC TRANSFORMATION IN AN IRON-PLATINUM ALLOY 67-12 M14-82865

BODY CENTERED CUBIC LATTICE, BAND THEORY
ON THE D-BAND STRUCTURE OF BCC FE 67-07 M16-73995

BODY CENTERED CUBIC LATTICE, BRITTLENESS
EFFECT OF STACKING FAULT ENERGY ON THE COLD SHORTNESS OF METALS WITH A B. C. C. LATTICE 67-05 M17-68849

BODY CENTERED CUBIC LATTICE, CRYSTAL LATTICES
STRESS DEPENDENCE OF DISLOCATION CONFIGURATION IN DEFORMED NIOBIUM 67-07 M13-73930
STRESS AND DILATATION FIELDS OF THE --111-- DISLOCATION IN CUBIC CRYSTALS 67-08 M13-75115
THE INTERACTIONS BETWEEN INTERSTITIALS AND THEIR ORDERING 67-08 M14-75078

BODY CENTERED CUBIC LATTICE, DEFECTS
THERMALLY ACTIVATED MOTION OF SCREW DISLOCATIONS IN B. C. C. METALS 67-03 M13-65219
DISLOCATION THEORY OF SLIP GEOMETRY AND TEMPERATURE DEPENDENCE OF FLOW STRESS IN B. C. C. METALS 67-03 M13-65220

BODY CENTERED CUBIC LATTICE, DIFFUSION
THE DIFFUSION ACTIVATION ENERGY OF INTERSTITIAL ELEMENTS IN TRANSITION METALS WITH A BODY-CENTERED LATTICE 67-04 M14-67916
DIFFUSION MECHANISM IN BODY-CENTERED CUBIC METALS 67-06 M14-72066
THE POSITION ENERGY AND ACTIVATION ENERGY OF DIFFUSION OF INTERSTITIAL IMPURITIES 67-08 M14-75077
SURFACE DIFFUSION IN BCC AND FCC METALS 67-09 M14-76367
INTERSTITIAL DIFFUSION IN THE BCC LATTICE 67-12 M14-82965

BODY CENTERED CUBIC LATTICE, DISLOCATIONS
KINETICS OF DISLOCATIONS NON-UNIFORMLY DISTRIBUTED IN A BODY CENTERED CUBIC LATTICE 67-01 M13-57338

BODY CENTERED CUBIC LATTICE, HARDENING
PRECIPITATION HARDENING IN BCC BINARY ALLOYS. PROGRESS REPORT TO MARCH 1966 67-04 M10-68160

BODY CENTERED CUBIC LATTICE, MAGNETIC PROPERTIES
THE EFFECT OF SUBLATTICE ORDER IN BINARY ALLOYS WITH ONE MAGNETIC COMPONENT. PT. 3 67-06 M15-71286

BODY CENTERED CUBIC LATTICE, MECHANICAL PROPERTIES
STRUCTURE AND HIGH-STRENGTH METALS 67-03 M17-65329
MECHANICAL PROPERTIES OF HIGH-PURITY METALS 67-04 M17-67818
SOURCE OF LOW-TEMPERATURE ELASTIC LIMIT OF CUBIC CENTERED METALS 67-05 M17-69466
THE EFFECT OF FREE DISLOCATIONS ON YIELDING AND FRACTURE IN BODY-CENTERED CUBIC METALS 67-06 M17-70624
ORIENTATION DEPENDENCE OF YIELD IN BODY-CENTERED CUBIC METALS 67-06 M17-71531
MICROSTRAIN BEHAVIOR OF BODY-CENTERED CUBIC METALS 67-06 M17-71533
THE APPLICATION OF STRAIN-RATE CYCLING DATA TO THERMALLY ACTIVATED DEFORMATION 67-07 M17-73914
SUCCESSIVE STRESS RELAXATION OBSERVED ON MOLYBDENUM POLYCRYSTALS IN PRE-YIELD REGION 67-07 M17-73985
YIELDING AND FRACTURE IN SOME BODY-CENTERED CUBIC METALS 67-08 M17-74517
DIFFUSIONAL STRESS RELAXATION IN POLYMORPHOUS TRANSFORMATION 67-08 M17-74638

BODY CENTERED CUBIC LATTICE, METAL WORKING
MATERIAL ASPECTS OF HIGH ENERGY RATE DEFORMATION AT AMBIENT AND ELEVATED TEMPERATURES 67-05 M17-69743

BODY CENTERED CUBIC LATTICE, PHASES /STATE OF MATTER/
BONDING AS INTERPRETED BY SPATIAL CORRELATION OF ELECTRONS 67-07 M14-73666

BODY CENTERED CUBIC LATTICE, PHYSICAL PROPERTIES
THE INFLUENCE OF THE OXYGEN ADSORPTION ON THE SURFACE ENERGY OF FCC NICKEL AND BCC SILICON IRON 67-07 M15-73927

BODY CENTERED CUBIC LATTICE, RADIATION EFFECTS
RADIATION DAMAGE IN BODY-CENTERED METALS 67-04 M16-67314

BODY CENTERED CUBIC LATTICE, SUPERCONDUCTIVITY
SUPERCONDUCTING TRANSITIONS IN BODY-CENTERED CUBIC THALLIUM-INDIUM ALLOYS 67-05 M16-69520

BODY CENTERED CUBIC LATTICE, THERMODYNAMICS
USE OF DEFORMATION RATE MEASUREMENTS IN THERMODYNAMICS 67-04 M13-67258
ENTROPY, LATTICE PARAMETERS AND HIGH-TEMPERATURE PHENOMENA OF METALS 67-06 M13-71074
LOW TEMPERATURE SPECIFIC HEAT OF BCC ALLOYS OF 3D TRANSITION ELEMENTS WITH 20 PER CENT AL 67-07 M15-73630

BODY CENTERED CUBIC LATTICE, X RAY DIFFRACTION
TWINNING AND SOME ASSOCIATED DIFFRACTION EFFECTS IN CUBIC AND HEXAGONAL METALS. PT. 1. SELECTION RULES FOR TWINNING IN FCC, BCC AND HCP LATTICES 67-06 M13-71610
TWINNING AND SOME ASSOCIATED DIFFRACTION EFFECTS IN CUBIC AND HEXAGONAL METALS. PT. 2. DOUBLE DIFFRACTION 67-06 M13-71611

BODY CENTERED ORTHORHOMBIC LATTICE
SEE ORTHORHOMBIC LATTICE

BODY CENTERED TETRAGONAL LATTICE
SEE TETRAGONAL LATTICE

BOHR MAGNETONS
SEE MAGNETIC MOMENT

BOHR MODEL
SEE ATOMIC STRUCTURE

BOILER FURNACES, CORROSION
STUDY ON LOW-TEMPERATURE CORROSION IN ACTUAL HEAVY OIL-FIRED BOILERS 67-01 M18-58696

BOILER PLATE
RH DEGASSING UNIT FOR PLATE STEELS AT APPLEBY-FRODINGHAM 67-04 M04-67753

BOILER PLATE, CASTING
PRODUCTION AND CONTINUOUS CASTING OF BOILER PLATE STEEL 67-10 M04-79665

BOILER PLATE, MECHANICAL PROPERTIES
EFFECT OF HEAT TREATMENT ON DUCTILITY OF FERRITIC-PEARLITIC STEELS 67-02 M17-58987
PROPERTIES OF ALLOY STEELS PRODUCED IN A BASIC OXYGEN LD FURNACE. PT. 3. THE PRODUCTION OF ALLOY STEELS IN A BASIC OXYGEN FURNACE 67-07 M17-72551
BRITTLENESS OF CR-MO-V STEEL RESULTING FROM TEMPERING 67-08 M17-76013
INVESTIGATION OF THE EFFECTS OF RARE EARTH ELEMENTS ON THE PROPERTIES OF 12KH1 MF BOILER STEEL 67-10 M17-78954
IMPROVED BOILER-PLATE STEELS 67-11 M17-80277

BOILER PLATE, WELDING
A DEVICE FOR EXTERNAL AUTOMATIC SUBMERGED ARC WELDING OF LONGITUDINAL AND CIRCUMFERENTIAL SEAMS 67-02 M11-60134
AN APPARATUS FOR THE AUTOMATIC SUBMERGED ARC WELDING FROM OUTSIDE 67-04 M11-67674

BOILER SCALE
SEE SCALE /CORROSION/

BOILER TUBES
MANUFACTURE OF STEEL FOR BOILER TUBE IN BOF AND QUALITY THEREOF 67-04 M04-67512

BOILER TUBES, CHEMICAL ANALYSIS
APPARATUS FOR THE MEASUREMENT AND SPECTROCHEMICAL RAPID ANALYSIS OF BOILER TUBING 67-03 M19-65705

BOILER TUBES, CORROSION
THE ALKALI CORROSION OF BOILER TUBES 67-03 M18-65823
MGO INJECTION SLOWS BOILER CORROSION. PT. 2 67-10 M18-79476

BOILER TUBES, EXTRUSION
STAINLESS STEEL EXTRUSION ELIMINATES THERMAL DISTORTION AND CRACKING 67-02 M07-59200

BOILER TUBES, MECHANICAL PROPERTIES
ELEVATED TEMPERATURE STRENGTH OF TUBES AND PIPES FOR HIGH-TEMPERATURE SERVICES 67-08 M17-75808

BOILER TUBES, NONDESTRUCTIVE TESTING

NONDESTRUCTIVE TESTING FOR METALLURGICAL CHANGES IN BOILER TUBES 67-02 M19-60254
ULTRASONIC FLAW DETECTOR FOR SEAMLESS TUBES 67-04 M19-67517
ULTRASONIC WALL THICKNESS GAGING OF BOILER TUBES 67-07 M19-72560
THE EFFECT OF DEFECTS IN BOILER TUBES ON THE APPLICABILITY AND INDICATIONS OF ULTRASONIC TESTING 67-08 M19-75673

BOILER TUBES, WELDING
THE SITUATION REGARDING THE FLASH WELDING OF BOILER TUBES, AND PROSPECTS FOR DEVELOPING THE PROCESS 67-02 M11-60195
WELDING GALVANIZED TUBES TO CARBON STEEL TUBE SHEET 67-03 M11-65300
WELDING OF HEATERS MADE FROM KH5M STEEL 67-04 M11-66470
INTEGRITY OF ATTACHMENT WELDS TO SUPERHEATER TUBING 67-11 M11-80281

BOILERS
WELDING IN THE CONSTRUCTION OF HIGH-PRESSURE VESSELS FOR REACTORS. PT. 2. STEELS FOR REACTOR BOILERS 67-02 M11-61056
FINNING OF TUBES AND FINNED TUBES IN THE PRODUCTION OF STEAM BOILERS WITHOUT WALL CLADDING 67-02 M11-62196
BOILER STEEL PROPERTY REQUIREMENTS 67-11 M20-80285
KINETICS OF STRUCTURAL TRANSFORMATIONS AND FAILURE OF HEAT RESISTANT ALLOYS AT CREEP 67-12 M17-81833

BOILERS, CORROSION
CORROSION RESISTANCE OF SOME METALS IN SULFURIC-ALKALINE BYPRODUCTS OF OIL REFINING 67-02 M18-60996
INVESTIGATIONS ON THE HIGH-TEMPERATURE CORROSION OF OIL-FIRED BOILERS 67-02 M18-62017
HIGH-TEMPERATURE CORROSION TESTS WITH DIFFERENT HEAT RESISTANT MATERIALS IN AN OIL/GAS FIRED INDUSTRIAL BOILER 67-02 M18-62019
ALKALI SULFATE CORROSION IN STEEL RECUPERATORS AND BOILER PLANTS 67-02 M18-62022
CORROSION PHENOMENA AT REFRACTORY TAMPING MASSES IN THE COMBUSTION CHAMBERS OF HIGH-PRESSURE STEAM POWER STATIONS 67-02 M18-62027
RESULTS OF A CONTINUOUS CHECK ON MATERIALS FOR HIGH-TEMPERATURE CORROSION BY MEASURING THE ELECTROMOTIVE FORCE 67-02 M18-62028
COMBUSTION-TECHNOLOGICAL MEASURES TO COMBAT CORROSION IN COAL SMELTING BOILERS 67-02 M18-62029
PREVENTION OF SUPERHEATER CORROSION IN OIL-FIRED HIGH-TEMPERATURE BOILERS 67-02 M18-62030
PREVENTION OF CORROSION ON OIL-FIRED BOILERS BY BURNING THE OIL WITH EXTREMELY LOW EXCESS AIR 67-02 M18-62031
CORROSION-INHIBITING ADDITIVES IN OIL-FIRED BOILERS 67-02 M18-62032
THE RELATIONSHIP BETWEEN CORROSION, STRESS AND THE FE304 LAYERS 67-05 M18-69333
BOILER RESEARCH AT RENFREW 67-08 M01-75704
HOW TO LOWER CORROSION IN BOILERS. PT. 1 67-10 M18-78863

BOILERS, MATERIALS
SELECTION OF MATERIALS FOR BOILERS AND NUCLEAR REACTORS 67-06 M17-72250
MATERIALS AND METALLURGY 67-07 M20-73701

BOILERS, MECHANICAL PROPERTIES
STEEL PLATE FOR BOILERS 67-01 M17-58250
REDUCED SERVICE LIFE OF STRUCTURAL BOILER PARTS WHEN PERMISSIBLE OPERATING TEMPERATURES ARE EXCEEDED 67-06 M17-70083
BRITTLE FRACTURES IN SERVICE 67-06 M17-70561
FAILURE FROM INTERNAL, LAMINAR DEFECTS 67-08 M17-74504
FAILURE OF STEAM PIPE AT LOCAL DEFECTS 67-08 M17-74509
THE DURABILITY OF THE MELTING VESSEL IN THE ZN-DESILVERIZATION OF PB 67-12 M17-82830

BOILERS, NONDESTRUCTIVE TESTING
NEW RESULTS IN ULTRASONIC WELD TESTING AND WALL THICKNESS MEASUREMENTS IN BOILER AND TUBING CONSTRUCTION 67-02 M19-62197
RADIOGRAPHY OF BOILERS AND PRESSURE VESSELS 67-06 M19-70363

BOILERS, STANDARDS
THE SIGNIFICANCE OF 1 PER CENT CREEP DATA 67-11 M17-80287

BOILERS, WELDING
GAS-TIGHT TUBEWALLS AS STRUCTURAL ELEMENTS OF PRESSURE VESSELS 67-06 M11-70460
GAS-TIGHT TUBE WALLS AS STRUCTURAL ELEMENTS IN PRESSURE VESSEL CONSTRUCTION. PT. 1 67-06 M11-70712
GAS METAL-ARC WELDING APPLIED IN MAINTENANCE 67-12 M11-82816

BOILING POINTS
THE BOILING-POINT RELATIONS OF CADMIUM AND ZINC AT ELEVATED PRESSURES 67-03 M15-65208
VAPOUR PRESSURES OF THE RARE EARTH METALS, SCANDIUM AND YTTRIUM 67-12 M15-82127

BOILING WATER REACTORS, CORROSION
USE OF AMMONIA TO SUPPRESS OXYGEN PRODUCTION AND CORROSION IN BOILING-WATER REACTORS 67-06 M18-70489

BOLTED JOINTS
THE BOLTING OF ALUMINIUM 67-01 M11-58298

BOLTED JOINTS, CORROSION
THE BOLTING OF AL 67-04 M11-67066

BOLTS
SEE ALSO STRUCTURAL BOLTS
THE BOLTING OF ALUMINIUM 67-01 M11-58298
THE FUTURE OF FASTENERS 67-03 M11-65455
RIVETING AND OTHER MECHANICAL FASTENING 67-08 M20-74848

BOLTS, COATING
COATING OF BOLTS TO PREVENT SEIZURE 67-03 M18-65986
THE EFFECT OF THERMAL AND MECHANICAL FINAL TREATMENTS ON THE FATIGUE BEHAVIOR OF CHROMIZED BOLTS 67-12 M12-83148

BOLTS, CORROSION
PREVENTING STRESS-CORROSION CRACKING IN THREADED FASTENERS 67-11 M18-81194

BOLTS, MECHANICAL PROPERTIES
STRESS-RELAXATION PROPERTIES OF SOME NICKEL-CHROMIUM ALLOYS FOR STEAM POWER PLANT 67-02 M17-59100
EFFECT OF PARTIAL DECARBURIZATION ON FATIGUE STRENGTH OF BOLTS 67-04 M17-66994
LOW-CYCLE FATIGUE OF LARGE-DIAMETER BOLTS 67-05 M17-69701
PERFORMANCE OF NUTS ON HIGH STRENGTH BOLTS 67-08 M17-74795
FAULTS IN DESIGN REVEALED BY SERVICE FAILURES. PT. 2 67-08 M17-75615

BOLTS, SPECIFICATIONS
COMMERCIAL SPECIFICATIONS FOR BOLTS, NUTS AND SIMILAR PARTS 67-09 M19-77829

BOLTS, STANDARDS
THE STANDARDIZATION OF CORROSION-PROTECTED FASTENERS 67-07 M18-74254

BOLTS, WELDING
WELD FASTENERS PUSH INTO LIMELIGHT 67-03 M11-65764
THE WELDING OF COATED SHEETS WITH THE CAPACITANCE-DISCHARGE METHOD AND COAXIAL ELECTRODE ARRANGEMENT 67-11 M11-81074

BOMB CALORIMETERS
SEE CALORIMETERS

BOMB REDUCTION
SEE PRESSURE VESSELS
REDUCTION /CHEMICAL/

BOMBARDMENT /IRRADIATION/
SEE IRRADIATION

BOMBERS
SEE MILITARY PLANES

BOMBS /PRESSURE GAGES/
SEE PRESSURE GAGES

BOMBS /PRESSURE VESSELS/
SEE PRESSURE VESSELS

BOMBS /WEAPONS/, WELDING
AUTOMATED WELDING SETUP SPEEDS BOMB PRODUCTION 67-10 M11-78602

BONDERITE PROCESSES
SEE BONDERIZING

BONDERITE SS PROCESS
SEE BONDERIZING

BONDERIZING
NEW BONDERIZED STEEL SHEET 67-01 M12-58555
NEW PRODUCTION LINE TO SATISFY INCREASING DEMAND FOR PYRENES TEST PANELS 67-05 M01-68908

BONDING
SEE ALSO ADHESIVE BONDING
CERAMIC BONDING
FUSION BONDING
METAL BONDING
PRESSURE BONDING

BONDING
ROLL BONDING
THE PROBLEM OF JOINING AL TO PB AND PB TO FE
67-01 M11-58624
METHODS OF IMPROVING THE TECHNOLOGY OF PRODUCING BILAYER SHEET STEEL 67-02 M07-61948
METHOD FOR BONDING A SINTERED REFRACTORY CARBIDE BODY TO A METALLIFEROUS SURFACE
67-02 M11-60939
MEANS OF IMPROVING THE MANUFACTURE OF TWO-PLY STEELPLATE 67-04 M07-67777
SOLID PHASE BONDING WITH INSERT METALS
67-04 M11-67589
BONDING OF ALUMINIUM FOIL AND POWDER TO STEEL STRIP
67-04 M12-66982
ROLE OF CAPILLARY EFFECTS IN DISTRIBUTION OF LIQUID BINDERS IN CARBON-GRAPHITIC PRESSING
67-06 M09-71463
SOME GENERAL ASPECTS OF INTERFACES IN COMPOSITES
67-07 M09-73354
ADHESION OF STEELS IN THE PRODUCTION OF BIMETALLIC CASTINGS 67-12 M06-83038
ROLE OF CAPILLARY EFFECTS IN THE DISTRIBUTION OF LIQUID BINDERS IN CARBON-GRAPHITE COMPACTS
67-12 M09-82784
BONDING STRENGTH
PRELIMINARY ANALYSIS OF THE FACTORS AFFECTING THE BALLING OF IRON ORE FINES 67-01 M02-57512
THE BEHAVIOR OF BONDED METAL JOINTS UNDER OSCILLATING LOADS 67-01 M17-58264
ADHESIVE-BONDED JOINTS BETWEEN METALS
67-02 M11-61048
FATIGUE STRENGTH OF WELDED JOINTS AT LOW TEMPERATURE 67-02 M17-60663
PHOSPHATE BONDING OF ZIRCONIA 67-05 M05-69571
ADHESIVE BONDING OF STEEL 67-05 M11-69892
RELATION OF DEGREE OF VACUUM DURING EVAPORATION TO THE CLEANLINESS OF THE METAL-SEMICONDUCTOR CONTACT 67-05 M16-68568
THE CALCULATION OF ADHESIVE JOINTS OF METALS
67-05 M17-68938
THE TECHNOLOGY OF THE ADHESIVE BONDING OF METALS
67-06 M18-71554
NDT ON ADHESIVE JOINTS MAY OPEN UP NEW JOBS
67-06 M19-70717
DIFFUSION BONDING TECHNIQUES CHANGING AEROSPACE INDUSTRY 67-07 M11-73695
ULTRASONIC TESTING FOR THE DETERMINATION OF BOND STRENGTH AND BOND QUALITY 67-10 M11-79882
THE ADHESION AND BONDING OF CAOUTCHOUC-ELASTIC MATERIALS WITH SPECIAL REGARD TO RUBBER-METAL BONDING 67-11 M12-80496
INFLUENCE OF TECHNOLOGICAL FACTORS ON STRENGTH OF ADHESIVE BONDS 67-12 M11-81776
ADHESIVE BONDING 67-12 M11-83155
EVALUATING ADHESIVES FOR HYDROFOILS
67-12 M12-82144
SOME PHYSICAL PROPERTIES OF SILVER-TIN AMALGAMS
67-12 M20-82279
BONDING STRENGTH, IMPURITY EFFECTS
IN-AL BONDS STRONGER THAN THOSE IN INDIUM, LIQUID-INTERFACE STUDY REVEALS 67-07 M14-73215
BONDS /CHEMICAL/
SEE CHEMICAL BONDS
BOOSTER ROCKETS
THIN BOOSTER WALLS YIELD PAYLOAD HIKE
67-03 M08-65116
BOOSTER ROCKETS, WELDING
THE WELDABLE STEELS OF THE DIAMANT ROCKET. REMARKS ON THE WELDABILITY OF THESE STEELS
67-05 M11-69327
BOOSTERS /AMPLIFIERS/
SEE AMPLIFIERS
BORANES, REDUCING AGENTS
AN INTRODUCTION TO CHEMICAL NICKEL PLATING WITH SODIUM BOROHYDRIDE OR AMINE BORANES AS REDUCING AGENTS 67-07 M12-72770
BORDONI PEAK
BURDONI PEAK IN FACE-CENTERED CUBIC METALS
67-04 M17-66224
LOW-TEMPERATURE INTERNAL FRICTION OF ALUMINUM AT 1-HZ 67-11 M17-80232
BORDONI RELAXATION
SEE BORDONI PEAK
BORES
SEE BORING
HOLES
BORIDES
THE REACTION OF VANADIUM, NIOBIUM, AND TANTALUM DIBORIDES WITH CARBON 67-02 M09-61791
SOME PROPERTIES OF YTTRIUM BORIDE
67-05 M15-69231
CORRELATION OF PHYSICO-MECHANICAL PROPERTIES OF DIFFUSIVE COATINGS WITH THEIR ELECTRONIC STRUCTURE 67-07 M12-72512
BORIDES, BAND THEORY
X-RAY SPECTRA, ELECTRON STRUCTURE AND PROPERTIES OF TITANIUM METALLIC COMPOUNDS 67-04 M16-67372
BORIDES, CERAMICS
HEAT RESISTANT CERAMIC MATERIALS
67-06 M05-70225
BORIDES, COATINGS
THERMODIFFUSION INTERACTION OF TANTALUM WITH BORON CARBIDE POWDER IN A VACUUM 67-04 M14-67045
BORIDES, CORROSION
OXIDATION-RESISTANT HARD MATERIALS
67-06 M18-70080
APPLICATION OF REFRACTORY COMPOUNDS IN PRODUCTION OF CHLORINE AND CAUSTIC 67-10 M18-79342
OXIDATION CHARACTERISTICS OF HAFNIUM AND ZIRCONIUM DIBORIDE 67-12 M18-82563
BORIDES, CRUCIBLE FURNACES
POWDER METALLURGY CRUCIBLE MATERIALS FOR THE MELTING AND EVAPORATION OF METALS
67-11 M09-80340
BORIDES, CRYSTAL GROWTH
PYROLYTIC MATERIALS 67-02 M14-60711
TRANSPORT REACTIONS OF THE SILICIDES AND BORIDES OF TRANSITION METALS 67-03 M14-65184
THE PREPARATION OF CRYSTALLINE ALUMINUM BORIDES BY A VAPOR DEPOSITION PROCESS 67-08 M14-75296
BORIDES, CRYSTAL LATTICES
TETRAGONAL BORON AND BORIDES WITH SIMILAR STRUCTURES 67-01 M13-58409
CRYSTAL STRUCTURE OF HIGHER ALUMINUM BORIDES
67-04 M13-66121
THE TUNGSTEN BORIDES IN BORON FIBERS
67-06 M13-71620
INVESTIGATION OF STRUCTURE AND ORIENTATION OF BORIDE COATINGS DEPOSITED ON IRON
67-07 M14-74185
BORON-RICH TUNGSTEN BORIDE 67-10 M13-80012
A NEW COMPLEX BORIDE COMPOUND --FE, NI--23B6
67-12 M13-82140
BORIDES, ELECTRICAL PROPERTIES
GALVANOMAGNETIC EFFECTS IN SINGLE-CRYSTAL ZRB2
67-03 M16-65393
WORK FUNCTION OF METALS 67-06 M16-70492
BORIDES, FILAMENTS
HIGH MODULUS FILAMENTS FOR METAL MATRIX REINFORCEMENTS 67-05 M09-68904
BORIDES, MACHINING
NEW POLISHING MATERIALS FOR PROCESSING OF SINGLE CRYSTALS 67-06 M12-72324
BORIDES, MAGNETIC PROPERTIES
MAGNETIC PROPERTIES OF FE-MODIFIED MN3B4
67-02 M15-59469
THE ELECTRONIC STRUCTURE OF BORIDES OF SOME TRANSITION ELEMENTS 67-02 M16-61115
BORIDES, MECHANICAL PROPERTIES
CERAMIC PARTS 67-02 M05-61100
REVIEW OF SELECTED PROPERTY DATA
67-02 M17-60715
PROPERTIES OF ZRB2-TAB2 ALLOYS CONTAINING CR
67-05 M09-68236
HOT HARDNESS OF SELECTED BORIDES, OXIDES AND CARBIDES TO 1900 C 67-09 M17-76752
CORRELATION OF THE PHYSICOMECHANICAL PROPERTIES AND ELECTRONIC STRUCTURE OF DIFFUSION COATINGS
67-11 M17-80898
DEVELOPMENT OF ADVANCED CERAMIC CUTTING TOOLS
67-12 M17-82947
BORIDES, OXIDATION
STABILITY OF SOME REFRACTORY MATERIALS IN CRYOLITE-ALUMINA MELTS 67-05 M03-68959
INVESTIGATION OF HIGH-TEMPERATURE OXIDATION OF
67-10 M18-79345
BORIDES, PHYSICAL PROPERTIES
MODERN CERAMICS--SOME PRINCIPLES AND CONCEPTS
67-02 M05-60701
ELECTRONIC EXCHANGE AND THE MOSSBAUER EFFECT IN IRON-BASED INTERSTITIAL COMPOUNDS
67-03 M16-65718
STUDY OF THE PERMEABILITY OF POROUS MATERIALS OF REFRACTORY COMPOUNDS 67-05 M09-68703
MICROMETHOD FOR DETERMINING THE FUSION POINTS OF REFRACTORY COMPOUNDS 67-05 M15-68705
ENGINEERING PROPERTIES OF SELECTED CERAMIC MATERIALS 67-07 M05-73875

THE MISCIBILITY OF THE TAU BORIDES
67-11 M15-80374
PERMEABILITY OF POROUS MATERIALS FROM REFRACTORY COMPOUNDS
67-12 M09-82679
PHYSICAL PROPERTIES OF BORIDE PHASES IN CHROMIUM
67-12 M15-83365

BORIDES, POWDER METALLURGY
POROUS MATERIALS FROM CARBIDES AND BORIDES OF THE TRANSITION METALS
67-02 M09-62214
CARBOTHERMAL METHOD OF PREPARATION OF CHROMIUM, MOLYBDENUM AND ZIRCONIUM BORIDES
67-04 M09-66261
PRODUCTION OF LANTHANUM, GADOLINIUM AND YTTRIUM HEXABORIDES USING ELECTRON BEAM HEATING
67-06 M09-71460
RELATIONSHIP BETWEEN MICROHARDNESS AND MICROBRITTLENESS OF REFRACTORY COMPOUNDS AND THEIR ELECTRON STRUCTURE
67-07 M09-72513
CARBOTHERMIC METHOD OF PREPARATION OF CHROMIUM, MOLYBDENUM, AND ZIRCONIUM BORIDES
67-10 M09-78993
CORRELATION OF MICROHARDNESS AND MICROBRITTLENESS OF REFRACTORY COMPOUNDS WITH THEIR ELECTRIC STRUCTURE
67-11 M09-80899
DEVELOPMENT OF A TECHNIQUE OF PREPARATION OF LA, GD, AND Y HEXABORIDES USING ELECTRON-BEAM HEATING
67-12 M09-82781

BORIDES, PRECIPITATES
BEHAVIOR OF CHANGES OF PRECIPITATE OF NI-BASE HEAT RESISTING NO. 64BC ALLOY
67-04 M14-67567

BORIDES, PRECIPITATION
PHASE REACTIONS IN B-1900 NICKEL-BASE ALLOY FROM 1600 TO 1800 F
67-01 M14-58467
MICROSTRUCTURE OF PRECIPITATION STRENGTHENED NICKEL-BASE SUPERALLOYS
67-02 M13-61103

BORIDES, RADIATION EFFECTS
INFLUENCE OF NUCLEAR RADIATION ON PROPERTIES OF REFRACTORY COMPOUNDS
67-05 M16-69004

BORIDES, REACTIONS /CHEMICAL/
SOLID-PHASE SURFACE REACTIONS BETWEEN BORIDES, REFRACTORY METALS AND ZRO2
67-01 M14-58295

BORIDES, SOLUBILITY
ANALYSIS OF NITRIDES IN BORON STEELS BY EXTRACTION OF NONMETALLIC PHASES
67-06 M19-71568

BORIDES, SUPERCONDUCTIVITY
SUPERCONDUCTIVE ANOMALY IN SPECIFIC HEATS OF LAYER STRUCTURE COMPOUNDS
67-08 M16-74429

BORIDES, SYNTHESIS
PREPARATION AND PROPERTIES OF ALUMINUM BORIDES
67-02 M05-62111
ON THE PREPARATION OF SOME CHROMIUM, MOLYBDENUM AND TUNGSTEN BORIDES
67-12 M14-81830

BORIDES, TERNARY SYSTEMS
REACTION OF CHROMIUM, MOLYBDENUM, AND TUNGSTEN BORIDES WITH CARBON
67-02 M14-61634

BORIDES, THERMAL PROPERTIES
THERMAL CONDUCTIVITY OF THE BORIDES OF TRANSITION METALS OF THE 4-6 GROUPS IN THE PERIODIC TABLE
67-01 M15-58078
THERMAL AND ELECTRICAL PROPERTIES
67-02 M15-60704
HIGH-TEMPERATURE THERMAL EXPANSION OF CERTAIN GROUP 4 AND GROUP 5 DIBORIDES
67-06 M15-71162
HEATS OF FORMATION OF ALUMINUM DIBORIDE AND ALPHA-ALUMINUM DODECABORIDE
67-12 M15-82390

BORIDES, THERMODYNAMICS
REVIEW OF THE SCIENCE OF CERAMIC MATERIALS
67-02 M05-60702
CALCULATION OF HEAT CAPACITY OF REFRACTORY COMPOUNDS
67-06 M15-72330

BORIDES, TRANSPORT PROPERTIES
VACUUM THERMIONIC WORK FUNCTIONS AND THERMAL STABILITY OF TAB2, ZRC, MO2C, MOSI2, TASI2 AND WSI2
67-08 M16-75125

BORIDES, X RAY ANALYSIS
X-RAY INVESTIGATION OF LANTHANUM BORIDES
67-06 M13-71478
X-RAY ANALYSIS OF THE LANTHANUM BORIDES
67-12 M13-82799

BORIDING
GAS BORATING OF HIGH-ALLOY STEELS
67-01 M10-58082
EFFECT OF BORATING ON FATIGUE AND CORROSION FATIGUE STRENGTH OF STEEL
67-02 M17-59654
METHOD OF OBTAINING METAL BORIDES
67-04 M09-66962
BORIDING IN A POWDER MIXTURE
67-04 M10-66459
SURFACE ALLOYING OF STEEL CASTINGS
67-05 M12-69604
BORON-BASE DIFFUSION COATINGS FOR NICKEL-CHROMIUM ALLOYS
67-07 M12-74186
INVESTIGATION OF STRUCTURE AND ORIENTATION OF BORIDE COATINGS DEPOSITED ON IRON
67-07 M14-74185
INFLUENCE OF ALLOYED ELEMENTS ON ELECTROLYTIC BORIDING OF MEDIUM-CARBON STEEL
67-08 M10-76022
THE SURFACE BORIDING OF STEEL. PT. 2. GROWTH MECHANISM AND STRUCTURE OF INTERMEDIATE AND DIFFUSION LAYERS
67-09 M10-77879
STUDIES ON BORONIZATION OF STEEL SURFACES BY B4C-NAOCN
67-09 M10-78000
BORONIZING OF IRON
67-09 M10-78209
INFLUENCE OF BORIDING ON SOME PHYSICAL AND MECHANICAL PROPERTIES OF STEEL 45
67-09 M17-76436
BORONIZING WITH POWDERED MIXTURES
67-11 M10-81000

BORING
PRODUCTION OF A TUNGSTEN JET-PIPE NECK AT THE SEPR PLANT
67-08 M08-75860
AIR BEARINGS AID LINE BORING
67-09 M08-77392
BORING WITH CERAMIC TOOLS IN COMPENSATING SPINDLES
67-10 M08-78452
CONTROL OF RESONANT VIBRATIONS CREATES NEW CONCEPT IN TOOLING
67-11 M08-81497

BORON
V 2. PREPARATION, PROPERTIES, AND APPLICATIONS
67-01 M01-58401
BORON--ANOTHER FORM
67-01 M13-58410

BORON, ALLOYING ADDITIVE
COMPLEX MICROALLOYING OF CUPOLA MALLEABLE IRON FOR SMALL-SCALE PRODUCTION
67-01 M06-57325
RETAINING THE HARDENING EFFECT OF BORON IN STEELS
67-02 M10-59461
COOLING TRANSFORMATION DIAGRAMS FOR AISI 1036 AND 10B36
67-02 M14-59462
EFFECT OF NB, TI AND B ON THE ELEVATED-TEMPERATURE MECHANICAL PROPERTIES OF A CR12W2V STEEL
67-02 M17-60210
TREATMENT OF WHITE IRON WITH BORON AND SILICON
67-02 M17-61187
HOW CATERPILLAR USES BORON STEELS
67-02 M20-59460
LOW-TEMPERATURE SPECIFIC HEAT AND DENSITY OF STATES OF BORONATED GRAPHITE
67-03 M15-65034
BORON-ALLOYED AUSTENITIC STEELS AND ALLOYS FOR WELDED STRUCTURES
67-04 M11-66811
THE EFFECT OF BORON ON INTERNAL FRICTION OF PURE IRON
67-04 M15-67829
INFLUENCE OF BORON ON STRUCTURE AND PROPERTIES OF KH16N25M2V5 STAINLESS STEEL
67-04 M17-66090
STUDY OF THE EFFECT OF MICROALLOYING ELEMENTS ON THE INCREASE IN STRENGTH OF STRUCTURAL STEELS USED FOR PRESTRESSED CONCRETE
67-04 M17-67436
BORON-DOPING OF NIMONIC TYPE HEAT RESISTANT NICKEL ALLOYS
67-04 M17-67847
PRODUCTION OF PEARLITIC MALLEABLE CAST IRON WITH ADDITIONS OF BISMUTH AND BORON
67-05 M06-68459
INFLUENCE OF CARBON, SILICON AND BORON ON HOT TEARING IN WHITE CAST IRON
67-05 M06-68951
THE EFFECT OF COMBINED, SIMULTANEOUS ADDITION OF MO, NB, TI, N, B ON HIGH TEMPERATURE PROPERTIES OF 18CR-12NI AUSTENITIC HEAT RESISTING STEEL
67-05 M17-69711
MICROSTRUCTURE, TECHNICAL AND CORROSION PROPERTIES OF HIGH-B CHEMICALLY RESISTANT STEELS
67-05 M18-68608
INFLUENCE OF AN ELECTRIC FIELD ON THE CAPTURE AND SCATTERING OF HOLES IN BORON-DOPED SILICON
67-06 M15-70515
THE EFFECTS OF BORON ON THE PROPERTIES OF AUSTENITIC STEELS
67-06 M17-71133
COMPLEX MICRO-ALLOYING OF CUPOLA MALLEABLE IRON IN SMALL-BATCH PRODUCTION
67-07 M06-73047
INFLUENCE OF SMALL AMOUNTS OF BORON ON THE PROPERTIES OF HIGH-SPEED STEELS
67-07 M17-73259
EFFECT OF BORON ON STRUCTURE AND PROPERTIES OF 35GL STEEL
67-07 M17-74042
INFLUENCE OF BORON ON STRESS CORROSION RESISTANCE OF KH18N12B STEEL IN MGCL2 SOLUTION
67-07 M18-73660
RESISTANCE TO EXTRUSION OF AUSTENITIC STEELS FOR SUPERHEATER TUBES
67-08 M07-76164
AUSTENITIC STEELS AND ALLOYS, ALLOYED WITH BORON,

FOR WELDED STRUCTURES 67-08 M11-75915
COMBINED ACTION OF SURFACE-ACTIVE AGENTS ON THE NUMBER OF GRAPHITIZATION NUCLEI IN CUPOLA MELTED MALLEABLE IRON 67-08 M14-74546
NEUTRALIZATION OF CHROMIUM IN MALLEABLE CAST IRON 67-08 M14-74547
EFFECT OF BORON AND CERIUM ON THE NATURE OF BOUNDARY DISTRIBUTION OF EXCESS CARBIDES IN COMPOSITE-ALLOYED NICKEL ALLOYS ZHS 67-08 M14-75265
SOLUBILITY OF NBC IN 20 PER CENT CR-25 PER CENT NI STAINLESS STEEL 67-08 M14-75812
INFLUENCE OF BORON AND ALUMINIUM ON THE GRAPHITISATION OF MALLEABLE CAST IRON 67-08 M14-76089
EFFECT OF SILICON, BORON AND CALCIUM ON OXIDATION OF LIQUID IRON-CHROMIUM ALLOYS 67-08 M18-75870
RESIDUAL BORON AS AN ALLOYING ELEMENT DURING THE INITIATION OF CENTERS OF GRAPHITIZATION IN WHITE CAST IRON CASTINGS 67-09 M06-76984
INFLUENCE OF BORON ON THE PHASE DISTRIBUTION OF ELEMENTS IN WHITE IRON AND THEIR REDISTRIBUTION DURING ANNEALING 67-09 M06-78079
A SPECIALLY PROCESSED BORON DEOXIDIZED COPPER DEVELOPED FOR ELECTRICAL CONDUCTORS 67-09 M20-76407
THE EFFECT OF CONCENTRATION UPON HELIUM PRECIPITATION IN IRRADIATED COPPER-BORON ALLOYS 67-10 M13-79589
EFFECT OF BORON ON THE PROPERTIES OF 45KH10G14YU2 STEEL 67-10 M17-78435
INFLUENCE OF NIOBIUM, TITANIUM, AND BORON ON HIGH-TEMPERATURE PROPERTIES OF 12 PER CENT CR-2 PER CENT W-V STEEL 67-10 M17-79772
ANISOTROPY OF MECHANICAL PROPERTIES IN TUBES AS ONE OF THE FACTORS IN THE SELECTION OF A HOT DEFORMATION METHOD 67-11 M07-80861
EFFECTS OF EXTERNAL AND INTERNAL ELECTRIC FIELDS ON THE BORON ACCEPTOR STATES IN SILICON 67-11 M16-80328
THE EFFECT OF CARBON, NITROGEN, AND BORON ON ELEVATED-TEMPERATURE PROPERTIES 67-11 M17-80282
EFFECT OF BORON ON THE STRUCTURE AND MECHANICAL PROPERTIES OF NICKEL 67-11 M17-81167
COMPARATIVE EFFECTIVENESS OF BORON-CONTAINING INOCULANTS 67-12 M06-81988
ALLOYING OF STEELS FOR PETROLEUM INDUSTRY TUBING 67-12 M10-83536
MICROSTRUCTURE OF IRON-BORON ALLOYS 67-12 M13-81843
INTERGRANULAR DIFFUSION OF IRON IN AUSTENITIC STEELS CONTAINING BORON 67-12 M14-82592
EFFECT OF SB, BI AND B ON THE PROPERTIES OF MALLEABLE CAST IRON 67-12 M17-81987
INFLUENCE OF BORON, COPPER AND TIN ON THE HOT TORSIONAL DUCTILITY OF AN FE-NI ALLOY 67-12 M17-82283
EFFECT OF BORON ON PROPERTIES OF 45KH10G14YU2 STEEL 67-12 M17-83433

BORON, ALLOYING EFFECTS
STUDY OF THE PROPERTIES OF PURE IRON-ALUMINIUM ALLOYS CONTAINING UP TO 2 PER CENT AL 67-01 M17-58445
EFFECT OF BORON ON INTERFACIAL DISTRIBUTION OF ELEMENTS IN WHITE CAST IRON AND THEIR REDISTRIBUTION DURING ANNEALING 67-02 M06-61807

BORON, BAND THEORY
THERMAL AND OPTICAL BAND GAPS OF MONOCRYSTALLINE BETA-RHOMBOHEDRAL BORON 67-01 M16-58412
RECOMBINATION RADIATION OF BORON 67-01 M16-58418

BORON, BINARY SYSTEMS
STUDY OF THE MANGANESE-BORON SYSTEM 67-01 M13-58058
PREPARATION AND PROPERTIES OF ALUMINUM BORIDES 67-02 M05-62111
STUDY OF THE PHASE DIAGRAM OF THE NICKEL BORON SYSTEM 67-06 M13-70369
PHASE DIAGRAM OF THE NI-B SYSTEM 67-06 M13-71462
PHASE DIAGRAM OF THE W-B SYSTEM 67-08 M13-75434
PHASE DIAGRAM OF THE SYSTEM NICKEL-BORON 67-12 M13-82783

BORON, BONDING
METAL LAMINATE COMPOSITE MATERIALS FOR COMPRESSOR BLADING 67-07 M09-73363

BORON, CASTING
BORON FILAMENT GRADUATES TO PRODUCTION 67-01 M14-57224

BORON, CHEMICAL ANALYSIS
PURITY OF BORON PRODUCED BY THE DECOMPOSITION OF DIBORANE AND SUBSEQUENT ZONE-MELTING 67-01 M05-58403
CARBON DETERMINATION IN HYPERPURE ELEMENTAL BORON USING GAS CHROMATOGRAPHY 67-01 M19-58407
BREAKTHROUGH IN ANALYSIS OF LIGHT ELEMENTS 67-02 M19-59630
THE DETERMINATION OF THE B CONTENT OF LOW-B STEELS BY MEASURING THE DEPRESSION OF THE FLUX OF THERMAL NEUTRONS 67-12 M19-83009

BORON, COATING
PRODUCING A LAYER OF NICKEL AND COBALT BORIDES ON THE SURFACE OF IRON 67-03 M12-65973

BORON, COATINGS
DIFFUSION SATURATION BY BORON AND TITANIUM 67-02 M12-60072
BORON-BASE DIFFUSION COATINGS FOR NICKEL-CHROMIUM ALLOYS 67-07 M12-74186
BATHING METAL WITH ALLOY COATINGS 67-09 M12-76448
STUDY OF DEPOSITION OF BORON ON THE SURFACE OF ZIRCONIUM 67-12 M12-82287
CORROSION PROPERTIES OF COMBINATION COATINGS 67-12 M18-81721

BORON, COMPOSITE MATERIALS
INTERFACIAL INVESTIGATIONS OF BORON FIBER-REINFORCED PLASTICS 67-07 M09-73355
A COMPATIBILITY STUDY OF SIC AND B FIBERS IN BE, FE, CO, AND NI MATRICES 67-07 M09-73357
MICROMECHANICS OF BORON FILAMENT REINFORCED ALUMINUM COMPOSITES 67-11 M17-80691

BORON, CONCENTRATION /COMPOSITION/
BORON DETECTION IN METALS BY ALPHA-PARTICLE TRACKING 67-09 M19-77432

BORON, CRYSTAL GROWTH
STUDIES ON CRYSTALLIZATION OF PURE BORON 67-01 M14-58405
PREPARATION AND CHARACTERIZATION OF SINGLE-CRYSTAL BORON 67-01 M14-58406

BORON, CRYSTAL LATTICES
THE BETA-RHOMBOHEDRAL BORON STRUCTURE 67-01 M13-58408
TETRAGONAL BORON AND BORIDES WITH SIMILAR STRUCTURES 67-01 M13-58409

BORON, DIFFUSION
THE DIFFUSION ACTIVATION ENERGY OF INTERSTITIAL ELEMENTS IN TRANSITION METALS WITH A BODY-CENTERED LATTICE 67-04 M14-67916
DIBORANE FOR BORON DIFFUSION INTO SILICON 67-05 M14-68777
DIFFUSION-INDUCED DEFECTS IN SILICON. PT. 1 67-05 M14-69207
DIFFUSION-INDUCED DEFECTS IN SILICON. PT. 2 67-05 M14-69208
INVESTIGATION OF THE DIFFUSION OF BORON IN SILICON FROM A LAYER DOPED BY ION BOMBARDMENT 67-05 M16-69391
INFLUENCE OF OXYGEN IN SILICON ON THE MOTION OF DISLOCATIONS GENERATED BY DIFFUSION 67-06 M14-70873
SOLUTE DIFFUSION IN PLASTICALLY DEFORMED SILICON CRYSTALS 67-07 M14-72885
PRECIPITATION OF PHOSPHORUS, ARSENIC, AND BORON IN THIN SILICON FOILS 67-09 M14-77152
THE CONNECTION BETWEEN THE DIFFUSION FACTORS ALONG GRAIN BOUNDARIES AND SURFACE TENSION 67-10 M14-78354

BORON, ELECTRICAL PROPERTIES
TRAP-DOMINATED ELECTRICAL AND OPTICAL EFFECTS IN CRYSTALLINE BORON 67-01 M15-58415
ELECTRON PARAMAGNETIC RESONANCE, ELECTRICAL CONDUCTIVITY, AND IMPURITY DIFFUSION IN DOPED BORON 67-01 M15-58416
PRESSURE EFFECTS ON THE ELECTRICAL PROPERTIES OF POLYCRYSTALLINE BORON 67-10 M15-79965

BORON, EMITTANCE
THE CHARACTERISTIC X-RAYS FROM BORON AND BERYLLIUM 67-06 M16-71434

BORON, EXTRACTION
RECENT DEVELOPMENTS IN SOLVENT EXTRACTION TECHNOLOGY 67-02 M03-61586
PRODUCTION OF RHOMBOHEDRAL BETA BORON 67-12 M03-82538

BORON, FIBER METALLURGY

INFLUENCE OF CONSTITUENT PROPERTIES UPON THE STRUCTURAL EFFICIENCY OF FIBROUS COMPOSITE SHELLS
67-01 M17-58521
EOS PROBES ELECTRODEPOSITED COMPOSITE STRUCTURES MARKET 67-02 M12-59482
AMORPHOUS BORON FIBERS 67-05 M13-69223
FIBER-REINFORCED METALS 67-07 M09-72752
RESEARCH ON BORON FILAMENTS AND BORON REINFORCED COMPOSITES 67-07 M09-73340
BORON FILAMENT FOR STRUCTURAL COMPOSITES 67-07 M09-73348
BORON ALUMINUM COMPOSITE FABRICATED BY PLASMA SPRAYING 67-07 M09-73358
MICROSTRAIN BEHAVIOR OF METAL MATRIX COMPOSITES 67-11 M17-81129
THE AGE OF COMPOSITE MATERIALS 67-12 M09-83277
RECENT ADVANCES IN COMPOSITE TECHNOLOGY 67-12 M14-82045
OBSERVATIONS ON THE TENSILE STRENGTH OF AMORPHOUS BORON 67-12 M17-83012

BORON, FILAMENTS
MEASUREMENT OF BORON FILAMENTARY COMPOSITE BEHAVIOR RELATIVE TO MECHANICAL DESIGN OF RE-ENTRY VEHICLE STRUCTURES 67-06 M17-70616
SOME MECHANICAL PROPERTIES OF BORON-TUNGSTEN BORIDE FILAMENTS 67-11 M17-80315
FATIGUE OF BORON FILAMENT 67-11 M17-81353

BORON, IMPURITIES
IMPURITY REDISTRIBUTION IN THERMAL OXIDATION OF SILICON 67-01 M03-58316

BORON, INTERMETALLICS
HIGH-TEMPERATURE OXIDATION. PT. 3. ZIRCONIUM AND HFANIUM DIBORIDES 67-02 M14-61768
MAGNETIC BEHAVIOR OF CE IN ITS INTERMETALLIC COMPOUNDS. PT. 6. CE-BE, CE-B AND CE-C SYSTEMS 67-05 M15-69351
THE CRYSTAL STRUCTURE OF MOALB 67-06 M13-70455
ELECTRICAL RESISTIVITY, ELASTIC MODULUS, AND DEBYE TEMPERATURE OF TITANIUM DIBORIDE 67-06 M15-71058

BORON, MAGNETIC PROPERTIES
MAGNETORESISTANCE IN ELEMENTAL BORON 67-01 M15-58417
STUDY OF CRYSTALLINE AMORPHOUS BORON BY PARAMAGNETIC ELECTRONIC RESONANCE 67-02 M16-61020

BORON, MECHANICAL PROPERTIES
MECHANICAL AND MICROMECHANICAL BEHAVIOR OF BULK POLYCRYSTALLINE BORON 67-01 M17-58422
THE EFFECT OF CHEMICAL POLISHING ON THE STRENGTH AND FRACTURE CHARACTERISTICS OF AMORPHOUS BORON FILAMENTS 67-01 M17-58423
PROPERTIES OF PYROLYTICALLY PRODUCED BORON FIBERS 67-06 M17-71619
STRESS-RUPTURE AND TENSILE TEST TECHNIQUES FOR SINGLE BORON FILAMENTS AT ROOM AND ELEVATED TEMPERATURES 67-07 M09-73367
MEASURING THE ELASTIC MODULI OF INORGANIC FILAMENTS 67-07 M17-73136
A TENSION TEST METHOD FOR HIGH MODULUS, HIGH-STRENGTH FILAMENTS 67-10 M17-79175

BORON, NONDESTRUCTIVE TESTING
PROPERTIES DETERMINATION AND PROCESS CONTROL OF BORON FILAMENT COMPOSITES USING NONDESTRUCTIVE TEST METHODS 67-07 M09-73368

BORON, NUCLEAR FUELS
DISPERSION AND NONMETALLIC POISON MATERIALS 67-11 M16-80470

BORON, OPTICAL PROPERTIES
THE OPTICAL AND ELECTRICAL CONSTANTS OF BETA-RHOMBOHEDRAL BORON AND APPLICATIONS, 1965, P 133-141 67-01 M15-58413
ON THE BIREFRINGENCE OF SIMPLE RHOMBOHEDRAL BORON 67-01 M15-58419
LOCAL MODE ABSORPTION FROM BORON PAIRS IN SILICON 67-08 M16-75833
PHOTOCONDUCTIVITY IN BORON AT LOW TEMPERATURE 67-10 M16-79027

BORON, PHASES /STATE OF MATTER/
SOLID SOLUTION OF BORON IN GRAPHITE 67-07 M14-72827

BORON, PHYSICAL PROPERTIES
INTERNAL FRICTION IN BORON 67-04 M15-67831
MICROMETHOD FOR DETERMINING THE FUSION POINTS OF REFRACTORY COMPOUNDS 67-05 M15-68705
ENGINEERING PROPERTIES OF SELECTED CERAMIC MATERIALS 67-07 M05-73875
SPECTRAL RESPONSE OF PHOTOSENSITIVITY --SRPS-- IN BORON 67-08 M15-75252

BORON, PURIFICATION
ULTRAPURE BORON FROM HALIDE INTERMEDIATES 67-01 M05-58404

BORON, QUATERNARY SYSTEMS
STUDY OF PHASE EQUILIBRIUM IN A PORTION OF THE TI-AL-CR-FE-SI-B SYSTEM 67-09 M13-77298

BORON, REACTIONS /CHEMICAL/
INTERACTION OF BORON WITH TUNGSTEN SINGLE CRYSTAL SUBSTRATES 67-02 M14-61572

BORON, SEMICONDUCTOR DEVICES
BORON SEMICONDUCTOR DEVICES 67-01 M16-58424
B10/B11 THERMISTOR PAIRS AND THEIR APPLICATION 67-01 M16-58425

BORON, SPECTROSCOPY
SPECTROGRAPHIC DETERMINATION OF LOW BORON CONTENTS IN CAST IRON AND STEEL 67-07 M19-72717

BORON, SYNTHESIS
PRODUCTION OF PURE BORON IN THE ALPHA AND BETA RHOMBOHEDRAL FORMS 67-01 M03-58377
SYNTHESIS OF RED, ALPHA-RHOMBOHEDRAL BORON 67-01 M05-58402

BORON, TERNARY SYSTEMS
THE COPPER CORNER OF THE COPPER-NICKEL-BORON SYSTEM 67-01 M13-58046
ZIRCONIUM-VANADIUM-BORON SYSTEM 67-01 M13-58059
TERNARY COMPOUNDS IN THE BERYLLIUM-BORON-CARBON SYSTEM 67-01 M13-58076
A STUDY ON THE TERNARY ALLOYS OF IRON AND BORON 67-01 M14-58321
CONSTITUTION DIAGRAM OF THE ZR-FE-B SYSTEM 67-02 M13-59889
PHASE COMPOSITION AND SOME PROPERTIES OF ALLOYS OF THE MOLYBDENUM-NICKEL-BORON SYSTEM 67-02 M13-62186
CHROMIUM BORON CARBIDE 67-04 M13-67865
ALLOY COMPOSITIONS OF HFB2 WITH URANIUM AND TRANSITION METAL BORIDES 67-04 M14-67453
THE TERNARY SYSTEM RE-FE-B 67-04 M16-66909
THE TAU PHASE IN THE CO-TI-B TERNARY SYSTEM 67-05 M13-68583
PHASE EQUILIBRIA IN CR-CO-B, MN-FE-B AND MN-CO-B SYSTEMS 67-06 M13-70215
INVESTIGATIONS OF THE SYSTEMS --MO, W-----FE, CO, NI---B 67-06 M13-70219
THE CO REGION OF THE TERNARY SYSTEM CO-MO-B 67-06 M13-70220
ISOTHERMAL SECTION OF THE MOLYBDENUM-IRON-BORON SYSTEM 67-06 M13-70773
X-RAY DIFFRACTION STUDY OF THE SYSTEM NIOBIUM-TUNGSTEN-BORON 67-07 M13-73278
CRYSTALLINE STRUCTURES OF COMPOUNDS ZR2NI21B6 AND ZR2CO21B6 67-07 M13-73481
PHASE COMPOSITION AND SOME PROPERTIES OF ALLOYS OF THE SYSTEM MOLYBDENUM-NICKEL-BORON 67-08 M13-75962
RESEARCH INTO CERTAIN PROPERTIES OF W2B-WC SYSTEM ALLOYS 67-09 M13-76955
THE TERNARY SYSTEM NI-V-B 67-10 M13-79072
THE PHASE EQUILIBRIA IN THE TERNARY SYSTEMS ZIRCONIUM-VANADIUM-BORON, ZIRCONIUM-NIOBIUM-BORON AND ZIRCONIUM-MANGANESE-BORON 67-10 M13-79346

BORON, THERMAL PROPERTIES
LOW-TEMPERATURE THERMAL CONDUCTIVITY OF BORON 67-01 M15-58421

BORON, THERMODYNAMICS
EVAPORATION COEFFICIENT OF BORON 67-04 M15-67786

BORON, THIN FILMS
VACUUM-DEPOSITED AMORPHOUS BORON FILMS 67-01 M16-58420

BORON, THREADS /FILAMENTS/
PREPARATION OF BORON FILAMENTS ON FUSED SILICA SUBSTRATES BY DECOMPOSITION OF DIBORANE 67-07 M09-73349

BORON, TRANSPORT PROPERTIES
CONDUCTIVITY, HALL EFFECT, OPTICAL ABSORPTION, AND BAND GAP OF VERY PURE BORON 67-01 M16-58411
SEMICONDUCTOR PROPERTIES OF BORON 67-01 M16-58414
ELECTRICAL PROPERTIES OF BORON IN THE TEMPERATURE RANGE 300-1500 K 67-06 M15-70875

BORON COMPOUNDS, CERMETS
A CERAMIC ALLOY FOR ELEVATED TEMPERATURE DUTY 67-04 M17-66850

BORON COMPOUNDS, COATING
BORON FILAMENT GRADUATES TO PRODUCTION

BORON COMPOUNDS

67-01 M14-57224

BORON COMPOUNDS, EMITTANCE
THE CHARACTERISTIC X-RAYS FROM BORON AND BERYLLIUM
67-06 M16-71434

BORON COMPOUNDS, FIBER METALLURGY
USE OF BORON NITRIDE FIBERS IN COMPOSITES
67-07 M09-73342

BORON COMPOUNDS, FRICTION
ANTIFRICTION PROPERTIES OF BORON NITRIDE DURING DRY FRICTION IN A GASEOUS MEDIUM AND AT LOW TEMPERATURES 67-02 M09-61708

BORON COMPOUNDS, INCLUSIONS
OCCURRENCE OF BORON IN OXIDE INCLUSIONS IN STEEL
67-06 M13-70808

BORON COMPOUNDS, MECHANICAL PROPERTIES
HIGH-PRESSURE, HIGH-TEMPERATURE CERAMIC STRUCTURES
67-03 M17-65344

BORON COMPOUNDS, NUCLEAR FUELS
DISPERSION AND NONMETALLIC POISON MATERIALS
67-11 M16-80470

BORON COMPOUNDS, PHYSICAL PROPERTIES
VISCOSITY OF MOLTEN B203 67-04 M15-67326
BORON NITRIDE-- HIGH COST MATERIAL WITH A PROMISING FUTURE 67-05 M05-68426
ELECTRIC INSULATION TUBE OF BORON CARBONITRIDE FOR PROTECTION OF METAL THERMOCOUPLES
67-06 M09-70970
PROSPECTS OF PRODUCING MATERIALS WITH SPECIAL PHYSICAL PROPERTIES IN THE ALUMINUM-BORON-NITROGEN SYSTEM 67-06 M15-70184
ROASTING BORON NITRIDE DURING HOT PRESSING AND ITS PROPERTIES AT HIGH TEMPERATURE
67-07 M05-72617

BORON COMPOUNDS, PRECIPITATION
THE PRECIPITATION OF BORON NITRIDE FROM FERROUS MELTS 67-09 M14-77719

BORON COMPOUNDS, REACTIONS /CHEMICAL/
HIGH TEMPERATURE REACTIONS OF BORON NITRIDE WITH ALUMINUM 67-05 M15-69422
EFFECT OF SOME FACTORS ON THE ALUMINOTHERMAL PROCESS OF PREPARING ALB12 COMPOUNDS
67-09 M03-76852

BORON COMPOUNDS, REDUCTION /CHEMICAL/
PRODUCTION OF BORON BY REDUCING BCL3 WITH HYDROGEN
67-12 M03-82486

BORON COMPOUNDS, SYNTHESIS
PRODUCTION OF CRYSTALLINE BORON CARBIDE FROM THE GASEOUS PHASE 67-09 M05-76713

BORON COMPOUNDS, THREADS /FILAMENTS/
BORON CARBIDE FILAMENTS FROM ORGANOBORANES
67-07 M09-73350

BORON COMPOUNDS, WEAR
ANTIFRICTION PROPERTIES OF BORON NITRIDE DURING DRY FRICTION IN GASEOUS MEDIA AND AT LOW TEMPERATURES 67-08 M17-75853

BORON COMPOUNDS, WELDING
WELDING BORON CARBIDE TO SILICON
67-01 M11-58379
ELECTRON MECHANISM OF DIFFUSION WELDING
67-04 M11-66432
THE ELECTRON THEORY OF DIFFUSION WELDING
67-07 M11-72691

BORON INTENSIFIED STEELS, ALLOYING
EFFECT OF MICROALLOYING WITH RARE EARTH ON THE STABILITY OF THERMAL STRENGTHENING OF STEEL
67-07 M10-73789
EFFECT OF MICROALLOYING WITH RARE METALS ON STABILITY OF THERMOMECHANICAL HARDENING OF STEEL
67-09 M04-76552

BORON INTENSIFIED STEELS, CHEMICAL ANALYSIS
BORON DETERMINATION IN BORON STEEL ALLOYS BY AUTORADIOGRAPHIC METHODS 67-07 M19-73729
BORON DETECTION IN METALS BY ALPHA-PARTICLE TRACKING 67-09 M19-77432
THE DETERMINATION OF THE B CONTENT OF LOW-B STEELS BY MEASURING THE DEPRESSION OF THE FLUX OF THERMAL NEUTRONS 67-12 M19-83009

BORON INTENSIFIED STEELS, HARD SURFACING
DETERMINING THE AMOUNT OF AUSTENITE IN HARD MULTIPHASE BUILDUPS 67-02 M11-62164

BORON INTENSIFIED STEELS, HEAT TREATMENT
SUPERHEATING OF STRUCTURAL STEELS
67-02 M17-61986
OVERHEATING OF STRUCTURAL STEELS
67-10 M17-78843

BORON INTENSIFIED STEELS, MECHANICAL PROPERTIES
EFFECT OF CARBONITRIDING ON PROPERTIES OF LOW-ALLOY STEELS 67-01 M17-58036
IMPROVEMENT IN THE MECHANICAL PROPERTIES OF BORON STEEL BY VACUUM MELTING 67-01 M17-58079
RETAINING THE HARDENING EFFECT OF BORON IN STEELS
67-02 M10-59461
EFFECT OF BORATING ON FATIGUE AND CORROSION FATIGUE STRENGTH OF STEEL 67-02 M17-59654
HOW CATERPILLAR USES BORON STEELS
67-02 M20-59460
DETERMINING THE AMOUNT OF AUSTENITE IN MULTI-PHASE HARD DEPOSITED METAL 67-04 M12-67174
MECHANIZED HARD SURFACING OF THE IMPELLERS OF A SUCTION DREDGE 67-06 M11-72311
EFFECT OF BORON ON STRUCTURE AND PROPERTIES OF 35GL STEEL 67-07 M17-74042
A HEAT RESISTANT STEEL 67-08 M01-74870
ALLOYING TYPE KH25N20S2 HIGH-TEMPERATURE CORROSION RESISTANT AUSTENITIC STEELS WITH 0.2-0.7 PER CENT BORON 67-08 M01-75022
INCREASE OF THE WORKING LIFE OF TRACTOR PARTS
67-08 M17-74969
COLD BRITTLENESS OF LOW-CARBON STEEL TREATED FOR HIGH STRENGTH 67-08 M17-74977
EFFECTS OF ANNEALING AT HIGH TEMPERATURES ON THE PROPERTIES OF NICKEL-CHROMIUM ALLOYS
67-09 M17-76716
INFLUENCE OF ALLOYING ELEMENTS ON PROPERTIES OF STRUCTURAL CR-MN STEELS 67-09 M17-77406
EFFECT OF BORON ON THE PROPERTIES OF 45KH10G14YU2 STEEL 67-10 M17-78435
PROPERTIES OF 55KHGR STEEL AFTER HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT AND REPEATED QUENCHING
67-10 M17-78816
A HIGH-TENSILE STEEL FOR DRILL AND DRIVE PIPES
67-10 M17-78924
METALLURGICAL DEVELOPMENTS IN THE MANUFACTURE OF EARTHMOVING EQUIPMENT 67-10 M17-79304
RESISTANCE OF STRUCTURAL STEEL TO PROPAGATION OF BRITTLE CRACKS 67-11 M17-80959
EFFECTS OF BORON ON STRUCTURE AND PROPERTIES OF WELD DEPOSITED METAL 67-12 M11-83539
BORON STEELS FOR FASTENERS 67-12 M20-81969

BORON INTENSIFIED STEELS, METAL WORKING
STAMPING OF BALL JOINTS 67-07 M07-73443

BORON INTENSIFIED STEELS, PHASES /STATE OF MATTER/
EFFECT OF VANADIUM ON THE PHASE COMPOSITION AND STRUCTURE OF HIGH-BORON STEEL
67-05 M13-68452

BORON INTENSIFIED STEELS, PHYSICAL PROPERTIES
FEATURES OF THE TEMPERATURE RELATIONSHIP OF INTERNAL FRICTION IN HARDENED IRON AND ALLOY STEEL 67-04 M15-66865

BORON INTENSIFIED STEELS, WELDING
BORON-ALLOYED AUSTENITIC STEELS AND ALLOYS FOR WELDED STRUCTURES 67-04 M11-66811
AUSTENITIC STEELS AND ALLOYS, ALLOYED WITH BORON, FOR WELDED STRUCTURES 67-08 M11-75915

BORON STEELS, MECHANICAL PROPERTIES
HARDENABLE LOW-CARBON STEEL. U. S. STEELS Q-TEMP
67-04 M01-66293
AUSROLLING RAIL STEEL 67-04 M10-67617
CRACK PROPAGATION RESISTANCE IN STRUCTURAL STEELS
67-04 M17-66357
STUDY OF THE EFFECT OF MICROALLOYING ELEMENTS ON THE INCREASE IN STRENGTH OF STRUCTURAL STEELS USED FOR PRESTRESSED CONCRETE
67-04 M17-67436
PROPERTIES OF 55KHGR STEEL AFTER AUSFORMING AND REPEATED QUENCHING 67-06 M17-70070
RAIL QUALITY IMPROVED BY MEANS OF VANADIUM
67-06 M17-70100
THE EFFECTS OF BORON ON THE PROPERTIES OF AUSTENITIC STEELS 67-06 M17-71133

BOS PROCESS
SEE OXYGEN STEEL MAKING

BOTTOM BLOWN CONVERTERS
SEE ALSO BASIC BESSEMER CONVERTERS
BESSEMER CONVERTERS
THE GAS CONTENTS OF CONVERTER STEEL BLOWN WITH MIXTURES OF STEAM AND OXYGEN OR CARBON DIOXIDE AND OXYGEN 67-04 M04-67228
SIMULATING THE EXPLOSIVE REACTION OF CARBON OXIDATION IN CONVERTER WITH BOTTOM BLOWING
67-09 M04-77857

BOTTOM CASTING
INVESTIGATION OF EFFICIENT METHODS OF CASTING DIFFERENT GRADE STEELS 67-02 M04-59849
USE OF INTERNAL COOLERS IN PRODUCTION OF STEEL CASTINGS 67-04 M06-67502
UPHILL CASTING, INSURING UNIFORM SUSPENSION OF INGOTS IN MOLDS 67-06 M04-71250

CASTING OF ZIRCALOY-URANIUM CORES FOR HWCTR DRIVER TUBES 67-07 M06-73152
BOTTOM CASTING ENSURING THAT INGOTS HANG UNIFORMLY IN THE INGOT MOULD 67-08 M04-75719
IMPROVING THE QUALITY OF AN INGOT OF RIMMED STEEL 67-08 M04-76268
THEORY AND CALCULATION OF THE PROCESS OF FILLING THE MOLDS OF VERTICAL THIN-WALLED CASTINGS USING A BOTTOM GATE 67-08 M06-75193

BOTTOM CASTING, MOLDS
RECLAIMING STEEL CASTING MOLDS BY BUILDUP 67-04 M12-66574

BOTTOM POUR FURNACES
SEE MELTING FURNACES

BOTTOM POURING
THE EFFECT OF CASTING AND SOLIDIFICATION CONDITIONS ON THE PROPERTIES OF ROLLED AND FORGED PRODUCTS 67-01 M04-57916
CASTING OF ZIRCALOY-URANIUM CORES FOR HWCTR DRIVER TUBES 67-07 M06-73152
B.H.P. NEW CASTLE INGOT PRODUCTION BY BOTTOM PORUING 67-08 M04-76192
IMPROVING THE QUALITY OF AN INGOT OF RIMMED STEEL 67-08 M04-76268
COMPLEX IMPROVEMENT OF INGOT QUALITY BY CASTING THE STEEL UNDER SLAG AND HEATING THE FEEDER HEADS 67-09 M04-77361
USING FEEDER HEADS WITH AN INTERNAL METALLIC HALL 67-09 M04-77627
IMPROVING THE QUALITY OF RIMMING STEEL INGOTS 67-10 M04-79261
HOT TOPS WITH INNER METAL WALLS 67-11 M04-80915

BOUNDARIES
SEE GRAIN BOUNDARIES
GRAIN SUB BOUNDARIES
PHASE BOUNDARY

BOUNDARY LUBRICATION
SEE LUBRICATION

BOURDON TUBES, MECHANICAL PROPERTIES
ELASTIC AND FATIGUE PROPERTIES OF VACUUM REMELTED VERSES AIR-MELTED NI-SPAN-C ALLOY 902 FOR BOURDON TUBES 67-12 M17-83251

BOX BEAMS, MECHANICAL PROPERTIES
BELGIUMS PART IN THE EXPERIMENTAL RESEARCH ON THE BUCKLING OF AXIALLY LOADED MILD-STEEL MEMBERS CONDUCTED BY THE CONVENTION EUROPEENNE DE LA CONSTRUCTION METALLIQUE 67-02 M17-60248

BOX BEAMS, WELDING
STRENGTH OF THIN WALLED BOX SECTION GIRDERS 67-02 M20-60006
THE INFLUENCE OF RESIDUAL STRESSES ON THE FUNCTIONAL STABILITY OF WELDED STRUCTURES 67-04 M11-67071

BOX CARS
SEE FREIGHT CARS

BOX TYPE FURNACES
SEE BATCH TYPE FURNACES

BRAGG ANGLE
SEE BRAGG EQUATION

BRAGG EQUATION
THE EFFECT OF SYSTEMATIC REFLECTIONS ON THE --110-- EXTINCTION DISTANCE IN MOLYBDENUM 67-11 M13-80613
BRAGG REFLECTION OF ELECTRONS IN LIQUID ALLOYS 67-11 M15-80182
NEUTRON DIFFRACTION STUDY OF THE DEBYE-WALLER FACTOR FOR ALUMINUM 67-11 M16-80488

BRAKE BANDS
SEE BRAKE LININGS

BRAKE DISKS, MATERIALS
SINTERED ABRASIVE ALLOY 67-02 M09-59596
POWDERED-METAL FRICTION MATERIAL 67-05 M09-69057

BRAKE DISKS, MECHANICAL PROPERTIES
INFLUENCE OF FRICTION CONDITIONS ON THE LATTICE CONSTANT OF THE GAMMA-PHASE DURING THE WEAR OF AUSTENITIC MANGANESE CAST IRON 67-08 M17-76009

BRAKE DISKS, POWDER METALLURGY
SOME PROBLEMS IN THE MANUFACTURE OF FRICTION MATERIALS ON AN IRON POWDER BASE 67-07 M09-72507
SOME PROBLEMS IN THE MANUFACTURE OF SINTERED IRON-BASE FRICTION MATERIALS 67-11 M09-80893

BRAKE DRUMS, CASTING
STUDY OF THE PRODUCTION OF PEARLITIC MALLEABLE IRON 67-04 M06-66097

BRAKE DRUMS, MECHANICAL PROPERTIES
CONDITIONS LEADING TO FAILURE OF CAST IRON BRAKES 67-05 M17-69141

BRAKE FORMING
SHEET PROCESSING TECHNOLOGY 67-02 M08-62199
THE STATUS OF SHEET-METAL FORMING TECHNOLOGY 67-05 M07-69145

BRAKE LININGS, POWDER METALLURGY
SOME PROBLEMS IN THE MANUFACTURE OF FRICTION MATERIALS ON AN IRON POWDER BASE 67-07 M09-72507
SOME PROBLEMS IN THE MANUFACTURE OF SINTERED IRON-BASE FRICTION MATERIALS 67-11 M09-80893

BRAKE PRESSES
ADJUSTABLE PERFORATING DIES 67-06 M07-70596

BRAKE SHOES, MATERIALS
METHOD FOR MANUFACTURING SECTORS FOR BRAKING SYSTEMS SUCH AS FOR AIRCRAFT 67-05 M20-69278

BRAKES /FOR ARRESTING MOTION/, POWDER METALLURGY PARTS
SINTERED METAL FRICTION MATERIALS 67-01 M09-58366

BRAKES /FOR ARRESTING MOTION/, WEAR
INVESTIGATION OF PHASE AND STRUCTURAL CHANGES IN THE SURFACE LAYERS OF FRICTION PAIR MATERIALS. PT. 1. METALLOGRAPHIC ANALYSIS AT OPTICAL AND SUPEROPTICAL MAGNIFICATIONS 67-06 M17-70768

BRASS PLATING
SEE ALLOY PLATING
COPPER PLATING
ZINC PLATING

BRASSES
SEE ALSO LEADED BRASSES
MANGANESE BRONZES

BRASSES, ALLOYING EFFECTS
NEW SPANISH STEELS AND COPPER ALLOYS IN FORGINGS FOR THE AUTOMOTIVE INDUSTRY 67-09 M01-77900

BRASSES, BAND THEORY
ELECTRONIC STRUCTURE OF ALPHA BRASS 67-05 M16-69801
ENERGY BANDS IN ORDERED BETA-BRASS 67-09 M16-77159

BRASSES, BONDING
STAINLESS STEEL HELICOPTER BLADES.. THEY GO WHERE THE ACTION IS 67-03 M07-65014
THE ADHESIVE BONDING OF ZN, CU, BRASS AND BROWN-FINISHED STEEL 67-05 M11-69033
THE ADHESIVE BONDING OF CU AND ITS ALLOYS 67-05 M12-68512

BRASSES, BRAZING
MN AS AN ALLOYING COMPONENT IN BRAZING ALLOYS FOR LMS 60 BRASS. PT. 1 67-04 M11-67080
FLASH BRAZING WITH HEATING IN GLYCERIN 67-12 M11-83194

BRASSES, BRAZING ALLOYS
MN AS AN ALLOYING ADDITION TO LMS 60. PT. 2 67-05 M11-68518

BRASSES, CASTING
DIE CASTING AND AUTOMATION 67-01 M06-57239
CONTINUOUS CASTING OF NON-FERROUS METAL BILLETS AND SLABS. PT. 1 67-02 M03-61644
THE DIMENSIONING OF GATING SYSTEMS IN THE SAND AND CHILL CASTING OF HEAVY METALS 67-03 M06-65191
DIE MATERIALS PACE CASTING PROGRESS 67-03 M06-65491
THEORY AND CALCULATION OF THE PROCESS OF FILLING THE MOLDS OF VERTICAL THIN-WALLED CASTINGS USING A BOTTOM GATE 67-08 M06-75193
OPTIMUM CHEMICAL COMPOSITION OF SILICON BRASS FOR DIE CASTING 67-08 M06-75197
SHOP FLOOR CONTROL IN COPPER ALLOY FOUNDRIES 67-10 M06-79240
GATING TECHNOLOGY IN THE DIE CASTING OF BRASS 67-10 M06-79976
TECHNOLOGICAL ADVANCES IN THE FIELD OF BRASS CASTING PRODUCTION 67-12 M06-81956
CASTING COPPER ALLOYS INTO SHELL MOLDS OF METALLIC SAND 67-12 M06-81982
INLET AND GATING CALCULATIONS FOR PRESSURE-CASTING DIES 67-12 M06-82920
PARTING COMPOUNDS AND MOLDING PAINTS FOR COPPER ALLOY CASTINGS 67-12 M06-83042
HIGH-OUTPUT, LOW-MANPOWER CONTINUOUS CASTING OF BRASS EXTRUSION BILLETS 67-12 M06-83170

BRASSES, CAVITATION
INVESTIGATION OF THE RESISTANCE TO CAVITATION AND THE KINETICS OF CAVITATION BREAKDOWN OF METALLIC ALLOYS 67-02 M18-59896

BRASSES, CHEMICAL ANALYSIS
HOMOGENEITY CHARACTERIZATION OF NBS SPECTROMETRIC

BRASSES

STANDARDS. PT. 2. CARTRIDGE BRASS AND LOW-ALLOY STEEL 67-06 M19-71433
BRASSES, CLEANING
AUTOMATIC PICKLING OF BRASS AND COPPER WIRE 67-03 M12-65121
APPLICATION OF SODIUM GLUCONATE IN ALKALINE BATHS FOR SIMULTANEOUS DEGREASING AND DEOXIDATION OF BRASS 67-04 M12-68039
APPLICATION OF GLUCONATE COMPOUNDS IN ALKALINE BATHS FOR THE SIMULTANEOUS REMOVAL OF GREASE AND OXIDE FILMS FROM BRASS 67-06 M12-70640
BRASSES, COATING
BRIGHT COPPER PLATING FROM SULFURIC ACID ELECTROLYTES 67-01 M12-58708
NEW PROTECTIVE COATING FOR NON-FERROUS METALS 67-02 M18-61094
SOME EXPERIENCES IN COPPER ELECTROFORMING OF WAVE GUIDES 67-03 M08-65418
IMMERSION TINNING OF BRASS BUTTONS 67-03 M12-65680
PRINCIPLES OF BRIGHTENING 67-04 M12-66349
INFLUENCE OF CATHODE HYDROGEN ON STRUCTURE AND PROPERTIES OF GOLD GALVANIC COATINGS 67-04 M12-67290
THE ELECTRODEPOSITION OF IRIDIUM 67-05 M12-68829
MULTI-DUTY COATING FOR NONFERROUS METALS 67-06 M12-70226
SYSTEMATIC INVESTIGATION OF THE POSSIBLE PROTECTION OF BRASS AGAINST STRESS CORROSION BY ELECTROPLATING 67-06 M18-71505
DEVELOPMENTS AND TENDENCIES IN PRECIOUS-METAL ELECTROPLATING. PT. 4 67-07 M12-73820
CHEMICAL NICKEL PALTING AND COBALT PLATING 67-08 M12-76018
SOME GOOD TIPS FOR PLATING STEEL, BRASS AND DIE CASTINGS 67-12 M12-81933
THE ELECTROLYTIC DEPOSITION OF PT AND PT ALLOYS WITH EMPHASIS ON INCREASED HARDNESS 67-12 M12-83084
BRASSES, CORROSION
ELECTROCHEMICAL STUDY ON STRESS CORROSION CRACKING OF ALPHA BRASS 67-01 M18-57452
ON THE STRESS-CORROSION RESISTANCE OF SILICON BRASS WITH AND WITHOUT SURFACE PROTECTION BY ELECTROPLATING 67-02 M18-59972
ELECTROCHEMICAL BEHAVIOR OF CU-ZN ALLOYS IN NACL SOLUTIONS 67-02 M18-59986
DEZINCIFICATION OF BRASS 67-02 M18-59987
EFFECTS OF ARSENIC ON ELECTRO-CHEMICAL BEHAVIORS OF COPPER AND COPPER-ZINC ALLOYS IN 3 PER CENT NACL AQUEOUS SOLUTION 67-02 M18-59988
ON THE MECHANISM OF STRESS CORROSION 67-02 M18-60215
THE CORROSION PROTECTION OF ALUMINIUM BRASS BY FERROUS OR FERRIC ION 67-02 M18-60272
CORROSION OF COPPER-ZINC ALLOYS UNDER THE EFFECT OF ALTERNATING CURRENT 67-02 M18-61562
SOME VAPOR PHASE INHIBITOR EXPERIMENTS 67-03 M18-65474
MECHANISM OF INTERGRANULAR STRESS CORROSION CRACKING IN 70 CU-30 ZN ALLOY 67-03 M18-65845
THE CORROSION OF METALS IN THE WATER OF THE DEAD SEA 67-04 M16-67431
STRESS CORROSION EXPERIMENTS ON UNPROTECTED MS 63 BRASS AFTER VARIOUS DEGREES OF COLD WORK 67-04 M18-67083
THE TREATMENT OF DEZINCIFICATION 67-04 M18-67489
INVESTIGATION OF THE POSSIBLE PREVENTION OF THE STRESS CORROSION OF BRASS BY NONMETALLIC INORGANIC AND ORGANIC COATINGS 67-05 M18-68921
CORROSION PROTECTION THROUGH BLUEING AND BLACKING 67-05 M18-69104
COMPARATIVE STUDY OF THE KINETICS AND MECHANISM OF DEZINCIFICATION OF 70/30 BRASSES WITH OR WITHOUT ADDITIONS OF TIN AND ARSENIC 67-05 M18-69113
CORROSION/EROSION 67-06 M18-70230
CONTRIBUTION TO THE PHENOMENOLOGY OF CORROSION AND PATINA FORMATION OF ANTIQUE COPPER ALLOYS 67-06 M18-70245
MECHANISM OF STRESS CORROSION CRACKING OF FACE CENTERED CUBIC ALLOYS 67-08 M18-74409
THE USE OF PULSED APPLIED VOLTAGE IN THE DERIVATION OF CORROSION RATES FROM POLARIZATION RESISTANCE MEASUREMENTS 67-09 M18-77484
POSSIBLE PREVENTION OF THE STRESS CORROSION OF BRASS BY ACTIVE PROTECTION 67-09 M18-78177
SOME PHENOMENA OBSERVED RELATING TO FILIFORM CORROSION 67-10 M18-78586
DEZINCIFICATION OF BRASS 67-10 M18-80009
STRESS CORROSION OF 70/30 BRASS TUBES WITH TENSILE AND COMBINED TENSILE AND HOOP STRESSES 67-10 M18-80011
CORROSION CRACKING OF HIGH-STRENGTH STRUCTURAL STEELS 67-11 M18-80583
SELECTION OF INHIBITORS FOR LONG-TERM CONSERVATION OF WATER SYSTEMS 67-11 M18-81283
ATMOSPHERIC CORROSION TESTS IN SWEDEN. COPPER AND COPPER ALLOYS 67-11 M18-81521
ANODIC DISSOLUTION CF COPPER-ZINC ALLOYS IN ALKALINE SOLUTIONS 67-11 M18-81548
STRUCTURE OF TARNISH FILMS ON STRESS-CORROSION FRACTURE SURFACES OF TI-5 PER CENT AL-2.5 PER CENT SN ALLOY TESTED IN NITROGEN TETROXIDE 67-12 M18-82871
STRESS CORROSION CRACKING OF FIRED BULLETS OF BRASS 67-12 M18-82893
FIELD CORROSION TESTS FOR COMPARISON OF CORROSIVITY IN JAPAN AND CHINA 67-12 M18-82894
THE EFFECT OF GRAIN BOUNDARY STRUCTURE ON THE INTERCRYSTALLINE STRESS CORROSION BEHAVIOR OF BRASS ALLOYS 67-12 M18-83142
BRASSES, COUPLINGS
FORGED HIGH PRESSURE HYDRAULIC HOSE FITTINGS 67-05 M20-69553
BRASSES, CRYSTAL DEFECTS
UNSTABLE DISLOCATIONS IN ANISOTROPIC CRYSTALS 67-05 M14-69777
BRASSES, CRYSTAL LATTICES
CONTRAST EFFECTS DUE TO ELASTIC ANISOTROPY IN BETA-BRASS 67-02 M13-60814
ANOMALOUS CONTRAST FROM AN ANTI-PHASE DOMAIN BOUNDARY IN BETA-BRASS 67-02 M13-60815
THE INFLUENCE OF DEFORMATION ON COHERENCE LENGTH, LATTICE DISTORTIONS AND STACKING FAULT PROBABILITY OF UNIAXIALLY STRAINED HOMOGENEOUS AND HETEROGENEOUS ALLOYS 67-02 M13-60876
APPROXIMATE CALCULATION OF ELECTRONIC STRUCTURE OF DISORDERED ALLOYS-APPLICATION TO ALPHA BRASS 67-02 M16-60768
DISLOCATION MORPHOLOGY IN SHOCK DEFORMED BCC AND FCC METALS AND ALLOYS 67-04 M13-66071
VACANCY-DISLOCATION INTERACTIONS IN A BETA BRASS CONTAINING 4 PER CENT ALUMINUM 67-05 M13-69464
PAIR-CORRELATION FUNCTION IN DISORDERED BETA-BRASS AS STUDIED BY NEUTRON DIFFRACTION 67-05 M14-69806
TEMPERATURE DEPENDENCE OF SHORT-RANGE ORDER IN BETA-BRASS 67-05 M14-69807
LONG-RANGE ORDER AND CRITICAL SCATTERING OF NEUTRONS BELOW THE TRANSITION TEMPERATURE IN BETA-BRASS 67-05 M14-69808
ORIENTATION CHANGES OF SINGLE CRYSTALS OF FACE CENTERED CUBIC METALS ON WIRE DRAWING. PT. 3. DISCUSSION OF THE RESULTS 67-05 M14-69849
DISLOCATION CONFIGURATIONS IN WIRE-DRAWN POLYCRYSTALLINE COPPER ALLOYS.. A STUDY BY X-RAY DIFFRACTION 67-06 M13-71089
OBSERVATIONS OF DEFECTS IN BETA BRASS 67-07 M13-73919
EFFECTS OF SPECIMEN THICKNESS AND ORIENTATION ON WEIGHT LOSS OF ALPHA-BRASS SINGLE CRYSTALS DUE TO HEATING IN VACUUM 67-08 M13-74604
THE INFLUENCE OF LARGE ELASTIC ANISOTROPY ON THE DETERMINATION OF BURGERS VECTORS OF DISLOCATIONS IN BETA BRASS BY ELECTRON MICROSCOPY 67-08 M13-75222
THE IDENTIFICATION OF BURGERS VECTORS AND UNSTABLE DIRECTIONS OF DISLOCATIONS IN BETA BRASS 67-08 M13-75223
THE FACTORS DETERMINING THE FREQUENCY OF OCCURRENCE OF ANNEALING TWINS 67-08 M13-75333
ULTRASONIC MEASUREMENTS OF DEFORMED AND ANNEALED MILL PRODUCTS 67-11 M13-80347
FORMATION OF STACKING FAULTS IN POLYCRYSTALLINE BRASS DURING TENSILE DEFORMATION 67-12 M13-82541
AN X-RAY DIFFRACTION STUDY OF POLYCRYSTALLINE BRASS DEFORMED IN TENSION 67-12 M13-82736
BRASSES, CUTTING
ACTION OF GASEOUS ENVIRONMENT IN METAL CUTTING--SURFACE ROUGHNESS AND TOOL FORCES WHEN MACHINING WITH OXYGEN JET 67-01 M08-57590
APPLICATION OF THE MECHANICS OF PLASTIC DEFORMATION

TO METAL CUTTING 67-03 M08-65988
SURFACE ROUGHNESS FORMATION IN METAL CUTTING 67-06 M19-72147

BRASSES, DIFFUSION
A SIMPLE EVALUATION OF GRAIN BOUNDARY DIFFUSION IN LIQUID METAL EMBRITTLEMENT 67-04 M14-66273
STRUCTURAL INVESTIGATION OF REACTION DIFFUSION IN THE COPPER-ZINC SYSTEM 67-04 M14-66486
INTERDIFFUSION IN THE CU-ZN SYSTEM 67-04 M14-67145
RADIATION-ENHANCED DIFFUSION IN METALS 67-04 M14-67315

BRASSES, DRAWING
THE INFLUENCE OF THE PRODUCTION PROCESS ON EARING WITH BRASS 67-01 M08-57285

BRASSES, ELECTRODES
ELECTROCHEMICAL STUDIES ON COPPER ALLOYS IN STAGNANT AND MOVING 3 PER CENT NACL AQUEOUS SOLUTIONS CONTAINING HYDROGEN SULFIDE 67-01 M18-58334

BRASSES, EXPLODING WIRES
X-RAY STUDY OF KINETICS OF HEATING AND EVAPORATION OF EXPLODING WIRES 67-01 M15-58600

BRASSES, EXTRUSION
BASIS OF DIFFERENTIATED EXTRUSION 67-02 M07-59402
THE EXTRUSION OF COPPER AND ALLOYS FOR TUBE MANUFACTURE 67-02 M07-61652
INVESTIGATION OF SURFACE CHANGES DURING FORWARD EXTRUSION 67-05 M07-68564
THE HIGH-SPEED EXTRUSION OF SOME COMMON METALS 67-05 M08-68719

BRASSES, FORGING
AUTO-FORGE--NEW WEAPON FOR FORGERS ARSENAL 67-10 M07-78500

BRASSES, FORMING
THE EXPLOSIVE DRAWING OF SQUARE AND FLAT-BOTTOMED CIRCULAR CUPS AND BUBBLE PULSATION PHENOMENA 67-05 M08-69741

BRASSES, HEAT TREATMENT
RECOVERY AND THE BEGINNING OF PRIMARY RECRYSTALLIZATION DURING THE RAPID HEATING OF BRASS L62 67-02 M14-61673
DYNAMIC STRAIN AGING OF ALPHA-BRASS 67-02 M14-61891

BRASSES, HEATING
OPTIMUM CONDITIONS FOR ELECTRIC ARC HEATING OF COPPER ALLOY INGOT AND CASTING HEADS 67-09 M10-77133

BRASSES, IRRADIATION
THE IDENTIFICATION OF SMALL QUANTITIES OF MATERIAL BY EXO ELECTRONS 67-06 M19-72143

BRASSES, MACHINING
MACHINABILITY OF FREE CUTTING BRASSES 67-03 M08-65700
THREAD ROLLING--FEEDS, REVS AND BLANK DESIGN 67-05 M08-69022
VIBRATORY GRINDING AND VIBRATORY POLISHING OF STEEL IN METALLOGRAPHY. PT. 2 67-09 M08-78182
IMPACT BURNISHING--TOOL DESIGN AND APPLICATIONS 67-11 M08-81695
MACHINING--NEW TRENDS IN OLD TECHNIQUES 67-12 M08-83134
RADIOACTIVE TOOL-WEAR TESTING ON FREE-CUTTING BRASS 67-12 M17-83285

BRASSES, MECHANICAL PROPERTIES
CHANGE IN THE FINE STRUCTURE OF BRASS DURING ANNEALING 67-01 M13-58090
ON THE EMBRITTLING PHENOMENON OF COPPER ALLOYS DURING ANNEALING. --REPORT 2--. FACTORS AFFECTING THE EMBRITTLEMENT OF ALPHA BRASS DURING ANNEALING 67-01 M17-57453
METALS FATIGUE 67-01 M17-58363
CALCULATION OF THE POLYCRYSTALLINE RADIOGRAPHIC ELASTIC CONSTANTS OF TWO-PHASE ALPHA- BETA BRASS 67-01 M17-58388
RELATION BETWEEN PURE SHEAR AND SIMPLE SHEAR IN PLASTIC RANGE. PT. 2. EXPERIMENT 67-02 M17-58821
THREE SHEAR THEORY OF PLASTICITY 67-02 M17-58822
ANISOTROPY DUE TO PLASTIC DEFORMATION 67-02 M17-58823
INFLUENCE OF INTERMEDIATE PRINCIPAL STRESS ON PLASTIC FLOW 67-02 M17-58825
STRAIN RATIO RELATIONSHIP IN PLASTIC DEFORMATION 67-02 M17-58826
THE SHAPE OF MECHANICAL HYSTERESIS LOOP, ITS DEFORMATION DUE TO STRESS REPETITION AND RESULTING INCREASE IN FLOW STRESS. PT. 1. EXPERIMENT 67-02 M17-58827
THE SHAPE OF MECHANICAL HYSTERESIS LOOP, ITS DEFORMATION DUE TO STRESS REPETITION AND RESULTING INCREASE IN FLOW STRESS. PT. 2. THEORY FOR TORSION 67-02 M17-58828
INFLUENCE OF THE VARIOUS SHAPES OF STRESS SPECTRA ON FATIGUE STRENGTH OF MATERIALS 67-02 M17-59708
ELASTIC-PLASTIC PROPERTIES OF A SERIES OF METALS DURING EXPLOSIVE LOADING 67-02 M17-59937
MECHANICAL PROPERTIES OF L62 BRASS AFTER HIGH-SPEED RECRYSTALLIZATION ANNEALING 67-02 M17-59947
THE FATIGUE STRENGTH OF SINTERED MATERIALS 67-02 M17-60507
CORRELATION OF OPTICAL AND ELECTRON-OPTICAL OBSERVATIONS IN TORSION FATIGUE OF BRASS 67-02 M17-60643
INVESTIGATION OF THE CRACKING SUSCEPTIBILITY AND MECHANICAL PROPERTIES OF SILICON BRASSES 67-02 M17-62057
THE ULTRA-COLD WORKED DUCTILE STATE OF 70/30 BRASS. COMPARISON WITH MAGNESIUM 67-03 M17-65550
INFLUENCE OF TEMPER ON THE FATIGUE STRENGTH OF CARTRIDGE BRASS --ALLOY 260-- SHEET 67-04 M17-66680
RHEOTROPIC RECOVERY IN BETA BRASS 67-04 M17-67051
THE DEEP DRAWING BEHAVIOR OF SEMIHARD CU AND ALPHA BRASS 67-04 M17-67082
THE MECHANISM OF RADIATION-HARDENING OF FCC METALS BY FAST NEUTRONS 67-04 M17-67313
THE CONFIGURATION OF IMPACT ENERGY-DEFLECTION DIAGRAMS 67-04 M17-67412
BRASS FORGING MAKES SCUBA GEAR FAIL-SAFE 67-04 M20-66168
EFFECT OF THE CONDITIONS OF THERMOMECHANICAL WORKING ON FRACTURE IN LEAD ALPHA-BRASS IN THE PROCESS OF ANNEALING 67-05 M17-69276
CHANGE IN THE MECHANICAL PROPERTIES OF GAMMA BRASS AT HIGH TEMPERATURES 67-06 M17-70174
GRAIN SIZE DEPENDENCE OF EMBRITTLING PHENOMENON OF BRASS DURING ANNEALING 67-06 M17-70784
EMBRITTLING PHENOMENON OF COPPER ALLOYS DURING ANNEALING. PT. 3. GRAIN SIZE DEPENDENCE OF EMBRITTLING PHENOMENON OF BRASS DURING ANNEALING 67-06 M17-71441
ON THE CALCULATION OF POLYCRYSTALLINE ELASTICITY CONSTANTS FROM SINGLE CRYSTAL DATA 67-06 M17-71669
ELASTOPLASTIC PROPERTIES OF A NUMBER OF METALS EXPOSED TO EXPLOSIVE SHOCK LOADING 67-07 M17-72592
EFFECT OF IRON CONTENT IN SAND-CAST COMPLEX BRASS BS1400..HTB2 AND HTB3 67-07 M17-74256
COMPRESSIVE DEFORMATION AFFECTED BY SUPERIMPOSED ULTRASONIC VIBRATION 67-08 M17-74411
FAULTS IN DESIGN REVEALED BY SERVICE FAILURES. PT. 1 67-08 M17-75614
INFLUENCE OF THE ZINC CONTENT AND PRE-COLD WORK ON THE PLASTIC PROPERTIES OF POLYCRYSTALLINE ALPHA BRASSES 67-09 M17-77589
THE RECRYSTALLIZATION KINETICS OF DRAWN COPPER AND ALPHA-BRASS BARS DURING THE ISOTHERMAL DETERMINATION OF ELASTIC MODULI AT HIGH TEMPERATURES 67-09 M17-78180
RELATION BETWEEN INTERNAL STRESSES AND MECHANICAL PROPERTIES OF BRASS TUBES MADE BY COLD WORKING 67-10 M17-79744
STUDIES ON THE SUBSTRUCTURE DEVELOPED AROUND FATIGUE CRACKS 67-11 M17-81065
ELECTRON MICROSCOPIC STUDY OF SUBSTRUCTURE DEVELOPED AROUND FATIGUE CRACKS 67-11 M17-81066
HARDNESS OF STRAINED METAL 67-11 M17-81160
THE PROPERTIES OF SOME SUBSTITUTE BEARING ALLOYS 67-12 M01-82890
SIMILARITY CRITERIA FOR THE ACTION OF MERCURY ON BRASS 67-12 M17-82181
THE EFFECT OF ELECTROLYTIC HYDROGEN UPON THE DUCTILITY OF METALS AND ALLOYS 67-12 M17-82441

BRASSES, MECHANICAL TESTS
A METHOD FOR INTERRUPTING A HIGH STRAIN RATE TENSION TEST BEFORE SPECIMEN FRACTURE 67-01 M17-58770
A NEW HARDNESS NUMBER FOR THE BALL TEST OF NONFERROUS METALS AND ALLOYS 67-02 M17-58896

BRASSES

BRASSES, MELTING
THE MELTING OF BRASS WITH A HIGH ZN CONTENT IN A CORELESS LOW-FREQUENCY INDUCTION FURNACE 67-03 M06-65353

BRASSES, METAL FORMING
A SIMPLE TECHNIQUE FOR SHOCK DEFORMING METAL FOILS 67-08 M08-74393

BRASSES, METAL WORKING
DISCUSSION OF THE STRETCH-FORMABILITY 67-01 M08-58246
QUALITY CONSIDERATIONS IN THE MANUFACTURE OF WROUGHT NON-FERROUS --COPPER AND COPPER ALLOY-- PRODUCTS 67-01 M19-58789
HERF SHEARS EDGES CLEAN 67-02 M07-61006
MATHEMATICAL MODELING OF TUBE PRODUCTION 67-02 M07-61620
APPLICABILITY TO OTHER METALS OF DRAWABILITY TESTS WITH STEELS 67-04 M08-66398
THE DEFORMATION OF SHEET METAL THROUGH UNDERWATER SPARK DISCHARGES 67-04 M08-67060
COMBINATION DRAWING OF LIGHT-GAGE MATERIAL 67-05 M07-69440
PRODUCTION TUBE BENDING 67-06 M07-70595
OBSERVATIONS OF SUBSTRUCTURES IN EXPLOSIVELY DEFORMED AND ANNEALED BETA BRASS 67-06 M14-69938
STAMPING OF WRIST WATCH CASINGS 67-07 M07-73441
MAGNETISM TAMED FOR FORMING 67-07 M07-73693
GKN COLD FORGING PARTS 67-08 M07-76098
DETERMINATION OF DRAWING HOLE CONFIGURATION REQUIRING MINIMUM DRAWING FORCES IN THE DRAWING OF ROUND ROD AND WIRE 67-09 M08-77082
COMPARISON OF DEEP DRAWING TESTS --RESULTS OF COOPERATIVE TESTING PROGRAM OF WORKING GROUP III OF THE INTERNATIONAL DEEP DRAWING RESEARCH GROUP-- 67-09 M17-76382
A FURTHER INVESTIGATION OF THE ERICHSEN TEST 67-10 M17-78502
DEEP DRAWING WITH ULTRAHIGH PRESSURE 67-11 M08-80518
INFLUENCE OF WALL THICKNESS ON PRECISION DURING MANUFACTURE OF BOTTOMS BY SPIN FORMING 67-12 M08-81800
THE MECHANISM OF FORMING IN BENDING 67-12 M17-82776

BRASSES, MICROSTRUCTURE
TEXTURES AS CAUSES OF EARING 67-01 M08-57286
ELECTRON MICROSCOPE STUDY OF THE EFFECT OF LOW-TEMPERATURE ANNEALING ON THE STRUCTURE OF THE COLD-DEFORMED ALLOYS BR. A7 AND L62 67-02 M13-61162
A STUDY OF THE MECHANISM OF INTERGRANULAR CREEP CAVITATION BY SHADOWGRAPHIC ELECTRON MICROSCOPY 67-02 M17-60641
THE RE-EXAMINATION OF A PUBLISHED MICROGRAPH 67-05 M13-68300
TOPOLOGY OF SURFACE GRAINS AFTER ANNEALING OR CREEP 67-05 M14-68692
VOLUME CHANGES OF GAMMA BRASSES WITH TEMPERATURE 67-05 M14-69267
PROBLEMS IN THE DIRECT DETERMINATION OF GRAIN SIZE AT ELEVATED TEMPERATURES 67-06 M13-72160
SOME ASPECTS OF DUCTILE FRACTURE IN METALS 67-06 M17-70623
TOPOLOGY OF SURFACE GRAINS AFTER ANNEALING OR CREEP 67-08 M13-76207
VIBRATING GRINDING AND VIBRATORY POLISHING OF STEEL IN METALLOGRAPHY. PT. 1 67-09 M13-77795

BRASSES, PHASE TRANSFORMATIONS
STRUCTURAL TRANSFORMATIONS IN BETA BRASS 67-01 M14-57358
HIGH-TEMPERATURE X-RAY INVESTIGATIONS OF GAMMA BRASSES 67-04 M14-66033
INVESTIGATION OF THE DECOMPOSITION OF A ZINC-SUPERSATURATED BETA PHASE IN THE COPPER-ZINC SYSTEM 67-05 M14-69275
THE BAINITE TRANSFORMATION OF BETA-BRASS 67-07 M14-73929

BRASSES, PHYSICAL PROPERTIES
THE EFFECT OF THE ZN CONCENTRATION ON THE INTERNAL FRICTION OF BRASSES 67-04 M15-67234
EFFECT OF PLASTIC DEFORMATION ON THE ABSOLUTE THERMOPOWER OF ALPHA-BRASS 67-11 M15-80633

BRASSES, PLASTIC DEFORMATION
TENSILE TESTS WITH VARYING SPEED OF DEFORMATION OF ALPHA-BRASS 67-01 M17-57288

BRASSES, POROSITY
EVAPORATION AND FORMATION OF PORES IN ALUMINUM ALLOYS AND CU-ZN ALLOYS 67-02 M15-59763
EVAPORATION AND PORE FORMATION IN ALUMINUM AND COPPER-ZINC ALLOYS 67-08 M15-76119

BRASSES, POWDER METALLURGY
TOKENS AND MEDALLIONS MADE BY POWDER METALLURGY 67-05 M09-68948

BRASSES, REACTIONS /CHEMICAL/
DAMAGE CAUSED BY DEZINCIFICATION 67-04 M14-67081
EFFECT OF AGING TIME ON PROGRESS OF CHEMICAL REACTIONS BETWEEN POWDERED BRASS SURFACES AND STEARIC ACID 67-05 M09-69280
KINETIC STUDIES OF THE DISSOLUTION OF BRASS 67-08 M14-75400

BRASSES, ROLLING
RATIONALIZATION OF ROLLING AND DRAWING PROCESS DESIGNS ANALYSIS 67-01 M07-58576
CLOSER TOLERANCE ALUMINIUM STRIP JUSTIFIES ADVANCED MILL DESIGN 67-02 M07-61849
AN IMPROVED TECHNOLOGY FOR HOT ROLLING OF COPPER-ZINC ALLOYS 67-07 M07-72784
ORIENTATION DISTRIBUTION OF CRYSTALLITES IN ROLLED 70-30 BRASS DETERMINED BY MEANS OF SELECTED AREA ELECTRON DIFFRACTION --SAED-- 67-07 M13-73847
HOT ROLLING OF LEAD CONTAINING BRASSES 67-11 M07-80370

BRASSES, SHEET /METAL/
ON TESTING DRAW PROPERTIES OF THIN-SHEET METALS ON PTL-10 AND MTL-10 TESTERS 67-01 M17-57246
ELECTRON MICROSCOPIC OBSERVATION ON THE RECRYSTALLIZATION OF THE HEAVILY ROLLED SHEET OF 7-3 BRASS 67-11 M14-81063

BRASSES, SINGLE CRYSTALS
CHEMICAL ETCHANTS FOR DISLOCATIONS IN ALPHA BRASS 67-12 M13-82983
HIGH-FIELD MAGNETORESISTANCE OF ORDERED BETA BRASS 67-12 M15-82528

BRASSES, SOLDERING
MICROPROBE INVESTIGATIONS OF DIFFUSION PHENOMENA IN SOLDERED AND BRAZED JOINTS 67-06 M11-70240

BRASSES, SURFACE FINISHING
POLISHING--MANUAL AND MECHANICAL 67-01 M12-57559
RESEARCHES ON BARREL FINISHING 67-12 M12-83598

BRASSES, THERMAL PROPERTIES
HIGH TEMPERATURE HEAT CONTENTS OF THREE ALPHA BRASS ALLOYS 67-06 M15-70952

BRASSES, WEAR
WEAR MECHANISM OF THE SURFACE OF CU-ZN METAL GROUP IN THE PRESENCE OF MERCURY AND ULTRASONIC VIBRATIONS 67-07 M17-73162

BRASSES, WELDING
THE MASH-LAP WELDING PROCESS 67-02 M11-59486
LASER WELDING OF CERTAIN METALS 67-02 M11-59511
SPOT WELDING OF DISSIMILAR METALS--BRASS-TERNE PLATE JOINING 67-02 M11-59760
CAPACITOR DISCHARGE MACHINES FOR SPOT-WELDING OF LIGHT ALLOYS 67-02 M11-60018
LASER WELDING OF SOME METALS 67-04 M11-66460
METALLURGICAL PROCESSES IN THE SOLDERING OF CU AND THE STRENGTH BEHAVIOR OF SOLDERED JOINTS 67-04 M11-67077
PHYSICAL CHARACTERISTICS OF THE ARC UNDER CONDITIONS OF INTENSIVE EVAPORATION OF ZINC FROM THE WELDING POOL --IN WELDING BRASS-- 67-06 M11-70387
THE PHYSICAL PECULIARITIES OF THE ARC ACCOMPANYING INTENSE EVAPORATION OF ZINC FROM THE MOLTEN POOL --IN THE WELDING OF BRASS-- 67-09 M11-78087
A TECHNIQUE FOR WELDING BRASS TO HIGH STRENGTH LOW ALLOY STEEL 67-09 M11-78143
AUTOMATIC BUILDUP OF BRASS 67-10 M11-78411
RESISTANCE WELDING OF BRASS 67-10 M11-78412
PIGME, A NEW AUTOMATIC INERT ARC WELDING PROCESS 67-10 M11-79194
NEW TECHNIQUES OF MANUFACTURING BRASS CONDENSER TUBING 67-12 M11-82494

BRASSES, X RAY ANALYSIS
INVESTIGATION OF QUANTITATIVE ANALYTICAL METHOD WITH X-RAY FLUORESCENCE. --REPORT 5--. CORRECTION METHOD OF THE MATRIX EFFECT ON THE DETERMINATION OF COPPER AND ZINC IN BRASSES 67-01 M19-57451

BRAZABILITY
BRAZING STRONG, RELIABLE JOINTS 67-05 M11-68773

THE PROMOTION OF WETTING AND BRAZING
67-06 M11-70136

BRAZE
SEE BRAZING

BRAZE BONDING
SEE BRAZING

BRAZE WELDING
METALS JOINING 67-04 M11-66193
FABRICATION OF BERYLLIUM STRUCTURES BY BRAZE-WELDING, BRAZING AND SOLDERING
67-04 M11-67889
AUTOMATIC FLAME ASSEMBLY 67-10 M11-79805

BRAZE WELDS
SEE BRAZE WELDING
WELDED JOINTS

BRAZED JOINTS, COATING
THE EFFECT OF THE THROWING POWER OF SN-PB ELECTROLYTES ON THE UNIFORMITY OF LAYER THICKNESS IN PRODUCTION ELECTROPLATING
67-08 M12-75503

BRAZED JOINTS, HEAT TREATMENT
CRYOGENIC QUENCHING 67-07 M10-74225

BRAZED JOINTS, MECHANICAL PROPERTIES
A FLUX FOR FURNACE BRAZING ALUMINUM AND ITS ALLOYS
67-04 M11-66571
INVESTIGATION OF THE EFFECT OF THE CONSTRUCTION OF FITTINGS WITH BRAZED JOINTS ON THE FATIGUE STRENGTH OF PIPELINES 67-04 M17-66828
MN AS AN ALLOYING ADDITION TO LMS 60. PT. 2
67-05 M11-68518
EFFECT OF VIBRATION ON PROPERTIES AND STRUCTURE OF BRAZED SEAMS 67-05 M11-69410
A FLUX FOR THE FURNACE BRAZING OF ALÚMINIUM AND ALUMINIUM ALLOYS 67-07 M11-73428
DESIGNING FOR SILVER ALLOY BRAZING
67-07 M11-74094
EFFECTS OF VIBRATIONS ON THE PROPERTIES AND STRUCTURES OF BRAZED SEAMS 67-10 M11-78514
DIFFUSION WELDING AND BRAZING OF TITANIUM 6AL-4V PROCESS DEVELOPMENT 67-12 M11-82819

BRAZED JOINTS, MECHANICAL TESTS
A BRAZED TENSILE TEST-PIECE 67-02 M17-59798

BRAZED JOINTS, MICROSTRUCTURE
ON ORIENTED CRYSTALLISATION IN BRAZED SEAMS
67-12 M14-82417

BRAZING
SEE ALSO ARC BRAZING
DIP BRAZING
FURNACE BRAZING
INDUCTION BRAZING
INERT GAS BRAZING
RESISTANCE BRAZING
VACUUM BRAZING
REFRACTORY COMPOUND FOR FIXING PARTS FOR BRAZING
67-01 M11-58190
GALVANIZED STEELS FOR FABRICATED METAL PRODUCTS. PT. 2. FORMING, WELDING, SOLDERING AND PAINTING
67-01 M11-58794
ALUMINUM AND ALUMINUM ALLOYS IN SHEET, PLATE AND TUBE FORM 67-01 M17-58306
PRODUCT DESIGNS NEW TREND--ITS A NATURAL FOR BRAZING 67-02 M11-60931
METHOD OF PRODUCING SEMICONDUCTOR MOUNTS
67-02 M11-60937
OBSERVATIONS ON THE USE OF BRAZING IN ELECTRICAL INDUSTRIES AND ELECTRONICS 67-02 M11-60989
GOLD BRAZING ALLOYS OR SOLDERS 67-02 M20-58916
MECHANISM OF SELF-FLUXING SOLDERS
67-03 M11-65049
CERAMIC-TO-METAL JOINTS 67-04 M11-66288
BRAZED GRAPHITE-METAL COMPOSITES FOR SPACE RADIATORS 67-04 M11-66386
WELDING FLANGED AND BUTT JOINTS BY IMMERSING THEM IN THE MOLTEN POOL 67-04 M11-67010
MN AS AN ALLOYING COMPONENT IN BRAZING ALLOYS FOR LMS 60 BRASS. PT. 1 67-04 M11-67080
EXOTHERMICALLY BRAZED HYDRAULIC FITTINGS FOR AIRCRAFT 67-04 M11-67625
GROWTH OF DIFFUSION LAYER IN COPPER JOINTS BRAZED WITH TIN-LEAD SOLDERS 67-04 M11-67805
FABRICATION OF BERYLLIUM STRUCTURES BY BRAZE-WELDING, BRAZING AND SOLDERING
67-04 M11-67889
INVESTIGATION OF THE EFFECT OF THE CONSTRUCTION OF FITTINGS WITH BRAZED JOINTS ON THE FATIGUE STRENGTH OF PIPELINES 67-04 M17-66828
TWO NEW BREAKS FOR CARBIDES 67-04 M20-67767
SLIM TWO-PIECE GEARS FABRICATED BY BRAZING
67-05 M11-68306
BRAZING STRONG, RELIABLE JOINTS
67-05 M11-68773
WETTING OF SOLID-METAL SURFACES BY MOLTEN METALS
67-05 M15-69561
AUTOMATIC SOLDERING AND BRAZING
67-06 M11-69954
MICROPROBE INVESTIGATIONS OF DIFFUSION PHENOMENA IN SOLDERED AND BRAZED JOINTS 67-06 M11-70240
NATURE AND GROWTH KINETICS OF THE DIFFUSION LAYER IN COPPER JOINTS MADE WITH TIN-LEAD SOLDERS
67-06 M11-70305
A METHOD OF LOCAL TINNING OF HUNTING RIFLE BARRELS
67-06 M11-70398
BRAZING BREAKTHROUGH JOINS REFRACTORY HONEYCOMB
67-06 M11-70569
SENDZIMIR-GALVANIZED WIDE STRIP--APPLICATIONS AND PROCESSING 67-06 M12-71565
BRAZING OF TITANIUM AND TITANIUM ALLOYS
67-07 M11-72420
BRAZING OF MO AND W WITH SN-BASE BRAZING ALLOY
67-07 M11-72735
DIFFUSION BRAZING IN STAINLESS STEEL FUEL ELEMENTS FOR WATER COOLED POWER REACTORS
67-07 M11-73900
DESIGNING FOR SILVER ALLOY BRAZING
67-07 M11-74094
APPLICATION OF A COMBINED WELDING-BRAZING PROCESS FOR WELDED STRUCTURES 67-08 M11-74377
FLUXLESS ALUMINUM BRAZING SHOWS PROMISE
67-08 M11-74456
BRAZING 67-08 M11-74850
SILVER BIMETALS 67-08 M11-75634
AN EXPERT LOOKS AT HIGH TEMPERATURE BRAZING
67-09 M11-76657
RESEARCH FACTORS IN BRAZING 67-09 M11-77204
BRAZING OF METAL-CERAMIC CONTACTS
67-09 M11-77619
MAINTENANCE SOLDERING WELDING AND BRAZING
67-09 M11-77764
RECRYSTALLIZATION BEHAVIOR AND BRAZING OF THE TZM MOLYBDENUM ALLOY 67-09 M11-78146
AN ORDERED SOLID SOLUTION IN THE CHROMIUM-MOLYBDENUM SYSTEM 67-09 M13-76935
BRAZING OF GRAPHITE AND SOME OTHER MATERIALS
67-10 M11-78406
THE NICKEL SILVERS 67-10 M11-78874
AN EXPERT LOOKS AT HIGH TEMPERATURE BRAZING
67-10 M11-79477
A SOLDER OF LOW VAPOUR PRESSURE FOR STEPWISE SOLDERING IN THE TEMPERATURE RANGE 450-600 C
67-10 M11-79621
CARBIDE AND CERAMIC INSERTS 67-10 M20-79300
FLUXLESS BRAZING MAKES HEADWAY 67-11 M11-80766
FLUXLESS BRAZING OF STAINLESS STEEL
67-11 M11-80904
COPPER ALLOYS IN PUMP CONSTRUCTION
67-12 M01-83210
SOLDERING MOLYBDENUM AND TUNGSTEN WITH TIN BASE SOLDERS 67-12 M11-82314
TERMINATING ALUMINUM CONDUCTORS
67-12 M11-82469
DIFFUSION WELDING AND BRAZING OF TITANIUM 6AL-4V PROCESS DEVELOPMENT 67-12 M11-82819
BRAZED, VACUUM-TICHT CERAMIC-METAL JOINTS
67-12 M11-83008
FLASH BRAZING WITH HEATING IN GLYCERIN
67-12 M11-83194
ON ORIENTED CRYSTALLISATION IN BRAZED SEAMS
67-12 M14-82417

BRAZING, AUTOMATION
AUTOMATION FOR BRAZING AND SOLDERING
67-10 M11-79192

BRAZING, TEMPERATURE EFFECTS
THE EFFECT OF THE MATERIAL ON BRAZING TEMPERATURES
67-09 M11-78178

BRAZING ALLOYS
SEE ALSO SILVER BRAZING ALLOYS
BRAZING OF ALUMINUM BRONZE 67-01 M11-57374
DIFFUSION BRAZING OF TITANIUM USING INTERMEDIATE ELECTRODEPOSITS 67-02 M11-59516
SELF-FLUXING SOLDER FOR BRAZING STAINLESS STEELS AND HEAT-RESISTANT ALLOYS 67-02 M11-60837
PRODUCT DESIGNS NEW TREND--ITS A NATURAL FOR BRAZING 67-02 M11-60931
MECHANISM OF SELF-FLUXING SOLDERS
67-03 M11-65049
MN AS AN ALLOYING COMPONENT IN BRAZING ALLOYS FOR LMS 60 BRASS. PT. 1 67-04 M11-67080
BRAZING OF TITANIUM WITH LI-CONTAINING SILVER

BRAZING ALLOYS
67-04 M11-67590
GROWTH OF DIFFUSION LAYER IN COPPER JOINTS BRAZED WITH TIN-LEAD SOLDERS 67-04 M11-67805
SELF-FLUXING FILLERS FOR THE BRAZING OF STAINLESS STEELS AND HEAT RESISTING ALLOYS 67-04 M11-67994
DIFFUSION BRAZING OF TITANIUM WITH INTERMEDIATE ELECTROLYTIC COATINGS 67-04 M12-66465
CHROMIUM BRONZE AND ITS USE 67-04 M17-67141
MN AS AN ALLOYING ADDITION TO LMS 60. PT. 2 67-05 M11-68518
PRECIOUS METALS--GLAMOUR PUTS ON A HARD HAT 67-06 M01-70485
BRAZE ALLOY HOLDS BONDING STRENGTH OVER WIDE TEMPERATURE RANGE 67-06 M11-70011
NATURE AND GROWTH KINETICS OF THE DIFFUSION LAYER IN COPPER JOINTS MADE WITH TIN-LEAD SOLDERS 67-06 M11-70305
BRAZING ALLOYS, MATERIALS
BRAZING ALLOYS AND TECHNIQUES FOR TANTALUM HONEYCOMB STRUCTURES 67-11 M11-80412
BRAZING ALLOYS, MECHANICAL PROPERTIES
LOW-VAPOR PRESSURE BRAZING ALLOYS FOR GRADUAL BRAZING IN TEMPERATURE RANGE FROM 450 TO 600 C 67-06 M11-71653
A SOLDER OF LOW VAPOUR PRESSURE FOR STEPWISE SOLDERING IN THE TEMPERATURE RANGE 450÷600 C 67-10 M11-79621
BRAZING ALLOYS, WETTABILITY
BRAZING OF MO AND W WITH SN-BASE BRAZING ALLOY 67-07 M11-72735
BRAZING ATMOSPHERES
FURNACE BRAZING INCONEL 718 FOR NUCLEAR REACTORS 67-08 M11-74496
BRAZING FLUXES
A FLUX FOR FURNACE BRAZING ALUMINUM AND ITS ALLOYS 67-04 M11-66571
MODERN TECHNIQUES FOR ALUMINIUM BRAZING 67-06 M11-71436
A FLUX FOR THE FURNACE BRAZING OF ALUMINIUM AND ALUMINIUM ALLOYS 67-07 M11-73428
PASTE FLUXES FOR SILVER SOLDERING 67-09 M11-77244
FLUX PROBLEMS IN BRAZING 67-09 M11-77550
BRAZING FLUXES, REACTIONS /CHEMICAL/
THINGS YOU SHOULD KNOW ABOUT THOSE BRAZING FLUXES 67-08 M11-75527
BREAKDOWN
SEE ALSO DIELECTRIC BREAKDOWN
IONIC MIGRATION AS THE BREAKDOWN MECHANISM OF THIN ALUMINUM OXIDE LAYERS 67-06 M15-69961
BREAKDOWN MILLS
SEE HOT ROUGHING MILLS
BREAKERS /CRUSHERS/
SEE CRUSHERS
BREEDER REACTORS
CLADDING DEVELOPMENT FOR FAST BREEDER REACTORS 67-07 M12-73465
BREMSSTRAHLUNG
BREMSSTRAHLUNG AND TRANSITION RADIATION FROM AG FOILS BOMBARDED BY NON-NORMAL INCIDENCE ELECTRONS 67-04 M16-68138
BRICK
SEE ALSO FIREBRICK
SILICA BRICK
BRICK, BONDING
INVESTIGATION OF SILICON CARBIDE BRICK 67-03 M05-65356
BRICK, MECHANICAL PROPERTIES
MECHANISM OF CREEP IN MGO BRICK 67-12 M17-82993
BRICK, THERMAL PROPERTIES
A COMPARATIVE STUDY OF THE A. S. T. M. THERMAL CONDUCTIVITY AND THE BLAKELEY-COBB APPARATUS AS INSTRUMENTS FOR ROUTINE MEASUREMENTS OF THERMAL CONDUCTIVITY OF REFRACTORIES 67-05 M15-68476
BRICK KILNS
SEE KILNS
BRIDGES /ELECTRIC/
SEE WHEATSTONE BRIDGES
BRIDGES /STRUCTURES/
SEE ALSO GIRDER BRIDGES
RAILROAD OVERPASS DEPENDS ON HIGH-STRENGTH STEEL 67-01 M11-58757
ALUMINUM FOR BRIDGES 67-01 M20-57928
PRESENT USE OF HIGH-STRENGTH STEEL FOR BRIDGE AND PENSTOCK STRUCTURES 67-02 M17-59965
BRIDGES /STRUCTURES/, CORROSION
ANTI-CORROSIVE TREATMENT FOR THE SEVERN BRIDGE 67-01 M18-58511
THE CASE FOR GALVANIZED BRIDGES 67-09 M18-77666
BRIDGES /STRUCTURES/, MATERIALS
TWO SIMPLE ALUMINUM EXTRUSIONS SOLVE EXPANSION JOINT PROBLEM 67-09 M20-78169
BRIDGMAN METHOD
SEE CRYSTAL GROWTH
SINGLE CRYSTALS
BRIGHT ANNEALING
HIGH VACUUM ANNEALING 67-01 M10-58527
OPERATION OF A CONVEYOR FURNACE FOR TUBE ANNEALING IN A PROTECTIVE ATMOSPHERE OF DISSOCIATED AMMONIA 67-02 M10-61881
AUTO-FLO CONCENTRATES ON STAINLESS 67-02 M20-60689
OPERATION OF A CONVEYER FURNACE FOR ANNEALING TUBES IN A PROTECTIVE ATMOSPHERE OF CRACKED AMMONIA 67-04 M10-67700
HEAT TREATMENT OF SOME NONFERROUS, REFRACTORY, AND RARE METALS AND ALLOYS IN INERT ATMOSPHERES 67-08 M10-75098
SPECIAL PROPERTIES IMPARTED TO AUSTENITIC STAINLESS STEELS BY BRIGHT ANNEALING 67-10 M10-78324
EXPERIENCE OF USING SHIELDING ATMOSPHERES IN HEAT TREATING FURNACES 67-10 M10-78373
PROCESSING PRECIPITATION HARDENING GRADES 67-10 M10-79760
BRIGHT ANODIZING
EFFECT OF COPPER CONTENT AND HOMOGENIZATION HEAT TREATMENT ON BRIGHT ANODIZING OF 1MG AL ALLOY SHEETS 67-03 M12-65040
MANUFACTURE OF BRIGHT ANODIZED ALUMINUM PARTS FOR THE AUTOMOBILE INDUSTRY 67-04 M08-68018
BRIGHT ANODIZING OF ALUMINUM 67-04 M12-68031
REVIEW OF TWO PRINCIPAL TYPES OF ALLOYS 67-04 M12-68032
TECHNOLOGICAL ADVANCES IN ELECTROCHEMICAL FINISHING OF ALUMINUM 67-07 M12-74120
BRIGHT CHROMIUM PLATING
SEE BRIGHT PLATING
CHROMIUM PLATING
BRIGHT DIPPING
SEE BRIGHTENING
BRIGHT FINISHING
SEE ALSO BRIGHT ANODIZING
BRIGHT PLATING
CHEMICAL POLISHING
ELECTROPOLISHING
CHEMICAL AND ELECTROLYTIC BRIGHTENING OF ALUMINUM 67-05 M12-69894
NEW COATINGS FOR ZINC 67-06 M12-70727
INTERNAL STRESS IN ELECTRODEPOSITS. PT. 3 67-08 M12-74613
BRIGHT NICKEL PLATING
SEE BRIGHT PLATING
NICKEL PLATING
BRIGHT PLATING
BRIGHT COPPER PLATING FROM SULFURIC ACID ELECTROLYTES 67-01 M12-58708
PRACTICAL PROBLEMS IN BRIGHT AND HARD CHROMIUM PLATING 67-02 M12-59045
MODERN DEVELOPMENTS AND TRENDS IN ELECTROPLATING 67-02 M12-59970
DECORATIVE PLATING IN THE GERMAN MOTORCAR INDUSTRY 67-03 M12-65150
NEW PROCESS FOR ELECTROPLATING ON POLYPROPYLENE 67-03 M12-65327
IMMERSION TINNING OF BRASS BUTTONS 67-03 M12-65680
PRINCIPLES OF BRIGHTENING 67-04 M12-66349
IMPROVEMENT IN CORROSION RESISTANCE OF DECORATIVE NICKEL-CHROMIUM DEPOSITS 67-04 M18-66721
POROSITY IN SINGLE AND MULTI-LAYER ELECTRODEPOSITS, AND ITS RELATION TO THE BASIS METAL STATE 67-05 M12-68819
STUDIES ON THE BEHAVIOUR OF THIOUREA IN BRIGHT NICKEL PLATING 67-05 M12-68832
INSTITUTE OF METAL FINISHING TRANSACTIONS 67-05 M12-68833
BRIGHT ACID TINNING 67-06 M12-70657
THE BRIGHTNESS OF SURFACES AND OF ELECTRODEPOSITS AND ITS RELATION TO LEVELLING 67-06 M12-72193
THE CULMO HIGH SPEED BRIGHT ACID TIN PROCESS FOR RACK OR BARREL PLATING 67-07 M12-74164
COBALT --3---AMINO COMPLEXES AS BRIGHTENING ADDITIVES IN COBALT BATHS 67-08 M12-75682

A COMPARATIVE STUDY OF SOME MODERN BRIGHT NICKEL-CHROMIUM SYSTEMS 67-08 M12-76076
AN APPARATUS FOR HEAVY RHODIUM PLATING 67-09 M12-77000
LEVELLED BRIGHT NICKEL COATINGS 67-09 M12-77676
SOME PRODUCTION PLATING PROBLEMS AND HOW THEY WERE SOLVED. PT. 12 67-09 M12-78058
STUDY OF THE PHENOMENON OF LEVELING OF THE METAL SURFACE 67-10 M12-78858
TAKE ANOTHER LOOK AT BRIGHT ACID COPPER 67-10 M12-79311
STUDIES ON BRIGHT AND LEVELED COPPER DEPOSITS FROM CYANIDE BATHS. PT. 3. EFFECTS OF VARIOUS PLATING CONDITIONS AND ADDITIVES ON LEVELING ACTION OF COPPER CYANIDE BATHS 67-11 M12-80504
NEW GALVANIC BRIGHT CHROME BATHS BASED ON TETRACHROMATE 67-11 M12-81075
SCIENCE FOR ELECTROPLATERS. PT. 117 67-11 M18-80668

BRIGHT TEMPERING
ATMOSPHERES FOR MODERN HEAT TREATING--USING THEM IN PRODUCTION 67-06 M10-70719

BRIGHTENERS
COBALT --3-- AND CHROMIUM --3-- COMPLEX COMPOUNDS AS BRIGHTENERS IN CYANIDE ZINC BATHS 67-05 M12-68715
THE CONTROL AND DOSING OF GLOSS-FORMING ADDITIVES IN NI-COATING BATHS 67-08 M12-75681

BRIGHTENING
SEE ALSO BRIGHT ANODIZING
BRIGHT FINISHING
BRIGHT PLATING
BUFFING
CHEMICAL POLISHING
ELECTROPOLISHING
CHEMICAL AND ELECTROLYTIC BRIGHTENING 67-06 M12-72192

BRIGHTNESS
ELECTRODEPOSITION OF ALLOYS FROM THE SULFAMATE BATH --NICKEL-CHROMIUM AND COBALT-ZINC 67-04 M12-67428
PROPERTIES OF PLATED FILMS OF ELECTROLESS COBALT 67-05 M12-69001
EFFECTS OF VARIOUS ADDITIVES ON BRIGHTNESS OF COPPER DEPOSITS FROM CYANIDE BATHS 67-05 M12-69003

BRIGHTNESS, ALLOYING EFFECTS
USE OF COMPLEX COBALT --3---AMMINE COMPOUNDS AS LUSTRE ADDITIVES IN CADMIUM ELECTROPLATING BATHS 67-07 M12-73768

BRILLOUIN ZONE
LANDAU LEVELS AND MAGNETO-ABSORPTION IN INSB 67-03 M16-65033
COMBINED INTERPOLATION SCHEME FOR TRANSITION AND NOBLE METALS 67-05 M16-69802
STUDIES OF PSEUDO-BINARY LAVES-PHASE SYSTEMS CONTAINING LANTHANIDES. PT. 1. CONSTITUTION AND MAGNETIC PROPERTIES OF THE GDAL2-GDFE2, GDAL2-GDCO2 AND ERCO2-ERAL2 SYSTEMS 67-11 M13-80314
ELECTRONIC SPECTRUM OF CRYSTALLINE LITHIUM FLUORIDE 67-11 M15-81680
LATTICE PARAMETER ANOMALIES IN INDIUM-CADMIUM SOLID SOLUTIONS 67-11 M16-80187
SURFACE LATTICE DYNAMICS OF SILVER. PT. 2. LOW-ENERGY ELECTRON THERMAL DIFFUSE SCATTERING 67-11 M16-81481
BAND STRUCTURE OF DOPED BISMUTH USING THE SHUBNIKOV-DE HAAS EFFECT 67-11 M16-81482
ELECTRON ENERGY LEVELS IN CU3AU 67-11 M16-81483

BRILLOUIN ZONE, ALLOYING EFFECTS
ELECTRONIC STRUCTURE OF ALPHA BRASS 67-05 M16-69801

BRINE
SEE SALT WATER

BRINELL HARDNESS
SEE BRINELL HARDNESS NUMBER

BRINELL HARDNESS NUMBER
THE PROPERTIES AND STRUCTURE OF ALUMINUM-SILICON-ZINC ALLOYS 67-09 M17-76883

BRINELL HARDNESS TESTS
ACCURACY OF BRINELL IMPACT TESTS 67-10 M17-79176
ANALYTICAL INTERPRETATION OF BRINELL HARDNESS 67-12 M17-83245

BRIQUETS, DENSITY
CERTAIN REGULARITIES OF PRESSING TWO-COMPONENT CERMET MATERIALS 67-06 M09-70771

BRIQUETS, MECHANICAL PROPERTIES
MICROHARDNESS OF POROUS IRON IN A STRESSED STRAINED STATE 67-07 M17-73270
X-RAY ANALYSIS OF RESIDUAL STRESSES IN MOLDS 67-07 M17-74047
STUDY OF THERMAL STABILITY OF FINE COPPER ORE BRIQUETS PREPARED BY THE SILICATE METHOD 67-10 M02-79033

BRIQUETS, MELTING
USING HOT BRIQUETTED IRON CHIPS IN CUPOLA MELTING 67-07 M06-74049
PRODUCING IRON IN THE CUPOLA USING THERMOANTHRACITE 67-08 M04-75189

BRIQUETS, PHYSICAL PROPERTIES
THERMAL CONDUCTIVITY OF SWARF BRIQUETTES 67-07 M04-73052
EXPERIMENTAL STUDY OF PRESSURE DROP ACROSS FIXED BEDS OF ANTHRACITE BRIQUETS AND BLAST FURNACE INTERIOR, BUREAU OF MINES, WASHINGTON, D.C. MATERIALS 67-07 M04-74113

BRIQUETS, POWDER METALLURGY
INFLUENCE OF THE GEOMETRICAL FACTOR OF SINTERED PARTS ON THE MAGNITUDE OF THEIR ELASTIC AFTER-EFFECT 67-09 M09-76921
ACTIVATION OF THE SINTERING OF IRON POWDER BY NICKEL, COBALT, AND MANGANESE ADDITIONS. PT. 2 67-09 M09-76924

BRIQUETS, SINTERING
SINTERING OF METAL POWDER PARTS PRODUCED BY EXPLOSIVE COMPACTION 67-07 M09-73269

BRIQUETS, THERMAL PROPERTIES
SPONTANEOUS HEATING OF POROUS MATERIALS DURING OXIDATION 67-08 M09-75852

BRIQUETTING
INVESTIGATION OF PROCESSES OCCURRING IN HEATING OF IRON SHAVINGS 67-02 M02-59178
OXIDATION REDUCTION PROCESSES IN GRAY IRON CHIPS AT ELEVATED TEMPERATURES 67-04 M06-67940
TENDENCIES IN THE FORMATION OF LUMPS OF BURDEN MATERIALS FOR SHAFT FURNACES 67-07 M02-74104
PRODUCING STEEL IN ELECTRIC FURNACES USING STEEL CHIP BRIQUETS 67-08 M04-75187
MANUFACTURE OF BRIQUETTES FROM IRON AND STEEL POWDERS BY THE HYDRODYNAMIC COMPACTING METHOD 67-08 M09-74906
HOT BRIQUETTING--THE CHARGE IS ON 67-09 M02-76447
BRIQUETTING SWARF 67-09 M02-76855
BRIQUETTING-COMPACTING APPLICATIONS IN THE STEEL INDUSTRY 67-09 M04-76728
INVESTIGATION INTO THE PROCESSES TAKING PLACE DURING THE HEATING OF CAST IRON SWARF 67-10 M02-78887
BRIQUETTING OXIDIZED NICKEL ORES 67-10 M02-79034
A STUDY OF THE SEMIREDUCTION OF WABANA IRON ORE 67-10 M02-79563
PRODUCTION OF IRON ORE PELLETS AND BRIQUETS FOR THE BLAST FURNACE 67-11 M02-81455

BRITTLE
SEE BRITTLENESS

BRITTLE FRACTURE
SEE BRITTLENESS
FRACTURING

BRITTLENESS
SEE ALSO BLUE BRITTLENESS
TEMPER BRITTLENESS
AUTOMATIC SUBMERGED ARC WELDING OF 06N3 COLD-RESISTANT STEEL 67-01 M11-58203
MECHANISM OF THE BRITTLE FAILURE OF METALS WITH A BCC LATTICE 67-01 M17-57356
NOTCH IMPACT STRENGTH, FRACTURE APPEARANCE AND TRANSITION TEMPERATURE AFTER VARIOUS HEAT TREATMENTS 67-01 M17-57381
DETERMINATION OF THE VALUE OF IMPACT STRENGTH OF STEEL 67-01 M17-57658
NATURE OF BRITTLENESS OF MOLYBDENUM 67-01 M17-57663
RESISTANCE OF STEELS TO BRITTLE CRACK PROPAGATION DEFINED 67-01 M17-58064
INTERCRYSTALLINE FRACTURE OF H-80 STEEL DUE TO REVERSIBLE TEMPER BRITTLENESS 67-01 M17-58180
TEMPER EMBRITTLEMENT OF DUCTILE IRON 67-01 M17-58478
INVESTIGATION OF THE BRITTLE FRACTURE OF SINTERED MATERIALS 67-02 M09-61710
EFFECT OF DELTA-FERRITE ON IMPACT STRENGTH OF WELD

METAL IN JOINTS OF TRANSITION-CLASS STEELS 67-02 M11-59514
DISLOCATION MOVEMENT IN THE BRITTLE FRACTURE OF ALUMINA 67-02 M17-58948
THE DEFORMATION PROPERTIES AND ELECTRON MICROSCOPY STUDIES OF THE INTERMETALLIC COMPOUND NIAL 67-02 M17-58963
SELECTION OF STEEL FOR THE MANUFACTURE OF MINE SUPPORT ARCHES IN THE AS-RECEIVED CONDITION AND HEAT TREATED 67-02 M17-59558
BRITTLE FRACTURE OF STEELS WITH AN INCREASED YIELD STRENGTH 67-02 M17-59588
STRENGTH TESTS ON BRITTLE MATERIALS WITH PARTICULAR REFERENCE TO CAST IRONS 67-02 M17-59714
FORMATION OF GRIFFITH-CRACKS IN FERRITIC, LAMELLAR-PEARLITIC STEELS 67-02 M17-59717
PRACTICAL TESTING OF STEELS IN EQUIPMENT CONSTRUCTION 67-02 M17-60019
HOW IMPORTANT IS THE STRESS RATIO 67-02 M17-60232
THERMOMECHANICAL BEHAVIOR 67-02 M17-60705
THE MECHANICS OF BRITTLE FRACTURE 67-02 M17-60803
DETERMINATION OF THE COHESIVE STRENGTH OF LOW-CARBON STEEL --0.03 PER CENT C-- BY MEANS OF HIGH HYDROSTATIC PRESSURES 67-02 M17-60905
BRITTLE BEHAVIOR IN EXTRUDED BERYLLIUM TUBES 67-02 M17-60906
THE INITIATION OF BRITTLE FRACTURE IN NOTCHED TENSION SPECIMENS 67-02 M17-60908
BRITTLE CRACKS IN AN OIL TANK 67-02 M17-61060
BRITTLE FRACTURE OF AUSTENITIC STEEL WELDS AT HIGH TEMPERATURES 67-02 M17-61241
BRITTLE FRACTURE OF LOW-CARBON STEEL WELDS OF 4 TO 8 MM IN THICKNESS 67-02 M17-61243
THE BREAKING STRENGTH OF A HARD ALLOY UNDER IMPACT LOADS 67-02 M17-61636
EMBRITTLEMENT OF ABTYPE ORDERING ALLOYS WITH AN FCC LATTICE 67-02 M17-61933
BRITTLENESS OF 475 C. IRON-CHROMIUM ALLOYS 67-02 M17-62095
REPORTS ON BRITTLE FRACTURES 67-03 M11-65448
THE PLASTIC BEHAVIOR OF BERYLLIUM AND SOME OTHER METALS 67-03 M17-65236
DEFORMATION OF BERYLLIUM UNDER HYDROSTATIC PRESSURE TO 15 KILOBARS 67-03 M17-65280
FABRICATION AND MECHANICAL PROPERTIES OF SEMIFINISHED BERYLLIUM-CALCIUM PRODUCTS FOR CO2-COOLED REACTORS. PRODUCTION, TRANSFORMATION AND PROPERTIES OF EXTRUDED CAST BERYLLIUM TUBING 67-03 M17-65287
BRITTLE FRACTURE OF FULL SCALE STRUCTURES DAMAGED BY FATIGUE 67-03 M17-65309
FRACTURE OF SILICON AND GERMANIUM INDUCED BY PULSED ELECTRON IRRADIATION 67-03 M17-65744
EFFECT OF THE CONDITIONS OF MELTING AND ANNEALING ON THE TRANSITION OF METALLIC COMPOUNDS FROM BRITTLE STATE INTO DUCTILE 67-03 M17-65789
ACTION OF MOLTEN ZN ON NI STEELS 67-04 M14-66340
CONTRIBUTION TO THE STUDY OF THE TOUGHNESS TEST AND BRITTLE FRACTURE 67-04 M17-66041
A MODIFIED DOUBLE PILE-UP TREATMENT OF THE INFLUENCE OF GRAIN SIZE AND DISPERSED PARTICLES ON BRITTLE FRACTURE 67-04 M17-66066
THE EFFECT OF PRE-STRAIN AND STRAIN-AGEING ON THE CLEAVAGE FRACTURE OF A HIGH-MANGANESE STEEL 67-04 M17-66068
RESISTANCE TO HOT CRACKING OF STEEL REFINED BY MEANS OF SYNTHETIC SLAGS 67-04 M17-66215
INFLUENCE OF THE LIQUID SLAG REFINING ON TOUGHNESS OF LOW ALLOY STRUCTURAL STEEL 67-04 M17-66360
BRITTLENESS OF FE-25 PER CENT CR-5 PER CENT AL CAST ALLOY 67-04 M17-66380
A QUANTITATIVE EVALUATION OF THE SIZE EFFECT IN THE BRITTLE FRACTURE OF WELDED STRUCTURES 67-04 M17-66431
INFLUENCE OF ANNEALING TEMPERATURE ON STRUCTURE AND PROPERTIES OF CAST MOLYBDENUM 67-04 M17-66456
THE SENSITIVITY OF WELDED JOINTS IN AUSTENITIC STEELS TO BRITTLE FRACTURE AT HIGH TEMPERATURES 67-04 M17-66513
BRITTLE FRACTURE IN WELDED JOINTS IN 4-8 MM THICK MILD STEEL 67-04 M17-66516
STRENGTH OF WELDED JOINTS IN STRUCTURES MADE OF HIGH-STRENGTH STEEL 67-04 M17-66567
HIGH-STRENGTH WELDABLE STRUCTURAL STEELS AND THEIR PROPERTIES 67-04 M17-66906
BRITTLE FRACTURE IN ALPHA-TITANIUM 67-04 M17-66938
EFFECT OF NOTCH ACUITY ON BRITTLE FRACTURE BEHAVIOUR OF MILD STEEL AT 77 K 67-04 M17-66988
ELECTRON MICROSCOPIC AND X-RAY DIFFRACTION ANALYSIS OF 1KH18N9T STEEL FRACTURES 67-04 M17-67373
INFLUENCE OF FATIGUE ON BRITTLE FRACTURE IN MILD STEEL 67-04 M17-67415
BOUNDARY OF BRITTLENESS IN AUSTENITIC WELDS OF HEAT RESISTANT STEELS WITH 25 PER CENT CHROMIUM 67-04 M17-67444
IMPROVING THE COLD SHORTNESS OF STEEL CASTINGS 67-04 M17-67509
INFLUENCE OF RARE-EARTH METALS OF THE CERIUM SUBGROUP ON THE EMBRITTLEMENT THRESHOLD OF CARBON STEEL 67-04 M17-67956
INFLUENCE OF PHASE TRANSFORMATIONS ON THE DUCTILITY OF AUSTENITIC-FERRITIC STEELS 67-04 M17-67980
BRITTLE FRACTURE OF STEEL IN ACID MEDIUM 67-04 M18-67839
INFLUENCE OF THE STRUCTURE ON THE DUCTILITY AND TYPE OF RUPTURE OF KHN70VMTYU AND EI826 ALLOYS 67-05 M17-68354
EFFECT OF DEGREE OF DEOXIDATION AND THICKNESS OF ROLLED PRODUCT ON THE MECHANICAL PROPERTIES OF LOW-CARBON STEEL AND BRITTLE FRACTURE IN ELEMENTS OF METAL STRUCTURES 67-05 M17-68555
DISCUSSION ON METHODS OF ESTIMATING THE TENDENCY OF METALS AND ALLOYS TOWARD BRITTLE FAILURE. METHOD OF ESTIMATING THE CRITICAL LENGTH OF A CRACK IN A SINGLE LOADING 67-05 M17-68740
EVALUATING COLD SHORTNESS FROM THE FORM OF THE FRACTURE 67-05 M17-68741
DETERMINING THE COLD-SHORTNESS THRESHOLD OF STEEL BY A MICROFRACTOGRAPHIC METHOD 67-05 M17-68742
ON THE EVALUATION OF THE EFFECT OF ATMOSPHERIC CORROSION ON THE TENDENCY OF STEELS TO BRITTLE FRACTURE 67-05 M17-68743
EFFECT OF STACKING FAULT ENERGY ON THE COLD SHORTNESS OF METALS WITH A B. C. C. LATTICE 67-05 M17-68849
ON THE BRITTLENESS OF METALLIC COMPOUNDS 67-05 M17-68970
THE POSSIBILITY OF BRITTLE FRACTURE OF ALUMINUM ALLOY WELDED JOINTS 67-05 M17-69408
ON THE EVALUATION OF MECHANICAL PROPERTIES AND THE TYPE OF FRACTURE OF ANISOTROPIC METALS 67-05 M17-69633
PREDOMINANT CASES AND REASONS OF BRITTLE FAILURE 67-06 M11-71846
ANOMALOUS TRANSMISSION IN STRAINED DUCTILE AND BRITTLE CRYSTALS BY THE DIVERGENT X-RAY BEAM METHOD 67-06 M14-71283
SOME INTERESTING CASES OF FAILURES OF METALS IN SERVICE 67-06 M17-70046
THE NATURE OF THE TEMPERATURE ZONE OF BRITTLENESS IN HEAT RESISTANT ALLOYS OF THE COPPER-NICKEL-BERYLLIUM SYSTEM 67-06 M17-70172
BRITTLE FRACTURES IN SERVICE 67-06 M17-70561
THE EFFECT OF TRIAXIAL STRESS SYSTEMS ON BRITTLE FRACTURE AND ON THE BRITTLE-DUCTILE TRANSITION 67-06 M17-70631
THE INTERACTION BETWEEN AN ELASTIC CRACK AND A SLIP BAND WITH SPECIAL REFERENCE TO BRITTLE FRACTURE STRENGTH OF METALS 67-06 M17-70704
FRACTURE PROCESSES IN METALS 67-06 M17-70711
EFFECTS OF THERMAL STRAINING DURING WELDING ON THE FRACTURE TOUGHNESS OF A MILD STEEL 67-06 M17-70860
THE FRACTURE OF BRITTLE MATERIALS 67-06 M17-70896
INFLUENCE OF SIZE AND SHAPE ON THE TENSILE STRENGTH OF BRITTLE MATERIALS 67-06 M17-71049
DUCTILE AND BRITTLE CRYSTALS 67-06 M17-71285
NOTCH BRITTLENESS IN MILD STEEL AT -196 C 67-06 M17-71331
BRITTLE FRACTURE BEHAVIOR OF QUENCHED AND TEMPERED STRUCTURAL STEELS 67-06 M17-71510
MECHANICAL PROPERTIES OF SOME TANTALUM ALLOYS 67-06 M17-71528
BRITTLENESS AND MICROSTRUCTURE OF SOME AL-MG-ZN-ALLOYS 67-06 M17-71659
THE DEEP NOTCH TEST AND BRITTLE FRACTURE INITIATION 67-06 M17-71688
FAILURE OF A 3000-HP MINE FAN 67-06 M17-71888

RELATIONSHIP BETWEEN MICROHARDNESS AND MICROBRITTLENESS OF REFRACTORY COMPOUNDS AND THEIR ELECTRON STRUCTURE 67-07 M09-72513
EFFECT OF DEGREE OF DEOXIDATION AND THICKNESS OF ROLLED PRODUCT ON MECHANICAL PROPERTIES OF LOW CARBON STEEL AND THE OCCURRENCE OF BRITTLE FRACTURE IN METALLIC STRUCTURES 67-07 M17-72466
THE INFLUENCE OF TORSIONAL PRESTRAINING ON NOTCH-BRITTLE FRACTURE 67-07 M17-72625
THE PART PLAYED BY SIZE EFFECT DURING THE BRITTLE FRACTURE OF MEMBERS OF WELDED STRUCTURES 67-07 M17-72690
THE USE OF MATERIALS PROPERTIES BY THE REACTOR VESSEL DESIGNER 67-07 M17-73397
THE IMPORTANT MATERIALS PARAMETERS AFFECTING THE PERFORMANCE OF NUCLEAR REACTOR PRESSURE VESSELS 67-07 M17-73399
THE EFFECTIVENESS OF WELDED JOINTS IN METAL STRUCTURES MADE OF HIGH TENSILE STEEL 67-07 M17-73424
SOME CHARACTERISTICS OF BRITTLE FAILURE OF THE TWO-PHASE STEELS DURING HOT PLASTIC DEFORMATION 67-07 M17-74194
INFLUENCE OF NONUNIFORMITY OF MECHANICAL PROPERTIES OF AUSTENITIC STAINLESS STEEL WELDS ON LOCAL FAILURE 67-08 M11-74369
CORRELATION OF LOCAL ORDER WITH MECHANICAL PROPERTIES 67-08 M14-75341
STRUCTURAL CHANGES IN CHROMIUM DURING STRAIN 67-08 M14-75881
INFLUENCE OF THE CARBIDE PHASE ON THE PROPERTIES OF TRANSFORMER STEEL 67-08' M15-74988
INFLUENCE OF PLASTIC DEFORMATION IN HEAT AFFECTED ZONE ON COLD SHORTNESS OF WELDED JOINTS 67-08 M17-74368
COMPRESSION AND COLD ROLLING OF DISPERSION STRENGTHENED ALUMINIUM ALLOY --S.A.P.-- 67-08 M17-74410
BRITTLENESS IN COPPER AND COPPER ALLOYS WITH PARTICULAR REFERENCE TO HYDROGEN EMBRITTLEMENT 67-08 M17-74505
BRITTLE FAILURE OF A STEEL SCAFFOLD TUBE 67-08 M17-74506
GRAIN SIZE AND THE TRANSITION TEMPERATURE OF STRUCTURAL STEELS 67-08 M17-74940
COLD BRITTLENESS OF LOW-CARBON STEEL TREATED FOR HIGH STRENGTH 67-08 M17-74977
SOME MECHANISMS OF BRITTLE FRACTURE 67-08 M17-75402
FRACTURES IN MOLYBDENUM ALLOYS EXAMINED UNDER THE ELECTRON MICROSCOPE 67-08 M17-75459
HAZARDOUS METALLURGICAL NOTCHES 67-08 M17-75526
CHARACTER OF FRACTURE OF SINTERED MATERIALS 67-08 M17-75855
THE EFFECT OF INCLUSIONS ON THE BRITTLE FRACTURE OF HOT ROLLED STEEL 67-08 M17-76148
DUCTILE YIELDING AND BRITTLE FRACTURE AT THE ENDS OF PARALLEL CRACKS IN A STRETCHED ORTHOTROPIC SHEET 67-08 M17-76157
INVESTIGATION OF DUCTILE FRACTURE BY MEANS OF AN IRON-ALUMINA COMPOSITE PRODUCED BY SINTERING 67-08 M17-76222
THE DEFORMATION AND FRACTURE OF TWO-PHASE MATERIALS 67-08 M17-76258
EFFECT OF WELDING CONDITIONS AND HEAT TREATMENT ON THE BRITTLENESS OF WELDED JOINTS IN VT15 TITANIUM ALLOY 67-09 M11-78090
MICROSTRUCTURAL DAMAGE ADJACENT TO A BRITTLE FRACTURE 67-09 M13-76651
COCKENZIE--BRITTLE FRACTURE FAILURE 67-09 M17-76514
THE JOINT EFFECTS OF RADIATION AND BOUNDARY-ACTIVE COATING ON THE MECHANICAL PROPERTIES OF SINGLE CRYSTALS OF METALS 67-09 M17-76720
BRITTLE CRACKS IN TYPE ST3S MILD STEEL STRUCTURES 67-09 M17-76896
FRACTURE OF WELDS IN PARTS MADE OF STEEL WITH A HIGH YIELD STRENGTH 67-09 M17-76899
DELAYED FAILURE OF CADMIUM PLATED STEELS AT ELEVATED TEMPERATURES 67-09 M17-77261
INFLUENCE OF THE STRUCTURE ON SUSCEPTIBILITY TO BRITTLE FRACTURE OF 40KHNMA STEEL 67-09 M17-77407
INTRINSIC BRITTLE STRENGTH OF MAGNESIUM OXIDE BICRYSTALS 67-09 M17-77426
BRITTLE STRENGTH OF ELEMENTS OF THICK-WALLED VESSELS OF 22K STEEL AT AXIAL TENSIONS 67-09 M17-77602
IMPROVED QUALITY OF ALUMINUM FOR SEMIFINISHED PRODUCTS 67-10 M03-79944
NEW WELDING METALLURGY RESEARCH IN THE INSTITUTE FOR WELDING TECHNOLOGY 67-10 M11-78713
MARTENSITE INCLUSIONS IN STEEL WIRES DEVELOPED DURING DRAWING OR THROUGH THE WRONG USE OF ROPES. PT. 2 67-10 M14-79425
BRITTLE FRACTURE IN WELDED JOINTS IN ALUMINIUM ALLOYS 67-10 M17-78512
FREE-MACHINING RESULFURIZED CARBON STEELS-- INVESTIGATION OF MACHINABILITY AND BRITTLENESS OF DRAWN PRODUCTS 67-10 M17-78675
CRACKING OF A STRONG ALUMINIUM ALLOY USED IN AIRCRAFT CONSTRUCTION 67-10 M17-78753
EFFECTS OF ADDING SMALL AMOUNTS OF ZIRCONIUM TO HIGH-TENSILE REINFORCEMENT STEEL ON ITS PROPERTIES 67-10 M17-78930
CERTAIN FEATURES OF VARIATION IN THE PROPERTIES AND STRUCTURE OF KH21N5T AND OKH21N6M2T TWO-PHASE STEELS AFTER THEY ARE TEMPERED 67-10 M17-78944
THE CLASSIFICATION OF STEELS ACCORDING TO TRANSITION TEMPERATURES AS DETERMINED BY NOTCHED BAR IMPACT TESTS 67-10 M17-79064
THERMOMECHANICAL TREATMENT OF 20GMR STEEL DURING CONTINUOUS COOLING 67-10 M17-79212
A NOTE ON THE THIN EXTENSION OF PLASTIC ZONE IN THE DIRECTION OF THE PATH OF THE MOVING BRITTLE CRACK 67-10 M17-79600
RATIO OF THE CRACK FORMATION AND PROPAGATION ENERGIES DURING IMPACT TESTS 67-10 M17-79742
A STATISTICAL THEORY OF BRITTLE FRACTURE 67-10 M17-80029
STUDY OF CAUSES OF BRITTLENESS AND THE SELECTION OF PARAMETERS FOR REJECTING KH18MTF STEEL 67-11 M08-80865
CORRELATION OF MICROHARDNESS AND MICROBRITTLENESS OF REFRACTORY COMPOUNDS WITH THEIR ELECTRIC STRUCTURE 67-11 M09-80899
ORDERING IN DILUTE SOLID SOLUTIONS OF ALUMINUM IN NICKEL 67-11 M14-81355
FRACTURE OF POLYCRYSTALS 67-11 M17-80141
SOME ASPECTS OF THE FRACTURE OF METALLIC COMPOSITES 67-11 M17-80142
THE MICROSTRUCTURAL ASPECTS OF TENSILE FRACTURE 67-11 M17-80144
HIGH-TEMPERATURE PROPERTIES OF STEELS--AN INTRODUCTION 67-11 M17-80251
THE BRITTLE FRACTURE RESISTANCE OF LOW CARBON STEELS IN RELATION TO PRELIMINARY LOAD CYCLING 67-11 M17-80645
THE STRESS CONCENTRATION SUSCEPTIBILITY OF LOW CARBON STEEL WELDED JOINTS DURING LOAD CYCLING 67-11 M17-80646
APPLICATION OF SPECIAL ALLOY CAST IRON CONTAINING AL IN ITALY 67-11 M17-80802
WIDESPREAD CASES OF BRITTLE FRACTURE AND THEIR CAUSES 67-11 M17-80878
THE EFFECT OF NICKEL ON THE LOW-TEMPERATURE BRITTLENESS OF IRON AND STEELS 67-11 M17-80948
RESISTANCE OF STRUCTURAL STEEL TO PROPAGATION OF BRITTLE CRACKS 67-11 M17-80959
EFFECT OF REFINING WITH LIQUID SYNTHETIC SLAG ON THE DUCTILE CHARACTERISTICS OF LOW-ALLOY STRUCTURAL STEELS 67-11 M17-80962
THE ROLE OF CROSS-SLIP IN BRITTLE FRACTURE AND FATIGUE 67-11 M17-81034
EFFECT OF ANISOTROPY ON THE PROPERTIES AND BEHAVIOR OF METALS WITH FACE-CENTERED CUBIC LATTICE 67-11 M17-81164
DISLOCATION MOBILITY AND FRACTURE RESISTANCE OF IRON 67-11 M17-81165
HOW DANGEROUS ARE WELD DEFECTS 67-11 M17-81197
FRACTURE OF GERMANIUM AT ROOM TEMPERATURE 67-11 M17-81264
ATTEMPTS TO MINIMIZE HOT EMBRITTLEMENT IN CR-W HOT FORMING TOOL STEELS 67-11 M17-81380
DETERMINATION OF BRITTLE FRACTURE BEHAVIOR OF A STEEL BY EVALUATION OF FORCE-FLEXION CURVES OBTAINED FROM NOTCH BEND TESTS 67-11 M17-81381
THE NATURE OF BRITTLE FRACTURE OF IRON AND STEEL IN ACID MEDIA 67-11 M18-81292
BOILER STEEL PROPERTY REQUIREMENTS 67-11 M20-80285
EFFECT OF NITROGEN AND ALUMINUM ON DUCTILITY AND DRAWABILITY OF HIGH CARBON STEEL, USED FOR LARGE

BRITTLENESS

DIAMETER WIRES 67-12 M07-82386
INFLUENCE OF THE MECHANICAL HETEROGENEITY OF WELDED JOINTS IN AUSTENITIC STEELS ON THEIR SUSCEPTIBILITY TO LOCAL FAILURE 67-12 M11-82242
PREVENTING BRITTLE FRACTURES OF WELDED STRUCTURES IN ROLLING STOCK 67-12 M11-82315
WELDING OF MACHINE AND MACHINE PARTS 67-12 M11-82506
A RATIONAL APPROACH TO STANDARDS FOR WELDED CONSTRUCTION. PT. 3 67-12 M11-82660
REPORTS ON BRITTLE FRACTURES 67-12 M11-83214
MECHANICAL PHENOMENA OF BRITTLE FRACTURE 67-12 M17-81914
EXAMINATION OF BRITTLE FRACTURE BEHAVIOR BY THE DROP-WEIGHT TEST 67-12 M17-81936
SOME LAWS FOR BRITTLE FRACTURE 67-12 M17-82023
INFLUENCE OF PLASTIC STRAIN IN THE HEAT-AFFECTED ZONE ON THE LOW-TEMPERATURE EMBRITTLEMENT OF WELDED JOINTS 67-12 M17-82241
QUENCHED AND TEMPERED GRADE 18G2A STEEL FOR WELDED STRUCTURES 67-12 M17-82496
THE DURABILITY OF THE MELTING VESSEL IN THE ZN-DESILVERIZATION OF PB 67-12 M17-82830
LOW CYCLE FATIGUE STRENGTH OF SHIP STRUCTURAL STEELS 67-12 M17-82923
CRACKING OF A STRONG ALUMINIUM ALLOY USED IN AIRCRAFT CONSTRUCTION 67-12 M17-83122
INFLUENCE OF SURFACE CONDITION ON THE MECHANICAL PROPERTIES OF POLYCRYSTALLINE NIOBIUM 67-12 M17-83201
BRITTLE FRACTURE ALONG THE GRAIN BOUNDARIES IN MOLYBDENUM 67-12 M17-83311
A COLD RESISTANT STRUCTURAL STEEL 67-12 M17-83388
EFFECTS OF RARE EARTH METALS ON THE NEEL TEMPERATURE AND DUCTILITY OF RECRYSTALLIZED CHROMIUM 67-12 M17-83463

BRITTLENESS, ALLOYING EFFECTS
INVESTIGATION OF THE EFFECT OF COMPLEX ALLOYING ON THE PHYSICAL AND MECHANICAL PROPERTIES OF NIOBIUM 67-02 M17-59873
INFLUENCE OF INOCULANTS ON COLD SHORTNESS OF LOW ALLOY STEELS 67-04 M17-66362
EFFECT OF COBALT ON BRITTLE FRACTURE SUSCEPTIBILITY OF IRON 67-04 M17-66489
EFFECT OF SMALL AMOUNTS OF ADDITIONAL ELEMENTS ON THE COLD BRITTLENESS OF CARBON AND LOW-ALLOY STEELS 67-11 M17-80964

BRITTLENESS, COMPOSITION EFFECTS
NITROGEN IN NONALLOYED FERRITIC METAL 67-04 M17-66568
NITROGEN IN UNALLOYED FERRITIC METAL 67-07 M17-73425
RELATION BETWEEN COLD BRITTLENESS AND THE BEHAVIOR OF CARBON IN IRON IN THE PRESENCE OF MANGANESE 67-11 M17-81417

BRITTLENESS, HEATING EFFECTS
SELECTING AN ANNEALING TEMPERATURE FOR WELDED BRASS CONSTRUCTIONS 67-04 M17-66433
THE EFFECT OF DELTA-FERRITE ON THE IMPACT STRENGTH OF THE WELD METAL IN JOINTS IN TRANSITIONAL STEELS 67-04 M17-66463
SELECTING THE STRESS RELIEVING TEMPERATURE FOR BRASS STRUCTURES 67-07 M17-72692
RECENT ADVANCES IN HEAT TREATMENT METHODS 67-08 M10-74748
EFFECTS OF HEAT TREATMENT ON THE COLD BRITTLENESS OF REINFORCEMENT STEEL 67-10 M17-78376
EFFECT OF THE ANNEALING TEMPERATURE ON THE STRUCTURE AND PROPERTIES OF CAST MOLYBDENUM 67-11 M17-80997

BRITTLENESS, IMPURITY EFFECTS
A STUDY OF THE TOUGHNESS DIFFERENCES BETWEEN ALUMINUM-KILLED AND SEMIKILLED STEELS 67-01 M17-58461
MICROANALYZER STUDY OF INCLUSIONS IN BERYLLIUM AND THEIR RELATION TO THE PROPERTIES OF SEMIFINISHED BERYLLIUM PRODUCTS 67-03 M17-65286

BRITTLENESS, RADIATION EFFECTS
CORRELATION OF RADIATION DAMAGE TO STEEL WITH NEUTRON SPECTRUM 67-12 M16-82699

BRITTLENESS, SIZE EFFECTS
INFLUENCE OF SPECIMEN SIZE ON TENSILE CHARACTERISTICS AND ON TENDENCY TO BRITTLE FRACTURE OF STEEL 67-08 M17-75696

BRITTLENESS, STRESS EFFECTS
EFFECT OF THE DEFORMATION SPEED ON THE DUCTILE-TO-BRITTLE TRANSITION BEHAVIORS OF A MILD STEEL. STUDY ON THE DEPENDENCE OF MECHANICAL PROPERTIES OF METALS UPON THE STRAIN RATE. PT. 2 67-02 M17-59992
ELEMENTARY CONSIDERATIONS FOR STRUCTURAL USE 67-02 M17-60709
STUDY OF DEFORMATION AND CRACKING IN THIN FOILS OF CHROMIUM 67-04 M17-66490
FORMATION OF BRITTLE CRACKS IN STEEL DURING TWINNING 67-04 M17-66491
THE EFFECT OF PRE-STRAIN AND STRAIN-AGEING ON THE CLEAVAGE FRACTURE OF A LOW CARBON STEEL 67-06 M17-70433
STUDIES ON THE MECHANICAL PROPERTIES OF HOT ROLLED BERYLLIUM AT ELEVATED TEMPERATURES 67-07 M17-72983
THE BRITTLENESS OF METALLIC MATERIALS UNDER TENSION STRESSES 67-07 M17-73074

BRITTLENESS, TEMPERATURE EFFECTS
BRITTLE FRACTURE TESTS ON STEEL PLATE TO BS. 968 IN 1962 67-08 M17-75362
INFLUENCE OF THE COMPOSITION ON THE COLD BRITTLENESS OF CAST MEDIUM-CARBON STEEL 67-08 M17-76017
LOW-TEMPERATURE --295 TO 4K.-- MECHANICAL PROPERTIES OF SELECTED COPPER ALLOYS 67-08 M17-76146
THE MECHANICAL PROPERTIES OF THREE GAMMA BRASS TYPE INTERMEDIATE PHASES--GAMMA CUZN, GAMMA AGZN, AND GAMMA CUCD 67-12 M17-82864
LOCAL AND UNIFORM DUCTILITY, STRENGTH AND IMPACT STRENGTH OF KH18N10T STAINLESS STEEL AT HIGH AND LOW TEMPERATURE 67-12 M17-83530

BRITTLENESS, THERMAL PROPERTIES
POSSIBILITIES AND ASPECTS OF THE EVALUATION OF TOUGHNESS TESTS WITH RESPECT TO BRITTLE FRACTURE SAFETY 67-01 M17-58795

BRITTLENESS, WELDING EFFECTS
INVESTIGATION OF THE STRUCTURE OF TYPE V 96 ALLOY WELDED JOINTS 67-04 M13-67151
THE TENDENCY TO BRITTLE FRACTURE OF COLD-WORKED STEEL AGED BY THE HEAT FROM WELDING 67-09 M17-77816

BROACHING
APPLICATIONS AND LIMITS OF THE BROACHING TECHNIQUE AT HIGH-CUTTING RATES 67-02 M08-59618
INVESTIGATIONS ON THE CUTTING POWER AND SURFACE QUALITY IN THE INTERNAL BROACHING OF STEEL 67-06 M08-71804
APPLICATIONS AND LIMITS OF BROACHING AT HIGH CUTTING SPEEDS 67-08 M08-74755
PRODUCTION BROACHING OF EXTERNAL SURFACES 67-10 M08-79513

BROACHING MACHINES
CARBIDE TOOL GRINDING AT A MODERN TRACTOR PLANT 67-07 M08-74167

BROMINATION
A KINETIC STUDY OF THE HETEROGENEOUS REACTIONS OF METALLIC SODIUM WITH CHLORINE AND BROMINE 67-05 M14-68616

BROMINE, INTERMETALLICS
STRUCTURE OF THE BAND SPECTRUM OF THE CUBR MOLECULE. PT. 1. ROTATIONAL STRUCTURE OF THE C SYSTEM FO CU63BR81 67-11 M16-80332

BRONZE PLATING
SEE ALLOY PLATING
COPPER PLATING
TIN PLATING

BRONZES
SEE TIN BRONZES

BROWN COAL
SEE LIGNITE

BRUSH PLATING
OBTAINING A SURFACE LAYER SIMILAR TO SAP 67-04 M12-66878
BRUSH PLATING TECHNIQUES 67-12 M12-82707

BRUSHES
CARBON AND GRAPHITE MATERIALS FOR SEALS, BEARINGS, AND BRUSHES 67-09 M20-77136

BRUSHING
SEE WIRE BRUSHING

BUBBLE CHAMBERS
A REMARKABLE ASSEMBLY--A BUBBLE CHAMBER ENVELOPE OF C. E. N. DESACLAY 67-06 M11-70576

BUBBLES
GAS BUBBLES IN THERMOCHEMICALLY DEPOSITED TUNGSTEN 67-09 M14-77477

BUBBLES, DIFFUSION
SURFACE DIFFUSION AND MOVEMENT OF BUBBLES OF INERT GASES IN COPPER 67-02 M14-58929

BUBBLES, RADIATION EFFECTS
SWEEPING OF BUBBLES BY GRAIN BOUNDARIES IN IRRADIATED UC 67-09 M14-77478
MIGRATION OF GAS BUBBLES IN IRRADIATED URANIUM DIOXIDE 67-10 M16-79593
BUBBLES, STRESS EFFECTS
SURFACE BUBBLE FORMATION DURING FATIGUE OF AN ALUMINUM ALLOY 67-07 M17-73134
BUCKET CONVEYORS, WELDING
BUILDUP WITH A MELTED FILLER METAL 67-04 M12-66572
BUILDING UP BY POURING MOLTEN FILLER METAL ONTO THE WORK 67-07 M12-73429
BUCKLING
THE BUCKLING BEHAVIOR OF UNIFORMLY HEATED THIN CIRCULAR CYLINDRICAL SHELLS 67-01 M17-57542
WARPAGE OF THIN WALLED PARTS DURING RELAXATION OF RESIDUAL STRESSES 67-04 M10-66358
BUCKLING STRENGTH OF CURVED BERYLLIUM PANELS IN COMPRESSION 67-04 M17-67890
THE PHENOMENON OF LOCAL BUCKLING AND ITS CONSEQUENCES 67-05 M17-68930
EXPERIMENTAL BUCKLING OF INTERNAL INTEGRAL RING-STIFFENED CYLINDERS 67-06 M17-71152
INELASTIC LATERAL STABILITY OF OPEN-SECTION STEEL BEAMS UNDER NONUNIFORM BENDING MOMENT 67-08 M17-75940
BUCKLING, STRESS EFFECTS
BELGIUMS PART IN THE EXPERIMENTAL RESEARCH ON THE BUCKLING OF AXIALLY LOADED MILD-STEEL MEMBERS CONDUCTED BY THE CONVENTION EUROPEENNE DE LA CONSTRUCTION METALLIQUE 67-02 M17-60248
BUCKLING, WELDING EFFECTS
EFFECT OF WELDING CONDITIONS ON THE STRENGTH OF WELDED AL ALLOY MEMBERS 67-05 M11-68861
BUFFING
THE BUFFING OF ZINC DIE CASTINGS WITH LIQUID COMPOUND 67-04 M12-68112
MECHANICAL FINISHING OF ALUMINUM SURFACES 67-06 M12-71381
ABRASIVE SURFACE FINISHING 67-08 M12-74524
AUTOMATIC LINES FOR POLISHING AND BUFFING OF AUTOMOTIVE BUMPERS 67-08 M12-74525
GLOSS-BUFFING EFFECTS OF GREASE-BASE BUFFING COMPOUNDS ON 18 CR-8 NI STAINLESS STEEL 67-08 M12-74924
BUILDING MATERIALS
SEE CONSTRUCTION MATERIALS
BULGE FORMING
SEE BULGING
BULGING
CALCULATION OF SPRINGBACK IN SHEET METAL DURING FLANGING USING RUBBER TO APPLY THE PRESSURE 67-02 M08-59884
INCREASING THE DIAMETER OF COMPOSITE TUBING USED IN THE FIELD OF NUCLEAR ENERGY 67-02 M08-62037
FLAT MEMBRANE BOTTOMS 67-02 M20-60050
A LOOK AT SOME UNCONVENTIONAL NEW METAL-FORMING METHODS 67-03 M07-65400
WARPAGE OF THIN WALLED PARTS DURING RELAXATION OF RESIDUAL STRESSES 67-04 M10-66358
TESTING SOME STAINLESS STEELS FOR HYDROSTATIC BULGING 67-05 M17-69441
TESTING MATERIAL IN BIAXIAL TENSION 67-05 M17-69739
A METHOD OF STUDYING BULGING FORCES IN SHEET STAMPING 67-06 M08-70282
THE STRESSES IN A BULGING TUBE SUBJECTED TO INTERNAL PRESSURE AND AN ADDITIONAL AXIAL FORCE 67-06 M17-70263
THE EFFECT OF VARYING STRAIN RATIO ON THE HYDRAULIC BULGING BEHAVIOUR OF ALUMINIUM SHEET 67-09 M17-77508
BULK DENSITY
CHARACTERISTICS OF REFRACTORY INSULATING MATERIALS 67-01 M15-58539
ELECTRICAL RESISTIVITY OF CARBON COMPOSITE SINTERED MATERIALS. PT. 4. TEMPERATURE DEPENDENCE OF RESISTIVITY AND CARBON BULK DENSITY 67-02 M15-60162
PRINCIPLES OF THE PRODUCTION OF REFRACTORY LIGHT-WEIGHT BRICKS BY THE FOAMING METHOD 67-07 M04-73206
HEAT TRANSFER PROPERTIES OF LOOSE-FIBER MATERIALS IN VACUUM 67-10 M05-79251
DEFORMATION THEORY OF HOT PRESSING 67-11 M17-81090
BULK MODULUS
LOW-TEMPERATURE ELASTIC PROPERTIES OF ZRC AND TIC 67-01 M17-57116
ELASTIC CONSTANTS OF HEXAGONAL BEO, ZNS AND CDSE 67-08 M17-75130
BULK MODULUS, TEMPERATURE EFFECTS
ELASTIC CONSTANTS OF MAGNESIUM THORIUM ALLOY 67-06 M17-71637
ON THE TEMPERATURE DEPENDENCE OF THE BULK MODULUS AND THE ANDERSON-GRUNEISEN PARAMETER DELTA OF OXIDE COMPOUNDS 67-07 M17-72842
BULKHEADS
COMPOSITE BULKHEAD FABRICATION DEVELOPMENT 67-06 M11-70006
BULL GEARS
SEE RING GEARS
BULLETS
SEE PROJECTILES
BUMPERS, SURFACE FINISHING
AUTOMATIC LINES FOR POLISHING AND BUFFING OF AUTOMOTIVE BUMPERS 67-08 M12-74525
BURDENING
SEE BLAST FURNACE PRACTICE
BURN UP
SEE FUEL CONSUMPTION
NUCLEAR FUELS
BURNERS
SEE ALSO GAS BURNERS
OIL BURNERS
PROGRESS OF GAS-OXYGEN ROOF BURNERS AT KEYSTONE STEEL AND WIRE COMPANY 67-03 M04-65514
THE MELTING OF STEEL WITH OIL/OXYGEN BURNERS IN A 10-TON CIRCULAR FURNACE 67-09 M04-77498
BURNING
SEE COMBUSTION
BURNING RATE
THE USE OF OXYGEN ARCH BURNERS IN OPENHEARTH FURNACES 67-07 M04-73224
BURNISHING
SEE ALSO DIAMOND BURNISHING
ROLL BURNISHING
ROLLER BURNISHING
MECHANIZING RING GEAR CORRECTION 67-07 M08-73446
INFLUENCE OF TREATMENT WITH ROLLERS ON THE MECHANICAL AND TECHNOLOGICAL PROPERTIES OF CASE-HARDENED STEELS 67-08 M17-76002
THE FORMATION OF THE MICROPROFILE ON BURNISHED WORKPIECES 67-10 M08-79680
IMPACT BURNISHING--TOOL DESIGN AND APPLICATIONS 67-11 M08-81695
BURNOUT
SEE FUEL CONSUMPTION
BURSTING
THE FRACTURE BEHAVIOR OF MATERIALS AND SAFETY IN STRUCTURES 67-01 M17-58793
RUPTURE OF BRITTLE MATERIALS 67-02 M17-58811
SOME RELATIONSHIPS OF SOFTENING IN METALS WITH TEMPERATURE 67-11 M17-81420
BURSTING STRENGTH
A STUDY OF THE FRACTURE RESISTANCE OF STEEL PRESSURE VESSELS BY MEANS OF CHARPY, DROP WEIGHT, AND FULL SIZE BURST TESTS 67-01 M17-58604
IMPLEMENTATION OF HIGH RELIABILITY OBJECTIVES OF SURVEYOR PRESSURE VESSELS 67-01 M17-58729
STRENGTH OF WELDED JOINTS OF THERMALLY STRENGTHENED STEELS UNDER BIAXIAL TENSION 67-02 M11-60833
STRENGTH IN BIAXIAL TENSION OF WELDED JOINTS IN HEAT TREATED STEELS 67-04 M11-67990
WELDED SPIRAL-LAYERED PRESSURE CONTAINERS 67-04 M17-66561
INVESTIGATION OF THE EFFECT OF THE CONSTRUCTION OF FITTINGS WITH BRAZED JOINTS ON THE FATIGUE STRENGTH OF PIPELINES 67-04 M17-66828
EFFECT OF VARIATION IN POISSONS RATIO ON PLASTIC TENSILE INSTABILITY 67-06 M17-71631
SILVER FOX HI-PROOF AUSTENITIC STAINLESS STEELS 67-06 M17-72099
EXPERIENCE WITH HIGH-STRENGTH WELDABLE STEELS IN PRESSURE LINE CONSTRUCTION 67-08 M17-74939
ROTATING STRENGTH OF HIGH-SPEED ROTOR 67-09 M17-77574
INTERNAL STATIC PRESSURE TESTS ON NORMAL AND HI-PROOF STAINLESS STEELS 67-10 M17-78559
BURSTING TESTS ON 9 PER CENT NI STEEL PRESSURE VESSELS AT LOW TEMPERATURES 67-10 M17-78638
RESULTS OF BURST TESTS ON NIOBIUM-TREATED HIGH TENSILE STEEL PIPES AT LOW TEMPERATURES 67-12 M17-83507
BURSTING STRENGTH, STRESS EFFECTS

BURSTING STRENGTH
THE BIAXIAL STRENGTHENING OF TEXTURED TITANIUM 67-06 M17-71628
BUS CONDUCTORS, CORROSION
ALUMINIUM BUSBARS IN PLATING 67-04 M12-68164
BUS CONDUCTORS, MATERIALS
THE RECENT DEVELOPMENTS OF ALUMINIUM CONDUCTORS IN FRANCE IN PUBLIC DISTRIBUTION AND INDUSTRIAL PLANTS 67-05 M20-68495
BUS CONDUCTORS, WELDMENTS
MEASURING ELECTRICAL CONDUCTIVITY OF AL-CU WELDED JOINTS 67-01 M15-57398
BUSES /CONDUCTORS/
SEE BUS CONDUCTORS
BUSHINGS, FRICTION
PRECISION STAMPING OF DRY FRICTION SLEEVE BEARINGS 67-01 M08-57247
BUSHINGS, HARDENING
HARDENING AUSTENTIC MANGANESE STEEL BY EXPLOSIVES. A BRIEF SUMMARY OF SEVERAL PAPERS PREVIOUSLY PUBLISHED 67-05 M17-69747
BUSHINGS, MACHINING
ECM TAILORED FOR PRECISION 67-03 M08-65039
DIAMOND TOOLS IMPROVE HONING 67-06 M08-70844
BUSHINGS, MECHANICAL PROPERTIES
EFFECT OF ALUMINUM ON THE CHANGE IN HARDNESS OF CALCIUM BABBIT 67-06 M17-70171
BUTT JOINTS
AUTOMATED WELDING OF LIGHT ALLOY STRUCTURES 67-01 M11-57147
BUTT RESISTANCE WELDING OF REINFORCING STRANDS WITH FILLER 67-02 M11-59857
FLASH WELDING AT THE GORKY AUTOMOBILE WORKS 67-02 M11-60007
A DEVICE FOR EXTERNAL AUTOMATIC SUBMERGED ARC WELDING OF LONGITUDINAL AND CIRCUMFERENTIAL SEAMS 67-02 M11-60134
COLD WELDING OF DUCTILE METALS--PROGRESS IN TECHNIQUES 67-02 M11-60920
REGULATING THE AMOUNT OF FUSION IN ARC WELDING OF NONROTATED BUTT WELDS IN TUBES 67-02 M11-61262
BUTT WELDING 0.2-0.3 MM DIAM WIRE IN METAL-WEAVING PRODUCTION 67-02 M11-61268
THE AUTOMATIC WELDING OF ELECTRIC MOTOR SHAFTS MADE OF DISSIMILAR STEELS 67-04 M11-67163
A COMBINED METHOD OF MAKING BUTT WELDS IN STEEL PIPING 67-04 M11-67173
REGULATING THE REINFORCEMENT IN UNROTATED PIPE JOINTS MADE BY ARC WELDING 67-05 M11-68262
BUTT WELDING OF 0.2-0.3 MM WIRE IN THE PRODUCTION OF WIRE GAUZE 67-05 M11-68268
SPIRAL BUTT WELDS IN THIN WALLED STAINLESS STEEL TUBES 67-05 M11-68269
VERTICAL MECHANIZED MIG WELDING OF ALUMINIUM 67-10 M11-80089
AN INVESTIGATION INTO THE MANUFACTURE OF ROUND STEEL CHAINS FABRICATED BY MEANS OF BUTT-SEAM RESISTANCE WELDING 67-11 M11-80510
STUDY OF NITRIDES IN WELD METAL DURING OPEN ARC WELDING OF STEEL 67-11 M11-80637
USING AN OPTIMIZER TO SELECT A FLASHING-OFF RATE PROGRAM IN CONTACT BUTT WELDING 67-11 M11-80640
HEAT CONDUCTION PROBLEMS IN LASER WELDING 67-11 M11-81001
BARE WIRE, SPRAY ARC-CO2 GAS SHIELDED PROCESS FOR STEELS 67-11 M11-81006
VERTICAL MECHANIZED MIG WELDING OF ALUMINUM 67-12 M11-83162
BUTT JOINTS, HEAT TREATMENT
RESEARCH INTO THE EFFECTS OF INDUCTION HEATING DURING NORMALIZATION ON THE MICROSTRUCTURE AND PROPERTIES OF BUTT WELDED JOINTS IN DRILL PIPE 67-02 M10-59790
BUTT JOINTS, MECHANICAL PROPERTIES
RIGID TEST BODY FOR METAL ADHESIVES 67-01 M11-58299
THE NARROW-GAP MIG WELDING PROCESS FOR THICK STEEL PLATES 67-01 M11-58699
RESEARCH INTO THE FATIGUE STRENGTH OF BUTT WELDED JOINTS BETWEEN STEEL TUBES 67-02 M17-59794
WELDING HEAT TREATED ST. 5 AND 35GS STEELS 67-02 M17-60003
THE DETERMINATION OF RESIDUAL WELDING STRESSES IN FUSION-WELDED BUTT WELDS --SWELL METHOD-- 67-02 M17-60508
DETERMINING THE IMPACT STRENGTH OF BUTT WELDED JOINTS BETWEEN STEEL PLATES 67-02 M17-61059
BRITTLE CRACKS IN AN OIL TANK 67-02 M17-61060
AUTOMATIC MIG WELDING OF ALUMINIUM ALLOYS 67-04 M11-66469
ARC WELDING SEAMS WITH FORCED SHAPING 67-04 M11-66577
STRESS CONCENTRATION IN BUTT WELDS 67-04 M17-66429
FATIGUE STRENGTH OF LOW-ALLOY STEEL WELDED JOINTS 67-04 M17-66565
STRENGTH OF WELDED JOINTS IN STRUCTURES MADE OF HIGH-STRENGTH STEEL 67-04 M17-66567
MECHANICAL PROPERTIES OF BUTT JOINTS OF ALUMINUM LEADS WELDED BY DIFFERENT TECHNIQUES 67-04 M17-67447
THE INFLUENCE OF THE THERMAL CYCLE ON THE QUALITY OF RESISTANCE BUTT WELDS IN GREY IRON 67-05 M11-68263
IMPROVING THE TECHNOLOGY OF WELDING AND REDUCING THIN-WALLED GAS PIPES ON CONTINUOUS FURNACE BUTT WELDING MILLS 67-05 M11-68552
EFFECT OF WELDING CONDITIONS ON THE STRENGTH OF WELDED AL ALLOY MEMBERS 67-05 M11-68861
IMPROVING THE METHOD OF WELDING AND REDUCING THIN-WALLED GAS AND WATER PIPES ON BENCHES FOR CONTINUOUS FURNACE BUTT WELDING 67-07 M11-72463
VERTICAL ARC WELDS MADE WITH CONSTRAINING MOULDS 67-07 M11-73434
THE ENDURANCE OF WELDED JOINTS IN LOW ALLOY STEELS 67-07 M13-73422
STRESS CONCENTRATION IN BUTT JOINTS 67-07 M17-72688
THE EFFECTIVENESS OF WELDED JOINTS IN METAL STRUCTURES MADE OF HIGH TENSILE STEEL 67-07 M17-73424
RESIDUAL STRESSES AND STRAIN ENERGY IN BUTT WELDS 67-09 M17-77815
FATIGUE STRENGTH OF TUBES BUTT WELDED USING A CERAMIC COATED BACKING MEMBER 67-09 M17-78152
SEMI-AUTOMATIC WELDING OF REINFORCING STEEL WITH POWDER WIRE 67-11 M11-80546
EFFECT OF GAS IMPURITIES ON THE MECHANICAL PROPERTIES OF VT6S ALLOY WELDED JOINTS 67-11 M11-80557
CONTACT BUTT WELDING PIECES IN HIGH-STRENGTH ALUMINUM ALLOYS 67-11 M11-80639
THE TECHNOLOGICAL EFFECTIVENESS AND VIBRATION STRENGTH OF WELDED JOINTS IN A DIESEL LOCOMOTIVE BLOCK 67-11 M11-80649
FATIGUE STRENGTH OF A WELDABLE HIGH STRENGTH MARTENSITIC STAINLESS STEEL 67-12 M11-82820
STUDIES ON SURFACE EFFECT AND NOTCH EFFECT ON THE FATIGUE OF WELDED ALUMINUM ALLOYS. PT. 1 67-12 M17-81902
BUTT JOINTS, MECHANICAL TESTS
APPARATUS FOR MEASURING THE SHEAR STRENGTH OF ADHESIVE JOINTS AT HIGH TEMPERATURES AND METHODS FOR CONSTRUCTING THE ADHESIVE JOINTS 67-08 M17-75988
BUTT JOINTS, MICROSTRUCTURE
DISTRIBUTION OF CHEMICAL ELEMENTS IN THE WELD ZONE DURING BUTT WELDING 67-02 M11-60199
BUTT JOINTS, NONDESTRUCTIVE TESTING
RECOMMENDATIONS ON THE USE OF ULTRASONIC INSPECTION OF BUTT WELDS 67-04 M19-67137
DRAFT RECOMMENDED PRACTICE FOR THE ULTRASONIC INSPECTION OF BUTT WELDS 67-09 M19-77814
BUTT JOINTS, WELDING
BUTT RESISTANCE WELDING OF MULTIPLE STRANDS 67-02 M11-59509
ERECTION WELDING OF BILAYER STEEL 20K-PLUS-KH17N13M2T 67-02 M11-59528
FLASH-BUTT WELDING FOR RAILS OF NEW TOKAIDO TRUNK LINE 67-02 M11-60168
INVESTIGATION OF A BUTT WELDING MACHINE AND THE WELDING CONDITIONS FOR WELDING CONTINUOUS BILLETS IN A 350-2 MILL 67-02 M11-60197
METHOD SELECTION AND VARIABLES FOR BUTT WELDING GRAY IRON 67-02 M11-60890
THERMAL CYCLE AND QUALITY OF WELD IN BUTT WELDING GRAY CAST IRON 67-02 M11-61263
INDICATOR OF THE POSITION OF THE LONGITUDINAL BUTT JOINT OF A PIPE DURING WELDING IN AN ELECTRIC PIPE-WELDED MACHINE 67-06 M11-70736
AUTOMATIC PLASMA ARC WELDING OF SQUARE BUTT PIPE JOINTS 67-08 M11-76065
BUTT WELDING
SEE BUTT JOINTS
WELDING

BUTT WELDS
SEE BUTT JOINTS
WELDED JOINTS
BV PROCESS
SEE DEGASSING

CABLES
STEEL STRANDS FOR PRESTRESSING 67-02 M20-61111
DISPERSION STRENGTHENED LEAD FOR CABLE SHEATHING 67-09 M09-76602
RECENT DEVELOPMENTS IN STEEL WIRE ROPES FOR HOISTING FROM GREAT DEPTHS 67-11 M20-81021
CABLES, COATING
PROCESS AND CONTROLS IN THE MANUFACTURE OF MINIATURE PRECISION COAXIAL CABLE 67-09 M12-76406
TINNING OF COPPER WIRE 67-12 M12-82653
CABLES, CORROSION
INHIBITING CORROSION OF REACTOR PRESTRESSING CABLES 67-11 M18-81245
CABLES, MECHANICAL PROPERTIES
STEEL CABLES WITH METALLIC CORES 67-06 M17-71270
METAL-CORED STEEL WIRE ROPE 67-08 M17-73739
RELAXATION TESTING OF WIRE BY MEASURING THE FREQUENCIES OF NATURAL TRANSVERSE OSCILLATIONS OF STRESSED SAMPLES 67-08 M17-74532
THE FATIGUE OF LEAD CABLE SHEATH MATERIALS 67-09 M17-76605
TESTS ON THIRTEEN DIFFERENT LEAD CABLE SHEATHING MATERIALS 67-09 M17-76606
MEASURING CREEP IN TRANSMISSION LINES 67-10 M17-79496
CABLES, SHEATHS
THREE TYPES OF CABLE SHEATH PRODUCED BY HIGH FREQUENCY WELDING 67-06 M11-71137
CABLES, STRUCTURAL MATERIALS
REFINING CABLE STEEL IN THE LADLE BY A SLAG FORMING MIXTURE AND SIMULTANEOUS ARGON BLOWING 67-07 M04-73778
REFINING CABLE STEEL IN LADLE WITH A SLAG-FORMING MIXTURE AND INJECTING IT WITH ARGON 67-09 M04-76541
CABLES, WELDING
BUTT RESISTANCE WELDING OF MULTIPLE STRANDS 67-02 M11-59509
THERMIT CRUCIBLE WELDING OF ELECTRIC GROUNDING WIRES TO METAL STRUCTURES 67-06 M11-70749
CADMIUM, ALLOYING ADDITIVE
THE EFFECTS OF CADMIUM ADDITION ON MECHANICAL PROPERTIES OF PB-0.06 PER CENT CU ALLOY 67-02 M17-60263
MARTENSITE IN TERNARY CU-ZN-BASED BETA-PHASE ALLOYS 67-03 M14-65079
THE INFLUENCE OF ALLOYING ELEMENTS ON ALUMINUM ANODES IN SEA WATER 67-03 M18-65473
EFFECT OF CADMIUM ADDITIVES ON THE ARTIFICIAL AGING OF SOME ALUMINUM ALLOYS 67-04 M14-67147
PROPERTIES OF SILVER ALLOYS, CONTAINING SMALL AMOUNTS OF PALLADIUM AND CADMIUM 67-06 M15-69987
LONG PERIOD STACKING ORDER IN CLOSE PACKED STRUCTURES OF AU-CD ALLOYS 67-10 M13-78719
COBALT-CADMIUM ALLOY DEPOSITION FROM SULFATE BATHS 67-11 M12-80666
LATTICE PARAMETER ANOMALIES IN INDIUM-CADMIUM SOLID SOLUTIONS 67-11 M16-80187
THE STRUCTURE OF THE ALUMINIUM-CADMIUM-TIN EUTECTIC 67-12 M13-81774
EFFECT OF CADMIUM ALLOY CONCENTRATION ON THE SUBSTRUCTURE AND DISLOCATION DENSITY IN ZINC SINGLE CRYSTALS 67-12 M13-82339
ORDERING AND ITS EFFECT ON DISLOCATION ARRANGEMENTS IN MG3CD 67-12 M14-82962
SUPERCONDUCTIVITY OF CD-BI EUTECTIC SOLDER 67-12 M16-82373
CADMIUM, ANALYZING
ELECTRON MICROBEAM PROBE ANALYSES OF NICKEL-CADMIUM BATTERY PLATES 67-05 M13-68776
CADMIUM, BINARY SYSTEMS
THE NBCD3 PHASE 67-02 M13-60889
THE STUDY OF FUSING OF VARIOUS ALLOYS MADE BY MEANS OF X-RAY FLUORESCENCE ANALYSIS 67-02 M14-60122
INVESTIGATION OF THE TEMPERATURE DEPENDENCE OF THE RESISTIVITY AND THERMO-EMF OF BISMUTH-CADMIUM AND BISMUTH-TIN MELTS OF EUTECTIC COMPOSITIONS 67-04 M15-67053
ANELASTICITY MEASUREMENTS IN THE MG-CD ALLOY SYSTEM 67-04 M17-66535
THE CADMIUM-SELENIUM SYSTEM 67-05 M13-68207
THE MIXING HEATS OF SB WITH B METALS. PT. 1. SYSTEMS WITH ZN AND CD 67-05 M15-68487
PHASE EQUILIBRIA IN THE CD-SE SYSTEM 67-06 M14-72174
THE VISCOSITY OF FUSIBLE GA-CD, GA-HG AND GA-BI DECOMPOSITION SYSTEMS 67-07 M15-72728
CONDITIONS FOR CRYSTALLIZATION OF INTERMEDIATE PHASES IN THE CD-SB SYSTEM 67-09 M14-76846
ELECTROLYTIC DEPOSITION OF ZINC-CADMIUM ALLOY FROM ACETATE BATHS 67-12 M12-83491
PHASE DIAGRAM OF THE ALLOY SYSTEM HGTE-CDTE 67-12 M14-82002
THE MECHANICAL PROPERTIES OF THREE GAMMA BRASS TYPE INTERMEDIATE PHASES--GAMMA CUZN, GAMMA AGZN, AND GAMMA CUCD 67-12 M17-82864
CADMIUM, COATING
CHROMATE CONVERSION COATINGS FOR ZINC AND CADMIUM 67-07 M12-73644
FLEXIBILITY OF OPERATION FOR JOBBING PLATER 67-11 M12-81494
CADMIUM, COATINGS
INFLUENCE OF THE ORGANIC ADDITIONS ON ELECTRODEPOSITION OF CADMIUM FROM SALT SOLUTIONS 67-01 M12-58709
DEFINITION OF ELECTROLYTES AND ELECTRODEPOSITS 67-02 M12-62288
THE ATMOSPHERIC CORROSION OF METALS AND MEASURES FOR THEIR PROTECTION UNDER CERTAIN CONDITIONS BY GALVANIC ZN AND CD COATINGS ON STEEL 67-08 M18-75513
ELECTRODEPOSITION OF CADMIUM FROM POLYETHYLENE-POLYAMINE ELECTROLYTES 67-11 M12-81287
INVESTIGATIONS OF CORROSION DAMAGE ON CD-PLATED PARTS AND THEIR RESULTS 67-12 M18-82689
CADMIUM, CONDENSING
METHOD AND APPARATUS FOR CONDENSING CADMIUM AND ZINC VAPORS 67-02 M03-58884
CADMIUM, CORROSION
THE CORROSION OF ZINC, CADMIUM AND LEAD IN GAPS 67-02 M18-60797
ANODIC DISINTEGRATION OF METALS UNDERGOING ELECTROLYSIS IN AQUEOUS SALT SOLUTIONS 67-05 M18-69475
ELECTROLYTIC A-C CORROSION OF SOME METALS 67-08 M18-76255
CADMIUM, CRYSTAL GROWTH
THE GROWTH MORPHOLOGY OF ZINC AND CADMIUM SINGLE CRYSTALS INVESTIGATED BY ELECTRON MICROSCOPY 67-01 M14-57578
SOME INTERESTING GROWTH PATTERNS ON VAPOUR-GROWTH CADMIUM SINGLE CRYSTALS 67-06 M14-71201
NUCLEATION OF CRYSTALS IN MULTILAYER METALLIC ADSORBATES 67-10 M14-79409
CADMIUM, CRYSTAL LATTICES
CALCULATION OF CLEAVAGE CHARACTERISTICS OF HEXAGONAL-CLOSE-PACKED CRYSTALS 67-01 M13-58456
STUDY OF DISLOCATION AND SLIP SYSTEMS IN CD AND ZN SINGLE CRYSTALS 67-06 M13-72371
ATOM MOVEMENTS DURING --1011-- TWINNING 67-06 M14-70445
THE DEPENDENCE OF THE CALCULATED ELASTIC CONSTANTS ON THE C..A RATIO FOR HEXAGONAL CLOSE-PACKED STRUCTURE METALS 67-06 M17-71498
STRESS FIELDS DUE TO DISLOCATION PILE-UPS IN HEXAGONAL METALS DURING ANISOTROPIC TREATMENT 67-09 M13-76794
STRESS FIELDS AROUND THE EDGE DIPOLE IN CD, ZN AND MG ANISOTROPIC CRYSTALS 67-09 M13-77516
ARRAYS OF DISLOCATION DIPOLES IN CADMIUM 67-10 M13-79014
CADMIUM, CRYSTALLIZATION
ON SURFACE POLYCRYSTALS OF CADMIUM 67-02 M14-60115
CADMIUM, DIFFUSION
DIFFUSION OF CADMIUM IN INDIUM ARSENIDE 67-03 M14-65457
DIFFUSION AND SOLUBILITY OF CADMIUM IN INDIUM ARSENIDE 67-05 M16-69395
DIFFUSION AND SOLUBILITY OF ZINC, CADMIUM, INDIUM AND IRON IN LEAD SELENIDE 67-06 M14-70939
MEASUREMENTS OF THE SELF-DIFFUSION COEFFICIENT OF CADMIUM WITH THE AID OF THE SECTION METHOD 67-10 M14-78693
ANISOTROPIC ISOTOPE EFFECT FOR DIFFUSION OF ZINC

AND CADMIUM IN ZINC 67-10 M14-79411
DIFFUSION OF CADMIUM AND TIN IN LIQUID BISMUTH 67-11 M14-81207
ELECTROMIGRATION OF CADMIUM AND INDIUM IN LIQUID BISMUTH 67-12 M14-82957

CADMIUM, DISSOLVING
THE ANODIC DISSOLUTION OF CADMIUM 67-07 M14-73448

CADMIUM, ELECTROLYSIS
INFLUENCE OF CHLORIDE IONS ON THE ELECTRODEPOSITION OF ZINC AND CADMIUM IN THE PRESENCE OF SURFACE-ACTIVE SUBSTANCE 67-08 M03-74480
INDUSTRIAL USE OF AN INTENSIFIED METHOD OF CADMIUM ELECTROLYSIS WITH PRODUCTION OF A NONCOMPACT DEPOSIT 67-12 M03-83089

CADMIUM, EXTRACTION
CADMIUM DISTRIBUTION IN IMPROVED PYRITIC SMELTING AND FURTHER TREATMENT OF PRODUCTS 67-02 M03-59959
EXTRACTION OF CADMIUM FROM DUST FORMED DURING THE MANUFACTURE OF LEAD 67-09 M03-76807
ON INTENSIFYING THE CEMENTATION OF METALS ON ZINC FROM SULFATE SOLUTIONS 67-09 M03-76889
DIRECT REDUCTION OF CADMIUM SULPHIDE WITH COPPER 67-10 M03-79503
REMOVAL OF ARSENIC FROM SOLUTIONS DURING TREATMENT OF DUST FROM THE COPPER SMELTING INDUSTRY. 67-10 M03-80050
METHOD AND DEVICE FOR RECIRCULATORY HEATING OF ZINC RECTIFICATION COLUMNS 67-11 M03-81621
CADMIUM. 2ND REVISED EDITION 67-12 M01-83479

CADMIUM, INTERMETALLICS
ANOMALOUS THERMAL CONDUCTIVITY OF CD3AS2 AND THE CD3AS2-ZN3AS2 ALLOYS 67-01 M15-57118
EFFECT OF ALLOYING ON THE STABILITY OF THE STRUCTURE OF THE COMPOUND CD3SB2 IN ALLOYS IN THE CD-SB SYSTEM 67-02 M14-58982
NATURE OF THE ORDER-DISORDER TRANSFORMATION IN THE ALLOY MG3CD 67-02 M14-61922
SOME CROSS-SUBSTITUTIONAL ALLOYS OF CDTE 67-02 M16-61765
CRYSTALLINE STRUCTURES OF CERTAIN COMPOUNDS OF RARE-EARTH METALS WITH CADMIUM 67-07 M13-73482
ELECTRIC AND THERMOELECTRIC EFFECTS IN A SOLID SOLUTION OF ZNXCD1-XSB 67-09 M15-76737
ON THE THERMAL CONDUCTIVITY OF CDTE AND SOME CDTE1 MINUS X SX AND CDTE1 MINUS X SEX SOLID SOLUTIONS 67-10 M15-79007
TEMPERATURE-DEPENDENT VARIATIONS OF THE EQUILIBRIUM ORDER PARAMETER OF THE HEXAGONAL LONG-RANGE ORDERED PHASE 1 IN THE CADMIUM-MAGNESIUM ALLOY OF STOICHIOMETRIC COMPOSITION, CDMG3 67-11 M14-81563

CADMIUM, IRRADIATION
REDISTRIBUTION OF IMPURITIES IN METALS DURING IRRADIATION AND RECOVERY 67-04 M16-67388

CADMIUM, MAGNETIC PROPERTIES
RADIOFREQUENCY SIZE EFFECTS IN CADMIUM IN MAGNETIC FIELDS INCLINED TO THE SAMPLE SURFACE 67-08 M15-75233

CADMIUM, MECHANICAL PROPERTIES
ELASTIC CONSTANTS OF CADMIUM FROM 300 TO 575 K 67-01 M17-57117
PROBLEM OF THE INTERRELATION BETWEEN THE SPEED, TEMPERATURE AND FORCE INDICES OF HARDNESS NUMBERS 67-01 M17-58136
THE EFFECT OF VACUUM ANNEALING ON THE STRAIN BEHAVIOUR OF CADMIUM SINGLE CRYSTALS 67-02 M17-61531
ACTIVATION ENERGY OF THE TEMPERATURE BACKGROUND OF INTERNAL FRICTION 67-04 M17-66497
TEXTURE STRENGTHENING 67-05 M17-68669
STRESS RELAXATION IN CD SINGLE CRYSTALS 67-05 M17-69793
APPLICATION OF ANISOTROPIC ELASTICITY THEORY TO THE CHOICE OF PRIMARY SLIP SYSTEMS IN HCP METAL CRYSTALS 67-06 M17-71277
EMBRITTLEMENT OF CADMIUM BY INDIUM IN MERCURY AT ROOM TEMPERATURE 67-06 M17-71290
THERMALLY ACTIVATED SHEAR STRESS IN CADMIUM SINGLE CRYSTALS 67-06 M17-71665
THE LINEAR HARDENING OF CADMIUM 67-07 M17-73063
PLASTICITY OF CADMIUM AND ZINC WHISKER CRYSTALS 67-10 M17-79449

CADMIUM, MICROSTRUCTURE
GRAIN-BOUNDARY SLIDING IN METALS 67-02 M13-61780
THE MICROSTRUCTURE OF TENSILE KINKS IN CADMIUM CRYSTALS 67-03 M13-65213
EFFECT OF CYCLIC HEATING AND COOLING ON FRAGMENTED STRUCTURE OF ALUMINUM AND CADMIUM SINGLE CRYSTALS 67-05 M13-69665

CADMIUM, PHASE TRANSFORMATIONS
THE INFLUENCE OF LOW-FREQUENCY VIBRATION ON THE NUCLEATION OF SOLIDIFYING METALS 67-02 M14-61840

CADMIUM, PHYSICAL PROPERTIES
THERMAL RELAXATION OF MECHANICAL VIBRATIONS IN POLYCRYSTALS 67-04 M15-67824
ENERGY OF THE DONOR GROUND STATE IN CDS, CDSE, AND ZNO 67-11 M15-80629

CADMIUM, POWDER METALLURGY
PREPARATION OF FINE METAL PARTICLES BY MEANS OF EVAPORATION IN HELIUM GAS 67-08 M09-75933

CADMIUM, QUATERNARY SYSTEMS
STUDY OF THE QUATERNARY SYSTEM IN-SB-CD-SN TO DETERMINE THE PHASE EQUILIBRIA IN THE SECTION OF INSB --CDSNSB2-- 67-06 M13-71119

CADMIUM, RADIATION EFFECTS
THRESHOLD ENERGY FOR ATOMIC DISPLACEMENT IN CADMIUM TELLURIDE 67-11 M16-80617

CADMIUM, REACTIONS /CHEMICAL/
DISSOLUTION OF METALS BY AC ELECTROLYSIS 67-01 M14-58583
INFLUENCE OF CHLORIDE IONS ON THE RATE OF THE ELECTRODE PROCESSES UNDER CONDITIONS OF ADSORPTION OF ADDITIVES ON THE ELECTRODES 67-08 M03-74477

CADMIUM, REFINING
DECOPPERING AND DELEADING CADMIUM SOLUTIONS 67-04 M03-67525
LABORATORY STUDIES ON THE HYDROMETALLURGICAL TREATMENT OF COPPER-LEAD-ZINC INTERMEDIATE PRODUCTS 67-07 M03-72782
INVESTIGATION OF THE DEEP REFINEMENT OF CADMIUM AND ZINC BY RECTIFICATION AND ZONE MELTING 67-09 M03-76982

CADMIUM, SEPARATION
AUTOMATIC SYSTEM FOR CONTROL OF COPPER WHEN SEPARATING COPPER AND CADMIUM IMPURITIES FROM ZINC ELECTROLYTES 67-08 M03-75202

CADMIUM, SINGLE CRYSTALS
ON DISLOCATIONS ETCHED IN DEFORMED CADMIUM SINGLE CRYSTALS 67-04 M13-66059
THE STRESS RELATIONSHIP IN STAGE B OF THE WORK HARDENING CURVE OF CD SINGLE CRYSTALS 67-11 M17-80368

CADMIUM, SUPERCONDUCTIVITY
ULTRASONIC STUDIES OF THE SUPERCONDUCTIVITY OF DOPED TIN 67-02 M16-60530

CADMIUM, SURFACE PROPERTIES
DETERMINING THE TRUE SURFACE VALUE OF ZN, CD AND MG VACUUM CONDENSATES IN THE PROCESS OF OXIDATION 67-04 M18-67654

CADMIUM, TERNARY SYSTEMS
THE CONSTITUTION OF ALUMINIUM-CADMIUM-TIN ALLOYS 67-05 M14-68720
PLANES AND NONVARIANT EQUILIBRIA IN THE SYSTEM COPPER-CADMIUM-ZINC 67-06 M14-71660
PHASE-RELATIONS IN COPPER-CADMIUM-ZINC-ALLOYS 67-06 M14-71859
ELECTROLYTIC A-C CORROSION OF POLYELECTRODE SYSTEMS 67-08 M18-74623
THE MICROSTRUCTURES OF TERNARY EUTECTIC ALLOYS IN THE SYSTEMS CD-SN---PB, IN, TL--, AL-CU---MG, ZN, AG--, AND ZN-SN-PB 67-09 M13-76678
PRIMARY SOLID-SOLUTION PHASE BOUNDARY IN SILVER CORNER OF SILVER-CADMIUM-INDIUM TERNARY SYSTEM 67-12 M14-82758

CADMIUM, THERMAL PROPERTIES
THE ABSOLUTE THERMOELECTRIC POWER OF LIQUID METALS 67-01 M15-57972
THE BOILING-POINT RELATIONS OF CADMIUM AND ZINC AT ELEVATED PRESSURES 67-03 M15-65208

CADMIUM, THIN FILMS
ELECTRODEPOSITION OF METALS IN ULTRASONIC FIELDS 67-04 M12-66279
STABLE BATHS FOR ELECTROPLATING ZINC AND CADMIUM 67-06 M12-71199
DETERMINATION OF THE THICKNESS OF AG, CD AND SN USING FLUORESCENT KALPHA X-RAYS INDUCED BY TM 170 67-12 M19-83256

CADMIUM, TRANSPORT PROPERTIES
EFFECT OF SAMPLE GEOMETRY ON MAGNETOMORPHIC OSCILLATIONS IN THE HALL EFFECT IN CADMIUM AT LIQUID-HELIUM TEMPERATURES 67-09 M15-77168

CADMIUM BASE ALLOYS, ATOMIC PROPERTIES
KNIGHT SHIFTS IN LIQUID BINARY ALLOYS CONTAINING DIVALENT METALS 67-07 M16-73492
CADMIUM BASE ALLOYS, CHEMICAL ANALYSIS
POLARGRAPHIC ANALYSIS OF CADMIUM AND ZINC IN AN ALLOY OF THESE TWO METALS 67-12 M19-83492
CADMIUM BASE ALLOYS, COATINGS
NICKEL-CADMIUM ALLOY DEPOSITION FROM THE SULPHATE BATH 67-05 M12-68343
CADMIUM BASE ALLOYS, CRYSTAL LATTICES
ATOM MOVEMENTS DURING --1011-- TWINNING 67-06 M14-70445
CADMIUM BASE ALLOYS, DIFFUSION
SELF-DIFFUSION IN NEAR-EQUIATOMIC ORDERED AU-CD ALLOYS 67-05 M14-69819
CADMIUM BASE ALLOYS, ELECTRICAL PROPERTIES
THE SEEBECK EMF FOR CERTAIN BI-, CD-, PB-, SN- AND TL-BASE ALLOYS AGAINST THE PURE SOLVENT 67-10 M15-79951
CADMIUM BASE ALLOYS, MECHANICAL PROPERTIES
ROOM TEMPERATURE MECHANICAL PROPERTIES OF CADMIUM-ZINC LAMELLAR EUTECTIC ALLOYS 67-09 M17-77928
CADMIUM BASE ALLOYS, MICROSTRUCTURE
ON THE OBSERVATION OF GHOST BOUNDARIES PRODUCED BY GRAIN GROWTH IN DILUTE CADMIUM ALLOYS 67-01 M14-57431
MICROSTRUCTURES OF CADMIUM-ZINC EUTECTIC ALLOY 67-02 M13-61591
THE MORPHOLOGY OF SOME BINARY EUTECTIC ALLOYS 67-08 M14-74519
CADMIUM BASE ALLOYS, PHASE TRANSFORMATIONS
INVESTIGATION OF THE REGULARITIES OF CRYSTALLIZATION AND STABILIZATION OF THE STRUCTURE IN THE CDSB AND CD3SB2 COMPOUNDS IN ALLOYS OF THE CD-SB SYSTEM 67-01 M14-57694
THERMODYNAMIC PROPERTIES AND SECOND-ORDER PHASE TRANSITION OF LIQUID CD-SB ALLOYS 67-11 M14-81336
CADMIUM BASE ALLOYS, PHASES /STATE OF MATTER/
COALESCENCE OF DISPERSION PHASES IN ALLOYS OF THE AL-CU, AL-MG AND CD-SB SYSTEMS 67-05 M14-68972
TEMPERATURE AFTER-EFFECTS IN TWO-PHASE ALLOYS 67-08 M15-75279
CADMIUM BASE ALLOYS, SOLDERS
PROPERTIES OF CADMIUM-ZINC HIGH STRENGTH SOLDER ALLOY 67-06 M12-72150
CADMIUM BASE ALLOYS, THERMAL PROPERTIES
THERMODYNAMIC PROPERTIES AND EQUILIBRIUM PHASE DIAGRAMS IN THE AL-PB AND AL-CD SYSTEMS 67-12 M15-82595
CADMIUM BASE ALLOYS, TRANSPORT PROPERTIES
ORDINARY TRANSPORT PROPERTIES OF THE GAMMA PHASE ALLOYS 67-07 M15-72405
CADMIUM COMPOUNDS, ATOMIC PROPERTIES
X-RAY SPECTRAL ANALYSIS OF SEMICONDUCTING COMPOUNDS OF CADMIUM WITH ANTIMONY, OXYGEN, AND SULFUR 67-11 M16-80179
PHOTOEMISSION STUDIES OF CDTE 67-12 M16-82535
CADMIUM COMPOUNDS, BAND THEORY
ENERGY BAND STRUCTURE OF CDS USING SELF-CONSISTENT OPW AND PSEUDOPOTENTIAL METHODS 67-04 M16-66740
SHUBNIKOV-DE HAAS EFFECT AND ELECTRON BAND STRUCTURE OF CADMIUM ARSENIDE 67-04 M16-66768
PHOTOEMISSION STUDY OF THE ELECTRONIC STRUCTURE OF CDTE 67-06 M16-72095
CADMIUM COMPOUNDS, BINARY SYSTEMS
STRUCTURE AND PROPERTIES OF COMPOUNDS FORMED BY ALUMINA AND OXIDES OF THE ELEMENTS OF GROUP 2-8 67-04 M14-66311
THE PHYSICAL AND ELECTRONIC PROPERTIES OF SEMICONDUCTING SOLID SOLUTIONS OF THE CD3AS2-ZN3AS2 SYSTEM 67-09 M15-78254
CADMIUM COMPOUNDS, CLEANING
CHEMICAL POLISHING OF CADMIUM SULFIDE 67-06 M12-70668
CADMIUM COMPOUNDS, COATINGS
CDXHG1-XTE FILMS BY CATHODIC SPUTTERING 67-09 M12-76629
CADMIUM COMPOUNDS, CRYSTAL GROWTH
GROWING OF CDTE SINGLE CRYSTALS BY STATIC SUBLIMATION UNDER PRESSURE OF ONE COMPONENT 67-04 M14-66038
GROWING CADMIUM SELENIDE SINGLE CRYSTALS FROM MOLTEN ELEMENTS 67-04 M14-67442
GROWTH OF CDS FROM LIQUID CD SOLUTION 67-06 M14-72176
CRYSTAL GROWTH AND ORIENTATION OF VACUUM DEPOSITED FILMS OF CDTE 67-07 M14-73318
PREPARATION AND SOME PROPERTIES OF SOLID SOLUTIONS CD1-XMGXTE 67-08 M14-75058
GROWING CADMIUM SULFIDE CRYSTALS FOR ULTRASONICS AMPLIFICATION 67-10 M14-79248
CADMIUM COMPOUNDS, CRYSTAL LATTICES
PREPARATION OF HEXAGONAL CADMIUM TELLURIDE FILMS 67-02 M14-61660
X-RAY DIFFRACTION STUDIES ON CDTE AT HIGH PRESSURE 67-03 M13-65719
INFRARED ABSORPTION OF LOCALIZED VIBRATION DUE TO LITHIUM IN ZINC SELENIDE AND CADMIUM SULFIDE 67-04 M16-66745
VARIATION OF THE MEAN-SQUARE DYNAMIC DISPLACEMENTS OF ZINC AND CADMIUM TELLURIDES AS A FUNCTION OF THE TEMPERATURE 67-11 M14-80166
CADMIUM COMPOUNDS, DIFFUSION
DIFFUSION OF THE CHALCOGENS IN THE 2-6 COMPOUNDS 67-09 M14-77174
CADMIUM COMPOUNDS, ELASTIC CONSTANTS
ELASTIC CONSTANTS OF HEXAGONAL BEO, ZNS AND CDSE 67-08 M17-75130
CADMIUM COMPOUNDS, ELECTRICAL PROPERTIES
SURFACE PINNED LAYER-LIKE FIELD INHOMOGENEITIES IN CDS 67-02 M15-61526
ELECTRICAL PROPERTIES OF SOME LIQUID SEMICONDUCTORS 67-02 M16-60810
DISTRIBUTIONS OF ELECTRICALLY ACTIVE DEFECTS IN THE SURFACE REGION OF CDS SINGLE CRYSTALS 67-03 M16-65806
HIGH FIELD MOBILITY OF PHOTOELECTRONS IN CDS 67-04 M16-66773
CURRENT SATURATION AND INSTABILITIES IN CDS CRYSTALS 67-04 M16-66775
ACOUSTOELECTRIC EFFECT IN SEMICONDUCTING CDS 67-04 M16-66776
OSCILLATORY PHOTOCONDUCTIVITY OF CADMIUM TELLURIDE AND ITS RELATIONSHIP TO EXCITON ABSORPTION 67-05 M16-69381
DIFFUSENESS OF FERROELECTRIC PHASE TRANSITIONS IN SOLID SOLUTIONS OF THE --BAPBCA-- TIO3 SYSTEM 67-05 M16-69392
NEGATIVE RESISTANCE IN CADMIUM SULPHIDE FILMS 67-06 M15-71044
P-TYPE PHOTOELECTRIC BEHAVIOR IN CDS DOMINATED BY A HIGH-RESISTIVITY REGION NEAR THE ANODE 67-06 M16-69922
THE ANISOTROPY OF THE ELECTRONIC PROPERTIES OF INTRINSIC CDSE 67-06 M16-70465
SOME DIELECTRIC AND ELECTRONIC PROPERTIES OF CDSE FILMS 67-06 M16-71185
PRODUCTION, STRUCTURE AND CERTAIN PHOTOELECTRIC PROPERTIES OF SINGLE- AND MULTI-LAYER SINGLE-CRYSTAL AIIBVI AND AIVBVI CHALCOGENIDE FILMS 67-09 M16-76761
CADMIUM COMPOUNDS, IRRADIATION
ELECTRON RADIATION DAMAGE IN CADMIUM-SELENIDE CRYSTALS AT LIQUID-HELIUM TEMPERATURE 67-10 M16-79419
CADMIUM COMPOUNDS, MAGNETIC PROPERTIES
PARAMAGNETIC CENTERS ON THE SURFACE OF CDSE 67-06 M16-70872
THE MAGNETIC SUSCEPTIBILITY OF P-TYPE CDSB 67-07 M16-73463
CADMIUM COMPOUNDS, MECHANICAL PROPERTIES
ACOUSTICS AND THIN FILMS 67-08 M17-74722
EFFECT OF PRESSURE ON THE ELASTIC PARAMETERS AND STRUCTURE OF CDS 67-09 M17-77172
THE VOIGT-REUSS-HILL APPROXIMATION AND ELASTIC MODULI OF POLYCRYSTALLINE MGO, CAF2, BETA-ZNS, ZNSE, AND CDTE 67-10 M17-79160
EFFECT OF PLASTIC STRAINING ON THE BRITTLENESS THRESHOLD OF METALLIC COMPOUNDS 67-10 M17-79226
CADMIUM COMPOUNDS, METALLOGRAPHY
SOME INNOVATIONS AND OBSERVATIONS ON HIGH PRESSURE DIFFRACTOMETRY 67-01 M13-58762
CADMIUM COMPOUNDS, MICROSTRUCTURE
TEXTURE AND ELECTRICAL CONDUCTIVITY OF CADMIUM SULFIDE FILMS 67-02 M15-61658
CADMIUM COMPOUNDS, OPTICAL PROPERTIES
OPTICAL PROPERTIES AND ENERGY BAND STRUCTURE OF ZNS-CDS SINGLE CRYSTALS 67-04 M16-66748
OPTICAL ABSORPTION, PHOTOCONDUCTIVITY, SPONTANEOUS AND STIMULATED LIGHT EMISSION INVOLVING EXCITON STATES IN CDTE 67-04 M16-66749
HIGH FIELD MAGNETO-OPTICAL STUDIES OF CD3AS2

CADMIUM COMPOUNDS
67-04 M16-66751
INFRARED LATTICE REFLECTION SPECTRA OF 2-6 COMPOUNDS 67-08 M15-75937
FAR-INFRARED OPTICAL PROPERTIES OF CAF2, SRF2, BAF2 AND CDF2 67-09 M15-77178
KINETICS OF OPTICAL CHARGE EXCHANGE IN COPPER-DOPED CADMIUM SULPHIDE SINGLE CRYSTALS 67-11 M15-81687
CADMIUM COMPOUNDS, PHASE TRANSFORMATIONS
NEW PHASES IN A CD-V-02 SYSTEM 67-10 M14-79713
THE RBF-CDF2 SYSTEM 67-12 M13-83160
CADMIUM COMPOUNDS, PHYSICAL PROPERTIES
THE PREPARATION AND PROPERTIES OF ZNSIAS2, ZNGEP2 AND CDGEP2 SEMICONDUCTING COMPOUNDS 67-02 M16-59744
TRANSIENT MAGNETORESISTANCE OF PHOTOELECTRONS IN CADMIUM SULFIDE 67-04 M16-67472
THE OPTICAL AUTOABSORPTION AND THE DIELECTRIC CONSTANT OF CADMIUM OXIDE AT HIGH ELECTRON DEGENERATION 67-06 M16-69963
STUDY OF THE ELECTRICAL CONDUCTIVITY OF CDSNAS2 IN THE SOLID AND LIQUID STATES 67-10 M15-79831
MICROWAVE EMISSION FROM CDS 67-11 M15-80818
CONTINUOUS AMPLIFICATION OF ULTRASOUND IN CADMIUM SELENIDE 67-11 M15-81054
SATURATED PHOTOCURRENTS IN CD4GES6 67-11 M15-81676
CADMIUM COMPOUNDS, RADIATION COUNTERS
POSSIBLE USE OF CADMIUM TELLURIDE FOR N-P GAMMA-RAY DETECTORS 67-05 M16-68400
CADMIUM COMPOUNDS, REACTIONS /CHEMICAL/
VOLATILIZATION RATE OF CADMIUM SULFIDE AT 1000 TO 1400 C 67-08 M14-75873
CADMIUM COMPOUNDS, SEMICONDUCTORS
PREPARATION AND PROPERTIES OF VACUUM DEPOSITED CDS AND CDSE FILMS 67-02 M16-61121
THE PREPARATION AND PROPERTIES OF ZNSIAS2, ZNGEP2 AND CDGEP2 SEMICONDUCTING COMPOUNDS 67-03 M16-65394
SOME OPTICAL PROPERTIES OF THIN EVAPORATED CD3AS2 FILMS 67-08 M15-75220
LUMINESCENCE OF CDS EXCITED BY ELECTRONS OF VARIOUS ENERGIES 67-08 M16-75231
THE INFLUENCE OF HIGH-PHONON FLUX DENSITIES ON THE X-RAY REFLECTIVITY OF NEARLY IDEAL CDS CRYSTALS 67-08 M16-75253
THE THERMOELECTRIC EFFICIENCY OF CDSB AND SOLID SOLUTIONS OF ZNXCB1-XSB WITH HOLE CONDUCTIVITY 67-10 M15-79107
PHOTOVOLTAIC PROPERTIES OF CDS-P-TYPE SI HETEROJUNCTION CELLS 67-11 M15-80825
PREPARATION, STRUCTURE AND PHOTOELECTRIC PROPERTIES OF CDS, CDS-CDSE AND CDSE SINGLE-CRYSTAL FILMS 67-12 M16-83356
CADMIUM COMPOUNDS, SINGLE CRYSTALS
CRYSTAL GROWTH AND POLYTYPISM 67-06 M14-71033
CADMIUM COMPOUNDS, STOICHIOMETRY
NONSTOICHIOMETRY OF CADMIUM SULFIDE THIN FILMS 67-04 M15-67327
CADMIUM COMPOUNDS, SURFACE PROPERTIES
SURFACE STATES ON THE --0001-- FACES OF CADMIUM SULPHIDE CRYSTALS 67-04 M16-67739
CADMIUM COMPOUNDS, SYNTHESIS
A NEW FAMILY OF OXYGENATED BRONZES--THE CDXWO3 SERIES 67-02 M14-62286
CADMIUM COMPOUNDS, THERMAL PROPERTIES
ULTRASONIC ATTENUATION IN CADMIUM SULFIDE FROM 1.8 TO 300 K 67-03 M15-65868
DIRECT DETERMINATION OF HEATS OF REACTIONS BETWEEN SOLID PHASES BY ANALYSIS OF THERMAL GRADIENT DATA 67-12 M15-83200
CADMIUM COMPOUNDS, THIN FILMS
PREPARATION OF PHOTOSENSITIVE FILMS OF CADMINUM SULFIDE BY VACUUM EVAPORATION 67-08 M12-75182
EFFECT OF HEAT-TREATMENTS IN VACUUM-DEPOSITED CDS/AG AND CDS/LI FILMS 67-11 M14-80820
CADMIUM COMPOUNDS, TRANSPORT PROPERTIES
SOME TRANSPORT PROPERTIES OF CONDUCTION ELECTRONS IN N-TYPE CDS 67-02 M15-59470
PHYSICAL AND ELECTRONIC PROPERTIES OF CD3AS2-ZNSNAS2 ALLOYS 67-04 M15-67578
GALVANOMAGNETIC EFFECTS AND BAND STRUCTURE OF CDSB 67-04 M16-66765
GALVANOMAGNETIC EFFECTS IN CADMIUM ANTIMONIDE 67-04 M16-67470
SURFACE PROPERTIES OF 2-6 COMPOUNDS 67-05 M15-69818
PREPARATION OF CDS AND CD --S, SE-- EVAPORATED LAYERS AND THEIR PHOTOELECTRIC PROPERTIES 67-05 M15-69881
BEHAVIOR OF PHOSPHORUS IN CADMIUM TELLURIDE 67-05 M16-69399
HIGH-MOBILITY PBS AND CDS FILMS DEPOSITED UNDER ULTRAHIGH VACUUM EQUILIBRIUM CONDITIONS 67-06 M14-71140
INFRARED QUENCHING OF THE IMPURITY PHOTOCONDUCTIVITY IN CADMIUM SULFIDE 67-06 M15-70522
CADMIUM COMPOUNDS, TRANSPORT PROPERTIES
RADIATION DAMAGE IN CADMIUM SULFIDE AND CADMIUM
RADIATION DAMAGE IN CADMIUM SULFIDE AND CADMIUM TELLURIDE
TELLURIDE 67-08 M16-75126
THERMOSTIMULATED CURRENTS IN P-TYPE CADMIUM TELLURIDE SINGLE CRYSTALS 67-09 M15-76738
FREQUENCY SPECTRUM OF ACOUSTIC WAVES GENERATED IN PHOTOCONDUCTING CDS IN HIGH ELECTRIC FIELDS 67-10 M16-79407
TEMPERATURE DEPENDENCE OF STIMULATED EMISSION OF ELECTRON-BEAM-PUMPED CDTE 67-10 M16-79468
ELECTROMAGNETIC AND THERMOMAGNETIC EFFECTS IN CADMIUM ARSENIDE 67-11 M15-80611
CADMIUM COMPOUNDS, X RAY ANALYSIS
A SPECIAL METHOD OF POLE FIGURE ANALYSIS OF CDS FILMS 67-08 M13-74709
CADMIUM PLATING
SOME PRODUCTION PLATING PROBLEMS AND HOW THEY WERE SOLVED. PT. 8 67-02 M12-60684
THE DEPOSITION OF CADMIUM 67-04 M12-67797
CORROSION BEHAVIOR OF ELECTROPLATES. PT. 2. CORROSION CURRENTS IN ZINC-STEEL AND CADMIUM-STEEL COUPLES AND DECAY CHARACTERISTICS OF STEEL 67-04 M18-66286
COMBATTING HYDROGEN EMBRITTLEMENT IN STEELS. IMPROVED ELECTROPLATING METHODS AND THEIR USE 67-05 M12-68488
ALTERNATIVES TO CADMIUM PLATE 67-05 M12-68828
CADMIUM PLATING IN A HYDROFLUOROBORIC ELECTROLYTE 67-07 M12-72874
USE OF COMPLEX COBALT --3---AMMINE COMPOUNDS AS LUSTRE ADDITIVES IN CADMIUM ELECTROPLATING BATHS 67-07 M12-73768
SOME PRODUCTION PLATING PROBLEMS AND HOW THEY WERE SOLVED. PT. 11 67-07 M12-74127
VARIATIONS IN THICKNESS OF PLATE IN CAVITIES ELECTROPLATED WITH CADMIUM 67-07 M12-74128
DELAYED FAILURE OF CADMIUM PLATED STEELS AT ELEVATED TEMPERATURES 67-09 M17-77261
INVESTIGATION OF THE INFLUENCE OF CURRENT DENSITY ON HYDROGEN EMBRITTLEMENT IN A HIGH-STRENGTH STEEL CADMIUM-PLATED IN AN ALKALINE BATH. PT. 3 67-09 M17-77828
CAGE MILLS
SEE PLANETARY MILLS
CAGE ZONE MELTING
.SEE ZONE MELTING
CAGE ZONE REFINING
SEE ZONE MELTING
CAKES /METAL/
SEE INGOTS
CALANDRIA
SEE HEAT EXCHANGERS
CALCINATION
SEE ROASTING
CALCINING
SEE ROASTING
CALCITE, BENEFICIATION
EFFECT OF THE ORDER OF ADDING REAGENTS ON THE FLOTATION PROPERTIES OF CERTAIN MINERALS 67-11 M02-81507
CALCITE, SINTERING
SIZED LIMESTONE FOR IRON ORE SINTERING 67-01 M02-57510
CALCIUM, ALLOYING ADDITIVE
MANUFACTURE OF SPHEROIDAL GRAPHITE CAST IRON WITH MG AND RARE-EARTH MIXED AGENT 67-02 M06-60754
INFLUENCE OF CALCIUM METAL ON THE STRUCTURE AND PROPERTIES OF CAST HIGH-ALLOY CR-NI STEELS 67-02 M15-61018
PROBLEMS OF CORROSION OF BERYLLIUM IN CARBON DIOXIDE UNDER PRESSURE AT HIGH TEMPERATURES 67-03 M18-65259
THE EFFECT OF CA ON CAST IRON MELTS 67-06 M14-70042
SOLUBILITY OF CALCIUM IN PHASE CONSTITUENTS OF HIGH-SILICON FERROSILICON 67-08 M14-74572

EFFECT OF SILICON, BORON AND CALCIUM ON OXIDATION OF LIQUID IRON-CHROMIUM ALLOYS 67-08 M18-75870
CALCIUM, ALLOYING EFFECTS
INFLUENCE OF CALCIUM ON BEHAVIOR OF LEAD AND TIN IMPURITIES DURING ZONE REFINING OF ALUMINUM 67-09 M03-77116
CALCIUM, ATOMIC PROPERTIES
ELECTRONIC STRUCTURE OF CA, SR, AND BA UNDER PRESSURE 67-06 M16-69907
COMMENTS ON PAPERS RESULTING FROM HUME-ROTHERYS NOTE-1965 67-06 M16-71970
CALCIUM, BINARY SYSTEMS
THERMODYNAMIC PROPERTIES OF THE CALCIUM-ZINC SYSTEM 67-12 M15-82575
CALCIUM, DIFFUSION
THE DIFFUSION OF CALCIUM IN MAGNESIUM OXIDE 67-01 M14-57943
DETERMINING DIFFUSION OF CALCIUM, IRON AND SULFUR IN SINTERED OXIDIZED NICKEL ORES 67-02 M14-60087
SELF-DIFFUSION OF CALCIUM IN SINGLE CRYSTAL CALCIUM OXIDE 67-07 M14-73636
CALCIUM, ELECTRICAL PROPERTIES
THE RESISTIVITY OF CALCIUM, STRONTIUM AND BARIUM UNDER PRESSURE 67-07 M15-73143
CALCIUM, EMISSION
ADSORPTION AND ELECTRON EMISSION OF ALKALINE-EARTH METAL FILMS ON TUNGSTEN, IRIDIUM, AND RHODIUM 67-06 M16-70508
CALCIUM, OPTICAL PROPERTIES
K-SPECTRUM OF METALLIC CA. CONNECTION BETWEEN ELECTRON STRUCTURE OF CA AND TRANSITION METALS OF THE BEGINNING OF THE FIRST PERIOD 67-04 M15-67914
CALCIUM, PHYSICAL PROPERTIES
THERMODYNAMICS OF THE REDUCTION OF CALCIUM FROM ITS OXIDE BY SILICOALUMINUM 67-02 M15-61719
CALCIUM, POWDER METALLURGY
SINTERING METAL CARBIDES UNDER PRESSURE 67-06 M09-70317
CALCIUM, REACTIONS /CHEMICAL/
INFLUENCE OF SURFACE TREATMENT ON THE OXIDATION KINETICS OF CALCIUM 67-09 M14-76457
CALCIUM, REDUCING AGENTS
STUDIES ON THE REDUCTION OF THORIA BY CALCIUM 67-09 M03-77254
CALCIUM, REDUCTION /CHEMICAL/
LOSSES OF REDUCING AGENT WHEN MG AND CA ARE PRODUCED BY THE SILICOTHERMAL METHOD 67-09 M03-77047
CALCIUM, REFINING
LOSSES OF REDUCING AGENT WHEN MG AND CA ARE PRODUCED BY THE SILICOTHERMAL METHOD 67-09 M03-77047
CALCIUM, VACUUM METALLURGY
METHOD FOR THE JOINT PRODUCTION OF CALCIUM AND LEAN FERROSILICON 67-02 M03-58887
CALCIUM BASE ALLOYS, MELTING
CARBOTHERMAL PRODUCTION OF LEAD-CALCIUM ALLOYS 67-02 M03-59574
CALCIUM COMPOUNDS, BENEFICIATION
THE STATE-OF-THE-ART TUNGSTEN AND SCHEELITE --CAWO4-- ORE DRESSING AT THE TUX PLANT AS PRACTICED BY OAMAG 67-07 M02-73728
CALCIUM COMPOUNDS, BINARY SYSTEMS
PHASE EQUILIBRIA IN THE SYSTEM CAO-YB2O3 67-04 M14-67324
CALCIUM COMPOUNDS, CRYSTAL LATTICES
RAMAN SPECTRA OF CAWO4, SRWO4, CAMOO AND SRMOO4 67-09 M13-77179
CALCIUM COMPOUNDS, CRYSTALLIZATION
DEFECT CHARACTERIZATION IN THE PRECIPITATION FROM CAO..YB2O3 CRYSTALLINE SOLUTIONS 67-06 M14-71166
CALCIUM COMPOUNDS, DIFFUSION
SELF-DIFFUSION OF CALCIUM IN SINGLE CRYSTAL CALCIUM OXIDE 67-07 M14-73636
CALCIUM COMPOUNDS, ELECTRICAL PROPERTIES
DIELECTRIC CONSTANTS OF PBWO4 AND CAWO4 67-09 M15-77459
CALCIUM COMPOUNDS, MECHANICAL PROPERTIES
THE VOIGT-REUSS-HILL APPROXIMATION AND ELASTIC MODULI OF POLYCRYSTALLINE MGO, CAF2, BETA-ZNS, ZNSE, AND CDTE 67-10 M17-79160
CALCIUM COMPOUNDS, OPTICAL PROPERTIES
FAR-INFRARED OPTICAL PROPERTIES OF CAF2, SRF2, BAF2 AND CDF2 67-09 M15-77178
CALCIUM COMPOUNDS, PHASE TRANSFORMATIONS
A FAMILY OF CAL2S4 COMPOUND FORMED BY RARE EARTH ELEMENTS BETWEEN HO AND LU 67-10 M14-79714
CALCIUM COMPOUNDS, POWDER METALLURGY
EFFECT OF ISOSTATIC PRESSURE ON SINTERING 67-10 M09-79433
CALCIUM COMPOUNDS, QUATERNARY SYSTEMS
STUDY OF THE LIQUIDUS TEMPERATURES OF THE SYSTEM CAO-P2O-SIO2-IRON OXIDE. PT. 1. 15 PER CENT FEO LEVEL 67-08 M13-76225
CALCIUM COMPOUNDS, REACTIONS /CHEMICAL/
THE EFFECTS OF THE REFRACTORY LINING ON METALLURGICAL REACTIONS IN CORELESS INDUCTION FURNACES 67-05 M04-69323
ON THE SOLUBILITY OF SODIUM-CALCIUM HYDROSILICATE IN ALKALIS AND ALUMINATE SOLUTIONS 67-08 M14-75018
CALCIUM COMPOUNDS, SLAGS
FORMS OF THE BONDING OF SULFUR IN BLAST FURNACE SLAGS 67-01 M04-57918
CALCIUM COMPOUNDS, TERNARY SYSTEMS
PHASE RELATIONS IN THE SYSTEM CAO-AL2O3-IRON OXIDE 67-10 M05-79601
CALCIUM COMPOUNDS, THERMAL PROPERTIES
THERMODYNAMICS OF THE INTERACTION OF ZRO2, MGO AND CAO WITH REFRACTORY METALS 67-12 M15-81741
CALENDERING, MATERIALS
PRODUCTION OF CALENDAR AND OTHER ROLLS FOR PAPERMAKING MACHINES 67-04 M06-68100
CALIFORNIUM, FUEL ELEMENTS
TRANSURANIC ELEMENTS AND THE HIGH-FLUX ISOTOPE REACTOR 67-09 M16-76487
CALORIFIC VALUE
PHYSICAL PROPERTIES OF STEELS 67-12 M15-82394
CALORIMETERS
DISSOLUTION CALORIMETER IN TIN AND APPLICATION TO THE STUDY OF CERTAIN ORDER-DISORDER TRANSFORMATIONS 67-04 M14-66047
ADIABATIC CALORIMETER TO MEASURE THE STORED ENERGY OF ALUMINUM AFTER NEUTRON IRRADIATION AT 4.6 K 67-05 M15-68337
IN-PILE CALORIMETRIC DOSIMETRY. PT. 1 67-05 M16-68648
DOUBLE MECHANICAL HEAT SWITCH FOR CALORIMETRY BELOW 1 K 67-06 M15-70552
A SIMPLE, LOW-CONTAMINATION PREPARATIVE TECHNIQUE FOR COMPOUNDS HAVING HIGH HEATS OF FORMATION, SUCH AS RARE-EARTH-GROUP VB COMPOUNDS 67-08 M15-75298
MEASUREMENT OF THE RATE OF HEAT RELEASE IN ALPHA-IRRADIATED AL BY MEANS OF A MICROCALORIMETER 67-08 M15-75648
RELATIVE ENTHALPY OF BERYLLIUM 1..1-ALUMINATE, BEO . AL2O3, FROM 273 TO 1173 K. THERMODYNAMIC PROPERTIES FROM 273 TO 2150 K 67-08 M15-75666
RELATIVE ENTHALPY OF BERYLLIUM 1..3-ALUMINATE, BEO . 3AL2O3, FROM 273 TO 1173 K. THERMODYNAMIC PROPERTIES FROM 273 TO 2150 K 67-08 M15-75667
LOW TEMPERATURE LIQUID-VAPOR DEFORMATION CALORIMETER 67-08 M15-76155
LOSSES OF SUPERCONDUCTING NIOBIUM IN LOW FREQUENCY FIELDS 67-08 M16-75654
MEASURED RELATIVE ENTHALPY OF ANHYDROUS CRYSTALLINE ALUMINUM TRIFLUORIDE, ALF3, FROM 273 11735. AND DERIVED THERMODYNAMIC PROPERTIES FROM 273 TO 1633K 67-09 M15-76415
DETERMINATION OF THE HEAT OF FORMATION OF INDIUM AND GALLIUM PHOSPHIDES BY COMBUSTION IN A CALORIMETER BOMB 67-11 M15-80162
PRECISION VACUUM-DROP CALORIMETER FOR MEASURING THERMODYNAMIC PROPERTIES OF MATERIALS UP TO 1500 C 67-11 M19-80542
CALORIMETRY
SEE CALORIMETERS
CALORIZING
CALORIZING OF NICKEL BY A CIRCULATORY METHOD 67-02 M12-61988
EFFECT OF CALORIZING ON FATIGUE AND CORROSION FATIGUE OF 45 CARBON STEEL 67-05 M18-69005
STRUCTURE AND CHEMICAL COMPOSITION OF CALORIZED LAYER DEPOSITED ON NI AND ITS ALLOYS 67-07 M14-74182
NEW TECHNIQUE OF CHEMICOTHERMAL TREATMENT OF TRANSITION METALS IN MOLTEN ALUMINUM 67-08 M12-74975
ALUMETIZING OF NICKEL BY THE CIRCULATION METHOD 67-10 M12-78845
EFFECT OF LIQUID CALORIZING ON THE TENSILE

CALORIZING
PROPERTIES OF STEEL-ALUMINUM WELDED TUBE 67-11 M17-80591
CAMERAS
DIFFRACTION PHOTOGRAPHY PICKS UP SPEED 67-04 M13-66108
HIGH TEMPERATURE METALLOGRAPHY 67-08 M13-75843
CAMS, MACHINING
FINE BLANKING REPLACES SIX STAMPING OPERATIONS 67-04 M08-68117
CAMS, SURFACE PROPERTIES
INFLUENCE OF TAPPET ROTATION ON CAM AND SURFACE DETERIORATION 67-07 M15-74250
CAMSHAFTS, CASTING
IMPROVING THE STRENGTH AND WEAR RESISTANCE OF CAM SHAFTS MADE OF NODULAR IRON 67-02 M06-59183
IMPROVING THE STRENGTH AND WEAR RESISTANCE OF NODULAR CAST IRON CAMSHAFTS 67-10 M06-78892
CAMSHAFTS, HEAT TREATMENT
HEAT TREATING MAGNESIUM CAST IRON WITH HIGH-FREQUENCY HEATING 67-12 M10-82621
A METHOD OF HEAT TREATING CAMSHAFTS 67-12 M10-83387
CAMSHAFTS, MACHINING
CAMSHAFT GRINDING BY NC 67-03 M08-65565
CAMSHAFTS, QUALITY CONTROL
PROGRAMMED DATA SPEEDS CAMSHAFT INSPECTION 67-07 M19-72806
CANISTERS
SEE CANS
CANNING /ENCAPSULATION/
SEE SHEATHING
CANS
NEW METAL SUBSTRATES FROM THE CAN MAKERS VIEWPOINT 67-01 M20-58799
TIN-FREE STEEL CANS RUN HOT AND COLD 67-06 M11-70500
CAN MAKING IN AUSTRALIA MATCHES WORLD STANDARDS 67-09 M08-76488
MANUFACTURE OF EXTRA-THIN SHEET IRON AT THE ZAPOROZHSTAL WORKS 67-10 M07-79811
CHROMIUM COATED STEEL FOR CONTAINER APPLICATIONS 67-12 M12-82649
CANS, COATING
HIGH SPEED OVEN UNIT DEVELOPED FOR CURING INSIDE COATINGS ON CANS 67-12 M10-82885
CANS, CORROSION
AEROSOL CANS MADE OF AL--THEIR CORROSION AND INTERNAL PROTECTIVE COATING 67-04 M18-68124
INTERNAL CAN CORROSION DUE TO HIGH NITRATE CONTENT OF CANNED VEGETABLES 67-07 M18-73000
CANS, METAL WORKING
FIVE-LINE TRANSFER PRESS MAKES 300 CANS A MINUTE 67-02 M08-59032
CANS, WELDING
A REVOLUTION IN CAN-MAKING--THE WIRED WHEEL 67-11 M11-81499
CANTILEVER BEAMS, MECHANICAL PROPERTIES
FATIGUE-CRACK-PROPAGATION RATES UNDER RANDOM EXCITATION 67-06 M17-71634
CAP SCREWS
BORON STEELS FOR FASTENERS 67-12 M20-81969
CAPACITANCE
TRANSIENT PHENOMENA IN THE CAPACITANCE OF GAAS SCHOTTKY BARRIER DIODES 67-02 M16-60519
INVESTIGATION OF SI-TA2O5 SYSTEM PREPARED BY REACTIVE SPUTTERING 67-02 M16-60521
COPPER DIFFUSED GALLIUM ARSENIDE P-N JUNCTIONS 67-04 M16-66119
OXIDE GROWTH AND CAPACITANCE ON PREIRRADIATED ZIRCALOY-2 AND ZIRCONIUM 67-05 M18-68617
NEGATIVE DIFFERENTIAL RESISTANCE AND INDUCTIVE EFFECTS IN SILICON CARBIDE 67-06 M16-71919
CONDUCTANCE AND CAPACITANCE OF 6 DEGREE TILT BOUNDARIES IN P-TYPE INSB 67-09 M16-77448
TRAP LEVELS IN GALLIUM ARSENIDE 67-10 M15-79122
CAPACITANCE, RADIATION EFFECTS
DECREASE OF BUILT-IN VOLTAGE IN TUNNEL DIODES CAUSED BY IRRADIATION 67-05 M16-69294
CAPACITANCE DISCHARGE WELDERS
SEE SPOT WELDERS
CAPACITOR DISCHARGE FORMING
SEE SPARK FORMING
CAPACITORS, DEPOSITION
TANTALUM OXIDE FILMS PREPARED BY OXYGEN PLASMA ANODIZATION AND REACTIVE SPUTTERING 67-09 M12-76750
CAPILLARITY
EFFECT OF SPECIFIC GRAVITY OF MOLTEN SLAG ON ITS RATE OF PENETRATION INTO POROUS REFRACTORIES 67-02 M05-61733
DIFFUSION CONSTANTS IN LIQUID LEAD-TIN ALLOYS 67-04 M14-66175
CAPPING
PREVENTION OF MOLYBDENUM ALLOY INGOT CRACKING BY CAPPING 67-01 M03-58462
STUDY OF THE AMOUNT AND SPREAD OF NONMETALLIC INCLUSIONS IN MECHANICALLY AND CHEMICALLY CAPPED RIMMING STEEL 67-09 M04-76894
CAPTURE /NUCLEAR/
THE V51 --N, GAMMA-- V52 REACTION 67-11 M16-80327
CARBIDE CUTTING TOOLS
SEE CARBIDE TOOLS
CARBIDE TOOLS
STUDY ON THE MACHINABILITY OF COLD FINISHED STEEL BARS 67-01 M08-58556
ROTATING CARBIDE INSERTS MACHINE TITANIUM FASTER 67-03 M08-65119
TOOL SELECTION FOR TOUGH ALLOYS 67-03 M08-65492
THE GRINDING AND LAPPING OF SINTERED HARD MATERIALS 67-03 M08-65707
EXPERIENCE WITH CARBIDE CUTTING TOOLS IN THE PROCESSING OF MAGNETIC CORE SHEETS 67-03 M08-65712
HIGH POSITIVE RAKE CUTTERS--BIDDING TO SOLVE YOUR PRODUCTIVITY PROBLEM 67-04 M08-67633
THE CUTTING TOOL 67-05 M08-68509
TORNETIC CONTROLS AND BUR-POINT GEOMETRY SOLVE PROBLEM OF DRILLING BERYLLIUM SHEET 67-05 M08-69589
CARBIDES FOR SCREW MACHINES. TESTS ON FREE-CUTTING STEELS. PT. 1 67-05 M18-69797
PLUNGE CUT GRINDING OF TUNGSTEN CARBIDE WITH DIAMOND CUP WHEELS 67-06 M08-71184
CARBIDES FOR SCREW MACHINES--TESTS ON FREE-CUTTING STEELS. PT. 2 67-07 M08-72744
THE CREEP-FEED PLUNGE GRINDING OF TUNGSTEN CARBIDE WITH DIAMOND CUP WHEELS 67-07 M08-73075
MACHINING OF CAST HIGH ALLOYS. PT. 2. CARBIDE TOOLING 67-08 M08-76190
METALWORKINGS GUIDE TO CARBIDE AND HIGH-SPEED-STEEL CUTTING TOOLS 67-09 M08-76744
THE RELATIONSHIP BETWEEN CUTTING GEOMETRY, TOOL WEAR AND SURFACE QUALITY IN THE PEELING OF STEEL BARS WITH CARBIDE TOOLS. PT. 1 67-09 M08-78280
RELATIONSHIP BETWEEN CUTTING GEOMETRY, TOOL WEAR AND SURFACE QUALITY IN THE PEELING OF STEEL BARS WITH CARBIDE TOOLS. PT. 2. EFFECT OF VARIABLE PROCESSING CONDITIONS ON TOOL WEAR 67-09 M08-78281
RELATIONSHIP BETWEEN CUTTING GEOMETRY, TOOL WEAR AND SURFACE QUALITY IN THE PEELING OF STEEL BARS WITH CARBIDE TOOLS. PT. 3. EFFECT OF PEELING AND STRAIGHTENING CONDITIONS ON THE SURFACE OF BRIGHT BARS.. RELATIONSHIP BETWEEN TOOL WEAR AND SURFACE QUALITY 67-09 M08-78282
THE ECONOMICS OF COLLECTING AND APPLYING MACHINING DATA TO CARBIDE TOOLS--AN ENGINEERING APPROACH 67-10 M08-79510
BASIC INVESTIGATION OF BUILT-UP EDGE 67-10 M08-79880
CARBIDE AND CERAMIC INSERTS 67-10 M20-79300
TITANIUM CARBIDE OPENS NEW ERA IN CUTTING TOOLS 67-12 M17-82648
CARBIDE TOOLS, BRAZING
TWO NEW BREAKS FOR CARBIDES 67-04 M20-67767
CARBIDE TOOLS, CORROSION
WEAR AND OXIDATION PHENOMENA ON THE END CUTTING EDGE OF CARBIDE TURNING TOOLS 67-08 M18-75574
CARBIDE TOOLS, ELECTROLYTIC GRINDING
INVESTIGATION OF THE ELECTROLYTIC VERTICAL PLANE GRINDING OF CARBIDE TOOLS 67-06 M08-70451
CARBIDE TOOLS, MACHINING
GRINDING WITH DIAMONDS--RESEARCH, PRODUCTION RESULTS 67-02 M08-60242
EDG--PRECISION FORM GRINDING IN CARBIDE 67-03 M08-65401
THE EFFECT OF TOOLS AND WORKING CONDITIONS ON THE BOUNDARY ZONES OF HARDENED STEELS AND CARBIDES WITH CONVENTIONAL AND ELECTROLYTIC GRINDING 67-06 M08-70045
ELECTROLYTIC CONTOUR GRINDING 67-07 M08-72430
METALWORKING 67-08 M07-75497
THE GRINDING OF CARBIDE-TIPPED MACHINING TOOLS

--TURNING TOOLS-- 67-10 M08-78790
THE PRECISION WORKING OF CARBIDE CUTTING TOOLS BY ELECTROEROSION 67-10 M08-79955
TURNING WITH CARBIDE TOOLS ON SINGLE SPINDLE AUTOMATIC LATHES 67-11 M08-80397
ELECTROCHEMICAL MACHINING OF IRREGULAR HARD ALLOY TOOLS 67-12 M08-81906
ELECTROCHEMICAL GRINDING OF HARD METALS 67-12 M08-82774

CARBIDE TOOLS, MATERIALS
DIAMOND TOOLS CUT GIANTS DOWN TO SIZE 67-11 M08-80516

CARBIDE TOOLS, MECHANICAL PROPERTIES
TOOL WEAR IN THE MACHINING OF STEEL MATERIALS 67-02 M17-59616
POSSIBLE APPLICATIONS FOR HIGHLY WEAR-RESISTANT CUTTING MATERIALS 67-02 M17-59617
CARBIDE TOOL SELECTION--A DECISION IN ECONOMICS 67-10 M08-79509
TECHNOLOGY OF ADVANCED CUTTING TOOL MATERIALS 67-11 M17-80294
THE MECHANISM OF FLANK WEAR IN CARBIDE TOOLS 67-12 M17-82773

CARBIDE TOOLS, OXIDATION
THE EFFECT OF THE TITANIUM CARBIDE CONTENT OF CEMENTED WC-TIC CUTTING TOOLS IN THE MACHINING OF STEELS AND CAST IRONS 67-12 M08-81854

CARBIDE TOOLS, THERMAL PROPERTIES
MEASUREMENT OF CYCLIC TEMPERATURE CHANGE OF TOOL-CHIP INTERFACE IN CARBIDE FLY MILLING 67-06 M08-72265

CARBIDES
SEE ALSO IRON CARBIDES
METAL CARBIDES
SILICON CARBIDE
TITANIUM CARBIDE
TUNGSTEN CARBIDE
URANIUM CARBIDE
STRUCTURES AND STRENGTH OF AUSFORMED STEEL 67-06 M13-71085
CARBIDES IN THE FE-CR-V-C SYSTEM 67-06 M13-71115
CRYSTAL STRUCTURAL RELATIONSHIPS BETWEEN AUSTENITE AND CARBIDE PHASES IN AGED, AUSTENITIC STEEL 67-06 M13-72348
CARBIDE NETWORKS ON ROLLER BEARING STEEL AND MEASURES FOR COMBATING THEM 67-07 M14-74147
SELECTIVE ISOLATION OF INTERMETALLIC AND CARBIDE PHASES PRESENT IN A NI-CR-TI-AL-C ALLOY 67-08 M13-75963
INFLUENCE OF THE CARBIDE PHASE ON THE PROPERTIES OF TRANSFORMER STEEL 67-08 M15-74988
THE AMOUNT AND LOCAL DISTRIBUTION OF CARBIDES IN TOOL STEELS 67-10 M13-79065
THE DIFFERENTIATION OF IRON AND CHROMIUM CARBIDES THROUGH ETCHING 67-10 M13-79066
CARBIDE SEGREGATION AND NONMETALLIC INCLUSIONS IN LOW-ALLOY STEELS 67-11 M19-81607

CARBIDES, ALLOYING ADDITIVE
COMPARISON BETWEEN COLUMBIUM CARBIDE AND FERROCOLUMBIUM AS ADDITIONS TO COLUMBIUM-ALLOYED STEELS 67-06 M04-72298
INFLUENCES OF CARBIDES ON THE PROPERTIES OF ALUMINUM AND ITS ALLOYS. PT. 1. EFFECTS OF TIC, TIC-WC, TAC-WC AND WC ON REFINING OF THE GRAIN SIZE OF PURE ALUMINUM 67-08 M14-75372

CARBIDES, ATOMIC PROPERTIES
ELECTRONIC BAND STRUCTURES OF PLUTONIUM AND ITS MONOCARBIDE 67-09 M16-76317
N. M. R. INVESTIGATION OF THE ATOMIC AND ELECTRONIC STRUCTURE OF VANADIUM AND NIOBIUM CARBIDES 67-10 M16-79117

CARBIDES, BAND THEORY
X-RAY SPECTRA, ELECTRON STRUCTURE AND PROPERTIES OF TITANIUM METALLIC COMPOUNDS 67-04 M16-67372

CARBIDES, BINARY SYSTEMS
CONTRIBUTION TO THE STUDY OF GRAIN ORIENTATION IN COLUMNS OF POWDER AND SINTERED PARTS UNDER THE EFFECT OF INTERMEDIATE LAYERS 67-06 M09-71754

CARBIDES, CASTING
SLIP CASTING OF NIOBIUM CARBIDE 67-12 M09-82205

CARBIDES, CERAMICS
HEAT RESISTANT CERAMIC MATERIALS 67-06 M05-70225

CARBIDES, CHEMICAL ANALYSIS
INVESTIGATION OF CARBIDES IN TEMPERED HIGH-CARBON STEELS 67-04 M13-66006
MICROANALYTICAL STUDIES OF CARBIDES AND INTERMETALLIC PHASES 67-07 M19-73256

CARBIDES, CHEMICAL BONDS
NATURE OF THE CHEMICAL BOND IN THE CARBIDES AND NITRIDES OF TRANSITION METALS 67-02 M16-61671

CARBIDES, COATINGS
PERCUSSION WELD SURFACING--A NEW APPROACH FOR CARBIDE COATING OF TOOLS AND DIES 67-01 M12-58689
FLAME-SPRAYED COATINGS 67-09 M12-76699
INVESTIGATION OF REDUCTION OF TICL4 BY HYDROGEN ON GRAPHITE SUBSTRATE 67-10 M12-79134

CARBIDES, CORROSION
OXIDATION-RESISTANT HARD MATERIALS 67-06 M18-70080
APPLICATION OF REFRACTORY COMPOUNDS IN PRODUCTION OF CHLORINE AND CAUSTIC 67-10 M18-79342

CARBIDES, CRUCIBLE FURNACES
POWDER METALLURGY CRUCIBLE MATERIALS FOR THE MELTING AND EVAPORATION OF METALS 67-11 M09-80340

CARBIDES, CRYSTAL GROWTH
PYROLYTIC MATERIALS 67-02 M14-60711
GENERATION OF A TWO-DIMENSIONAL SILICON CARBIDE LATTICE 67-06 M14-71428
INVESTIGATION OF SINTERING OF LOOSE POWDERS OF TIC AND ZRC 67-12 M09-83552

CARBIDES, CRYSTAL LATTICES
STRUCTURAL STUDIES OF THE CARBIDES --FE,MN--3C AND --FE,MN--5C2 67-01 M13-57421
DISLOCATION ETCH PITS AND PHASE RELATIONSHIPS IN DIMOLYBDENUM CARBIDE SINGLE CRYSTALS 67-02 M13-59068
FIRM SEEKS GREATER KNOWLEDGE OF CARBIDES 67-04 M14-66337
PEROWSKITE CARBIDES WITH RARE-EARTH METALS 67-04 M16-66911
LOWER-TEMPERATURE MODIFICATIONS OF NB2C AND V2C 67-09 M13-76400
SOME ADVANCES IN THE STRUCTURAL CHEMISTRY OF ALLOYS --T-X AND T-M-X PHASES-- 67-10 M13-78705
THE STRUCTURE AND EVOLUTION OF CRYSTALLINE PARAMETERS IN THE SOLID SOLUTION --CR,FE--7C3 67-10 M13-79587
THE CRYSTAL STRUCTURE OF THE SUBCARBIDES OF TRANSITION METALS 67-10 M13-79922

CARBIDES, CRYSTAL STRUCTURE
NEW PEROWSKIT-CARBIDES 67-10 M13-79582

CARBIDES, CRYSTALLIZATION
TRANSITION CARBIDES OBSERVED IN FORMATION OF GRAPHITE IN GRAY IRON 67-04 M14-67748

CARBIDES, DEFORMATION
PLASTIC DEFORMATION AND RECRYSTALLIZATION OF REFRACTORY COMPOUNDS 67-06 M09-71461

CARBIDES, DIES
NEW USES FOR MACHINABLE CARBIDES 67-10 M08-79777

CARBIDES, DIFFUSION
THE FORMATION, STABILITY AND INFLUENCE OF CARBIDE DISPERSIONS IN CHROMIUM 67-04 M14-66158
DIFFUSION OF MASSIVE CARBIDES IN BEARING STEELS BY SOAKING 67-04 M14-67183
THE DIFFUSION OF CARBON IN TANTALUM MONOCARBIDE 67-06 M14-71614
REACTION DIFFUSION OF CARBON IN THE ME-C SYSTEM 67-06 M14-72342
DIFFUSION OF CARBON IN VANADIUM CARBIDES AND TITANIUM CARBIDES 67-08 M14-74314
THE RATES OF DIFFUSION AND COAGULATION OF CARBIDES IN CHROMIUM STEELS EXPOSED TO ELEVATED TEMPERATURES FOR LONG PERIODS 67-12 M14-82154
INTERGRANULAR DIFFUSION OF IRON IN AUSTENITIC STEELS CONTAINING BORON 67-12 M14-82592

CARBIDES, ELECTRICAL PROPERTIES
SUPERCONDUCTING CRITICAL TEMPERATURES OF NONSTOICHIOMETRIC TRANSITION METAL CARBIDES AND NITRIDES 67-02 M16-60627
SOME ELECTROPHYSICAL PROPERTIES OF NIOBIUM AND ZIRCONIUM CARBIDES IN THEIR HOMOGENEOUS REGIONS 67-06 M15-72041
WORK FUNCTION OF METALS 67-06 M16-70492
CHARACTER OF INTERACTION OF ZIRCONIUM CARBIDE WITH CESIUM VAPOR 67-09 M16-76764

CARBIDES, ETCHING
DISTINGUISHING BETWEEN IRON CARBIDE AND IRON PHOSPHIDE BY ETCHING 67-01 M13-57385

CARBIDES, FILAMENTS

CARBIDES

HIGH MODULUS FILAMENTS FOR METAL MATRIX REINFORCEMENTS 67-05 M09-68904
CARBIDES, HEATING EFFECTS
INFLUENCE OF THERMAL AND ULTRASONIC TREATMENT ON CARBIDE FORMATION DURING ANNEALING OF QUENCHED U12 CARBON TOOL STEEL 67-09 M14-77367
CARBIDES, INCLUSIONS
CASTINGS FROM NONMAGNETIC IRON CONTAINING 2 PER CENT NI 67-04 M15-66414
CARBIDES, LATTICE PARAMETERS
MICRODIFFRACTION OF ELECTRONS APPLIED TO METALLOGRAPHY 67-01 M13-58127
CARBIDES, MACHINING
WHICH DIAMOND WHEEL FOR SPACE AGE CERAMICS 67-06 M08-72029
NEW POLISHING MATERIALS FOR PROCESSING OF SINGLE CRYSTALS 67-06 M12-72324
THE CREEP-FEED PLUNGE GRINDING OF TUNGSTEN CARBIDE WITH DIAMOND CUP WHEELS 67-07 M08-73075
ECDM A REVOLUTION IN GRINDING TECHNIQUE 67-07 M08-74102
ECDM--A NEW DIMENSION IN GRINDING 67-07 M08-74258
SINGLE-LAYER WHEEL CUTS CARBIDE 67-07 M08-74295
EDM TECHNIQUES FOR MACHINABLE CARBIDES 67-08 M08-75942
DIAMONDS IN METAL PROCESSING 67-09 M08-76674
CARBIDES, MAGNETIC PROPERTIES
MAGNETIC STRUCTURES OF TBC2 AND HOC2 67-01 M16-58639
INVESTIGATION OF THE STRUCTURAL AND MAGNETIC CHEMISTRY OF COMPLEX CARBIDES 67-05 M15-68614
COMPOUNDS AND OXIDES. PT. 3. THE MAGNETIC SUSCEPTIBILITY OF NEPTUNIUM OXIDE AND CARBIDE BETWEEN 4.2 AND 350 K 67-07 M15-73599
CARBIDES, MECHANICAL PROPERTIES
LOW-TEMPERATURE ELASTIC PROPERTIES OF ZRC AND TIC 67-01 M17-57116
CERAMIC PARTS 67-02 M05-61100
MICROHARDNESS ANISOTROPY, SLIP, AND TWINNING IN MO2C SINGLE CRYSTALS 67-02 M17-59437
REVIEW OF SELECTED PROPERTY DATA 67-02 M17-60715
YOUNGS MODULUS OF CARBIDES OF SOME TRANSITION METALS 67-02 M17-61712
STUDY OF MATERIAL FOR UNLUBRICATED ROLLING PARTS FOR HIGH-TEMPERATURE SERVICE 67-02 M17-61998
ELASTIC PROPERTIES OF ZIRCONIUM CARBIDE 67-03 M17-65385
YOUNGS MODULI OF THE CARBIDES OF SOME TRANSITION METALS 67-08 M17-75857
DEFORMATION OF POLYCRYSTALLINE TRANSITION METAL CARBIDES 67-09 M17-76399
HOT HARDNESS OF SELECTED BORIDES, OXIDES AND CARBIDES TO 1900 C 67-09 M17-76752
DEVELOPMENT OF ADVANCED CERAMIC CUTTING TOOLS 67-12 M17-82947
CARBIDES, METALLOGRAPHY
SEPARATION OF INTERMETALLIC PHASE AND CARBIDE PHASE IN NI-CR-TI-AL-C ALLOY 67-02 M13-62187
HOW TO DISTINGUISH IRON CARBIDE FROM IRON NITRIDES BY ETCHING 67-07 M13-72677
CARBIDES, MICROSTRUCTURE
INVESTIGATION OF THE STRUCTURE OF THE CASE HARDENED LAYER OF 20KHGVT AND 20KHGSVT NICKEL-LESS STEELS 67-04 M13-66625
SEPARATION OF CARBIDES BY DISSOLVING STEEL IN NITRIC ACID 67-10 M13-79059
CARBIDES, MOTION
THEORETICAL ANALYSIS ON THE DILATOMETER CURVES OF CAST IRON 67-06 M14-70585
CARBIDES, NONDESTRUCTIVE TESTING
DETERMINATION OF URANIUM SURFACE-CONCENTRATION OF COATED PARTICLES 67-01 M16-58232
CARBIDES, OPTICAL PROPERTIES
OPTICAL STUDIES OF BETA-SIC 67-11 M15-80614
CARBIDES, OXIDATION
STABILITY OF SOME REFRACTORY MATERIALS IN CRYOLITE-ALUMINA MELTS 67-05 M03-68959
CORROSION OF COLUMBIUM CARBIDE AT HIGH TEMPERATURE IN THE MEDIUM OF COMMERCIALLY PURE INERT GASES 67-07 M18-73656
OXIDATION KINETICS OF TUNGSTEN CARBIDE 67-10 M03-79136
CARBIDES, PHASE TRANSFORMATIONS
ELECTRON DIFFRACTION AND ELECTRON MICROSCOPE ANALYSIS OF THE CARBIDES IN VACUUM-CONDENSED IRON-CARBON FILMS 67-05 M14-68837
CARBIDES, PHASES /STATE OF MATTER/
STUDY OF THE CARBIDE COMPONENT IN THE STRUCTURE OF LOW-CARBON FERROCHROMIUM PRODUCED UNDER INDUSTRIAL CONDITIONS 67-02 M13-59694
X-RAY MICROGRAPHY OF CARBIDE PHASES IN STEELS 67-02 M13-60098
PHASE CHEMICAL ANALYSIS OF ALLOYS OF THE ZRO2-ZRC AND ZRO2-TIC SYSTEM 67-06 M14-69995
ISOLATION OF THE ZETA PHASE IN THE SYSTEM TANTALUM-CARBON 67-06 M14-71168
STACKING FAULTS IN A NON-STOICHIOMETRIC FACE-CENTERED CUBIC TAC 67-12 M13-82001
THE CARBIDE PHASES IN MAR-M200 67-12 M13-82562
CARBIDES, PHYSICAL PROPERTIES
MODERN CERAMICS--SOME PRINCIPLES AND CONCEPTS 67-02 M05-60701
ELECTRONIC EXCHANGE AND THE MOSSBAUER EFFECT IN IRON-BASED INTERSTITIAL COMPOUNDS 67-03 M16-65718
SOME PHYSICAL PROPERTIES OF NIOBIUM MONOCARBIDE IN THE HOMOGENEITY REGION 67-04 M15-67860
STUDY OF THE PERMEABILITY OF POROUS MATERIALS OF REFRACTORY COMPOUNDS 67-05 M09-68703
MELTING POINTS OF ZRC-HFC, TAC-ZRC AND TAC-HFC SYSTEMS 67-05 M15-68710
SOME PROPERTIES OF PYROLYTIC CARBIDES AND NITRIDES OF GROUP 4 METALS 67-06 M15-71471
SOME PHYSICAL PROPERTIES OF ALLOYS OF THE ZRC-NBC AND TAC-HFC SYSTEMS 67-06 M15-71472
ENGINEERING PROPERTIES OF SELECTED CERAMIC MATERIALS 67-07 M05-73875
ELECTRICAL RESISTIVITY, MAGNETIC SUSCEPTIBILITY, AND THERMAL EXPANSION OF THORIUM MONOCARBIDE 67-07 M15-74239
PHYSICAL PROPERTIES OF SOLID SOLUTIONS IN THE SYSTEM C8C-MO3C2 67-08 M15-74312
PREPARATION AND STUDIES OF SOME PROPERTIES OF PLUTONIUM MONOCARBIDES 67-09 M15-76344
NONFUEL REFRACTORIES 67-11 M05-80475
KNUDSEN CELL STUDIES OF THE VAPORIZATION OF GADOLINIUM AND GADOLINIUM DICARBIDE 67-11 M15-81555
PERMEABILITY OF POROUS MATERIALS FROM REFRACTORY COMPOUNDS 67-12 M09-82679
MELTING POINT IN SYSTEMS ZRC-HFC, TAC-ZRC, TAC-HFC 67-12 M15-82686
SOME PROPERTIES OF PYROLYTIC CARBIDES AND NITRIDES OF GROUP 4 METALS 67-12 M15-82792
SOME PHYSICAL PROPERTIES OF ALLOYS OF THE SYSTEMS ZRC-NBC AND TAC-HFC 67-12 M15-82793
OBTAINING AND INVESTIGATING CERTAIN PHYSICAL PROPERTIES OF HFC-MOC AND TAC-MOC SOLID SOLUTIONS 67-12 M15-83359
MOSSBAUER STUDY OF THE FE-MN CARBIDES --FE1-XMNX--3C AND --FE1.1MN3.9--C2 67-12 M16-82005
CARBIDES, POWDER METALLURGY
SINTERING METAL CARBIDES UNDER PRESSURE 67-06 M09-70317
MECHANICAL PROPERTIES OF MATERIALS BASED ON SIC AND SI3N4 67-06 M09-70775
RELATIONSHIP BETWEEN MICROHARDNESS AND MICROBRITTLENESS OF REFRACTORY COMPOUNDS AND THEIR ELECTRON STRUCTURE 67-07 M09-72513
REFRACTORY PLUTONIUM FUEL MATERIALS 67-09 M09-76338
PREPARATION OF POWDERS ON PLANETARY MILL 67-10 M09-79339
LARGE PARTS OF REFRACTORY CARBIDES 67-10 M09-79580
CORRELATION OF MICROHARDNESS AND MICROBRITTLENESS OF REFRACTORY COMPOUNDS WITH THEIR ELECTRIC STRUCTURE 67-11 M09-80899
PLASTIC DEFORMATION AND RECRYSTALLIZATION OF REFRACTORY COMPOUNDS 67-12 M09-82782
CARBIDES, PRECIPITATES
BEHAVIOR OF CHANGES OF PRECIPITATE OF NI-BASE HEAT RESISTING NO. 64BC ALLOY 67-04 M14-67567
CARBIDES, PRECIPITATION
THE TWO-STAGE PRECIPITATION OF CARBON FROM FERRITE 67-01 M14-58460
PHASE REACTIONS IN B-1900 NICKEL-BASE ALLOY FROM 1600 TO 1800 F 67-01 M14-58467
HEAT TREATMENT AND CORROSION RESISTANCE OF AUSTENITIC TYPE 304 STAINLESS STEEL 67-01 M18-58470
ON THE CONCENTRATING PROCESS OF THE ALLOYING ELEMENT INTO CEMENTITE DURING THE TEMPERING OF STEEL 67-02 M10-59123

EFFECT OF THE HOLDING TIME DURING TEMPERING OF 18-8 STAINLESS STEEL ON THE DEVELOPMENT OF THE CHROMIUM-DEPLETED ZONE 67-02 M10-59577
MICROSTRUCTURE OF PRECIPITATION STRENGTHENED NICKEL-BASE SUPERALLOYS 67-02 M13-61103
EFFECT OF LONG-TIME STRESS ON CARBIDE COAGULATION IN CARBON STEEL 67-02 M14-58868
CARBIDE REACTIONS IN THE HEAT TREATMENT OF HARD FACED HIGH-SPEED STEEL 67-02 M14-61752
HIGH-STRENGTH PRECIPITATION-HARDENED CONSTRUCTIONAL STEELS 67-02 M17-60692
THE SHAPE AND MECHANISM OF FORMATION OF M23C6 CARBIDE IN AUSTENITE 67-04 M14-66540
PRECIPITATION OF CARBIDES IN ALLOY STEELS 67-04 M14-67546
STUDY OF FRACTURE SURFACES IN CR18NI9TI TYPE STAINLESS STEELS 67-04 M17-67850
STUDY OF THE MECHANICAL PROPERTIES OF SILICON-CONTAINING FERRITE. THE INFLUENCE OF CARBON 67-05 M17-69112
THE EFFECT OF TWO-STEP SOLUTION TREATMENT ON THE CREEP RUPTURE PROPERTIES OF A HIGH-CARBON 18CR-12NI STAINLESS STEEL 67-05 M17-69858
INTERACTION OF DISLOCATIONS AND PRECIPITATES IN QUENCH-AGED IRON-CARBON ALLOYS SUBJECTED TO CYCLIC STRESSING 67-06 M14-70420
THE MOVEMENT OF SOLID PARTICLES IN A SOLID 67-06 M14-70436
INVESTIGATION OF CARBIDE FORMING DURING PEARLITIC DECOMPOSITION OF AUSTENITIC VANADIUM STEEL 67-06 M14-72364
FORMATION OF TUNGSTEN CARBIDE IN COMMERCIAL LOW-TUNGSTEN TOOL STEELS 67-09 M14-78225
STRUCTURAL CHANGES AND THEIR EFFECT ON THE CREEP RUPTURE STRENGTH OF CHROMIUM-MOLYBDENUM STEEL 67-09 M17-77196

CARBIDES, RADIATION EFFECTS
INFLUENCE OF NUCLEAR RADIATION ON PROPERTIES OF REFRACTORY COMPOUNDS 67-05 M16-69004
EFFECT OF NEUTRON IRRADIATION ON THE PROPERTIES OF TITANIUM AND CHROMIUM CARBIDES 67-09 M16-76927

CARBIDES, REACTIONS /CHEMICAL/
GROUP IVB AND VB METAL CARBIDE-CARBON EUTECTIC TEMPERATURES 67-02 M05-61089
CARBOTHERMIC REDUCTION OF SILICA 67-04 M14-67558
THE NATURE OF THE INTERACTION OF ZIRCONIUM DIOXIDE WITH TITANIUM, NIOBIUM AND CHROMIUM CARBIDES 67-06 M14-71101
PREPARATION OF THORIUM CARBIDES 67-09 M14-76753
THE INTERACTION OF TITANIUM CARBIDE AND WATER 67-10 M14-79347
THE ACTION OF ALKALI ON TRANSITION-METAL CARBIDES 67-10 M14-79602

CARBIDES, SINTERING
INVESTIGATION OF SINTERING AND PROPERTIES OF SOLID SOLUTIONS OF TIC AND ZRC CARBIDES WITH NBC 67-08 M09-74306

CARBIDES, SOLUBILITY
CONNECTION OF SOLUBILITY AND PROPERTIES OF SOLID SOLUTIONS IN BINARY SYSTEMS OF CARBIDES WITH EXCESS FREE ENERGY OF MIXING 67-06 M13-72332

CARBIDES, SUPERCONDUCTIVITY
PREPARATION OF TIC-WC AND NBC-WC SOLID SOLUTIONS AND INVESTIGATION OF THEIR SUPERCONDUCTIVITY 67-10 M09-79341
HIGH SUPERCONDUCTING TRANSITION TEMPERATURES IN THE MOLYBDENUM CARBIDE FAMILY OF COMPOUNDS 67-11 M16-80317

CARBIDES, SYNTHESIS
PRODUCTION OF CRYSTALLINE BORON CARBIDE FROM THE GASEOUS PHASE 67-09 M05-76713
PRODUCTION OF DICARBIDES OF GD, TB, DY, ER, TM AND LU 67-12 M09-83557

CARBIDES, TERNARY SYSTEMS
THE CRYSTALLINE STRUCTURE OF V2C 67-04 M16-66912

CARBIDES, THERMAL PROPERTIES
A STUDY OF UC1-XOX. PT. 3 67-07 M15-74013
IMPREGNATED TANTALUM CARBIDE 67-11 M05-80249
CALCULATION OF THE REDUCED THERMODYNAMIC POTENTIALS OF SOME CARBIDES AND NITRIDES 67-12 M09-82787

CARBIDES, THERMODYNAMICS
REVIEW OF THE SCIENCE OF CERAMIC MATERIALS 67-02 M05-60702
THERMODYNAMIC PROPERTIES OF ZIRCONIUM AND HAFNIUM CARBIDES OVER THE RANGE 298 TO 2500 K 67-05 M15-68706
CALCULATION OF THERMODYNAMIC PROPERTIES OF SOME CARBIDES AND NITRIDES 67-06 M09-71466
CALCULATION OF HEAT CAPACITY OF REFRACTORY COMPOUNDS 67-06 M15-72330
THERMODYNAMIC PROPERTIES AND NONSTOICHIOMETRY OF OF THORIUM DICARBIDE 67-07 M15-74227
THERMODYNAMIC PROPERTIES AND NONSTOICHIOMETRY OF THORIUM MONOCARBIDE 67-07 M15-74228
THERMODYNAMIC CALCULATION OF EQUILIBRIA IN THE SYSTEM CARBIDE-OXYGEN 67-08 M15-74310
ENTHALPY AND THERMAL CAPACITY OF NIOBIUM AND ZIRCONIUM CARBIDES AT 500 TO 2400 K 67-09 M15-76765
THE THERMODYNAMICS OF THE CARBIDE REACTION IN CR18NI9 STAINLESS CHROMIUM-NICKEL STEEL 67-10 M15-79736
THERMODYNAMIC PROPERTIES OF ZIRCONIUM AND HAFNIUM CARBIDES IN THE RANGE 298-2500 K 67-12 M15-82682

CARBIDES, THIN FILMS
ELECTRON-BEAM DEPOSITION OF MOLYBDENUM CARBIDE FILMS FROM MOLYBDENUM HEXACARBONYL 67-10 M15-79446
INVESTIGATION OF THE DEPOSITION OF MOLYBDENUM CARBIDE FILMS FROM MOLYBDENUM HEXACARBONYL USING AN ELECTRON BEAM 67-11 M12-81052

CARBIDES, THREADS /FILAMENTS/
BORON CARBIDE FILAMENTS FROM ORGANOBORANES 67-07 M09-73350

CARBIDES, TRANSPORT PROPERTIES
HEAT CONDUCTIVITY OF SILICON CARBIDE AT HIGH TEMPERATURES 67-06 M15-71465
ON THE NATURE OF HEAT CONDUCTIVITY OF CARBIDES OF SOME TRANSITION METALS OF GROUPS 4 AND 5 67-06 M15-71470
VACUUM THERMIONIC WORK FUNCTIONS AND THERMAL STABILITY OF TAB2, ZRC, MO2C, MOSI2, TASI2 AND WSI2 67-08 M16-75125
NATURE OF THE THERMAL CONDUCTIVITY IN THE CARBIDES OF SOME TRANSITION METALS OF GROUPS 4 AND 5 67-12 M15-82791

CARBIDES, X RAY ANALYSIS
PREPARATION AND STUDY OF RHOMBIC IRON CARBIDE 67-02 M13-62177
PREPARATION AND STUDY OF RHOMBIC IRON CARBIDE 67-08 M13-75953
RADIOGRAPHIC EXAMINATION OF CREEP AND ANNEALING SPECIMENS OF STEEL 10 CRMO 9 10 67-11 M14-81377

CARBIDES, X RAY DIFFRACTION
THE CRYSTAL STRUCTURES OF CR3 --C, N-- AND CR2VC2 67-05 M13-68486

CARBON
THEORETICAL AND EXPERIMENTAL INVESTIGATION OF FORCES AND TORQUE IN ROLL-STRAIGHTENING OF ROLLED MATERIAL 67-07 M07-73227
CARBON AND GRAPHITE MATERIALS FOR SEALS, BEARINGS, AND BRUSHES 67-09 M20-77136

CARBON, ACTIVITY /CHEMICAL/
CARBON ACTIVITY IN THE GAMMA AND ALPHA RANGES OF FE-C-SI ALLOYS 67-08 M15-75678

CARBON, ALLOYING ADDITIVE
STUDY ON TRANSFORMATION FEATURES OF CARBURIZING CR-MO STEELS 67-01 M14-58309
THE EFFECT OF CARBON ON THE PROPERTIES OF 25CR-20NI HEAT RESISTING STEEL 67-01 M17-58241
ESTABLISHMENT OF DIAGRAMS OF STRUCTURES OF CHROMIUM AND TUNGSTEN STEELS ON THE BASIS OF THE EXTENT IN SPACE OF THE AUSTENITE DOMAIN IN THE TERNARY ALLOYS IRON---CHROMIUM OR TUNGSTEN---CARBON 67-02 M13-58928
EFFECTS OF ORIENTATION AND CARBON ON THE MECHANICAL PROPERTIES OF IRON SINGLE CRYSTALS 67-02 M17-58949
THE EFFECT OF CALCIUM, SILICON, MANGANESE AND CHROMIUM ON THE MECHANICAL PROPERTIES OF FLASH BUTT WELDS 67-02 M17-59110
SOME PROPERTIES OF WC-20 PER CENT CO AND WC-5 PER CENT TAC-20 PER CENT CO ALLOYS 67-02 M17-60151
INFLUENCE OF CHEMICAL COMPOSITION ON THE ANISOTROPY OF THE IMPACT STRENGTH OF SOME CASE-HARDENING STEELS 67-02 M17-62065
EFFECTS OF THE CARBON CONTENT ON THE PROPERTIES OF WC-TIC-CO ALLOYS 67-03 M14-65846
EFFECT OF THE CARBON AND MANGANESE CONCENTRATIONS

CARBON

ON THE PROPERTIES OF LOW-ALLOYED STEEL CONTAINING SMALL AMOUNTS OF NIOBIUM 67-04 M17-67958
INFLUENCE OF CARBON, SILICON AND BORON ON HOT TEARING IN WHITE CAST IRON 67-05 M06-68951
DUCTILITY OF SINTERED UNWORKED MOLYBDENUM-CARBON ALLOYS 67-07 M17-73401
INFLUENCE OF CARBON IN MAGNICO ALLOYS 67-08 M14-74991
ELECTRICAL RESISTIVITY OF CARBON COMPOSITE SINTERED MATERIALS. PT. 8. EFFECTS OF CARBON MATERIALS ON RESISTIVITY 67-08 M15-75306
TORSIONAL DUCTILITY AND STRENGTH OF IRON-CARBON ALLOYS AT ELEVATED TEMPERATURE 67-08 M17-75975
EFFECT OF CARBON ON THE STRUCTURE AND TENSILE PROPERTIES OF NIOBIUM AND ITS ALLOYS 67-09 M17-77290
EFFECT OF TITANIUM, ZIRCONIUM, AND HAFNIUM ON THE PROPERTIES OF MOLYBDENUM ALLOYED WITH CARBON 67-11 M17-80991
THE EFFECT OF NOBLE METAL ADDITIONS ON THE TOUGHNESS OF IRON-CARBON ALLOYS 67-12 M17-82760

CARBON, BAKING
AUTOCLAVE BAKING OF CARBON-GRAPHITE MATERIALS 67-02 M05-61283

CARBON, BINARY SYSTEMS
OXIDATION-REDUCTION DIAGRAM 67-01 M14-58368
THE REACTION OF VANADIUM, NIOBIUM, AND TANTALUM DIBORIDES WITH CARBON 67-02 M09-61791
THERMODYNAMIC CALCULATION OF THE EQUILIBRIUM DIAGRAM OF THE IRON-CARBON SYSTEM 67-02 M13-62253
APPLYING THE THEORY OF REGULAR SOLUTIONS TO THE CALCULATION OF A CONSTITUTION DIAGRAM OF THE FE-C SYSTEM. PT. 2 67-02 M13-62255
THE METAL RICH PARTS OF THE SYSTEMS TA-C, NB-C AND V-C 67-02 M14-60120
TH-THC PHASE DIAGRAM 67-04 M13-66274
STUDY OF THE VANADIUM-CARBON AND VANADIUM-CHROMIUM-CARBON SYSTEMS 67-04 M14-67199
USE OF PHASE DIAGRAMS OF BINARY SYSTEMS TO CALCULATE THE HEAT OF FUSION OF THE SOLVENT 67-05 M15-69110
ISOLATION OF THE ZETA PHASE IN THE SYSTEM TANTALUM-CARBON 67-06 M14-71168
THERMODYNAMIC PROPERTIES OF URANIUM CARBIDES 67-06 M15-70888
RESEARCH INTO ZR-C SYSTEM ALLOYS 67-08 M13-75462
THE VANADIUM-CARBON SYSTEM 67-09 M13-76939
THE HAFNIUM-CARBON PHASE DIAGRAM 67-09 M14-77690
STUDY OF ALLOYS BELONGING TO THE ZIRCONIUM-CARBON SYSTEM 67-10 M01-79627
THE CONSTITUTION OF BINARY MOLYBDENUM-CARBON ALLOYS 67-11 M13-81352
HIGH-TEMPERATURE VAPORIZATION STUDIES BY MASS SPECTROMETRY. PT. 2. THE SAMARIUM-CARBON SYSTEM 67-11 M15-80303
THERMAL DECOMPOSITION OF NICKEL CARBIDE --REACTIVITY OF NICKEL WITH CO IN THE PRESENCE OF FREE CARBON-- 67-12 M14-82696
GROWTH OF THE SOLID-LIQUID REGION DURING ONE-DIMENSIONAL SOLIDIFICATION OF BINARY ALLOYS. PT. 1 67-12 M14-82745

CARBON, CHEMICAL ANALYSIS
RAPID DETERMINATION OF SILICON IN GRAY IRON 67-01 M19-58359
CARBON DETERMINATION IN HYPERPURE ELEMENTAL BORON USING GAS CHROMATOGRAPHY 67-01 M19-58407
BREAKTHROUGH IN ANALYSIS OF LIGHT ELEMENTS 67-02 M19-59630
RAPID CARBON ANALYSIS --LECO-- 67-06 M19-71390
CARBON DISTRIBUTION DURING PELLETIZATION OF SINTER CHARGE 67-08 M02-74573
ON-BLOW CARBON METER FOR BESSEMER HEATS 67-11 M04-81076
THE INFLUENCE OF CO, MO, NI, V AND W ON THE ACTIVITY OF C IN LIQUID STEEL WITH HIGHER C CONTENTS 67-12 M15-82395
DETERMINING THE CARBON CONTENT IN CUPOLA IRON 67-12 M19-82093

CARBON, COATING
AGGREGATION OF AG AND AU THIN FILMS THAT ARE DEPOSITED ON CARBON FOILS AT ELEVATED TEMPERATURES AND IN ULTRAHIGH VACUUM 67-08 M14-75164

CARBON, COATINGS
COATED-PARTICLE FUELS. PARTICLE COATING 67-09 M16-77312
COATED-PARTICLE FUELS--IRRADIATION AND EVALUATION OF COATED-PARTICLE FUELS 67-09 M16-77313

CARBON, CONCENTRATION /COMPOSITION/
THE WOSTHOFF AUTOMATIC CARBON DETERMINATION APPARATUS 67-09 M19-77705
A SPEEDY METHOD FOR DETERMINING THE CARBON CONTENT OF LIQUID STEEL 67-09 M19-78277
A TEST FOR DETERMINING CARBON EQUIVALENT OF HYPEREUTECTIC CAST IRON 67-10 M19-79292

CARBON, CRYSTAL LATTICES
PRECIPITATION AND REPLACEMENT IN SOLUTION OF CARBON IN IRON 67-02 M14-61528

CARBON, DESORPTION
FIELD EMISSION MICROSCOPIC OBSERVATION OF EFFECTS OF OXYGEN OR AIR ON THE HIGH TEMPERATURE TUNGSTEN CATHODE 67-09 M14-77878

CARBON, DIFFUSION
CARBON DISTRIBUTION IN WELD METAL IN SEMI-AUTOMATIC ELECTROSLAG WELDING 67-01 M11-58218
THE EFFECT OF ALUMINUM ON THE STRESS-INDUCED DIFFUSION OF CARBON ATOMS IN ALPHA IRON 67-02 M14-60158
THE DIFFUSION OF C IN COMPOSITE STEELS 67-02 M14-60207
DETERMINING THE CARBON DIFFUSION COEFFICIENT IN ZIRCONIUM CARBIDE AT HIGH TEMPERATURES 67-02 M14-60668
CARBON MIGRATION IN THE HEAT-AFFECTED ZONE OF THE BIMETAL STEEL-BRONZE 67-02 M14-61914
CARBON DIFFUSION IN NIOBIUM 67-02 M14-62242
SOME PECULIARITIES OF CARBON DIFFUSION IN MOLYBDENUM CARBIDE 67-04 M14-66260
DETERMINATION OF THE DIFFUSION COEFFICIENT OF CARBON IN NICKEL BY THERMOGRAVIMETRIC ANALYSIS 67-04 M14-66339
CARBON DIFFUSION IN CHROMIUM 67-04 M14-67653
CARBON DIFFUSION IN BETA ZIRCONIUM. 67-04 M14-67657
THE DIFFUSION ACTIVATION ENERGY OF INTERSTITIAL ELEMENTS IN TRANSITION METALS WITH A BODY-CENTERED LATTICE 67-04 M14-67916
THE ACCELERATING EFFECT OF NITROGEN ON THE DIFFUSION OF CARBON INTO STEEL DURING HIGH-TEMPERATURE CARBONITRIDING 67-06 M13-70366
REACTION DIFFUSION OF CARBON IN THE ME-C SYSTEM 67-06 M14-72342
DIFFUSION OF CARBON IN TANTALUM 67-07 M14-72524
DETERMINATION OF THE DIFFUSION COEFFICIENT OF CARBON INTO ZIRCONIUM CARBIDE AT HIGH TEMPERATURES 67-07 M14-73104
DIFFUSION OF CARBON IN VANADIUM CARBIDES AND TITANIUM CARBIDES 67-08 M14-74314
THE SOLUTION OF CARBON IN LIQUID RAW IRON 67-08 M14-75067
THE DIFFUSION OF CARBON IN LIQUID FE-C-SI AND FE-C-S ALLOYS 67-08 M14-75663
USE OF AUTORADIOGRAPHY FOR ANALYSIS OF INTERACTION OF CARBON AND PHOSPHORUS IN STEEL 67-09 M13-77402
CHARACTERISTICS OF DIFFUSION PROCESS DURING ULTRASONIC WELDING OF COMMERCIAL IRON 67-09 M14-77418
EFFECT OF HYDROGEN ON CARBON DIFFUSION IN CHROMIUM 67-09 M14-77776
THE NATURE AND EFFECTS OF EXCESS CARBON DEFECTS IN TUNGSTEN CARBIDE-COBALT ALLOYS ON MECHANICAL PROPERTIES 67-10 M09-79977
EFFECTS OF CHROMIUM AND TUNGSTEN ON THE DIFFUSION AND THERMODYNAMIC ACTIVITY OF CARBON IN IRON ALLOYS 67-10 M14-78352
SOME CHARACTERISTICS OF THE DIFFUSION OF CARBON IN MOLYBDENUM CARBIDE 67-10 M14-78992
SOME LAWS REGARDING CHANGES IN THE PARAMETERS DO AND Q DURING DIFFUSION IN METALS AND ALLOYS 67-10 M14-79634
THE CONTROLLING STAGE OF CARBON TRANSPORT IN THE CARBON STEEL-SODIUM MELT-CHROMIUM-NICKEL STEEL SYSTEM 67-11 M14-80581
DISSOLUTION OF STEEL CYLINDER INTO LIQUID FE-C ALLOY 67-11 M14-80749
DISTRIBUTION OF CARBON AND ALLOYING ELEMENTS BETWEEN SOLID SOLUTION AND CARBIDES IN STEEL 67-11 M14-81156
SCRAP MELTING IN THE OXYGEN CONVERTER PROCESS 67-12 M04-81863

DECARBURIZATION OF A LEVITATED IRON DROPLET IN OXYGEN 67-12 M04-82862
EFFECT OF NICKEL IN AUSTENITIC WELDS ON THE MIGRATION OF CARBON TO THE WELDED JOINTS OF DISSIMILAR STEELS 67-12 M11-81908
THE INFLUENCE OF CARBON ON PRECIPITATION OF COPPER IN SILICON SINGLE CRYSTALS 67-12 M14-82004
GROWTH RATE OF BAINITE FROM LOW-CARBON IRON-NICKEL-CARBON AUSTENITE 67-12 M14-82715
INTERSTITIAL DIFFUSION IN THE BCC LATTICE 67-12 M14-82965
THE DIFFUSION OF CARBON IN NICKEL ABOVE AND BELOW THE CURIE TEMPERATURE 67-12 M14-82969
A COMPUTER ANALYSIS OF GAS-METAL DIFFUSION 67-12 M14-83070
STUDY OF THE EFFECT OF ULTRASONIC VIBRATIONS ON THE DIFFUSION OF PHOSPHORUS AND CARBON IN IRON 67-12 M14-83409

CARBON, DISSOLVING
METALLOGRAPHIC OBSERVATIONS ON SPECIMENS OF A PLATINUM MELT STRONGLY OVERHEATED IN GRAPHITE CRUCIBLES 67-11 M14-80701

CARBON, ELECTRICAL PROPERTIES
ELECTRONIC PROPERTIES OF SODIUM-DOPED CARBONS P 1621-1624 67-12 M16-83195

CARBON, ELECTROCHEMISTRY
RELATIONSHIP BETWEEN OXIDIZABILITY AND ELECTROCHEMICAL BEHAVIOR OF CARBON ATOMS DURING THE ELECTROLYSIS OF ALUMINUM 67-05 M03-68960

CARBON, ELECTRODES
CARBON ELECTRODES FOR FUEL CELLS 67-05 M09-68926
ELECTRICAL CLEANING OF THE WASTE GASES FROM ELECTRODE KILNS 67-06 M05-71837
DEGREE OF COKE CALCINATION IN MANUFACTURE OF ANODE MATERIAL 67-08 M03-75093
MEASUREMENT OF THE THERMAL CONDUCTIVITY OF MANUFACTURED CARBON PRODUCTS 67-09 M03-77033
ALUMINUM CELL CATHODES 67-09 M20-77137
PRODUCTION OF NEW TYPES OF CARBON RAW MATERIAL FOR ALUMINUM AND ELECTRODE INDUSTRY 67-11 M03-81435

CARBON, FIBER METALLURGY
FIBER-REINFORCED METALS 67-07 M09-72752
MECHANICAL BEHAVIOR OF A CONTINUOUS FILAMENT CARBON COMPOSITE 67-07 M09-73345

CARBON, FIBERS
CARBON FIBRES STRONGER THAN HIGH TENSILE STEEL 67-10 M14-79422

CARBON, INTERMETALLICS
MAGNETIC BEHAVIOR OF CE IN ITS INTERMETALLIC COMPOUNDS. PT. 6. CE-BE, CE-B AND CE-C SYSTEMS 67-05 M15-69351

CARBON, IRRADIATION
THE INFLUENCE OF PYROLYTIC-CARBON CREEP ON COATED-PARTICLE FUEL PERFORMANCE 67-10 M16-78728
EXCITATION FUNCTIONS AND ANGULAR DISTRIBUTIONS OF MULTINUKLEON TRANSFER REACTIONS IN THE INTERACTION BETWEEN COMPLEX NUCLEI 67-10 M16-80004

CARBON, MICROSTRUCTURE
THE NATURE OF THE NEAR FOCUS E. M. IMAGES OF AMORPHOUS SUBSTRATES AND ITS SIGNIFICANCE FOR OBTAINING HIGH RESOLUTION PICTURES 67-04 M13-66155

CARBON, QUALITY CONTROL
ON THE ACCURACY OF CONTINUOUSLY CALCULATED CARBON IN THE OPENHEARTH BATH 67-11 M04-81301

CARBON, QUATERNARY SYSTEMS
STRUCTURAL DIAGRAMS OF THE QUATERNARY 18 PER CENT CR-FE-C-N SYSTEM 67-02 M13-59983
THE 1200 C. ISOTHERMAL SECTION OF THE PHASE DIAGRAM OF THE QUASITERNARY SYSTEM TIC-NI-CR 67-02 M13-60578
STUDY OF THE NIOBIUM-ZIRCONIUM-HAFNIUM-CARBON SYSTEM 67-12 M13-83407

CARBON, RADIATION EFFECTS
IRRADIATION-INDUCED DENSIFICATION OF PYROLYTIC CARBON 67-09 M16-77715

CARBON, REACTIONS /CHEMICAL/
INVESTIGATION OF THE REACTIONS OF LIQUID HIGH-IRON --2-- OXIDE SLAGS WITH SOLID CARBON 67-01 M04-58447
GROUP IVB AND VB METAL CARBIDE-CARBON EUTECTIC TEMPERATURES 67-02 M05-61089
A STUDY OF U PLUS CUC REACTION IN THE SOLID STATE, IN MIXED U AND C POWDERS. PT. 3. A STUDY BY DIFFERENTIAL-THERMAL ANALYSIS 67-02 M09-60746
SOLUTIONS OF CARBON AT HIGH PRESSURE 67-06 M14-72085
BEHAVIOR OF CARBON IN SYSTEMS OF THE METAL-MOLTEN LITHIUM-CARBON TYPE 67-10 M14-79640
REACTION OF AN IRON-CARBON DROPLET DURING FREE FALL THROUGH OXYGEN 67-10 M14-79765

CARBON, REDUCING AGENTS
CARBON REDUCTION KINETICS FOR MANGANESE AND SILICON FROM MNO AND SIO2 MIXTURES 67-01 M03-58289

CARBON, SOLID SOLUBILITY
DETERMINING THE SOLUBILITY OF CARBON IN FERRITE BY THE RADIOMETRIC METHOD 67-04 M19-67090

CARBON, SOLID SOLUTIONS
ON THE NATURE OF CEMENTITE 67-02 M14-61756

CARBON, SOLUBILITY
THERMODYNAMIC PROPERTIES OF COBALT ALLOYS 67-01 M15-57172
INFLUENCE OF OXYGEN ON CARBON SOLUBILITY IN MOLTEN IRON 67-02 M14-61192
THE SOLUBILITIES OF CARBON, TANTALUM, TUNGSTEN AND RHENIUM IN LIQUID PLUTONIUM 67-06 M15-70890
CARBON SOLUBILITY IN LIQUID METALS OF THE SIXTH PERIOD 67-08 M15-74323
MEASUREMENT OF CARBON SOLUBILITY AND ELECTROCHEMICAL DETERMINATION OF MANGANESE ACTIVITY IN CARBON-SATURATED MN-CO-C AND MN-NI-C SYSTEMS AT 1320 C 67-09 M14-76014
DETERMINATION OF THE SOLUBILITY OF CARBON IN FERRITE BY A RADIOMETRIC METHOD 67-09 M14-78070
EFFECT OF ALUMINUM ON THE DAMPING CURVE AND SOLUBILITY OF CARBON IN ALPHA-IRON 67-09 M17-77192
THE EFFECT OF VARIOUS HEAT TREATMENTS ON THE SOLUBILITY OF C IN ALPHA FE AND THE ELIMINATION OF AGING IN LOW CARBON STEELS 67-10 M10-78591
SOLUBILITY OF CARBON IN COPPER-MANGANESE ALLOYS IN THE LIQUID STATE BETWEEN 1000 AND 1250 C 67-10 M14-79925
THE THERMODYNAMICS OF DILUTE INTERSTITIAL SOLID SOLUTIONS 67-11 M15-81119
A MODEL FOR CONCENTRATED INTERSTITIAL SOLID SOLUTIONS--ITS APPLICATION TO SOLUTIONS OF CARBON IN GAMMA IRON 67-12 M14-82574
THE REACTIONS OF LIQUID TITANIUM AND HAFNIUM WITH CARBON 67-12 M14-82878
A CORRELATION OF THERMODYNAMIC VARIABLES FOR IRON-RICH IRON-NICKEL-CARBON ALLOYS 67-12 M15-82959

CARBON, TERNARY SYSTEMS
PHASE EQUILIBRIA IN THE TI-V-C SYSTEM AT 1450, 1600 AND 1800 C 67-01 M13-57600
TERNARY COMPOUNDS IN THE BERYLLIUM-BORON-CARBON SYSTEM 67-01 M13-58076
THE STRUCTURE OF SOME ALLOYS IN THE TERNARY TI-MO-C SYSTEM 67-01 M14-57599
PHASE DIAGRAM OF THE HFC-MO SYSTEM 67-02 M13-59666
PHASE EQUILIBRIA IN THE SYSTEM ZR-W-C 67-02 M13-60577
X-RAY STRUCTURAL AND METALLOGRAPHIC INVESTIGATIONS OF NB-CO-C ALLOYS 67-02 M13-60741
THE ISOTHERMIC SHIFT AT ORDINARY TEMPERATURE OF THE URANIUM-CARBON-SILICON DIAGRAM 67-02 M13-61023
PHASE EQUILIBRIA IN THE SYSTEM MOLYBDENUM-CHROMIUM-CARBON 67-02 M13-61790
STRUCTURE OF SOME ALLOYS OF THE TITANIUM-VANADIUM-CARBON SYSTEM 67-02 M13-62178
TI-V-C TERNARY SYSTEM 67-02 M13-62240
ISOTHERMAL SECTION OF THE FE-V-C TERNARY SYSTEM AT 500 C 67-02 M13-62275
REACTION OF CHROMIUM, MOLYBDENUM, AND TUNGSTEN BORIDES WITH CARBON 67-02 M14-61634
THE URANIUM-CARBON-NITROGEN SYSTEM 67-02 M15-60617
PHASE EQUILIBRIUM IN THE HF-RE-C TERNARY SYSTEM 67-03 M13-65794
URANIUM CARBIDE. REFRACTORY METAL INTERACTIONS AT HIGH TEMPERATURE 67-03 M14-65987
STRUCTURE OF ALLOYS IN THE ZR-C-NB SYSTEM 67-04 M13-67097
THE RHENIUM-CHROMIUM-CARBON SYSTEM 67-04 M13-67341
CHROMIUM BORON CARBIDE 67-04 M13-67865
HIGH TEMPERATURE PHASE-EQUILIBRIA IN THE TH-U-C SYSTEM IN THE PRESENCE OF FREE CARBON

67-04 M14-66240
CONTRIBUTION TO THE CR-C-N SYSTEM
67-04 M14-66915
THE URANIUM-CARBON-OXYGEN TERNARY DIAGRAM
67-04 M14-66916
X-RAY INVESTIGATIONS IN THE V-AS-C SYSTEM
67-04 M14-67055
THE ZRC-MO PHASE DIAGRAM 67-04 M14-67236
STUDY OF THE EQUILIBRIUM OF FOUR SOLID PHASES IN THE TERNARY SYSTEM U-C-SI 67-04 M14-67454
THE STRUCTURE OF ALLOYS IN THE ZR-C-TA SYSTEM
67-05 M13-69492
RESEARCH ON THE URANIUM-OXYGEN-CARBON SYSTEM
67-05 M14-68765
STUDY OF ISOTHERMAL TRANSFORMATIONS IN SEMI-FERRITIC STAINLESS STEELS WITH 17 PER CENT CHROMIUM 67-05 M14-69114
EQUILIBRIA IN THE IRON-CARBON-OXYGEN SYSTEM IN THE TEMPERATURE AND CONCENTRATION RANGE OF LIQUID STEEL, AND HOW IT IS INFLUENCED BY PHOSPHORUS, MANGANESE, AND SULPHUR 67-06 M13-70257
TRIANGULATION OF THE SYSTEM C-SI-BE
67-06 M13-70774
W-CR-C TERNARY SYSTEM 67-06 M14-69993
NUMERICAL DETERMINATION OF PHASE COMPOSITION IN MULTI-ELEMENT SYSTEMS, FOR EXAMPLE U-C-CR SYSTEM
67-07 M13-74236
TERNARY SYSTEMS NIOBIUM-RHENIUM-CARBON AND TANTALUM-RHENIUM-CARBON 67-08 M13-74309
TERNARY SYSTEMS OF TI-ZR-C AND TI-HF-C
67-08 M13-75435
STRUCTURE OF SOME ALLOYS OF THE SYSTEM TITANIUM-VANADIUM-CARBON 67-08 M13-75954
PHASE RELATIONS IN THE URANIUM MONOCARBIDE REGION OF THE SYSTEM URANIUM-CARBON-OXYGEN AT 1700C
67-08 M13-76079
THE METASTABLE EQUILIBRIUM DIAGRAM OF THE FE-C-SI SYSTEM 67-09 M13-76944
RESEARCH INTO CERTAIN PROPERTIES OF W2B-WC SYSTEM ALLOYS 67-09 M13-76955
CONSTITUTIONAL STUDIES ON THE TERNARY SYSTEM PLUTONIUM-MOLYBDENUM-CARBON, PLUTONIUM-SILICON-CARBON AND PLUTONIUM-THORIUM-CARBON
67-09 M14-76345
EACH PHASE COMPOSITION OF TIC-NI CERMET
67-09 M14-77246
CONTRIBUTION TO THE STUDY OF THE CHEMICAL ACTIVITY OF THE ELEMENTS PHOSPHORUS, SULPHUR, SILICON, COPPER AND CHROMIUM IN MOLTEN IRON SOLUTIONS SATURATED WITH CARBON 67-09 M14-77343
REACTIONS OF COMPOUNDS IN THE NB-C-O SYSTEM WITH CO OR CO2 67-09 M14-78220
CEMENTED CARBIDES WITH HIGH-MELTING BINDERS. PT. 2. TERNARY EQUILIBRIUM SYSTEMS 67-10 M14-79979
A CONTRIBUTION TO THE CHROMIUM-CARBON-NITROGEN SYSTEM 67-12 M13-82053

CARBON, THERMODYNAMICS
THE INFLUENCE OF VANADIUM ON THE ACTIVITY OF CARBON IN THE FE-C-V SYSTEM AT 1000 C., CORRELATION OF THE INFLUENCE OF SUBSTITUTIONAL SOLUTES ON THE ACTIVITY COEFFICIENT OF CARBON IN IRON-BASE SYSTEMS 67-01 M14-57417
THERMODYNAMIC ACTIVITY OF CARBON IN FE-C-SI AND FE-C-CO ALLOYS 67-10 M15-79907

CARBON, THIN FILMS
AN A-C ELECTRON BOMBARDMENT TECHNIQUE FOR VACUUM DEPOSITION OF CARBON 67-07 M12-72809

CARBON, TRANSPORT PROPERTIES
ELECTROTRANSPORT OF CARBON, NITROGEN, AND OXYGEN IN THORIUM 67-01 M14-57416
TRANSPORT OF CARBON IN SOLID SOLUTIONS WITH IRON GROUP METALS BASE 67-06 M15-72372

CARBON ARC BRAZING
SEE ARC BRAZING

CARBON ARC CUTTING
SEE ARC CUTTING

CARBON ARC WELDING
GALVANIZED STEELS FOR FABRICATED METAL PRODUCTS. PT. 2. FORMING, WELDING, SOLDERING AND PAINTING
67-01 M11-58794

CARBON BLACK, SURFACE PROPERTIES
THE ADSORPTION OF CARBON DIOXIDE ON CARBON SOLIDS. PT. 1. GRAPHITE AND DIAMOND AT 0 K
67-05 M15-69597

CARBON COMPOUNDS
SEE CARBON DIOXIDE
CARBON MONOXIDE

CARBON DIOXIDE, ADSORPTION
THE ADSORPTION OF CARBON DIOXIDE ON CARBON SOLIDS. PT. 1. GRAPHITE AND DIAMOND AT 0 K
67-05 M15-69597
HEATS OF ADSORPTION OF CARBON DIOXIDE ON DOPED ZINC OXIDE 67-05 M15-69598

CARBON DIOXIDE, CHEMICAL ANALYSIS
AUTOMATIC DETERMINATION OF THE CARBON DIOXIDE CONTENT IN THE GAS ALONG A BLAST FURNACE THROAT RADIUS 67-05 M04-69078

CARBON DIOXIDE, CORROSION ENVIRONMENTS
THE OXIDATION OF PURE U IN CO2 BETWEEN 700 AND 1000 C 67-05 M18-68637
OXIDATION OF FE-TI ALLOYS IN CO-CO2 MIXTURES
67-05 M18-69472

CARBON DIOXIDE, REACTIONS /CHEMICAL/
TRIBOCHEMICAL REACTIONS OF METALS WITH CARBON AND OXIDES OF CARBON 67-10 M14-79969

CARBON DIOXIDE, SORPTION
DECARBURIZATION OF IRON-CARBON MELTS IN CO2-CO ATMOSPHERES--KINETICS OF GAS-METAL SURFACE REACTIONS 67-12 M04-82955

CARBON MONOXIDE, ADSORPTION
A LEED STUDY OF CO AND CO2 ADSORPTION ON MO --110--
67-06 M15-71022
ADSORPTION OF NITROGEN AND CARBON MONOXIDE ON MOLYBDENUM 67-06 M15-71043
THE ADSORPTION OF CO GAS BY METALS SUPPORTED ON SILICA 67-09 M14-76486

CARBON MONOXIDE, CHEMISORPTION
CHEMISORPTION OF CARBON MONOXIDE ON MOLYBDENUM
67-08 M14-75370
THE CHEMISORPTION OF CARBON MONOXIDE ON POLYCRYSTALLINE MOLYBDENUM 67-08 M14-75920

CARBON MONOXIDE, CORROSION ENVIRONMENTS
OXIDATION OF FE-TI ALLOYS IN CO-CO2 MIXTURES
67-05 M18-69472

CARBON MONOXIDE, DESORPTION
ELECTRON-BOMBARDMENT DESORPTION OF CARBON MONOXIDE ADSORBED ON TUNGSTEN 67-11 M16-80120

CARBON MONOXIDE, OXIDIZING AGENTS
THE OXIDATION OF FE AND LOW-ALLOYED HEAT RESISTANT STEELS IN CO ATMOSPHERES AT 500 AND 550 C
67-11 M18-80353
FUNDAMENTAL ASPECTS OF THE OXIDATION OF ZR IN CARBONIC GAS 67-11 M18-80354

CARBON MONOXIDE, REACTIONS /CHEMICAL/
APPLICATION OF THE REACTIONS CONCERNING H2 AND STEAM AND THE TEMPERATURE OF TOP GAS TO THE BLAST FURNACE MODEL 67-11 M04-80940
DEOXIDATION OF LIQUID COPPER BY A SUBMERGED GAS JET 67-12 M03-82746
KINETIC REACTIONS OF CO ON DIVIDED NICKEL
67-12 M14-82695

CARBON MONOXIDE, SORPTION
DECARBURIZATION OF IRON-CARBON MELTS IN CO2-CO ATMOSPHERES--KINETICS OF GAS-METAL SURFACE REACTIONS 67-12 M04-82955

CARBON REPLICAS
METHOD FOR PRODUCING SINGLE-STEP CARBON REPLICAS FOR ELECTRON-MICROSCOPE INVESTIGATIONS OF LOW-SOLUBILITY AND POROUS POWDERS
67-05 M13-69627
PRODUCTION OF CARBON REPLICAS OF TRANSVERSE SECTIONS OF GERMANIUM FILMS 67-05 M13-69628
TOWARD A METHOD OF MICROFRACTOGRAPHIC STUDY OF STAINLESS STEEL 67-05 M13-69631
OBTAINING HIGH-TEMPERATURE IMPACT FRACTURES FOR ELECTRON MICROFRACTOGRAPHY 67-05 M17-69049
ON THE INTERPRETATION OF FRACTURE SURFACE OBSERVATIONS 67-06 M17-70444
LOOKING FOR THE WHY OF FRACTURE
67-10 M17-79782
PRODUCTION OF HIGH-TEMPERATURE IMPACT FRACTURES IN ELECTRON MICROFRACTOGRAPHY 67-12 M17-82000

CARBON STEELS
SEE ALSO CARBON TOOL STEELS
KILLED STEELS
RIMMING STEELS
HIGH-STRENGTH STEELS 67-03 M01-65002
USS CHAR-PAC --HEAT TREATED CARBON PLATE STEEL--
67-04 M01-68068
NEW STEELS AND THEIR APPLICATIONS
67-06 M20-72010
WROUGHT STEELS PRIMER 67-12 M01-83177

CARBON STEELS, ABSORPTION SPECTRA
X-RAY ABSORPTION K-SPECTRA OF IRON IN CARBIDE OF CARBON STEEL, TEMPERED AT VARIOUS TEMPERATURES AND HOLDING TIMES 67-02 M14-59939
K-ABSORPTION SPECTRA OF IRON IN THE CARBIDE OF A CARBON STEEL TEMPERED AT DIFFERENT TEMPERATURES

AND HOLDING TIMES 67-07 M14-72594
CARBON STEELS, ALLOYING
DETERMINATION OF ALUMINUM AND ITS STATES OF COMBINATION IN PLAIN CARBON STEELS 67-07 M19-72898
CARBON STEELS, ALLOYING EFFECTS
RESIDUALS IN STEEL FOR FORGINGS 67-06 M19-71822
CARBON STEELS, BILLETS
RELATIONSHIP BETWEEN PARAMETERS OF PIERCING OPERATION AND QUALITY OF INITIAL TUBE BILLET 67-04 M07-66214
CARBON STEELS, BIMETALS
MANUFACTURE OF STEEL-ALUMINUM WIRE BY THE POWDER METALLURGY METHOD 67-02 M09-62203
PRODUCING NB-STEEL BIMETAL BY VACUUM ROLLING 67-05 M12-68238
CARBON STEELS, BONDING
THE PROBLEM OF JOINING AL TO PB AND PB TO FE 67-01 M11-58624
METHODS OF IMPROVING THE TECHNOLOGY OF PRODUCING BILAYER SHEET STEEL 67-02 M07-61948
MEANS OF IMPROVING THE MANUFACTURE OF TWO-PLY STEELPLATE 67-04 M07-67777
THE ADHESIVE BONDING OF ZN, CU, BRASS AND BROWN-FINISHED STEEL 67-05 M11-69033
EFFECT OF THICKNESS OF GLUE FILM ON THE LIFE OF GLUED METAL JOINTS IN WATER 67-05 M11-69043
EXPLOSION-BONDING PROCESS FOR METALS 67-05 M12-68479
ADHESION THEORY--INITIAL CONSIDERATIONS, DESIGN REQUIREMENTS AND BONDING AGENTS 67-10 M11-79689
INFLUENCE OF TECHNOLOGICAL FACTORS ON STRENGTH OF ADHESIVE BONDS 67-12 M11-81776
CARBON STEELS, BRAZING
MECHANISM OF SELF-FLUXING SOLDERS 67-03 M11-65049
WELDING FLANGED AND BUTT JOINTS BY IMMERSING THEM IN THE MOLTEN POOL 67-04 M11-67010
SLIM TWO-PIECE GEARS FABRICATED BY BRAZING 67-05 M11-68306
MN AS AN ALLOYING ADDITION TO LMS 60. PT. 2 67-05 M11-68518
MICROPROBE INVESTIGATIONS OF DIFFUSION PHENOMENA IN SOLDERED AND BRAZED JOINTS 67-06 M11-70240
CARBON STEELS, BRITTLENESS
EFFECT OF THE SUBSTRUCTURE OF FERRITE ON THE CRITICAL TEMPERATURE OF BRITTLENESS OF MILD STEELS 67-01 M17-57150
MECHANISM OF THE BRITTLE FAILURE OF METALS WITH A BCC LATTICE 67-01 M17-57356
BRITTLE FRACTURE OF LOW-CARBON STEEL WELDS OF 4 TO 8 MM IN THICKNESS 67-02 M17-61243
A MATHEMATICAL EXPRESSION OF THE RELATION OF IMPACT STRENGTH OF LOW-CARBON STEELS TO TESTING TEMPERATURE AND CARBON CONTENT 67-04 M17-67616
CARBON STEELS, CASTING
INVESTIGATION OF THE LIFE OF AN INGOT MOLD WITH A CORRUGATED EXTERNAL SURFACE FOR 6.5-TON INGOTS 67-01 M04-57699
APPLICATION OF ALTERNATING ELECTROMAGNETIC FIELDS IN THE CONTINUOUS CASTING OF STEEL 67-01 M04-57932
FOUNDRY SET FOR CASTING METAL, PARTICULARLY STEEL INGOTS, BLOCKS, ETC 67-01 M04-57998
ISOTHERMAL MIXTURES FOR HEATING HOT TOPS 67-01 M04-58039
FOUNDRY TECHNIQUE USING CHROMITE SANDS 67-01 M06-58475
THE CONTINUOUS CASTING OF SMALL CROSS SECTIONS 67-02 M04-59133
USE OF MIXTURES TO PROMOTE BOILING IN CASTING 67-02 M04-59534
EFFECT OF THE HEIGHT AND TEMPERATURE OF THE MOLD ON THE DEPTH OF BLISTERS BENEATH THE CRUST IN RIMMING STEEL INGOTS 67-02 M04-59569
TRANSVERSE AND LONGITUDINAL CRACKS IN BASIC OPENHEARTH BLOOMS 67-02 M04-60828
NORMS OF ALUMINUM CONSUMPTION FOR DEOXIDIZING CARBON STEEL 67-02 M04-61230
CUPOLA-TYPE COVER FOR VACUUM CASTING STEEL 67-02 M06-58882
BURN-IN IN INVESTMENT CASTINGS 67-02 M06-61234
COINING THIN-WALLED PIECES USING MOLTEN STEEL 67-02 M06-61237
QUALITY CONTROL OF STEEL USING LINEAR SHRINKAGE CURVES 67-02 M06-62001
EFFECT OF CERTAIN FACTORS ON THE SOLIDIFICATION OF A STEEL INGOT 67-02 M06-62263
THE EFFECT OF SECONDARY COOLING ON THE GROWTH OF THE WALL THICKNESS IN CONTINUOUS CASTING 67-02 M14-59132
CONTINUOUS CASTING OF TUBE STEEL 67-04 M04-66735
MELTING AND CONTINUOUS CASTING OF SLABS FROM KILLED OPENHEARTH AND CONVERTER MEDIUM CARBON STEELS 67-04 M04-66853
MODE OF LIQUID METAL FLOW DURING INGOT SOLIDIFICATION OF KILLED STEEL 67-04 M04-67723
CONTINUOUS CASTING OF STEEL FOR TINPLATE 67-04 M04-68034
STANDARD ALUMINIUM CONSUMPTIONS FOR THE DEOXIDATION OF CARBON STEEL 67-04 M04-68091
DEFECTS ENCOUNTERED ON PRECISION CASTINGS 67-04 M06-66184
SOLIDIFICATION OF A CASTING IN PRESSURE DIE CASTING 67-04 M06-66420
MECHANISM OF THE FORMATION OF BURN-ON ON STEEL CASTINGS IN SILICATE-BONDED MOLDS 67-04 M06-66421
USE OF INTERNAL COOLERS IN PRODUCTION OF STEEL CASTINGS 67-04 M06-67502
MOLYBDENUM DIES FOR THE PRESSURE DIECASTING OF STEEL 67-04 M06-67950
BURN-ON IN INVESTMENT MOLDS 67-04 M06-68095
STAMPING THINWALLED COMPONENTS FROM MOLTEN STEEL 67-04 M06-68098
THE RELATIONSHIP BETWEEN THE QUALITY OF LARGE CASTINGS AND STEEL MELTING AND POURING TECHNIQUES 67-04 M17-67951
CONTACT OF INGOT WITH CRYSTALLIZER WALLS IN CONTINUOUS CASTING 67-05 M04-68322
INVESTIGATION OF BASIC POWER PARAMETERS OF A VERTICAL CONTINUOUS STEEL CASTING MACHINE PRODUCING FLAT INGOTS 67-05 M04-68548
SLAB CASTING--CAUTION GIVES WAY TO ACTION 67-05 M04-68809
ANNUAL REVIEW OF UNALLOYED AND ALLOY STEEL CASTINGS. PT. 3 67-05 M07-68522
HEAT FLOW IN THE CONTINUOUS CASTING OF STEEL 67-06 M04-70038
UPHILL CASTING, INSURING UNIFORM SUSPENSION OF INGOTS IN MOLDS 67-06 M04-71250
THE CONTINUOUS CASTING OF SMALL SECTIONS 67-06 M04-71566
THE CONTINUOUS CASTING OF HOLLOW BILLETS 67-06 M04-72159
CONTINUOUS CASTING AT A NORTHERN JAPANESE SPECIAL STEEL PLANT 67-06 M04-72383
FORMATION OF RESIDUAL STRESSES IN CASTINGS 67-06 M06-70292
CALCULATION OF THE EFFECT OF INDIRECT CHILL ON THE SOLIDIFICATION RATE OF CAST STEEL 67-06 M06-70850
GAS POROSITY IN STEEL CASTINGS 67-06 M06-72188
PRINCIPAL POWER PARAMETERS OF VERTICAL CONTINUOUS STEEL CASTING PLANT FOR PRODUCING FLAT BILLETS 67-07 M04-72459
CONTINUOUS CASTING AT NOVO LIPETSK 67-07 M04-72810
CONTACT BETWEEN BILLET AND MOLD WALLS IN CONTINUOUS CASTING 67-07 M04-72850
MECHANISM OF THE FORMATION OF INTERNAL HOT CRACKS IN CONTINUOUS-CAST SQUARE STEEL BILLETS 67-07 M04-73004
INVESTIGATION OF CENTRAL POROSITY IN CONTINUOUS-CAST SQUARE AND SLAB SECTIONS 67-07 M04-73018
CASTING SQUARE BILLETS OF SMALL CROSS SECTION ON A MULTIPASS CONTINUOUS CASTING UNIT 67-07 M04-73776
EFFECT OF THE ARRANGEMENT OF THE RADIAL CRYSTALLIZER IN A CONTINUOUS CASTING UNIT ON THE QUALITY OF THE BILLETS 67-07 M04-73777
ASBESTITE USED FOR CONSERVATION OF HEAT IN INGOT TOPS 67-07 M04-74136
MANUFACTURE OF LARGE CARBON STEEL CASTINGS FROM BASIC OXYGEN LD FURNACE STEEL 67-07 M06-72438
PROBLEMS INVOLVED IN THE MANUFACTURE OF HEAVY STEEL CASTINGS WITH LIMITED FACILITIES 67-07 M06-73122
INCREASING THE YIELD OF KILLED INGOT STEEL BY USING ISOTHERMAL HOT STOPS 67-08 M04-74351
OPERATING A CONTINUOUS CASTING MACHINE

CARBON STEELS

67-08 M04-74497
IMPROVING INGOT SURFACES BY TREATING METAL WITH GRAPHITE IN THE INGOT MOULD 67-08 M04-75718
BOTTOM CASTING ENSURING THAT INGOTS HANG UNIFORMLY IN THE INGOT MOULD 67-08 M04-75719
TEMPERATURE FIELD OF THE FLAT WALL OF A CONTINUOUS CASTING MOLD 67-08 M06-74346
SELECTING ALLOYS FOR INVESTMENT CAST PARTS 67-08 M06-74498
SIMULATING SOLIDIFICATION AND HEATING PROCESSES IN RETANGULAR INGOTS 67-08 M06-74593
THERMAL EXPANSION OF MOLD MATERIAL AS ONE OF THE CAUSES OF PRESHRINKAGE EXPANSION OF CASTINGS 67-08 M06-75191
SELECTION FACTORS FOR STEEL INVESTMENT CASTINGS 67-08 M06-75491
THE BOOM IN FERROUS INVESTMENT CASTINGS 67-08 M06-75495
REOXIDATION AND PRECIPITATION PROCESSES IN THE CASTING OF FULLY KILLED UNALLOYED STEELS 67-08 M06-75509
QUALITY CONTROL ON STEEL USING LINEAR SHRINKAGE CURVES 67-08 M06-76084
MULTI-STRAND CONTINUOUS CASTING OF SMALL SQUARE BILLETS 67-09 M04-76539
EFFECT OF POSITION OF A CURVED MOLD IN A CONTINUOUS CASTING MACHINE ON BILLET QUALITY 67-09 M04-76540
CASTING INGOTS INTO CAPPED MOLDS AND SATISFACTORY OUTPUT IN ROLLING 67-09 M04-76715
INTERACTION OF INGOT SKIN WITH COPPER WATER-COOLED WALL OF THE CONTINUOUS CASTING MOLD 67-09 M04-77626
MATHEMATICAL STUDY OF THE SOLIDIFICATION OF SEMIMILD STEEL INGOTS 67-09 M06-76378
SIMULATING THE PROCESS OF PIPE FORMATION IN STEEL CASTINGS 67-09 M06-77871
IRON AND STEEL IN THE MODERN VEHICLE IC ENGINE 67-09 M20-77378
CORRELATIONS BETWEEN THE BEHAVIOR DURING BOILING IN THE MOLD AND THE DEGREE OF MACROSCOPIC PURITY OF VARIOUS EFFERVESCENT STEELS 67-10 M04-79098
INTERACTION BETWEEN THE SKIN OF CONTINUOUS CAST BILLETS AND THE WATER-COOLED COPPER WALLS OF THE MOULD 67-11 M04-80914
CASTING STEEL UNDER A LAYER OF MICA 67-11 M04-81412
THE PROSPECTIVE DEVELOPMENT DIRECTIONS IN CASTING PRODUCTION. PT. 1 67-11 M06-81073
EXOGENOUS INCLUSIONS IN STEEL CASTINGS 67-11 M06-81536
A RADIAL-TYPE CONTINUOUS STEEL CASTING INSTALLATION FOR PRODUCING SLABS 67-12 M04-81861
CONTINUOUS CASTING OF SLABS UP TO 83-IN. WIDE 67-12 M04-81953
SECONDARY COOLING IN CONTINUOUS CASTING AND ITS INFLUENCE ON SOLIDIFICATION PARAMETERS 67-12 M04-82384
LUBRICANTS FOR USE IN COPPER MOLDS IN THE CONTINUOUS CASTING OF STEEL 67-12 M04-82690
WHY CRACKS OCCUR IN CONTINUOUSLY CAST CARBON STEEL BILLETS 67-12 M04-83457
PHASE CONSTITUTION OF BURN-ON ON CARBON STEEL CASTINGS 67-12 M06-81884
GAS AND POROSITY IN CASTINGS. PT. 2 67-12 M06-83351

CARBON STEELS, CASTINGS
STRAIGHTENING STEEL CASTINGS BY THE LOCAL HEATING METHOD 67-01 M06-57327
LARGE STEEL CASTINGS HEAT TREATED IN SELF-GENERATING ATMOSPHERE FURNACE 67-01 M10-58448
HOT-CRACKING SUSCEPTIBILITY OF CAST METALS 67-06 M06-71192
WEAR CONSIDERATIONS IN DESIGN 67-06 M17-70698
CORRECT CASTING DESIGN AS A PREREQUISITE OF HIGH-QUALITY CASTINGS 67-10 M06-78642
EFFECT OF THE THERMAL RESISTANCE OF FOUNDRY MOLDS ON THE STRUCTURE AND MECHANICAL PROPERTIES OF CASTINGS IN HYPEREUTECTOID STEEL 67-10 M06-79331
LEACHING PRECISION CASTINGS 67-11 M12-81362
SURFACE DEFECTS OF STEEL CASTINGS 67-12 M06-83571

CARBON STEELS, CHEMICAL ANALYSIS
THE SPECTROGRAPHIC ANALYSIS OF MOLTEN STEEL.. A REVIEW 67-01 M04-57205
GAS CONTENT OF MEDIUM-CARBON STEEL 67-01 M04-57474
DISTRIBUTION OF ARSENIC IN CARBON STEEL IN THE CRITICAL TEMPERATURE AREA 67-01 M13-57186
NEW WAYS OF PREPARING METALLIC SPECIMENS FOR OPTICAL SPECTRUM ANALYSIS 67-01 M19-57922
BASICS OF HEAT TREATMENT. QUENCH IDENTIFICATION TESTS 67-02 M10-59084
ELECTRON PROBE MICROANALYSIS 67-03 M13-65825
X-RAY FLUORESCENCE ANALYSIS IN A STEEL FOUNDRY 67-03 M19-65010
INVESTIGATION OF CARBIDES IN TEMPERED HIGH-CARBON STEELS 67-04 M13-66006
RESEARCH, USING RADIOACTIVE ISOTOPES, INTO THE EFFECTS OF REFRACTORY PRODUCTS ON THE AMOUNT OF NONMETALLIC INCLUSIONS IN STEEL 67-04 M19-66012
INVESTIGATION OF THE POSSIBILITIES OF INDUSTRIAL USE OF ACTIVATION ANALYSIS TO DETERMINE OXYGEN AND POSSIBLY NITROGEN AND HYDROGEN IN STEELS. PT. 3 67-04 M19-67257
DETERMINATION OF NIOBIUM IN MILD AND LOW-ALLOY STEELS 67-04 M19-67418
THE DEPENDENCE OF THE CONTENT OF OXYGEN IN STEEL ON CERTAIN TECHNOLOGICAL FACTORS 67-05 M04-68739
GAS CONTENT OF MEDIUM-CARBON STEELS 67-06 M04-70762
OPERATING EXPERIENCE WITH EMISSION SPECTROANALYTICAL INVESTIGATIONS OF UNALLOYED AND ALLOYED STEELS WITH A VACUUM SPECTROMETER 67-06 M19-70047
LABELLING OF METALLIC MATERIALS WITH RADIOACTIVE TRACER ELEMENTS 67-06 M19-70837
ANALYSIS OF NITRIDES IN BORON STEELS BY EXTRACTION OF NONMETALLIC PHASES 67-06 M19-71568
ANALYSIS OF HIGH-ALLOY STEELS 67-06 M19-71706
DETERMINATION OF THE SULFUR CONTENT OF IRON AND STEEL 67-07 M19-73239
CARBON ANALYSIS SPEEDED BY NEW DEVICE 67-07 M19-74008
THE DETERMINATION OF HYDROGEN IN THE FREITAL SPECIAL STEEL WORKS 67-07 M19-74107
EMISSION SPECTROGRAPHIC DETERMINATION OF OXYGEN IN STEEL BY A D-C CARBON ARC METHOD 67-08 M19-74401
ROLE OF CHEMICAL ANALYSIS IN STEEL PRODUCTION 67-09 M19-76419
EXPERIMENTAL ALLOY ANALYSIS BY X-RAY SPECTROSCOPY 67-09 M19-76746
THE ELECTROLYTIC ISOLATION AND X-RAY DIFFRACTION IDENTIFICATION OF NIOBIUM CARBIDES AND NIOBIUM NITRIDES IN LOW-NIOBIUM STEELS 67-09 M19-78194
A SPEEDY METHOD FOR DETERMINING THE CARBON CONTENT OF LIQUID STEEL 67-09 M19-78277
A TEST FOR DETERMINING CARBON EQUIVALENT OF HYPEREUTECTIC CAST IRON 67-10 M19-79292
A SPECTROGRAPHIC METHOD FOR MEASURING DECARBURIZATION OF STEEL 67-12 M19-83166

CARBON STEELS, CLAD METALS
PRODUCING BIMETALS BY VACUUM ROLLING 67-05 M12-68235

CARBON STEELS, CLADDING
ROLLING TITANIUM-STEEL BIMETAL IN VACUUM AND IN AN INERT MEDIUM 67-01 M12-57280
NICKEL-STEEL-NICKEL PACK ROLLING 67-01 M12-58069
ROLLING THICK TWO-LAYER SHEETS OF STEEL/ALLOY MONEL ON A 2800 MILL 67-01 M12-58071
RESEARCH INTO THE DEFORMATION AND STRENGTH OF LAYER COHESION IN A STEEL-COPPER BIMETAL IN HOT ROLLING 67-01 M12-58072
ROLLING LARGE-DIMENSION SHEET SANDWICHES CLAD IN TOUGH-DEFORMING STEELS 67-01 M12-58182
WORKABILITY OF CARBON STEEL-NICKEL BIMETAL 67-01 M17-57603
AUTOMATIC SURFACE CLADDING WITH STRIP ELECTRODES 67-03 M12-65814
EXPLOSIVE TECHNIQUE BONDS DISSIMILAR METALS 67-04 M11-66277
INFLUENCE OF THE INTERMEDIATE NI FILM ON STRUCTURE AND PROPERTIES OF BIMETAL STEEL 67-04 M12-66373
BENDING BIMETALLIC STRIP DURING ROLLING 67-04 M12-66618
FATIGUE STRENGTH OF EXPLOSION-CLAD STEEL BIMETALS 67-04 M12-67802
PRODUCTION OF BIMETAL SHEETS BY VACUUM PACK ROLLING 67-05 M12-68550

FATIGUE STRENGTH OF TWO LAYER STEEL, CLAD BY EXPLOSION BONDING 67-06 M12-70302
MANUFACTURE OF BIMETALLIC SHEETS BY ROLLING VACUUM PACKS 67-07 M12-72461
EXPLOSION FORCE FOR FORMING TUBULAR BIMETAL BILLETS FOR HOT DEFORMATION 67-10 M12-78390
EFFECT OF THE THICKNESS OF INTERMEDIATE NICKEL COATINGS ON THE STRUCTURE AND PROPERTIES OF TWO-LAYER STEEL PLATES 67-11 M12-80975
A HYDRAULIC PRESS FOR CLADDING A STEEL WIRE WITH AN ALUMINUM SHEATH 67-12 M12-82067
METHOD OF MANUFACTURING ALLOY STEEL-PLATED SECTIONS FROM CARBON STEEL 67-12 M12-82904

CARBON STEELS, CLEANING
EFFECTIVENESS OF NITROETHANE AS A HYDROGEN DIFFUSION INHIBITOR 67-01 M14-58515
MACHINE UNIT FOR CONTINUOUS STRAND PICKLING AND SURFACE TREATMENT OF WIRE RODS IN HELICAL MOVEMENT 67-02 M12-59006
EFFECTIVENESS OF ORGANIC COMPOUNDS AS PICKLING INHIBITORS IN HYDROCHLORIC AND SULFURIC ACID 67-02 M12-59043
CLEAN HOT-ROLLED CARBON STEEL WITHOUT ACID 67-02 M12-61134
A COMPARISON OF VARIOUS METHODS OF DETERMINING METAL SCALING LOSSES 67-02 M18-61757
DOSCO MONTREAL MILL CHURNS OUT STEEL USING NO-ACID DESCALING 67-04 M06-66697
MILD BATH FOR STEEL 67-05 M12-68604
ABRASIVE CLEANING OF WIRE AND WIRE ROD 67-07 M12-74300
COAL TAR BASE FRACTIONS AS PICKLING INHIBITORS IN HYDROCHLORIC AND SULPHURIC ACID SOLUTIONS 67-09 M04-77482
INFLUENCE OF OXIDANTS ON DISSOLUTION OF LOW-CARBON STEELS IN SULFURIC ACID AND ON QUALITY OF ENAMELED COATINGS 67-10 M12-78535
PICKLING TIMES FOR HOT ROLLED STEEL STRIP IN HYDROCHLORIC AND SULPHURIC ACIDS 67-11 M07-80718
ABRASIVES REPLACE ACID IN DESCALING STEEL STRIP 67-12 M12-83136
SODIUM GLUCONATE IN THE PREPARATION OF CLEANING AND PICKLING BATHS 67-12 M12-83222

CARBON STEELS, COATING
SPECIAL CHARACTERISTICS OF HOT GALVANIZED SHEET STEEL 67-01 M01-58629
PLASTIC LINED STEEL CONTAINERS 67-01 M12-57299
NICKEL SOUPS UP STRIP STEEL 67-01 M12-57433
COATINGS OF HIGH-TEMPERATURE MATERIALS 67-01 M12-58001
COATINGS OF HIGH-TEMPERATURE MATERIALS. PT. 1 67-01 M12-58002
STUDY OF VIBROARC BUILDING OF BRONZE ON STEEL 67-01 M12-58027
AUTOMATIC BUILDUP UNDER OXIDIZING FLUX OF STATIONARY SCREEN GRATES OF A SINTERING MACHINE 67-01 M12-58213
NEW PROCESSES FOR GALVANISING WIRE 67-01 M12-58575
ELECTROLESS NICKEL PLATING FROM ALKALI SOLUTIONS IN ABSENCE OF ORGANIC ADDITIONS 67-01 M12-58712
COLD PHOSPHATING OF STEEL 67-01 M12-58791
X-RAY STUDY OF SOME THIN NICKEL ELECTRODEPOSITS 67-01 M14-57493
APPLICATIONS OF METALLIZING IN THE STEEL MILL 67-01 M18-57163
USE OF MULITLAYER COATINGS FOR CORROSION PROTECTION OF SPRINGS IN WATER AT HIGH 67-01 M18-58706
HIGH-FREQUENCY BUILDUP OF THIN-SHEET PIECES WITH WEAR-RESISTANT ALLOYS 67-02 M11-59519
RECLAMATION OF METALLURGICAL EQUIPMENT BY BUILDUP 67-02 M11-59527
INFLUENCE OF SOME REFRACTORY COMPOUNDS ON THE PROPERTIES OF HARD SURFACED METAL 67-02 M11-60185
PRODUCTIVITY OF VIBRO-ARC BUILD-UP BY LARGE DIAMETER ELECTRODE WIRE 67-02 M11-60835
NEW ELECTRODES FOR WEAR-RESISTANT BUILDUP 67-02 M11-60836
RECLAMATION OF LARGE SIZE METALLURGICAL EQUIPMENT PARTS 67-02 M11-61250
PLATING LEAD ON STEEL AT HIGH SPEED 67-02 M12-58973
SURFACE TREATING BEFORE PAINTING--IRON AND ZINC PHOSPHATIZING 67-02 M12-58978
THE FISH-SCALING OF ENAMELED SHEET 67-02 M12-60023
STUDY OF METHODS OF PRODUCTION AND PROPERTIES OF PLASTIC-COATED STEEL SHEETS 67-02 M12-60083
CONTINUOUS LACQUERING OF GALVANIZED STEEL BANDS 67-02 M12-60140
PILOT LINE SUCCESS INDICATES FEASIBILITY OF NEW TYPE NICKEL COATING SYSTEM 67-02 M12-60239
INTERACTION BETWEEN CR COATING AND THE SURFACE LAYER OF THE BASE METAL UPON HEATING 67-02 M12-60853
AUTOMATIC METAL ARC HARD FACING IN AUSTRALIA 67-02 M12-60910
IMPROVING THE ENAMELABILITY OF STEELS BY DECARBURIZING ANNEALING 67-02 M12-60995
CIRCULAR ELECTROSLAG DEPOSIT WELDING OF PARTS IN VERTICAL POSITION 67-02 M12-61252
INVESTIGATION OF THE MICROSTRUCTURE AND PHASE COMPOSITION OF A DIFFUSION LAYER IN A 3-COPPER BIMETAL STEEL 67-02 M13-59664
EFFECT OF ELECTROPLATED COATINGS ON THE CRACKING OF STEEL DURING TESTS IN AIR AND IN A HYDROGEN ABSORBING CORROSIVE MEDIUM 67-02 M17-59653
THE EFFECTS OF THE CONDITIONS OF ELECTROLYSIS ON THE FORMATION OF ELECTRODEPOSITED NUCLEI 67-02 M18-60279
THE EFFECTIVENESS OF SPRAYED CERAMIC FILMS AS A PROTECTION AGAINST OXIDATION OF STEEL 67-02 M18-60282
SOME EXPERIENCES IN COPPER ELECTROFORMING OF WAVE GUIDES 67-03 M08-65418
GLASS-COATED STEEL ADDS EDGE COAT 67-03 M12-65012
DIFFUSION ON THE SURFACE OF STEEL PARTS 67-03 M12-65452
COATING BY THE ELECTRON BEAM 67-03 M12-65480
LATEST DEVELOPMENTS IN ZINC-RICH PAINTS 67-03 M12-65627
PRODUCING A LAYER OF NICKEL AND COBALT BORIDES ON THE SURFACE OF IRON 67-03 M12-65973
REPAIR OF GUIDE SEGMENTS FOR THE DONBASS COAL COMBINE 67-04 M11-66471
THE RECONDITIONING OF LARGE EQUIPMENT PARTS AT METAL WORKS 67-04 M11-66523
OUTPUT OF VIBRO-ARC HARDFACING USING LARGE DIAMETER ELECTRODE WIRE 67-04 M11-67992
NEW ELECTRODES FOR WEAR RESISTING HARDFACING 67-04 M11-67993
INVESTIGATION CONCERNING INFLUENCE OF METAL SPRAYING ON BENDING FATIGUE STRENGTH OF CARBON STEEL SHAFTS 67-04 M11-68015
CARBON TOOL STEEL AND CHROMIUM-NICKEL STRUCTURAL STEEL COATED WITH MOLYBDENUM BY DIFFUSION 67-04 M12-66023
HIGH FREQUENCY HARDFACING OF THIN SHEET COMPONENTS 67-04 M12-66468
HARDFACING REPAIRS ON IRON AND STEELWORKS EQUIPMENT 67-04 M12-66476
THE CIRCUMFERENTIAL ELECTROSLAG BUILDING UP OF CYLINDRICAL COMPONENTS 67-04 M12-66525
BONDING OF ALUMINIUM FOIL AND POWDER TO STEEL STRIP 67-04 M12-66982
PORE-FREE NICKEL COATING OF STEEL 67-04 M12-67072
CATHODE POLARIZATION AND QUALITY OF DEPOSITES DURING BRASS PLATING IN PYROPHOSPHATE ELECTROLYTE 67-04 M12-67288
FORCES BINDING PLASMA COATINGS TO THE BASE 67-04 M12-67338
FROM STRIP TO GALVANIZED TUBING IN ONE CONTINUOUS OPERATION 67-04 M12-67766
THE SURFACE TREATMENT OF EXTRUDED PARTS 67-04 M12-68059
CLADDING STEEL WITH LEAD BY POWDER ROLLING 67-04 M12-68106
SOME OBSERVATIONS ON THE CARBON-CONTAINING REGIONS OF ENAMELLING STEEL AND CAST IRON UNDER ENAMELLING CONDITIONS 67-04 M14-67903
IMPROVEMENT IN CORROSION RESISTANCE OF DECORATIVE NICKEL-CHROMIUM DEPOSITS 67-04 M18-66721
COPPER-COATED STEEL STRIP SOLVES PROBLEMS, REDUCES COSTS, IMPROVES PRODUCT QUALITY 67-04 M20-67491
PROPERTIES OF ZINC COATINGS AFTER HEAT TREATMENT 67-05 M12-68372
COMBATTING HYDROGEN EMBRITTLEMENT IN STEELS. IMPROVED ELECTROPLATING METHODS AND THEIR USE 67-05 M12-68488
SOME EXPERIENCES WITH CHLORIDE-FREE NICKEL BATHS 67-05 M12-68489
THE EFFECT OF ULTRASONICS ON THE PHOSPHATING

CARBON STEELS

PROCESS 67-05 M12-68490
THE ELECTRODEPOSITION OF IRIDIUM 67-05 M12-68829
FURTHER RESULTS WITH NEW METAL-PIGMENTED PAINTS 67-05 M12-68830
THE ELECTRODEPOSITION OF ALUMINIUM 67-05 M12-68831
FLAME SPRAYING BY MEANS OF PLASMA AND ELECTRIC ARC 67-05 M12-69122
HARD SURFACING BY OXYGEN-ACETYLENE FLAME, AIDED BY NI AND CO BASE ALLOYS 67-05 M12-69123
CHROMIZED STEEL--CORROSION RESISTANCE AT LESS COST THAN STAINLESS STEEL 67-05 M12-69496
SURFACE ALLOYING OF STEEL CASTINGS 67-05 M12-69604
INFLUENCE OF THE PICKLING ADDITIONS ON FISH SCALE DEFECTS OF ENAMEL COATINGS 67-05 M12-69835
SURFACE HARDENING, CORROSION AND SCALING PROTECTION OF STEEL BY METALLIC SURFACE IMPREGNATION 67-05 M18-68734
NOTES ON INTERNAL STRESSES IN COATINGS 67-06 M01-71732
SPOT WELDING OF ALUMINUM TO ALUMINUM-PLATED STEEL 67-06 M11-71654
PREVENTING THE CORROSION OF SULFURIC ACID APPARATUS BY METAL SPRAYING 67-06 M12-70399
THE BEHAVIOR OF NUCLEATION OF TIN ELECTRODEPOSITS ON COLD ROLLED STEEL SHEETS 67-06 M12-70781
THE RESISTANCE OF TITANATED CARBON STEEL TO EROSION IN WATER 67-06 M12-71117
STABLE BATHS FOR ELECTROPLATING ZINC AND CADMIUM 67-06 M12-71199
NEW DEVELOPMENTS IN THE METHODS FOR HOT GALVANIZING OF STRIP 67-06 M12-71504
GROUND ENAMELS AND THEIR PROCESSING 67-06 M12-71743
SIMPLER PRETREATMENT PROCESSES 67-06 M12-71902
A NEW PROCESS FOR ALUMINIUM COATING STEEL STRIP 67-06 M12-72020
ELECTROLYTIC TINNING OF STEEL STRIP 67-06 M12-72194
TIN COATING METHODS 67-07 M12-72488
CORRELATION OF PHYSICO-MECHANICAL PROPERTIES OF DIFFUSIVE COATINGS WITH THEIR ELECTRONIC STRUCTURE 67-07 M12-72512
ELIMINATION OF NITROGEN FROM LOW-CARBON STEEL SHEET BY AN ALUMINUM DIFFUSION TREATMENT 67-07 M12-72552
THE TECHNOLOGY OF HOT GALVANIZING 67-07 M12-73231
GALVANOTHERMAL METHOD FOR PRODUCTION OF FE-NI-CR COATINGS 67-07 M12-73657
VARIATIONS IN THICKNESS OF PLATE IN CAVITIES ELECTROPLATED WITH CADMIUM 67-07 M12-74128
SILICONIZING OF STEEL DURING RAPID HEATING 67-07 M12-74184
USE OF DIFFUSION ZINC PLATING IN TUBE INDUSTRY 67-07 M12-74187
INFLUENCE OF DIFFUSION CHROMIZING ON FATIGUE AND CORROSION FATIGUE OF CARBON STEEL 67-07 M18-74183
GLASS COATING OF THE INTERNAL SURFACE OF STEEL TUBES BY A POWDER METHOD 67-08 M12-75016
THE ADHERENCE OF ZINC COATS ON STEEL WIRE 67-08 M12-75074
PRECOATED STEELS 67-08 M12-75475
PORCELAIN ENAMEL ADHERENCE TO LOW CARBON STEEL. PT. 1 67-08 M12-75538
THE ADHERENCE OF PORCELAIN ENAMEL TO LOW-CARBON STEEL 67-08 M12-75564
NEW CHROMIZING AND CHROMIUM-ALUMINIZING PROCESSES 67-08 M12-75609
INTERACTION BETWEEN THE CHROMIUM COATING AND THE SURFACE LAYER OF THE METAL 67-08 M12-76111
COLD PHOSPHATING OF CARBON METAL IN ZN2--PO4--2 SOLUTIONS 67-08 M12-76285
THE EFFECT OF C, SI AND AL ON THE THICKNESS OF THE GALVANIZED LAYER ON STEEL STRIP 67-09 M12-77205
FORDS LUXURY CARS PRIMED BY ELECTROCOATING 67-09 M12-77389
CONVERSION COATINGS PREPARE GALVANIZED STEEL FOR PAINTING 67-09 M12-77390
CORROSION PREVENTION IN CONTACT SULPHURIC ACID PLANT EQUIPMENT 67-09 M12-78099
EFFECT OF HOT DIP GALVANIZING OF WIRE ON THE THICKNESS AND STRUCTURE OF ZINC COAT 67-09 M12-78284
PORCELAIN ENAMEL ADHERENCE TO LOW CARBON STEEL 67-09 M12-78297
X-RAY STUDY OF SOME THIN NICKEL ELECTRODEPOSITS 67-09 M13-78135
SPOT WELDING ALUMINIUM TO ALITISED STEEL 67-10 M11-79622
PLASMA ARC DEPOSITION OF COPPER ON STEEL USING A LIVE FILLER METAL ELECTRODE 67-10 M12-78402
BETHLEHEMS SHEET CHROMIZING PROCESS 67-10 M12-78471
INFLUENCE OF ORGANIC ADDITIONS ON THE STRUCTURE OF TIN DURING ELECTROLYTIC TIN PLATING 67-10 M12-78529
INFLUENCE OF THE NATURE AND CONCENTRATION OF ORGANIC ADDITIONS ON THE PROCESS OF ELECTROLESS NICKEL PLATING 67-10 M12-78532
INFLUENCE OF OXIDANTS ADDED TO THE PICKLING SOLUTION ON ADHESION OF ENAMEL COATINGS TO THE STEEL 67-10 M12-78534
PROTECTION OF TUBES IN THE OIL INDUSTRY 67-10 M12-78543
COLD PHOSPHATING OF CARBON STEEL IN ZINC PHOSPHATE SOLUTIONS 67-10 M12-79278
ONE-COAT ENAMELLING STEEL 67-10 M12-79497
STEEL SHEET FOR ONE-COAT VITREOUS ENAMELLING 67-10 M12-79498
CORROSION TESTING OF CHROMIUM AND MULTILAMINAR COATINGS IN DAIRY PRODUCTS 67-10 M18-78542
IMPROVING THE FATIGUE STRENGTH OF CHEMICALLY NICKEL-PLATED STEEL BY SURFACE HEATING WITH HIGH-FREQUENCY CURRENT 67-11 M10-81293
COATED SHEET STEEL FOR DIRECT-ON ENAMELING 67-11 M12-80349
STUDIES ON CARBIDES OF TITANIUM GROUP. PT. 1. FORMATION OF TITANIUM CARBIDE FILM 67-11 M12-80505
MYRIAD NEW SURFACE ALLOYS VIA ELECTROLYSIS 67-11 M12-80790
THE PRESENT STAND OF METAL SPRAY TECHNOLOGY. PT. 3 67-11 M12-81135
THE FORMATION OF FE-NI AND FE-NI-CO SOLID SOLUTIONS AT THE STEEL-ENAMEL INTERFACE 67-11 M13-81379
EFFECT OF LIQUID CALORIZING ON THE TENSILE PROPERTIES OF STEEL-ALUMINUM WELDED TUBE 67-11 M17-80591
CORRELATION OF THE PHYSICOMECHANICAL PROPERTIES AND ELECTRONIC STRUCTURE OF DIFFUSION COATINGS 67-11 M17-80898
DETERMINING THE ADHESION STRENGTH OF COPPER AND NICKEL COATINGS TO A STEEL BASE BY THE LARGE CENTRIFUGAL FIELDS METHOD 67-11 M17-81299
SAFETY AND STATISTICAL INVESTIGATION OF THE FATIGUE BEHAVIOR OF SPECIMENS WITH SEVERAL CONCURRENT NOTCHES ON ZN-POWDER PRIMED STRIPS WITH WELDED TRANSVERSE REINFORCING STRIPS 67-11 M17-81382
CHROMIZING COATING PROCESS FOR LOW-CARBON STEEL 67-12 M09-82398
SOME GOOD TIPS FOR PLATING STEEL, BRASS AND DIE CASTINGS 67-12 M12-81933
INFLUENCE OF ETCHING ADDITIVES ON FISH SCALE FLAWS IN ENAMEL COATING 67-12 M12-82268
FLUIDIZED BED EPOXY COAT PROTECTS SONAR 67-12 M12-82382
INVESTIGATION OF THE PROCESS OF FRICTION DEPOSITION OF BRONZE ONTO STEEL 67-12 M12-82629
LEAD PHOSPHATE PROTECTS STEEL AND PRESERVES ITS WELDABILITY 67-12 M12-82646
CHROMIUM COATED STEEL FOR CONTAINER APPLICATIONS 67-12 M12-82649
ELECTROPHORETIC PAINT APPLICATION AND INSTALLATION 67-12 M12-82706
BRUSH PLATING TECHNIQUES 67-12 M12-82707
PILOT LINE SUCCESS INDICATES FEASIBILITY OF NEW DIFFUSION-BONDING SYSTEM FOR NICKEL COATING OF STEEL 67-12 M12-82881
SLURRY-COAT AIMS AT FABRICATORS 67-12 M12-83135
INVESTIGATIONS OF THE ENAMEL ADHESION TO STEEL SHEET 67-12 M12-83400
INVESTIGATIONS OF CORROSION DAMAGE ON CD-PLATED PARTS AND THEIR RESULTS 67-12 M18-82689

CARBON STEELS, COATINGS

INVESTIGATION OF THE JET-STREAM WEAR IN BUILT-UP METAL 67-04 M17-66569
CORROSION BEHAVIOR OF ELECTROPLATES. PT. 2. CORROSION CURRENTS IN ZINC-STEEL AND CADMIUM-STEEL COUPLES AND DECAY CHARACTERISTICS OF STEEL 67-04 M18-66286

CARBON STEELS, COLD WORKING
DRAWING OF CARBON STEEL WIRE WITH EXTREME PRESSURE LUBRICATION. PT. 2. WIRE ELONGATION CHARACTERISTICS UNDER CRITICAL PRESSURE 67-06 M07-72399

CARBON STEELS, COMPOSITE MATERIALS
PRECISION STAMPING OF DRY FRICTION SLEEVE BEARINGS 67-01 M08-57247

CARBON STEELS, CONTAINERS
NEW METAL SUBSTRATES FROM THE CAN MAKERS VIEWPOINT 67-01 M20-58799

CARBON STEELS, CORROSION
QUICKER SINGLE-LAYER MICROCRACKED CHROMIUM 67-01 M12-57213
FORMATION OF THE ZINC PHOSPHATE FILM ON MILD STEEL 67-01 M12-57614
STRUCTURE OF HOT GALVANIZED COATINGS. PT. 2. EFFECT OF ALUMINUM ADDITIONS 67-01 M12-58304
NEW TECHNIQUE IN OVERLAY VESSEL CONSTRUCTION 67-01 M12-58766
PROBLEM OF THE ROLE OF HYDROGEN IN THE PROCESS OF FRACTURE OF STEEL IN NEUTRAL CORROSIVE MEDIUMS 67-01 M17-57666
RECOMMENDED DESIGN PRACTICES FOR STOPPING METAL CORROSION 67-01 M18-57232
HIGH TEMPERATURE OXIDATION OF MILD STEELS CONTAINING ARSENIC AND TIN AS TRAMP ELEMENTS 67-01 M18-57491
STUDIES ON ATMOSPHERIC CORROSION OF STEELS RELATED TO METEROLOGICAL FACTORS IN JAPAN. PT. 3. EFFECTS OF EXPOSURE ANGLES 67-01 M18-57613
HOW ZINC CONTROLS CORROSION 67-01 M18-57981
CORROSION BEHAVIOR OF STEEL WELDMENTS 67-01 M18-58394
STUDY ON LOW-TEMPERATURE CORROSION IN ACTUAL HEAVY OIL-FIRED BOILERS 67-01 M18-58696
ALUMINIUM AS SACRIFICIAL ANODE FOR CATHODIC PROTECTION. PT. 3. BEHAVIOUR IN ENVIRONMENT BASED ON CALCIUM HYDROXIDE 67-01 M18-58733
DECARBURIZING OF STEEL IN SALT BATHS 67-02 M10-61984
THE EFFECTS OF CLO ION ON THE CORROSION BEHAVIORS OF STAINLESS STEELS IN CONCENTRATION CAUSTIC SODA SOLUTIONS 67-02 M18-59736
REDUCING THE DEGREE TO WHICH WELDS IN CARBON AND STAINLESS STEELS ARE CORRODED IN ACID SOLUTIONS 67-02 M18-59792
CORROSION OF STEELS BY SEA WATER 67-02 M18-60043
THE DESTRUCTION OF METALS BY IMPACTING HIGH-ENERGY WATER DROPS 67-02 M18-60123
CORROSION MONITORING IN OIL WELLS WITH A RADIOACTIVE SPECIMEN 67-02 M18-60252
REFINERY REACTOR DESIGN TO PREVENT HIGH TEMPERATURE CORROSION 67-02 M18-60253
SUSCEPTIBILITY TO SULFIDE CORROSION CRACKING IN VARIOUS KINDS OF HIGH-STRENGTH STEEL. STUDIES ON SULFIDE CORROSION CRACKING OF WELDABLE HIGH-STRENGTH STRUCTURAL STEEL. PT. 1 67-02 M18-60268
EMBRITTLEMENT OF WELDABLE HIGH-STRENGTH STRUCTURAL STEELS BY SULFIDE CORROSION. PT. 2 67-02 M18-60269
INTERCRYSTALLINE CORROSION SUSCEPTIBILITY OF LOW CARBON AND STABILISED AUSTENITIC STAINLESS STEELS 67-02 M18-60915
INFLUENCE OF THE CHEMICAL COMPOSITION OF DEOXIDIZER ON THE STRENGTH OF CAST STEEL IN CORROSIVE MEDIUM 67-02 M18-60970
APPLICATIONS OF STEELS FOR DESALINATION PLANTS 67-02 M18-61538
ADHESIVE TAPES AS SHORT- AND LONG-TERM CORROSION INHIBITORS 67-02 M18-61642
CORROSION RESISTANCE OF STEELS USED FOR COMPONENTS OF METALLURGICAL EQUIPMENT 67-02 M18-61751
SCALING RATE OF PURE IRON AND MILD STEEL IN OXYGEN, WATER VAPOR AND CARBON DIOXIDE AT TEMPERATURES RANGING FROM 850 TO 1000 C 67-02 M18-62011
ANODIC CORROSION PROCESSES ON STEEL IN INERT AND OXIDIZING ATMOSPHERES 67-02 M18-62020
A RAPID METHOD FOR THE DETERMINATION OF CORROSION SUSCEPTIBILITY OF STEEL 67-03 M18-65183
ZINC AND ITS ALLOYS--APPLICATIONS 67-03 M18-65451
SOME VAPOR PHASE INHIBITOR EXPERIMENTS 67-03 M18-65474
ADDITIVES PREVENT LOW CARBON STEEL CORROSION IN SULFUROUS ACID 67-03 M18-65475
A STAND FOR TESTING TUBULAR SPECIMENS IN HEAT TRANSFER CONDITIONS 67-03 M18-65613
INVARIABILITY, HESITATION OR RESTORATION OF DAMAGE IN WET-DRY FATIGUE PROCESS 67-03 M18-65663
EFFECT OF FLY ASH ON STEEL REINFORCEMENT 67-03 M18-65689
SURFACE PROTECTION BY METAL DIFFUSION 67-03 M18-65706
CORROSION PROTECTION OF WEATHER DECKS OF NAVAL SHIPS 67-03 M18-65730
CORROSION FATIGUE PERFORMANCE OF A CARBON STEEL IN BRINE CONTAINING AIR, H2S AND CO2 67-03 M18-65755
ANODIC POLARIZATION BEHAVIOR OF LOW ALLOY STEELS IN SULFURIC ACID SOLUTIONS 67-03 M18-65757
THE ALKALI CORROSION OF BOILER TUBES 67-03 M18-65823
PROGRESS IN THE BATTLE WITH CORROSION OF AUTOMOBILES 67-03 M18-65975
ACCELERATED CORROSION OF SHIPS BOTTOM PLATE 67-03 M18-65994
INHIBITION OF CORROSION OF STEEL IN AQUEOUS PHASE BY OIL-SOLUBLE POLAR RUST INHIBITOR 67-04 M18-66287
UNDERWATER COATINGS USE 67-04 M18-66313
PRODUCTS, DEVELOPMENTS, APPLICATIONS FOR CORROSION ENGINEERING--FLAME-SPRAYED ALUMINUM COATINGS FOR MARINE ENVIRONMENTS 67-04 M18-66319
EFFECT OF HEAT TREATMENT ON STRESS CORROSION CRACKING OF CARBON STEEL 67-04 M18-66861
METAL CORROSION AND POSSIBILITIES OF CORROSION PROTECTION 67-04 M18-66884
EFFECT OF LIME ON THE TRANSFORMATION OF SCALES DURING COOLING 67-04 M18-66989
WATER SOLUBLE SHALE PHENOLS AS CORROSION INHIBITORS FOR CARBON STEEL 67-04 M18-67293
CORROSION OF MILD STEEL IN THE TIDAL WATERS OF THE AFON DYFI AND A COMPARISON WITH THE RIVER THAMES 67-05 M18-68314
INVESTIGATION OF SCALE FORMING DURING HEATING OF METAL IN HOLDING FURNACES OF LIGHT SECTION AND ROD MILLS 67-05 M18-68334
SOME CORROSION PHENOMENA AND THEIR PREVENTION 67-05 M18-68610
PICKLING INHIBITORS IN H2SO4--TESTS WITH INORGANIC HALIDES AND THEIR MIXTURES 67-05 M18-68796
EFFECT OF CALORIZING ON FATIGUE AND CORROSION FATIGUE OF 45 CARBON STEEL 67-05 M18-69005
INFLUENCE OF SURFACE CONDITION ON PIT CORROSION OF PHOSPHATED MILD STEEL SHEETS 67-05 M18-69131
FRETTING CORROSION OF METALS 67-05 M18-69147
IMPROVING THE CAUSTIC BRITTLENESS RESISTANCE OF WELDED VESSELS 67-05 M18-69402
HYDROGENATION OF STEEL IN SULFIDE AND ALKALINE ELECTROLYTES 67-05 M18-69828
HYDROGEN CORROSION OF STRESSED METAL 67-05 M18-69829
INVESTIGATION OF SOME ACETYLENE COMPOUNDS FOR INHIBITION OF ACID CORROSION 67-05 M18-69833
CORROSION RESISTANCE OF SOME METALS IN MOLTEN ALUMINUM 67-05 M18-69836
EFFECTS OF THE PH OF WATER ON THE CORROSION OF PEARLITIC STEEL 67-06 M18-70154
USE OF AMMONIA TO SUPPRESS OXYGEN PRODUCTION AND CORROSION IN BOILING-WATER REACTORS 67-06 M18-70489
EFFECT OF ORGANIC CORROSION INHIBITORS ON CORROSION FATIGUE 67-06 M18-70490
CORROSION OF MILD STEEL DUE TO IMPINGEMENT IN THE MAKE-GAS STREAM 67-06 M18-70544
ON THE PLASTISOL-COATED STEEL WIRE FOR THE ARMOR OF SUBMARINE CABLE 67-06 M18-70582
THE CORROSION RESISTANCE OF PAINTED STEEL SHEETS AT VARIOUS ATMOSPHERIC RELATIVE HUMIDITIES 67-06 M18-71180
DERUSTING CORROSION SPECIMENS. STANNOUS CHLORIDE AS AN ACID DERUSTING INHIBITOR 67-06 M18-71229
SACRIFICIAL ZINC RIBBON ANODES--CATHODIC PROTECTION WITH RIBBON TYPE ZINC ANODES 67-06 M18-72334
HYDROGEN-STRESS RELATIONSHIPS 67-06 M18-72335
NITRITE AS A CORROSION INHIBITOR--CONTROLLING DEPLETION OF SODIUM NITRITE 67-06 M18-72339
SOLUTIONS FOR INDICATION OF BASIS METAL CORROSION 67-07 M18-72773
INVESTIGATING SCALING WHILE HEATING METAL IN CONTINUOUS FURNACES OF LIGHT-SECTION AND WIRE MILLS 67-07 M18-72862
INFLUENCE OF LOADING FREQUENCY AND HEAT TREATMENT ON CORROSION FATIGUE OF CARBON STEEL 67-07 M18-73168

CARBON STEELS

ELECTROCHEMICAL INVESTIGATION OF STRESS CORROSION CRACKING AND ITS PRACTICAL APPLICATION 67-07 M18-73696
DONT DISCOUNT STEEL FOR DESALINATION PLANTS 67-07 M18-73800
SOME FACTORS AFFECTING THE INITIATION AND PROPAGATION OF CORROSION-FATIGUE CRACKS IN A HIGH CARBON STEEL 67-07 M18-74163
APPARATUS FOR TESTING TUBULAR SPECIMENS DURING HEAT TRANSFER 67-08 M18-74538
PRACTICAL CORROSION PROBLEMS IN RELATION TO WELDED JOINTS. PT. 1. SPECIAL CHARACTERISTICS OF THE WELDING PROCESS WHICH CAN CAUSE CORROSION PROBLEMS 67-08 M18-74701
CORROSION CONTROL AT WELDED JOINTS IN CONSTRUCTIONAL STEELS 67-08 M18-74703
THIOUREA DERIVATIVES AS VAPOR-PHASE CORROSION INHIBITORS 67-08 M18-75063
EFFECT OF THIOUREAS ON CORROSION OF MILD STEEL IN AQUEOUS MEDIA 67-08 M18-75642
EFFECT OF SOME ORGANIC PHOSPHORUS COMPOUNDS ON THE CORROSION OF LOW CARBON STEEL IN HYDROCHLORIC ACID SOLUTIONS 67-08 M18-75774
NEW ACCELERATED TEST METHODS FOR THE INVESTIGATION OF CORROSION RESISTANCE OF SURFACE-PROTECTED STEEL SHEET--CORROSION TEST OF PHOSPHATIZED BUT NOT PAINTED STEEL SHEET 67-09 M18-76706
CORROSION OF MILD STEEL IN SEAWATER 67-09 M18-77229
INVESTIGATION OF THE HYDROMECHANICAL EFFECT OF THE IMPACT OF DROPS 67-09 M18-77351
INVESTIGATION ON THE DAMAGE TO STEELS UNDER THE EFFECT OF MOIST HYDROGEN SULPHIDE 67-09 M18-77383
RUPTURE BEHAVIOR OF TENSILE TEST BARS OF A TUBE STEEL WITH A MINIMUM YIELD POINT OF 30 KG/MM2 IN SOLUTIONS AND GASES CONTAINING HYDROGEN SULPHIDE 67-09 M18-77384
DECARBONIZATION OF STEEL IN SALT BATHS 67-10 M10-78841
INTERGRANULAR FISSURIZATION --CRACKING-- OF STEEL --1 PER CENT C-- BY LIQUID LI 67-10 M14-79892
PROGRESS IN THE BATTLE WITH CORROSION OF AUTOMOBILES 67-10 M18-78501
IMPROVING THE RESISTANCE OF WELDED CONTAINERS TO ALKALINE BRITTLENESS 67-10 M18-78506
INFLUENCE OF FLUORINE IONS ON CORROSION OF OKH18N10T STEEL IN WATER AND HIGH-PRESSURE STEAM 67-10 M18-78538
NONUNIFORM CORROSION FAILURE AND CORROSION PROTECTION OF STEEL SMOKESTACKS 67-10 M18-78544
STUDIES IN CORROSION OF MAGNETITE-COATED MILD STEEL IN WATER 67-10 M18-78611
PITTING CORROSION AND ITS PREVENTION ON COATED UNDERGROUND PIPELINES 67-10 M18-79562
CORROSION OF STAINLESS CHROMIUM-NICKEL STEEL IN MOLTEN LITHIUM 67-10 M18-79642
GASEOUS CORROSION RESISTANCE OF STEELS USED FOR COMPONENTS OF METALLURGICAL EQUIPMENT 67-10 M18-79667
APPLICATION OF STEELS FOR DESALINATION PLANTS 67-11 M18-80292
CORROSION CRACKING OF HIGH-STRENGTH STRUCTURAL STEELS 67-11 M18-80583
PRINCIPAL METHODS OF PROTECTING STEEL FROM HYDROGEN CORROSION 67-11 M18-80593
PROTECTING STEEL FROM HYDROGEN EMBRITTLEMENT IN ACID MEDIA BY USING INHIBITORS 67-11 M18-80600
THE CORROSION OF MILD STEEL IN BOILING SALT SOLUTIONS 67-11 M18-80706
USE OF SHEET PRETREATED BY ZINC COATING IN THE FABRICATION OF CABINETS FOR ELECTRICAL APPARATUS 67-11 M18-81236
EFFECT OF KATAPIN K ON THE CORROSION BEHAVIOR OF CERTAIN METALS AND ALLOYS IN SULFURIC ACID 67-11 M18-81282
SELECTION OF INHIBITORS FOR LONG-TERM CONSERVATION OF WATER SYSTEMS 67-11 M18-81283
THE NATURE OF BRITTLE FRACTURE OF IRON AND STEEL IN ACID MEDIA 67-11 M18-81292
ATMOSPHERIC EFFECTS CAN BE CORRELATED 67-11 M18-81360
CORROSION CRACKING IN FERTILIZER EQUIPMENT 67-11 M18-81488
ATMOSPHERIC CORROSION OF CARBON AND LOW ALLOY CAST STEELS 67-11 M18-81517
CORROSIVENESS OF VARIOUS ATMOSPHERES 67-11 M18-81524
CORROSION AND HEAT TRANSFER--A REVIEW 67-11 M18-81549
PRACTICAL APPLICATIONS OF CORROSION-TESTING APPARATUS UNDER HEAT TRANSFER CONDITIONS 67-11 M18-81550
CORROSION OF AUTOCLAVE JACKETS SUBJECTED TO A STEAM-WATER CYCLE 67-11 M18-81553
CORROSION RATES OF MILD STEEL IN COASTAL, INDUSTRIAL, AND INLAND AREAS OF NORTHERN CALIFORNIA 67-12 M18-81756
CORROSION AS A FACTOR IN THE WEAR OF TUBE-MILL LINERS 67-12 M18-81802
SOME ASPECTS OF CORROSION PROBLEMS ASSOCIATED WITH STORAGE TANKS 67-12 M18-82130
STRESS CORROSION CRACKING OF CARBON STEEL 67-12 M18-82186
HYDROGEN ABSORPTION OF STEEL IN ALKALINE SULFIDE ELECTROLYTES 67-12 M18-82262
HYDROGEN CORROSION OF STRESSED METAL 67-12 M18-82263
CORROSION RESISTANCE OF CERTAIN METALLIC MATERIALS IN MOLTEN ALUMINUM 67-12 M18-82269
STEAM CORROSION AND STEAM CORROSION INHIBITION 67-12 M18-82356
THE EFFECTS OF ATMOSPHERE ON FATIGUE CRACK PROPAGATION 67-12 M18-82827
CORROSION RESISTANCE OF CARBON STEEL WELDS AND STAINLESS STEEL WELDS IN SOME ARGRESSIVE MEDIA 67-12 M18-83193
STUDY ON ELECTROLYTIC MACHINING PROCESS. PT. 12. CORROSION OF MILD STEEL IN SODIUM CHLORIDE SOLUTION 67-12 M18-83225
LOW ALLOY STEELS RESISTANT TO NITRATES AND TO STRESSES 67-12 M18-83511

CARBON STEELS, CORROSION TESTS
NEW ACCELERATED CORROSION TESTS FOR SURFACE-PROTECTED STEEL SHEET. PT. 3. QUANTITATIVE CORROSION TESTS ON PHOSPHATED AND PAINTED SHEET 67-08 M18-75665

CARBON STEELS, CRYOGENIC PROPERTIES
IMPROVING THE COLD SHORTNESS OF STEEL CASTINGS 67-04 M17-67509
WHATS SO TOUGH ABOUT CRYOGENIC COLD 67-06 M15-70649

CARBON STEELS, CRYSTAL GROWTH
ORIENTED NUCLEATION IN THE FORMATION OF ANNEALING TEXTURES IN IRON 67-08 M14-75582
GROWTH OF WIDMANSTATTEN CRYSTALS OF CEMENTITE IN STEEL 67-09 M14-77283

CARBON STEELS, CRYSTAL LATTICES
EFFECT OF COLD PLASTIC DEFORMATION AND OF THE QUANTITY OF CARBON ON THE DISLOCATION STRUCTURE OF CARBON STEELS 67-02 M13-59580
THE INFLUENCE OF DEFORMATION ON COHERENCE LENGTH, LATTICE DISTORTIONS AND STACKING FAULT PROBABILITY OF UNIAXIALLY STRAINED HOMOGENEOUS AND HETEROGENEOUS ALLOYS 67-02 M13-60876
ON THE CRYSTAL STRUCTURE OF QUENCHED STEEL 67-04 M14-67383
SIMILARITIES BETWEENTHE MARTENSITIC AND COLD WORKED STRUCTURES OF STEELS 67-10 M13-79947
CRYSTAL STRUCTURE OF QUENCHED STEEL 67-10 M14-80014
SUBSTRUCTURE OF MARTENSITE IN CARBON STEELS 67-12 M13-81835
ON THE CRYSTAL STRUCTURE OF ALPHA- AND KAPPA PRIME-MARTENSITE OF HIGH-CARBON STEEL 67-12 M13-82335
DIMENSIONAL VARIATION OF STEEL MOSAIC UNITS AT LOW TEMPERATURES 67-12 M13-83361
A MODEL FOR CONCENTRATED INTERSTITIAL SOLID SOLUTIONS--ITS APPLICATION TO SOLUTIONS OF CARBON IN GAMMA IRON 67-12 M14-82574

CARBON STEELS, CUTTING
ACTION OF GASEOUS ENVIRONMENT IN METAL CUTTING--SURFACE ROUGHNESS AND TOOL FORCES WHEN MACHINING WITH OXYGEN JET 67-01 M08-57590
CUTTING WITH GRINDING DISKS AT ELEVATED TEMPERATURES 67-01 M08-58612
STUDY OF THE METAL CUTTING PROCESS DURING VIBRATION LOADING 67-02 M08-61216
OXYGEN-FLUX CUTTING OF A FOUR-LAYER BIMETAL PIECE 67-03 M08-65056
PULSED OXYGEN CUTTING 67-03 M11-65052
THE PREPARATION OF METAL BILLETS BY BARCROPPING 67-05 M08-69874
SURFACE ROUGHNESS FORMATION IN METAL CUTTING

67-06 M19-72147
HUGE SHEARING LINE SPEEDS STEELCASE SHEETS
67-07 M08-73211
OXY-FLUX CUTTING OF FOUR LAYER CLAD METAL SANDWICH
67-07 M08-73977
PULSE OXYGEN CUTTING 67-07 M11-73973
CONTACT ARC FLASH CUTTING OF FERROUS AND NONFERROUS ALLOYS 67-08 M11-75417
PLASMA ARC CUTTING 67-09 M07-77914
AIR PLASMA ARC CUTTING OF METALS WITH A PLASMATRON WITH A ZIRCONIUM CATHODE
67-09 M11-78130
HIGH QUALITY PLASMA ARC CUTTING AND PIERCING
67-11 M08-80408
ARC CUTTING OF FERROUS AND NON-FERROUS METALS WITH A ROTATING DISC ELECTRODE 67-12 M11-82038

CARBON STEELS, DECARBURIZING
A MATHEMATICAL EXPRESSION OF THE KINETIC MECHANISM OF JOINT OXIDATION OF CARBON AND CHROMIUM WHEN BLOWING A HIGH-CHROMIUM POOL WITH OXYGEN
67-01 M04-57179

CARBON STEELS, DEFORMATION
DEFORMATION TWINNING IN SHOCK-LOADED PEARLITE
67-04 M17-66539

CARBON STEELS, DEOXIDIZING
EFFECT OF COMPLEX DEOXIDATION ON THE PHYSICAL AND MECHANICAL PROPERTIES OF MEDIUM-CARBON STEEL
67-01 M04-57128
USE OF RARE EARTH ELEMENTS FOR PROCESSING RAIL STEEL 67-01 M04-57176
ADDITIONS OF ALUMINIUM FOR DEOXIDATION OF STEEL
67-08 M04-74383

CARBON STEELS, DIFFUSION
STRUCTURE OF THE DIFFUSION LAYER OF A CARBON-ANTIMONY TREATED STEEL 67-02 M14-60073
DIFFUSION IN CAST STEELS DURING HOMOGENISING ANNEALS 67-02 M14-60504
MASS-TRANSFER FROM SOLID METAL CYLINDER INTO LIQUID METAL 67-02 M15-61852
STUDY OF DIFFUSION ON THE PHASE BOUNDARIES
67-03 M14-65786
SOLUBILITY OF RARE EARTH METALS IN IRON
67-06 M14-69985
DISSOLUTION KINETICS OF STEEL IN COPPER AND OF COPPER IN ALUMINUM UNDER WELDING CONDITIONS
67-09 M11-78116
TEMPERATURE DEPENDENCE OF INTERGRANULAR ADSORPTION OF CARBON AND PHOSPHORUS IN IRON AND STEEL
67-09 M14-77366
SOME LAWS REGARDING CHANGES IN THE PARAMETERS DO AND Q DURING DIFFUSION IN METALS AND ALLOYS
67-10 M14-79634
RESEARCH INTO THE DIFFUSION OF COBALT IN STEEL
67-10 M14-79658
INFLUENCE OF ELECTRICAL CONDITIONS ON THE DIFFUSION OF HYDROGEN IN IRON AND CARBON STEELS
67-10 M14-79986
THE CONTROLLING STAGE OF CARBON TRANSPORT IN THE CARBON STEEL-SODIUM MELT-CHROMIUM-NICKEL STEEL SYSTEM 67-11 M14-80581
DISTRIBUTION OF CATHODICALLY PRODUCED HYDROGEN IN STEEL SURFACE LAYERS 67-12 M14-82429

CARBON STEELS, DIMENSIONAL MEASUREMENTS
THICKNESS GAGING--WHERE THE CUSTOMERS MIKE IS ALWAYS RIGHT 67-09 M19-76497

CARBON STEELS, DRAWING
ELECTRON MICROSCOPIC INVESTIGATION OF THE DEFORMATION PROCESSES IN PEARLITIC STRUCTURES DURING WIRE DRAWING 67-04 M14-67203
EVALUATION OF STEEL WIRE DRAWING LUBRICANTS USING RADIO ISOTOPE P32 67-06 M07-71136
THE RELATIONSHIP BETWEEN COOLING CONDITIONS AND MECHANICAL PROPERTIES IN THE MANUFACTURE OF WIRE ROD. PT. 1 67-08 M07-75070
THE PROPERTIES OF WIRE ROD WITH CONTROLLED COOLING. PT. 2 67-08 M07-75071

CARBON STEELS, ELECTRICAL PHENOMENA
INFLUENCE OF LOWER CHLORIDES OF TITANIUM ON THE ELECTRODE POTENTIALS OF CERTAIN METALS IN MOLTEN SALTS 67-09 M15-76510

CARBON STEELS, ELECTROPLATING
ELECTROLYTES FOR PLATING WITH CU-NI AND QUALITY OF THE ELECTROPLATES 67-04 M12-67287

CARBON STEELS, EXTRUSION
MOLYBDENUM DIES FOR THE EXTRUSION OF STEEL SHAPES
67-01 M07-57917
EXTRUSION OF STEEL 67-02 M07-60217
DETERMINATION OF THE COLD EXTRUSION STRESS WITH THE AID OF CORRELATION ANALYSIS 67-02 M07-60675
SOME EXPERIMENTS AND DYNAMIC CONSIDERATIONS ON IMPACT EXTRUSION 67-02 M07-60998
NEW OPPORTUNITIES IN COLD EXTRUDED STEEL
67-02 M08-58976
SELECTION OF STEELS AND HEAT TREATMENTS FOR EASE OF COLD EXTRUSION. PT. 1 67-03 M07-65761
STEEL WORKING PROCESSES. PRINCIPLES AND PRACTICE OF FORGING, ROLLING, PRESSING AND OTHER METHODS OF METAL FORMING 67-03 M08-65829
ON THE FRACTURE OF LOW-PLASTICITY MATERIALS DURING PRESSING 67-04 M07-67044
ON THE HIGH ENERGY-RATE WORKING OF STEEL--THE IMPACT EXTRUSION OF STEEL BELOW 900 C
67-04 M07-67581
DETERMINING THE HIGHEST DEGREE OF DEFORMATION DURING REDUCTION OF HOLLOW CYLINDRICAL BILLETS IN A TAPERED DIE 67-04 M08-67040
INVESTIGATION OF SURFACE CHANGES DURING FORWARD EXTRUSION 67-05 M07-68564
THE HIGH-SPEED EXTRUSION OF SOME COMMON METALS
67-05 M08-68719
DEVELOPMENT AND STATUS OF THE APPLICATION OF THE EXTRUSION PROCESS TO STEEL 67-06 M07-70452
COLD EXTRUSIONS HOT NEW LOOK 67-07 M07-73309
HIGH SPEED IMPACT EXTRUSION OF METALS
67-07 M07-74090
COLD EXTRUSION OF PIECES FROM LOW-CARBON STEELS
67-07 M08-73957
HOW TO SELECT STEELS FOR COLD EXTRUSION
67-08 M07-74726
GRAPHICAL DETERMINATION OF EXTRUSION PRESSURE AND OF WORK OF DEFORMATION DURING UPSETTING AND COLD EXTRUSION 67-12 M07-82445
TEMPERATURE CONDITIONS OF THE STAMPING TOOL IN FLUID STAMPING 67-12 M08-82064
COLD EXTRUSION HEADS FOR BIGGER PARTS, BIGGER MARKETS 67-12 M08-82599

CARBON STEELS, FATIGUE /MATERIALS/
SHAPE OF THE FATIGUE CURVE OF MILD STEEL
67-01 M17-57691

CARBON STEELS, FILLER METAL
HIGH PRESSURE FEEDWATER HEATERS WELDED QUICKLY AND MORE EFFICIENTLY WITH SEMIAUTOMATIC PROCESS
67-02 M11-61579

CARBON STEELS, FORGING
WALL PRESSURE WHEN FORGING AND FILLING OUT CORNERS IN CLOSED DIES 67-01 M07-57241
FORGING FACTORS--ELEMENTS OF DEFORMATION AND FRACTURE. PT. 2 67-01 M07-57952
FORGING METALLURGY--STEEL. PT. 1
67-02 M07-59034
COLD FORMING 67-02 M07-59631
PLASTIC WORKING OF METALS WITH SEPARATE ZONES OF DIFFICULT DEFORMATION 67-02 M07-60064
FORGING METALLURGY--STEEL. PT. 2. WHICH ALLOY
67-02 M07-61093
EFFECTS OF STRETCHING AND UPSETTING ON THE MECHANICAL PROPERTIES OF OPEN-DIE FORGINGS
67-02 M07-62098
FORGING TODAY 67-03 M07-65944
POTENTIAL OF INDUCTION HEATING 67-04 M01-66399
CHARACTERISTICS OF THE PROCESS OF UPSETTING UNDER PULSATING LOADS 67-04 M07-67043
DROP FORGING 67-04 M07-67371
FORGING METALLURGY--STEEL. PT. 5. COLD FORGING
67-04 M07-68131
EVALUATING THE EFFECTIVENESS OF LUBRICATION IN UPSETTING ON MECHANICAL PRESSES
67-04 M08-67041
STUDY GIVES GREEN LIGHT TO SWING FORGE AT ROBLIN
67-05 M07-68445
THE DISTRIBUTION OF SHAPE CHANGE IN FORGING
67-05 M07-68566
COLD FORGING. LESS MACHINING, LOWER COSTS
67-05 M07-69315
CIRCULAR ROLLING. MANUFACTURE OF SEAMLESS RING-SHAPED PARTS 67-05 M08-69319
HEATING IN THE DROP FORGE. PT. 3. THE CASE FOR ELECTRICITY 67-07 M07-72761
HEATING IN THE DROP FORGE. PT. 4. FORMATION AND PROPERTIES OF SCALES ON IRON-BASE ALLOYS
67-07 M07-73618
PRODUCING FORGINGS FROM CONTINUOUSLY CAST RECTANGULAR BILLETS 67-08 M07-75488
CHOOSING ALLOY STEEL BARS FOR FORGING
67-08 M07-75496
DEFORMATION RESISTANCE AND DEFORMATION EFFICIENCY IN UPSETTING 67-11 M07-80844
STUDY OF THE MULTIOPERATIONAL CLOSED IMPRESSION

DIE FORGING PROCESS 67-12 M07-82063
FORGING INDUSTRY STANDARDS. A BUYER SERVICE 67-12 M07-82701
AN EXPERIMENT IN PRODUCING CYLINDRICAL GEAR FORGINGS WITH FINISHED TEETH ON HIGH-SPEED EQUIPMENT 67-12 M08-82062

CARBON STEELS, FORGINGS
QUALITATIVE ANALYSIS OF FORGINGS OBTAINED FROM AIR AND VACUUM-CAST INGOTS 67-09 M01-78001

CARBON STEELS, FORMING
JONES & LAUGHLINS HIGH-SPEED 80-IN. HOT STRIP MILL 67-03 M07-65920
YOUNGSTOWNS 80-IN. COLD ROLLED SHEET MILL AT INDIANA HARBOR 67-03 M07-65925
BETHLEHEMS BURNS HARBOR HOT STRIP MILL IS IN PRODUCTION 67-03 M07-65926
DESIGN, CONSTRUCTION AND INITIAL PRODUCTION OF THE NO. 3 WIRE ROD MILL OF SUMITOMO METAL INDUSTRIES KOKURA STEEL WORKS 67-03 M07-65929
JET-AGE JOBS FOR FORM ROLLING 67-05 M08-68307
TO BEAT THE COST OF COLD FORMING--TRY WARM FORMING 67-05 M08-68664
A SURVEY OF H. E. R. FORMING 67-05 M08-69736
FACILITIES AND TOOLING FOR EXPLOSIVE FORMING AND SOME ECONOMIC ASPECTS OF H. E. R. FORMING 67-05 M08-69737
ELECTROHYDRAULIC FORMING 67-05 M08-69738
PROBLEMS RELATING TO THE EXPLOSIVE FORMING OF FERROUS ALLOYS 67-05 M08-69748
SOME ASPECTS OF HIGH ENERGY RATE FORMING RESEARCH AT R. A. R. D. E. 67-05 M08-69750
MATERIAL ASPECTS OF HIGH ENERGY RATE DEFORMATION AT AMBIENT AND ELEVATED TEMPERATURES 67-05 M17-69743
FUNDAMENTAL STUDY OF METAL FLOW IN STEEL FORGING. PT. 1 67-06 M07-71316
STRETCH-DRAW FORMING--SOME DETAILS OF THE CYRIL BATH PROCESS 67-06 M08-72048
CALCULATING THE FORCES FOR STAMPING THE CENTER PART OF A BOTTOM USING A SPHERICAL PUNCH AND DIE 67-08 M08-75486
STAMPING OF LIQUID STEEL 67-09 M08-76409
REINFORCING RIBS IN COLD STAMPED PARTS 67-09 M20-76411
CONTROL OF SPRINGBACK BY POSITIVE EDGE RESTRAINT DURING HIGH ENERGY DEFORMATION 67-10 M08-79527
PUNCH-TO-DIE CLEARANCES IN STEEL RULE DIES DIES--THEIR IMPORTANCE AND AUTOMATIC PROVISION 67-10 M08-79530
BLANKHOLDING AND FORMING PRESSURES IN URETHANE DIES 67-10 M08-79537

CARBON STEELS, FRICTION
PROCESSES OF FRICTION AND WEAR AT DIFFERENT CONTENTS OF OXYGEN IN THE ZONE OF CONTACT 67-01 M17-57692

CARBON STEELS, GIRDERS
INTERDEPENDENCE OF TYPE OF SECTION AND STRENGTH OF STEEL 67-04 M17-66566

CARBON STEELS, GRAIN GROWTH
EFFECTS OF ALUMINIUM NITRIDE ON THE PROPERTIES OF STEEL 67-09 M14-77379

CARBON STEELS, HARD SURFACING
STRUCTURAL CHANGES IN METALS AFTER ELECTRIC SPARK ALLOYING 67-01 M11-57687
CALCULATING THE PARAMETERS OF BUILDING UP MASSIVE PIECES WITH A VIBRATING ELECTRODE 67-01 M12-57367
BUILDING UP WITH A THREE-PHASE ARC USING A POWDER WIRE 67-01 M12-57373
OXIDATION PROCESSES DURING AUTOMATIC BUILDING-UP OF STEELS WITH A COOLING LIQUID 67-01 M12-57527
DETERMINING THE STATIC CHARACTERISTICS OF SELF-REGULATING SYSTEMS OF WELDING WITH SHORT ARC CLOSINGS 67-01 M12-57528
EFFECT OF TECHNOLOGICAL FACTORS OF VIBROARC BUILDUP ON PHASE COMPOSITION OF 30KH10G10 STEEL 67-02 M11-62163
STRUCTURE OF TRANSITION ZONES IN ELECTROSLAG BUILDUP WITH A COMPOUND ELECTRODE 67-02 M11-62170
RECLAMATION OF WORNOUT SURFACES BY RESISTANCE WELDING TECHNIQUE 67-02 M12-60137
OXIDATION PROCESSES IN THE AUTOMATIC HARDFACING OF STEELS UNDER A COOLING LIQUID 67-02 M12-61146
DETERMINATION OF THE STATIC CHARACTERISTICS OF SELF-REGULATION SYSTEMS FOR ARC WELDING PROCESSES 67-02 M12-61147
THE EFFECTS OF VIBROARC METAL DEPOSITION ON THE PHASE COMPOSITION OF GRADE 30KH10G10 STEEL 67-04 M11-67178
FEATURES OF THE TRANSITION ZONES DURING ELECTROSLAG METAL DEPOSITION USING COMPOSITE ELECTRODES 67-04 M12-67177
WORN SURFACES RECONDITIONED BY RESISTANCE WELDING 67-04 M12-67677
MECHANIZED BUILDUP OF SEALING SURFACES 67-06 M11-70400
USE OF SUBLAYER FOR ELECTROSLAG DEPOSIT WELDING OF G13 STEEL ON LOW-CARBON STEEL 67-06 M11-72308
ANK-18 CERAMIC FLUX FOR MECHANIZED WEAR RESISTANT BUILDUP 67-08 M11-75414

CARBON STEELS, HARDENING
METHOD OF INCREASING THE LIFE OF STEELS AND ALLOYS 67-01 M17-58157
METHOD OF CHEMICAL-THERMAL TREATMENT OF METALS AND ALLOYS IN A HARD POWDER MIXTURE 67-02 M10-60798
CHANGE IN THE MICROHARDNESS DURING THE STRENGTHENING OF METALS AND ALLOYS BY NUCLEAR IRRADIATION 67-02 M17-60897
COMBINED METHOD FOR HARDENING STEEL 67-02 M17-61985
EFFECTS OF EXPLOSIVE FORMING ON THE STRAIN HARDENING IN STEEL 67-05 M14-69749
SURFACE HARDENING OF REINFORCING STEEL 67-06 M10-70928
HARDENING OF STEELS BY ELECTROMECHANICAL TREATMENT 67-07 M10-73790
STRENGTHENING OF STEELS WITH LASER BEAMS 67-08 M10-76042
THE NATURE OF HARDENING DURING LOW-TEMPERATURE TEMPERING OF COLD DEFORMED CARBON STEELS 67-09 M10-76440
HARDENING STEELS BY ELECTROMECHANICAL TREATMENT 67-09 M17-76553

CARBON STEELS, HARDNESS
STUDY OF THE EFFECT OF SURFACE-ACTIVE MEDIA ON STEEL BY MICROHARDNESS METHOD 67-01 M17-57132

CARBON STEELS, HEAT TREATMENT
AICHELIN NON-OXIDIZING HEAT TREATING PLANT FOR STEEL FORGINGS AT THE PASSAU GEAR WHEEL FACTORY 67-01 M10-57212
PREDICTING HEAT TREATMENT GROWTH 67-01 M10-57969
THE THIN-WIRE WAY TO HEAT TREATING 67-01 M10-58014
DECREASE IN THE TIME OF THE CARBONITRIDING PROCESS 67-01 M10-58035
BETHLEHEM INSTALLS NEW PLATE QUENCH AND TEMPER FACILITY 67-01 M10-58495
NEW 196-FT. ROLLER HEARTH FURNACE INSTALLED AT BETHLEHEM-LOS ANGLES 67-01 M10-58526
HIGH VACUUM ANNEALING 67-01 M10-58527
THE TWO-STAGE PRECIPITATION OF CARBON FROM FERRITE 67-01 M14-58460
LIQUID NITRIDING OF 10 AND 40H STEEL 67-01 M17-57143
INVESTIGATION OF THE EFFECT OF HIGH-SPEED HEATING DURING HEAT TREATMENT ON THE STRUCTURE AND PROPERTIES OF STRUCTURAL CARBON STEEL 67-01 M17-58038
PRINCIPLES OF HEAT TREATMENT OF STEELS. CARBON CONSTRUCTIONAL STEELS 67-02 M10-59085
THE ROLE OF THE LABORATORY IN HEAT TREATING 67-02 M10-59804
ISOTHERMIC TREATMENT OF STEEL WIRE IN FURNACES WITH SALT BATHS 67-02 M10-60259
HIGH-TEMPERATURE CARBURIZATION IN SALT AND GAS 67-02 M10-60501
THE SULFIDIZING AND SELENIDIZING OF STEEL AND GRAY CAST IRON 67-02 M10-60502
ON THE THERMOMECHANICAL TREATMENT OF STEEL 67-02 M10-60620
DEFORMATION OF STEEL DURING QUENCHING 67-02 M10-60846
OBTAINING CONTROLLED ATMOSPHERES IN FLUID BED HEATING FURNACES 67-02 M10-60854
ISOSCLERIC TEMPERING OF STEEL 67-02 M10-60857
BASIC HEAT TREATING PRACTICES 67-02 M10-60863
HOW STEEL GETS QUENCHED AND TEMPERED 67-02 M10-61815
CHANGE IN STRUCTURE AND HARDNESS OF 45 STEEL IN RELATION TO COOLING RATE 67-02 M10-61949
THERMOMECHANICAL PROCESSING OF RAIL STEEL

67-02 M10-62271
EFFECT OF BORATING ON FATIGUE AND CORROSION FATIGUE STRENGTH OF STEEL 67-02 M17-59654
THE PROPERTIES OF LOW-CARBON MARTENSITE. INTRODUCTION 67-02 M17-61695
CONDUCTIVE HEATING OF STEEL ROD SECTIONS FOR DIE FORGING 67-03 M07-65713
GEAR CAPACITIES MULTIPLY WITH BATH NITRIDING 67-03 M10-65013
POSSIBILITIES OF MEASURING AND REGULATING THE C-POTENTIAL DURING GAS-CARBURIZING AND ITS PRACTICAL SIGNIFICANCE 67-03 M10-65175
FRICTION HARDENING GIVES SUPERHARD STEELS 67-03 M10-65479
THE RECRYSTALLIZATION BEHAVIOR OF LOW-CARBON BASIC OXYGEN AND BASIC OPEN-HEARTH STEELS 67-04 M04-67905
CARBURIZATION OF CHROMIUM STEELS IN METHANE 67-04 M10-66002
REGULARITIES OF HEATING STEEL INGOTS BEFORE ROLLING 67-04 M10-66218
INFLUENCE OF AUSTENITIZING TEMPERATURE ON STABILITY OF SUPERCOOLED AUSTENITE IN REINFORCING STEELS 67-04 M10-66365
ISOTHERMAL QUENCHING OF BAINITIC TOOL STEELS 67-04 M10-66367
HOT HARDNESS OF HARD SURFACED LAYER OF VARIOUS MATERIALS 67-04 M10-66454
BORIDING IN A POWDER MIXTURE 67-04 M10-66459
OPEN-COIL ANNEALING 67-04 M10-66727
ON THE INTERMEDIATE ANNEALING DURING COLD FORMING PROCESS OF STEEL 67-04 M10-66893
HEAT TREATING STEEL IN SELF-GENERATING ATMOSPHERE FURNACES 67-04 M10-67328
FINAL REPORT ON STRESS RELIEVING OF CARBON STEEL AND CHROME-MOLYBDENUM WELDS 67-04 M10-67469
CHANGE IN STRUCTURE AND HARDNESS OF 45 STEEL DEPENDING ON COOLING RATE 67-04 M10-67783
EFFECTS OF THE CHEMICAL COMPOSITIONS OF GASEOUS NITRIDING MIXTURES ON THE NITRIDING PROCESS 67-04 M10-67879
EFFECT OF HEAT CYCLING ON PROPERTIES AND STRUCTURE OF ALLOYS CONTAINING PHASES WITH VARIOUS COEFFICIENTS OF LINEAR EXPANSION 67-04 M10-67922
HEAT-TREATING 65 MILLION SCREWS PER WEEK 67-04 M10-68055
HEAT TREATMENT PROBLEMS SOLVED BY NEW QUENCHING MEDIUM 67-04 M10-68173
ALPHATIZING--A NEW CHROMIZING METHOD 67-04 M12-67799
METALLOGRAPHY AND STRENGTHENING MECHANISMS OF 0.3 PER CENT C AND 0.3 PER CENT C-1.5 PER CENT CU STEELS. PT. 1. METALLOGRAPHY OF A 0.3 PER CENT C AND A 0.3 PER CENT C-1.5 PER CENT CU STEEL IN THE TEMPERED CONDITION 67-04 M14-66990
EFFECT OF COOLING RATE ON THE STRUCTURE AND PROPERTIES OF ST. 3 STEEL 67-05 M10-68332
FIRE-SAFE METAL QUENCHING 67-05 M10-68440
A SECTIONAL FURNACE FOR HEAT TREATING TUBES 67-05 M10-68559
EFFECT OF PATENTING OF ROD WIRE FROM ROLLING AND SPECIAL HEATS ON THE MECHANICAL PROPERTIES OF REINFORCING WIRE 67-05 M10-68561
DETERMINING THE CASE DEPTH IN HIGH-FREQUENCY INDUCTION SURFACE HARDENING 67-05 M10-68763
DEFECTS IN THE HEAT TREATMENT OF COLD ROLLED STEEL STRIP. PT. 1. DEFECT OF ANNEALED LOW-CARBON STEEL STRIP 67-05 M10-69076
FURNACE VERSATILITY IS KEY TO SUCCESS FOR NEW COMMERCIAL HEAT TREATER 67-05 M10-69200
NEW DEVELOPMENT IN THE FIELD OF SURFACE HARDENING 67-05 M10-69321
NITRIDING AND CARBONITRIDING OF STEELS BY MEANS OF AN AMMONIA-LANCED OXYACETYLENE FLAME 67-05 M10-69329
HEAT TREATMENT OF BAR STEEL AT ACIERIES DU TEMPLE 67-05 M10-69346
SINGULARITIES OF PATENTING WIRE IN A PSEUDOLIQUEFIED LAYER 67-05 M10-69898
STRENGTHENING MECHANISMS IN STEELS 67-05 M14-68472
A PRACTICAL VIEW OF DEFORMATION AND RECRYSTALLIZATION OF METALS 67-05 M14-69550
PRINCIPLES OF HEAT TREATMENT OF STEELS. PT. 6. CARBON CONSTRUCTION STEELS 67-05 M19-69347
INFLUENCE OF ULTRASONIC VIBRATIONS ON COOLING EFFICIENCY OF QUENCHING MEDIUM 67-06 M10-70057
HIGH-SPEED HEATING OF CARBON AND ALLOY STEEL 67-06 M10-70103
STUDY OF THE FEASIBILITY OF REDUCING RESIDUAL STRESSES IN CASTINGS 67-06 M10-70297
AUTOMATIC CONTROL OF THE PROCESS OF FULL THICKNESS INDUCTION HEATING 67-06 M10-70350
MORPHOLOGY OF MARTENSITE OF HYPOEUTECTOID CARBON STEEL AFTER REAUSTENITIZING 67-06 M10-70357
INVESTIGATION OF THE TEMPERATURE RANGES OF TEMPERING EFFECTS DURING RAPID HEATING 67-06 M10-70364
INDUCTION TEMPERING OF 60S2 STEEL 67-06 M10-70373
FUEL CONSUMPTION DURING NONSCALE HEATING OF STEELS 67-06 M10-70478
OPEN COIL ANNEALING AT EBBW VALE 67-06 M10-70559
QUENCHING STEEL PLATE ON THE FLY 67-06 M10-70728
GRAIN-REFINED C-MN STEELS 67-06 M10-70807
INITIAL AND CONTINUING EDUCATION IN THE FIELD OF HEAT TREATING AND HARDENING TECHNOLOGY. PT. 9 67-06 M10-71274
OPEN-COIL ANNEALING AT EBBW VALE 67-06 M10-71808
DROP FORGERS INSTALL NEW HEAT-TREATMENT PLANT 67-06 M10-71824

CARBON STEELS, HEAT TREATMENT
HEAT TREATMENT OF LOW-CARBON STEELS
HEAT TREATMENT OF LOW-CARBON STEELS 67-06 M10-71933
CONTINUOUS ANNEALING OF MILD STEEL STRIP 67-06 M10-71942
HEAT TRANSMISSION IN REHEATING AND HEAT-TREATMENT FURNACES--SOME RECENT DEVELOPMENTS 67-06 M10-71944
HEAT TREATMENT OF METALS 67-06 M10-71946
HEAT TREATMENTS AND THEIR EFFECTS ON FATIGUE STRENGTH OF PARTS 67-06 M10-72145
APPLICATION OF HIGH-TEMPERATURE ANNEALING 67-06 M11-71845
HEAT TREATMENT AS AN AID TO WELDING 67-06 M11-71940
INTERRELATION OF ISOTHERMAL AND CONTINUOUS-COOLING HEAT TREATMENTS OF LOW-ALLOY STEELS AND THEIR PRACTICAL SIGNIFICANCE 67-06 M14-71934
A MULTI-STAGE FURNACE FOR HEAT TREATMENT OF TUBES 67-07 M10-72470
INFLUENCE OF PATENTING OF ROLLED STOCK FROM ROLLING TEMPERATURE OR FOLLOWING SPECIAL REHEATING ON THE MECHANICAL PROPERTIES OF REINFORCING WIRE 67-07 M10-72472
ROLLER QUENCH IS UNIQUE FEATURE OF A NEW HEAT TREATING LINE 67-07 M10-72621
NEW SALT BATHS FOR LOW-TEMPERATURE HEAT TREATMENT OF STEEL 67-07 M10-72666
ON THE NATURE OF THE PROCESSES OCCURRING DURING THE TEMPERING OF QUENCHED LOW-CARBON STEEL 67-07 M10-72670
ANNEALING TRIALS ON STEEL WIRE IN VARIOUS FURNACE ATMOSPHERES 67-07 M10-72716
EFFECT OF COOLING RATE ON STRUCTURE AND PROPERTIES OF ST. 3 STEEL 67-07 M10-72860
TENIFER PROCESS OF SALT BATH NITRIDING 67-07 M10-72906
A NEW APPROACH TO BATCH ANNEALING 67-07 M10-72928
BATH CONTROL KEY IN NITRIDING GEARS 67-07 M10-72993
THE PROBLEM OF CASE HARDENABILITY 67-07 M10-73184
HEAT TREATMENT OF LARGE FORGINGS 67-07 M10-73717
INTENSIFYING THE HEAT TREATMENT OF LOW-ALLOY LOW-CARBON SHEET STEEL 67-07 M10-73791
THE BRIGHT-HARDENING OF VERY THIN-WALLED PARTS IN AN EXISTING MULTIPURPOSE RETORT FURNACE 67-07 M10-74214
QUENCH AND TEMPER INSTALLATION AT BETHLEHEMS BURNS HARBOR PLANT 67-07 M10-74222
THE HEAT WORK OF HOLDING FURNACES FOR NONSCALE HEATING 67-08 M10-74349
THE EFFECTIVENESS OF THERMALLY STRENGTHENING SHEET STEEL 67-08 M10-74595
HEAT TREATMENT OF STEEL BARS 67-08 M10-74751
FINISHING AND HEAT TREATMENT OF HEAVY PLATES 67-08 M10-74752
PRODUCTION-LINE HEAT TREATMENT OF LIGHT ENGINEERING

COMPONENTS--PRESENT TRENDS 67-08 M10-74753
QUENCHING OF SMALL FORGINGS OF STRUCTURAL STEELS FROM THE FORGING TEMPERATURE 67-08 M10-74979
INVESTIGATION ON THE EFFECT OF A SHORT-TIME RECRYSTALLIZING ANNEALING TREATMENT ON THE MECHANICAL TECHNOLOGICAL PROPERTIES OF UNALLOYED THIN STEEL STRIP, POOR IN CARBON, UNDER PARTICULAR CONSIDERATION OF QUENCH AGING 67-08 M10-75393
DEVELOPMENT IN EQUIPMENT AND PRACTICES FOR QUENCHING STEEL PLATES. PT. 1 67-08 M10-75498
USE OF PROTECTIVE AND REACTION GASES IN THE HEAT TREATMENT OF COLD FORMED STEEL BLANKS 67-08 M10-75510
DEFORMATION OF STEEL DURING QUENCHING 67-08 M10-76104
OBTAINING A CONTROLLED ATMOSPHERE IN A FURNACE WITH A BOILING LAYER 67-08 M10-76112
ISOSCLEROUS TEMPERING OF STEEL 67-08 M10-76115
AN EVALUATION OF TYPE 321 STAINLESS STEEL FOIL WRAP IN HARDENING TOOL STEEL PARTS 67-08 M10-76175
INTENSIFYING HEAT-TREATMENT CONDITIONS FOR LOW-ALLOY MILD STEELPLATE 67-09 M10-76554
QUENCHING AND TEMPERING OF HEAVY CARBON STEEL FORGINGS 67-09 M10-77200
MANUFACTURE OF MILDER STEEL SHEET BY CONTINUOUS ANNEALING PROCESS 67-09 M10-77333
PATENTING OF STEEL STRIP IN FLUIDIZED BED AFTER ROLLING 67-09 M10-77370
INFLUENCE OF COOLING RATES ON CRACK FORMATION DURING STEEL QUENCHING 67-09 M10-77403
AGING OF NONANNEALED AND HOT DEFORMED CAST CARBON STEEL 67-09 M10-77408
RAIL PRODUCTION WITH FULL HEAT TREATMENT 67-09 M10-77630
OXIDATION AND DECARBURIZATION OF STEEL WHEN ANNEALING IN A PROTECTIVE ATMOSPHERE OF PSO-09 GAS 67-09 M10-77641
A RAPID METHOD OF DETERMINING THE DECARBURIZING ACTIVITY OF FUSED SALTS 67-09 M10-78158
A CONSIDERATION ON THE EFFECT OF DEFORM-QUENCHING TREATMENT 67-09 M10-78211
EFFECT OF ULTRASONIC VIBRATIONS ON THE COOLING CAPACITY OF THE QUENCHING MEDIUM 67-10 M10-78803
BASIC PRINCIPLES OF HEAT TREATMENT OF STEELS FOR LOW-TEMPERATURE APPLICATIONS 67-10 M10-78856
THERMOMECHANICAL STRENGTHENING OF STEEL 67-10 M10-79211
THE HEAT TREATMENT OF STEEL PLATES 67-10 M10-79303
THE STRESS RELIEVING OF HIGH-CARBON WIRE 67-10 M10-79423
SUBMERGED INTENSIFIER GEAR HARDENING FOR LOW DISTORTION 67-10 M10-79525
EFFECT OF QUENCH RATE ON MECHANICAL PROPERTIES OF SUPRACRITICALLY ANNEALED AND QUENCHED MILD STEEL STRIP 67-10 M10-79768
EFFECT OF RAPID HEAT TREATING ON MECHANICAL PROPERTIES OF LOW-CARBON STEEL SHEET 67-10 M10-79770
VARIATION OF MECHANICAL PROPERTIES OF CARBON STEEL DUE TO AGING 67-10 M10-79856
CONSTITUTION, TTT CHARACTERISTICS AND HARDENABILITY OF A 0.3 PER CENT STEEL WITH AL ADDITIONS UP TO 2.45 PER CENT 67-10 M13-78334
INVESTIGATIONS ON TEMPERED STEELS. PT. 3 67-10 M14-79485
ON THE BEHAVIOURS OF THE PRECIPITATED SULPHIDE INCLUSIONS IN SOLID STEEL 67-10 M14-79993
APPLICATION OF AN EQUIVALENCE BETWEEN TIME AND TEMPERATURE TO THE STUDY OF CARBURIZING AND DECARBURIZING 67-11 M10-80145
CARBONITRIDED STEEL PARTS FIGHT WEAR, TAKE IMPACT 67-11 M10-80526
DISPENSING WITH HIGH TEMPERATURE TEMPERING 67-11 M10-80877
RAILS PRODUCED WITH FULL HEAT TREATMENT 67-11 M10-80918
OXIDATION AND ELIMINATION OF CARBON DURING ANNEALING IN A PSO-09 PROTECTIVE ATMOSPHERE 67-11 M10-80929
EFFECT OF THE AUSTENITIZATION TEMPERATURE ON THE STABILITY OF SUPERCOOLED AUSTENITE IN REINFORCING STEELS 67-11 M10-80967
RED HARDNESS OF HARDFACINGS OF DIFFERENT MATERIALS 67-11 M10-80995
BORONIZING WITH POWDERED MIXTURES 67-11 M10-81000
THE STRESS RELIEVING OF HIGH CARBON WIRE. PT. 2 67-11 M10-81243
RAPID HEATING OF STEEL FOR HOT WORKING. PT. 3. THE METALLURGICAL EFFECTS OF RAPID HEATING 67-11 M10-81364
MATERIALS AND HEAT TREATMENT 67-11 M10-81496
VIBRATORY STRESS RELIEVING 67-11 M10-81498
DECREASING METAL LOSSES IN RECUPERATIVE SOAKING PITS WITH CENTRAL HEATING 67-11 M10-81667
THE HIGH-TEMPERATURE HEAT AND MECHANICAL TREATMENT OF CARBON STEEL 67-12 M08-83385
RAPID HEATING OF STEEL FOR HOT WORKING. PT. 3. THE METALLURGICAL EFFECTS OF RAPID HEATING 67-12 M10-81947
PATENTING WIRE IN A FLUIDISED BED 67-12 M10-82152
EFFECT OF THE DEGREE OF STRUCTURAL DISPERSION ON THE PROPERTIES OF CAST MEDIUM-CARBON STEEL 67-12 M10-82192
RELATIONSHIP BETWEEN THE DIFFUSION OF C AND THE DISTRIBUTION OF TEMPERATURE WITHIN A CHARGE 67-12 M10-82841
THE HEAT TREATMENT OF STEELS 67-12 M10-82926
INDUCTION SURFACE HARDENING OF RAILROAD RAILS AND EQUIPMENT 67-12 M10-83107
THE HEAT TREATMENT OF STEELS 67-12 M10-83167
THE NATURE OF PROCESSES DURING TEMPERING OF COLD DEFORMED MEDIUM CARBON STEEL 67-12 M10-83441
INFLUENCE OF MULTIPLE THERMOMECHANICAL TREATMENT ON MECHANICAL PROPERTIES OF LOW CARBON STEEL 67-12 M10-83524
EFFECT OF REPETITION ON GAS NITRIDING CYCLES ON THREE TYPES OF STEEL 67-12 M10-83567
INFLUENCE OF REFINING OF AUSTENITIC GRAINS ON THE PROPERTIES OF LOW CARBON STEELS AFTER LOW-TEMPERATURE TEMPER 67-12 M17-83537

CARBON STEELS, HEATING
RECENT DEVELOPMENTS IN ELECTRIC REHEAT FURNACES 67-02 M07-59150
RAPID HEATING OF BILLETS FROM HOT STATE 67-02 M07-62279
DEVELOPMENT AND INVESTIGATION OF SPECIAL COMPOSITIONS OF GLASS FOR HEATING BILLETS 67-02 M10-59408
SLAB REHEATING 67-03 M07-65921
USING MOLTEN GLASS TO HEAT STEEL BILLETS 67-07 M10-73955

CARBON STEELS, IMPACT TESTS
TECHNICAL NOTE.. AN EVALUATION OF COOLING RATES IN CHARPY IMPACT SPECIMENS 67-06 M10-71685

CARBON STEELS, INCLUSIONS
THE DETERMINATION OF OXIDE INCLUSIONS IN STEEL 67-02 M04-60206

CARBON STEELS, INGOTS
SOME COMMENTS ON TECHNIQUES OF PRODUCING SEMIKILLED STRIP STEEL 67-02 M04-59570
THE HISTORY AND USE OF THE BIG-END-DOWN INGOT MOLD 67-04 M04-66951
IMPROVING THE QUALITY OF INGOT SURFACES BY TREATING THE METAL IN MOLDS WITH GRAPHITE 67-06 M04-71249
LAMINAR CRYSTALLIZATION OF ELECTROSLAG MELTED INGOTS 67-06 M13-72305
EFFECT OF ALUMINUM AND NITROGEN ON CRACK SENSITIVITY OF MEDIUM-CARBON STEEL INGOTS 67-09 M17-78002
THE LAYER BY LAYER SOLIDIFICATION OF ELECTROSLAG REMELTED INGOTS 67-11 M13-81577

CARBON STEELS, IRRADIATION
CORRELATION OF RADIATION DAMAGE TO STEEL WITH NEUTRON SPECTRUM 67-12 M16-82699
EFFECT OF CHEMICAL COMPOSITION AND NEUTRON IRRADIATION ON MECHANICAL PROPERTIES OF FE OF DIFFERENT GRAIN SIZE 67-12 M16-82808
THE PHYSICAL NATURE OF HOW STEELS ARE HARDENED BY LIGHT PULSES 67-12 M16-83308

CARBON STEELS, LAMINATES
LAMINATED MARTENSITIC WHITE IRONS 67-12 M17-82917

CARBON STEELS, MACHINING
HOW HEAT AFFECTS TOOL WEAR 67-01 M08-58509
STUDY ON THE MACHINABILITY OF COLD FINISHED STEEL BARS 67-01 M08-58556
WHAT ABRASIVE GRIT SIZE FOR MACHINING 67-01 M08-58571
MACHINABILITY AND METALLURGY OF RESULFURIZED LOW-CARBON FREE-MACHINING STEELS 67-01 M08-58688

MANUALLY PROGRAMED DRILLING AND MILLING OPERATIONS WITH A NUMERICALLY CONTROLLED TURRET DRILLING MACHINE 67-01 M08-58723
APPLICATIONS AND LIMITS OF THE BROACHING TECHNIQUE AT HIGH-CUTTING RATES 67-02 M08-59618
CUTTING FORCE CHARACTERISTICS AT HIGH CUTTING RATES 67-02 M08-60222
600 PARTS AN HOUR WITH ECM 67-02 M08-61129
PUTTING ACCURACY INTO EDM 67-02 M08-61813
THE ROLE OF CHEMICAL REACTIONS IN THE PREPARATION OF METAL SURFACES BY ABRASION 67-03 M08-65596
ELECTROCHEMICAL AND ELECTRODISCHARGE METAL WORKING 67-03 M08-65733
LONG TUBES, LONG PARTS--HEIL CUTS CYLINDER COSTS 67-04 M08-68102
FINE BLANKING REPLACES SIX STAMPING OPERATIONS 67-04 M08-68117
STUDY ON ELECTROLYTIC MACHINING PROCESS. PT. 7. THE EFFECTS OF THE CHANGE OF WORK MATERIAL ON THE SURFACE FINISH OF PRODUCTS MACHINED BY DIRECT CURRENT 67-05 M08-68903
THREAD ROLLING--FEEDS, REVS AND BLANK DESIGN 67-05 M08-69022
STUDY ON ELECTROLYTIC MACHINING PROCESS. PT. 9. EFFECT OF INHIBITORS IN SODIUM CHLORIDE SOLUTION ON THE SURFACE FINISH OF WORK MACHINED BY DIRECT CURRENT 67-05 M08-69281
CARBIDES FOR SCREW MACHINES. TESTS ON FREE-CUTTING STEELS. PT. 1 67-05 M18-69797
THE EFFECT OF TOOLS AND WORKING CONDITIONS ON THE BOUNDARY ZONES OF HARDENED STEELS AND CARBIDES WITH CONVENTIONAL AND ELECTROLYTIC GRINDING 67-06 M08-70045
FLEXIBLE LINE MAKES QUALITY PUMP GEARS 67-06 M08-71204
PRODUCTION EDM COMES OF AGE 67-06 M08-71450
MEASUREMENT OF CYCLIC TEMPERATURE CHANGE OF TOOL-CHIP INTERFACE IN CARBIDE FLY MILLING 67-06 M08-72265
TOOL CORRECTIONS AND ELECTROLYTE APPLICATIONS IN ELECTROCHEMICAL MACHINING 67-07 M08-72428
BELT GRINDING EFFICIENCY 67-07 M08-72796
ECM, AND THE SHAPE OF THINGS TO COME 67-07 M08-72799
ABRASIVE MACHINING--WHY AND WHEN 67-07 M08-73858
A SLIP-LINE FIELD SOLUTION FOR MACHINING WITH DISCONTINUOUS CHIPS 67-07 M08-74249
APPLICATIONS AND LIMITS OF BROACHING AT HIGH CUTTING SPEEDS 67-08 M08-74755
THE EFFECT OF SOME OPERATING VARIABLES IN VERTICAL SPINDLE ABRASIVE MACHINING OF MILD STEEL 67-09 M08-76461
FLOW STRESS CHARACTERISTICS AND THE MACHINING PROCESS 67-09 M08-77557
IS ECM USEFUL FOR EVERYDAY MATERIALS 67-09 M08-77903
AN ANALYSIS OF THE DEVELOPMENT OF CARBIDE TOOL CRATER WEAR 67-09 M08-78106
VIBRATORY GRINDING AND VIBRATORY POLISHING OF STEEL IN METALLOGRAPHY. PT. 2 67-09 M08-78182
MACHINABILITY OF STEELS. PT. 2 67-09 M08-78198
INFLUENCE OF SPARK MACHINING ON SURFACE LAYER STRUCTURE 67-09 M14-77413
FOUR RULES FOR BETTER SURFACE GRINDING PRODUCTIVITY 67-10 M08-78900
THE APPLICATION OF ELECTROEROSION METHODS IN THE PRODUCTION OF STAMPING DIES 67-10 M08-79502
DRILL DESIGN AND APPLICATION REQUIREMENTS FOR OPTIMUM COOLANT-FEEDING TWIST DRILL USAGE 67-10 M08-79504
THE FORMATION OF THE MICROPROFILE ON BURNISHED WORKPIECES 67-10 M08-79680
HONING AND ITS APPLICATION--A COMPARISON BETWEEN HONING AND GRINDING 67-10 M08-79682
THE ELYSIR METHOD--ELECTROCHEMICAL MACHINING 67-10 M08-79959
A NEW ELECTROLYTE FOR ELECTROCHEMICAL MACHINING. PT. 1. DEVELOPMENTAL STUDIES 67-11 M08-80828
CONTROL OF RESONANT VIBRATIONS CREATES NEW CONCEPT IN TOOLING 67-11 M08-81497
THE THEORY OF GRINDING. PT. 1 67-11 M08-81697
TWO VARIANTS OF DIE COUNTERSINKING OF HOLES 67-12 M08-82069
BRITISH LASER INVENTION WILL REVOLUTIONIZE METAL CUTTING 67-12 M08-82470
A STUDY OF THE EFFECT OF CUTTING FLUIDS ON THE METAL-CUTTING PROCESS 67-12 M08-82946
THE USE OF CUTTING TEMPERATURE AS A MEASURE OF THE MACHINABILITY OF STEELS 67-12 M08-82948
A SIZE OF CUT CONSTANT FOR MACHINABILITY EQUATIONS 67-12 M08-82950
RECENT DEVELOPMENTS IN PLASMA ARC MACHINING 67-12 M08-82951
CUTTING METALS WITH COMPRESSED AIR ARC AND ZIRCONIUM CATHODE 67-12 M08-83179
STUDY ON ELECTROLYTIC MACHINING PROCESS. PT. 11. EFFECT OF INHIBITOR IN SODIUM CHLORIDE SOLUTION ON THE SURFACE FINISH OF WORK MACHINED BY A SINGLE-PHASE HALF-WAVE RECTIFICATION CURRENT 67-12 M08-83224
EFFECTS OF GRINDING FLUIDS ON GRINDING PERFORMANCES IN FORCED INFEED PLUNGE GRINDING 67-12 M08-83545

CARBON STEELS, MAGNETIC PROPERTIES
MAGNETIC AND ELECTRICAL PROPERTIES OF QUENCHED AND TEMPERED CARBON STEELS 67-01 M15-58044
MOSSBAUER MEASUREMENT OF HYPERFINE FIELD IN MARTENSITE 67-05 M16-69096
UNALLOYED AND LOW-ALLOY CAST STEELS WITH INCREASED MAGNETIZATION PROPERTIES 67-11 M15-81543
NATURE OF THE CHANGE IN THE COERCIVE FORCE DURING DEFORMATION AND SUBSEQUENT TEMPERING OF CARBON STEELS 67-12 M15-82323

CARBON STEELS, MATERIALS TESTING
ULTRASONIC INSPECTION OF RAILWAY AXLES 67-01 M19-58520
THE SUITABILITY OF THE R9500-1E MAGNETIC INDUCTION TESTING DEVICE FOR THE DETERMINATION OF SURFACE DECARBURIZATION IN STEEL RODS 67-03 M19-65571

CARBON STEELS, MECHANICAL PROPERTIES
EFFECT OF HIGH HYDROSTATIC PRESSURES ON THE YIELD STRENGTH OF STEEL SPECIMENS DURING UNIDIRECTIONAL EXTENSION 67-01 M17-57139
TENSILE STRENGTH AND WEAR RESISTANCE OF STEEL IN RELATION TO QUENCHING TEMPERATURE 67-01 M17-57191
THE BEHAVIOUR OF STEEL TUBES FITTED WITH APERTURES AND SUBJECTED TO BENDING AND TORSION 67-01 M17-57204
NOTCH IMPACT STRENGTH, FRACTURE APPEARANCE AND TRANSITION TEMPERATURE AFTER VARIOUS HEAT TREATMENTS 67-01 M17-57381
RADIOGRAPHICALLY DETERMINED RESIDUAL STRESSES IN STEEL SPECIMENS SUBJECT TO PLASTIC DEFORMATION IN TENSION 67-01 M17-57384
SUBSTRUCTURAL STRENGTHENING IN MATERIALS SUBJECT TO LARGE PLASTIC STRAINS 67-01 M17-57407
FATIGUE STRENGTH OF CAST MEDIUM-CARBON STEEL 67-01 M17-57475
SOME OBSERVATIONS ON NIOBIUM IN STEEL 67-01 M17-57516
A FATIGUE TESTING MACHINE OF ROTARY-LOADING TYPE FOR LIQUID METAL ENVIRONMENT AT HIGH TEMPERATURE AND ITS APPLICATION TO STUDY OF FATIGUE STRENGTH OF LOW-CARBON STEEL IN MOLTEN LEAD AND ZINC 67-01 M17-57520
MECHANICAL PROPERTIES OF THERMALLY STRENGTHENED PIPE STEELS IN PLANE STRESS CONDITIONS 67-01 M17-57644
DETERMINATION OF THE VALUE OF IMPACT STRENGTH OF STEEL 67-01 M17-57658
EFFECT OF HYDROGEN OF BOS STEEL 67-01 M17-57671
RESISTANCE OF STEELS TO BRITTLE CRACK PROPAGATION DEFINED 67-01 M17-58064
HARDNESS DETERMINATION BY MEASURING THE DEPTH OF PENETRATION 67-01 M17-58123
EFFECT OF STRAIN AGING ON THE MECHANICAL PROPERTIES OF KILLED FINE-GRAINED STEELS 67-01 M17-58176
THE EFFECT OF ELECTROCHEMICAL CONDITIONS ON THE FATIGUE STRENGTH OF PLAIN CARBON STEEL 67-01 M17-58339
THE EFFECT OF NICKEL PLATING ON THE FATIGUE STRENGTH OF CARBON STEEL 67-01 M17-58387
A NEW LARGE IMPACT TORSION TESTING MACHINE 67-01 M17-58389
METALLURGICAL ADVANTAGES AND ADVANCES IN HEAT TREATED STEELS, WITH PARTICULAR REFERENCE TO THE WELDABLE CONSTRUCTIONAL STEELS. PT. 3 67-01 M17-58449
STUDY ON THE SEIZURE PHENOMENA IN FRICTION OF METAL 67-01 M17-58547

INFLUENCE OF ULTRASONIC VIBRATION ON METALLIC FRICTION 67-01 M17-58560
PLASTICITY OF BODY-CENTERED CUBIC METALS AT HIGH STRAIN RATE 67-01 M17-58598
LOW-CYCLE FATIGUE OF STEEL STRUCTURES--AN EXPERIMENTAL INVESTIGATION WITH FULL SCALE SHIP STRUCTURAL COMPONENTS 67-01 M17-58599
THE FRACTURE BEHAVIOR OF MATERIALS AND SAFETY IN STRUCTURES 67-01 M17-58793
POSSIBILITIES AND ASPECTS OF THE EVALUATION OF TOUGHNESS TESTS WITH RESPECT TO BRITTLE FRACTURE SAFETY 67-01 M17-58795
HIGH STRENGTH LOW CARBON STEELS IN RIGID PACKAGES 67-01 M20-57985
STUDY OF THE MACHINABILITY OF SCREW STOCK STEELS BY MEANS OF RADIOACTIVE TOOLS 67-02 M08-60656
MINIMIZING RESIDUAL INTERNAL STRESSES IN METAL PARTS BY VIBRATIONAL-THERMAL TREATMENT 67-02 M10-60844
INDUCTION HARDENING OF AUTOMOBILE HALF AXLES 67-02 M10-60849
BASIC PRINCIPLES OF HEAT TREATMENT OF STEELS 67-02 M14-60864
ON THE YIELD POINT OF MILD STEEL 67-02 M17-58803
ON THE YIELD POINTS OF MILD STEEL BEAMS UNDER UNIFORM BENDING 67-02 M17-58804
CROSS-SECTIONAL AND LONGITUDINAL YIELDING OF MILD STEEL CYLINDERS UNDER TORSION 67-02 M17-58805
LIMIT OF THE GREATEST STRESS AT YIELD POINT 67-02 M17-58806
YIELD POINTS OF ROUND BARS OF MILD STEEL UNDER COMBINED BENDING AND TORSION 67-02 M17-58807
YIELD POINTS AND PLASTIC DEFORMATIONS OF MILD STEEL CYLINDERS UNDER INTERNAL PRESSURE 67-02 M17-58808
YIELD POINT OF MILD STEEL UNDER SHARPLY CONCENTRATED STRESS 67-02 M17-58809
STRENGTH OF SURFACE LAYERS OF BEAMS UNDER BENDING 67-02 M17-58810
ENDURANCE LIMIT UNDER COMBINED ROTATING BENDING AND STATIC TENSION 67-02 M17-58813
FATIGUE UNDER CYCLIC TORSION AND ROTATING BENDING 67-02 M17-58814
CRITERIA FOR ENDURANCE LIMITS OF STEEL 67-02 M17-58815
ENDURANCE LIMITS OF BEAMS OF VARIOUS CROSS-SECTIONS UNDER CYCLIC BENDING 67-02 M17-58816
ANOTHER CRITERION FOR ENDURANCE LIMITS OF STEEL 67-02 M17-58817
ENDURANCE LIMITS OF SOLID AND HOLLOW CYLINDERS UNDER TORSION 67-02 M17-58818
ON THE STRESS-STRAIN RELATION IN PLASTIC RANGE 67-02 M17-58819
THREE SHEAR THEORY OF PLASTICITY 67-02 M17-58822
INTERNAL SHEARING RESISTANCES IN THE THREE SHEAR THEORY OF PLASTICITY 67-02 M17-58824
FATIGUE TESTING PREVIOUSLY STRAINED SPECIMENS 67-02 M17-58835
A METHOD OF COMPARING THE EFFECTIVENESS OF STRENGTHENING MACHINE COMPONENTS WITH RESULTS OF SPECIMEN TESTING 67-02 M17-58836
ON THE CONNECTION BETWEEN TENSILE AND YIELD LIMITS OF STEEL DURING TENSION 67-02 M17-58839
THE INFLUENCE OF VANADIUM AND NIOBIUM ON THE MECHANICAL PROPERTIES AND WELDABILITY OF CARBON STEEL. PT. 1. AS ROLLED 67-02 M17-58846
RESEARCH ON THE FATIGUE STRENGTH OF PRESS-FITTED SPECIMENS 67-02 M17-58848
EFFECT OF THE ANISOTROPY OF STEEL ON THE FORM OF THE YIELD SURFACE 67-02 M17-58889
FATIGUE PROPERTIES AND STRESS ANALYSIS 67-02 M17-58977
SPECIFICATIONS FOR CARBON AND LOW-ALLOY STRUCTURAL STEELS WITH GUARANTEED WELDABILITY 67-02 M17-58989
TESTS FOR DETERMINING THE FATIGUE STRENGTH OF PURE BASIC WELD DEPOSIT, DEPOSITED WITHOUT WEAVING AND BY WEAVING 67-02 M17-59038
PROPERTIES OF CARBON STEELS USED IN THE WIRE INDUSTRY 67-02 M17-59106
THE EFFECT OF CALCIUM, SILICON, MANGANESE AND CHROMIUM ON THE MECHANICAL PROPERTIES OF FLASH BUTT WELDS 67-02 M17-59110
EFFECT OF PREVIOUS COLD WORKING ON RAPID HEATING AND QUENCHING OF A PLAIN CARBON STEEL 67-02 M17-59118
THE DEFORMATION OF CONTINUOUSLY CAST SMALL CROSS SECTIONS 67-02 M17-59137
PROPERTIES OF CONTINUOUSLY CAST PRODUCTS 67-02 M17-59138
MEASURING THE LOSS IN DUCTILITY CAUSED BY TENSOTHERMAL EMBRITTLEMENT 67-02 M17-59171
IMPROVING THE CRACKING RESISTANCE OF MEDIUM-CARBON LOW-ALLOY STEEL 67-02 M17-59185
THE ABRASION RESISTANCE OF SOME HARDENED AND TEMPERED CARBON STEELS 67-02 M17-59431
LABORATORY INVESTIGATION OF THE WEAR RESISTANCE OF WHEEL STEEL OF DIFFERENT CHEMICAL COMPOSITIONS AND HARDNESSES 67-02 M17-59581
PROPERTIES OF FERROUS FORGINGS 67-02 M17-59629
THE RELAXATION OF RESIDUAL STRESSES UNDER THE EFFECT OF VIBRATIONAL LOADING 67-02 M17-59633
ROLE OF OXYGEN IN THE ADSORPTIVE DECREASE IN STRENGTH OF STEEL SPECIMENS IN CONTACT WITH A MELT 67-02 M17-59657
EFFECT OF REPEATED HEAT TREATMENT ON MECHANICAL PROPERTIES OF CARBON STEEL 67-02 M17-59667
EFFECT OF ARSENIC ON THE STRESS-RUPTURE STRENGTH OF MST. 3 MILD STEEL AT 723 K 67-02 M17-59686
PROPERTIES OF MILD STEEL FROM 290 TO 970 K. OBTAINED USING DIFFERENT TYPES OF HEAT TREATMENT 67-02 M17-59689
INVESTIGATION ON THE FATIGUE BENDING STRENGTH OF A LATERALLY LOADED STEEL ROPE WIRE 67-02 M17-59706
THE OBSERVATION OF THE BRITTLE-DUCTILE TRANSITION IN STEEL AT STRESS WAVE ATTENUATION 67-02 M17-59712
FORMATION OF GRIFFITH-CRACKS IN FERRITIC, LAMELLAR-PEARLITIC STEELS 67-02 M17-59717
CALCULATION OF THE WORK-HARDENING CHARACTERISTICS OF TENSILE TESTED POLYCRYSTALLINE METALS 67-02 M17-59718
TRANSITION BEHAVIOR AND ESTIMATION OF FRACTURE TOUGHNESS IN THE CHARPY IMPACT TEXT 67-02 M17-59754
THE RESISTANCE TO THERMAL SHOCK OF AUSTENITIC AND FERRITIC STEELS --3-- 67-02 M17-59811
THE PRODUCTION OF REPRODUCIBLE WELDING DEFECTS AND THEIR EFFECT ON FATIGUE STRENGTH 67-02 M17-59812
EFFECT OF THE DEFORMATION SPEED ON THE DUCTILE-TO-BRITTLE TRANSITION BEHAVIORS OF A MILD STEEL. STUDY ON THE DEPENDENCE OF MECHANICAL PROPERTIES OF METALS UPON THE STRAIN RATE. PT. 2 67-02 M17-59992
THE USE OF IMPACT TORSION TESTING IN THE TESTING OF SURFACE-TREATED MATERIALS 67-02 M17-60024
EFFECT OF FATIGUE TRAINING ON STRESS-RUPTURE STRENGTH 67-02 M17-60075
INVESTIGATION OF HOT TEARING AND MECHANISM OF CRACK FORMATION IN CAST STEEL. PRACTICAL CRACK SENSITIVITY TEST PIECE 67-02 M17-60221
BELGIUMS PART IN THE EXPERIMENTAL RESEARCH ON THE BUCKLING OF AXIALLY LOADED MILD-STEEL MEMBERS CONDUCTED BY THE CONVENTION EUROPEENNE DE LA CONSTRUCTION METALLIQUE 67-02 M17-60248
PROPERTIES OF STEEL MADE BY DIFFERENT PRODUCTION METHODS 67-02 M17-60283
INCREASING THE HIGH TEMPERATURE STRENGTH OF METALS BY PRODUCING STABLE DISLOCATION STRUCTURES 67-02 M17-60295
THE FATIGUE STRENGTH OF SINTERED MATERIALS 67-02 M17-60507
CRYSTALLOGRAPHIC ASPECTS OF FRACTURE IN MARTENSITE 67-02 M17-60646
AXIAL FATIGUE ON CARBON STEEL IN THE PLASTIC RANGE 67-02 M17-60662
HIGH-STRENGTH PRECIPITATION-HARDENED CONSTRUCTIONAL STEELS 67-02 M17-60692
INVESTIGATION OF TEMPER BRITTLENESS OF SPRING STEEL 67-02 M17-60739
EFFECT OF PLASTIC PRESTRAIN ON THE YIELD POINT OF ST. 45 STEEL 67-02 M17-60789
EFFECT OF HIGH DEGREES OF PLASTIC PRESTRAIN AND NATURAL AGING ON THE YIELD POINT OF MILD STEEL 67-02 M17-60790
NATURE OF THE DEVELOPMENT AND ACCUMULATION OF DAMAGED PLACES IN STEEL DURING FATIGUE TESTS 67-02 M17-60793
DETERMINATION OF THE COHESIVE STRENGTH OF LOW-CARBON STEEL --0.03 PER CENT C-- BY MEANS OF HIGH HYDROSTATIC PRESSURES 67-02 M17-60905

THE NOTCH TOUGHNESS OF MILD STEEL AND LOW ALLOY WELD METALS 67-02 M17-60909
FACTORS AFFECTING THE HYDROGEN CONTENT OF WELD DEPOSIT 67-02 M17-60914
INVESTIGATION OF THE DIAGRAM OF FATIGUE FAILURE IN CONNECTION WITH THE EFFECT OF SURFACE-ACTIVE MEDIA 67-02 M17-60976
INVESTIGATION OF ABRASIVE RESISTANCE OF NEW MATERIALS 67-02 M17-60980
THE MACHINABILITY OF ALUMINUM IN COMPARISON WITH OTHER METALS 67-02 M17-61027
RESEARCH INTO THE EFFECT OF THE SHAPE OF TESTPIECES ON THEIR STRENGTH 67-02 M17-61061
APPLICATION OF INDUCTION HEATING AND THERMOMECHANICAL TREATMENT IN PRODUCTION OF HIGH-STRENGTH WIRE 67-02 M17-61221
COOPERATIVE STUDY ON THE SCATTERING OF CREEP RUPTURE LIFE OF LOW CARBON STEEL AT ELEVATED TEMPERATURE 67-02 M17-61853
INFLUENCE OF ZIRCONIUM ON STRAIN AGING OF STEEL 67-02 M17-61969
REDUCTION OF AREA IN HOT DEFORMATION BY TENSILE STRESS 67-02 M17-61996
INFLUENCE OF DEFORMATION IN THE 20 TO 700 C. TEMPERATURE RANGE ON THE PROPERTIES OF CARBON STEELS AT ROOM TEMPERATURE 67-02 M17-62232
INFLUENCE OF HEAT TREATMENT, DEGREE OF REDUCTION AND CHEMICAL COMPOSITION OF WIRE ON ITS MECHANICAL PROPERTIES 67-02 M17-62274
A STATISTICAL STUDY OF THE MECHANISMS OF CHANGES IN FATIGUE CHARACTERISTICS 67-02 M17-62282
VACUUM-DEGASSED STEELS FROM THE CONSUMERS VIEWPOINT 67-03 M04-65068
ELEVATED-TEMPERATURE PROPERTIES OF BASIC-OXYGEN STEEL 67-03 M04-65322
INFLUENCE OF WELDING CONDITIONS ON THE STRESS CONCENTRATION SENSITIVITY OF 15KHSND WELDED JOINTS 67-03 M17-65045
THE PROBLEM OF THE CREEP OF METALS. PT. 18. MORE INFORMATION ON HIGH TEMPERATURE TENSILE PROPERTIES 67-03 M17-65169
DYNAMIC STRENGTH OF STEEL WIRE. PT. 5. A NEW DEVICE FOR TESTING STEEL WIRE FATIGUE 67-03 M17-65185
STUDY ON TORSIONAL FATIGUE STRENGTHS OF RECTANGULAR AND CIRCULAR CROSS SECTIONS OF STEEL 67-03 M17-65195
WEAR OF STEEL IN LUBRICATING OIL CONTAINING ABRASIVE PARTICLES 67-03 M17-65198
BENDING FATIGUE STRENGTH OF GEARS 67-03 M17-65199
GEAR TOOTH STRESS OF AN END-RELIEVED SPUR GEAR 67-03 M17-65200
BRITTLE FRACTURE OF FULL SCALE STRUCTURES DAMAGED BY FATIGUE 67-03 M17-65309
EFFECTS OF SEVERAL FACTORS ON THERMAL FATIGUE 67-03 M17-65313
SOME OBSERVATIONS ON NIOBIUM IN STEEL 67-03 M17-65465
TESTING FOR WEAR DURING IMPACT AGAINST ABRASIVE SURFACE 67-03 M17-65611
A DYNAMIC BIAXIAL TESTING MACHINE 67-03 M17-65661
HIGH STRENGTH PRESSURE WELDED STEEL BAR 67-03 M17-65822
INFLUENCE OF SOME DEFECTS IN STEELS UPON THE FATIGUE STRENGTH 67-03 M17-65824
THE EFFECTS OF ROLLING TEMPERATURE ON THE MECHANICAL PROPERTIES AND MICROSTRUCTURES OF MILD STEELS 67-03 M17-65837
DETERMINATION OF THE ROLE OF PILE IRRADIATION ON THE PLASTIC DEFORMATION OF AN EXTRA-MILD STEEL BY THE MEASURE OF ACTIVATION VOLUME 67-03 M17-65859
THE MECHANISM OF THE INFLUENCE OF RARE-EARTH METALS ON THE PROPERTIES OF STRUCTURAL STEEL 67-03 M17-65970
HARDENABLE LOW-CARBON STEEL. U. S. STEELS Q-TEMP 67-04 M01-66293
NEW STEELS FOR THE CPI 67-04 M01-66588
HIGH-STRENGTH LOW-ALLOYED WELDABLE CONSTRUCTIONAL STEELS, A GENERAL SURVEY 67-04 M01-66602
HEAT TREATMENT OF LOW-CARBON AND LOW-ALLOYED STEELS 67-04 M10-67955
MECHANICAL PROPERTIES OF SEAMS MADE BY VARIOUS METHODS OF MULTILAYER WELDING 67-04 M11-66438
DEVELOPMENT OF TUBE WELDING TECHNIQUES FOR CARBON STEEL FEEDWATER HEATERS 67-04 M11-67624
PHASE AND STRUCTURAL TRANSFORMATIONS IN CARBON STEELS DEFORMED BY IMPACT 67-04 M14-66955
EFFECT OF INTERNAL WELDING STRESSES ON THE TENDENCY TO CRACKING IN WELDED JOINTS ON MILD STEEL 67-04 M17-66008
ANTIFRICTION PROPERTIES AND WEAR RESISTANCE OF BRONZE, PIG IRON AND GRAPHITIC STEEL 67-04 M17-66017
SYNAMIC STRAIN AGEING IN MILD STEEL 67-04 M17-66060
MEASUREMENT OF STRAIN HARDENING AND PLASTIC STRAIN RATIO USING THE CIRCLE-ARC SPECIMEN 67-04 M17-66141
SUITABILITY OF SHEETS FOR PRESSING 67-04 M17-66145
THE CYCLIC STRAINING OF MILD STEEL 67-04 M17-66150
THE EFFECT OF FATIGUE ON THE DUCTILE-BRITTLE TRANSITION TEMPERATURE OF TWO MILD STEELS 67-04 M17-66172
EFFECT OF RARE-EARTH METALS ON PROPERTIES OF 12KH1MF STEEL 67-04 M17-66217
INTERNAL FRICTION AND BASIC FATIGUE MECHANISIMS IN BODY-CENTERED CUBIC METALS, MAINLY IRON AND CARBON STEELS 67-04 M17-66227
EQUIBIAXIAL LOW-CYCLE FATIGUE PROPERTIES OF TYPICAL PRESSURE-VESSEL STEELS 67-04 M17-66233
CRACK PROPAGATION RESISTANCE IN STRUCTURAL STEELS 67-04 M17-66357
INFLUENCE OF ARSENIC ON HARDENABILITY OF QUALITY CARBON STEEL 67-04 M17-66375
ALTERNATE LOADING RESISTANCE OF HIGH-STRENGTH STRUCTURAL STEEL 67-04 M17-66430
FORMATION OF BRITTLE CRACKS IN STEEL DURING TWINNING 67-04 M17-66491
BRITTLE FRACTURE IN WELDED JOINTS IN 4-8 MM THICK MILD STEEL 67-04 M17-66516
STUDY OF THE DURABILITY OF BUILT-UP METAL DURING CONTACT-IMPACT LOADING 67-04 M17-66570
PROPERTIES OF RAILS WITH HIGH SILICON CONTENT 67-04 M17-66628
DEFORMATION AND FRACTURE OF MILD STEEL CHARPY SPECIMENS 67-04 M17-66728
VARIOUS CONCEPTS OF MICROCRACKS 67-04 M17-66896
ON THE FATIGUE OF TENSILE PRESTRAINED MILD STEEL UNDER REPEATED ALTERNATING COMBINED STRESSES 67-04 M17-66898
THE EFFECT OF GRAIN SIZE ON THE STRESS-STRAIN RELATIONSHIP IN LOW-CARBON STEEL 67-04 M17-66931
NUMERICAL DESCRIPTIONS OF THE AMBIENT LOW-TEMPERATURE, AND HIGH-STRAIN RATE FLOW AND FRACTURE BEHAVIOR OF PLAIN CARBON STEEL 67-04 M17-66941
STRESS IN A MILD STEEL SURFACE IMPREGNATED WITH NITROGEN 67-04 M17-66945
EFFECT OF LOAD CYCLING BELOW THE FATIGUE LIMIT ON THE MECHANICAL PROPERTIES OF CARBON STEEL 67-04 M17-66950
EFFECT OF COPPER ON THE MECHANICAL PROPERTIES OF A HEAT-TREATED 0.3 PER CENT C STEEL 67-04 M17-66987
EFFECT OF PARTIAL DECARBURIZATION ON FATIGUE STRENGTH OF BOLTS 67-04 M17-66994
EFFECT OF THE HARDNESS AND STRUCTURE OF STEEL ON RESISTANCE TO HYDRAULIC ABRASION AND CAVITATION 67-04 M17-67049
EFFECT OF A COMPLEX FE-ZR INOCULANT ON THE PROPERTIES OF GRAPHITIC STEEL 67-04 M17-67127
NIOBIUM CARBIDE PRECIPITATION IN STEEL 67-04 M17-67196
EVALUATION OF THE BEHAVIOR OF STEELS AND ALLOYS DURING HOT DEFORMATION WITH THE AID OF HOT TORSION SPECIMENS 67-04 M17-67202
CHANGE IN THE SHAPE OF THE FLOW CURVE IN PLASTICALLY DEFORMED STEEL 67-04 M17-67235
RESISTANCE TO DEFORMATION OF COLD EXTRUDING STEELS 67-04 M17-67248
FUNDAMENTAL MATERIAL INVESTIGATIONS WITH RESPECT TO DEFORMATION AT INTERMEDIATE TEMPERATURES 67-04 M17-67409
THE CONFIGURATION OF IMPACT ENERGY-DEFLECTION DIAGRAMS 67-04 M17-67412
HARDENING IN MILD STEEL AT HIGHER IRRADIATION TEMPERATURES 67-04 M17-67414
INFLUENCE OF FATIGUE ON BRITTLE FRACTURE IN MILD

STEEL 67-04 M17-67415
VARIATIONS OF THE STRUCTURE AND PROPERTIES OF SOME CARBON STEELS UNDER CYCLIC LOADS BELOW THE FATIGUE LIMIT 67-04 M17-67439
COMPRESSION TEST ON CONCRETE-FILLED STEEL-TUBE COLUMN--ESPECIALLY ON BEARING-TYPE STRUCTURAL STEEL-TUBE COLUMN 67-04 M17-67515
EFFECTS OF NI AND CR ON SOME PROPERTIES OF PLAIN CARBON STEEL 67-04 M17-67561
ON THE HIGH-TEMPERATURE STRENGTH OF 0.35 PER CENT CARBON STEEL 67-04 M17-67595
AN EXPERIMENTAL STUDY ON THE FATIGUE STRENGTH OF CARBON STEELS 67-04 M17-67596
EFFECT OF ADDITIONS OF ALUMINUM ON PROPERTIES OF ST. 5 SEMIKILLED STEEL 67-04 M17-67605
EFFECT OF PLASTIC DEFORMATION IN AUSTENITIC STATE ON TEMPER BRITTLENESS OF RAIL STEEL 67-04 M17-67618
INTERNAL FRICTION ON THE ALPHA-GAMMA TRANSFORMATION OF IRON. PT. 3 67-04 M17-67643
THE BOUNDARY BETWEEN ELASTIC AND PLASTIC DEFORMATION IN STEEL 67-04 M17-67650
FATIGUE STRENGTH CRITERIA OF METALS AND ALLOYS BASED ON ENERGY DISSIPATION 67-04 M17-67819
EFFECT OF TEMPERING ON THE VARIATION OF INTERNAL FRICTION AND COLD BRITTLENESS OF CARBON STEEL SUBJECTED TO CYCLIC LOAD 67-04 M17-67832
RAISING THE QUALITY OF CAST STEEL 67-04 M17-67944
FATIGUE RESISTANCE AND WORKING LIFE OF MACHINE PARTS HARDENED BY CHEMICOTHERMAL TREATMENT 67-04 M17-67954
INFLUENCE OF RARE-EARTH METALS OF THE CERIUM SUBGROUP ON THE EMBRITTLEMENT THRESHOLD OF CARBON STEEL 67-04 M17-67956
ON STRENGTH TESTS OF PRE-ELONGATED SAMPLES 67-04 M17-68081
A METHOD OF COMPARING THE EFFECTIVENESS OF THE HARDENING OF MACHINE PARTS WITH THE RESULTS OF SAMPLE TESTS 67-04 M17-68082
ON THE RELATIONSHIP BETWEEN THE TENSILE STRENGTH AND YIELD POINT FOR STEELS 67-04 M17-68085
A NEW METHOD FOR THE DETERMINATION OF THE FATIGUE STRENGTH OF CARBON STEELS BASED ON MAGNETIC VISCOSITY 67-04 M17-68147
STUDY OF THE PROPERTIES OF COMPLEX BILLETS ROLLED ON THREE-HIGH MILLS FOR CROSS-HELICAL ROLLING OF ROUND SHAPES 67-05 M07-69690
TECHNIQUES OF DETERMINING AXIAL RESIDUAL STRESSES IN METAL SURFACE LAYERS 67-05 M13-68451
INFLUENCE OF ALLOYED ELEMENTS ON THE MECHANICAL PROPERTIES OF QUENCHED STEEL SUBJECTED TO COLD DEFORMATION 67-05 M17-68377
PROPAGATION OF CRACKS IN PLAIN AND NOTCHED SPECIMENS UNDER REPEATED PLASTIC STRAIN 67-05 M17-68462
AN EXPERIMENTAL STUDY ON THE TORSIONAL FATIGUE STRENGTH OF HOLLOW SPECIMENS WITH DRILL HOLES 67-05 M17-68463
TORSIONAL FATIGUE TEST OF MILD STEEL CONTAINING NONMETALLIC INCLUSIONS 67-05 M17-68464
X-RAY INVESTIGATION ON FATIGUE FRACTURE OF A NOTCHED STEEL SPECIMEN. --INVESTIGATION ON FATIGUE PROCESS OF COLD ROLLED LOW-CARBON STEEL SPECIMEN BY MEANS OF AN X-RAY MICROBEAM DIFFRACTION TECHNIQUE. PT. 2.-- 67-05 M17-68466
NEW WORK ON THE X-RAY DETERMINATION OF STRESSES AND INTERNAL DEFORMATION 67-05 M17-68526
THE EFFECT OF ELASTIC ANISOTROPY ON THE X-RAY STRESS MEASUREMENT IN STEEL SPECIMENS 67-05 M17-68527
VARIATION OF RESIDUAL STRESS IN THE FATIGUE PROCESS OF INDUCTION HARDENED STEEL 67-05 M17-68531
X-RAY INVESTIGATION ON FATIGUE FRACTURE OF NOTCHED STEEL SPECIMEN 67-05 M17-68532
MEASUREMENT OF SNOEK DAMPING IN SHEET SPECIMENS 67-05 M17-68656
STUDY OF THE BEHAVIOR OF WELDED JOINTS INCORPORATING DESIGN DEFECTS UNDER UNIAXIAL TENSION LOADING 67-05 M17-68785
MARGIN FOR ERROR OF THE ISOTHERMAL ROBERTSON TEST 67-05 M17-68786
CORRELATION BETWEEN LABORATORY TESTS AND ACTUAL PRACTICAL STAMPING RESULTS 67-05 M17-68928
FRICTION AND WEAR TESTING UNDER HIGH TEMPERATURE OF CAST AND OTHER METALS 67-05 M17-68953
INFLUENCE OF MANGANESE ON HYDROGEN EMBRITTLEMENT OF STEEL 67-05 M17-69008
THE PROBLEM OF THE CREEP OF METALS. PT. 19. MORE INFORMATION ON HIGH TEMPERATURE RUPTURE STRENGTH PROPERTIES 67-05 M17-69429
DISTRIBUTION OF DEFORMATION IN DRAWING LARGE FORGINGS 67-05 M17-69436
STEELS IN NUCLEAR ENGINEERING 67-05 M17-69545
TEMPERATURE-RATE RELATIONSHIP OF COEFFICIENT OF DRY SLIDING FRICTION 67-05 M17-69603
CRITICAL DEFORMATION OF METALS AT RUPTURE UNDER HYDROSTATIC PRESSURE 67-05 M17-69663
TESTING MATERIAL IN BIAXIAL TENSION 67-05 M17-69739
ON THE CRITERIA OF METAL DUCTILITY 67-05 M17-69899
ELASTUF PENN. --CARBON MACHINERY STEEL-- 67-06 M01-71487
NITRIDE PHASE IN SILICON-KILLED CARBON STEELS 67-06 M14-71336
EXPERIMENTS ON A STRUCTURAL STEEL USING THE S. O. D. NOTCH TOUGHNESS TEST 67-06 M17-69901
PROPERTIES OF CARBON RAIL STEEL AND 40KHN STEEL AFTER QUENCHING WITH TEMPER AND AFTER ISOTHERMAL TREATMENT 67-06 M17-69976
LOW-CYCLE FATIGUE TESTS UNDER REVERSED TENSION/COMPRESSION STRESSES WITH CONSTANT TRUE-STRAIN AMPLITUDE 67-06 M17-70033
THE ESTIMATION OF FATIGUE STRENGTH OF STEELS BY CORRELATION FORMULAS 67-06 M17-70034
ON THE INFLUENCE OF ELASTIC ANISOTROPY ON X-RAY MEASUREMENTS OF LATTICE STRAINS IN THE FERRITE OF FERROUS MATERIALS 67-06 M17-70051
INFLUENCE OF AUSROLLING ON MECHANICAL PROPERTIES OF LOW-CARBON AND LOW-ALLOY STEELS 67-06 M17-70063
INFLUENCE OF AUSROLLING BY TWISTING ON BRITTLE FAILURE OF HIGH-CARBON STEELS 67-06 M17-70066
INFLUENCE OF ELECTROTHERMAL TREATMENT ON MECHANICAL PROPERTIES OF COLD DEFORMED STEEL 67-06 M17-70077
THE EFFECTS OF FINAL DEOXIDATION AND HEAT TREATMENT ON THE FATIGUE STRENGTH OF CAST MEDIUM-CARBON STEEL 67-06 M17-70378
THE EFFECT OF PRE-STRAIN AND STRAIN-AGEING ON THE CLEAVAGE FRACTURE OF A LOW CARBON STEEL 67-06 M17-70433
RATE OF PROPAGATION OF PLASTIC DEFORMATION IN THE LUDERS BAND 67-06 M17-70592
THE NUCLEATION AND GROWTH OF CLEAVAGE MICROCRACKS IN MILD STEEL 67-06 M17-70622
YIELD AND FLOW OF LOW-CARBON STEEL AT MEDIUM STRAIN RATES 67-06 M17-70626
THE PLASTIC ZONE SIZE AHEAD OF THE PROPAGATING FATIGUE CRACK 67-06 M17-70647
FATIGUE STRENGTH OF CAST MEDIUM-CARBON STEEL 67-06 M17-70763
RAPID METHOD OF ESTIMATING ROTATING BENDING FATIGUE LIMITS BY CAPACITANCE THERMOMETER FOR ROTATOR 67-06 M17-70818
THE EFFECT OF STRAINING AT 100-500 C. ON THE ROOM TEMPERATURE MECHANICAL PROPERTIES OF CARBON STEELS 67-06 M17-70838
DETERMINING THE DUCTILITY OF METALS FROM THE RESULTS OF DYNAMIC BEND TESTS 67-06 M17-70913
EFFECT OF THE LOADING FREQUENCY ON THE CORROSION FATIGUE STRENGTH OF SPECIMENS FROM CARBON STEEL WITH STRESS CONCENTRATORS 67-06 M17-70936
COMPARISON OF THE PROPERTIES OF CARBON STEELS MADE IN ACID INDUCTION AND BASIC ARC FURNACES 67-06 M17-71107
ULTRASONIC LOSS MEASUREMENTS DURING ELASTIC-PLASTIC DEFORMATION AT THE YIELD POINT 67-06 M17-71174
STRESS ANALYSIS BY ULTRASONIC METHODS 67-06 M17-71175
COLUMBIUM-ALLOYED LOW-CARBON STEEL 67-06 M17-71266
NOTCH BRITTLENESS IN MILD STEEL AT -196 C 67-06 M17-71331
EFFECT OF NOTCH DEPTH ON FRACTURE OF MILD STEEL SPECIMENS AFTER GENERAL YIELD 67-06 M17-71332
EFFECT OF IRRADIATION ON THE HIGH-STRAIN FATIGUE BEHAVIOUR OF A LOW-CARBON AND A LOW-ALLOY STEEL 67-06 M17-71334
EFFECT OF PRELIMINARY HYDROGEN ABSORPTION AND CORROSION ON THE LOW-CYCLE FATIGUE OF STEEL

67-06 M17-71364
EFFECT OF STRESS CONDITIONS ON FATIGUE STRENGTH AND DURABILITY OF STEEL 67-06 M17-71366
TEMPERATURE AND FRICTIONAL COEFFICIENT AT HIGH RATES OF SLIP 67-06 M17-71367
PLASTIC DEFORMATION OF STEEL IN COMBINED LOADING WITH A CONSTANT STRESS INTENSITY
67-06 M17-71375
EFFECT OF COLUMBIUM ON THE PROPERTIES OF WELDABLE PLAIN CARBON STRUCTURAL STEELS
67-06 M17-71437
IMPACT WEAR TESTS ON STEEL 67-06 M17-71512
FRACTURE TOUGHNESS OF STRUCTURAL STEELS AS A FUNCTION OF THE RATE PARAMETER
67-06 M17-71636
FEATURES AND RESULTS OF SEVERAL PROGRAMS OF RADIATION-DAMAGE SURVEILLANCE OF POWER REACTOR PRESSURE VESSELS 67-06 M17-71640
THE DEEP NOTCH TEST AND BRITTLE FRACTURE INITIATION
67-06 M17-71688
DESIGN OF AN ABRASION TESTING MACHINE AND THE ABRASION OF CARBON STEELS AT ELEVATED TEMPERATURES 67-06 M17-71737
FEO INCLUSIONS AND FATIGUE OF STEEL
67-06 M17-71738
EFFECT OF STRUCTURE AND CHEMICAL COMPOSITION ON THE MECHANICAL PROPERTIES AND DEFORMING CHARACTERISTICS OF HYPOEUTECTOID HARDENABLE STRIP STEELS IN ANNEALED CONDITION 67-06 M17-71749
STUDY OF THE EFFECT OF GRAIN SIZE OF STEEL ON THE TRANSITION TEMPERATURE OF THE NOTCH TOUGHNESS
67-06 M17-71750
ASSESSING NORMAL ANISOTROPIC PLASTICITY OF SHEET METALS 67-06 M17-71897
HOT WORKING PROPERTIES OF CONTINUOUSLY CAST STEELS
67-06 M17-72022
LOW-CYCLE FATIGUE BY CONSTANT AMPLITUDE TRUE MEAN STRESS 67-06 M17-72084
PROBLEMS, PROPERTIES AND SELECTION OF STRUCTURAL METALS FOR USE IN CRYOGENIC ENVIRONMENT
67-06 M17-72092
MATERIALS FOR BOILERS AND NUCLEAR REACTOR VESSELS
67-06 M17-72249
INFLUENCE OF THE WORK IN FATIGUE CONDITIONS ON COLD SHORTNESS OF STEEL 67-06 M17-72309

CARBON STEELS, MECHANICAL PROPERTIES
EMBRITTLEMENT OF SOME STEELS BY AMMONIA AT HIGH
EMBRITTLEMENT OF SOME STEELS BY AMMONIA AT HIGH TEMPERATURES AND PRESSURES
TEMPERATURES AND PRESSURES 67-06 M17-72398
CONTRIBUTION TO THE DIMENSIONING OF LOAD-BEARING STEEL STRUCTURES OF THE GENERAL STRUCTURAL STEEL GRADES ST. 38 AND ST. 52 AT ELEVATED TEMPERATURES
67-06 M17-77178
EFFECT OF COBALT ON THE TEMPERING CHARACTERISTICS OF MEDIUM-CARBON STEELS 67-07 M10-73877
THE MECHANICAL PROPERTIES OF MULTI-PASS WELDS
67-07 M11-72697
DIRECTIONALITY OF SULFIDE CORROSION CRACKING ON THE HIGH-STRENGTH STEEL PLATE. STUDIES ON SULFIDE CORROSION CRACKING OF WELDABLE HIGH-STRENGTH STEELS. PT. 3 67-07 M17-72525
SULFIDE CORROSION CRACKING OF WELDABLE HIGH STRENGTH STEEL PLATES IN OIL REFINING PLANTS
67-07 M17-72526
THE INFLUENCE OF TORSIONAL PRESTRAINING ON NOTCH-BRITTLE FRACTURE 67-07 M17-72625
OBSERVATIONS ON THE FORM OF THE LOAD-ELONGATION CURVE FOR LOW-CARBON STEEL IN THE REGION OF THE YIELD POINT 67-07 M17-72673
CAPACITY OF HIGH TENSILE STRUCTURAL STEEL FOR RESISTING ALTERNATING LOADS 67-07 M17-72689
ON THE TESTING OF STEEL IN BIAXIAL TENSION AT ROOM TEMPERATURE AND LOWER TEMPERATURES
67-07 M17-72789
AN INSTALLATION FOR DETERMINING THE PLASTICITY OF METALS BY TORSION AT HIGH TEMPERATURES
67-07 M17-72871
THE MECHANISM OF THE INFLUENCE OF RARE-EARTH METAL ADDITIONS ON THE PROPERTIES OF CONSTRUCTIONAL STEELS 67-07 M17-72974
PLASTICITY LAWS IN CREEP OF POLYCRYSTALLINE METALLIC MATERIALS AT ELEVATED TEMPERATURES
67-07 M17-72978
TRIAXIAL TESTS OF METALLIC MATERIALS AT ELEVATED TEMPERATURES 67-07 M17-72979
CREEP OF THICK-WALLED CYLINDERS UNDER REPEATED VARYING INTERNAL PRESSURE 67-07 M17-72980
TRANSMISSION ELECTRON MICROSCOPIC OBSERVATION OF LOW CARBON STEELS DURING CREEP
67-07 M17-72982
INFLUENCE OF SURFACE-ACTIVE MEDIUM ON LOW CYCLE FATIGUE STRENGTH OF STEEL 67-07 M17-73174
INFLUENCE OF ALUMINUM ON COLD BRITTLENESS OF CAST MEDIUM CARBON STEEL 67-07 M17-73175
THE MECHANICAL PROPERTIES OF CARBONITRIDED STEELS. PT. 1. BENDING STRENGTH AND TOUGHNESS OF CARBONITRIDED STEELS WITH HIGH CORE STRENGTHS
67-07 M17-73186
EFFECTS OF IRRADIATION IN IRON AND STEELS
67-07 M17-73378
LOW-TEMPERATURE EMBRITTLEMENT OF IRON, IRON ALLOYS, AND STEELS BY NEUTRON IRRADIATIONS
67-07 M17-73379
THE EROSION OF DEPOSITED METALS BY STREAMS OF ABRASIVE SUBSTANCES 67-07 M17-73426
RESISTANCE OF DEPOSITED METAL TO CONTACT-IMPACT LOADS 67-07 M17-73427
STRESS-STRAIN STATE IN DEEP DRAWN PARTS OF COMPLEX CONFIGURATIONS 67-07 M17-73442
IMPROVING THE STRENGTH OF WELD JOINTS DURING IMPACT LOADING BY HEATING AND ABRUPT COOLING
67-07 M17-73479
ON THE CHANGES OF SOME PROPERTIES OF STEEL DURING ALTERNATING STRESSES 67-07 M17-73708
THE EFFECT OF WELDING CONDITIONS ON THE SENSITIVITY TO STRESS RAISERS OF JOINTS IN 15KHSND STEEL 67-07 M17-73965
THE COMPRESSIVE STRENGTH OF CAST IRON AND STEEL
67-07 M17-74035
FRICTION AND WEAR OF UNLUBRICATED STEEL SURFACES AT SPEEDS UP TO 655 FT/SEC. 67-07 M17-74088
IMPROVED HARDENABILITY OF STEELS QUENCHED FROM FORGING AND ROLLING TEMPERATURES
67-07 M17-74196
MECHANICAL PROPERTIES OF CARBONITRIDED STEELS. PT. 2. THE FATIGUE STRENGTH OF CARBONITRIDED STEELS--THE RELATIONSHIP BETWEEN RESIDUAL AUSTENITE CONTENT IN CARBONITRIDED LAYERS AND FATIGUE STRENGTH 67-07 M17-74210
THE EFFECT OF MICROSTRUCTURE ON THE FORMATION OF RESIDUAL STRESSES IN UNALLOYED STEELS
67-07 M17-74211
WELD-METAL MICROCRACKING IN REHEATED WELDS
67-07 M17-74284
DECREASE OF RESIDUAL INTERNAL STRESSES IN METAL MACHINE PARTS BY VIBRATION-HEAT TREATMENT
67-08 M10-76102
SURFACE QUENCHING IN THE CASE OF BULK INDUCTION HEATING OF ZIL-130 AXLES 67-08 M10-76107
INFLUENCE OF PLASTIC DEFORMATION IN HEAT AFFECTED ZONE ON COLD SHORTNESS OF WELDED JOINTS
67-08 M17-74368
COMPRESSIVE DEFORMATION AFFECTED BY SUPERIMPOSED ULTRASONIC VIBRATION 67-08 M17-74411
NODULAR GRAPHITE STEEL. EFFECT OF HEAT TREATMENT ON MECHANICAL PROPERTIES 67-08 M17-74426
PUSH-PULL LOW ENDURANCE FATIGUE OF EN 25 AND EN 32B STEELS AT 20 C. AND 450 C
67-08 M17-74499
ELEVATED TEMPERATURE YIELD AND 0.2 PER CENT PROOF STRESS PROPERTIES OF CARBON STEEL PLATES, WITH PARTICULAR REFERENCE TO THE VALUES SPECIFIED IN B.S. 1501..1964 67-08 M17-74500
SPRINGBACK BEHAVIOR OF LOW-CARBON STEEL SHEET AFTER STRETCH BENDING 67-08 M17-74518
CRACK NUCLEATION SITES IN LOW-CARBON STEELS UNDER EXPLOSIVE LOADING CONDITIONS 67-08 M17-74521
RELAXATION TESTING OF WIRE BY MEASURING THE FREQUENCIES OF NATURAL TRANSVERSE OSCILLATIONS OF STRESSED SAMPLES 67-08 M17-74532
IMPROVING THE METHOD OF TESTING WIRE FOR STRESS RELAXATION 67-08 M17-74533
METHOD OF WEAR TESTING WITH IMPACT AGAINST AN ABRASIVE SURFACE 67-08 M17-74536
STUDY OF THE MECHANISM OF PLASTIC DEFORMATION IN UNIRRADIATED AND IRRADIATED LOW CARBON STEEL
67-08 M17-74566
STUDYING THE ANOMALY OF THE TENSILE CHARACTERISTICS OF METALS AND ALLOYS 67-08 M17-74585
EFFECT OF THE ADDITION OF RARE EARTH ELEMENTS ON THE COLD BRITTLENESS AND TEMPER BRITTLENESS SUSCEPTIBILITY OF ACID CONVERTER RAIL STEEL
67-08 M17-74589
FUNDAMENTAL INVESTIGATION OF THE SLIDING FRICTION OF METALS WITH RADIOACTIVE TRACERS
67-08 M17-74921
INCREASE OF THE WORKING LIFE OF TRACTOR PARTS

67-08 M17-74969
COLD BRITTLENESS OF LOW-CARBON STEEL TREATED FOR HIGH STRENGTH 67-08 M17-74977
REPEATED TENSILE IMPACT TEST ON CARBON STEEL WITH V NOTCHES 67-08 M17-75133
INTERDEPENDENCE BETWEEN THE FLAKE-FORMING SUSCEPTIBILITY OF STEEL, HYDROGEN CONTENT AND HEAT TREATING CONDITIONS 67-08 M17-75285
THE STRUCTURE AND MECHANICAL PROPERTIES OF SHOCK-LOADED STEELS 67-08 M17-75332
X-RAY AND FATIGUE STUDIES OF HARDENED AND COLD-WORKED STEELS 67-08 M17-75346
MEASURING STRESS ON MAGNETIC-HARD STEELS BY THE MAGNETO-ELASTIC METHOD 67-08 M17-75349
BEHAVIOR OF MILD STEEL DURING TESTING BY REPEATED-STATIC BENDING LOAD 67-08 M17-75353
THE RELATIONSHIP OF HARDNESS TO FRICTION AND PRELIMINARY WORK HARDENING 67-08 M17-75354
SOME FACTORS AFFECTING THE FATIGUE STRENGTH OF FILLET WELDS 67-08 M17-75363
EFFECT OF PLASTIC DEFORMATION AND RESIDUAL STRESS ON THE FRACTURE RESISTANCE OF STEELS AT LOW TEMPERATURES 67-08 M17-75401
SOME MECHANISMS OF BRITTLE FRACTURE 67-08 M17-75402
PROPAGATION OF LONGITUDINAL BRITTLE CRACKS IN INTERSECTING SEAMS 67-08 M17-75403
STUDY OF IRREGULARITY OF DEFORMATION IN STEEL BY THE GRAPHITIZATION METHOD 67-08 M17-75474
HAZARDOUS METALLURGICAL NOTCHES 67-08 M17-75526
FAILURE OF A HYDRAULIC CLUTCH 67-08 M17-75533
THE VALIDITY OF THE ASSUMPTION OF PLANE STRAIN CONDITIONS IN PLASTIC DEFORMATION PROCESSES AND YIELD POINT PHENOMENA IN METALS AND ALLOYS 67-08 M17-75576
MILD STEEL WITH NIOBIUM ADDED 67-08 M17-75735
CYCLIC STRAIN-SOFTENING EFFECTS IN METALS 67-08 M17-75970
TORSIONAL DUCTILITY AND STRENGTH OF IRON-CARBON ALLOYS AT ELEVATED TEMPERATURE 67-08 M17-75975
INFLUENCE OF RESIDUAL STRESSES ON PLASTIC DEFORMATION DURING CYCLIC STRESSING OF MACHINE PARTS 67-08 M17-76003
EFFECT OF MULTIPLE DEFORMATIONS ON THE RESISTANCE OF LOW-CARBON STEEL TO CYCLIC STRESSES 67-08 M17-76005
INFLUENCE OF THE COMPOSITION ON THE COLD BRITTLENESS OF CAST MEDIUM-CARBON STEEL 67-08 M17-76017
THE EFFECTS OF QUENCH AGING, STRAIN AGING, AND SUBSTRUCTURE ON THE TENSILE PROPERTIES OF 1020 STEEL 67-08 M17-76144
CORRELATION OF FATIGUE LIMIT WITH MICROSTRUCTURE AND COMPOSITION OF FERRITE-PEARLITE STEELS 67-08 M17-76147
THE EFFECT OF INCLUSIONS ON THE BRITTLE FRACTURE OF HOT ROLLED STEEL 67-08 M17-76148
CONTRIBUTION TO THE INVESTIGATION OF THE PROBLEM OF THE RUPTURE OF EXTRA-MILD STEEL IN THE PRESENCE OF H2 67-08 M17-76220
FATIGUE TEST PRACTICE IN CONNECTION WITH ELEMENTS. THE USEFULNESS OF TORSIONAL STRESS 67-08 M17-76232
INFLUENCE OF NIOBIUM AND NITROGEN ON THE STRENGTH OF HAVING A FERRITE-PEARLITE STRUCTURE 67-08 M17-76235
DETERMINATION OF THE STRESS DISTRIBUTION IN A CYLINDRICAL, TWO-PART LONGITUDINALLY PRESTRESSED PRESSING TOOL 67-08 M17-76299
FRENCH STANDARD SPECIFICATION PNA36-208 ON STEELS FOR LOW-TEMPERATURE APPLICATIONS 67-08 M19-76291
USE OF THREE-LAYER U7-30-U7 STEELS FOR AUTOMOBILE SPRINGS 67-08 M20-74968
INFLUENCE OF DIFFUSION CHROMIZING ON SOME PHYSICAL AND MECHANICAL PROPERTIES OF CARBON STEEL 67-09 M17-76434
INFLUENCE OF BORIDING ON SOME PHYSICAL AND MECHANICAL PROPERTIES OF STEEL 45 67-09 M17-76436
DETERMINATION OF THE CRITICAL COLD SHORTNESS TEMPERATURE OF CAST STEEL 67-09 M17-76443
THE APPLICABILITY OF THE DEFORMATION ENERGY HYPOTHESIS TO THE STUDY OF LARGE DEFORMATIONS 67-09 M17-76705
DRAWABILITY OF LOW-CARBON NITROGEN-ALUMINUM STEELS 67-09 M17-76759
BRITTLE CRACKS IN TYPE ST3S MILD STEEL STRUCTURES 67-09 M17-76896
DISTRIBUTION OF PLASTIC DEFORMATION IN POLYCRYSTALLINE METALS 67-09 M17-77279
DEVELOPMENT OF SLIP BANDS ON THE STEEL SURFACE DURING DATIGUE TESTING 67-09 M17-77285
INVESTIGATIONS INTO THE COLD WORKING PROPERTIES OF THE HEAT AFFECTED ZONE RESULTING FROM FLAME CUTTING STEEL SHEET METAL 67-09 M17-77339
DISCERNING THE QUALITY CHARACTERISTICS OF LOW-CARBON STEELS BY DAMPING MEASUREMENTS 67-09 M17-77353
INVESTIGATION OF THE NATURE OF REVERSE TEMPER BRITTLENESS OF STEELS BY THE INTERNAL FRICTION METHOD 67-09 M17-77401
INVESTIGATION OF FATIGUE STRENGTH OF METALS UNDER ACTUAL SERVICE LOADS--WITH TWO SUPERIMPOSED CYCLIC LOADINGS 67-09 M17-77575
THE FRACTURE OF MILD STEEL LAMINATES 67-09 M17-77732
DETERMINING THE MECHANICAL PROPERTIES OF METALS BY PLURAL CORRELATION 67-09 M17-77868
THE EFFECT OF THE MICROSTRUCTURE OF HARDENED AND, TEMPERED STEELS ON BEHAVIOR IN DYNAMIC STRESSING 67-09 M17-77884
INFLUENCE OF RESIDUAL STRESSES ON STRENGTH PROPERTIES OF HYDROGENATED STEEL 67-09 M17-77957
THE VARIATION OF CRACK TOUGHNESS OF MILD STEEL WITH TEMPERATURE AND STRAIN RATE 67-09 M17-78045
LOW CYCLE FATIGUE CRACK PROPAGATION IN A201B, A302B, AND A517F PRESSURE VESSEL STEELS 67-09 M17-78148
FATIGUE STRENGTH OF TUBES BUTT WELDED USING A CERAMIC COATED BACKING MEMBER 67-09 M17-78152
RAIL STEEL STRENGTHENED BY THERMOMECHANICAL TREATMENT 67-10 M08-78937
DISPERSION HARDENING ALLOYS FOR HARD SURFACING OF CUTTING TOOLS 67-10 M11-78410
EFFECTS OF HEAT TREATMENT ON THE COLD BRITTLENESS OF REINFORCEMENT STEEL 67-10 M17-78376
ACCUMULATION OF FATIGUE DAMAGE BY GRADE 45 STEEL UNDER PEAK LOADS 67-10 M17-78382
INFLUENCE OF SURFACE HARDENING ON MICROHARDNESS OF HARD SURFACED PARTS 67-10 M17-78408
MEASUREMENT OF STRAIN HARDENING IN SHEET METALS 67-10 M17-78504
FOR HIGH FATIGUE STRENGTH, SELECT A STRONG STEEL 67-10 M17-78633
SOLUTION, PRECIPITATION AND HARDENING EFFECT OF NIOBIUM ON UNALLOYED STEEL 67-10 M17-78692
EFFECT OF THERMOMECHANICAL TREATMENT ON THE MECHANICAL PROPERTIES OF LOW-CARBON AND LOW-ALLOY STEELS 67-10 M17-78809
EFFECT OF HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT ON THE RESISTANCE TO RUPTURE OF HIGH-CARBON STEELS STRAINED BY TORSION 67-10 M17-78812
EFFECT OF ELECTROTHERMAL TREATMENT ON THE MECHANICAL PROPERTIES OF COLD WORKED STEEL 67-10 M17-78823
EFFECT OF ZIRCONIUM ON THE SUSCEPTIBILITY OF STEEL TO STRAIN AGING 67-10 M17-78826
COMBINED TREATMENT OF STEEL FOR HIGH STRENGTH 67-10 M17-78842
IMPROVING THE TEAR RESISTANCE OF MEDIUM-CARBON AND LOW-ALLOY STEEL 67-10 M17-78894
EFFECT OF THE CARBON CONTENT OF STRUCTURAL STEEL ON ITS TRANSITION TEMPERATURE 67-10 M17-78931
MECHANISM BY WHICH INOCULATION STRENGTHENS RAIL STEEL 67-10 M17-78938
CUMULATIVE DAMAGE UNDER BIAXIAL FATIGUE STRESS 67-10 M17-79174
CAUSES OF THE STRONG AMPLITUDE DEPENDENCE OF INTERNAL FRICTION IN COLD STRAINED STEEL 67-10 M17-79235
AN INVESTIGATION OF THE DYNAMIC BEHAVIOR OF AN ANNEALED LOW CARBON STEEL BY MEANS OF STRESS PULSE AMPLIFICATION 67-10 M17-79308
EFFECT OF WORKHARDENING AND LOADING CONDITIONS ON FATIGUE STRENGTH AND LONGEVITY 67-10 M17-79333
INVESTIGATION OF THE INFLUENCE OF NONCORROSIVE FLUIDS ON THE MECHANICAL PROPERTIES OF METALS IN STATIC AND DYNAMIC LOADING 67-10 M17-79484
A CRITERION FOR FATIGUE FRACTURE UNDER MULTIAXIAL ALTERNATING STRESS STATE 67-10 M17-79599

RATIO OF THE CRACK FORMATION AND PROPAGATION ENERGIES DURING IMPACT TESTS 67-10 M17-79742
FATIGUE SOFTENING AND HARDENING OF ANNEALED LOW-CARBON STEEL 67-10 M17-79769
PLASTICITY OF CARBON STEELS IN THE HOT STATE 67-10 M17-79853
COMPRESSIVE STRENGTH OF MILD STEEL AT HIGH STRAIN RATE AND AT HIGH TEMPERATURE 67-10 M17-79877
FATIGUE STRENGTH OF CARBON STEEL CASTINGS 67-10 M17-79878
EFFECT OF DEFORMATION AND TEMPERING ON INTERNAL FRICTION OF PATENTED WIRE 67-10 M17-79904
STRAIN AGING OF LOW CARBON STEELS 67-11 M14-81660
CONTRIBUTION TO THE STUDY OF THE HALL AND PETCH FORMULA IN POLYCRYSTALLINE IRON 67-11 M17-80244
ELEVATED-TEMPERATURE TENSILE, CREEP, AND RUPTURE PROPERTIES OF VARIOUS CARBON STEELS 67-11 M17-80264
EFFECT OF STRESS RELIEVING ON THE HIGH-TEMPERATURE RUPTURE STRENGTH OF CARBON STEELS 67-11 M17-80266
A PRELIMINARY SURVEY OF THE ELEVATED-TEMPERATURE TENSILE PROPERTIES OF CAST CARBON STEELS 67-11 M17-80269
THE HIGH-TEMPERATURE PROPERTIES OF A MN-CR-MO-V NORMALIZED AND TEMPERED STEEL--DUCOL W30 67-11 M17-80270
QUENCHED AND TEMPERED CARBON-MANGANESE STEELS FOR USE AT ELEVATED TEMPERATURES 67-11 M17-80271
HIGH-TEMPERATURE PROPERTIES OF STEELS 67-11 M17-80288
STRAIN AGING OF LIGHT STEEL SECTIONS 67-11 M17-80339
EFFECT OF MECHANICAL PROPERTIES OF SHEET STEEL ON CHROMIUM-PLATED UNDER VARIOUS CONDITIONS 67-11 M17-80589
SOME PHYSICOMECHANICAL CHARACTERISTICS OF DIFFUSION-COPPER-PLATED CARBON STEEL 67-11 M17-80590
THE BRITTLE FRACTURE RESISTANCE OF LOW CARBON STEELS IN RELATION TO PRELIMINARY LOAD CYCLING 67-11 M17-80645
EFFECT OF ZIRCONIUM ON THE PROPERTIES OF LOW-CARBON ARSENOUS STEEL 67-11 M17-80863
HIGH YIELD SHIP STEELS 67-11 M17-80934
THE EFFECT OF NICKEL ON THE LOW-TEMPERATURE BRITTLENESS OF IRON AND STEELS 67-11 M17-80948
RESISTANCE OF STRUCTURAL STEEL TO PROPAGATION OF BRITTLE CRACKS 67-11 M17-80959
EFFECT OF ARSENIC ON THE HARDENABILITY OF HIGH-GRADE CARBON STEELS 67-11 M17-80977
MECHANICAL AND RHEOLOGICAL PROPERTIES OF HIGH-STRENGTH REINFORCING ROD 67-11 M17-80978
WAYS OF INCREASING THE STRENGTH OF STRUCTURAL STEELS 67-11 M17-80980
HARDNESS OF STRAINED METAL 67-11 M17-81160
DETERMINATION OF BRITTLE FRACTURE BEHAVIOR OF A STEEL BY EVALUATION OF FORCE-FLEXION CURVES OBTAINED FROM NOTCH BEND TESTS 67-11 M17-81381
VARIATION OF INTERNAL FRICTION IN CARBON STEEL AS A RESULT OF CYCLIC LOAD 67-11 M17-81419
EFFECTS ON THE COLD-BRITTLENESS OF STEEL OF WORKING UNDER CONDITIONS OF FATIGUE 67-11 M17-81581
EFFECT OF GRAIN SIZE, TEMPERATURE AND STRAIN RATE ON THE TENSILE AND PLASTIC CHARACTERISTICS OF LOW-CARBON STEELS 67-11 M17-81656
HIGH-TEMPERATURE STEELS IN STEAM TURBINES 67-11 M20-80283
FAILURE ENERGY OF STEELS IN DYNAMIC BENDING 67-12 M17-81717
THERMAL RESISTANCE AND WEAR RESISTANCE OF ROLLING MILL GUIDES 67-12 M17-81729
INCREASING THE FATIGUE LIMIT OF FRICTION-WELDED JOINTS 67-12 M17-81915
YIELD STRESS BEHAVIOR OF CARBON AND LOW-ALLOY STRUCTURAL STEELS IN RELATION TO GRAIN SIZE, TEMPERATURE, PRIOR DEFORMATION AND AGING 67-12 M17-81929
THE EFFECT OF PLASTIC DEFORMATION AND RESIDUAL STRESSES ON THE RESISTANCE OF STEELS TO FRACTURE AT LOW TEMPERATURES 67-12 M17-82022
SOME LAWS FOR BRITTLE FRACTURE 67-12 M17-82023
THE PROPAGATION OF LONGITUDINAL BRITTLE CRACKS IN INTERSECTING WELDS 67-12 M17-82024
STEELS FOR BOILER PLATE AND PRESSURE EQUIPMENT PERFORMING AT HIGH TEMPERATURES. PT. 8 67-12 M17-82143
CORRELATION OF FATIGUE LIMIT WITH TRUE STRESS--TRUE STRAIN BEHAVIOR 67-12 M17-82145
HIGH TEMPERATURE THERMOMECHANICAL TREATMENT OF CARBON STEELS 67-12 M17-82151
APPARATUS FOR DETERMINING THE PLASTICITY OF METALS IN TORSION AT HIGH TEMPERATURES 67-12 M17-82179
INFLUENCE OF PLASTIC STRAIN IN THE HEAT-AFFECTED ZONE ON THE LOW-TEMPERATURE EMBRITTLEMENT OF WELDED JOINTS 67-12 M17-82241
DETERMINATION OF THE MAGNETOELASTIC SCATTERING CONTRIBUTION TO THE AMPLITUDE DEPENDENCE OF INTERNAL FRICTION IN CARBON STEEL 67-12 M17-82349
USE OF THE ENERGY OF CRACK PROPAGATION TO DETERMINE THE TENDENCY OF A METAL TO IRREVERSIBLE DAMAGE DURING CYCLIC LOADING 67-12 M17-82415
A STUDY OF THE MECHANISM EMBRITTLEMENT OF STEEL 67-12 M17-82430
THE EFFECT OF HYDRAULIC TEST PRESSURE UPON THE SUBSEQUENT SERVICEABILITY OF PARTS OPERATING IN HYDROGEN 67-12 M17-82432
THE EFFECT OF STRUCTURAL MICROHETEROGENEITIES UPON THE STRENGTH OF PLATES WITH HYPERBOLIC NOTCHES 67-12 M17-82433
ELASTIC DEFORMATION OF RUBBING SURFACES 67-12 M17-82434
THE ROLE OF IMPURITIES IN REACTIONS BETWEEN LIQUID ALLOYS AND SOLID METALS UNDERGOING DEFORMATION 67-12 M17-82436
THE TOUGHNESS OF FERRITIC STEEL STRENGTHENED BY PRECIPITATION OF CBC 67-12 M17-82566
THE EFFECT OF INHOMOGENEOUS TEXTURES ON MECHANICAL PROPERTIES OF LOW-CARBON STEEL SHEETS 67-12 M17-82582
THE INFLUENCE OF DEFORMATION VELOCITY ON THE TENSILE RUPTURE DUCTILITY OF STRAIN-AGED STEEL 67-12 M17-82587
PLASTIC DEFORMATION OF LOW-CARBON STEEL AT BRITTLE FRACTURE 67-12 M17-82631
ULTRASONIC EXTINCTION IN MONO- AND POLYCRYSTALLINE FE IN THE PULSE-ECHO PROCESS 67-12 M17-82667
COMPARATIVE WEAR TESTS ON BATH-NITRIDED SPECIMENS 67-12 M17-82692
THE DURABILITY OF THE MELTING VESSEL IN THE ZN-DESILVERIZATION OF PB 67-12 M17-82830
INVESTIGATIONS OF THE EFFECT OF SURFACE TREATMENT ON THE FATIGUE PROPERTIES OF STEELS 67-12 M17-82843
INVESTIGATION OF THE RELATIONSHIP BETWEEN THE BENDING FATIGUE STRENGTH AND THE DISTRIBUTION OF RESIDUAL STRESSES OF CASE-HARDENED STEELS 67-12 M17-82844
SOME DATA CONCERNING THE FATIGUE BEHAVIOR OF NITRIDED STEELS 67-12 M17-82847
FACTORS OF THE ANTIFRICTION PROPERTIES OF GRAPHITIZED STEEL 67-12 M17-83034
THE DEVELOPMENT OF FIBROUS FRACTURE IN A MILD STEEL 67-12 M17-83066
A COMPARISON--PLANE STRAIN FRACTURE TOUGHNESS AND THE ISOTHERMAL FLOW PROPERTIES OF A STRUCTURAL STEEL 67-12 M17-83130
THE INFLUENCE OF STRESS-STATE AND INCLUSION CONTENT ON DUCTILE FRACTURE WITH ROTATION 67-12 M17-83249
MECHANICAL PROPERTIES AT ELEVATED TEMPERATURES OF SEAMLESS CARBON STEEL TUBING 67-12 M17-83337
FATIGUE TESTS AND ELASTIC STRESS MEASUREMENTS ON STEEL WIRE AS AFFECTED BY THE RATE OF WORKHARDENING. EXISTENCE OF A CRITICAL WORKHARDENING RANGE 67-12 M17-83338
ON THE FACTORS WHICH INFLUENCE THE ABRASION OF CARBON STEELS AT HIGH TEMPERATURES, AND COMPARISON OF THE ABRADED APPEARANCE AT HIGH TEMPERATURE WITH THAT OF ROOM TEMPERATURE. PT. 2. RESEARCH ON THE ABRASION OF STEEL DURING WARM DEFORMATION 67-12 M17-83390
STRESS FIELD INTENSITY FACTORS FOR PROPAGATING BRITTLE CRACKS 67-12 M17-83486
RESULTS OF BURST TESTS ON NIOBIUM-TREATED HIGH TENSILE STEEL PIPES AT LOW TEMPERATURES 67-12 M17-83507
EFFECT OF DEFORMATION RATES ON STRAIN AGING TEMPERATURE AND DISLOCATION DENSITY IN CARBON STEEL 67-12 M17-83526

CARBON STEELS, MECHANICAL PROPERTIES
ANALYSIS OF FRACTURE ENERGY IN THE IMPACT TEST

CARBON STEELS

ANALYSIS OF FRACTURE ENERGY IN THE IMPACT TEST
67-12 M17-83579
TECHNIQUES FOR TESTING STRUCTURAL MATERIALS IN RELATION TO THEIR APPLICATION IN NUCLEAR REACTORS
67-12 M20-82813

CARBON STEELS, MECHANICAL TESTS
METHOD OF EVALUATING THE INFLUENCE OF PEAK LOADS ON THE FATIGUE STRENGTH OF LARGE SPECIMENS DURING ALTERNATE LOADING 67-02 M17-58832
HARDENABILITY MEASUREMENTS. PT. 4
67-06 M17-70829

CARBON STEELS, MELTING
CONSUMABLE VACUUM ARC MELTED INGOT
67-02 M04-58938
VACUUM STEELMAKING 67-02 M04-58999
MECHANISM OF ALLOYING ELEMENTS EVAPORATION DURING THE VACUUM INDUCTION MELTING OF STEEL
67-04 M04-66731
USE OF STEEL CHIPS DURING STEEL MELTING
67-04 M04-67501
THE OXIDIZING PROCESSES TAKING PLACE DURING ELECTROSLAG REMELTING 67-04 M04-67875
INFLUENCE OF THE OXYGEN CONTENT IN LIQUID METAL AND POURING RATE ON THE STRUCTURE OF SEMIKILLED STEEL INGOTS 67-05 M04-69900
OPERATION OF AN ELECTRIC ARC FURNACE BY MEANS OF A PROCESS CONTROL COMPUTER 67-06 M04-70198
VACUUM DEOXIDATION IN THE DEGASSING OF KILLED AND UNKILLED STEELS AT TAPPING 67-07 M04-72894
MEASUREMENTS OF SOLIDIFICATION TIMES ON PLATES AND SPHERES OF DIFFERENT METALS AND THEIR SIGNIFICANCE FOR THE DESIGN OF FEEDER HEADS
67-07 M06-73491
PRODUCING STEEL IN ELECTRIC FURNACES USING STEEL CHIP BRIQUETS 67-08 M04-75187
SOME TECHNOLOGICAL CHARACTERISTICS OF OPENHEARTH PRODUCTION WITH OXYGEN BLOWING
67-09 M04-77873
A NEW METHOD OF PRODUCING QUALITY LOW-CARBON NONAGING 08YU STEEL 67-10 M04-78421
PRODUCING ROPE STEEL IN A LARGE FURNACE
67-10 M04-78422
EFFECT OF KILLING WITH ALUMINUM-BEARING FERROALLOYS ON THE QUALITY OF TUBE STEEL 67-10 M04-78423
BASIC OXYGEN FURNACES MAKE QUALITY ALLOY STEEL
67-10 M04-78765
EFFECT OF THE ACIDITY OF FINISH SLAGS ON THE QUALITY OF RAIL STEEL 67-11 M04-80851
INFLUENCE OF CERTAIN PRODUCTION ELEMENTS ON THE QUALITY OF SEMIKILLED STEEL BILLETS
67-11 M04-80853
QUALITY OF AXLE STEEL WHEN BATH IS OXYGEN-BLOWN
67-11 M04-80854
SPRAY STEELMAKING 67-11 M04-81137
MELTING STEEL IN ACID-LINED INDUCTION FURNACES
67-12 M04-82084
DESIGN FOR TOMORROWS STEELMAKING FURNACE
67-12 M04-83169
TECHNOLOGICALLY IMPROVED DEOXIDATION OF RAIL STEEL WITH ALUMINUM 67-12 M04-83413
NEW STEELMAKING PRACTICE FOR PRODUCING HIGH GRADE LOW CARBON NON-AGING 08YU STEEL
67-12 M04-83419
PRODUCING CABLE STEEL IN LARGE OPEN-HEARTH FURNACES
67-12 M04-83420
EFFECT OF DEOXIDATION BY MEANS OF ALUMINIUM-CONTAINING FERROALLOY ON THE QUALITY OF TUBE STEEL 67-12 M04-83421
DEOXIDIZING RAIL STEEL WITH SILICOMANGANESE
67-12 M04-83471
THE INFLUENCE OF CO, MO, NI, V AND W ON THE ACTIVITY OF C IN LIQUID STEEL WITH HIGHER C CONTENTS 67-12 M15-82395

CARBON STEELS, METAL FORMING
THE FEASIBILITY OF ROLL FORMING SPHERICAL BOTTOMS ON THICK-WALLED TUBULAR BILLETS
67-07 M08-73953

CARBON STEELS, METAL WORKING
POWER PARAMETERS FOR ROLLING BILLETS
67-01 M07-57184
ON THE PRODUCT OF PLATE MILL AT WAKAYAMA STEEL WORKS 67-01 M07-58244
HEAVY I-BEAMS TAKE CURVES EASILY
67-01 M07-58486
SHAPE IMPROVEMENT OF THIN STEEL STRIP BY TENSION LEVELLER 67-01 M07-58564
TRANSVERSE EXTRUSION. PT. 1 67-01 M07-58716
DISCUSSION OF THE STRETCH-FORMABILITY
67-01 M08-58246
NK HP-1, STEEL PLATE FOR HOT PRESSING
67-01 M08-58565
FINE-BLANKED STAMPINGS NEED NO DEBURRING, SIZING
67-01 M08-58785
METAL FLOW IN STEEL FORGINGS 67-02 M07-59463
PRODUCING RING FORGINGS 67-02 M07-59827
HERF SHEARS EDGES CLEAN 67-02 M07-61006
PRESSURE OF METAL ON ROLLERS WHEN ROLLING BY OVAL-SQUARE AND OVAL-EDGE OVAL SYSTEM
67-02 M07-61212
COMPUTERS CONTROL TUBE ROLLING 67-02 M07-61855
WORKING OF UNALLOYED STEEL WIRE
67-02 M08-58871
THE COLD NECKING OF 3 TO 9 MM THICK SHEETS AND TUBES --2-- 67-02 M08-59807
FORMING CHANNELS WHICH HAVE VERTICAL FLANGES
67-02 M08-59823
PRECISION UPSETTING OF FLANGED RODS USING LOCAL INDUCTION HEATING 67-02 M08-59826
COMMERCIAL PRODUCTION OF TWIST DRILLS BY THE SUPERFORGE PROCESS 67-02 M08-61564
THE COEFFICIENT OF FRICTION IN COLD ROLLING
67-03 M07-65938
A CRITICAL LOOK AT ULTRASONIC METALWORKING PROCESSES 67-03 M08-65620
THE SELECTION OF LUBRICANTS IN DEEP DRAWING
67-03 M08-65727
COMPUTER-CONTROLLED CONTINUOUS TUBE MILL
67-04 M07-66700
THE QUALITY OF ELECTRICALLY WELDED TUBE AS RELATED TO THE FLAT ANISOTROPY OF THE HOT ROLLED STRIP
67-04 M07-68148
EVALUATION OF STEEL WIRE-DRAWING LUBRICANT BY RADIO ISOTOPE 67-04 M07-68174
APPLICATION OF A PETROFORGE MACHINE TO HIGH-SPEED SHEARING OPERATIONS 67-04 M08-66107
USING THE FLOW RULE IN ANALYZING THE PROCESSES OF SHEET METAL STAMPING 67-04 M08-67039
EXTRUDING DOWN PLUS FORGING UP GIVES HIGH HEAD-TO-SHANK RATIOS 67-05 M07-68303
SHRINK FORMING 67-05 M08-69317
FORMING TITANIUM IN HOT PRESS-WORKING
67-05 M08-69540
SURFACE ROUGHNESS OF LOW-CARBON LIGHT GAGE COLD ROLLED STEEL AND ITS EFFECT ON THE STAMPING-DRAWING PROCESS 67-05 M08-69696
THE HOT WORKABILITY OF STEEL IN THE TEMPERATURE RANGE OF THE AC1 POINT 67-05 M17-69322
SENDZIMIR HOT AND COLD MILLS AND THEIR OPERATION IN CONJUNCTION WITH CONTINUOUS CASTING
67-06 M07-70132
DETERMINING ABSOLUTE STRAINS IN MANDREL-FREE DRAWING OF TUBES 67-06 M07-70283
HIGH-VELOCITY FORMING BY PNEUMATIC-MECHANICAL MEANS
67-06 M07-70448
THE EFFECT OF MATERIAL PROPERTIES ON DISHING AND DEEP DRAWING WITH CONSIDERATION OF DEEP DRAW TESTING 67-06 M07-70453
STUDY OF THE EFFECT OF MATRIX GEOMETRY ON DEEP DRAWING WITH EXPANSION 67-06 M07-70475
DEEP DRAWABILITY OF 08 SEMIKILLED STEEL SHEET
67-06 M07-70476
FACTORS IN SELECTING MATERIALS FOR FORMING
67-06 M07-70722
EXPLOSIVE FORMING AT NORTH AMERICAN AVIATION
67-06 M07-71582
MANUFACTURE OF SEAMLESS STEEL PIPE AND TUBING
67-06 M07-72138
MANUFACTURE OF WELDED STEEL PIPE
67-06 M07-72139
SMOOTH-EDGE BLANKING FOR ACCURATE STAMPINGS
67-06 M08-69955
DETERMINING THE CONTACT AREA WHEN SPINNING BOTTOMS
67-06 M08-70281
A METHOD OF STUDYING BULGING FORCES IN SHEET STAMPING 67-06 M08-70282
THE TECHNOLOGICAL TESTING OF DEEP DRAWING AND BULGING ABILITY 67-06 M08-71272
FINE BLANKING--TOO GOOD FOR U. S. STAMPERS TO PASS UP 67-06 M08-71885
HIGH-TEMPERATURE AUSFORMING OF ST. 3 CARBON STEEL
67-06 M10-70064
TOOLS MADE OF CRUCIBLE STEELS AND COMPARABLE GRADES
67-06 M20-72137
RECTIFICATION OF STEEL CASTINGS BY LOCALIZED HEATING 67-07 M06-73049
TESTING THE SUITABILITY OF BOUNDARY-ACTIVE LUBRICANTS FOR COLD WORKING 67-07 M07-72545
MANUFACTURE OF SEAMLESS TUBES IN A MODERN TUBE

PUSH BENCH 67-07 M07-72909
THREE ROLL PIERCER FOR BETTER TUBES 67-07 M07-73127
INVESTIGATION OF THE STRENGTHENING OF ST. 3 AND KH17N13M2T STEELS DURING STRAIGHTENING 67-07 M07-73197
MANUFACTURING OF HOLLOW FORGINGS FROM INGOTS FREE OF SHRINKAGE DEFECTS 67-07 M07-73440
MAGNETISM TAMED FOR FORMING 67-07 M07-73693
SURFACE ROUGHNESS OF LOW-CARBON COLD-ROLLED SHEET STEEL AND THE EFFECT OF ROUGHNESS ON THE STAMPING-ELONGATION PROCESS 67-07 M08-74082
COMMERCIAL PRODUCTION OF PROFILES OF 40 STEEL WITH AUSROLLING 67-07 M10-73788
THE PRODUCTION OF CLAD HOLLOW BODIES BY HOT EXTRUSION 67-08 M07-75108
THE EFFECTS OF TEMPERATURE, SPEED AND STRAIN-RATE ON THE FORCE AND ENERGY REQUIRED IN BLANKING 67-08 M08-76048
THE FINE BALNKING PROCESS 67-08 M08-76194
JOUVENCEL.. A ZERO CARBON STEEL 67-09 M07-77108
RECENT DEVELOPMENTS AND CURRENT PRACTICE IN THE MANUFACTURE OF HIGH CARBON STEEL WIRE IN THE REPUBLIC OF SOUTH AFRICA 67-09 M07-77822
THE EFFECT OF DIFFERENT CONDITIONS OF COOLING ON THE PROPERTIES OF WIRE ROD OF UNALLOYED STEEL DURING ROLLING ON A CONTINUOUS WIRE MILL TRAIN 67-09 M07-78050
STUDY ON WARM WORKING. PT. 2. ROLLER STRAIGHTENING OF MILD STEEL BY WARM WORKING PROCESS 67-09 M07-78213
PLASMA ARC CUTTING 67-09 M08-76672
THREE AXIS PLATE PUNCHING 67-09 M08-77697
INDUSTRIAL PRODUCTION OF ROLLED SECTIONS OF 40 STEEL WITH THERMOMECHANICAL TREATMENT 67-09 M10-76551
COMPARISON OF DEEP DRAWING TESTS --RESULTS OF COOPERATIVE TESTING PROGRAM OF WORKING GROUP III OF THE INTERNATIONAL DEEP DRAWING RESEARCH GROUP-- 67-09 M17-76382
THE EFFECT OF THERMOMECHANICAL TREATMENTS ON THE PROPERTIES AND STRUCTURES OF ALLOY STEELS 67-10 M07-78394
DEEP DRAWING OF CYLINDRIC PARTS FROM CONIC BILLETS 67-10 M07-78548
HIGH-SPEED SHEARING OPERATIONS ON THE PETROFORGE 67-10 M08-78598
HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT OF ST. 3 STEEL 67-10 M08-78810
ALTERATIONS IN DENSITY AND FINE STRUCTURE DURING DRAWING OF STEEL WIRE 67-10 M13-78962
CLOSED-DIE FORGING IN SCOTLAND. PT. 2 67-11 M07-80420
GAS-JET LASER CUTTING 67-11 M08-81002
DETERMINING THE FORCE IN SPIN FORMING BOTTOMS WITH A FLAT TOOL 67-11 M08-81658
DEFORMABILITY OF DEEP-DRAWING SHEETS UNDER BIAXIAL TENSILE STRESS 67-11 M17-80398
STRAIN-HARDENING AND STRAIN-RATE EFFECTS IN PLASTIC FLOW THROUGH CONICAL CONVERGING DIES 67-11 M17-81025
EFFECT OF NITROGEN AND ALUMINUM ON DUCTILITY AND DRAWABILITY OF HIGH CARBON STEEL, USED FOR LARGE DIAMETER WIRES 67-12 M07-82386
A COMPARISON OF MODERN WIRE ROD MILLS--DESIGN, STRUCTURAL DETAILS AND RESULTS 67-12 M07-82556
WARM PRESSURE SHAPING OF METALS 67-12 M07-83334
INFLUENCE OF WALL THICKNESS ON PRECISION DURING MANUFACTURE OF BOTTOMS BY SPIN FORMING 67-12 M08-81800
THE STAMPABILITY OF THIN SHEETS 67-12 M08-82059
THE EFFECT OF CERTAIN METALLURGICAL AND MECHANICAL FACTORS ON METAL FLOW DURING COLD NUT FORMING 67-12 M08-82275
CLASSIFICATION OF COLD ROLLED SHEETS 67-12 M08-82388
RESEARCH RESULTS CONCERNING ELECTROHYDRAULIC FORMING 67-12 M08-82925
PROBLEMS OF THE TESTING OF DEEP DRAWABILITY 67-12 M08-82934
THE MECHANISM OF FORMING IN BENDING 67-12 M17-82776
SOUND CONTROL IN DESIGN THROUGH THE USE OF STEEL LAMINATES 67-12 M20-82988

CARBON STEELS, METALLOGRAPHY

FORMATION OF CHROMIUM-ALLOYED LAYERS ON CASTINGS 67-02 M06-61225
WORK WITH THE HIGH-TEMPERATURE MICROSCOPE 67-12 M13-83397

CARBON STEELS, MICROSTRUCTURE

HOT ROLLING TEXTURE OF LOW-CARBON STEEL 67-01 M13-58238
GRAIN GROWTH IN 45 STEEL DURING RAPID HEATING 67-01 M14-57140
INFLUENCE OF BINDING NITROGEN BY ALUMINUM ON SOME AFTEREFFECTS DURING COLD AND HOT PLASTIC SHAPING OF STEEL 67-01 M14-57151
RECRYSTALLIZATION TEXTURES IN COLD-ROLLED ELECTROLYTIC IRON CONTAINING ALUMINUM AND NITROGEN 67-01 M14-57414
TEXTURE OF HOT ROLLED BAND OF SILICON IRON 67-01 M14-58239
EFFECT OF CRYSTALLOGRAPHIC TEXTURE ON PRESS FORMING OF EXTRA-LOW-CARBON RIMMED STEEL SHEET 67-01 M17-58240
EFFECT OF LONG-TIME STRESS ON CARBIDE COAGULATION IN CARBON STEEL 67-02 M14-58868
THE EFFECT OF HEAT TREATMENT ON SOME PROPERTIES OF COLD-ROLLED STRIP 67-02 M14-59808
ON THE FINE SPHERICAL CEMENTITE PRECIPITATED IN THE PROEUTECTOID FERRITE OF THE HYPOEUTECTOID PLAIN CARBON STEEL BY QUICK THERMAL CYCLING 67-02 M14-60150
X-RAY INVESTIGATION ON FATIGUE FRACTURE OF NOTCHED STEEL SPECIMEN. OBSERVATION OF FATIGUE PHENOMENA OF ANNEALED LOW-CARBON STEEL BY X-RAY MICROBEAM TECHNIQUE 67-03 M13-65196
MICROSCOPIC OBSERVATIONS OF PRECIPITATES IN SOME LOW-ALLOY STEELS AFTER CREEP TESTING 67-03 M13-65820
SOME PHENOMENA ON THE GRAIN BOUNDARIES IN THE WELD-AFFECTED ZONE 67-04 M13-66801
INFLUENCE OF PRELIMINARY HEAT TREATMENT ON DISPERSIVENESS OF IMPURITIES AND STABILITY OF AUSTENITIC GRAINS 67-04 M14-66364
STUDY OF GRAIN GROWTH IN MEDIUM CARBON STEELS DURING RAPID HEATING 67-04 M14-67139
EFFECT OF PRELIMINARY HEAT TREATMENT AND ALUMINUM NITRIDES ON AUSTENITE GRAIN GROWTH 67-04 M14-67852
QUALITY OF STEEL FROM CONTINUOUSLY CAST BILLETS. PT. 1. THE QUALITY OF HIGH-CARBON STEEL WIRE ROD ROLLED FROM BILLETS CONTINUOUSLY CAST FROM BASIC OXYGEN LD STEEL 67-05 M01-68732
METALLOGRAPHY OF DEFORMATION AND FAILURE IN CROSS-ROLLING 67-05 M07-68402
INFLUENCE OF RARE EARTH ELEMENTS ON THE CRYSTALLIZATION OF CARBON STEEL 67-05 M13-68378
DEFORMATION OF CEMENTATION 67-05 M13-68756
BANDING IN CARBON AND LOW-ALLOY STEEL--A BRIEF REVIEW 67-05 M13-69871
A FIELD-ION MICROSCOPE STUDY OF GRAIN BOUNDARIES IN IRON 67-06 M13-70421
OCCURRENCE OF BORON IN OXIDE INCLUSIONS IN STEEL 67-06 M13-70808
PROBLEMS IN THE DIRECT DETERMINATION OF GRAIN SIZE AT ELEVATED TEMPERATURES 67-06 M13-72160
ELECTRON-MICROSCOPIC INVESTIGATION OF FINE CUTTING BY RAZOR BLADES 67-06 M13-72164
STUDY OF THE SURFACE MICRORELIEF OF STEEL WITH A WIDMANSTATTEN STRUCTURE 67-06 M14-69979
INTERACTION OF DISLOCATIONS AND PRECIPITATES IN QUENCH-AGED IRON-CARBON ALLOYS SUBJECTED TO CYCLIC STRESSING 67-06 M14-70420
EFFECTS OF CARBIDE SIZE AND SPACING ON INTERSTITIAL AND CARBIDE STRENGTHENING IN A 0.3 PER CENT C STEEL 67-06 M14-70812
DEFECTS OF ANNEALED HIGH-CARBON STEEL STRIP 67-07 M14-73263
THE MECHANISM OF INOCULATING STEEL WITH ZIRCONIUM 67-08 M04-74583
A METALLOGRAPHIC STUDY OF SINTERED STEEL 67-08 M09-75493
INFLUENCE OF ALLOYED ELEMENTS ON THE FORMATION OF THE WIDMANSTATTEN STRUCTURE 67-08 M13-74959
ROLE OF GRAIN BOUNDARIES IN THE DISCONTINUOUS YIELDING OF LOW-CARBON STEELS 67-08 M13-75580
A METHOD FOR THREE-DIMENSIONAL STRUCTURE OBSERVATION 67-08 M13-75661
PHENOMENA OCCURRING AT GRAIN BOUNDARIES IN THE HEAT AFFECTED ZONE 67-08 M13-75905
FINE CRYSTAL STRUCTURE OF THE SURFACE LAYER OF

STEEL HARDENED WITH ROLLERS 67-08 M13-76004
MICROSTRUCTURAL CHANGES IN SURFACE LAYERS OF MACHINED MATERIALS. IN PARTICULAR, A CONTRIBUTION TO THE STUDY OF THE MORPHOLOGY OF THE WHITE LAYERS 67-08 M14-75572
STUDY OF THE MICROCHARACTERISTICS OF STRAIN IN REAL ALLOYS 67-08 M17-75882
CHANGES IN MAGNETIC PATTERNS AND OXIDATION RATE OF FERRITE CRYSTALS DURING INITIAL STAGES OF ELASTOPLASTIC DEFORMATION 67-08 M17-76229
CONSIDERATIONS ON THE NATURE OF THE MICROPARTICLES IN MILD STEEL WELD METAL 67-09 M13-76361
MICROSTRUCTURAL DAMAGE ADJACENT TO A BRITTLE FRACTURE 67-09 M13-76651
VIBRATING GRINDING AND VIBRATORY POLISHING OF STEEL IN METALLOGRAPHY. PT. 1 67-09 M13-77795
GRAPHITIZING CONDITION AND STRUCTURAL CHANGE OF CALCIUM GRAPHITE STEEL 67-09 M14-78245
AN ELECTRON-MICROSCOPE STUDY OF NB PRECIPITATES IN LOW CARBON STEELS 67-09 M14-78293
MARTENSITE INCLUSIONS IN STEEL WIRES DEVELOPED DURING DRAWING OR THROUGH WRONG USE OF ROPES 67-10 M13-78321
HIGH-TEMPERATURE MICROSCOPE EXAMINATION OF AUSTENITE GRAIN GROWTH IN HARDENABLE STEELS 67-10 M14-78654
EFFECTS OF PRELIMINARY HEAT TREATMENT ON THE SIZE OF INCLUSIONS AND THE STABLE AUSTENITE GRAIN SIZE 67-11 M14-80966
STRUCTURAL EFFECTS IN PULSED STRAINING OF LOW-CARBON STEEL 67-12 M13-81716
MIGRATION OF AUSTENITIC GRAIN BOUNDARIES IN MEDIUM-CARBON HYPOEUTECTOID STEEL DEOXIDIZED WITH ALUMINUM 67-12 M13-82484

CARBON STEELS, NONDESTRUCTIVE TESTING
CONTINUOUS NONDESTRUCTIVE MAGNETIC TESTING OF STEEL STRIP 67-01 M19-57935
FINISHING OF INTERMEDIATE PRODUCTS 67-02 M12-62069
NONDESTRUCTIVE TESTING FOR METALLURGICAL CHANGES IN BOILER TUBES 67-02 M19-60254
THE AUTOMATION OF ULTRASONIC TESTING OF FLAT-ROLLED PRODUCTS 67-04 M19-67201
THE ULTRASONIC LOCATION OF DEFECTS IN FLASH WELDED RAILS 67-04 M19-67678
EFFECTS OF THE INSPECTING CONDITIONS ON THE RESULTS IN MAGNETIC PARTICLE INSPECTION 67-04 M19-67724
INFLUENCE OF ULTRASONIC VIBRATION ON GRAIN GROWTH OF AUSTENITE DURING ANNEALING 67-05 M10-69510
THE CONTINUOUS ULTRASONIC TESTING OF HOT ROLLED STRIP 67-07 M19-72681

CARBON STEELS, OXIDATION
SIZE EFFECTS DURING OXIDATION AND SUBSEQUENT REDUCTION OF STEEL WIRE 67-09 M18-77355
HIGH TEMPERATURE OXIDATION OF MILD STEELS CONTAINING ARSENIC AND TIN AS TRAMP ELEMENTS 67-09 M18-78133
BREAKAWAY PHENOMENON DURING OXIDATION OF MILD STEEL 67-10 M18-78335
SCALE BLISTERS ON FERROUS ALLOYS 67-12 M18-83216

CARBON STEELS, PHASE TRANSFORMATIONS
NATURE OF CERTAIN FEATURES IN THE MARTENSITE TRANSFORMATION 67-01 M14-57103
STUDY ON TRANSFORMATION FEATURES OF CARBURIZING CR-MO STEELS 67-01 M14-58309
STRUCTURAL TRANSFORMATIONS DURING HEATING OF STEEL 67-02 M14-60285
CARBIDE TRANSFORMATIONS ON THE RAPID DEFORMATION OF STEEL 45 67-02 M14-61169
FORMATION OF AUSTENITE DURING ELECTRIC HEATING OF HYPEREUTECTOID STEEL 67-04 M14-66371
TRANSFORMATION OF AUSTENITE DURING CONTINUOUS COOLING 67-04 M14-67615
STUDY OF THE EFFECT OF SHOCK WAVES ON AUSTENITE TRANSFORMATION 67-04 M14-67854
DIMENSIONAL CHANGES IN THE ALPHA-GAMMA TRANSFORMATION OF IRON 67-04 M15-67413
THE PHASE TRANSITION DUE TO SHOCK COMPRESSION IN IRON 67-05 M14-68843
FIRST TRANSFORMATION IN TEMPERING CARBON STEEL 67-06 M14-70162
EFFECTS OF IDENTICAL COOLING CONDITIONS ON THE STRUCTURE AND PROPERTIES OF STEEL BLANKS WITH DIFFERENT DIMENSIONS 67-06 M14-71110
INTERRELATION OF ISOTHERMAL AND CONTINUOUS-COOLING HEAT TREATMENTS OF LOW-ALLOY STEELS AND THEIR PRACTICAL SIGNIFICANCE 67-06 M14-71934
KINETICS OF THE DECOMPOSITION OF AUSTENITE AND FORMATION OF MICROSTRUCTURE OF STEEL IN THE BAINITE REGION 67-06 M14-72377
SOME EFFECTS OF LASER RADIATION ON METALS 67-06 M16-70107
THE EFFECT OF SMALL NB ADDITIONS ON THE RECRYSTALLIZATION OF AUSTENITE AFTER HOT WORKING 67-07 M14-72529
THE PROBLEM OF STABILIZING AUSTENITE 67-08 M14-74343
INFLUENCE OF STRUCTURAL IMPERFECTIONS ON THE GRAPHITIZATION OF WHITE CAST IRON AND STEEL 67-08 M14-76032
THE PART PLAYED BY NITROGEN AND HYDROGEN IN THE FORMATION OF CENTERS OF GRAPHITIZATION IN CAST GRAPHITIZED STEEL 67-09 M14-76987
PHASE CHANGES IN HIGH-SPEED DEFORMATION OF STEEL 67-09 M14-77866
EFFECTS OF SHOCK PLASTIC DEFORMATION ON THE PHASE CHANGES AND STRUCTURAL TRANSFORMATIONS IN STEELS 67-10 M14-78348
THERMOKINETIC DIAGRAM AND COOLING CURVES, PRODUCT STRUCTURE AND PROPERTIES 67-10 M14-79855
INFLUENCE OF THE PARTIAL MARTENSITIC TRANSFORMATION ON THE ISOTHERMAL TRANSFORMATION OF AUSTENITE 67-10 M14-80016
FORMATION OF AUSTENITE DURING ELECTRICAL HEATING OF HYPEREUTECTOID STEEL 67-11 M14-80973
THE PHENOMENA OF GRAPHITE PRECIPITATION OF CALCIUM GRAPHITE STEEL 67-11 M14-81058
THE PROCESS OF GRAPHITE PRECIPITATION OF CALCIUM GRAPHITE STEEL 67-11 M14-81059
THE CONTINUOUS COOLING TRANSFORMATION OF WELDABLE HIGH-STRENGTH STEELS 67-12 M14-81745
EVOLUTION OF IRON CARBIDES DURING TEMPERING OF MARTENSITE 67-12 M14-81814
ELECTRON-MICROSCOPE INVESTIGATION OF THE TEMPERING OF HARDENED STEEL 67-12 M14-82153
THEORY OF THE INFLUENCE OF PRESSURE ON AUSTENITE DECOMPOSITION IN HYPO-EUTECTOIDAL STEEL 67-12 M14-82411
GROWTH RATE OF BAINITE FROM LOW-CARBON IRON-NICKEL-CARBON AUSTENITE 67-12 M14-82715
MORPHOLOGY AND KINETICS OF AUSTENITE DECOMPOSITION AT HIGH PRESSURE 67-12 M14-82869

CARBON STEELS, PHASES /STATE OF MATTER/
STUDY OF AS-ROLLED CARBON STEELS OVER RANGES OF URANIUM, SULFUR AND CARBON CONTENTS 67-02 M01-60925
THE PHENOMENOLOGICAL THEORY OF COMPOSITE MARTENSITE. PT. 1. THE --HHL-- HABIT IN STEELS 67-04 M13-66057
THE DISSOLUTION, PRECIPITATION AND AGE HARDENING EFFECT OF NIOBIUM IN PLAIN CARBON STEEL. PT. 1 67-09 M14-76797
THERMODYNAMICS OF BINARY FE-C AUSTENITE AND CEMENTITE 67-09 M15-77714

CARBON STEELS, PHYSICAL PROPERTIES
RELATIVE INTERFACIAL ENERGIES IN FE-C ALLOYS 67-04 M15-66049
DEFORMATION MECHANISM OF STEEL CONSIDERED AS A RESULT OF TWO ACTIVATION PROCESSES 67-05 M15-68910
STUDY OF THE WETTING OF TITANIUM 3 STEEL AND 1KH18N9T STEEL BY MAGNESIUM AND MAGNESIUM CHLORIDE 67-06 M15-71129
PHYSICAL PROPERTIES OF STEELS 67-12 M15-82394

CARBON STEELS, PICKLING
FACTORS INFLUENCING THE PICKLING TIME REQUIRED FOR HOT ROLLED STEEL STRIP 67-06 M12-71384

CARBON STEELS, PIERCING
STUDYING THE WORKABILITY OF STEEL IN OBLIQUE ROLLING TO PROVIDE RESULTS IN TERMS OF PIERCING 67-04 M07-67450

CARBON STEELS, PIPELINES
NEW DEVELOPMENTS IN TUBE TESTING MACHINES 67-01 M17-58117
LOUISIANA PRODUCTS LINE COATED WITH ZINC SILICATE SYSTEM 67-06 M18-70893
BACTERIAL CORROSION OF STEEL WATERPIPES 67-11 M18-81279

CARBON STEELS, PLATE /METAL/
HIGH ENERGY-RATE FORMING SOME UNUSUAL APPLICATIONS 67-06 M07-70865

CARBON STEELS, PLATING
A METHOD OF LOCAL TINNING OF HUNTING RIFLE BARRELS 67-06 M11-70398

A METHOD OF LOCALLY TINPLATING SHOTGUN BARRELS
67-09 M11-78098
CARBON STEELS, POWDER METALLURGY
SOME PROPERTIES OF P/M NICKEL ALLOY STEEL
67-07 M09-73958
A STEEL POWDER FOR HIGH DENSITY PARTS
67-08 M09-74489
CARBON STEELS, POWDER METALLURGY PARTS
THE MOTION OF GASES AND LIQUIDS IN POROUS SINTERED MATERIALS
67-02 M09-62125
CARBON STEELS, PUNCHING
A NEW DEVICE FOR PIERCING LARGE UPSET FORGINGS ON STEAM-HYDRAULIC PRESSES
67-01 M07-57249
CARBON STEELS, QUALITY CONTROL
PRODUCTION AND QUALITY OF BASIC OXYGEN ALLOY STEELS
67-07 M04-73096
INCREASED DEMANDS ON STEEL WIRE ROPES--WAYS OF IMPROVING WIRE QUALITY
67-10 M10-78573
CARBON STEELS, QUENCHING /COOLING/
DEVELOPMENT IN EQUIPMENT AND PRACTICES FOR QUENCHING STEEL PLATES
67-03 M10-65923
DEVELOPMENT IN EQUIPMENT AND PRACTICES FOR QUENCHING STEEL PLATES
67-04 M10-67368
CARBON STEELS, RAILROAD TRACK
FORMATION OF A WHITE LAYER IN RAILROAD RAIL HEADS
67-04 M17-66623
CARBON STEELS, REACTIONS /CHEMICAL/
BEHAVIOR OF OXYGEN IN LIQUID STEEL AND PRINCIPLES OF DEOXIDATION KINETICS
67-01 M04-58242
OXIDATION OF MOLTEN IRON ALLOYS WITH ATMOSPHERE
67-02 M04-59153
INFLUENCE OF ALIPHATIC AMINES ON HYDROGENATION OF STEEL DURING CATHODE POLARIZATION IN ACID
67-02 M18-60974
HYDROGEN ATTACK OF STEEL UNDER DYNAMIC EXPOSURE CONDITIONS
67-03 M18-65405
EXPERIENCE IN DEOXIDIZING STEEL WITH SILICO-ALUMINUM
67-04 M04-66035
RATE OF DECARBURIZATION OF MOLTEN IRON-CARBON ALLOYS WITH OXIDIZING GAS
67-04 M04-67555
EFFECTS OF ALUMINUM ON THE PROPERTIES AND QUALITY OF GRADE 25L CONVERTER AND ACID ELECTRIC FURNACE STEEL
67-04 M04-67862
EFFECT OF STRESSES ON STEEL DECARBURIZATION
67-04 M14-66027
INFLUENCE OF HYDROGEN, HIGH TEMPERATURE AND HIGH PRESSURE ON MECHANICAL PROPERTIES OF METALS
67-04 M17-66345
DISSOLUTION OF STEEL AND ABSORPTION OF HYDROGEN BY STEEL DURING ACID PICKLING IN PRESENCE OF INHIBITOR. PT. 2
67-04 M18-66304
FORMATION AND REMOVAL OF OXIDE INCLUSIONS DURING TAPPING, CASTING AND CRYSTALLIZATION OF LOW-CARBON STEEL
67-06 M04-69968
KINETICS OF SILICA REDUCTION BY CARBON-SATURATED IRON. PT. 2. REDUCTION OF SOLID SILICA BY CARBON IN LIQUID IRON
67-06 M04-70811
REACTION BETWEEN LIQUID STEEL AND REFRACTORIES UNDER VACUUM. PT. 2. STUDY OF REFRACTORIES USED IN STEELMAKING
67-06 M04-72392
INTERFACIAL REACTIONS IN LEAD OXIDE-BEARING ENAMEL-METAL SYSTEMS
67-06 M14-71163
ON THE KINETICS OF HYDROGEN ATTACK OF STEELS
67-08 M14-76050
CONTRIBUTION TO THE STUDY OF THE PHENOMENA OCCURRING DURING THE OXIDATION OF A STEEL BATH
67-09 M14-76379
CARBON STEELS, REELS
HORIZONTAL PICKLING LINE DESIGNED FOR HYDROCHLORIC ACID
67-06 M12-70842
CARBON STEELS, REFINING
COMPARISON OF PREDEOXIDATION METHODS OF OPENHEARTH STEEL
67-01 M04-58134
IMPROVED QUALITY SMALL-GAGE STEEL
67-02 M04-59536
METHOD OF REDUCING THE FLAKING TENDENCY OF STEEL
67-02 M04-59539
METHOD FOR THE SELECTIVE REFINING OF STEEL OR OTHER METALS IN OXYGEN CONVERTERS
67-02 M04-59560
DETERMINATION OF THE EFFECT OF VACUUM DEGASSING ON THE QUANTITY OF INCLUSIONS IN STEEL
67-02 M04-59590
PRODUCTION OF COMMERCIALLY PURE IRON FROM VACUUM DESULFURIZED PIG IRON. PT. 1
67-02 M04-61211
PARTICIPATION OF CHROMIUM IN THE DEOXIDATION OF STEEL
67-02 M04-62254
VACUUM DEGASSING IMPROVES STEEL FORGING QUALITY
67-03 M06-65117
DISSOLUTION OF OXYGEN IN IRON-CARBON MELT DURING DECARBURIZATION
67-04 M04-66075
DEGASIFICATION OF METAL WHILE BEING TREATED WITH SLAGS
67-04 M04-67869
VACUUM DEGASSING FOR STEEL PLATE
67-05 M04-69434
STEEL DEGASSING, REFINING AND REHEATING IN A SINGLE LADLE
67-06 M04-70693
POTENTIAL OF ELECTROSLAG REFINING
67-06 M04-71580
DEOXIDATION OF IRON-CARBON ALLOYS WITH CERIUM AND THE RESULTING NONMETALLIC INCLUSIONS
67-06 M04-72209
EFFECT OF THE TAP DEGASSING PROCESS ON THE DEGASSING OF STEEL FOR LARGE FORGINGS. PT. 1. EFFECT OF THE STATE OF DEOXIDATION OF THE BATH ON DEGASSING
67-06 M06-72394
PRODUCTION OF HIGH-GRADE KILLED STEELS IN THE BASIC OXYGEN LD FURNACE. PT. 4. THE PRODUCTION OF ALLOY STEELS IN THE BASIC OXYGEN FURNACE
67-07 M04-72550
VACUUM DEGASSING FOR TONNAGE PLATE STEELS
67-07 M04-73082
ELECTROMAGNETIC CHARGING OF MOLTEN METAL TO IMPROVE THE PURITY OF CASTINGS
67-07 M06-74043
ASEA-SKF--VACUUM DEGASSING PROCESS
67-08 M04-74655
NORMS OF THE CONSUMPTION OF ALUMINUM FOR DEOXIDIZING CARBON STEEL
67-08 M04-75188
ADDITIONS OF ALUMINUM FOR DEOXIDATION OF STEEL
67-08 M04-75539
CONTROL OF LADLE ANALYSIS USING A VACUUM DEGASSING UNIT
67-09 M04-76424
ELECTRO-SLAG REFINING TECHNOLOGY
67-09 M04-77800
SURFACE ACTIVITY IN ELECTROSLAG REMELTING
67-10 M04-78426
LADLE-TO-LADLE VACUUM STREAM DROPLET DEGASSING AT SHARON STEEL CORPORATION. PT. 3
67-11 M04-80905
USE OF BOIL INTENSIFIERS IN TEEMING
67-11 M04-81036
LADLE DEOXIDIZING TUBE STEEL
67-11 M04-81037
THE FORMATION OF PRIMARY DEOXIDATION PRODUCTS IN STEEL. PT. 1. THE DEOXIDATION OF UNALLOYED STEELS WITH AL
67-11 M04-81374
RELATIONSHIP BETWEEN METAL CARBON CONTENT AND FERROUS OXIDES IN THE SLAG
67-11 M04-81403
NONMETALLIC INCLUSIONS IN RAIL STEEL AS ALLOYED WITH RARE EARTH ELEMENTS
67-11 M04-81447
DECARBURIZATION OF A LEVITATED IRON DROPLET IN OXYGEN
67-12 M04-82862
PHENOMENA OCCURRING DURING THE FORMATION OF PRIMARY DEOXIDATION PRODUCTS IN STEELS. PT. 2. DEOXIDATION OF UNALLOYED STEELS BY TITANIUM AND OF ALLOY STEELS BY ALUMINIUM
67-12 M04-83394
KINETICS OF THE FORMATION OF ALUMINA INCLUSIONS DURING DEOXIDATION OF LIQUID IRON WITH ALUMINUM
67-12 M04-83395
CARBON STEELS, ROLLING
HIGH-SPEED COLD ROLLING OF LOW-CARBON STEEL SHEET AS A FUNCTION OF LUBRICANT TYPE
67-01 M07-58091
HOW ROLLING RATE AFFECTS BITE TORQUE ON A COLD 2800 MILL
67-01 M07-58171
INLANDS 80-IN. HOT STRIP MILL
67-01 M07-58493
HIGH SPEED MILL AT CONTRECOEUR
67-01 M07-58496
RATIONALIZATION OF ROLLING AND DRAWING PROCESS DESIGNS ANALYSIS
67-01 M07-58576
BILLET MILL AND WIRE ROD MILL AT THE APPLEBY-FRODINGHAM STEEL COMPANY, SCUNTHROPE, ENGLAND
67-01 M07-58577
ROLLING FORCE IN THE CASE OF SKINPASS ROLLING
67-02 M07-58844
COMPUTER ROLLS HOT SHEETS
67-02 M07-59002
THE PRODUCTION OF TUBES FROM CONTINUOUSLY CAST MATERIAL
67-02 M07-59134
PLASTIC PHENOMENA IN ROLLING
67-02 M07-59809
RECENT BAR AND SECTION MILL EQUIPMENT
67-02 M07-60167
INFLUENCE OF METALLURGICAL FACTORS ON HOT STRIP MILL DESIGN
67-02 M07-60238
ASPECTS OF THE MANUFACTURE OF COLD-ROLLED STEEL SHEET OF LOW-YIELD STRENGTH
67-02 M07-61654
EXPERIMENTAL STUDY OF CONTACT STRESSES IN HOT ROLLING OF CARBON STEELS
67-02 M07-61747
ROLLING ON A MILL WITH A HYDRAULIC SCREW-DOWN MECHANISM
67-02 M07-61748
EFFECT OF ROLLING PLAN ON QUALITY OF HEAVY-GAGE

CARBON STEELS

STEEL AND MILL PRODUCTIVITY 67-02 M07-61947
RELATIONSHIP OF THE COLD ROLLING PROCESS TO RATE OF CONTINUOUS MILL 67-02 M07-62266
WALL THICKNESS VARIATION OF TUBE AND ROLLING TORQUE IN STRETCH REDUCING MILL STEEL TUBE WORKS 67-02 M08-58847
RADICAL MILL INSURES FLATNESS IN LIGHTGAGE STRIP 67-03 M07-65435
EXPERIMENTAL USE OF AUTOMATIC REGULATION OF STRIP THICKNESS ON THE CONTINUOUS 2500 THIN PLATE MILL 67-04 M07-66212
NEW AND ECONOMICAL WIDE STRIP ROLLING MILL DRIVES USING UNIVERSAL BALL SPINDLES AND COUPLINGS AS NEW MACHINE ELEMENTS 67-04 M07-66327
CONTROL OF LUDERS MARKINGS ON MILD STEEL STRIP BY ROLLER-FLEXING UNDER TENSION 67-04 M07-67419
EQUATIONS FOR CALCULATING FORWARD SLIP AND EXPERIMENTAL VERIFICATION IN COLD ROLLING STRIP WITH TENSION 67-04 M07-67612
EFFECT OF ROLLING SCHEDULE ON QUALITY OF THICK PLATE STEEL AND MILL OUTPUT 67-04 M07-67778
MODERN PRODUCTION OF CIRCLIP WIRE 67-04 M07-68175
CHANGING STRIP THICKNESS AS AFFECTED BY ROLLING RATE 67-05 M07-68551
TUBE INVESTMENTS LTD. THREE-ROLL PIERCER PROVES DESIGN AFTER EXTENSIVE TESTING 67-05 M07-69487
CONSTANT GAP MILL IN SERVICE. HIGHLY SUCCESSFUL FIRST INSTALLATION AT DOLGARROG 67-05 M07-69872
EXPANSION AND DEFORMATION EFFICIENCY WHEN ROLLING IN DRAWING PASSES 67-06 M07-70279
LATROBE TAKES AIM ON HIGH-SPEED ROLLING 67-06 M07-70484
CALCULATION METHOD FOR HOT ROLLING OF STEEL SHEET AND STRIP 67-06 M07-70809
DETERMINATION OF STRESSES DURING HOT ROLLING OF CARBON STEELS 67-06 M07-70942
WORKING PRIOR TO FINISH ROLLING 67-06 M07-71209
EFFECT OF TRANSITION PROCESSES IN CONTINUOUS COLD ROLLING ON THE THICKNESS VARIATION OF THE STRIP 67-06 M07-71256
OPERATION OF A UNIT FOR CONTINUOUS REDUCTION OF ELECTROWELDED PIPES 67-06 M07-71257
ON THE RELATIVE VALIDITY OF TWO CURRENT COLD-ROLLING THEORIES 67-06 M07-71635
THE PRODUCTION OF WIDE STRIP FROM STEELS OF LOW CARBON CONTENT 67-06 M07-71704
VARIATIONS OF STRIP THICKNESS IN RELATION TO ROLLING SPEED 67-07 M07-72462
REPUBLIC STEELS NEW PLATE MILL AT GADSDEN 67-07 M07-72775
AN ASSESSMENT OF A COMBINED ROTARY PIERCING AND ELONGATING PROCESS FOR TUBE MAKING 67-07 M07-72813
CONTROL OF A MULTISTAND HOT-STRIP MILL 67-07 M07-72900
EXPERIMENTAL INVESTIGATION OF STRESS DISTRIBUTION IN ROLL-FORMING STRIP ON ROLL-BENDING MILLS 67-08 M07-74580
THE PROCESSING OF CONTINUOUSLY CAST BILLETS INTO BARS AND SHAPES 67-08 M07-75113
EFFECT OF TRANSITION PROCESSES IN CONTINUOUS COLD ROLLING ON THICKNESS VARIATIONS OF STRIP 67-08 M07-75725
EXPERIENCE WITH PLANT FOR CONTINUOUS REDUCTION OF ELECTRIC-WELDED TUBES 67-08 M07-75726
RHEOLOGICAL PROPERTIES OF STEEL AND LEAD 67-08 M07-75879
PRODUCTION OF BATCH ROLLED PROFILES 67-08 M07-76276
INVESTIGATION OF HIGH-SPEED COLD ROLLING OF LOW-CARBON STEEL WITH VARIOUS EMULSIONS 67-09 M07-77364
QUALITY OF ROLLED STOCK FROM CONTINUOUSLY CAST FLAT INGOTS 67-09 M07-77631
INVESTIGATION OF ROLLED PRODUCTS FROM CONTINUOUSLY CAST RECTANGULAR BILLETS 67-09 M07-77634
REASONS FOR THE EFFECT OF THE ROLLING SPEED ON THE COEFFICIENT OF FRICTION DURING COLD ROLLING WITH LIQUID LUBRICANTS 67-09 M07-77759
IMPROVEMENT OF PRECISION OF SHEET ROLLING ON A CONTINUOUS MILL 67-10 M07-78429
PRODUCING EFFICIENTLY ROLLED PERIODIC SECTIONS 67-10 M07-79269
INVESTIGATION OF THE EFFECT OF TEMPERATURE ON BITE AND PASSING IN THE ROLL GAP DURING HOT 67-10 M07-79391
EFFECT OF THE DEFORMATION ON THE CROSS-SECTIONAL THICKNESS TOLERANCE OF MILD STEEL STRIP 67-10 M07-79813
QUALITY OF ROLLED PRODUCT PRODUCED FROM CONTINUOUSLY CAST SLABS 67-11 M07-80919
ROLLING CONTINUOUSLY CAST RECTANGULAR STEEL BILLETS 67-11 M07-80922
SPECIFIC PRESSURE WHEN ROLLING BIMETALS BY THE PILE METHOD 67-11 M07-81654
ROLLING TEMPERATURES IN A CONTINUOUS HIGH-SPEED LIGHT-SECTION MILL 67-12 M07-81711
FRICTION DURING HIGH-SPEED COLD ROLLING OF METALS WITH VARIOUS LUBRICANTS 67-12 M07-81715
HOT ROLLING OF STEEL PRODUCTS FOR THE AUTOMOBILE INDUSTRY, WITH HIGH QUALITY AND DIMENSIONAL TOLERANCE 67-12 M07-82387
HIGHER DIMENSIONAL ACCURACY IN ROLLING SHEET ON THE CONTINUOUS MILL 67-12 M07-83427
ULTRASONICS INVESTIGATED AS A MEANS TO REDUCE ROLLING FORCES 67-12 M07-83596
PRELIMINARY THERMOMECHANICAL TREATMENT OF CARBON STEEL 67-12 M08-82413

CARBON STEELS, ROLLS
SURFACE FINISHING OF ROLLING MILL ROLLS 67-11 M07-80388

CARBON STEELS, SAWS
THE RESISTANCE AND LIFE OF BLADES FOR HOT SAWING OF METAL 67-04 M08-66629

CARBON STEELS, SHAFTS /POWER/
THE RELATIONSHIP BETWEEN BASIC MODES OF WEAR AND EXPERIENCE IN ENGINEERING PRACTICE 67-04 M17-66292

CARBON STEELS, SHEET /METAL/
ORGANIC COATINGS FOR STEEL SHEETS--CONTINUOUS PAINTING LINE 67-01 M12-58489
IMPROVING TINPLATES ALLOY LAYER 67-03 M12-65164

CARBON STEELS, SLEEVES
WEAR RESISTANCE OF ENGINE VALVE SEATS 67-04 M06-66425

CARBON STEELS, SOLDERING
USE OF SOLDERING PASTES IN INDUSTRY 67-02 M11-60012
THE MECHANISM OF SELF-FLUXING BRAZING ALLOYS 67-07 M11-73969

CARBON STEELS, SOLUBILITY
THE EFFECT OF VARIOUS HEAT TREATMENTS ON THE SOLUBILITY OF C IN ALPHA FE AND THE ELIMINATION OF AGING IN LOW CARBON STEELS 67-10 M10-78591

CARBON STEELS, SPRINGS /ELASTIC/
METHOD OF INCREASING THE ENDURANCE OF COMPRESSION SPRINGS 67-10 M17-78822

CARBON STEELS, STAMPING
DESIGN AND USE OF DIES FOR PRESSING SHAPES FROM STEEL 67-01 M08-57262

CARBON STEELS, STEEL MAKING
DEVELOPMENTS IN RESEARCH ON THE LD AND CG PROCESSES AND THEIR INDUSTRIALIZATION 67-01 M04-58107
ON THE MELTING TECHNIQUES OF THE HIGH-QUALITY SPECIAL STEEL SMELTING 67-01 M04-58243
PRODUCTION OF AL-KILLED STEEL FOR LOW TEMPERATURE USES IN CONVERTER 67-01 M04-58561
OPERATION OF CONVERTERS WITH TOP OXYGEN BLAST USING MAGNESIAL SLAGS 67-02 M04-61865
PRODUCING STEEL IN 100-TON OXYGEN CONVERTERS 67-02 M04-61954
BLOWING OPENHEARTH FURNACE BATHS WITH LOW-CONCENTRATION OXYGEN 67-02 M04-61955
LADLE ADDITIONS OF ALLOYS 67-03 M04-65008
OXYGEN ATOMIZES MOLTEN IRON IN SPRAY STEELMAKING PROCESS 67-03 M04-65485
OPERATION OF THE KALDO ON THE NORTH AMERICAN CONTINENT 67-03 M04-65516
REVIEW OF OPERATIONS TO DATE, COLORADO FUEL AND IRON CORPORATION, PUEBLO, COLORADO, JONES AND LAUGHLIN STEEL CORPORATION, CLEVELAND, OHIO 67-03 M04-65519
PRODUCTION OF STEEL BY THE BESSEMER PROCESS 67-03 M04-65543
AN OXYGEN BALANCE FOR CARBON LEVEL CONTROL AT NEWCASTLE AND WHYALLA PLANTS 67-04 M04-66114
EVOLVING A NEW TECHNOLOGY FOR STEELMAKING IN OPENHEARTHS 67-04 M04-66849
OXYGEN-LANCED CONVERTERS RUN WITH MAGNESIUM SLAGS 67-04 M04-67684
MELTING STEEL IN 100 TON OXYGEN-BLOWN CONVERTERS

67-04 M04-67772
LANCING OPEN-HEARTH FURNACE BATHS WITH LOW CONCENTRATION OXYGEN 67-04 M04-67773
MAKING LOW-CARBON STEEL BY BLOWING THE BATH WITH AN OXYGEN-HYDROGEN MIXTURE IN A LARGE OPENHEARTH FURNACE 67-04 M04-67871
EFFECT OF SCRAP QUALITY AND CHARGING CONDITIONS ON THE PERFORMANCE AND COSTS OF AN OPENHEARTH FURNACE 67-04 M04-68006
MELTING PRACTICE FOR HIGH CARBON STEEL MADE BY THE BASIC OXYGEN LD PROCESS 67-05 M04-68729
EFFECT OF RARE-EARTH ELEMENTS ON THE PROPERTIES OF MEDIUM-CARBON STEEL 67-06 M04-70181
EFFECT OF RESIDUALS IN STEEL FOR WIRE 67-06 M04-72023
EFFECT OF FLUXES USED AS COOLANTS ON BLOWING TIME AND METAL YIELDS. PT. 2. STUDY OF IRON CONTENT OF SLAG IN LOW-CARBON STEEL MADE BY THE BASIC OXYGEN LD PROCESS 67-06 M04-72215
OUTLINE OF THE BASIC OXYGEN LD-AC PLANT AND OPERATING RESULTS AT KAWASAKI, JAPAN, WORKS. PT. 1. --ON THE LD-AC PROCESS AT NIHON STEEL TUBE KAWASAKI WORKS-- 67-07 M04-72441
ON THE ELECTRIC ARC FURNACE, WITH SPECIAL REFERENCE TO LARGE CAPACITY UNITS FOR STEEL PRODUCTION 67-07 M04-72547
PRODUCTION OF STEEL BY THE BASIC OXYGEN LD PROCESS IN LARGE FURNACES 67-07 M04-72559
INFLUENCE OF DEOXIDATION PRACTICE IN BASIC ELECTRIC ARC STEELMAKING ON THE CLEANNESS AND MECHANICAL PROPERTIES OF 0.20-0.25 PER CENT CARBON CAST STEELS 67-07 M04-72754
HIGH CARBON STEEL PRODUCTION ON THE BOF 67-07 M04-73097
BEHAVIOR OF NITROGEN DURING MELTING OF CHARGE IN AN ARC ELECTRIC FURNACE PRODUCING LOW-CARBON STEEL 67-08 M04-74578
OPERATIONAL ASPECTS OF CONTROL OF COMPOSITION IN STEELMAKING IN AUSTRALIAN STEEL PLANTS 67-09 M04-76421

CARBON STEELS, STORAGE TANKS
BRITTLE CRACKS IN AN OIL TANK 67-02 M17-61060

CARBON STEELS, STRIP
COPPER COATING OF STEEL STRIP FOR COMPONENTS 67-04 M12-67932
VARIATION OF YIELD STRESS WITH STRAIN AND STRAIN RATE IN MILD STEEL 67-11 M17-81022

CARBON STEELS, STRUCTURAL MEMBERS
THE INTERCONNECTION BETWEEN TYPES OF SECTION AND STEEL STRENGTH 67-07 M17-73423

CARBON STEELS, SURFACE FINISHING
FUNDAMENTAL STUDIES ON LAPPING 67-01 M08-57216
USE OF ELECTROMACHINING OPERATIONS IN INDUSTRIAL PRODUCTION. PT. 2. APPLICATIONS 67-01 M08-58718
NEW PUSH FOR HCL IN PICKLING 67-01 M12-57949
PICKLING ACIDS AND INHIBITORS 67-02 M12-59004
HOT METAL SCARFING MACHINE INCORPORATED IN PRODUCTION LINE OF BLOOMING MILL 67-04 M07-66213
IMPROVING THE PRODUCTIVITY OF METAL FLAME SCARFING 67-04 M08-66619
ELECTROLYTIC POLISHING OF CARBON STEEL TUBES 67-08 M12-75017
CHEMICAL-ENERGY DEBURRING AS APPLIED TO FUNCTIONAL COMPONENTS 67-10 M12-79190
THE SIGNIFICANCE OF SURFACE PROPORTIONAL BEARING CURVES IN THE CHARACTERIZATION OF MACHINED AND DEFORMED SURFACES 67-12 M12-82942

CARBON STEELS, SURFACE HARDENING
SUPERFICIAL HARDENING WITH BLOW-PIPES 67-08 M10-74747
STEEL COMPOSITION REQUIREMENTS OF THE AUTOMOBILE INDUSTRY 67-09 M10-76417
STUDIES ON BORONIZATION OF STEEL SURFACES BY B4C-NAOCN 67-09 M10-78000

CARBON STEELS, SURFACE PROPERTIES
CAVITATION ATTACK IN BUILT-UP METAL 67-01 M17-58205
SURFACE ROUGHNESS AS A FUNCTION OF CUTTING CONDITIONS IN THE TURNING OF STEEL 67-02 M08-60987
MECHANISM OF GRAPHITE FORMATION ON SURFACE OF HYPEREUTECTOID STEEL 67-02 M10-60069
INTERFACIAL TENSION OF LIQUID STEEL ON THE BOUNDARY WITH WHITE SLAG IN ELECTROMELTING 67-04 M04-66080
PROPERTIES OF COMBINATION COATINGS AT HIGH TEMPERATURES 67-08 M12-74590

CARBON STEELS, TENSION TESTS
INVESTIGATION OF STEEL UNDER CONDITIONS OF BIAXIAL TENSION AT ROOM AND LOW TEMPERATURES 67-03 M17-65103

CARBON STEELS, TEXTURE
CHANGES IN TEXTURE OF HOT ROLLED STRIP OF LOW-CARBON STEEL 67-04 M14-67513

CARBON STEELS, THERMAL PROPERTIES
THE DETERMINATION OF TEMPERATURE DISTRIBUTION DURING FLAME CUTTING 67-02 M19-60510
NATURE OF THE CHANGE IN COOLING RATES IN DIFFERENT POINTS IN THE CROSS-SECTION OF BILLETS 67-04 M14-66701
METALS WORKABLE AT HIGH TEMPERATURES AND UNDER STRONG PRESSURE--THEIR CHARACTERISTICS, USE AND APPLICATION TO PETROLEUM CHEMISTRY 67-04 M15-67295
THE THERMAL RESISTANCE OF STEELS AND PRACTICAL PROBLEMS OF HEATING AND COOLING THEM 67-05 M15-69442
THE ELECTROTHERMAL TREATMENT OF STEELS IN MAGNETIC FIELDS 67-06 M17-71127
THERMOPHYSICAL CONSTANTS OF POROUS POWDER METALLURGY MATERIALS 67-10 M15-79344

CARBON STEELS, THERMAL STABILITY
HEAT RESISTANCE OF MACHINE PARTS OF METALLURGICAL EQUIPMENT 67-05 M17-68370

CARBON STEELS, TRANSPORT PROPERTIES
TRANSPORT OF CARBON IN SOLID SOLUTIONS WITH IRON GROUP METALS BASE 67-06 M15-72372

CARBON STEELS, TUBEMAKING
MAKING STEEL PIPE BY STRETCH REDUCTION 67-03 M08-65984
INCLUSIONS IN CONTINUOUSLY CAST CARBON STEELS 67-07 M04-73081
RESIDUALS IN STEEL FOR TUBES 67-07 M07-73078
MATERIAL FLOW IN THE HOLLOW DRAWING OF TUBES 67-10 M07-78590

CARBON STEELS, TUBES
MANUFACTURE OF FINNED TUBE FOR HIGH-PRESSURE GAS SYSTEMS 67-11 M07-81525

CARBON STEELS, TUBING /METAL/
MANUFACTURE OF SEAMLESS TUBES IN A MODERN TUBE PUSH BENCH INSTALLATION 67-04 M07-66326
A MECHANIZED METHOD OF EXPANDING TUBES WITH AUTOMATIC QUALITY CONTROL 67-05 M07-69044

CARBON STEELS, WEAR
TESTING BUILT-UP METAL FOR WEAR IN A STREAM OF DUST-FILLED GAS AT HIGH TEMPERATURES 67-04 M17-67092
WEAR RESISTANCE OF NO. 45 STEEL QUENCHED AFTER HEATING IN AN ELECTROLYTE 67-08 M17-76043
ABRASIVE WEAR CAUSED BY GRANULAR MINERAL SOLIDS 67-09 M17-76368
WEAR OF METALS IN SUCROSE SOLUTIONS 67-09 M17-76438
FRICTION IN VACUUM CONDITIONS 67-09 M17-76439
TESTING OF DEPOSITED METAL FOR WEAR IN A HIGH-TEMPERATURE GAS FLOW CONTAINING DUST 67-09 M17-78072

CARBON STEELS, WELDED JOINTS
THE LOAD TESTING OF DOUBLE STRAP JOINTS MADE FROM GRADE ST 37 STEEL HAVING FLANK AND FRONTAL FILLET WELDS 67-02 M17-59145
ON THE PROBLEM OF THE VALUE OF IMPACT STRENGTH TESTING OF WELDS 67-05 M17-68744
AN APPROXIMATE ESTIMATION OF THE STRENGTH INDICES OF THE HEAT AFFECTED ZONE METAL IN THE WELDING OF CARBON AND LOW ALLOY STEELS 67-12 M15-82240

CARBON STEELS, WELDING
MAKING THE MOST OF HEAT TREATING EQUIPMENT 67-01 M10-58013
WELDING IN THE CONSTRUCTION OF PRESSURE VESSELS FOR REACTORS. PT. 1. VESSELS FOR INDUSTRIAL NUCLEAR REACTORS 67-01 M11-57146
CONSUMABLE GUIDE WELDING RESEARCH AT BWRA 67-01 M11-57215
INFLUENCE OF OPERATING PARAMETERS ON POWER AND HEATING OF CORES IN FRICTION WELDING 67-01 M11-57370
PROPANE-BUTANE-OXYGEN FLAME IN WELDING CARBON STEELS 67-01 M11-57372
FRICTION WELDING OF DRILLING RODS 67-01 M11-57377
EFFECT OF INITIAL TEMPERATURE OF BASE METAL ON WELD JOINT PROPERTIES 67-01 M11-57388
TIME-TEMPERATURE DEFORMATIONS DURING ELECTROSLAG WELDING 67-01 M11-57390
MAGNETIC INTERACTION OF ARCS DURING TWIN-ARC THREE-

PHASE WELDING 67-01 M11-57393
ARC PRESSURE IN PLUG WELDING WITH DEEP FUSION 67-01 M11-57526
IMPROVING THE EFFICIENCY OF PLUG WELDING 67-01 M11-57530
CHARACTERISTICS OF CO2 AUTOMATIC WELDING WITH SPLIT ELECTRODE 67-01 M11-57532
ELECTRIC RIVET WELDING THIN-WALLED PANELS TO BENT SHAPES 67-01 M11-57537
STUDY OF THE EFFECTIVENESS OF A PROPANE-BUTANE-ACETYLENE MIXTURE FOR TORCHING METALS 67-01 M11-58050
ASSEMBLY AND WELDING SEQUENCE FOR A 68,000 TON TANKER RUDDER 67-01 M11-58144
TEMPORARY STRUCTURAL DEFORMATIONS IN ELECTROSLAG WELDING 67-01 M11-58207
WELDING TURNING BUTTS OF THICK-WALLED PIPES WITHOUT BACKING RINGS 67-01 M11-58210
SPOT AND ROLL WELDING OF LOW-CARBON PROTECTIVE-COATED STEELS 67-01 M11-58214
AUTOMATIC SUBMERGED ARC WELDING OF COPPER TO STEEL OF LARGE THICKNESSES 67-01 M11-58216
DIFFUSION WELDING OF TITANIUM WITH STEEL THROUGH AN INTERLAYER OF VANADIUM 67-01 M11-58217
USING A COMPUTER FOR STUDYING STRESSED AND STRAINED STATE WHEN WELDING STRUCTURES FROM NARROW PLATES 67-01 M11-58271
A FLUX CUSHION FOR AUTOMATIC WELDING OF CONNECTING PIPES FOR VESSELS 67-01 M11-58279
WELD-QUALITY MONITOR FOR RESISTANCE WELDING 67-01 M11-58351
BRITISH DEVELOPMENTS IN THE USE OF STEEL TO B.S. 968..1962 IN WELDED CONSTRUCTION 67-01 M11-58524
THE NARROW-GAP MIG WELDING PROCESS FOR THICK STEEL PLATES 67-01 M11-58699
ON THE ESCAPE OF DISSOLVED HYDROGEN FROM WELD METAL 67-01 M11-58778
GALVANIZED STEELS FOR FABRICATED METAL PRODUCTS. PT. 2. FORMING, WELDING, SOLDERING AND PAINTING 67-01 M11-58794
VIBRATION WELD-SURFACING 67-01 M12-57203
AUTOMATIC DEPOSIT WELDING OF STAINLESS STEELS ONTO PEARLITIC STEELS USING A PLASMA JET 67-01 M12-57396
SOME PARAMETERS OF CONTACT DEPOSIT ELECTROWELDING 67-01 M12-57397
WELDS AND CRACKS 67-01 M17-57220
STRENGTH OF WELDED MULTILAYER HIGH-PRESSURE VESSELS 67-01 M17-58208
QUALITY CONTROL PROCEDURES FOR WELDED FEED HEATERS 67-01 M19-57976
CONTRIBUTION TO THE CO2 WELDING OF PLATES HAVING A PRODUCTION COATING OF PAINT 67-02 M11-59039
THE MASH-LAP WELDING PROCESS 67-02 M11-59486
PLUG WELDING IN CO2 67-02 M11-59526
CERTAIN SPECIAL FEATURES OF THE WELDING OF MILD AND LOW-ALLOY STRUCTURAL STEELS AT LOW TEMPERATURES 67-02 M11-59791
ARC WELDING HIGH-SPEED STEEL TIPS TO CUTTING TOOL SHANKS 67-02 M11-59795
WELDING OF COPPER AND COPPER ALLOYS IN THE CONSTRUCTION OF VESSELS AND OTHER EQUIPMENT 67-02 M11-59830
WELDABILITY OF HEAT TREATED ST.3PS STEEL 67-02 M11-60002
DIFFUSION WELDING IN CARBON DIOXIDE AND NITROGEN ATMOSPHERES 67-02 M11-60005
CO2 SHIELDED PLUG WELDING OF 45 STEEL 67-02 M11-60008
CAPACITOR DISCHARGE MACHINES FOR SPOT-WELDING OF LIGHT ALLOYS 67-02 M11-60018
THE ASSESSMENT OF WELDING DEFECTS BY FATIGUE TESTS 67-02 M11-60105
FLASH-BUTT WELDING FOR RAILS OF NEW TOKAIDO TRUNK LINE 67-02 M11-60168
DISTRIBUTION OF CHEMICAL ELEMENTS IN THE WELD ZONE DURING BUTT WELDING 67-02 M11-60199
RESISTANCE WELDING OF STEEL TUBES. PT. 2 67-02 M11-60250
STATIC AND DYNAMIC CHARACTERISTICS OF THE ARC IN DEEP FUSION WELDING 67-02 M11-60831
IMPROVING THE PRODUCTIVITY OF CO2 WELDING 67-02 M11-60834
SHOCK WAVE SQUEEZES WELD METAL 67-02 M11-61005
WELDING IN THE CONSTRUCTION OF HIGH-PRESSURE VESSELS FOR REACTORS. PT. 2. STEELS FOR REACTOR BOILERS 67-02 M11-61056
ARC PRESSURE IN DEEP PENETRATION PLUG WELDING 67-02 M11-61145
IMPROVING THE ECONOMY OF ARC SPOT WELDING 67-02 M11-61149
CHARACTERISTICS OF AUTOMATIC TWIN ARC CO2 WELDING 67-02 M11-61151
ARC SPOT WELDING OF THIN SHEATHING TO BENT SECTIONS 67-02 M11-61156
PLUG WELDING WITH COMPRESSED ARC 67-02 M11-61251
STRENGTH OF WELDED CRUCIFORM JOINTS OF ST. 3 STEEL DURING ARC WELDING 67-02 M11-61261
WELDING ST. 3 STEEL TO KH18N10T STEEL WITH UONI-13/45 ELECTRODES 67-02 M11-61266
NARROW WELDED JOINTS 67-02 M11-61539
APPLICATION OF T-1 STEEL IN PRESSURE PIPING 67-02 M11-61577
CALCULATING THE THERMAL CYCLE IN ELECTROSLAG WELDING 67-02 M11-62160
RESISTANCE BUTT WELDING OF 80S STEEL REINFORCED RODS 67-02 M11-62161
THE FORTUITOUS STRENGTH OF WELDED JOINTS 67-02 M17-59146
PREVENTION OF CRYSTALLIZATION CRACKS IN PLUG WELDS WELDED WITH DEEP FUSION 67-02 M17-61246
INFLUENCE OF IRON POWDER IN THE ELECTRODE COATING ON GRAIN SIZE AND DUCTILITY OF WELDED JOINTS 67-02 M17-61247
WELDING OF SPECIAL AND COMMON STEEL PIPE 67-03 M11-65062
AUTOMATIC WELDING OF THICK SECTIONS 67-03 M11-65063
SPOTLIGHT ON ARC WELDING, PT. 29. THE BROOK WELDING CO. LTD 67-03 M11-65168
WELDING GALVANIZED TUBES TO CARBON STEEL TUBE SHEET 67-03 M11-65300
REPORT ON THE PRESENT SCOPE OF NONDESTRUCTIVE TESTING OF RESISTANCE SPOT WELDS 67-03 M11-65450
THE SS WELDING PROCESS --IMPROVED SUBMERGED ARC WELDING-- 67-03 M11-65819
METHOD OF SUBMERGED MULTILAYER WELDING 67-04 M11-66103
ACCEPTANCE TESTING OF LOW-CARBON AND LOW-ALLOY STRUCTURAL STEELS FOR WELDABILITY 67-04 M11-66436
LASER WELDING OF SOME METALS 67-04 M11-66460
CONSISTENCY OF PULSED ARC WELDING WITH A CONSUMABLE ELECTRODE 67-04 M11-66464
CO2 SHIELDED ELECTRIC PLUG WELDING 67-04 M11-66475
SITE WELDING ON 20K STEEL PLATE CLAD WITH KH17N13M2T STEEL 67-04 M11-66477
ARC SPOT WELDED JOINTS MADE WITH A HIGH PERFORMANCE ARC 67-04 M11-66524
A NEW METHOD OF MECHANIZED WELDING OF REINFORCED FITTINGS 67-04 M11-66575
ARC WELDING SEAMS WITH FORCED SHAPING 67-04 M11-66577
METALLURGICAL INFLUENCE OF THE FLUX-CORE WELDING PROCESS BY VARIOUS WELDING FACTORS 67-04 M11-66596
ELECTRON BEAM WELDING OF FINISH-MACHINED PRECISION PARTS WITH CONSIDERATION GIVEN TO DESIGN AND METALLURGICAL INFLUENCE 67-04 M11-66725
EFFECT OF CHEMICAL COMPOSITION OF FILLER WIRE ON THE STRENGTH OF STEEL-ALUMINUM JOINTS 67-04 M11-66804
WELDING TECHNOLOGY USED TO REPAIR PASSENGER AND FREIGHT CARS OF THE GERMAN FEDERAL RAILWAYS 67-04 M11-66914
PROGRAMMING FOR PULSED ARC WELDING OF TUBES 67-04 M11-67006
SOME PROBLEMS IN SPOT WELDING OF STRUCTURAL UNITS 67-04 M11-67009
CONTACT BUILDUP OF THE SURFACES OF ROTATING BODIES 67-04 M11-67011
PLUG WELDING WITH POWDER WIRE 67-04 M11-67012
SEMIAUTOMATIC CO2 WELDING OF SHEET STRUCTURES WITH SPOT CORNER SEAMS 67-04 M11-67013
CONTROL OF PARAMETERS OF RADIO-FREQUENCY WELDING OF TUBES 67-04 M11-67015
CONSUMABLE ELECTRODE GAS SHIELDED WELDING OF STEEL 67-04 M11-67138
CALCULATING THERMAL CYCLES DURING ELECTROSLAG WELDING 67-04 M11-67167
FLASH WELDING OF REINFORCEMENT RODS MADE OF GRADE 80S STEEL 67-04 M11-67168
A COMBINED METHOD OF MAKING BUTT WELDS IN STEEL PIPING 67-04 M11-67173

THE DEFORMATION OF TRANSVERSE BUTT JOINTS IN STRUCTURES MADE FROM COILED PLATE METAL
67-04 M11-67176
THE STUDY, BY COMPUTER, OF THE STRESSED AND DEFORMED STATES IN STRUCTURES MADE OF WELDED NARROW PLATES 67-04 M11-67352
FLUX CUSHION FOR THE AUTOMATIC WELDING OF BRANCH PIPES TO VESSELS 67-04 M11-67360
WELDING 18 PER CENT NICKEL MARAGING STEEL TO A-201 AND A-242 STEELS 67-04 M11-67627
VARIABLE STRESS CYCLE FATIGUE OF LARGE BUTT-WELDED SPECIMENS 67-04 M11-67631
CHANGE IN HYDROGEN CONTENT OF WELD METAL IN RELATION TO SEASON AND DIAMETER OF ELECTRODES
67-04 M11-67804
CHOOSING THE CONTROLLED ATMOSPHERE AND CALCULATING OPTIMUM SHIELDING CONDITIONS IN WELDING
67-04 M11-67808
PREPARING THE METAL SURFACE FOR SEMIAUTOMATIC SUBMERGED ARC WELDING OF FILLET WELDS
67-04 M11-67812
SEMIAUTOMATIC WELDING OF LOCOMOTIVE FORGINGS USING A SELF-SHIELDING WIRE 67-04 M11-67813
CO2 WELDING OF A TRACTOR FRAME 67-04 M11-67814
INDUCTION BUILDUP OF DISKS OF A BEET-HARVESTING COMBINE 67-04 M11-67815
THERMOCRUCIBLE WELDING CONNECTIONS TO EARTHING DEVICES 67-04 M11-67937
STATIC AND DYNAMIC CHARACTERISTICS OF THE DEEP PENETRATION ARC 67-04 M11-67988
INCREASING THE OUTPUT RATE OF CO2 SHIELDED ARC WELDING 67-04 M11-67991
MEASUREMENT OF ELECTRODE MOVEMENT AS MEANS OF SPOT WELD QUALITY CONTROL 67-04 M11-68043
BUILDUP WITH A MELTED FILLER METAL
67-04 M12-66572
WEAR-RESISTANT BUILDUP OF PIECES OF BUCKET EXCAVATOR CHAINS 67-04 M12-66813
EFFECT OF COMPLEX FERROALLOYS IN THE COATINGS OF ELECTRODES ON THE PROPERTIES OF BUILTUP METAL
67-04 M12-66814
FATIGUE STRENGTH OF WELDED JOINTS FOR PIPE CONNECTORS 67-04 M17-66462
THE PREVENTION OF HOT CRACKING WHEN DEEP PENETRATION ARC SPOT WELDS ARE MADE
67-04 M17-66518
THE EFFECTS OF IRON POWDER IN ELECTRODE COATINGS ON WELDED JOINTS 67-04 M17-66519
STRENGTH OF ARC WELDED CRUCIFORM JOINTS IN STEEL ST. 3 67-05 M11-68261
WELDING STEEL ST. 3 TO STEEL KH18N10T WITH UONI-13/45 ELECTRODES 67-05 M11-68266
NEW SOLID-STATE WELDING PROCESS
67-05 M11-68478
IMPROVING THE TECHNOLOGY OF WELDING AND REDUCING THIN-WALLED GAS PIPES ON CONTINUOUS FURNACE BUTT WELDING MILLS 67-05 M11-68552
U. S. STEEL OFFICIALLY OPENS NEW ERW MILL AT LORAIN WORKS 67-05 M11-68697
VARIETY AND COMPLEXITY OF CONTROLS INVOLVED IN FABRICATION OF HEAVY-WALL WELDED CONSTRUCTIONS
67-05 M11-69328
FRICTION WELDING OF MOTOR DISTRIBUTOR CAMS
67-05 M11-69413
SPOTLIGHT ON ARC WELDING. PT. 30. F. ATKINSON --NOTTINGHAM--LTD 67-05 M11-69430
ADVANTAGES OF PLASMA ARC WELDING
67-05 M11-69557
PRESS WELDING UNIFORMLY HEATED LARGE SIZE STEEL BILLETS 67-05 M17-69409
U. S. STEELS ERW PIPE MILL AT LORAIN IS IN PRODUCTION 67-05 M20-69489
POSSIBILITIES FOR FRICTION WELDING DURING REPAIR OF AGRICULTURAL MACHINERY 67-06 M11-70159
VARIATIONS IN WELD METAL HYDROGEN CONTENTS
67-06 M11-70304
SELECTION OF CONTROLLED ATMOSPHERES AND THE CALCULATION OF OPTIMUM SHIELDING CONDITIONS FOR WELDING 67-06 M11-70308
SURFACE PREPARATION OF METAL FOR THE SEMI-AUTOMATIC SUBMERGED ARC WELDING OF CORNER JOINTS
67-06 M11-70312
SEMI-AUTOMATIC WELDING OF STRUCTURES FOR DIESEL LOCOMOTIVES WITH SELF SHIELDING ELECTRODES
67-06 M11-70313
CO2 WELDING OF A TRACTOR CHASSIS
67-06 M11-70314
INDUCTION HARDFACING OF DISCS OF BEET COMBINE HARVESTERS 67-06 M11-70315
AUTOMATIC VIBROARC BUILD-UP OF LAYERS OF VARIOUS THICKNESS 67-06 M11-70391
CONTACT WELDING OF PINS TO BOILER PIPES
67-06 M11-70393
EXPERIENCES IN CONSTRUCTION AND OPERATION OF THE ICI TUBULAR REFORMER AT THE EFFINGHAM STREET WORKS OF THE EAST MIDLANDS GAS BOARD
67-06 M11-70541
SUBMERGED-ARC KEEPS IN STEP WITH QUALITY, MECHANIZATION 67-06 M11-71571
WELDING KEEPS APOLLO ON SCHEDULE
67-06 M11-71573
AVOID CONFUSION OF ELECTRODES 67-06 M11-71577
INFLUENCE OF HEAT TREATMENT ON STRUCTURE AND BRITTLEMENTS OF FUSION ZONE OF PEARLITIC AND MARTENSITIC STEELS 67-06 M11-71644
GAS WELDING OF LOW-CARBON STEEL USING NATURAL GAS
67-06 M11-71647
FLUX CORE WIRE FOR OPEN ARC WELDING OF LOW-CARBON AND LOW-ALLOY STEELS 67-06 M11-71649
CHARACTERISTICS OF UNDERWATER WELDING USING THIN WELDING WIRE 67-06 M11-71652
MECHANIZED VERTICAL WELDING UTILIZING THE GAS METAL-ARC PROCESS 67-06 M11-71679
THE BWRA QUALITY MONITOR AND SPOT-WELDING GALVANIZED STEEL SHEET--AN EVALUATION
67-06 M11-71684
PROCESSES OCCURRING DURING THE PULSATION WELDING OF STEEL 67-06 M11-71718
CHARACTERISTICS OF WELDING OF STRUCTURAL STEEL REFINED IN A LADLE WITH SYNTHETIC SLAG
67-06 M11-71840
CALCULATION OF THE WEIGHT OF WELDING POOL DURING FUSION WELDING 67-06 M11-71841
INFLUENCE OF THE INITIAL TEMPERATURE OF BASE METAL ON PROPERTIES OF WELDED JOINTS
67-06 M11-71842
PREDOMINANT CASES AND REASONS OF BRITTLE FAILURE
67-06 M11-71846
FATIGUE STRENGTH OF FRICTION WELDED JOINTS
67-06 M11-71847
USE OF EP-389 WIRE FOR AUTOMATIC WELDING OF CLAD STEELS USED FOR CHEMICAL AND OIL REFINING APPARATUS 67-06 M11-71851
AUTOMATIC WELDING WITH ADDITION OF IRON PELLETS
67-06 M11-71853
MECHANIZED HARD SURFACING OF THE IMPELLERS OF A SUCTION DREDGE 67-06 M11-72311
WELDING OF HIGH-PRESSURE PIPELINES WITHOUT INSERT RINGS 67-06 M11-72314
DIFFUSION BONDING OF TITANIUM TO STEEL
67-06 M12-71727
HEAT CONTENT OF ELECTRODE METAL DROPLETS DURING SHIELDED ARC WELDING 67-06 M15-71843
EFFECTS OF THERMAL STRAINING DURING WELDING ON THE FRACTURE TOUGHNESS OF A MILD STEEL
67-06 M17-70860
INFLUENCE OF RESIDUAL STRESSES ON FATIGUE STRENGTH OF RECLAIMED CRANKSHAFTS
67-06 M17-71651
PREDICTION OF PHYSICAL PROPERTIES IN ARC WELDING
67-06 M17-71687
NEW TUBE TESTING EQUIPMENT 67-06 M19-71820
IMPROVING THE METHOD OF WELDING AND REDUCING THIN-WALLED GAS AND WATER PIPES ON BENCHES FOR CONTINUOUS FURNACE BUTT WELDING
67-07 M11-72463
WELDABILITY TESTS FOR MILD AND LOW ALLOY STRUCTURAL STEELS 67-07 M11-72695
THE MECHANISM OF HOT CRACKING DURING WELDING
67-07 M11-72730
SPECIFIC HEAT ENERGY OF ARC IN SOME WELDING PROCESSES WITH CONSUMABLE ELECTRODES
67-07 M11-72732
CHARACTERISTICS OF BRITTLE FAILURES IN WELDED ROLLING STOCK AND PREVENTIVE MEASURES
67-07 M11-72736
MULTIELECTRODE PLUG WELDING 67-07 M11-72737
GUIDE TO MIG WELDING PROCESSES 67-07 M11-73304
WELD SURFACE DEFECTS--STRIKES, PITS AND SPATTER
67-07 M11-73306
A NEW MECHANISED METHOD OF WELDING REINFORCEMENT
67-07 M11-73432
VERTICAL ARC WELDS MADE WITH CONSTRAINING MOULDS
67-07 M11-73434
WELDING METHODS TO PRODUCE TUBES AND SHAPES. PT. 1
67-07 M11-73710
SEMI-AUTOMATIC CO2 WELDING OF PIPELINES
67-07 M11-73888

EXPLOSIVE WELDING TODAY 67-07 M11-74259
SOME FUNDAMENTAL PROBLEMS IN ULTRASONIC WELDING OF DISSIMILAR METALS 67-07 M11-74280
BUILDING UP BY POURING MOLTEN FILLER METAL ONTO THE WORK 67-07 M12-73429
THERMOMECHANICAL TREATMENT OF METAL DURING VIBRO ARC DEPOSIT WELDING 67-08 M11-74371
SPOT WELDING OF NONDESCALED HOT ROLLED SHEET STEEL 67-08 M11-74375
USE OF NATURAL GAS FOR WELDING OF CARBON STEELS 67-08 M11-74379
HARD SURFACING OF SHIP SCREW PROPELLERS WITH STAINLESS STEEL 67-08 M11-74380
SPOT WELDING OF ARMATURE RODS TO SHEET 67-08 M11-74381
PROGRAMMING THE CONDITIONS FOR PULSATING ARC WELDS ON PIPES 67-08 M11-74765
SOME ASPECTS OF SPOT WELDING IN STRUCTURAL ENGINEERING 67-08 M11-74768
WELDING SLIP-IN AND EDGE JOINTS 67-08 M11-74769
RESISTANCE HARDFACING ON AXIALLY SYMMETRICAL COMPONENTS 67-08 M11-74770
ARC SPOT WELDING WITH A CORED ELECTRODE 67-08 M11-74771
SEMI-AUTOMATIC CO2 WELDING WITH FILLET SPOT WELDS IN SHEET METAL STRUCTURES 67-08 M11-74772
MONITORING THE PARAMETERS IN RADIO FREQUENCY WELDING OF TUBES 67-08 M11-74774
FRICTION WELDING. PT. 10. WELDING OF SMALL ROUND BARS 67-08 M11-75304
THE CONVERSION OF EXISTING TUBE WELDING INSTALLATIONS TO HIGH-FREQUENCY INDUCTION WELDING 67-08 M11-75672
AN EQUATION FOR CALCULATING OPTIMUM WELDING CONDITION IN ELECTRON BEAM WELDING. PT. 7. STUDIES ON ELECTRON BEAM WELDING 67-08 M11-75758
EFFECTS OF THE CHEMICAL COMPOSITIONS OF FILLER WIRES ON THE STRENGTH OF JOINTS BETWEEN STEEL AND ALUMINIUM 67-08 M11-75908
BUILDING UP EXCAVATOR BUCKET LINE COMPONENTS WITH WEAR-RESISTANT METAL 67-08 M12-75917
THE EFFECTS OF COMPLEX FERROALLOYS IN ELECTRODE COATINGS ON THE DEPOSITED METAL 67-08 M12-75918
THE INFLUENCE OF PHYSICAL PROPERTIES ON PENETRATION IN ARC WELDING 67-09 M11-76462
WELDING THE MARAGING STEELS 67-09 M11-76638
THERMAL AND MECHANICAL CHARACTERISTICS OF FRICTION WELDING MILD STEEL 67-09 M11-76654
MIG AND TIG, BIG AT WORTHINGTON 67-09 M11-76656
NITROGEN IN WELDING PROCESSES OF STEEL 67-09 M11-76897
ELECTROSLAG WELDING IN THE MANUFACTURE OF CRANKSHAFTS 67-09 M11-76900
CHARACTERISTIC OF THE POWER SOURCE IN AUTOMATIC WELDING OF ALUMINIUM THROUGH FLUX 67-09 M11-77235
ENCLOSED ARC PROCESS APPLIED TO THE WELDING OF NEW TOKAIDO LINE 67-09 M11-77335
THE INFLUENCE OF TITANIUM ON THE ELECTROSLAG WELDING OF STEEL 67-09 M11-77341
STUDY OF THE WELDING PROPERTIES OF SV-08G2S WIRE OF CONVERTER PRODUCTION 67-09 M11-77609
PRODUCING TUBES ON INDUCTION WELDING MILLS WITH REDUCTION 67-09 M11-77635
WHATS SO TOUGH ABOUT CRYOGENIC COLD 67-09 M11-77915
AUTOMATIC VIBRO-ARC SURFACING IN DIFFERENT THICKNESSES 67-09 M11-78091
THE RESISTANCE WELDING OF STUDS TO BOILER TUBES 67-09 M11-78093
MECHANIZED HARDFACING OF SEALING FACES 67-09 M11-78100
INFLUENCE OF THE INITIAL TEMPERATURE OF BASE METAL ON THE PROPERTIES OF WELDED JOINT 67-09 M11-78114
STEEL JOINTS PRODUCED BY PRESSURE WELDING 67-09 M11-78118
SOME REASONS FOR DEFECTS IN RESISTANCE WELDED RAILS 67-09 M11-78120
WELDABILITY OF HIGH CARBON STEEL USING THE GAS METAL-ARC PROCESS 67-09 M11-78149
FURTHER TECHNIQUES FOR IMPROVING THE FATIGUE STRENGTH OF WELDED JOINTS 67-09 M17-76652
SOME FATIGUE TESTS ON FILLET WELDED MILD AND HIGH TENSILE STEEL SPECIMENS IN THE AS-WELDED AND NORMALIZED CONDITIONS 67-09 M17-76653
MECHANICAL PROPERTIES OF COMBINATION WELDED JOINTS IN THE REPAIR OF AUTOMOBILE COMPONENTS 67-09 M17-77613
STRENGTHENING VENTILATOR BLADES BY DEPOSIT WELDING WITH INDUCTION HEATING 67-10 M11-78413
MANUFACTURING CUTTING TOOLS BY DEPOSIT WELDING 67-10 M11-78414
THE FRICTION WELDING OF PUSH RODS FOR SMD ENGINES 67-10 M11-78517
AUTOMATED WELDING SETUP SPEEDS BOMB PRODUCTION 67-10 M11-78602
WELDING HELPS MAKE PIPERS PAWNEE ONE OF THE SAFEST PLANES 67-10 M11-78661
WELDING IN THE BRITISH MOTOR INDUSTRY 67-10 M11-78794
WELDING IN THE MANUFACTURE OF ROLLING STOCK ON BRITISH RAILWAYS 67-10 M11-78795
HELICALLY AND LONGITUDINALLY FINNED TUBING BY HIGH-FREQUENCY RESISTANCE WELDING 67-10 M11-79195
SPOT AND SEAM WELDING OF GALVANIZED STEEL 67-10 M11-79398
INFLUENCE OF HEAT TREATMENT ON THE STRUCTURE AND TENDENCY TO EMBRITTLEMENT OF THE FUSION ZONE IN PEARLITIC AND MARTENSITIC STEELS 67-10 M11-79611
WELDING MILD STEEL WITH TOWNS GAS 67-10 M11-79614
POWDER FILLED WIRE FOR THE UNSHIELDED ARC WELDING OF MILD AND LOW ALLOY STEELS 67-10 M11-79616
FEATURES OF THE UNDERWATER THIN WIRE WELDING PROCESS 67-10 M11-79620
THE FORGE WELDING OF LARGE CROSS SECTION STEEL BLANKS 67-10 M17-78513
INFLUENCE OF RESIDUAL STRESSES ON THE FATIGUE STRENGTH OF CRANKSHAFTS AFTER REPAIR 67-10 M17-79619
WELDING REINFORCING STEELS WITH AN ALLOYED WIRE WITHOUT SHIELDING 67-11 M11-80548
CHOOSING BUILT-UP METAL WHICH IS RESISTANT TO SHOCK-LOADING 67-11 M11-80553
CARBON DIOXIDE WELDING WITH DOPED ELECTRODE ON STRAIGHT POLARITY 67-11 M11-80554
USING THE VORTEX EFFECT IN GAS-ELECTRIC WELDING 67-11 M11-80558
WELDING BOGIE AND AXLE BOX SHOES OF LOCOMOTIVES IN 60G STEEL 67-11 M11-80560
EFFECT OF THE INITIAL TEMPERATURE OF THE BASE METAL ON PROPERTIES OF THE WELDED JOINT 67-11 M11-80636
USING AN OPTIMIZER TO SELECT A FLASHING-OFF RATE PROGRAM IN CONTACT BUTT WELDING 67-11 M11-80640
ELECTROMODELING OF THERMAL PROCESSES IN RESISTANCE SPOT WELDING 67-11 M11-80641
THE ABRASIVE WEAR RESISTANCE OF HIGH-CARBON CHROMIUM-MOLYBDENUM BUILT-UP METAL 67-11 M11-80643
USE OF PRELIMINARY HEATING IN THE CONSTRUCTION OF CONVERTER HOUSINGS 67-11 M11-80647
THE TECHNOLOGICAL EFFECTIVENESS AND VIBRATION STRENGTH OF WELDED JOINTS IN A DIESEL LOCOMOTIVE BLOCK 67-11 M11-80649
WELDING OF PRESERVED ROLLED STEEL 67-11 M11-80871
WELDING STRUCTURAL STEEL WHICH HAS BEEN REFINED IN THE LADLE WITH MOLTEN SYNTHETIC SLAG 67-11 M11-80872
CALCULATING THE DIMENSIONS AND WEIGHT OF THE WELD POOL DURING WELDING WITH FULL THICKNESS PENETRATION 67-11 M11-80873
EFFECTS OF THE INITIAL TEMPERATURE OF THE PARENT METAL ON THE PROPERTIES OF WELDED JOINTS 67-11 M11-80874
THE FATIGUE STRENGTH OF FRICTION WELDED JOINTS 67-11 M11-80879
THE AUTOMATIC WELDING OF CLAD STEELS USING EP-389 ELECTRODE WIRE 67-11 M11-80883
AUTOMATIC WELDING WITH IRON PELLETS ADDED 67-11 M11-80885
PRODUCTION OF TUBES IN MILLS WITH INDUCTION WELDING AND REDUCTION 67-11 M11-80923
FLUX COREDCO2 GAS SHIELDED WELDING WIRE 67-11 M11-81004
FLUX CORED WIRE --NO GAS-- PROCESS FOR STEEL 67-11 M11-81005
LOW CURRENT CO2 GAS SHIELDED WELDING PROCESS 67-11 M11-81007
THE APPLICATION OF AN INTERLAYER BEFORE G13 STEEL

IS DEPOSITED 67-11 M11-81580
BUILDING UP THE ROTORS OF SUCTION DREDGERS WITH WEAR-RESISTANT METAL 67-11 M11-81583
WELDING HIGH PRESSURE PIPING WITHOUT PERMANENT BACKING RINGS 67-11 M11-81586
THE HEAT CONTENTS OF THE DROPLETS OF ELECTRODE METAL IN GAS SHIELDED ARC WELDING 67-11 M15-80875
THE STRESS CONCENTRATION SUSCEPTIBILITY OF LOW CARBON STEEL WELDED JOINTS DURING LOAD CYCLING 67-11 M17-80646
WIDESPREAD CASES OF BRITTLE FRACTURE AND THEIR CAUSES 67-11 M17-80878
STRESS-RELIEF CRACKING IN CARBON AND LOW-ALLOY STEELS 67-11 M17-81003
THE FEASIBILITY OF ULTRASONIC INSPECTION OF CONTACT WELDED JOINTS IN BOILER PIPES 67-11 M19-80559
EFFECT OF NICKEL IN AUSTENITIC WELDS ON THE MIGRATION OF CARBON TO THE WELDED JOINTS OF DISSIMILAR STEELS 67-12 M11-81908
CERTAIN CHARACTERISTICS OF ELECTROSLAG WELDING OF STEEL OF SMALL THICKNESSES 67-12 M11-81918
BETTER WELDS IN GALVANIZED STEEL 67-12 M11-81924
THE ANK-18 CERAMIC FLUX FOR THE MECHANISED DEPOSITION OF WEAR RESISTANT METAL 67-12 M11-82035
SOME EXPERIMENTS ON JOINING ALUMINUM TO MILD STEEL BY TIG WELDING 67-12 M11-82134
WARM WORKING TREATMENT OF THE DEPOSIT DURING VIBRO-ARC HARDFACING 67-12 M11-82244
SPOT WELDING OF HOT-ROLLED SHEET STEEL WITHOUT DESCALING 67-12 M11-82248
USE OF NATURAL GAS FOR WELDING CARBON STEELS 67-12 M11-82252
SURFACING SHIPS PROPELLORS WITH STAINLESS STEEL 67-12 M11-82253
SPOT WELDING REINFORCING RODS TO ROLLED PLATE 67-12 M11-82254
EFFECTIVE HEAT INPUT WHEN WELDING WITH A CONSUMABLE ELECTRODE 67-12 M11-82311
PREVENTING BRITTLE FRACTURES OF WELDED STRUCTURES IN ROLLING STOCK 67-12 M11-82315
MULTI-ELECTRODE ARC SPOT WELDING 67-12 M11-82316
WELDABLE, CAST, EASY-TO-MACHINE CARBON STEELS 67-12 M11-83043
THE WELDING OF PLASTIC-COATED STEEL SHEET 67-12 M11-83072
HIGH FREQUENCY STRIKES AGAIN 67-12 M11-83178
ELECTROSLAG WELDING IN NAVAL CONSTRUCTION. AUTOMATIC VERTICAL WELDING OF SHIP HULL SIDES 67-12 M11-83204
TRANSFORMATIONS AND REACTIONS IN THE HEAT AFFECTED ZONE DURING WELDING AND FLAME CUTTING 67-12 M11-83205
ARC ATMOSPHERE AND NITROGEN CONTENT OF WELD METAL 67-12 M11-83211
REPORTS ON BRITTLE FRACTURES 67-12 M11-83214
AUTOMATIC WELDING ON VERTICAL SURFACES IN THE OPEN AIR 67-12 M11-83279
INVESTIGATION OF SECHERON WELDED RAIL JOINTS 67-12 M11-83283
VERY THIN SPIRAL SEAM TUBES WELDED WITH CURRENT AT RADIO FREQUENCIES 67-12 M11-83431
EFFECT OF SHIELDING GAS COMPOSITION ON THE PROPERTIES OF WELDS 67-12 M11-83508
MECHANISM OF HOT CRACKING DURING WELDING 67-12 M13-82309
THE USE OF IN SITU THERMAL ANALYSIS FOR STUDIES OF TRANSFORMATIONS IN STEELS DURING WELDING 67-12 M14-83497

CARBON STEELS, WIRE
CONDITIONS FOR STABLE DRAWING OF STEEL WIRE AT HIGH RATES 67-05 M08-68335
CONDITIONS FOR STEADY DRAWING OF STEEL WIRE AT HIGH SPEEDS 67-07 M08-72863
THE PROCESSING OF STELMOR WIRE 67-10 M20-78580
SELECTING, FORMING AND WORKING WITH WIRE 67-10 M20-79776
RECENT DEVELOPMENTS AND CURRENT PRACTICE IN THE MANUFACTURE OF HIGH-CARBON STEEL WIRE IN SOUTH AFRICA 67-11 M07-81020

CARBON STEELS, X RAY ANALYSIS
VISUAL X-RAY INSPECTION OF WELDED JOINTS 67-05 M19-69046

CARBON STEELS, YIELD POINT
SUBSEQUENT YIELD SURFACES OF STEEL 67-01 M17-57585

CARBON TOOL STEELS, HEAT TREATMENT
ACTIVATION ENERGY OF AUSTENITE FORMATION IN STEEL 67-06 M10-71126

CARBON TOOL STEELS, HEATING
EFFECT OF THERMOPHYSICAL PROPERTIES OF STEEL ON HEATING TECHNOLOGY 67-06 M10-70299

CARBON TOOL STEELS, MACHINING
INVESTIGATION OF THE POLISHING CAPACITY OF REFRACTORY COMPOUNDS 67-06 M09-71464

CARBON TUBE VACUUM FURNACES
SEE VACUUM FURNACES

CARBONACEOUS ROCKS
SEE ANTHRACITE
LIGNITE

CARBONATE ROCKS
SEE DOLOMITE
LIMESTONE

CARBONATES
SEE ALSO SODIUM CARBONATE

CARBONATES, REACTIONS /CHEMICAL/
RADIOACTIVE ISOTOPE INVESTIGATION OF THE REDUCTION KINETICS OF SOME CHEMICAL COMPOUNDS OF ZN IN TUBULAR FURNACES 67-07 M03-73040
ELECTROCHEMICAL STUDIES IN MOLTEN LI2CO3-NA2CO3 67-07 M14-73454

CARBONATION
METHOD TO CONTROL THE DEGREE OF CARBONATION OF ALUMINATE SOLUTIONS 67-05 M03-69245
PREPARATION OF AMORPHOUS ALUMINUM PRECIPITATES 67-12 M03-83159

CARBONITRIDING
SURFACE ATTACK IN CR-FE ALLOYS 67-02 M10-59017
GETTING THE MOST OUT OF CARBONITRIDING 67-03 M10-65801
LOW-TEMPERATURE CARBONITRIDING OF TOOL STEELS IN AMMONIUM PASSED THROUGH HOT COAL 67-04 M10-66453
HEAT TREATMENT OF METALS. PT. 3 67-04 M10-66685
LOW-TEMPERATURE GAS CYANIDING OF STEELS FOR MOLDS 67-04 M10-67966
HEAT-TREATING 65 MILLION SCREWS PER WEEK 67-04 M10-68055
A NEW STEEL FOR THE EXHAUST VALVES OF INTERNAL COMBUSTION ENGINES 67-04 M17-67696
NITRIDING AND CARBONITRIDING OF STEELS BY MEANS OF AN AMMONIA-LANCED OXYACETYLENE FLAME 67-05 M10-69329
THE ACCELERATING EFFECT OF NITROGEN ON THE DIFFUSION OF CARBON INTO STEEL DURING HIGH-TEMPERATURE CARBONITRIDING 67-06 M10-70366
ATMOSPHERES FOR MODERN HEAT TREATING--USING THEM IN PRODUCTION 67-06 M10-70719
SURFACE TREATMENT OF ENGINEERING COMPONENTS 67-06 M10-71938
HEAT TREATMENTS AND THEIR EFFECTS ON FATIGUE STRENGTH OF PARTS 67-06 M10-72145
EFFECT OF SMALL ADDITIONS OF CHROMIUM AND MOLYBDENUM ON THE BEHAVIOR OF CARBON AND NITROGEN IN CARBONITRIDED CASES ON STEEL 67-06 M11-72299
THE MECHANICAL PROPERTIES OF CARBONITRIDED STEELS. PT. 1. BENDING STRENGTH AND TOUGHNESS OF CARBONITRIDED STEELS WITH HIGH CORE STRENGTHS 67-07 M17-73186
MECHANICAL PROPERTIES OF CARBONITRIDED STEELS. PT. 2. THE FATIGUE STRENGTH OF CARBONITRIDED STEELS--THE RELATIONSHIP BETWEEN RESIDUAL AUSTENITE CONTENT IN CARBONITRIDED LAYERS AND FATIGUE STRENGTH 67-07 M17-74210
INTERNAL OXIDATION DURING CASE HARDENING OF STEELS IN ENDOTHERMIC ATMOSPHERES 67-07 M18-74176
INCREASE OF THE STRENGTH OF TRACTOR GEARS BY CASE HARDENING AND NITROCEMENTATION 67-08 M10-74972
CASE HARDENING PROCESS RESISTS SCUFFING 67-08 M10-75921
LOW-TEMPERATURE NITROCEMENTATION OF HIGH-SPEED CUTTING STEELS 67-08 M10-76044
SURFACE ATTACK IN CARBONITRIDED INGOT IRON AND AISI 8620 STEEL 67-11 M10-80519
CARBONITRIDED STEEL PARTS FIGHT WEAR, TAKE IMPACT 67-11 M10-80526
LOW-TEMPERATURE CYANIDING OF HIGH-SPEED STEELS IN AMMONIA FILTERED THROUGH GLOWING COAL 67-11 M10-80994
THE HEAT TREATMENT OF STEELS 67-12 M10-82926
DEVELOPMENT AND ADOPTION OF A TECHNOLOGY FOR THE

CARBONITRIDING

CARBONITRIDING OF TRACTOR PARTS USING UNTREATED NATURAL GAS AND AMMONIA 67-12 M10-83372
CARBONITRIDING, CONTROLLED ATMOSPHERES
HEAT TREATING-P/M PARTS AND EXTRUSIONS 67-07 M10-73962

CARBONIZATION
SEE CARBONIZING
CARBONIZING
SEE ALSO COKING
THE GYRATORY LADLE, A NEW DESULFURIZING AND CARBURIZING TOOL FOR LIQUID IRON 67-07 M04-73250
CUPOLA OPERATION, CHEMICAL ASPECTS, CARBURIZATION, MELTING LOSSES 67-07 M04-73488
CARBURIZATION OF THE METAL BATH BY BLOWING CARBURIZERS WITH COMPRESSED AIR 67-09 M04-76890
CARBONYL POWDERS, ATOMIC PROPERTIES
THE ABSOLUTE ATOMIC SCATTERING FACTOR OF IRON 67-08 M16-76134
CARBONYL POWDERS, GRINDING /COMMINUTION/
EFFECT OF THE DURATION OF GRINDING ON THE ELECTROMAGNETIC PROPERTIES OF CARBONYL IRON POWDERS 67-02 M02-62103
CARBONYLS
SEE METAL CARBONYLS
CARBOTHERMIC REACTIONS
PRODUCTION OF FERRONIOBIUM 67-02 M04-61958
PRODUCTION OF FERRONIOBIUM 67-04 M04-67776
CARBOTHERMIC REDUCTION OF SILICA 67-04 M14-67558
RECOVERY OF ALUMINUM IS TRICKY STEP. PT. 2 67-06 M03-71315
KINETICS OF SILICA REDUCTION BY CARBON-SATURATED IRON. PT. 2. REDUCTION OF SOLID SILICA BY CARBON IN LIQUID IRON 67-06 M04-70811
AN ECONOMIC AND TECHNICAL EVALUATION OF MAGNESIUM PRODUCTION METHODS. PT. 2. CARBOTHERMIC 67-07 M03-74199
THE CARBOTHERMIC REDUCTION OF METALS FROM THEIR OXIDES 67-08 M03-75146
SOME EXPERIMENTS ON THE PREPARATION AND FABRICATION OF UC AND --UPU--C--THE PREPARATION OF CARBIDES BY CARBOTHERMIC REDUCTION OF OXIDES IN FLOWING ARGON--THE FABRICATION OF CARBIDES BY SKULL ARCMELTING 67-09 M03-76340
CARBOTHERMAL REDUCTION OF SODIUM AND POTASSIUM ALUMINATES AT NORMAL PRESSURE 67-09 M03-77045

CARBOXYLIC ACIDS
SEE FATTY ACIDS
CARBURIZATION
SEE CARBURIZING
CARBURIZING
SEE ALSO GAS CARBURIZING
PACK CARBURIZING
STUDY ON TRANSFORMATION FEATURES OF CARBURIZING CR-MO STEELS 67-01 M14-58309
HIGH-TEMPERATURE CARBURIZATION IN SALT AND GAS 67-02 M10-60501
STUDY OF THE WORKS OF CARBURIZATION AND DECARBURIZATION OF TUNGSTEN RIBBONS BY THE MEASURE OF THEIR CONDUCTIVITY 67-02 M10-60984
PROCESSES MODIFYING THE PROPERTIES OF TOOL SURFACES 67-02 M12-60865
STRUCTURE OF THE DIFFUSION LAYER OF A CARBON-ANTIMONY TREATED STEEL 67-02 M14-60073
INVESTIGATION OF CASE HARDENING OF GEARS 67-02 M17-60843
INFLUENCE OF CARBURIZING AND CHROMIZING ON INTERACTION BETWEEN IRON AND LIQUID ZN 67-02 M18-61992
METHODS OF MONITORING ATMOSPHERES WITH CONTROLLED CARBON POTENTIAL 67-02 M19-60868
POSSIBILITIES OF MEASURING AND REGULATING THE C-POTENTIAL DURING GAS-CARBURIZING AND ITS PRACTICAL SIGNIFICANCE 67-03 M10-65175
CARBURIZING LINE AIDS QUALITY BEARING PRODUCTION 67-03 M10-65628
METALLURGICAL TREATMENT OF HOT METAL BY CONTROLLED BATH MOVEMENT TO FACILITATE THE MIXING EFFECT 67-04 M04-66328
DUCTILE IRON PROCESS SPEEDS DESULFURIZING AND NODULARIZING 67-04 M04-67500
HEAT TREATMENT OF METALS. PT. 3 67-04 M10-66685
INTERNAL FRICTION CHARACTERISTICS OF IRON-VANADIUM-NITROGEN ALLOYS 67-04 M10-67191
ELECTRON DIFFRACTION DETERMINATION OF THE IONIZATION OF THE CARBON ATOM IN BETA-M02C CRYSTAL 67-04 M13-67111
DETERMINATION OF THE DIFFUSION COEFFICIENT OF CARBON IN NICKEL BY THERMOGRAVIMETRIC ANALYSIS 67-04 M14-66339
ATMOSPHERES FOR MODERN HEAT TREATING--USING THEM IN PRODUCTION 67-06 M10-70719
CARBURIZATION OF NIOBIUM- AND TANTALUM-BASE ALLOYS 67-06 M10-70797
GAS CARBURIZING BY INSTILLATION OF ORGANIC LIQUIDS RECENT EXPERIMENTS 67-06 M10-71906
SURFACE TREATMENT OF ENGINEERING COMPONENTS 67-06 M10-71938
HEAT TREATMENTS AND THEIR EFFECTS ON FATIGUE STRENGTH OF PARTS 67-06 M10-72145
INVESTIGATION OF SUSCEPTIBILITY OF WELDED SEAMS TO CARBURIZING 67-06 M11-71645
EFFECT OF SMALL ADDITIONS OF CHROMIUM AND MOLYBDENUM ON THE BEHAVIOR OF CARBON AND NITROGEN IN CARBONITRIDED CASES ON STEEL 67-06 M11-72299
RESIDUAL STRESSES AND FATIGUE LIFE OF CASE-CARBURIZED GEARS 67-06 M17-70878
TITANIUM CARBIDE DISPERSION-STRENGTHENED NICKEL BY INTERNAL CARBURIZATION 67-06 M17-71076
INVESTIGATION OF CARBURIZATION AND DESULFURIZATION IN LOW-SHAFT ELECTRIC FURNACES 67-07 M04-73238
THE PROBLEM OF CASE HARDENABILITY 67-07 M10-73184
THE CARBURIZING OF CASE HARDENING STEELS IN THE TEMPERATURE RANGE OF 920 TO 1100 C 67-07 M10-73185
PROCESS TO CONTROL ACTIVE CARBURIZING BATHS 67-07 M10-74213
CARBURIZATION OF FE-CR ALLOYS DURING OXIDATION IN DRY CARBON DIOXIDE 67-07 M14-73450
INTERNAL OXIDATION DURING CASE HARDENING OF STEELS IN ENDOTHERMIC ATMOSPHERES 67-07 M18-74176
A HIGH-TEMPERATURE CORROSION-RESISTANT CHROMIUM-NICKEL STEEL 67-08 M10-74874
INCREASE OF THE STRENGTH OF TRACTOR GEARS BY CASE HARDENING AND NITROCEMENTATION 67-08 M10-74972
CHEMICOTHERMAL TREATMENT OF GEARS 67-08 M17-76101
THE SIGNIFICANCE OF A CONTROLLABLE COMPOSITON OF RESIDUAL GASES IN HIGH-TEMPERATURE INVESTIGATION OF METALS BY ELECTRON MICROSCOPY 67-09 M10-76464
CARBURIZATION EQUILIBRIA OF ALPHA-IRON WITH METHANE-HYDROGEN MIXTURES IN THE RANGE 600 TO 800 C. AND THEIR THERMODYNAMIC EVALUATION 67-09 M10-77076
INFLUENCE OF ADDITION OF AMMONIUM TO THE CARBURIZING GAS ON STRUCTURE AND MECHANICAL PROPERTIES OF DRILLING CHISELS 67-09 M10-77420
INVESTIGATION OF THE CARBURISING TENDENCY OF WELDS 67-10 M10-79612
ELECTRON DIFFRACTION ANALYSIS OF THE CARBURIZING OF THIN TUNGSTEN LAYERS ANNEALED IN VACUUM AT HIGH TEMPERATURES 67-10 M10-80067
EFFECT OF CEMENTATION AND SUBSEQUENT DIFFUSION CHROMIZING ON THE INTERACTION OF IRON AND LIQUID ZINC 67-10 M18-78849
POROUS PLUG FOR CARBURIZING AND DESULFURIZING MOLTEN FE IN FOUNDRY LADLES 67-11 M06-80387
APPLICATION OF AN EQUIVALENCE BETWEEN TIME AND TEMPERATURE TO THE STUDY OF CARBURIZING AND DECARBURIZING 67-11 M10-80145
CARBURIZED NICKEL ALLOY STEELS 67-12 M01-81804
EFFECT OF HEAT TREATING CONDITIONS ON THE PROPERTIES OF SINTERED IRON MATERIALS. PT. 1. THE EFFECT OF HARDENING AND CASE-HARDENING TEMPERATURES ON SOME PROPERTIES OF VARIOUS SINTERED IRON MATERIALS 67-12 M09-82840
NEW DEVELOPEMENTS IN SALT BATH HEAT TREATING 67-12 M10-81943
ADVANTAGES OF HIGH TEMPERATURE CARBURIZING 67-12 M10-82554
RELATIONSHIP BETWEEN THE DIFFUSION OF C AND THE DISTRIBUTION OF TEMPERATURE WITHIN A CHARGE 67-12 M10-82841
THE HEAT TREATMENT OF STEELS 67-12 M10-82926
KINETIC REACTIONS OF CO ON DIVIDED NICKEL 67-12 M14-82695

A COMPUTER ANALYSIS OF GAS-METAL DIFFUSION
67-12 M14-83070
THE FRACTURE BEHAVIOR OF CASE-HARDENED PARTS
67-12 M17-82838
THE FATIGUE STRENGTH AND THE EFFECT OF NONMETALLIC INCLUSIONS ON THE ENDURANCE OF CASE-HARDENING STEELS
67-12 M17-82845
CARBURIZING, ACTIVITY /CHEMICAL/
INTRODUCTION OF C14 INTO IRON AND NICKEL ALLOYS
67-06 M10-71338
CARBURIZING, AUTOMATION
SOME CONSIDERATIONS ON GAS DRIP CARBURIZING
67-07 M10-74096
CARBURIZING, CONTROLLED ATMOSPHERES
HEAT TREATING-P/M PARTS AND EXTRUSIONS
67-07 M10-73962
CARBURIZING, IMPURITY EFFECTS
THE IMPORTANCE OF SURFACE TREATMENT DURING DECARBURIZING ANNEALING OF COMMERCIAL IRON
67-09 M10-77088
CARRIER CONCENTRATION
SEE CARRIER DENSITY
CARRIER DENSITY
SEE ALSO ELECTRON DENSITY
HOLE DENSITY
OPTICAL PROPERTIES OF DILUTED SOLID SOLUTIONS OF SILVER-GOLD
67-02 M15-62091
CARRIER-CONCENTRATION PROFILES OF N-TYPE SN AND TE DOPED EPITAXIAL GAAS FILMS
67-03 M16-65430
STUDIES OF THE ELECTRICAL PROPERTIES OF URANIUM OXIDES. PT. 3. THERMOELECTRIC POWER OF ALPHA-U3O8
67-05 M15-69772
SOME ELECTRICAL PROPERTIES OF THE SEMI-CONDUCTOR BETA-GA2O3
67-05 M16-69574
DE HAAS-VAN ALPHEN EFFECT AND FERMI SURFACE IN ARSENIC
67-06 M16-69918
DONOR AND CARRIER DISTRIBUTIONS IN OXYGEN-GROWN GAAS
67-06 M16-71144
LIFETIME OF MINORITY CARRIERS IN MERCURY-DOPED GERMANIUM
67-06 M16-71764
ELECTRICAL PROPERTIES OF HEAVILY DOPED P-TYPE GERMANIUM CONTAINING BERYLLIUM
67-06 M16-71773
EFFECT OF HEAVY DOPING ON THE SEMICONDUCTOR BAND STRUCTURE
67-07 M16-74204
PREPARATION OF HIGH-MOBILITY THIN FILMS OF INDIUM ANTIMONIDE
67-08 M14-75161
RECOMBINATION CENTERS IN INSB
67-08 M15-75119
MICROWAVE MEASUREMENT OF DIFFERENTIAL NEGATIVE CONDUCTIVITY DUE TO INTERVALLEY TRANSFER OF HOT ELECTRONS IN N-TYPE GAAS
67-08 M16-74470
THE CONCENTRATION OF CHARGE CARRIERS IN A SEMICONDUCTOR ILLUMINATED BY A LASER
67-10 M15-79469
LOW TEMPERATURE ELECTRICAL PROPERTIES OF SILICON MATERIAL
67-10 M15-80025
EFFECT OF FREE CARRIERS ON SHEAR MODULUS OF GERMANIUM
67-10 M17-79114
THERMOMAGNETIC EFFECTS IN THE SEMICONDUCTING INTERMETALLIDES, ZN4SB3 AND ZN3SB2, AND THE CHARACTER OF THE CHEMICAL BOND
67-11 M15-80172
IMPROVEMENT OF MINORITY CARRIER LIFETIME IN SILICON DIODES
67-11 M16-80839
NONOHMIC PROPERTIES IN N-TYPE INSB
67-12 M15-81767
SEEBECK COEFFICIENT OF THIN-FILM GERMANIUM
67-12 M15-82361
ELECTRICAL PROPERTIES OF NONSTOICHIOMETRIC THORIUM CARBIDES
67-12 M15-82364
RETROGRADE SOLUBILITY OF LEAD IN N-TYPE PBS
67-12 M15-82853
ABOUT THE ROLE OF MINORITY CARRIERS IN THE IMPURITY CONDUCTION OF GASB
67-12 M16-82014
CARRIER DENSITY, ELECTRIC FIELDS
HOT CARRIER CONCENTRATION IN NI-TYPE GERMANIUM--A SUGGESTED EXPERIMENT
67-02 M15-60772
CARRIER DENSITY, IMPURITY EFFECTS
GALVANOMAGNETIC STUDIES OF SN-DOPED BI. PT. 1. POSITIVE FERMI ENERGIES
67-05 M15-69815
CARRIER DENSITY, RADIATION EFFECTS
RADIATION DAMAGE IN CADMIUM SULFIDE AND CADMIUM TELLURIDE
67-08 M16-75126
CHANGES PRODUCED IN THERMOELECTRIC MATERIALS BY THERMAL-NEUTRON IRRADIATION
67-11 M16-80304
CARRIER DENSITY, STRESS EFFECTS
EFFECT OF STRESS ON GERMANIUM AND SILICON P-N JUNCTIONS
67-08 M16-74605
CARRIER DENSITY, TEMPERATURE EFFECTS
PROPERTIES OF EPITAXIAL SILICON FILMS GROWN BY VACUUM EVAPORATION
67-02 M15-61659
GALVANOMAGNETIC PROPERTIES OF SINGLE-CRYSTAL ANTIMONY BETWEEN 77 AND 273 K
67-07 M16-74060
CARRIER FREE MATERIALS
SEE INSULATORS
CARRIER LIFE
EFFECTS OF OXYGEN AND DOPANT ON LIFE-TIME IN NEUTRON-IRRADIATED SILICON
67-03 M16-65743
RECOMBINATION IN HIGH-RESISTIVITY SILICON
67-06 M16-70525
LIFETIME OF MINORITY CARRIERS IN MERCURY-DOPED GERMANIUM
67-06 M16-71764
LIFETIME IN SINGLE CRYSTALS OF GALLIUM ARSENIDE
67-06 M16-71830
LIFETIME OF MINORITY CARRIERS IN GERMANIUM DOPED WITH MERCURY
67-06 M16-71915
CARRIER RECOMBINATION IN INAS
67-07 M16-74059
STUDY OF ELECTRON LIFETIME IN P-SI
67-11 M15-80622
CARRIER MOBILITY
SEE ALSO ELECTRON MOBILITY
HOLE MOBILITY
EVALUATION OF TRACE IMPURITIES IN THE PREPARATION OF HIGH-PURITY SILICON CARBIDE
67-02 M16-59451
PREPARATION OF SEMICONDUCTOR MATERIALS. PT. 3
67-03 M16-65456
EFFECT OF STRUCTURAL DEFECTS ON SOME ELECTRICAL PROPERTIES OF GERMANIUM DOPED WITH GOLD AND ANTIMONY
67-03 M16-65461
GALVANOMAGNETIC PROPERTIES OF SURFACE LAYERS IN INDIUM ARSENIDE
67-04 M16-66764
DEPENDENCE OF CARRIER SCATTERING ANISOTROPY IN N-GE ON IMPURITY CONCENTRATION
67-05 M15-68576
PIEZ/-HALL EFFECT IN N-TYPE GERMANIUM
67-05 M15-69771
INVESTIGATION OF THE FERMI SURFACE AND OF CARRIER VELOCITIES IN INDIUM BY THE CYCLOTRON RESONANCE METHOD
67-05 M16-69027
CHARGE TRANSPORT PHENOMENA IN MOS SYSTEM
67-05 M16-69293
MOBILITY OF CURRENT CARRIERS AND MAGNETORESISTANCE IN BISMUTH ALLOYS
67-06 M15-70186
SURFACE-STATE MODELS FOR CLEAN AND OXYGEN-COVERED GERMANIUM
67-06 M16-71024
DEPENDENCE OF CARRIER MOBILITY ON TEMPERATURE IN GAAS CRYSTALS IRRADIATED BY FAST ELECTRONS
67-06 M16-71762
MOBILITY OF MINORITY CARRIES IN DEGENERATE GALLIUM ARSENIDE
67-06 M16-71772
MOBILITY OF MINORITY CARRIERS IN DEGENERATE GALLIUM ARSENIDE
67-06 M16-71926
HALL EFFECT IN LI-DOPED MNO
67-07 M15-73298
SURFACE TRANSPORT PHENOMENA IN PBS% EPITAXIAL FILMS
67-07 M16-73944
EFFECTS OF HIGH PRESSURE, UNIAXIAL STRESS AND TEMPERATURE ON THE ELECTRICAL RESISTIVITY OF N-GAAS
67-07 M16-73945
PREPARATION OF HIGH-MOBILITY THIN FILMS OF INDIUM ANTIMONIDE
67-08 M14-75161
EFFECT OF STRESS ON GERMANIUM AND SILICON P-N JUNCTIONS
67-08 M16-74605
EPITAXIAL GROWTH OF GERMANIUM ON SINGLE CRYSTAL SPINEL
67-09 M14-77898
ANOMALOUSLY HIGH-MOBILITY PBTE
67-09 M16-77016
CONDUCTANCE AND CAPACITANCE OF 6 DEGREE TILT BOUNDARIES IN P-TYPE INSB
67-09 M16-77448
TRAVELING-WAVE AMPLIFICATION BY DRIFTING CARRIERS IN SEMICONDUCTORS
67-10 M15-79124
LONGITUDINAL MAGNETORESISTANCE AND HALL MOBILITY OF N-TYPE GERMANIUM AT HIGH ELECTRIC FIELDS
67-10 M15-79153
ABSORPTION OF INFRARED RADIATION BY FREE CARRIERS IN N-GAAS
67-10 M15-79447
TEMPERATURE DEPENDENCE OF PHOTOLUMINESCENCE IN CADMIUM-DOPED EPITAXIAL GAAS
67-10 M16-79161
FREQUENCY SPECTRUM OF ACOUSTIC WAVES GENERATED IN PHOTOCONDUCTING CDS IN HIGH ELECTRIC FIELDS
67-10 M16-79407
THERMOMAGNETIC EFFECTS IN THE SEMICONDUCTING INTERMETALLIDES, ZN4SB3 AND ZN3SB2, AND THE CHARACTER OF THE CHEMICAL BOND
67-11 M15-80172
CARRIER MOBILITY, PRESSURE EFFECTS
INTERBAND CARRIER TRANSFER IN GAAS AT HIGH PRESSURES
67-10 M16-79360
CARRIER MOBILITY, RADIATION EFFECTS

CARRIER MOBILITY
ENERGY DEPENDENCE OF NEUTRON DAMAGE IN SILICON 67-05 M16-69216
HALL MOBILITY ANNEALING IN ELECTRON IRRADIATED GERMANIUM 67-07 M16-73883
CARRIER MOBILITY, TEMPERATURE EFFECTS
PROPERTIES OF EPITAXIAL SILICON FILMS GROWN BY VACUUM EVAPORATION 67-02 M15-61659
GALVANOMAGNETIC PROPERTIES OF SINGLE-CRYSTAL ANTIMONY BETWEEN 77 AND 273 K 67-07 M16-74060
CARS /PASSENGER VEHICLES/
SEE AUTOMOBILES
CARS /RAILROAD/
SEE RAILROAD CARS
CASE CARBURIZING
SEE CARBURIZING
CASE DEPTH
LOW-TEMPERATURE CARBONITRIDING OF TOOL STEELS IN AMMONIUM PASSED THROUGH HOT COAL 67-04 M10-66453
DETERMINING THE CASE DEPTH IN HIGH-FREQUENCY INDUCTION SURFACE HARDENING 67-05 M10-68763
HARDENABILITY MEASUREMENTS. PT. 4 67-06 M17-70829
THE CARBURIZING OF CASE HARDENING STEELS IN THE TEMPERATURE RANGE OF 920 TO 1100 C 67-07 M10-73185
DEPTH OF THE DECARBURIZED AND QUENCHED LAYERS ON STEEL PRODUCTS CONTROLLED MAGNETICALLY BY MEASURING THE LOCAL FIELD FROM THE RESIDUAL MAGNETIZATION 67-08 M10-75444
NONDESTRUCTIVE TEST OF THE SURFACE HARDNESS OF CASE HARDENED SPECIMENS AT CONSTANT CARBURIZING DEPTH 67-09 M17-77481
LOW-TEMPERATURE CYANIDING OF HIGH-SPEED STEELS IN AMMONIA FILTERED THROUGH GLOWING COAL 67-11 M10-80994
ADVANTAGES OF HIGH TEMPERATURE CARBURIZING 67-12 M10-82554
EFFECT OF REPETITION ON GAS NITRIDING CYCLES ON THREE TYPES OF STEEL 67-12 M10-83567
CASE DEPTH, ALLOYING EFFECTS
SURFACE ATTACK IN CR-FE ALLOYS 67-02 M10-59017
CASE DEPTH, NONDESTRUCTIVE TESTING
NONDESTRUCTIVE TESTING OF CARBURIZATION DEPTH 67-03 M19-65734
CASE DEPTH, TEMPERATURE EFFECTS
THE EFFECT OF TIME AND TEMPERATURE ON THE QUALITY AND DEPTH OF CASE, PRODUCED BY PACK CARBURIZING A LOW ALLOY STEEL, EN. 354 67-08 M10-76200
CASE HARDENABILITY
NEW CASE-HARDENABLE 20KHGSVT STEEL 67-04 M20-67959
CHROMIUM-MOLYBDENUM NITRIDING STEELS WITH 2.5/3.5 PER CENT CR 67-06 M17-70037
THE PROBLEM OF CASE HARDENABILITY 67-07 M10-73184
THE CARBURIZING OF CASE HARDENING STEELS IN THE TEMPERATURE RANGE OF 920 TO 1100 C 67-07 M10-73185
CASE HARDENABILITY, ALLOYING EFFECTS
TRANSFORMATION FEATURES OF CARBURIZED CR-MO STEELS 67-09 M14-76757
CASE HARDENING
SEE ALSO CARBONITRIDING
CARBURIZING
CYANIDING
GAS CARBURIZING
NITRIDING
PACK CARBURIZING
TUFFTRIDING
THE SULFIDIZING AND SELENIDIZING OF STEEL AND GRAY CAST IRON 67-02 M10-60502
METHOD OF CHEMICAL-THERMAL TREATMENT OF METALS AND ALLOYS IN A HARD POWDER MIXTURE 67-02 M10-60798
OBTAINING CONTROLLED ATMOSPHERES IN FLUID BED HEATING FURNACES 67-02 M10-60854
THE USE OF IMPACT TORSION TESTING IN THE TESTING OF SURFACE-TREATED MATERIALS 67-02 M17-60024
CHROMALUMINIZING 67-02 M18-60861
BORIDING IN A POWDER MIXTURE 67-04 M10-66459
EFFECTS OF STEEL QUALITY ON THE RESULTS OF HEAT TREATMENT WITH THE CORRECT TREATMENT CONDITIONS OBSERVED 67-04 M10-68051
INVESTIGATION OF THE STRUCTURE OF THE CASE HARDENED LAYER OF 20KHGVT AND 20KHGSVT NICKEL-LESS STEELS 67-04 M13-66625
FATIGUE RESISTANCE AND WORKING LIFE OF MACHINE PARTS HARDENED BY CHEMICOTHERMAL TREATMENT 67-04 M17-67954
INCREASE OF THE WEAR RESISTANCE OF MACHINE PARTS OPERATED IN HYDROABRASIVES MEDIA 67-04 M17-67964
DETERMINING THE CASE DEPTH IN HIGH-FREQUENCY INDUCTION SURFACE HARDENING 67-05 M10-68763
SUBSTITUTE TUNGSTEN STEELS IN THE AUTOMOBILE INDUSTRY 67-06 M10-71816
A MASS PRODUCTION HEAT TREAT SHOP 67-06 M10-71903
LOW ALLOY CASE HARDENABLE STEELS WITH A CORE OF HIGH STRENGTH AND DUCTILITY 67-06 M17-70354
RESIDUAL STRESSES AND FATIGUE LIFE OF CASE-CARBURIZED GEARS 67-06 M17-70878
CASE-HARDENING WITH CARBON IN A SOLID MEDIUM 67-08 M10-74743
DEPTH OF THE DECARBURIZED AND QUENCHED LAYERS ON STEEL PRODUCTS CONTROLLED MAGNETICALLY BY MEASURING THE LOCAL FIELD FROM THE RESIDUAL MAGNETIZATION 67-08 M10-75444
POSSIBLE APPLICATIONS OF TUNGSTEN CASE-HARDENING STEELS 67-09 M10-77885
SELECTION OF A METHOD OF HEATING CYLINDRICAL COMPONENTS WITH CHAMFERS PRIOR TO CASE HARDENING 67-10 M10-78350
NEW SPANISH STEELS AND COPPER ALLOYS IN FORGINGS 67-10 M10-78873
SOME SPECIFIC DATA ON THE USE OF AISI 52100 STEEL FOR TOOLING APPLICATIONS 67-10 M10-79519
THE PREPARATION OF MONOCRYSTALS OF FE-CR ALLOYS BY CASE HARDENING FE WITH CR. ORIENTATIONS BEFORE AND AFTER TREATMENT 67-10 M14-79706
BORONIZING WITH POWDERED MIXTURES 67-11 M10-81000
MATERIALS AND HEAT TREATMENT 67-11 M10-81496
CARBURIZED NICKEL ALLOY STEELS 67-12 M01-81804
RELATING THE FURNACE ATMOSPHERE TO THE JOB. PT. 2 67-12 M10-82882
INVESTIGATIONS OF THE EFFECT OF SURFACE TREATMENT ON THE FATIGUE PROPERTIES OF STEELS 67-12 M17-82843
INVESTIGATION OF THE RELATIONSHIP BETWEEN THE BENDING FATIGUE STRENGTH AND THE DISTRIBUTION OF RESIDUAL STRESSES OF CASE-HARDENED STEELS 67-12 M17-82844
CASE HARDENING, ALLOYING EFFECTS
STEEL COMPOSITION REQUIREMENTS OF THE AUTOMOBILE INDUSTRY 67-09 M10-76417
CASE HARDENING, AUTOMATION
HEAT TREATMENT OF STRUCTURAL STEELS BY HARDENING AND TEMPERING 67-08 M10-74750
CASE HARDENING, CONTROLLED ATMOSPHERES
CARBON POTENTIAL--ITS MEASUREMENT, REGULATION AND SIGNIFICANCE IN CASE-HARDENING PRACTICE 67-08 M10-74746
PRODUCTION-LINE HEAT TREATMENT OF LIGHT ENGINEERING COMPONENTS--PRESENT TRENDS 67-08 M10-74753
CASE HARDNESS
SEE SURFACE HARDNESS
CASING /MATERIAL/, CORROSION
CORROSION AND PROTECTION METHODS FOR ALUMINUM SHEATH OF COMMUNICATION CABLES 67-05 M18-69830
EFFECTS OF MUTUAL INTERFERENCE. OIL WELL CASING CATHODIC PROTECTION SYSTEMS 67-06 M18-71227
CORROSION AND METHODS OF PROTECTING THE ALUMINUM CASING BY COMMUNICATION CABLES 67-12 M18-82264
CASING /MATERIAL/, POWDER METALLURGY
PRODUCTION OF POWDER COMPOSITE CASINGS FOR THE TEETH OF MILLING CUTTERS 67-08 M09-74914
CASING /MATERIAL/, WELDING
WELDING NUCLEAR FUEL CASINGS 67-08 M11-75800
CASKS
SEE BARRELS /CONTAINERS/
CASS TEST
SEE CORRODKOTE TESTS
CASSITERITE, BENEFICIATION
EFFECT OF LOW-MOLECULAR WEIGHT ALIPHATIC ACIDS IN FLOTATION OF CASSITERITE, TANTALITE AND GARNET 67-02 M02-59545
FLOTATION OF CASSITERITE AND WOLFRAMITE FROM SLURRIES OF GRAVITY BENEFICIATION 67-02 M02-59547
STUDY OF THE FLOTATION PROPERTIES OF CASSITERITE, WOLFRAMITE, ILMENITE AND HEMATITE OF ONE OF THE ORE SITES OF THE VIET NAM DEMOCRATIC REPUBLIC 67-03 M02-65573

BENEFICIATION OF LOW-GRADE TIN ORES BY FLOTATION
67-06 M03-70972
FLOTATION OF SILICATES AND OXIDES WITH A MIXTURE OF SHORT-CHAIN FATTY ACIDS 67-08 M02-75172

CASSITERITE, EXTRACTION
RECOVERY OF CASSITERITE IN A RUOSS JIG
67-08 M03-74781

CASSITERITE, REDUCTION /CHEMICAL/
REDUCTION MECHANISM OF TIN CONCENTRATE AND SLAG
67-07 M03-73412

CAST ALLOY TOOLS, MECHANICAL PROPERTIES
WEAR ON HIGH-SPEED CAST STEEL TOOLS
67-08 M17-74556

CAST IRON
SEE ALSO ALLOY CAST IRON
CHROMIUM IRON
GRAY IRON
MALLEABLE IRON
MOTTLED IRON
NICKEL IRON
NODULAR IRON
WHITE IRON
POTENTIAL OF INDUCTION HEATING 67-04 M01-66399
THE ROLE OF ULTRASONIC MEASURING IN THE STRUCTURAL EVALUATION OF FERROUS MATERIALS, PARTICULARLY CAST IRON 67-05 M19-68596

CAST IRON, AGING /METALLURGICAL/
BASIC FACTORS IN THE VIBRATION AGING OF IRON CASTINGS 67-04 M17-67948

CAST IRON, BONDING
THE ADHESIVE BONDING OF METALS WITH DIFFERENT COEFFICIENTS OF THERMAL EXPANSION
67-05 M11-68939
INFLUENCE OF TECHNOLOGICAL FACTORS ON STRENGTH OF ADHESIVE BONDS 67-12 M11-81776

CAST IRON, CASTING
SOME EXPERIMENTS ON THE CHILL ZONE OF CAST IRONS
67-01 M06-57404
IMPROVING THE QUALITY OF CAST IRON PIPES, CAST BY THE SEMICONTINUOUS METHOD
67-01 M06-57464
PRECISION OF MALLEABLE CASTINGS
67-01 M06-57471
FOUNDRY TECHNIQUE USING CHROMITE SANDS
67-01 M06-58475
STUDIES ON THE MANUFACTURING AND MECHANICAL PROPERTIES OF VANADIUM-CONTAINING HIGH-GRADE CAST IRON 67-01 M06-58741
EXPERIMENTAL WORK ON GRAVITY DIE CASTING OF IRON
67-02 M06-59079
EFFICIENT GRADING OF CAST IRON PIPES FOR CENTRIFUGAL AND SEMICONTINUOUS CASTING
67-02 M06-59174
ELIMINATION OF CHILLING IN THINWALLED MAGNESIUM-TREATED IRON CASTINGS 67-02 M06-61007
PREVENTION OF SHRINKAGE DEFECTS IN THICK SECTIONS AND HOT SPOTS OF HIGH-DUTY IRON CASTINGS
67-02 M06-61010
CENTRIFUGAL CASTING OF IRON SLEEVES WITHOUT CHILLING 67-02 M06-61019
CALCULATING MOLD ROTATION VELOCITY IN CENTRIFUGAL CASTING OF IRON PIPES 67-02 M06-61226
CASTING NEEDLE-TYPE PIPES AND THERMAL UNITS
67-02 M06-61235
PRODUCTION OF CALENDER AND OTHER SHAFTS FOR PAPER-MAKING MACHINES 67-02 M06-61240
CASTING IRON FLANGES OF FINNED TUBES INTO ANODIZED CHILL MOLDS 67-02 M06-61810
HOT TEARING IN SEMI-CONTINUOUSLY CAST PIPES
67-02 M17-61190
USE OF ELECTRONIC COMPUTERS FOR CALCULATING CHARGE IN FOUNDRY PRODUCTION 67-04 M06-66415
COOLING OF MOLDS DURING PIPE CASTING
67-04 M06-67505
EFFECT OF MOLD GROOVING ON THE RATE OF COOLING OF CHILLED MILL ROLLS 67-04 M06-67619
CALCULATING THE ROTARY SPEED OF THE MOLD IN THE CASTING OF IRON PIPES 67-04 M06-68087
CENTRIFUGAL CASTING OF PIPES FROM SLAG MELTS
67-04 M06-68088
EXPERIENCE IN CASTING NEEDLE-TYPE TUBES AND HEAT EXCHANGE BLOCKS 67-04 M06-68096
PRODUCTION OF CALENDAR AND OTHER ROLLS FOR PAPERMAKING MACHINES 67-04 M06-68100
TECHNOLOGICAL VALUES OF DETERMINING RISER DIMENSIONS FOR IRON-CARBON-SILICON ALLOYS AND ESPECIALLY FOR CAST IRON. PT. 1-2
67-05 M06-68737
INOCULATING CAST IRON WITH MAGNESIUM SALTS
67-05 M06-69045
TECHNOLOGICAL VALUES FOR DETERMINING RISER DIMENSIONS FOR IRON-CARBON-SILICON ALLOYS AND ESPECIALLY FOR CAST IRON. PT. 3.
67-06 M04-72282
FUSION CHARACTERISTICS OF INSERTS AND CHAPLETS
67-06 M06-70554
IMPROVING THE QUALITY OF SEMICONTINUOUSLY CAST IRON PIPES 67-06 M06-70752
SURFACE COLOR OF THE MOLD INFLUENCES SCABBING
67-06 M06-71675
OPERATING EXPERIENCE IN THE CASTING OF COMPLEX V ENGINES 67-07 M06-72489
CENTRIFUGAL CASTING OF IRON PIPES INTO METAL MOLDS COATED WITH SAND-RESIN 67-07 M06-74036
PRACTICAL ASPECTS OF THE PRODUCTION OF LARGE IRON GRAVITY DIECASTINGS 67-08 M06-74555
CASTING OF CAST IRON IN METAL MOLD
67-08 M06-74620
EFFECT OF CERIUM AND LANTHANUM ON THE CHILL OF CAST IRON 67-08 M06-75190
THERMAL EXPANSION OF MOLD MATERIAL AS ONE OF THE CAUSES OF PRESHRINKAGE EXPANSION OF CASTINGS
67-08 M06-75191
THEORY AND CALCULATION OF THE PROCESS OF FILLING THE MOLDS OF VERTICAL THIN-WALLED CASTINGS USING A BOTTOM GATE 67-08 M06-75193
CASTING IRON FLANGES FOR FINNED PIPES IN ANODISED DIES 67-09 M06-78082
CAST STRUCTURAL PARTS PRODUCED BY FULL-FORM CASTING
67-10 M06-78643
SELECTING A SUITABLE RANGE OF CAST IRON PIPES FOR CENTRIFUGAL AND SEMICONTINUOUS CASTING
67-10 M06-78883
CAST MAGNESIUM-TREATED IRON CRANKSHAFTS FOR K-650 MOTORCYCLE ENGINES 67-10 M06-78884
PRODUCING LONG-LIFE INGOT MOULDS MADE OF IRON INOCULATED WITH MAGNESIUM 67-10 M06-79266
THE PRESSURE DIE CASTING OF IRONS AND STEELS
67-10 M06-79293
RESIDUAL STRESS IN CAST IRON TUBES
67-12 M06-82087
CASTING INGOT MOLDS IN SYNTHETIC CAST IRON
67-12 M06-82099
THERMAL PROPERTIES OF MOLD COATING IN THE METAL MOLD CASTING FOR CAST IRON 67-12 M06-82604
POURING CHUTES FOR CENTRIFUGAL CASTING OF IRON PIPES 67-12 M06-83030
FEATURES IN EUTECTIC CRYSTALLIZATION IN THE METASTABLE FE-FE3C-SI SYSTEM AND IN LIQUATION OF SI IN WHITE CAST IRON 67-12 M14-81974
CONTINUOUS TEMPERATURE MEASUREMENT OF AN IRON STREAM 67-12 M19-82085

CAST IRON, CASTINGS
THE CLEANING AND DEGRAPHITIZATION OF CAST IRONS
67-03 M12-65454
HOT-CRACKING SUSCEPTIBILITY OF CAST METALS
67-06 M06-71192
VIBRATION CLEANING OF CASTINGS 67-06 M12-70750
WEAR CONSIDERATIONS IN DESIGN 67-06 M17-70698

CAST IRON, CHEMICAL ANALYSIS
COLORIMETRIC DETERMINATION OF SILICON IN CAST IRON
67-01 M19-57210
DETERMINATION OF METALS IN METALS BY ATOMIC ABSORPTION SPECTROPHOTOMETRY 67-01 M19-57931
COMPLETE SPECTROCHEMICAL CONTROL IN A DIVERSIFIED FOUNDRY 67-03 M19-65009
SPECTROGRAPHIC DETERMINATION OF LOW BORON CONTENTS IN CAST IRON AND STEEL 67-07 M19-72717
A STUDY OF ATOMIC ABSORPTION SPECTROMETRY--DETERMINATION OF MAGNESIUM AND CALCIUM IN SLAG AND CAST IRON 67-09 M19-77875
A TEST FOR DETERMINING CARBON EQUIVALENT OF HYPEREUTECTIC CAST IRON 67-10 M19-79292
PHOSPHORUS IN CAST IRONS--IMPURITY OR FACTOR OF QUALITY 67-11 M06-80527
LOCAL SPECTRAL ANALYSIS OF IRON USING LASERS
67-12 M19-82086
DETERMINING THE CARBON CONTENT IN CUPOLA IRON
67-12 M19-82093

CAST IRON, CHIPS
PRODUCING SYNTHETIC CAST IRONS FROM SHAVINGS
67-02 M06-61801
USING CAST IRON SHAVINGS IN PRODUCING CAST IRON IN INDUCTION FURNACES 67-02 M06-61802

CAST IRON, CLEANING
VIBRATION CLEANING OF CASTINGS 67-01 M12-57462
ELECTROLYTIC DESCALING IN ALKALI SOLUTIONS
67-06 M12-71811

CAST IRON, COATING
CIRCULAR ELECTROSLAG DEPOSIT WELDING OF PARTS IN VERTICAL POSITION 67-02 M12-61252
NOTES ON WET PROCESS CAST IRON ENAMELLING 67-03 M12-65930
VITREOUS COATINGS ON CASTINGS 67-03 M12-65931
THE CIRCUMFERENTIAL ELECTROSLAG BUILDING UP OF CYLINDRICAL COMPONENTS 67-04 M12-66525
THE ADHESION TEMPERATURE BETWEEN GLASS AND METALS 67-04 M12-67421
SOME OBSERVATIONS ON THE CARBON-CONTAINING REGIONS OF ENAMELLING STEEL AND CAST IRON UNDER ENAMELLING CONDITIONS 67-04 M14-67903
PROTECTION OF IRON AND STEEL STRUCTURES FROM CORROSION 67-06 M18-72257
FLEXIBILITY PAYS DIVIDENDS IN FINISHING HEAVY WORKPIECES 67-07 M12-74030
VITREOUS COATINGS ON CASTINGS 67-08 M12-75550
THE DETERMINATION OF THE RESIDUAL STRAIN IN SOME VITREOUS ENAMEL COATINGS 67-10 M17-78453
CAST IRON, COATINGS
MEASURING TEMPERATURES IN HEAT TREATING 67-02 M19-60862
CAST IRON, CONNECTING RODS
THE CAST CONNECTING ROD 67-11 M06-81190
CAST IRON, COOLING CURVES
STUDY OF SOLIDIFICATION OF CAST IRONS 67-06 M14-70356
CAST IRON, CORROSION
ON THE CORROSION RATE OF CAST IRON BY SULFUR DIOXIDE 67-01 M18-58545
IRON ALLOYS WITH ALUMINUM AND COPPER. PT. 1. EFFECT OF COPPER ON THE HIGH-TEMPERATURE CORROSION RESISTANCE OF CAST STEELS AND HIGH-ALUMINUM CAST IRONS 67-02 M18-58984
THE EFFECTS OF CLO ION ON THE CORROSION BEHAVIORS OF STAINLESS STEELS IN CONCENTRATION CAUSTIC SODA SOLUTIONS 67-02 M18-59736
CORROSION OF STEELS BY SEA WATER 67-02 M18-60043
ZINC AND ITS ALLOYS--APPLICATIONS 67-03 M18-65451
ACID RESISTANT, HIGH-ALLOY SI CAST IRON 67-04 M18-66187
EFFECT OF EXPOSURE TIME ON CAVITATION DAMAGE 67-04 M18-66232
CHROMIZING OF MACHINE COMPONENTS OF STEEL AND CAST IRON 67-05 M12-69070
PREVENTION OF CORROSION IN PAPERMAKING MACHINES. CATHODIC POLARIZATION WITH PLATINUM-TITANIUM ANODES 67-05 M18-69418
CORROSION OF SOME METALS AND ALLOYS IN ALUMINUM ALLOY 67-06 M18-70177
APPLICATION OF ELECTRON BEAM MICROANALYSIS IN CORROSION INVESTIGATIONS 67-07 M18-73118
RESISTANCE OF SOME MATERIALS IN MOLTEN TIN 67-08 M18-75147
ON THE CORROSION-FATIGUE AND FATIGUE-DAMAGE OF CAST IRON 67-12 M18-82603
FUNDAMENTAL EXPERIMENT ON SOILS. PT. 1. STUDIES ON SOIL CORROSION OF METALLIC MATERIALS 67-12 M18-82892
CAST IRON, CRUSHERS
INFLUENCE OF HEAT TREATMENT ON THE WEAR RESISTANCE OF CEMENT MILL GRINDING BALLS 67-12 M17-81883
CAST IRON, CRYSTAL GROWTH
INOCULATION IN MOLD IS MORE EFFECTIVE THAN IN LADLE 67-04 M06-68016
CAST IRON, CRYSTAL LATTICES
A NOTE ON THE STRUCTURE AND GROWTH MECHANISM OF SPHEROIDAL GRAPHITE CRYSTALS IN ALLOYS CONTAINING CARBON 67-08 M14-74432
LIGHT ELEMENT MICROANALYSIS 67-09 M13-76661
CAST IRON, CRYSTALLIZATION
INFLUENCE OF SN, SB AND BI ON THE CRYSTALLIZATION OF MAGNESIUM-TREATED IRON 67-02 M14-61196
CAST IRON, CUTTING
HIGH QUALITY PLASMA ARC CUTTING AND PIERCING 67-11 M08-80408
CAST IRON, DIFFUSION
STUDY OF DIFFUSION ON THE PHASE BOUNDARIES 67-03 M14-65786
THE DIFFUSION OF CARBON IN LIQUID FE-C-SI AND FE-C-S ALLOYS 67-08 M14-75663
RELATION BETWEEN OXIDATION AND DECARBURIZATION OF CAST IRON 67-12 M18-82450
CAST IRON, ELECTRICAL PROPERTIES
EFFECT OF IMPURITIES ON THE ANISOTROPY OF GRAPHITE CONDUCTIVITY AND GRAPHITIZATION 67-12 M15-81977
CAST IRON, FOUNDRY PRACTICE
HEAT PENETRATION IN MOLD WALL AFTER POURING 67-04 M03-68042
CAST IRON, FRICTION
METHOD FOR MANUFACTURING SECTORS FOR BRAKING SYSTEMS SUCH AS FOR AIRCRAFT 67-05 M20-69278
CAST IRON, GEARS
HIGH-DUTY IRON ENGINE GEARS 67-02 M17-61189
CAST IRON, GRAIN GROWTH
THEORETICAL ANALYSIS ON THE DILATOMETER CURVES OF CAST IRON 67-06 M14-70585
SUBGRAIN FORMATION IN FE-C-SI ALLOYS DUE TO CONSTITUTIONAL UNDERCOOLING 67-08 M14-75036
CAST IRON, HARD SURFACING
STRUCTURAL DEFECTS OF LAYERS APPLIED TO GRAY CAST IRON CASTINGS BY ELECTRIC ARC OVERLAY WELDING 67-06 M11-70362
VIBROARC DEPOSIT WELDING OF CAST IRON PARTS IN AIR STREAM 67-06 M11-72312
CAST IRON, HEAT TREATMENT
ISOTHERMAL HEAT TREATMENT OF HIGH DUTY ALLOY CAST IRON 67-02 M14-61195
DISLOCATION MECHANISM OF THE GROWTH OF SPHEROIDAL GRAPHITE IN IRON 67-02 M14-61929
KINETICS OF AUSTENITE FORMATION IN MAGNESIUM CAST IRON DURING INDUCTION HEATING 67-02 M14-62004
IMPROVEMENT OF THE WEAR RESISTANCE OF SPHEROIDAL GRAPHITE CAST IRON BY IONITRIDING 67-04 M10-68128
ALPHATIZING--A NEW CHROMIZING METHOD 67-04 M12-67799
INFLUENCE OF SUPERHEATING THE MOLTEN IRON ON THE WEAR RESISTANCE OF CASTINGS 67-04 M17-68097
NITRIDING AND CARBONITRIDING OF STEELS BY MEANS OF AN AMMONIA-LANCED OXYACETYLENE FLAME 67-05 M10-69329
HEAT TREATMENT OF CAST IRON SURFACES 67-05 M10-69345
CONTROLLED ANNEALING OF MALLEABLE IRON CASTINGS IN ELEVATOR-TYPE ELECTRIC FURNACE 67-05 M10-69549
QUANTITATIVE INVESTIGATION OF THE EFFECT OF VARIOUS FACTORS ON THE GRAPHITIZATION OF MALLEABLE CAST IRON 67-05 M14-68597
CONTROLLED ATMOSPHERES FOR THE HEAT TREATMENT OF METALS 67-06 M10-71937
HIGH-SPEED GRAPHITIZATION NORMALIZING OF HIGH-DUTY IRON CASTINGS IN A FLUIDIZED BED 67-07 M10-73041
SOME ASPECTS OF AUSTENITE FORMATION KINETICS IN INDUCTION HEATED MAGNESIUM-TREATED CAST IRON 67-08 M14-76087
VIBRATION AGING OF IRON CASTINGS 67-12 M06-82083
CONDITIONS OF VIBROAGING OF MACHINE PARTS MADE OF CAST IRON 67-12 M10-81775
HEAT TREATING MAGNESIUM CAST IRON WITH HIGH-FREQUENCY HEATING 67-12 M10-82621
RELATING THE FURNACE ATMOSPHERE TO THE JOB. PT. 2 67-12 M10-82882
CAST IRON, INGOT MOLDS
TEMPERATURE CYCLES OF INGOT MOLDS DURING USE. PT. 1. DETERMINATION OF TEMPERATURE CYCLES OF INGOT MOLDS MOUNTED ON BOGIES 67-07 M04-73329
CAST IRON, INOCULATION
A COMPLEX INOCULANT FOR CAST IRON 67-01 M06-57473
INFLUENCE OF BARIUM ALLOY ON STABILITY OF INOCULATION EFFECT 67-04 M06-67506
A COMPLEX ADDITIVE FOR CAST IRON 67-06 M06-70761
INOCULATING IRON FOR MOLDS WITH TITANIUM 67-07 M04-73779
INOCULATING IRON FOR INGOT MOULDS WITH TITANIUM 67-09 M04-76542
THE PRODUCTION OF CAST IRON WITH SPHEROIDAL GRAPHITE IN PRESSURE CHAMBERS 67-09 M04-77004
CAST IRON, IRRADIATION
THE IDENTIFICATION OF SMALL QUANTITIES OF MATERIAL BY EXO ELECTRONS 67-06 M19-72143
CAST IRON, MACHINING
MANUALLY PROGRAMED DRILLING AND MILLING OPERATIONS WITH A NUMERICALLY CONTROLLED TURRET DRILLING MACHINE 67-01 M08-58723
APPLICATIONS AND LIMITS OF THE BROACHING TECHNIQUE

AT HIGH-CUTTING RATES 67-02 M08-59618
CAMSHAFT GRINDING BY NC 67-03 M08-65565
HOW RELIABLE IS MACHINABILITY DATA 67-03 M08-65566
DIAMOND HONING OF QUENCHED CAST IRON CYLINDER LINERS 67-04 M08-66632
THE USE OF ELECTRODEPOSITED GRINDSTONE FOR HONING 67-04 M08-66663
STUDY ON ELECTROLYTIC MACHINING PROCESS. PT. 7. THE EFFECTS OF THE CHANGE OF WORK MATERIAL ON THE SURFACE FINISH OF PRODUCTS MACHINED BY DIRECT CURRENT 67-05 M08-68903
GALVANIC ELECTRODES FINISH LARGE CAST-TO-SIZE DIES 67-06 M08-70005
DIAMOND TOOLS IMPROVE HONING 67-06 M08-70844
HIGH HP, NEW WHEEL CUT COST ON ROLL GRIND 40 PER CENT 67-06 M08-72028
MACHINING CLOSE TOLERANCE CASTINGS ON A CHUCKING AUTOMATIC 67-07 M08-72986
COMPARATIVE INVESTIGATIONS INTO THE MACHINABILITY OF GRAPHITE-CONTAINING CAST IRON-BASE MATERIALS 67-07 M08-73247
MATERIAL AND TECHNIQUE FACTORS IN THE MACHINING OF IRON CASTINGS. PT. 2. 67-07 M08-74255
WANT FLAT PARTS FASTER. UPGRADE, CUT COSTS WITH GRINDING 67-08 M08-74724
APPLICATIONS AND LIMITS OF BROACHING AT HIGH CUTTING SPEEDS 67-08 M08-74755
WORKABLE IRON-SILICON CAST IRON AS AN ACID-RESISTANT MATERIAL FOR PROCESSING 67-09 M01-77017
VIBRATORY GRINDING AND VIBRATORY POLISHING OF STEEL IN METALLOGRAPHY. PT. 2 67-09 M08-78182
GRINDING IN FOUNDRIES. PT. 1 67-10 M08-78788
STUDY ON HONING. PT. 3. DIAMOND HONING OF CAST IRON 67-10 M08-78850
USE OF CERAMIC CUTTING TOOLS 67-10 M08-78852
THE APPLICABILITY OF THE BINOMIAL LAW TO THE PROCESS OF FRICTION IN THE CUTTING OF METALS 67-10 M08-79108
DIAMOND HONING 67-10 M08-79186
DRILL DESIGN AND APPLICATION REQUIREMENTS FOR OPTIMUM COOLANT-FEEDING TWIST DRILL USAGE 67-10 M08-79504
FOUR RULES FOR INCREASING OUTPUT FROM VERTICAL SPINDLE SURFACE GRINDERS 67-11 M08-80540
THE EFFECT OF THE TITANIUM CARBIDE CONTENT OF CEMENTED WC-TIC CUTTING TOOLS IN THE MACHINING OF STEELS AND CAST IRONS 67-12 M08-81854

CAST IRON, MAGNETIC PROPERTIES
THE MAGNETIC CHARACTERISTICS OF IRON CORE IN FREQUENCY MULTIPLIER 67-02 M15-59082
NONMAGNETIC IRON 67-06 M15-70320

CAST IRON, MECHANICAL PROPERTIES
SILICON.. CARBON RATIO--HOW IT AFFECTS STRENGTH AND SHRINKAGE OF CAST IRON 67-01 M17-57400
TENSILE TESTING OF ALLOYS IN THE MELTING TEMPERATURE RANGE 67-01 M17-57465
INFLUENCE OF STRUCTURE AND SUBSTRUCTURE OF MAGNESIUM CAST IRON ON ITS WEAR RESISTANCE 67-01 M17-57470
CAST IRON AND BRINELL HARDNESS. PT. 1 67-01 M17-58119
STUDIES OF THE QUALITY, RELAXATION AND WEAR RESISTING PROPERTIES OF VANADIUM HIGH-GRADE CAST IRON 67-01 M17-58742
CASTING CRANKSHAFTS IN MAGNESIUM IRON FOR THE K-650 MOTORCYCLE ENGINE 67-02 M06-59175
SOME FACTORS OF THE COMPOSITION AND PROPERTIES OF CUPOLA CAST IRON 67-02 M06-61806
THE SOUNDNESS OF GREY IRONS FOR CAST HYDRAULIC FITTINGS 67-02 M15-61015
RUPTURE OF BRITTLE MATERIALS 67-02 M17-58811
STRENGTH OF ROTATING DISKS 67-02 M17-58812
STRENGTH TESTS ON BRITTLE MATERIALS WITH PARTICULAR REFERENCE TO CAST IRONS 67-02 M17-59714
AUSTENITIC MANGANESE CAST IRON 67-02 M17-61188
INFLUENCE OF ADDING CERIUM ALLOY MM5 ON THE PROPERTIES OF HEAT-RESISTING ALUMINIUM-SILICON CAST IRONS 67-02 M17-61199
EFFECT OF OVERHEATING OF IRON ON WEAR RESISTANCE OF CASTINGS 67-02 M17-61236
DAMPING CAPACITY OF CAST IRON 67-02 M17-61566
THE USE OF LIGHT METAL ALLOYS IN ENGINES OF VEHICLES 67-02 M20-60216
EVALUATION ON THE QUALITY OF FLAKE GRAPHITE CAST IRON 67-03 M17-65843
ANTIFRICTION PROPERTIES AND WEAR RESISTANCE OF BRONZE, PIG IRON AND GRAPHITIC STEEL 67-04 M17-66017
WEAR RESISTANCE AND FRICTION OF QUENCHED AUSTENITIC MANGANESE-CONTAINING CAST IRON 67-04 M17-66455
CAST IRON AND BRINELL HARDNESS. PT. 2 67-04 M17-66661
ALLOY CAST IRON 67-04 M17-66862
CAST IRONS CONTAINING COPPER 67-04 M17-67714
MEEHANITE HS A VERSATILE HEAT RESISTANT MATERIAL 67-04 M20-66244
CHROMIUM IRON ROLLING ROLLS 67-05 M07-69691
STRESS/RUPTURE PROPERTIES OF A LARGE CAST-IRON COMPONENT 67-05 M17-68429
FROM THE CASTING STAGE TO MECHANICS 67-05 M17-68914
FRICTION AND WEAR TESTING UNDER HIGH TEMPERATURE OF CAST AND OTHER METALS 67-05 M17-68953
A METHOD FOR MEASURING THE PLASTICITY AND STRENGTH OF LOW-PLASTICITY MATERIALS 67-05 M17-69614
LEAD IN CAST IRON 67-06 M06-70496
THE CONTROL OF THE CHEMICAL COMPOSITION OF HYPOEUTECTIC CAST IRON MELTS BY THERMAL ANALYSIS 67-06 M06-71188
THE INFLUENCE OF ELASTIC ANISOTROPY ON THE PROPAGATION OF FRACTURE 67-06 M17-70645
DEPENDENCE OF THE COEFFICIENT OF FRICTION AND WEAR RESISTANCE OF COPPER-BEARING MODIFIED CAST IRONS ON MECHANICAL PROPERTIES 67-06 M17-70729
METHOD OF TESTING ALLOYS IN TENSION IN THE SOLIDUS-LIQUIDUS RANGE 67-06 M17-70753
THE INFLUENCE OF THERMAL EXPANSION ON THE FRICTION AND WEAR PROCESS 67-06 M17-71032
CAST IRON FOR TRACTOR ENGINE LINERS 67-06 M17-71395
THE EVALUATION OF CAST IRON AS A STRUCTURAL MATERIAL 67-07 M17-72756
PROPERTIES OF MOTTLED IRON ALLOYED WITH CR, NI AND V FOR MILL ROLLS 67-07 M17-73053
THE BRITTLENESS OF METALLIC MATERIALS UNDER TENSION STRESSES 67-07 M17-73074
CORRELATION BETWEEN HARDNESS AND ULTIMATE TENSILE STRENGTH FOR HIGH-TENSILE MAGNESIUM CAST IRONS --EXCHANGE OF EXPERIENCE-- 67-07 M17-73108
FATIGUE AS A DESIGN CRITERION 67-07 M17-73216
THE EFFECT OF PHOSPHORUS ON THE MECHANICAL PROPERTIES AND WEAR RESISTANCE OF CAST IRON 67-07 M17-73478
THE COMPRESSIVE STRENGTH OF CAST IRON AND STEEL 67-07 M17-74035
FATIGUE STRENGTH AND DAMPING CHARACTERISTICS OF MAGNESIUM IRON FOR MOTORCYCLE CRANKSHAFTS 67-07 M17-74046
THE WEAR RESISTANCE OF CAST IRON 67-07 M17-74268
COPPER AS AN ALLOY IN STEEL AND CAST IRON 67-08 M17-74453
INFLUENCE OF THE STRUCTURE ON THE RESISTANCE OF METAL TO WEAR BY ABRASION 67-08 M17-76008
INFLUENCE OF FRICTION CONDITIONS ON THE LATTICE CONSTANT OF THE GAMMA-PHASE DURING THE WEAR OF AUSTENITIC MANGANESE CAST IRON 67-08 M17-76009
CASTING DESIGN FOR ALLOYED CAST IRONS 67-09 M17-76473
EFFECTS OF COPPER ON THE MECHANICAL PROPERTIES OF IRON 67-09 M17-76804
THE EFFECT OF PHOSPORUS ON THE DAMPING BEHAVIOR OF CAST IRON 67-09 M17-77007
CYCLING TESTS ON GRADE 35 CAST IRON 67-09 M17-77556
THE ELASTIC LIMIT IN CAST IRONS--LIMIT OF ACCOMMODATION AND ROLE OF THE TIME FACTOR 67-09 M17-77668
NEW MATERIALS FOR COMPRESSOR PISTON RINGS 67-09 M17-77956
APPLICATION OF SPECIAL ALLOY CAST IRON CONTAINING AL IN ITALY 67-11 M17-80802
RESISTANCE TO WEAR AND RUNNING IN OF TEMPERED AUSTENITIC MANGANESE CAST IRON 67-11 M17-80996
INFLUENCE OF VACUUM MELTING AND POURING ON THE STRUCTURE AND PROPERTIES OF NI-HARD CAST IRON 67-11 M17-81532
CAUSES OF HAIRLINE CRACKING IN BILAYER CHROMIUM-NICKEL ROLLS 67-11 M17-81663
EFFECT OF THE FORM OF GRAPHITE ON MOLD LIFE 67-12 M06-81984
THERMAL RESISTANCE AND WEAR RESISTANCE OF ROLLING

MILL GUIDES 67-12 M17-81729
COMPARATIVE WEAR TESTS ON BATH-NITRIDED SPECIMENS 67-12 M17-82692

CAST IRON, MELTING
MELTING AND OVERHEATING OF IRON IN A GAS SHAFT FURNACE 67-01 M06-57322
OXYGEN-CONVERTER PROCESS IN FOUNDRIES 67-01 M06-57472
APPLICATIONS OF MULTIPLE REGRESSION ANALYSIS METHOD TO CUPOLA MELTING OPERATION 67-01 M06-57615
MELTING OF CAST IRON WITH NATURAL GAS. THE FLAVEN FURNACE 67-01 M06-58621
NATURAL GAS FOR MELTING CAST IRON 67-02 M04-61688
MODERN IRON MELTING TECHNIQUES AND THEIR APPLICATION 67-03 M06-65003
CONTROLLED-ENVIRONMENT MELTING 67-03 M06-65067
CALCULATING THE BASIC DIMENSIONS OF CUPOLAS AND PARAMETERS OF THEIR OPERATION 67-04 M06-66095
EXPERIENCE WITH LOW-MELTING CUC2 IN CUPOLAS 67-05 M06-68520
STUDY ON THE OPERATION OF A LOW-FREQUENCY ELECTRIC FURNACE 67-05 M06-68952
CORE-TYPE INDUCTION FURNACES IN GRAY CAST IRON FOUNDRIES 67-05 M06-69312
METABOLISM OF THE CUPOLA 67-06 M06-70027
INFLUENCE OF INNER PROFILES OF CUPOLAS ON THE MAIN THERMOPHYSICAL AND METALLURGICAL PARAMETERS OF THE MELTING PROCESS 67-06 M06-70293
EFFECT OF COKE POROSITY ON CARBON CONTENT IN CUPOLA CAST IRON 67-06 M06-70294
OXYGEN CONVERTER MELTING IN FOUNDRIES 67-06 M06-70760
EFFECT OF THE REFRACTORY LINING ON THE PROPERTIES OF CAST IRON 67-06 M06-71187
INDUCTION MELTING IN THE FOUNDRY 67-06 M06-71598
MELTING AND SUPERHEATING IRON IN A GAS CUPOLA 67-07 M06-73044
MEASUREMENTS OF SOLIDIFICATION TIMES ON PLATES AND SPHERES OF DIFFERENT METALS AND THEIR SIGNIFICANCE FOR THE DESIGN OF FEEDER HEADS 67-07 M06-73491
RECENT RESEARCH ON THE INOCULATION OF CAST IRON 67-07 M06-74257
PRODUCING IRON IN THE CUPOLA USING THERMOANTHRACITE 67-08 M04-75189
CUPOLA OPERATING EXPERIENCE IN A PIPE FOUNDRY 67-08 M06-74543
DETERMINATION OF THE LIQUIDUS TEMPERATURE OF CAST IRON ALLOYS 67-08 M06-75102
PRODUCTION OF SYNTHETIC CAST IRONS FROM SWARF 67-09 M06-78073
USING CAST IRON SWARF FOR MELTING IRON IN INDUCTION FURNACES 67-09 M06-78074
INFLUENCE OF CERIUM, NEODYMIUM, PRASEODYMIUM, LANTHANUM AND ALUMINUM ON THE STRUCTURE OF CAST IRON 67-09 M14-77421
OXYGEN, OXIDES, SUPERHEATING AND GRAPHITE NUCLEATION IN CAST IRON 67-10 M01-79291
PRACTICAL EXPERIENCES WITH HOT BLAST CUPOLAS 67-10 M04-79239
INVESTIGATION AND EVALUATION OF CUPOLA OPERATION 67-11 M04-81072
THE PROSPECTIVE DEVELOPMENT DIRECTIONS IN CASTING PRODUCTION. PT. 1 67-11 M06-81073
STANDARDIZED CLOSED CUPOLAS 67-12 M06-81972
ON DECREASING THE CARBON CONTENT IN MAGNESIUM CAST IRON 67-12 M06-81979
EFFECT OF LANTHANUM ON THE FORM OF GRAPHITE IN AUSTENITIC CAST IRON 67-12 M06-81983
CUPOLA MELTING RESERVES 67-12 M06-83029
EFFECT OF AIR AND COKE EXPENDITURES ON CUPOLA MELTING CONDITIONS 67-12 M06-83037

CAST IRON, METAL WORKING
METAL TRANSFER AND BUILD UP IN FRICTION AND CUTTING 67-08 M08-76058

CAST IRON, METALLOGRAPHY
COLOR RADIOGRAPHY, A NEW INDUSTRIAL MATERIAL TESTING METHOD 67-03 M19-65732
HOW TO DIFFERENTIATE BETWEEN IRON CARBIDE AND IRON PHOSPHIDE BY ETCHING 67-07 M13-73258
SUPPLEMENT ON THE ELECTROLYTIC ETCHING OF PRIMARY STRUCTURES 67-08 M13-74943
MICROGRAPHIC PRACTICE 67-10 M13-78855

CAST IRON, MICROSTRUCTURE
RAPID GRAPHITIZING NORMALIZATION OF CASTINGS OF HIGH-STRENGTH CAST IRON IN A FLUID BED 67-01 M10-57319
EFFECT OF GAS BLOWING ON STRUCTURE AND PROPERTIES OF CAST IRON 67-01 M13-57467
EFFECT OF COPPER ON PRIMARY STRUCTURE OF CAST IRON 67-01 M14-57324
ISOTHERMAL TRANSFORMATION OF AUSTENITE IN ANNEALED MAGNESIUM IRON 67-01 M14-57468
ON THE LIMITING CHAIN OF THE GRAPHITIZATION OF WHITE CAST IRON 67-01 M14-57469
PRODUCING NODULAR CAST IRON BY BLOWING MAGNESIUM POWDER INTO THE MELT 67-02 M06-59173
AN INOCULANT FOR CAST IRON 67-02 M06-59652
MANUFACTURE OF SPHEROIDAL GRAPHITE CAST IRON WITH MG AND RARE-EARTH MIXED AGENT 67-02 M06-60754
MECHANISM OF DENODULARIZER ACTION IN MAGNESIUM-TREATED CAST IRON 67-02 M06-61012
ON THE GRAPHITIZATION OF IRON ALLOYS 67-02 M10-60074
TITANIUM IN CAST IRONS 67-02 M13-59094
TYPICAL MICROSTRUCTURES OF CAST METALS 67-02 M13-60202
INFLUENCE OF CERIUM ON THE STRUCTURE OF HYPO-EUTECTIC IRON CASTINGS 67-02 M13-61013
ELECTRONIC PROBE METHOD OF STUDYING THE CERIUM DISTRIBUTION IN IRONS 67-02 M13-61669
HYDROGEN IN HYPEREUTECTIC CAST IRONS 67-02 M14-59092
DISCUSSION OF OBSERVATIONS ON THE ORIENTATION DISTRIBUTION AND GROWTH OF LARGE GRAINS NEAR --110-- --001-- ORIENTATION IN SILICON-IRON STRIP 67-02 M14-59445
THE EFFECT OF NEUTRON IRRADIATION ON THE THERMAL STABILITY OF CEMENTITE IN WHITE CAST IRON 67-02 M14-59909
TRANSPARENT CRYSTAL SIMULATION OF THE DESPHEROIDATION OF THE GRAPHITE PHASE OF CAST IRONS 67-02 M14-61166
ADSORPTION OF GLOBULIZER ELEMENTS ON GRAPHITE CRYSTALS IN CAST IRONS 67-02 M14-61680
PHOTO-DENSITOMETRIC AND STATISTICAL ANALYSIS OF CAST IRON STRUCTURE 67-02 M19-58969
DISTRIBUTION OF Y90 IN CAST IRONS WITH VARIOUS FORMS OF GRAPHITE INCLUSIONS 67-02 M19-61808
OPTIMUM STRUCTURE OF CUPOLA IRON FOR CASTING INGOT MOLDS 67-04 M13-67508
METALLOGRAPHIC ATLAS OF IRON, STEELS AND CAST IRONS. V. 1. FUNDAMENTALS OF METALLOGRAPHY 67-04 M13-67733
THE RELATION BETWEEN THE DRY WEAR OF CAST IRON AND ITS STRUCTURE 67-04 M17-67112
THE MAURER DIAGRAM, ITS ERRORS AND EVOLUTION 67-05 M13-69148
SPHEROID FLOTATION IN CAST IRON WITH SPHEROIDAL GRAPHITE 67-05 M14-68519
EFFECTS OF INOCCULANTS AND ALLOYING ADDITIVES ON THE STRUCTURE OF SPECIAL IRONS INVESTIGATED USING ISOTOPES 67-06 M13-70326
INFLUENCE OF GASSING ON THE STRUCTURE AND PROPERTIES OF CAST IRON 67-06 M13-70755
THE MICROSTRUCTURE OF ZONE MELTED CAST IRON 67-06 M14-70848
SILICON CONTENT OF PIG IRON AS A CRITERION OF THERMAL STATE OF A BLAST FURNACE 67-07 M04-74132
MICROSEGREGATION IN CAST IRON 67-07 M13-73244
INFLUENCE OF COPPER ON THE PRIMARY STRUCTURE OF CAST IRON 67-07 M14-73046
PRODUCTION OF CAST IRON INGOT MOLDS FOR STEELMAKING INDUSTRY 67-08 M04-75547
MECHANISM OF THE EFFECT OF SURFACE-ACTIVE ELEMENTS ON THE FORM OF GRAPHITE IN CAST IRON 67-08 M14-75885
TERNARY CARBIDE EUTECTIC IN FE-C-SI ALLOYS 67-08 M14-75893
SPHEROIDAL GRAPHITE CAST STEEL 67-09 M04-76732
DISTRIBUTION OF Y90 IN CAST IRONS CONTAINING GRAPHITE PARTICLES OF DIFFERENT SHAPES 67-09 M19-78080
MAKING NODULAR IRON BY BLOWING MAGNESIUM POWDER INTO THE MELT 67-10 M06-78882
METALLOGRAPHY OF CAST IRON 67-10 M13-79218
THE USE OF ALLOYED HARD CAST IRON IN INDUSTRY 67-11 M13-81542
MICRODISTRIBUTION OF RARE EARTH ELEMENTS IN CAST IRON 67-12 M06-81973
CRYSTAL STRUCTURE OF GRAPHITE IN CAST IRON BY X-RAY

DIFFRACTION 67-12 M13-82602
CAST IRON, PERMANENT MOLDS
SOME PROPERTIES OF METAL MOLD COATING FOR CAST IRON 67-06 M06-70851
CAST IRON, PHASE TRANSFORMATIONS
EFFECT OF CE AND LA ON EUTECTOID TRANSFORMATION OF AUSTENITE IN CAST IRON 67-02 M14-59184
THE PLASTIC DEFORMATION OF SILICON FERRITE OCCURRING DURING THE MARTENSITIC TRANSFORMATION 67-03 M14-65445
EFFECT OF THERMAL CYCLING ON THE TRANSFORMATION OF AUSTENITE IN MAGNESIUM CAST IRON 67-04 M14-66901
MECHANISM OF THE INFLUENCE OF DIFFERENT ELEMENTS ON THE GRAPHITIZATION OF CAST IRON 67-08 M14-74545
SUPERCOOLING OF MOLTEN CAST IRON DURING EUTECTIC SOLIDIFICATION 67-08 M14-74674
SINGULARITIES OF BAINITIC TRANSFORMATION OF AUSTENITE IN CAST IRONS ALLOYED WITH ALUMINUM 67-08 M14-76034
INFLUENCE OF CE AND LA ON THE EUTECTOID TRANSFORMATION OF AUSTENITE IN CAST IRON 67-10 M14-78893
THE EFFECT OF THE FOUR MOST IMPORTANT ALLOYING ELEMENTS OF CAST IRON 67-11 M14-81384
EVOLUTION DURING TEMPERING AT A SLOWLY RISING TEMPERATURE OF THE MATRIX OF A 2 PER CENT-C IRON ALLOY, PREVIOUSLY SUBJECTED TO A MARTENSITIC QUENCH 67-11 M14-81560
HARDENABILITY OF MAGNESIUM CAST IRON IN AIR COOLING 67-12 M14-81976
THE ROLE OF PRESSURE IN THE FORMATION OF ETCH-RESISTANT LAYERS ON RUBBING SURFACES OF CAST IRON PARTS 67-12 M14-82440
CAST IRON, PHASES /STATE OF MATTER/
ON THE SI3N4 IN CAST IRON 67-01 M13-58254
THE NATURE OF THE EPSILON PHASE IN ALUMINUM CAST IRONS 67-02 M13-59672
THE MAURER DIAGRAM, ITS ERRORS AND ITS EVOLUTION 67-04 M14-67707
THE POSITION OF LEDEBURITE THALWEG IN THE FE-C-SI SYSTEM 67-08 M14-75894
THE FE-C DIAGRAM--INFLUENCE OF SI AND P 67-10 M13-79691
EQUILIBRIUM OF SULFUR WITH MANGANESE, ALUMINUM AND CHROMIUM IN CAST IRON 67-11 M04-81319
CAST IRON, PHYSICAL PROPERTIES
ANNUAL REVIEW OF CAST IRON WITH FLAKE GRAPHITE. PT. 3 67-03 M06-65354
PRESHRINKAGE EXPANSION OF IRON IN SEMICONTINUOUS CAST PIPES 67-07 M15-74048
EFFECT OF TEMPERATURE ON THE RATE OF VAPORIZATION OF MAGNESIUM FROM LIQUID CAST IRON 67-10 M14-79728
A STUDY ON THE VISCOSITY OF MOLTEN IRON 67-11 M15-80942
CALCULATING THE VISCOSITIES OF METAL ALLOYS 67-11 M15-81448
CAST IRON, PIPE
FOUNDRY FOR CENTRIFUGAL CASTING OF WATER PIPES 67-11 M06-80423
TEARING DURING THE CONTINUOUS CASTING OF IRON PIPES 67-12 M04-81881
CAST IRON, PISTON RINGS
PISTON RINGS IN AUTOMOBILE ENGINES 67-05 M20-68913
CAST IRON, POWDER METALLURGY
PREPARATION OF NONPOROUS MATERIAL FROM CAST IRON TURNINGS BY THE METHOD OF DYNAMIC HOT PRESSING 67-02 M09-62207
CAST IRON, REACTIONS /CHEMICAL/
DESULFURIZING IRON WITH MAGNESIUM 67-06 M04-70935
BEHAVIOR OF THE PRODUCTS FROM THE DEOXIDATION OF STEEL WITH SILICON OR MANGANESE. PT. 2. INVESTIGATION INTO BEHAVIOR OF DEOXIDATION PRODUCTS IN IRON AND STEEL 67-06 M14-72281
CAST IRON, REFINING
THE DEOXIDATION WITH TITANIUM IN LIQUID IRON 67-01 M04-58260
REACTION VELOCITIES IN THE BATH OF AN OXYGEN CONVERTER DURING REFINING OF A VANADIUM IRON 67-02 M04-60724
THE STATE OF MAGNESIUM IN LIQUID IRON 67-02 M06-59182
INCREASING THE DEGREE OF IRON SUPERHEATING AND DECREASING THE SULFUR IN CUPOLA MELTING OF THERMOANTHRACITE 67-02 M06-60077
CHANGES IN THE CHEMICAL COMPOSITION OF CAST IRON AFTER TREATING WITH MAGNESIUM AND HOLDING IN THE LADLE 67-02 M06-61185
METALLURGICAL TREATMENT OF HOT METAL BY CONTROLLED BATH MOVEMENT TO FACILITATE THE MIXING EFFECT 67-04 M04-66328
DESULFURIZING BY THE CTIF-VOLIANIK PROCESS 67-06 M04-70670
THE EFFECT OF CA ON CAST IRON MELTS 67-06 M14-70042
THE GYRATORY LADLE, A NEW DESULFURIZING AND CARBURIZING TOOL FOR LIQUID IRON 67-07 M04-73250
TREATING IRON WITH A MIXTURE OF MAGNESIUM SALTS AND REDUCING AGENTS IN A TURBULENT STREAM 67-07 M06-74037
TREATING CAST IRON WITH LIQUID SYNTHETIC SLAG 67-07 M06-74038
FLAKY GRAPHITE CAST IRON AND HYPEREUTECTOID GRAPHITE CAST STEEL REFINED WITH REDUCING SLAG 67-08 M04-74402
EFFECT OF BLOWING WITH MOLECULAR NITROGEN ON THE STRUCTURE AND PROPERTIES OF BLAST FURNACE FOUNDRY CAST IRON 67-09 M04-77870
DESULFURIZING IRON BY BLOWING WITH LIME AND OTHER REAGENTS 67-10 M04-78416
STATE OF MAGNESIUM IN MOLTEN CAST IRON 67-10 M06-78891
PRODUCING A COMMERCIALLY PURE IRON FROM VACUUM-DESULFURIZED CAST IRON. PT. 2 67-11 M04-81652
POROUS PLUG FOR CARBURIZING AND DESULFURIZING MOLTEN FE IN FOUNDRY LADLES 67-11 M06-80387
OXIDATION OF SULFUR IN CAST IRON AND SLAG BY OXYGEN 67-12 M04-81793
DESULPHURIZATION OF PIG IRON BY INJECTING LIME AND OTHER REAGENTS 67-12 M04-83414
CAST IRON, ROLLS
PROPERTIES OF MOTTLED IRON, ALLOYED WITH CR, NI AND V FOR ROLLING ROLLS 67-01 M17-57331
SURFACE FINISHING OF ROLLING MILL ROLLS 67-11 M07-80388
CAST IRON, SHRINKAGE
INFLUENCE OF SULFUR ADDITIONS ON THE SHRINKAGE PROCESS OF CAST IRON 67-01 M06-57193
ASPECTS OF SHRINKAGE PHENOMENA IN CAST IRON 67-02 M15-61193
CAST IRON, SLEEVES
WEAR RESISTANCE OF ENGINE VALVE SEATS 67-04 M06-66425
CAST IRON, SOLIDIFICATION
A QUANTITATIVE APPROACH TO CASTING SOLIDIFICATION--FREEZING OF CAST IRON 67-04 M14-66940
CAST IRON, STRESS ANALYSIS
DETERMINATION OF CASTING STRESS BY X-RAYS 67-01 M17-58257
APPLICATION OF BRITTLE COATING IN DIMENSIONING MACHINES EXPOSED TO COMPLEX LOADING 67-02 M17-59702
CAST IRON, SURFACE PROPERTIES
SURFACE TENSION OF IRON WITH VARIOUS CARBON EQUIVALENTS AND EFFECT OF BISMUTH ADDITION 67-02 M15-61232
SURFACE TENSION OF CAST IRONS WITH DIFFERENT CARBON EQUIVALENTS AND THE INFLUENCE THEREON OF BISMUTH ADDITIONS 67-04 M15-68093
ANTIFRICTION PROPERTIES OF SOME STRUCTURAL MATERIALS 67-05 M17-69015
CAST IRON, THERMAL ANALYSIS
TEMPERATURE MEASUREMENT IN FOUNDRY 67-11 M06-80529
CAST IRON, THERMAL PROPERTIES
THERMAL SHOCK RESISTANCE OF CAST IRONS 67-04 M17-67260
HEAT CONDUCTIVITY, STRENGTH AND COMPOSITION OF SOME CAST IRON MATERIALS 67-10 M15-79783
CAST IRON, THERMODYNAMICS
THERMODYNAMIC STUDY ON CAST IRON INOCULATION 67-01 M06-57284
INFLUENCE OF OXYGEN ON CARBON SOLUBILITY IN MOLTEN IRON 67-02 M14-61192
EFFECT OF NITROGEN ON SURFACE TENSION OF LIQUID IRON AND ITS ALLOYS 67-04 M15-66607
CAST IRON, WEAR
EFFECT OF COOLANTS ON THE MICROSTRUCTURE OF THE SURFACE LAYERS OF CAST-IRON RUBBING PAIRS 67-01 M17-57999
USE OF RADIOACTIVE TRACERS IN STUDYING WEAR OF GRINDING BALLS MADE OF NI-HARD CHROMIUM NICKEL

CAST IRON

CAST IRON 67-01 M17-58371
TESTING BUILT-UP METAL FOR WEAR IN A STREAM OF DUST-FILLED GAS AT HIGH TEMPERATURES 67-04 M17-67092
INVESTIGATION OF PHASE AND STRUCTURAL CHANGES IN THE SURFACE LAYERS OF FRICTION PAIR MATERIALS. PT. 1. METALLOGRAPHIC ANALYSIS AT OPTICAL AND SUPEROPTICAL MAGNIFICATIONS 67-06 M17-70768
AUSTENITIC IRON 67-08 M17-74877
WEAR RESISTING CAST IRONS 67-09 M17-76375
WEAR OF METALS IN SUCROSE SOLUTIONS 67-09 M17-76438
TESTING OF DEPOSITED METAL FOR WEAR IN A HIGH-TEMPERATURE GAS FLOW CONTAINING DUST 67-09 M17-78072

CAST IRON, WELDING
STATE AND DEVELOPMENT OF WELDING MATERIAL MANUFACTURE 67-01 M11-57145
WELDING TECHNOLOGY USED TO REPAIR PASSENGER AND FREIGHT CARS OF THE GERMAN FEDERAL RAILWAYS 67-04 M11-66914
THE VIBRO-ARC DEPOSITION OF METAL ON CAST IRON COMPONENTS IN AN AIR CURRENT 67-11 M11-81584

CASTABILITY
TRENDS IN CONTINUOUS CASTING 67-03 M04-65483
SOME PROBLEMS ON THE TURNING OF ALUMINUM CAST ALLOY 67-04 M08-67120
NICKEL BASE HYDROCHLORIC ACID CORROSION RESISTANT ALLOY CASTING 67-04 M18-67114
NEW ZINC ALLOY FOR PROTOTYPES 67-07 M17-73960
PROPERTIES OF COMMERCIAL CASTING ALLOYS 67-08 M06-74809
COLD WELDS AS THE PRINCIPAL CAUSE OF REJECTS IN THE CASTING OF STAINLESS STEELS AND THEIR ELIMINATION THROUGH A TECHNICALLY PLANNED CASTING PROGRAM 67-09 M06-77003
EFFECT OF MOLTEN STEEL OXIDATION ON ITS CASTING PROPERTIES 67-10 M06-78886
AL CASTING ALLOYS FOR HIGH-TEMPERATURE 67-11 M17-81547

CASTABILITY, ALLOYING EFFECTS
EFFECTS OF ALLOYING ELEMENTS AND IMPURITIES ON PROPERTIES 67-08 M01-74807
CURRENT QUESTIONS ON THE RESEARCH AND USES OF THE CASTING PROPERTIES OF ALLOYS 67-08 M06-75103
EFFECT OF MN, SI AND TI ON THE PROPERTIES OF KH8M4D4 STEEL 67-12 M06-83032

CASTABILITY, COMPOSITION EFFECTS
PROPERTIES AND APPLICATION OF ALUMINIUM BRONZE 67-08 M01-75032

CASTAIGN MICROPROBES
SEE ELECTRON PROBES

CASTING
SEE ALSO BOTTOM CASTING
CENTRIFUGAL CASTING
CERAMIC CASTING
CHILL CASTING
CONTINUOUS CASTING
DIE CASTING
DIRECT CHILL CASTING
DRY SAND CASTING
FULL MOLD PROCESS CASTING
GREEN SAND CASTING
INGOT CASTING
INVESTMENT CASTING
PERMANENT MOLD CASTING
PLASTER CASTING
PRESSURE CASTING
SAND CASTING
SHAW PROCESS CASTING
SHELL MOLD CASTING
SLAB CASTING
TOP CASTING
VACUUM CASTING
VIBRATIONAL CASTING
ALUMINUM WORKS MODERNIZATION 67-01 M01-58529
EXTRACTION METALLURGY 67-01 M01-58663
AUGMENTED NATURAL CONVECTION AND EQUIAXED GRAIN STRUCTURE IN CASTING 67-01 M06-57427
EFFECT OF NITROGEN ON CHILLED GREY CAST IRON 67-01 M06-57498
ON THE TECHNIQUES FOR MANUFACTURING OF LARGE STEEL CASTINGS AND SOME PROBLEMS CONCERNING THEM 67-01 M06-58258
HOW TO SELECT COPPER ALLOYS FOR CASTING 67-01 M06-58554
EVALUATION OF STAINLESS STEEL CASTING ALLOYS FOR CRYOGENIC SERVICE IN THE 80-INCH LIQUID-HYDROGEN BUBBLE CHAMBER 67-01 M11-57622
BORON FILAMENT GRADUATES TO PRODUCTION 67-01 M14-57224
USE OF MIXTURES TO PROMOTE BOILING IN CASTING 67-02 M04-59534
NORMS OF ALUMINUM CONSUMPTION FOR DEOXIDIZING CARBON STEEL 67-02 M04-61230
MELTING AND WORKING GOLD ALLOYS 67-02 M06-58915
DIRECTIONAL SOLIDIFICATION OF STEEL CASTINGS 67-02 M06-60201
COMPOSITE POURING TUBE 67-02 M06-60934
ACCUMULATION OF OXIDES IN ALUMINUM DURING MELTING AND CASTING 67-02 M06-61238
SINGULARITIES OF CASTING TITANIUM-ALLOYED STEELS 67-02 M06-61869
TECHNOLOGY INVOLVED IN THE CASTING OF VAD23 ALLOY INGOTS 67-04 M03-67936
STANDARD ALUMINIUM CONSUMPTIONS FOR THE DEOXIDATION OF CARBON STEEL 67-04 M04-68091
TEEMING STEELS ALLOYED WITH TITANIUM 67-04 M06-67688
TECHNOLOGICAL VALUES OF DETERMINING RISER DIMENSIONS FOR IRON-CARBON-SILICON ALLOYS AND ESPECIALLY FOR CAST IRON. PT. 1-2 67-05 M06-68737
INOCULATING CAST IRON WITH MAGNESIUM SALTS 67-05 M06-69045
WELDED CASTING MOLDS OF COPPER 67-05 M06-69071
THE STATUS OF METAL-FORMING TECHNOLOGY AND CASTING IN 1966 67-05 M06-69142
A NEW LARGE-SCALE INSTALLATION FOR THE MELTING AND CASTING OF OFHC COPPER IN A YUGOSLAV COPPER MILL 67-05 M06-69310
SPECIAL FABRICATION TECHNIQUES 67-06 M01-70093
FUSION CHARACTERISTICS OF INSERTS AND CHAPLETS 67-06 M06-70554
PRINCIPLES OF METAL CASTING 67-06 M06-71233
NEW DEVELOPMENTS IN TITANIUM CASTINGS 67-06 M06-71676
METALLURGICAL PRINCIPLES OF FEEDING NONFERROUS CASTINGS 67-06 M06-71896
IMPALCOS 6 MILLION POUND MODERNIZATION SCHEME AT WAUNARLWYDD 67-06 M20-71299
MANUFACTURE OF LARGE CARBON STEEL CASTINGS FROM BASIC OXYGEN LD FURNACE STEEL 67-07 M06-72438
ALUMINUM CASTING 67-07 M06-72743
MECHANIZED MALLEABLE IRON FOUNDRY 67-07 M06-73090
PROBLEMS INVOLVED IN THE MANUFACTURE OF HEAVY STEEL CASTINGS WITH LIMITED FACILITIES 67-07 M06-73122
PROCESS CONTROL ON THE POURING FLOOR 67-07 M06-73613
ELECTROMAGNETIC CHARGING OF MOLTEN METAL TO IMPROVE THE PURITY OF CASTINGS 67-07 M06-74043
FABRICATION OF CHROMIUM-BASE ALLOYS 67-08 M01-74515
PRODUCTION OF FUSED REFRACTORIES IN THE EXPERIMENTAL SHOP OF A REFRACTORY WORKS 67-08 M05-75595
CUPOLA OPERATING EXPERIENCE IN A PIPE FOUNDRY 67-08 M06-74543
DESIGN FACTORS FOR CASTINGS 67-08 M06-74818
CASTING 67-08 M06-74839
THERMAL EXPANSION OF MOLD MATERIAL AS ONE OF THE CAUSES OF PRESHRINKAGE EXPANSION OF CASTINGS 67-08 M06-75191
SEALING PROPERTIES OF AL9 A1 ALLOY CASTINGS 67-08 M06-75194
QUALITY CONTROL ON STEEL USING LINEAR SHRINKAGE CURVES 67-08 M06-76084
PRODUCTION OF SPEED RING CASTINGS 67-08 M06-76198
CASTING HIGH-STRENGTH MOLDS FROM MAGNESIUM-INOCULATED IRON 67-08 M06-76273
THE MICROSTRUCTURE OF CAST FOILS OF ALUMINUM OBSERVED BY TRANSMISSION ELECTRON MICROSCOPY 67-08 M13-75142
CASTING INGOTS INTO CAPPED MOLDS AND SATISFACTORY OUTPUT IN ROLLING 67-09 M04-76715
THE RELATIONSHIP BETWEEN BILLET MELTING TECHNIQUE AND SURFACE QUALITY IN INGOT CASTING WITH A 200-KW MULTICHAMBER, ELECTRON BEAM FURNACE 67-09 M04-77219
BEHAVIOR OF RAW INGOT SOLIDIFICATION BY VACUUM ARC MELTING 67-09 M06-77221
WHY CASTINGS 67-09 M06-77978

PLASTER-MOLD ALUMINUM CASTINGS 67-09 M06-77979
CERAMIC MOLDING BY THE UNICAST PROCESS 67-09 M06-77980
THE CREEP-RUPTURE STRENGTH OF MOLYBDENUM COMPOSITE CAST WITH NIMONIC 90 ALLOY 67-09 M17-77263
CAST MAGNESIUM-TREATED IRON CRANKSHAFTS FOR K-650 MOTORCYCLE ENGINES 67-10 M06-78884
PRODUCING LONG-LIFE INGOT MOULDS MADE OF IRON INOCULATED WITH MAGNESIUM 67-10 M06-79266
THE GATING AND RISERING OF COUNTER-GRAVITY POURED MAGNESIUM-LITHIUM CASTINGS 67-10 M06-79295
THE SELECTION OF ALUMINUM CAST ALLOYS 67-10 M06-79389
SOME PROBLEMS IN THE MELTING AND CASTING OF URANIUM AND ITS ALLOYS 67-10 M06-79564
THE T-NOCK CASTING PROCESS 67-10 M06-79719
MELTING AND CASTING 67-11 M03-80476
AL-SI CASTING ALLOYS WITH HIGH-SI CONTENT 67-11 M06-80459
CASTING CONVEYOR ROLLERS AT THE RATE OF 600 PER DAY 67-11 M06-80567
THE PROSPECTIVE DEVELOPMENT DIRECTIONS IN CASTING PRODUCTION. PT. 1 67-11 M06-81073
THE CAST CONNECTING ROD 67-11 M06-81190
PROBLEMS OF PRODUCING ALUMINUM ALLOYS CASTINGS 67-11 M06-81501
STUDY OF THE OPERATION OF MIXERS FOR CASTING ALUMINUM AND ALUMINUM ALLOY INGOTS 67-11 M06-81502
STUDY OF THE FLOW OF METALS IN RUNNERS 67-11 M06-81535
RESEARCH ON THE BEHAVIOR OF CAST METALS IN MOLD CAVITIES BY THE COLOR METHOD 67-11 M06-81696
USING KARAGANDA WORKS PIG IRONS FOR GREY AND NODULAR IRON CASTINGS PRODUCTION 67-12 M06-81879
INFLUENCE OF CHARGE MATERIALS ON THE FLUIDITY OF GREY IRON 67-12 M06-81880
RESEARCH ON THE BEHAVIOR OF CAST METALS IN MOLD CAVITIES BY COLOR METHOD 67-12 M06-82449
TECHNOLOGY OF PRODUCING CASTINGS IN V2ZH AND VKM ALLOYS 67-12 M06-82611
CAST TURBINE BLADES 67-12 M06-82612
THE DESIGN OF FEEDER CONFIGURATION IN THE CASTING OF LOW-ALLOY CR-MO STEEL PLATES 67-12 M06-82938
SPRAY GATING SYSTEMS 67-12 M06-83044
A STUDY ON THE AIR GAP DURING SOLIDIFICATION OF ALUMINUM ALLOY IN THE METALLIC MOLD 67-12 M06-83111
MELTING AND DEGASSING OF ALUMINUM-MAGNESIUM AND ALUMINUM-SILICON CASTING ALLOYS 67-12 M06-83206
MEASURING THE SURFACE TEMPERATURE OF A METAL MOLD 67-12 M19-82616

CASTING, AUTOMATION
NEW MALLEABLE IRON FOUNDRY--AUTOMATIC MOULDING AND POURING 67-12 M06-83161

CASTING, DESIGN
CASTING DESIGN FOR ALLOYED CAST IRONS 67-09 M17-76473

CASTING, QUALITY CONTROL
CONTROL OF PRODUCT QUALITY IN THE WROUGHT ALUMINUM INDUSTRY 67-07 M19-74009

CASTING ALLOYS
ALUMINUM D612 --NATURAL AGING CASTING ALLOY-- 67-02 M01-59492
HYDROALIUM ALLOY FOR DIE-CASTING USE 67-02 M06-60945
GOLD IN DENTISTRY 67-02 M17-58911
THE USE OF LIGHT METAL ALLOYS IN ENGINES OF VEHICLES 67-02 M20-60216
ZINC ALLOYS FOR DIECASTING 67-03 M06-65683
ALUMINUM A357 --SAND AND PERMANENT MOLD CASTING ALLOY-- 67-04 M01-68070
APEX 12 AND 12 PM --CASTING ALLOY-- 67-07 M01-73155
INFLUENCE OF CERIUM ON CERTAIN PROPERTIES OF CAST PEARLITIC STEEL 67-07 M06-73048

CASTING ALLOYS, CASTING
DIE CASTING OF METALS, INJECTION MOLDING OF ORGANIC MATERIALS 67-02 M06-60611
DEVELOPMENTS IN LOW PRESSURE DIE CASTING 67-05 M06-68505
SURFACE COLOR OF THE MOLD INFLUENCES SCABBING 67-06 M06-71675

CASTING ALLOYS, CHEMICAL ANALYSIS
HOMOGENEITY CHARACTERIZATION OF NBS SPECTROMETRIC STANDARDS. PT. 2. CARTRIDGE BRASS AND LOW-ALLOY STEEL 67-06 M19-71433

CASTING ALLOYS, COATING
WEAR RESISTANCE PROPERTIES OF HARD ANODIZED COATINGS. PT. 1 AND 2 67-05 M12-68896

CASTING ALLOYS, DEFECTS
SHRINKHOLE PHENOMENA AND TEXTURE FORMATION OF EUTECTIC AL-SI ALLOYS 67-05 M06-68515

CASTING ALLOYS, FIBER METALLURGY
CERAMIC WHISKERS REINFORCE ALUMINUM CASTINGS 67-05 M06-69886

CASTING ALLOYS, HEAT TREATMENT
ALUMINUM ALLOYS AND THEIR TREATMENT 67-04 M01-67708
INFLUENCE OF SOLIDIFICATION RATE ON GRAIN REFINEMENT OF CAST STRUCTURE OF 22 PER CENT SI-AL ALLOY WITH OR WITHOUT PHOSPHORUS ADDITIONS 67-05 M06-68875
INFLUENCE OF PHOSPHORUS ON GRAIN REFINEMENT OF CAST STRUCTURE OF 22 PER CENT SI-AL ALLOY 67-05 M06-68876
INFLUENCE OF MELTING CONDITION AND ADDITION TEMPERATURE ON GRAIN REFINEMENT OF CAST STRUCTURE OF 22 PER CENT SI-AL ALLOY WITH PHOSPHORUS ADDITION 67-05 M06-68877
CONSIDERATIONS ON THE BEHAVIOR OF PHOSPHORUS FOR THE GRAIN REFINEMENT OF 22 PER CENT SI-AL ALLOY 67-05 M06-68878

CASTING ALLOYS, MACHINING
ON THE TURN-MACHINABILITY OF ALUSIL 67-02 M08-59119
ON THE TURNING MACHINABILITY OF ALUMINUM-MAGNESIUM CAST ALLOYS 67-02 M08-59991
INNOVATIONS IN N/C MACHINING PRODUCE BETTER PARTS AT LESS COST 67-03 M08-65363
MACHINING OF CAST HIGH ALLOYS. PT. 2. CARBIDE TOOLING 67-08 M08-76190

CASTING ALLOYS, MECHANICAL PROPERTIES
THE PLASTIC BEHAVIOR OF PB-SB ALLOYS 67-01 M17-58623
DEVELOPMENT OF IMPROVED HIGH STRENGTH STEEL CASTING ALLOYS USING MATHEMATICAL MODELS 67-01 M17-58680
INFLUENCE OF COPPER ON AL-SI-CU SYSTEM DIE CASTING ALLOYS 67-02 M17-59728
MEDIUM AND HIGH STRENGTH ALUMINUM ALLOYS AND THEIR BEHAVIOR AT LOW TEMPERATURE 67-02 M17-60609
THREE NEW CASTING ALLOYS COMBINE STRENGTH, ECONOMY 67-04 M01-66737
EFFECT OF CHEMICAL COMPOSITION, MELTING CONDITIONS, TEEMING AND SOLIDIFICATION ON THE MECHANICAL PROPERTIES OF NEW ALUMINUM-MAGNESIUM ALLOYS 67-04 M17-66413
STUDY OF WEAR OF CASTING AL ALLOYS 67-04 M17-68064
STUDY ON THE WEAR OF CASTING AL ALLOYS. PT. 1. ON THE WEAR CHARACTERISTICS 67-05 M17-68888
STUDY ON THE WEAR OF CASTING AL ALLOYS. PT. 2. ON THE FRICTIONAL CHARACTERISTICS 67-05 M17-68889
DEVELOPMENT OF NIOBIUM-CONTAINING COBALT-BASE AIR-CASTING ALLOYS FOR HIGH TEMPERATURES 67-05 M17-69564
MAGNESIUM CASTING ALLOYS FOR AIRCRAFT STRUCTURES 67-06 M01-70671
MAGNESIUM MSR-B --HEAT TREATABLE CASTING ALLOY-- 67-08 M01-75684
ALUMINUM D132 PERMANENT MOLD CASTING ALLOY 67-08 M01-75688
A NEW CREEP RESISTANT ZINC DIE CASTING ALLOY 67-08 M17-75494

CASTING ALLOYS, MICROSTRUCTURE
THE MICROSTRUCTURE OF UNIDIRECTIONALLY SOLIDIFIED AL-CUAL2 EUTECTIC AND AL-SI EUTECTIC ALLOYS 67-05 M13-69853
DETERMINATION OF THE LINEAR PREPEARLITIC SHRINKAGE AS A METHOD FOR THE ESTIMATION OF CASTING QUALITY 67-08 M06-75104

CASTING ALLOYS, SPECIFICATIONS
BA.LM8 --ALUMINUM CASTING ALLOY-- 67-04 M01-66321

CASTING ALLOYS, VALVES
NEW VALVE TYPES FOR INDUSTRIAL APPLICATIONS. BALL VALVES 67-02 M20-59829

CASTING DEFECTS
SEE ALSO BLOWHOLES
PIPES /DEFECTS/
SCABS /DEFECTS/
IMPROVING THE QUALITY OF CAST IRON PIPES, CAST BY THE SEMICONTINUOUS METHOD

67-01 M06-57464
DIE EROSION IN PRESSURE DIE CASTING
67-01 M06-58231
DISCUSSION OF THE SCABBING TENDENCIES OF GREEN SAND
67-01 M06-58480
MAJOR SEGREGATION OF ZN-AL ALLOYS
67-01 M06-58626
INVESTIGATION OF HOT TEARING AND MECHANISM OF CRACK FORMATION IN CAST STEEL. CRACK SENSITIVITY TEST PIECE 67-01 M17-57300
ON THE CONTROL OF SOLID SKIN IN A RIMMED STEEL INGOT 67-02 M04-58843
THE CONTINUOUS CASTING OF SMALL CROSS SECTIONS
67-02 M04-59133
THE APPLICATION OF NONSTATIONARY ELECTROMAGNETIC FIELDS IN THE CONTINUOUS CASTING OF STEEL
67-02 M04-59135
EFFECT OF THE HEIGHT AND TEMPERATURE OF THE MOLD ON THE DEPTH OF BLISTERS BENEATH THE CRUST IN RIMMING STEEL INGOTS 67-02 M04-59569
IMPROVED QUALITY INGOT SURFACE FROM EI654 STEEL
67-02 M04-59593
FILLING OF THIN SECTIONS CAST IN METAL DIES
67-02 M06-60525
PREVENTION OF SHRINKAGE DEFECTS IN THICK SECTIONS AND HOT SPOTS OF HIGH-DUTY IRON CASTINGS
67-02 M06-61010
SINGULARITIES OF CASTING TITANIUM-ALLOYED STEELS
67-02 M06-61869
FORMATION OF GAPS BETWEEN THE CASTING AND THE METAL MOULD 67-02 M06-61915
THE PRODUCTION OF TUBES FROM CONTINUOUSLY CAST MATERIAL 67-02 M07-59134
USE OF FLUX ADDITIONS ON LOW-CARBON ALUMINUM-KILLED STEEL 67-03 M04-65540
HOT TEARS IN WHITE IRON CASTINGS. PT. 1
67-03 M06-65834
CONTROLLED SOLIDIFICATION 67-03 M14-65337
DEFECTS ENCOUNTERED ON PRECISION CASTINGS
67-04 M06-66184
CALCULATING THE GATING-FEEDING SYSTEMS FOR THIN-WALLED ELONGATED CASTINGS 67-04 M06-66416
FORMATION AND ELIMINATION OF BURN-ON ON CARBON STEEL CASTINGS 67-04 M06-66419
MECHANISM OF THE FORMATION OF BURN-ON ON STEEL CASTINGS IN SILICATE-BONDED MOLDS
67-04 M06-66421
GASES IN FE-C ALLOYS 67-04 M06-66639
METALLURGY OF FEEDING GREY CAST IRON
67-04 M06-66890
CORRECTION OF CASTING DEFECTS BY STATISTICAL EXPERIMENTS 67-04 M06-66891
HOT TEARS IN WHITE CAST IRON. PT. 2
67-04 M06-67499
TEEMING STEELS ALLOYED WITH TITANIUM
67-04 M06-67688
THE RELATIONSHIP BETWEEN THE QUALITY OF LARGE CASTINGS AND STEEL MELTING AND POURING TECHNIQUES 67-04 M17-67951
FORMATION OF CRYSTAL STRUCTURES IN PURE AL
67-05 M06-68887
STUDIES ON THE HOT TEARING OF AL-CU ALLOYS
67-05 M06-68949
A FUNDAMENTAL STUDY ON THE CASTING CRACK OF LIGHT METAL ALLOYS. RELATION BETWEEN THE CASTING CONTRACTION STRESS AND THE HOT STRENGTH
67-05 M17-68898
IMPROVING THE QUALITY OF INGOT SURFACES BY TREATING THE METAL IN MOLDS WITH GRAPHITE
67-06 M04-71249
UPHILL CASTING, INSURING UNIFORM SUSPENSION OF INGOTS IN MOLDS 67-06 M04-71250
THE CONTINUOUS CASTING OF SMALL SECTIONS
67-06 M04-71566
EFFECT OF CONTINUOUS CASTING CONDITIONS UPON QUALITY OF AUSTENITIC STAINLESS STEEL CAST BILLETS. PT. 2. STUDY OF CONTINUOUS CASTING OF STEEL 67-06 M04-72216
HOT TEARS IN WHITE IRON. PT. 3 67-06 M06-70589
CHOICE OF SHEET INGOT CASTING SPEEDS FOR KILLED STEEL 67-06 M06-70738
IMPROVING THE QUALITY OF SEMICONTINUOUSLY CAST IRON PIPES 67-06 M06-70752
ON THE FEEDING CHARACTERISTIC OF ALUMINUM ALLOYS. PT. 1 67-06 M06-71213
GAS POROSITY IN STEEL CASTINGS 67-06 M06-72188
METALLURGICAL STUDY ON CRACKS--THE CASE OF MALLEABLE CAST IRONS 67-06 M17-72154
SURFACE DEFECTS OF A STAINLESS STEEL INGOT
67-07 M04-74145
DIRECT CHILL CASTING OF ALUMINIUM AND ITS APPLICATION AT COMALCO ALUMINIUM --BELL BAY-- LIMITED 67-07 M06-73611
OBSERVATIONS ON AN EFFECT OF THE CHARGE MIXTURE ON THE STRUCTURE AND MECHANICAL PROPERTIES OF BLACK-HEART MALLEABLE CAST IRON
67-07 M17-73243
IMPROVING INGOT SURFACES BY TREATING METAL WITH GRAPHITE IN THE INGOT MOULD 67-08 M04-75718
BOTTOM CASTING ENSURING THAT INGOTS HANG UNIFORMLY IN THE INGOT MOULD 67-08 M04-75719
NOTES ON SOME FAULTS IN SEMIFINISHED PRODUCTS. RATIONAL PROCEDURES FOR ASSESSING THE NATURE OF FAULTS IN FINISHED PRODUCTS 67-08 M04-75796
INFLUENCE OF THE POURING TEMPERATURE ON THE SURFACE FINISH OF STEEL CASTINGS POURED IN SILICATE-BONDED MOULDS 67-08 M06-74540
INFLUENCES OF MOLDING SAND, MOLD HARDNESS AND POURING TEMPERATURE UPON HOT TEARING IN WHITE CAST IRON 67-08 M06-74619
COPPER BASE CASTING ALLOYS. HOT TEARING AND MODE OF SOLIDIFICATION. PT. 1. HOT TEARING OF COPPER BASE ALLOYS 67-08 M06-75033
A GATING SYSTEM FOR CHILL CASTING A TRACTOR PISTON IN A110V ALLOY 67-08 M06-75198
MELTING TREATMENT IN THE GRAVITY DIECASTING FOUNDRY
67-08 M06-75640
THE CRYSTALLIZATION PRESSURE FACTOR IN THE PRESHRINKAGE EXPANSION OF CASTINGS
67-08 M14-74550
SURFACE QUALITY OF A COLD ROLLED SHEET OF RIMMED STEEL 67-09 M04-77628
COLD WELDS AS THE PRINCIPAL CAUSE OF REJECTS IN THE CASTING OF STAINLESS STEELS AND THEIR ELIMINATION THROUGH A TECHNICALLY PLANNED CASTING PROGRAM
67-09 M06-77003
SHELL MOLDING OF BRASS 67-09 M06-77232
CONTROLLED SOLIDIFICATION. PT. 4
67-09 M06-77842
EFFECT OF THE NATURE OF ALLOY SOLIDIFICATION ON BLOWHOLE FORMATION IN CASTINGS
67-09 M06-77869
DYNAMIC AND STATIC X-RAY INSPECTION
67-09 M19-76532
IDENTIFICATION AND CONTROL OF DEFECTS IN STEEL INGOTS USED FOR RAILROAD TRACKS
67-09 M19-78025
THE ROLLING OF TUBES AND SHAPES FROM CONTINUOUSLY CAST STEELS 67-10 M04-78653
PRESSURE-TIGHT SAND MOLD CASTINGS OF CU AND CU ALLOYS 67-10 M06-78647
MODERN MACHINING METHODS.. A CHALLENGE TO FOUNDRY TECHNIQUES 67-10 M06-79241
FOUNDRY DEFECTS--A MEMORANDUM 67-10 M06-79692
FATIGUE STRENGTH OF CARBON STEEL CASTINGS
67-10 M17-79878
SURFACE DEFECTS IN MALLEABLE CAST IRONS
67-10 M19-78726
BASIC FACTS ON INSPECTION OF CASTINGS
67-10 M19-79050
SEGREGATION AND INCLUSIONS IN ZIRCONIUM-CONTAINING MAGNESIUM CASTING ALLOYS 67-10 M19-79751
INFLUENCE OF CERTAIN PRODUCTION ELEMENTS ON THE QUALITY OF SEMIKILLED STEEL BILLETS
67-11 M04-80853
GAS AND POROSITY IN CASTINGS. PT. 1
67-11 M06-80930
HOT TEARING OF ALUMINUM ALLOYS 67-11 M06-81189
EXOGENOUS INCLUSIONS IN STEEL CASTINGS
67-11 M06-81536
POSSIBILITY OF REPAIRING STEEL CASTINGS BY WELDING
67-11 M11-80570
CAST AND WELDED STEEL STRUCTURES
67-11 M20-81130
GASES IN ALUMINUM ALLOY DIE-CASTINGS
67-12 M06-81905
RESIDUAL STRESS IN CAST IRON TUBES
67-12 M06-82087
INTERACTION OF LIQUID TIN BRONZE WITH MOLD MOISTURE
67-12 M06-82092
ZONAL SEGREGATION IN CENTRIGUGAL CASTING OF OKH10N20T2 STEEL 67-12 M06-83031
PROBLEMS OF POROSITY IN CAST STEEL. PT. 3
67-12 M06-83086
GAS AND POROSITY IN CASTINGS. PT. 2
67-12 M06-83351
SURFACE DEFECTS OF STEEL CASTINGS
67-12 M06-83571

PROBLEMS OF POROSITY IN CAST STEEL. PT. 2
67-12 M06-83588
PROBLEMS OF POROSITY IN CAST STEEL
67-12 M06-83589
TITANIUM CASTINGS FOR AIRFRAME STRUCTURAL APPLICATIONS 67-12 M20-82453

CASTING DEFECTS, ALLOYING EFFECTS
INFLUENCE OF CARBON, SILICON AND BORON ON HOT TEARING IN WHITE CAST IRON 67-05 M06-68951

CASTING DEFECTS, COMPOSITION EFFECTS
FUNDAMENTAL PROBLEMS AND THE PRACTICE OF THE CONTINUOUS CASTING OF WIDE SLABS
67-02 M04-59136
TRANSVERSE AND LONGITUDINAL CRACKS IN BASIC OPENHEARTH BLOOMS 67-02 M04-60828
ON THE VOLUME CHANGE IN WHITE IRON CASTINGS
67-05 M06-69890

CASTING DEFECTS, COOLING EFFECTS
SHRINKHOLE PHENOMENA AND TEXTURE FORMATION OF EUTECTIC AL-SI ALLOYS 67-05 M06-68515
DIMENSIONAL DISTORTION IN STEEL CASTINGS
67-08 M06-74618
STUDY ON PRODUCTION OF SOUND INGOT BY ACCELERATED SOLIDIFICATION 67-08 M06-75153

CASTING DEFECTS, IMPURITY EFFECTS
INCLUSIONS IN CONTINUOUSLY CAST CARBON STEELS
67-07 M04-73081

CASTING DEFECTS, STRESS EFFECTS
STABILIZING THE GEOMETRICAL SHAPE OF CASTINGS BY THE STATIC OVERLOADING METHOD
67-04 M06-66422
EFFECT OF CONTINUOUS CASTING CONDITIONS ON THE PROPERTIES OF 1 PER CENT C, 1.5 PER CENT CR BEARING STEEL. PT. 3. STUDY OF CONTINUOUS CASTING OF STEEL 67-07 M17-72554

CASTING MACHINES
AUTOMATIC GRAVITY DIECASTING MACHINE FOR ALUMINIUM TRACTOR-ENGINE PISTONS 67-02 M06-61910
ANNUAL REVIEW OF DIE CASTING --3RD CONTINUATION--, PT. 2. MELTING, CASTING, TECHNOLOGY
67-03 M06-65206
CONTINUOUS CASTING 67-04 M03-67910
WISCONSIN STEELS 8-STRAND CONTINUOUS CASTING INSTALLATION 67-04 M04-68104
AMERICAN IRON AND STEEL INSTITUTE REGIONAL TECHNICAL MEETING. EXPERIENCES WITH CONTINUOUS CASTING OF BILLETS 67-04 M04-68107
DEVELOPMENTS IN LOW PRESSURE DIE CASTING
67-05 M06-68505
PUSH-BUTTON GRAVITY DIECASTING 67-05 M06-69795
COMPUTERIZED CALCULATION OF OPERATING CONDITIONS IN CONTINUOUS CASTING MACHINES 67-06 M04-71330
METALLURGY OF CONTINUOUS CASTING
67-06 M04-72025
CONTINUOUS CASTING OF VERY LARGE SECTIONS AT SHELTON 67-06 M04-72026
AUTOMATIC METAL TRANSPORT TO AL DIECASTING MACHINES
67-06 M06-71095
THE CONTINUOUS CASTING PLANT FOR ALLOY STEELS AT BAILDON, POLAND, WORKS 67-07 M04-73246
CASTING OF FERROMANGANESE ON A CASTING MACHINE
67-07 M04-73262
EFFECT OF THE ARRANGEMENT OF THE RADIAL CRYSTALLIZER IN A CONTINUOUS CASTING UNIT ON THE QUALITY OF THE BILLETS 67-07 M04-73777
EFFECT OF POSITION OF A CURVED MOLD IN A CONTINUOUS CASTING MACHINE ON BILLET QUALITY
67-09 M04-76540
HIGHLY-AUTOMATED FOUNDRY FOR CAST IRON CONDUIT FITTINGS 67-11 M06-81694

CASTING MACHINES, AUTOMATION
DIE CASTING AND AUTOMATION 67-01 M06-57239

CASTING MACHINES, WELDING
FRACTURED MACHINERY RESTORED BY CYCLIC WELDING
67-06 M11-72315

CASTINGS
SEE ALSO CENTRIFUGAL CASTINGS
CERAMIC MOLD CASTINGS
CONTINUOUS CAST SHAPES
DIE CASTINGS
FOUNDRY INGOTS
INGOTS
INVESTMENT CASTINGS
PERMANENT MOLD CASTINGS
PIGS
PRESSURE CASTINGS
SAND CASTINGS
SHELL MOLD CASTINGS
COMPLEX MICROALLOYING OF CUPOLA MALLEABLE IRON FOR SMALL-SCALE PRODUCTION 67-01 M06-57325
CASTINGS WITH INSERTS 67-01 M06-57974
HIGH-STRENGTH WELDABLE 13 PER CENT CHROMIUM CASTING STEEL 67-01 M17-58619
DESIGNING FOR HIGH-STRENGTH STEEL CASTINGS. PT. 1. PRODUCTION AND DESIGN GUIDE LINES
67-03 M06-65202
ENGINEERED CASTINGS 67-03 M06-65496
ANNUAL REVIEW OF UNALLOYED AND ALLOY STEEL CASTINGS. PT. 3 67-05 M07-68522
SOME ASPECTS OF PRODUCTION OF ALLOY STEELS AND STAINLESS STEEL CASTINGS 67-06 M04-71323
OPERATION OF THE BASIC CUPOLA FOR THE PRODUCTION OF LIGHT NODULAR IRON CASTINGS 1956-1966
67-06 M06-69953
APPLICATION OF MALLEABLE IRON CASTINGS
67-09 M01-77983

CASTINGS, AGING /METALLURGICAL/
BASIC FACTORS IN THE VIBRATION AGING OF IRON CASTINGS 67-04 M17-67948

CASTINGS, CASTING DEFECTS
HOT TEARS IN WHITE IRON. PT. 4 67-06 M06-71008

CASTINGS, CLEANING
THE POWER ECONOMICS OF THE USE OF SAND BLASTING NOZZLES IN FOUNDRIES 67-04 M06-67255
MODERN CASTINGS CLEANING EQUIPMENT
67-04 M12-67330
SHOT-BLASTING PLANT FOR MACHINE TOOL CASTINGS
67-07 M12-73336
GRINDING AT HIGH CIRCUMFERENTIAL RATES
67-10 M12-79798
GRINDING IN THE CASTING PLANT 67-10 M12-79800
LEACHING PRECISION CASTINGS 67-11 M12-81362
PROGRESS IN CLEANING VARIOUS METALS
67-12 M12-82381

CASTINGS, COATING
SURFACE ALLOYING OF STEEL CASTINGS
67-05 M12-69604
POLISH ON ZINC IS PRESERVABLE 67-06 M12-70659
VITREOUS COATINGS ON CASTINGS 67-08 M12-75550

CASTINGS, CORROSION
IRON ALLOYS WITH ALUMINUM AND COPPER. PT. 1. EFFECT OF COPPER ON THE HIGH-TEMPERATURE CORROSION RESISTANCE OF CAST STEELS AND HIGH-ALUMINUM CAST IRONS 67-02 M18-58984
EFFECT OF HEAT TREATMENTS INVOLVING HEATING THROUGH THE CRITICAL TEMPERATURE RANGE ON THE SUBSEQUENT SCALING AND GROWTH PROPERTIES OF FLAKE GRAPHITE CAST IRONS AT 400 AND 500 C 67-02 M18-60526
INFLUENCE OF THE CHEMICAL COMPOSITION OF DEOXIDIZER ON THE STRENGTH OF CAST STEEL IN CORROSIVE MEDIUM 67-02 M18-60970
ATMOSPHERIC CORROSION OF CARBON AND LOW ALLOY CAST STEELS 67-11 M18-81517

CASTINGS, CRYOGENIC PROPERTIES
IMPROVING THE COLD SHORTNESS OF STEEL CASTINGS
67-04 M17-67509

CASTINGS, CUTTING
USE OF POWDER CUTTING FOR THE FETTLING OF STEEL CASTINGS AND THE REMOVAL OF RUNNERS
67-02 M11-60016

CASTINGS, DEGASSING
DEGASSING ABILITY OF FREON 12 --CCL2F2-- AND NITROGEN-FREON 12 GAS MIXTURE. PT. 2. STUDIES ON DEGASSING MEDIUM FOR ALUMINUM
67-06 M06-71214

CASTINGS, DENSITY
GMS WAY TO DENSER DIECASTINGS 67-03 M06-65684

CASTINGS, DESIGN
DESIGN RECOMMENDATIONS FOR CASTINGS
67-01 M06-58358
DESIGNING WITH ALUMINIUM 67-01 M06-58665
DESIGNING ALUMINUM CASTINGS. PT. 3. GENERAL DESIGN SUGGESTIONS FOR ALUMINUM CASTINGS
67-05 M06-69888

CASTINGS, DIMENSIONAL STABILITY
VIBRATION TREATMENT AND DIMENSIONAL STABILIZATION OF CASTINGS 67-02 M17-61017
ON CAUSES OF THE CHANGE OF DIAMETER OF SMALL SPHERICAL CASTINGS DURING SOLIDIFICATION IN SAND MOLD 67-04 M06-67115

CASTINGS, DIMENSIONAL TOLERANCES
DIMENSIONAL ACCURACY OF CASTINGS
67-06 M19-70885

CASTINGS, FLANGES
CASTING IRON FLANGES OF FINNED TUBES INTO ANODIZED CHILL MOLDS 67-02 M06-61810

CASTINGS, FRACTURES
ON THE FORMATION OF CONCHOIDAL FRACTURE IN CAST

CASTINGS

STEEL 67-07 M17-72718
CASTINGS, FUEL ELEMENTS
PRODUCTION OF TUBES OF METALLIC URANIUM 67-01 M06-57166
CASTINGS, HEAT TREATMENT
LARGE STEEL CASTINGS HEAT TREATED IN SELF-GENERATING ATMOSPHERE FURNACE 67-01 M10-58448
NEW HEAT TREATMENT OF 35GL MANGANESE STEEL CASTINGS 67-02 M10-60860
HEAT TREATING STEEL IN SELF-GENERATING ATMOSPHERE FURNACES 67-04 M10-67328
HEAT TREATMENT OF CAST IRON SURFACES 67-05 M10-69345
CONTROLLED ANNEALING OF MALLEABLE IRON CASTINGS IN ELEVATOR-TYPE ELECTRIC FURNACE 67-05 M10-69549
STUDY OF THE FEASIBILITY OF REDUCING RESIDUAL STRESSES IN CASTINGS 67-06 M10-70297
ATMOSPHERES FOR MODERN HEAT TREATING--USING THEM IN PRODUCTION 67-06 M10-70719
HEAT TREATMENT OF STRUCTURAL STEELS BY HARDENING AND TEMPERING 67-08 M10-74750
NEW TECHNIQUE OF HEAT TREATMENT OF CASTINGS OF 35GL STEEL 67-08 M10-76118
GRAIN REFINEMENT IN STEEL CASTINGS 67-09 M06-76725
HEAT TREATING ATMOSPHERES FOR DUCTILE IRON 67-09 M10-77394
INFLUENCE OF THE HOLDING AT QUENCHING TEMPERATURE ON MECHANICAL PROPERTIES OF G13L STEEL 67-09 M10-77405
EFFECT OF THE THERMAL RESISTANCE OF FOUNDRY MOLDS ON THE STRUCTURE AND MECHANICAL PROPERTIES OF CASTINGS IN HYPEREUTECTOID STEEL 67-10 M06-79331
CONTROLLED COOLING AND HEAT TREATMENT OF MASSIVE STEEL CASTINGS IN THE MOLD 67-11 M10-80573
VIBRATION AGING OF IRON CASTINGS 67-12 M06-82083
CONDITIONS OF VIBROAGING OF MACHINE PARTS MADE OF CAST IRON 67-12 M10-81775
INVESTIGATION OF WARPAGE IN CAST IRON MACHINE STANDS 67-12 M10-81907
ANNEALING MALLEABLE IRON CHILL CASTINGS 67-12 M10-81985
HEAT TREATING MAGNESIUM CAST IRON WITH HIGH-FREQUENCY HEATING 67-12 M10-82621
CASTINGS, HEATING
OPTIMUM CONDITIONS FOR ELECTRIC ARC HEATING OF COPPER ALLOY INGOT AND CASTING HEADS 67-09 M10-77133
CASTINGS, IMPREGNATION
IMPREGNATING POROUS ALUMINUM ALLOY CASTINGS 67-01 M06-57463
IMPREGNATION OF POROUS ALUMINIUM ALLOY CASTINGS 67-06 M06-70751
CASTINGS, INOCULATION
MECHANISM OF DENODULARIZER ACTION IN MAGNESIUM-TREATED CAST IRON 67-02 M06-61012
INFLUENCE OF CALCIUM METAL ON THE STRUCTURE AND PROPERTIES OF CAST HIGH-ALLOY CR-NI STEELS 67-02 M15-61018
CASTINGS, MACHINING
CONTINUOUS CAST BRONZES FOR SCREW MACHINING 67-02 M08-60247
IN FOUNDRY GRINDING, HOW FAST IS TOO FAST 67-06 M08-70819
CASTINGS, MAGNETIC PROPERTIES
APPLICATION OF ANTIMAGNETIC CASTINGS IN SPACE RESEARCH 67-10 M15-79690
CASTINGS, MECHANICAL PROPERTIES
HIGH ALLOY CENTRIFUGAL CASTINGS IN CRITICAL APPLICATIONS 67-01 M06-58450
PEARLITIC MALLEABLE FOR WEAR RESISTANCE PAR EXCELLENCE 67-01 M17-57237
INVESTIGATION OF HOT TEARING AND MECHANISM OF CRACK FORMATION IN CAST STEEL. CRACK SENSITIVITY TEST PIECE 67-01 M17-57300
DEVELOPMENT OF MATHEMATICAL MODELS WHICH PREDICT THE MECHANICAL PROPERTIES OF HIGH ALLOY, ULTRA-HIGH STRENGTH STEEL CASTINGS 67-01 M17-58479
STATIC AND DYNAMIC STRENGTH AND HARDNESS CONTROL OF LARGE FORGINGS AND STEEL CASTINGS 67-01 M17-58719
CASTING CRANKSHAFTS IN MAGNESIUM IRON FOR THE K-650 MOTORCYCLE ENGINE 67-02 M06-59175
PROSPECTS FOR USING CAST CYLINDERS IN DRILLING HAMMERS 67-02 M06-59176
IMPROVING THE STRENGTH AND WEAR RESISTANCE OF CAM SHAFTS MADE OF NODULAR IRON 67-02 M06-59183
CENTRIFUGAL CASTING OF THIN-WALLED STEEL CYLINDERS 67-02 M06-62002
RESIDUAL STRESSES IN CAST BODIES 67-02 M17-60212
EFFECT OF OXYGEN INJECTION ON THE GRAPHITIZATION AND PROPERTIES OF MALLEABLE CAST IRON 67-02 M17-61913
DESIGNING WITH HIGH-STRENGTH STEEL CASTINGS. PT. 3. PROPERTIES AND PROCESSING 67-03 M17-65323
INFLUENCE OF SOME DEFECTS IN STEELS UPON THE FATIGUE STRENGTH 67-03 M17-65824
EFFECT OF METAL QUALITY ON THE PROCESS OF RISERING FROM CAST IRON 67-04 M06-66096
EQUIPMENT AND PRODUCTION TECHNOLOGY OF THIN-WALLED CASTINGS OF NONFERROUS ALLOYS 67-04 M06-67503
CHANGES IN THE MECHANICAL PROPERTIES OF BRONZE DEPENDING ON THE CASTING METHOD 67-04 M06-67507
RAISING THE QUALITY OF CAST STEEL 67-04 M17-67944
COMPARING THE PROPERTIES AND STRUCTURE OF GRAY IRON IN CASTINGS AND SPECIMENS 67-05 M06-69040
EFFECT OF HEAT TREATMENT ON STRUCTURAL PROPERTIES OF CR18NI9TI STEEL FOR CASTINGS 67-05 M17-69252
ALUMINUM CASTINGS AS STRONG AS FORGINGS 67-06 M01-70676
FORMATION OF RESIDUAL STRESSES IN CASTINGS 67-06 M06-70292
HOT-CRACKING SUSCEPTIBILITY OF CAST METALS 67-06 M06-71192
EFFECT OF MICROPOROSITY ON THE TENSILE PROPERTIES OF QE22A ALLOY 67-06 M08-70674
NEW STEEL FOR HEAT RESISTANT CASTINGS 67-06 M17-70333
THE PROPERTIES OF CAST 25 PER CENT CHROMIUM-20 PER CENT NICKEL AUSTENITIC STEELS IN RELATION TO THEIR USE AT ELEVATED TEMPERATURES 67-06 M17-70531
INFLUENCE OF METALLURGICAL DEFECT SIZE ON THE FATIGUE PROPERTIES OF CAST STEEL 67-06 M17-70822
GRAY IRON CASTINGS FOR MAXIMUM MACHINABILITY 67-06 M17-70856
INOCULATION OF GRAY CAST IRON. PT. 1 67-06 M17-70857
WEAR-RESISTANT CYLINDER SLEEVES 67-07 M06-74051
EFFECT OF BORON ON STRUCTURE AND PROPERTIES OF 35GL STEEL 67-07 M17-74042
FATIGUE STRENGTH AND DAMPING CHARACTERISTICS OF MAGNESIUM IRON FOR MOTORCYCLE CRANKSHAFTS 67-07 M17-74046
PROPERTIES OF 20 PER CENT-CHROMIUM STEEL, PRODUCED IN FURNACES WITH ACID AND BASIC LINING 67-08 M06-75200
CENTRIFUGAL CASTING OF THIN-WALLED STEEL RINGS 67-08 M06-76085
PROBLEMS ASSOCIATED WITH USE OF COPPER-ALLOY CASTINGS IN MARINE SERVICE 67-08 M17-74901
INFLUENCE OF WALL THICKNESS ON PRIMARY STRUCTURE AND MECHANICAL PROPERTIES OF UNALLOYED AND 235 ALLOYED STEEL CASTINGS 67-08 M17-75030
DETERMINING THE STRENGTH AND PLASTICITY OF NODULAR IRON IN CRANKSHAFT CASTINGS BY THEIR HARDNESS 67-08 M17-75199
STUDY ON HIGH-STRENGTH CASTING AL-SI-MG-ZN ALLOYS. PT. 1 67-08 M17-75357
NITROGEN-ALLOYED HEAT AND SCALE-RESISTANT STEEL CASTINGS. PT. 1 67-09 M17-76521
NOTCH TOUGHNESS OF SOME ALUMINUM ALLOY CASTINGS AT CRYOGENIC TEMPERATURES 67-09 M17-77304
PROSPECTS FOR THE USE OF CAST CYLINDERS IN DRILLING HAMMERS 67-10 M06-78885
IMPROVING THE STRENGTH AND WEAR RESISTANCE OF NODULAR CAST IRON CAMSHAFTS 67-10 M06-78892
CONTROLLED SOLIDFICATION 67-10 M06-79693
EFFECT OF VARIATIONS IN COMPOSITION AND THERMAL TREATMENT ON CAST NICKEL-RICH ALLOY MC. 102 67-10 M17-79031
FATIGUE STRENGTH OF CARBON STEEL CASTINGS 67-10 M17-79878
17 PER CENT NICKEL-CAST MARAGING STEEL ACCEPTED BY INDUSTRY 67-11 M01-81534
MECHANICAL CHARACTERISTICS OF SOME CAST CU ALLOYS

AT VERY LOW TEMPERATURES 67-11 M17-80200
IMPROVING THE PROPERTIES OF ELECTRIC STEEL FOR CASTINGS 67-12 M04-81722
EFFECT OF CHLORIDE SALTS OF ALKALI AND ALKALI-EARTH ELEMENTS ON THE PROPERTIES OF 15KH1M1FL STEEL 67-12 M04-83028
MANUFACTURE OF COMPLICATED PARTS FROM A ZINC ALLOY BY THE PRESSURE CASTING METHOD 67-12 M06-81753
USING KARAGANDA WORKS PIG IRONS FOR GREY AND NODULAR IRON CASTINGS PRODUCTION 67-12 M06-81879
CASTING COPPER ALLOYS INTO SHELL MOLDS OF METALLIC SAND 67-12 M06-81982
EFFECT OF THE FORM OF GRAPHITE ON MOLD LIFE 67-12 M06-81984
COMPARATIVE EFFECTIVENESS OF BORON-CONTAINING INOCULANTS 67-12 M06-81988
EFFECT OF TIN ON THE STRUCTURE AND PROPERTIES OF GRAY CAST IRON 67-12 M06-82098
EFFECT OF AL7-4 MELT PURITY ON QUALITY OF CASTINGS 67-12 M06-82613
PROTECTIVE MICROALLOYING OF ALUMINUM BRONZE 67-12 M06-82618
EFFECT OF CASTING WALL THICKNESS ON THE STRUCTURE OF ANTIMONOUS CAST IRONS 67-12 M06-82622
VANADIUM STEEL FOR CASTINGS 67-12 M06-83017
CASTING PROPERTIES OF STAINLESS LOW-MAGNETIC HIGH-STRENGTH STEEL 67-12 M06-83027
EFFECT OF MN, SI AND TI ON THE PROPERTIES OF KH8M4D4 STEEL 67-12 M06-83032
ADHESION OF STEELS IN THE PRODUCTION OF BIMETALLIC CASTINGS 67-12 M06-83038
STRESS AND STRAIN RATE DURING SOLIDIFICATION OF SPHERE CASTINGS 67-12 M06-83569
HEAT TREATMENT OF CAST HIGH CARBON MULTIALLOYED ALLOY 67-12 M10-81720
PLASTIC STRAINS IN MALLEABLE CAST IRON CASTINGS 67-12 M17-81723
CALCULATING TEMPERATURE STRESSES IN PLATE-SHAPED CAST IRON CASTINGS 67-12 M17-81724
NICKEL ALLOY STEEL CASTINGS 67-12 M17-81806
DETERMINATION OF TENSILE STRENGTH AND FATIGUE LIMIT OF GRAY CAST IRON 67-12 M17-82392
SILICEOUS FERRITIC MALLEABLE CAST IRON 67-12 M17-82619
FACTORS OF THE ANTIFRICTION PROPERTIES OF GRAPHITIZED STEEL 67-12 M17-83034
HIGH-ALLOYED CAST STEELS. THE PRESENT STATE AND DEVELOPMENT TRENDS 67-12 M17-83288

CASTINGS, METAL WORKING
RECTIFICATION OF STEEL CASTINGS BY LOCALIZED HEATING 67-07 M06-73049

CASTINGS, METALLOGRAPHY
FORMATION OF CHROMIUM-ALLOYED LAYERS ON CASTINGS 67-02 M06-61225
COLOR RADIOGRAPHY, A NEW INDUSTRIAL MATERIAL TESTING METHOD 67-03 M19-65732

CASTINGS, MICROSTRUCTURE
AUGMENTED NATURAL CONVECTION AND EQUIAXED GRAIN STRUCTURE IN CASTING 67-01 M06-57427
CASTING OF HIGH SPEED STEELS ENRICHED WITH VANADIUM, TITANIUM, COBALT AND CARBON 67-02 M06-58970
ZONE SEGREGATION IN SHAPED CASTINGS 67-02 M06-60078
EFFECT OF COPPER IN HEAVY-SECTION NODULAR-IRON CASTINGS 67-02 M06-61700
TYPICAL MICROSTRUCTURES OF CAST METALS 67-02 M13-60202
CONTROLLED SOLIDIFICATION 67-03 M14-65337
STUDY OF THE PRODUCTION OF PEARLITIC MALLEABLE IRON 67-04 M06-66097
USE OF INTERNAL COOLERS IN PRODUCTION OF STEEL CASTINGS 67-04 M06-67502
INFLUENCE OF BARIUM ALLOY ON STABILITY OF INOCULATION EFFECT 67-04 M06-67506
ELECTRON-MICROSCOPE INVESTIGATION INTO THE PRIMARY STRUCTURES OF CHILLED IRONS 67-04 M13-67947
MINIMIZING THE AMOUNT OF SCALE AND NONMETALLIC INCLUSIONS IN CASTINGS OF 18-9 TI STEEL 67-07 M06-73015
MICROSTRUCTURE STANDARDS FOR MALLEABLE IRON 67-07 M13-73615
THE DETERMINING FACTOR OF THE FORMATION OF SPHEROIDAL GRAPHITE IN MALLEABLE IRON 67-07 M14-74045
THE FORMATION OF SILUMIN MICROSTRUCTURE 67-12 M06-83040

CASTINGS, NONDESTRUCTIVE TESTING
PROSPECTUS FOR NDT IN THE SATURN AND ADVANCED SPACE FLIGHT PROGRAMS 67-02 M19-60917
RECOMMENDED PRACTICE FOR THE APPLICATION OF PENETRANT TESTING 67-05 M19-68423
MATERIAL TESTING IN CASTING TECHNOLOGY 67-08 M19-74754
QUALITY CONTROL OF CAST STEEL BY NONDESTRUCTIVE TESTING METHODS, ESPECIALLY BY ULTRASOUND 67-09 M19-77198
BASIC FACTS ON INSPECTION OF CASTINGS 67-10 M19-79050
ULTRASONICS CUT COST TO INSPECT STEEL CASTINGS 67-11 M19-80523
TITANIUM CASTINGS FOR AIRFRAME STRUCTURAL APPLICATIONS 67-12 M20-82453

CASTINGS, OXIDATION
DARK SPOTS ON STAINLESS STEEL INVESTMENT CASTINGS 67-12 M06-82617

CASTINGS, PHASE TRANSFORMATIONS
RESIDUAL BORON AS AN ALLOYING ELEMENT DURING THE INITIATION OF CENTERS OF GRAPHITIZATION IN WHITE CAST IRON CASTINGS 67-09 M06-76984
FACTORS GOVERNING THE FORMATION OF A PEARLITE FRINGE IN MALLEABLE CAST IRON 67-09 M14-76986
INVESTIGATION OF THE LIQUID-SOLID PHASE TRANSFORMATION 67-09 M14-77005

CASTINGS, PHYSICAL PROPERTIES
INVESTIGATION OF CENTRAL POROSITY IN CONTINUOUS-CAST SQUARE AND SLAB SECTIONS 67-07 M04-73018
LINEAR SHRINKAGE OF MALLEABLE IRON CASTINGS 67-12 M06-82620

CASTINGS, POROSITY
POROUS ALUMINUM INGOTS 67-06 M03-70916

CASTINGS, QUALITY CONTROL
QUALITY CONTROL OF STEEL USING LINEAR SHRINKAGE CURVES 67-02 M06-62001
ACCURACY OF MALLEABLE IRON CASTINGS 67-06 M06-70759
QUALITY CONTROL ON STEEL USING LINEAR SHRINKAGE CURVES 67-08 M06-76084
FLUX LINKAGE METHOD ACCURATELY MEASURES FERRITE IN STAINLESS CASTINGS 67-11 M19-81195
THE CRITERIA OF QUALITY IN GRAY IRON CASTINGS 67-12 M19-83223

CASTINGS, REFINING
POROUS PLUG DESULFURIZING 67-10 M04-79289

CASTINGS, SEALING
SEALING OF CASTINGS 67-01 M06-58357

CASTINGS, SOLIDIFICATION
ELIMINATION OF CHILLING IN THINWALLED MAGNESIUM-TREATED IRON CASTINGS 67-02 M06-61007
PREVENTION OF SHRINKAGE DEFECTS IN THICK SECTIONS AND HOT SPOTS OF HIGH-DUTY IRON CASTINGS 67-02 M06-61010
SOLIDIFICATION OF SEMI-CONTINUOUS CAST IRON PIPES 67-02 M06-61907

CASTINGS, STEEL MAKING
EFFECT OF RARE-EARTH ELEMENTS ON THE PROPERTIES OF MEDIUM-CARBON STEEL 67-06 M04-70181

CASTINGS, STRAIGHTENING
STRAIGHTENING STEEL CASTINGS BY THE LOCAL HEATING METHOD 67-01 M06-57327

CASTINGS, SURFACE FINISHING
PROGRESS IN THE UTILIZATION OF GRINDING-WHEELS IN THE FOUNDRY 67-02 M08-59093
ABRASIVE BLASTING--NEW EQUIPMENT MEANS NEW APPLICATIONS 67-02 M12-59015
SOME VIEWS CONCERNING CLEANING OF CASTINGS BY GRINDING 67-05 M12-68455
BURNSIDE STEEL MARKS A HALF CENTURY OF PROGRESS 67-06 M08-70588

CASTINGS, SURFACE PROPERTIES
DISCUSSION OF THE SCABBING TENDENCIES OF GREEN SAND 67-01 M06-58480
INFLUENCE OF THE POURING TEMPERATURE ON THE SURFACE FINISH OF STEEL CASTINGS POURED IN SILICATE-BONDED MOULDS 67-08 M06-74540

CASTINGS, THERMAL PROPERTIES
INVESTMENT CAST BLADES WITHSTAND 1900 F 67-10 M20-79779
INITIAL HEAT EXCHANGE OF METAL AND MOLD 67-12 M06-83035

CASTINGS, TRACTORS
IMPROVING THE QUALITY OF CATERPILLAR CHAIN LINK CASTINGS 67-01 M06-57332

CASTINGS

CASTINGS, VALVES
THE USE OF SPHEROIDAL GRAPHITE CAST IRON IN THE PRODUCTION OF MEDIUM-PRESSURE GATE VALVES 67-04 M17-67067
CASTINGS, WEAR
WEAR CONSIDERATIONS IN DESIGN 67-06 M17-70698
CASTINGS, WELDING
CRACK WELDINGS OF 13 PER CENT CR STEEL CASTINGS 67-01 M11-57240
WELDING UP CRACKS IN CASTINGS MADE OF A STEEL CONTAINING 13 PER CENT CHROMIUM 67-02 M11-61039
WHY WELD CAST IRON 67-03 M11-65176
THE RECLAMATION OF WORN WHEELS BY AUTOMATIC SUBMERGED-ARC WELDING 67-05 M12-69428
CAST IRON AND STEEL 67-06 M11-71574
SOME OBSERVATIONS ON THE WELDING OF MIXED FABRICATIONS 67-07 M11-73612
NEW SINGLE-PASS WELDING METHOD NOW AVAILABLE 67-08 M11-74653
POSSIBILITY OF REPAIRING STEEL CASTINGS BY WELDING 67-11 M11-80570
CAST AND WELDED STEEL STRUCTURES 67-11 M20-81130
BURNING-IN OF TIN-BRONZE CASTINGS 67-12 M11-83572
CASTINGS, X RAY ANALYSIS
X-RAY INSPECTION OF MATERIALS. PT. 5 67-06 M19-72135
CATALYSIS
CATALYTIC ACTIVITY OF STAINLESS STEEL TUBES 67-08 M14-76294
CATALYSTS
DEVELOPMENTS IN ORGANOMETALLICS 67-01 M01-58551
INVESTIGATION OF LEACHING ALUMINUM-NICKEL ALLOYS FOR THE PREPARATION OF SKELETAL CATALYSTS 67-04 M13-67844
PLATINUM METAL ALLOYS IN ELECTROCATALYSIS. A FURTHER EVALUATION OF RELATIVE ACTIVITIES 67-05 M15-69288
PLATINUM METAL ALLOYS IN ELECTROCATALYSIS 67-05 M15-69717
PRECIOUS METALS--GLAMOUR PUTS ON A HARD HAT 67-06 M01-70485
CATALYSTS, POWDER METALLURGY
STRENGTH CHARACTERISTICS OF POROUS MATERIALS OF REFRACTORY COMPOUNDS 67-04 M17-67343
CATALYSTS, REACTIONS /CHEMICAL/
SUPPORTED PLATINUM METAL CATALYSTS--THEIR SELECTION AND METHODS OF USE IN INDUSTRIAL PROCESSES 67-07 M14-72876
CATALYTIC CRACKING
THE PRODUCTION OF CITY GAS BY THE OXIDIZING CATALYTIC CRACKING OF PETROLEUM HYDROCARBONS 67-05 M17-69353
CATAPHORESIS
SEE ELECTROPHORESIS
CATHODE RAY POLAROGRAPHS
SEE POLARIMETERS
CATHODE SPUTTERING
DEPOSITION OF TANTALUM, TANTALUM OXIDE, AND TANTALUM NITRIDE WITH CONTROLLED ELECTRICAL CHARACTERISTICS 67-01 M12-57107
PREPARATION AND PROPERTIES OF SPUTTERED BISMUTH OXIDE FILMS 67-06 M12-71045
PREPARATION OF THIN SECTIONS BY ION BOMBARDMENT FOR TRANSMISSION ELECTRON MICROSCOPY 67-06 M13-70833
DETECTION OF THE STRUCTURE OF SINTERED MATERIALS OF THE ME-MEO SYSTEM BY IONIC BOMBARDMENT 67-06 M13-70966
BIAS SPUTTERING OF MOLYBDENUM FILMS 67-08 M12-75042
IMPACT ACTIVATED SORPTION AS A MEANS FOR GAS INCORPORATION IN SPUTTERED THIN FILMS 67-08 M14-75162
THIN-FILM HAFNIUM-HAFIUM OXIDE CAPACITORS FOR HIGH TEMPERATURE OPERATION 67-08 M14-75163
CDXHG1-XTE FILMS BY CATHODIC SPUTTERING 67-09 M12-76629
GROWTH OF TI AND TIO2 THIN FILMS OBTAINED BY CATHODIC SPUTTERING 67-09 M12-77211
CATHODES
CATHODIC POLARIZATION OF METALS AND ALLOYS AND ITS APPLICATION TO THE NUCLEAR INDUSTRY 67-03 M18-65852
FUNDAMENTAL STUDY OF THE APPLICABILITY OF CARBIDES TO THE CONSTRUCTION OF HIGH-POWER TUBES 67-07 M20-73836
CATHODES, COATING
COATING OF MOLYBDENUM WITH TITANIUM IN MOLTEN SALT ELECTROLYTE 67-07 M12-73658
CATHODES, ELECTRICAL PROPERTIES
COMPUTER CALCULATION OF THE THERMAL AND ELECTRICAL PHENOMENA IN THE CATHODES OF ALUMINUM ELECTROLYTIC CELLS 67-12 M15-82756
CATHODIC COATING /PROCESS/
ELECTRODEPOSITION OF SOME METALS FROM TETRAMETHYLUREA 67-03 M12-65809
INTERNAL STRESS IN ELECTRODEPOSITS. PT. 3 67-08 M12-74613
STUDY OF THE PHENOMENON OF LEVELING OF THE METAL SURFACE 67-10 M12-78858
CATHODIC COATINGS /OXIDE/
SEE OXIDE COATINGS
CATHODIC POLARIZATION
SEE POLARIZATION /ELECTRODES/
CATHODIC PROTECTION
CATHODIC PROTECTION., TECHNIQUE OF CORROSION CONTROL 67-01 M18-58109
ALUMINIUM AS SACRIFICIAL ANODE FOR CATHODIC PROTECTION. PT. 3. BEHAVIOUR IN ENVIRONMENT BASED ON CALCIUM HYDROXIDE 67-01 M18-58733
CORROSION OF FOUNDATION STEEL PILING AND ITS CATHODIC PROTECTION 67-02 M18-59144
APPLICABILITY OF CATHODIC PROTECTION TO MARINE STRUCTURES 67-02 M18-59484
MARINE ANODES.. THE OLD AND NEW CATHODIC PROTECTION FOR OFFSHORE STRUCTURES 67-04 M18-66314
OFFSHORE MAINTENANCE PROGRAM--CORROSION PROTECTION VITAL IN GULF OF MEXICO 67-04 M18-66315
THE AEI/MORGAN CATHODIC PROTECTION SYSTEM FOR NAVAL VESSELS 67-05 M18-68502
PREVENTION OF CORROSION IN PAPERMAKING MACHINES. CATHODIC POLARIZATION WITH PLATINUM-TITANIUM ANODES 67-05 M18-69418
CORROSION AND PROTECTION METHODS FOR ALUMINUM SHEATH OF COMMUNICATION CABLES 67-05 M18-69830
STUDIES IN THE CORROSION OF ALUMINIUM BRONZE IN SALT WATER 67-06 M18-70231
DOES CATHODIC PROTECTION CAUSE INTERNAL CORROSION 67-06 M18-70895
EFFECTS OF MUTUAL INTERFERENCE. OIL WELL CASING CATHODIC PROTECTION SYSTEMS 67-06 M18-71227
OIL FIELD BRINE VESSELS. CATHODIC PROTECTION FOR BRINE HANDLING EQUIPMENT 67-06 M18-71228
CONTRIBUTION TO THE INVESTIGATION OF CERTAIN VARIABLES THAT AFFECT THE CATHODIC PROTECTION OF STEEL 67-06 M18-71815
SACRIFICIAL ZINC RIBBON ANODES--CATHODIC PROTECTION WITH RIBBON TYPE ZINC ANODES 67-06 M18-72334
THE EVALUATION OF CORROSION PROBLEMS. PT. 2 67-07 M18-72822
ELECTROCHEMICAL INVESTIGATION OF STRESS CORROSION CRACKING AND ITS PRACTICAL APPLICATION 67-07 M18-73696
SOME PRACTICAL EXPERIENCE IN THE INHIBITION OF CATHODIC CORROSION 67-07 M18-73892
EFFECTIVENESS OF CATHODIC PROTECTION OF CONDENSER WATER BOXES 67-08 M18-75548
INTERFERENCE ON CONCRETE PIPE. TESTS CONDUCTED ON PRESTRESSED REINFORCED PIPE 67-08 M18-75745
ZINC ANODES FOR CORROSION PROTECTION OF DOMESTIC HOT WATER STORAGE TANKS 67-09 M18-77667
CATHODIC PROTECTION--METHOD OF CORROSION CONTROL. PT. 1 67-10 M18-78768
THE COMPATIBILITY OF PAINTS WITH CATHODIC PROTECTION 67-10 M18-79296
THE EVALUATION OF CORROSION PROBLEMS. PT. 3 67-10 M18-79297
SOME NOTES ON CURRENT DISTRIBUTION IN CATHODIC PROTECTION SYSTEMS 67-10 M18-79429
PITTING CORROSION AND ITS PREVENTION ON COATED UNDERGROUND PIPELINES 67-10 M18-79562
PRESENT-DAY PROBLEMS OF INHIBITION 67-10 M18-79927
SOME OBSERVATIONS ON CATHODIC PROTECTION OF SUBMARINE PIPELINES. PT. 2 67-11 M18-80485
CORROSION AND METHODS OF PROTECTING THE ALUMINUM CASING BY COMMUNICATION CABLES 67-12 M18-82264
NICOTIC ACID AS AN INHIBITOR OF THE CORROSION OF ALUMINIUM-MAGNESIUM ALLOYS IN HYDROCHLORIC SOLUTIONS 67-12 M18-82297
PROTECTION OF METALS WITH ELECTRIC CURRENTS 67-12 M18-82351

CATHODIC VACUUM ETCHING
SEE VACUUM ETCHING
CATHOLYTES
CONTRIBUTION TO THE ELECTROLYTIC PRECIPITATION OF MANGANESE 67-07 M03-73225
CATION EXCHANGING
THE STATE OF HYDROGEN IN STEEL 67-10 M14-78746
CAUSTICITY
SEE PH
CAUSTICS
SEE ALKALIES
CAVITATION
DIE EROSION IN PRESSURE DIE CASTING 67-01 M06-58231
THE GROWTH OF GRAIN BOUNDARY CAVITIES DURING HIGH TEMPERATURE FATIGUE 67-01 M17-57483
CAVITATION AND ITS EFFECT ON THE PHYSICAL CHARACTERISTICS OF ALUMINUM 67-01 M17-58043
THE PROTECTIVE MECHANISM OF EMULSIFIABLE OILS AGAINST CAVITATION AND CORROSION 67-01 M18-58438
EFFECT OF SULFUR, PHOSPHORUS AND SILICON ON CRYSTALLIZATION CRACKING IN TYPE 30KH 10G10 BUILT-UP METAL 67-02 M11-60832
THE CAVITATION BREAKDOWN OF STEELS MADE IN AN ELECTRIC ARC FURNACE 67-02 M17-59552
A STUDY OF THE MECHANISM OF INTERGRANULAR CREEP CAVITATION BY SHADOWGRAPHIC ELECTRON MICROSCOPY 67-02 M17-60641
THE BEHAVIOR OF PLAIN CARBON CONSTRUCTION STEELS AND FILLER MATERIALS WHEN SUBJECTED TO SAND EROSION AND CAVITATION IN HYDROTURBINE PLANTS 67-02 M18-59037
INVESTIGATION OF THE RESISTANCE TO CAVITATION AND THE KINETICS OF CAVITATION BREAKDOWN OF METALLIC ALLOYS 67-02 M18-59896
EFFECT OF ALLOYING ELEMENTS ON THE CAVITATION RESISTANCE OF CHROMIUM-MANGANESE STEEL 67-02 M18-59953
INFLUENCE OF SULPHUR, PHOSPHOROUS AND SILICON ON SOLIDIFICATION CRACKING IN TYPE 30KH10G10 WELD METAL 67-04 M11-67989
RESISTANCE TO CAVITATION AND MECHANICAL PROPERTIES OF METALS 67-04 M17-66870
EFFECT OF THE HARDNESS AND STRUCTURE OF STEEL ON RESISTANCE TO HYDRAULIC ABRASION AND CAVITATION 67-04 M17-67049
EFFECT OF EXPOSURE TIME ON CAVITATION DAMAGE 67-04 M18-66232
ELECTRON MICROSCOPIC ANALYSIS OF EROSION WEAR OF 1KH18N9T STAINLESS STEEL DEPENDING ON HEAT TREATMENT AND CAVITATION EXPOSURE TIME 67-05 M13-69019
INVESTIGATION OF THE RESISTANCE TO CAVITATION AND ABRASION OF MATERIALS FOR HYDRAULIC TURBINES 67-05 M17-68453
HYDROEROSION RESISTANCE OF AUSTENITIC CR-MN STEELS ALLOYED WITH NITROGEN AND SOME OTHER ELEMENTS 67-05 M17-69017
STRUCTURE AND PROPERTIES OF CAVITATION-RESISTANT 30KH10G10 STEEL 67-05 M17-69307
CAVITY DEVELOPMENT DURING CREEP OF A DILUTE NICKEL ALLOY 67-05 M17-69565
EFFECT OF AN ELECTRIC FIELD ON THE CAVITATION DISINTEGRATION OF METALS 67-06 M17-70937
COMMENT ON CAVITY GROWTH MECHANISMS DURING CREEP 67-06 M17-72227
CAVITATION DAMAGE AND CRYSTAL STRUCTURE --A STUDY OF CAVITATION DAMAGE FROM THE VIEWPOINT OF MATERIAL SCIENCE. PT. 3.-- 67-06 M18-70780
ANALYZING CAVITATION IN HIGH-RECOVERY VALVES 67-06 M18-71515
CAVITATION DAMAGE STUDIES WITH ROTATING DISK IN WATER 67-06 M18-71638
THE INFLUENCE OF THE WATER COMPOSITION ON DECAY OF MATERIALS BY CAVITATION AND CORROSION 67-06 M18-71700
A NEW METHOD OF STUDYING CAVITATION WEAR 67-07 M17-72870
WEAR MECHANISM OF THE SURFACE OF CU-ZN METAL GROUP IN THE PRESENCE OF MERCURY AND ULTRASONIC VIBRATIONS 67-07 M17-73162
METALLOGRAPHIC STUDIES ON THE COMMENCEMENT OF DESTRUCTION OF METALLIC MATERIALS BY CAVITATION IN WATER OF 50 TO 55 C 67-07 M18-72481
EFFECT OF STRAINING AND ANNEALING ON THE CAVITATION RESISTANCE OF CERTAIN METALS AND ALLOYS 67-08 M18-74338
A BRONZE 67-08 M18-74875
CAVITATION 67-08 M18-76296
INFLUENCE OF CARBON ON FORMATION OF MARTENSITE AND CAVITATION RESISTANCE 67-09 M17-77371
CAVITATION DAMAGE PATTERNS WITH MAGNETOSTRICTIVE OSCILLATORS 67-09 M18-76662
INVESTIGATION OF THE HYDROMECHANICAL EFFECT OF THE IMPACT OF DROPS 67-09 M18-77351
OBSERVATIONS OF THE EFFECT ON SURFACES OF EROSION AND CAVITATION 67-10 M18-78466
MICROSCOPIC AND ELECTRON FRACTOGRAPHIC STUDY OF TRACES OF THE INITIAL CAVITATION EFFECTS ON METAL SURFACES 67-10 M18-79221
AN INVESTIGATION OF THE DESTRUCTION OF MATERIAL DURING CAVITATION AND CORROSION USING ULTRASONIC TRANSDUCERS 67-10 M18-79883
NEW METHOD OF INVESTIGATING CAVITATION WEAR 67-12 M17-82178
CAVITATION, ALLOYING EFFECTS
CAVITATION RESISTANCE OF CHROMIUM-MANGANESE AUSTENITIC STEELS CONTAINING NITROGEN 67-08 M18-76282
CAVITATION RESISTANCE OF CHROMIUM-MANGANESE AUSTENITIC STEELS CONTAINING NITROGEN 67-10 M18-79275
CAVITATION, SURFACE PROPERTIES
INFLUENCE OF DEFORMATION AND SUBSEQUENT RECRYSTALLIZATION-FREE ANNEALING ON CAVITATION RESISTANCE OF 1KH18N9T STAINLESS STEEL 67-05 M17-69018
CAVITIES
SEE HOLES
CAVITYLESS CASTING
SEE FULL MOLD PROCESS CASTING
CELLS
SEE ELECTROLYTIC CELLS
FUEL CELLS
PHOTOELECTRIC CELLS
PHOTOVOLTAIC CELLS
CELLULAR PRECIPITATES
PRECIPITATION EFFECTS IN AUSTENITIC STAINLESS STEELS CONTAINING TITANIUM AND ALUMINIUM ADDITIONS 67-04 M14-66993
MORPHOLOGY OF CELLULAR PRECIPITATION OF TIN FROM LEAD-TIN BICRYSTALS 67-06 M14-70425
MORPHOLOGY OF CELLULAR PRECIPITATION OF TIN FROM LEAD-TIN BICRYSTALS. PT. 2 67-11 M14-81265
APPARENT PORE FORMATION DURING CELLULAR SOLIDIFICATION 67-12 M13-82874
SEGREGATION AND GRAIN GROWTH IN DILUTE ALLOYS 67-12 M13-82879
CEM PROCESS
REFRACTORY METALS PROTECTION 67-06 M12-71318
CEMENTATION
METALLIC CEMENTATION 67-01 M12-58432
NUCLEATION SITES OF THE ALPHA PHASE GAS IN THE PHASE DURING CEMENTATION OF IRON BY CHROMIUM 67-02 M14-60554
DIFFUSION ON THE SURFACE OF STEEL PARTS 67-03 M12-65452
HOW CERTAIN FACTORS AFFECT THE REDUCTION OF GALLIUM IN ALKALINE SOLUTIONS OF ALUMINUM GALLAM ALLOYS. PT. 2 67-04 M03-66851
REDUCTION OF GALLIUM IN ALKALINE SOLUTIONS OF ALUMINUM GALLAM. PT. 1 67-04 M03-66852
CEMENTATION OF NOBLE METALS FROM CYANIDE SOLUTIONS 67-06 M03-69974
CEMENTATION OF THALLIUM FROM SULFURIC ACID SOLUTIONS BY ZINC GALLAM 67-06 M03-70906
AN EXAMINATION OF COPPER AND SILVER CEMENTATION KINETICS WITH METALLIC IRON FROM CHLORIDE SOLUTIONS 67-06 M03-71343
ON INTENSIFYING THE CEMENTATION OF METALS ON ZINC FROM SULFATE SOLUTIONS 67-09 M03-76889
PRACTICAL EXPERIENCES OF GASEOUS CEMENTATION BY GRANULES 67-12 M10-82142
CEMENTATION HARDENING BY INDUCTION HEATING IN A LIQUID MEDIUM 67-12 M10-83106
A KINETIC STUDY OF COPPER PRECIPITATION ON IRON. PT. 2 67-12 M14-82734
CEMENTED CARBIDES
PHYSICAL PROPERTIES AND METALLOGRAPHY OF TITANIUM CARBIDE/STEEL INFILTRATION ALLOYS 67-05 M09-69061
CEMENTED CARBIDES, CRYSTAL LATTICES
X-RAY INVESTIGATION OF CUBIC TUNGSTEN CARBIDES IN SPARK MACHINED CERMETS AND CEMENTED TUNGSTEN CARBIDES 67-08 M14-74936
CEMENTED CARBIDES, CUTTING TOOLS
DESIGNING HIGH PERFORMANCE STAMPING AND DRAWING

CEMENTED CARBIDES

DIES WITH FERRO-TIC STEEL-BONDED CARBIDE COMPONENTS 67-01 M08-58678
CEMENTED CARBIDES, HEAT TREATMENT
HEAT TREATING OF FERRO-TIC C STEEL-BONDED CARBIDE 67-10 M10-79526
CEMENTED CARBIDES, MACHINING
SYNTHETIC DIAMONDS AND THEIR APPLICATIONS IN MODERN SOVIET INDUSTRY 67-03 M08-65161
METALWORKING 67-08 M07-75497
CEMENTED CARBIDES, MECHANICAL PROPERTIES
ON THE INFLUENCE OF NOTCHES AND HEAT TREATMENT ON THE FATIGUE STRENGTH OF TUNGSTEN CARBIDE-COBALT ALLOYS 67-02 M17-60121
SOME PROPERTIES OF WC-20 PER CENT CO AND WC-5 PER CENT TAC-20 PER CENT CO ALLOYS 67-02 M17-60151
TIC.. A NEW ERA IN CUTTING TOOLS 67-03 M17-65011
PLASTICITY, HARDNESS AND FRACTURE OF TUNGSTEN CARBIDES 67-03 M17-65671
CEMENTED CARBIDES WITH HIGH-MELTING BINDERS. PT. 2. TERNARY EQUILIBRIUM SYSTEMS 67-10 M14-79979
TECHNOLOGY OF ADVANCED CUTTING TOOL MATERIALS 67-11 M17-80294
CEMENTED CARBIDES, MICROSTRUCTURE
THE STRUCTURAL DEPENDENCE OF THE PROPERTIES OF TUNGSTEN CARBIDE-COBALT ALLOYS 67-01 M17-57924
CEMENTED CARBIDES, PHASE TRANSFORMATIONS
EFFECTS OF THE CARBON CONTENT ON THE PROPERTIES OF WC-TIC-CO ALLOYS 67-03 M14-65846
CEMENTED CARBIDES, PHYSICAL PROPERTIES
VARIATIONS IN SOME PROPERTIES OF SINTERED TUNGSTEN CARBIDE-COBALT ALLOYS WITH PARTICLE SIZE AND BINDER COMPOSITION 67-01 M15-58743
CEMENTED CARBIDES, POWDER METALLURGY
TRENDS IN THE DEVELOPMENT OF SINTERED MATERIALS 67-02 M09-60205
CEMENTED CARBIDES, SOLID SOLUTIONS
A STUDY ON THE CO PHASE COMPOSITION CONTAINED IN WC -CO-BASE CEMENTED CARBIDES 67-01 M14-58333
CEMENTED CARBIDES, WEAR
TESTING BUILT-UP METAL FOR WEAR IN A STREAM OF DUST-FILLED GAS AT HIGH TEMPERATURES 67-04 M17-67092
TESTING OF DEPOSITED METAL FOR WEAR IN A HIGH-TEMPERATURE GAS FLOW CONTAINING DUST 67-09 M17-78072

CEMENTITE
STRUCTURAL STUDIES OF THE CARBIDES --FE,MN--3C AND --FE,MN--5C2 67-01 M13-57421
THE EFFECTS OF VARIOUS FACTORS ON THE CONCENTRATING PROCESS OF ALLOYING ELEMENTS INTO CEMENTITE 67-01 M14-58330
ON THE CONCENTRATING PROCESS OF THE ALLOYING ELEMENT INTO CEMENTITE DURING THE TEMPERING OF STEEL 67-02 M10-59123
ON THE NATURE OF CEMENTITE 67-02 M14-61756
METALLOGRAPHY AND STRENGTHENING MECHANISMS OF 0.3 PER CENT C AND 0.3 PER CENT C-1.5 PER CENT CU STEELS. PT. 1. METALLOGRAPHY OF A 0.3 PER CENT C AND A 0.3 PER CENT C-1.5 PER CENT CU STEEL IN THE TEMPERED CONDITION 67-04 M14-66990
IN-SITU TRANSFORMATION OF FE3C TO MO2C IN IRON-MOLYBDENUM-CARBON ALLOYS 67-04 M14-67022
VARIATION OF THE EXTERNAL FORM OF CEMENTITE AND MECHANICAL PROPERTIES DURING STRAIN AGING OF SPRING STEELS 67-04 M17-66877
EFFECT OF STRUCTURALLY-FREE CEMENTITE ON THE PROPERTIES OF COLD ROLLED MILD STEEL SHEET 67-05 M07-69439
THE CRYSTALLOGRAPHY OF CEMENTITE PRECIPITATION IN THE BAINITE TRANSFORMATION 67-09 M13-77591
THE USE OF HIGH-TEMPERATURE MICROSCOPY TO INVESTIGATE THE DECAY OF CEMENTITE IN MALLEABLE CAST IRON ALLOYS 67-09 M14-77105
GROWTH OF WIDMANSTATTEN CRYSTALS OF CEMENTITE IN STEEL 67-09 M14-77283
THE ANOMALOUS CHANGE IN VOLUME OF THE MIXED CRYSTAL SERIES --FE, CR--3C AND ITS SPECIFIC THERMOCHEMICAL AND MAGNETIC BEHAVIOR 67-09 M15-77197
THERMODYNAMICS OF BINARY FE-C AUSTENITE AND CEMENTITE 67-09 M15-77714
THE DIFFERENTIATION OF IRON AND CHROMIUM CARBIDES THROUGH ETCHING 67-10 M13-79066
CARBIDE PRECIPITATION IN WEAKLY-ALLOYED NI-CR-MO STEEL 67-10 M13-79586
STUDY ON THE MECHANISM OF BAINITE REACTION. PT. 2. TRANSMISSION ELECTRON MICROSCOPE OBSERVATION OF THE PROCESS OF BAINITE REACTION IN AN FE-NI-C ALLOY 67-11 M14-80951
EVOLUTION DURING TEMPERING AT A SLOWLY RISING TEMPERATURE OF THE MATRIX OF A 2 PER CENT-C IRON ALLOY, PREVIOUSLY SUBJECTED TO A MARTENSITIC QUENCH 67-11 M14-81560
MOSSBAUER STUDY OF THE FE-MN CARBIDES --FE1-XMNX-- 3C AND --FE1.1MN3.9--C2 67-12 M16-82005
CEMENTITE, DEFORMATION
DEFORMATION OF CEMENTATION 67-05 M13-68756
CEMENTITE, ELECTRON DIFFRACTION
AN ELECTRON DIFFRACTION STUDY OF PEARLITE. PT. 2 67-06 M13-71825
CEMENTITE, HEATING EFFECTS
EVOLUTION OF IRON CARBIDES DURING TEMPERING OF MARTENSITE 67-12 M14-81814
CEMENTITE, MICROSTRUCTURE
REDISTRIBUTION OF DISLOCATIONS IN CEMENTITE DURING HEATING 67-03 M13-65784
CEMENTITE, PHASE TRANSFORMATIONS
THE NATURE OF THE CHEMICAL BOND IN PHASES OF THE IRON-CARBON SYSTEM 67-01 M13-58146
CEMENTITE, PHYSICAL PROPERTIES
FURTHER MEASUREMENTS RELATING TO THE MECHANICAL PROPERTIES OF MASSIVE CEMENTITE 67-10 M15-79069
CEMENTITE, PRECIPITATION
THE TWO-STAGE PRECIPITATION OF CARBON FROM FERRITE 67-01 M14-58460
ON THE FINE SPHERICAL CEMENTITE PRECIPITATED IN THE PROEUTECTOID FERRITE OF THE HYPOEUTECTOID PLAIN CARBON STEEL BY QUICK THERMAL CYCLING 67-02 M14-60150
COMMENTS ON AN INVESTIGATION OF SECONDARY HARDENING OF A 1 PER CENT VANADIUM-0.2 PER CENT CARBON STEEL 67-06 M14-72238
CEMENTITE, RADIATION EFFECTS
THE EFFECT OF NEUTRON IRRADIATION ON THE THERMAL STABILITY OF CEMENTITE IN WHITE CAST IRON 67-02 M14-59909
RADIOGRAPHIC EFFECT ACCOMPANYING RADIATION DAMAGE IN THE CARBIDE PHASE OF WHITE CAST IRON 67-08 M14-74548
CEMENTITE, SOLUBILITY
THE SOLUBILITY OF CEMENTITE PRECIPITATES IN ALPHA IRON 67-09 M14-77724
CEMENTITE, THERMAL PROPERTIES
EFFECT OF THE MAGNETIC FIELD ON THE METASTABILITY OF CEMENTITE IN WHITE CAST IRON 67-01 M14-57134
CEMENTS
METALLIC POWDER CEMENTS 67-05 M12-68609
THE PRODUCTION OF CEMENT FROM METALLURGICAL SLAGS 67-06 M05-71702
SOME ASPECTS OF THE PROBLEMS POSED BY THE USE OF CEMENT-BONDED SAND IN STEEL FOUNDRIES 67-09 M06-77836
CEMENTS /ADHESIVES/
SEE ADHESIVES
CENTERLESS GRINDING
DIAMOND DRESSING IN THE PRODUCTION OF TAPERED ROLLER BEARINGS 67-01 M08-58786
ABRASIVE BELTS AND THEIR USE. PT. 2 67-03 M08-65042
BELT GRINDING EFFICIENCY 67-07 M08-72796
AN AMERICAN COMPANY CUTS COSTS BY MACHINING URANIUM CARBIDE DRY 67-11 M08-80515
CENTRIFUGAL CASTING
HIGH ALLOY CENTRIFUGAL CASTINGS IN CRITICAL APPLICATIONS 67-01 M06-58450
EFFICIENT GRADING OF CAST IRON PIPES FOR CENTRIFUGAL AND SEMICONTINUOUS CASTING 67-02 M06-59174
PULSATION OF RATES AND SHOWERING IN CENTRIFUGAL CASTING 67-02 M06-59180
INVESTIGATION OF THE PIPECASTING PROCESS IN CENTRIFUGAL MACHINES OF A NEW DESIGN 67-02 M06-61008
CENTRIFUGAL CASTING OF IRON SLEEVES WITHOUT CHILLING 67-02 M06-61019
CALCULATING MOLD ROTATION VELOCITY IN CENTRIFUGAL CASTING OF IRON PIPES 67-02 M06-61226
CENTRIFUGAL CASTING OF PIPES FROM SLAG MELTS 67-02 M06-61227
CENTRIFUGAL CASTING OF THIN-WALLED STEEL CYLINDERS 67-02 M06-62002
STRUCTURE OF THE IRON IN SPUNCAST PIPES 67-02 M13-61917

AN AUTOMATIC CASTING MACHINE FOR MULTI-LAYER AXIALLY SYMMETRICAL COMPONENTS 67-04 M06-67945
CALCULATING THE ROTARY SPEED OF THE MOLD IN THE CASTING OF IRON PIPES 67-04 M06-68087
CENTRIFUGAL CASTING OF PIPES FROM SLAG MELTS 67-04 M06-68088
EFFECT OF CENTRIFUGAL FORCE ON SOLIDIFICATION OF ALUMINUM ALLOYS 67-06 M06-71677
CAST ALUMINUM MOTORS WEIGH LESS, LOOK BETTER, LAST LONGER 67-07 M06-72820
CENTRIFUGAL CASTING OF IRON PIPES INTO METAL MOLDS COATED WITH SAND-RESIN 67-07 M06-74036
THEORETICAL DETERMINATION OF OPTIMUM THICKNESS OF COATINGS OF PERMANENT MOLDS IN CENTRIFUGAL CASTING OF PIPE BILLETS 67-08 M06-74591
MACROSTRUCTURE OF PIPES CAST BY THE CENTRIFUGAL METHOD 67-08 M06-76038
CENTRIFUGAL CASTING OF THIN-WALLED STEEL RINGS 67-08 M06-76085
CENTRIFUGAL CASTING OF DRILL BITS 67-09 M06-77961
FAST PRODUCTION METHOD FOR ONE-OF-A-KIND CASTINGS 67-09 M06-78170
SPACE AGE MEETS BRONZE AGE 67-10 M06-78569
SOME EXPERIMENTS ON CENTRIFUGAL CASTING OF ALUMINIUM 67-10 M06-78773
SELECTING A SUITABLE RANGE OF CAST IRON PIPES FOR CENTRIFUGAL AND SEMICONTINUOUS CASTING 67-10 M06-78883
VELOCITY FLUCTUATIONS AND RIPPLE FORMATION DURING CENTRIFUGAL CASTING 67-10 M06-78889
FOUNDRY FOR CENTRIFUGAL CASTING OF WATER PIPES 67-11 M06-80423
CENTRIFUGAL CASTING OF STEEL OKH23N28M3D3T PIPES 67-12 M06-81887
RESIDUAL STRESS IN CAST IRON TUBES 67-12 M06-82087
MOLD LIFE IN CENTRIFUGAL CASTING OF IRON PIPES 67-12 M06-82096
POURING CHUTES FOR CENTRIFUGAL CASTING OF IRON PIPES 67-12 M06-83030
ZONAL SEGREGATION IN CENTRIGUGAL CASTING OF OKH10N20T2 STEEL 67-12 M06-83031
HEAT EXCHANGE ON THE INTERNAL SERVICE DURING CENTRIFUGAL CASTING OF PIPES 67-12 M06-83036

CENTRIFUGAL CASTING, COOLING
COOLING OF MOLDS DURING PIPE CASTING 67-04 M06-67505

CENTRIFUGAL CASTINGS, MECHANICAL PROPERTIES
CREEP-RUPTURE PROPERTIES OF CENTRIFUGALLY CAST 1 1/4CR-1/2MO ALLOY STEEL PIPE 67-04 M17-66234
BEHAVIOR OF STEELS AT HIGH PRESSURES AND TEMPERATURE FOR THE CHEMICAL INDUSTRY 67-04 M17-67212
HIGH TEMPERATURE ALLOYS FOR USE IN REFORMER FURNACES 67-06 M17-70528
NOTES ON THE PROPERTIES AND WELDING OF CENTRIFUGALLY CAST 25 PER CENT CHROMIUM 20 PER CENT NICKEL ALLOY STEEL TUBE 67-06 M17-70533
CENTRIFUGAL CASTING OF DRILL BITS 67-09 M06-77961

CENTRIFUGAL CASTINGS, WELDING
WELDING METALLURGY OF CAST AUSTENITIC MATERIALS 67-06 M11-70536
EXPERIENCES IN CONSTRUCTION AND OPERATION OF THE ICI TUBULAR REFORMER AT THE EFFINGHAM STREET WORKS OF THE EAST MIDLANDS GAS BOARD 67-06 M11-70541

CENTRIFUGAL CLASSIFIERS
SEE ALSO CYCLONE SEPARATORS
CENTRIFUGAL SEPARATION TO RAISE IRON CONTENT OF KERCH ORES 67-11 M02-81634

CENTRIFUGAL COMPRESSORS, CORROSION
CORROSION IN CENTRIFUGAL AIR COMPRESSORS 67-06 M18-70545

CENTRIFUGES
NEW ASPECTS IN THE DEVELOPMENT OF PREPARATIVE ULTRACENTRIFUGES 67-06 M20-70224

CENTRIFUGES, MACHINING
METAL SPINNING TOOLS UP FOR SPACE AGE JOBS 67-06 M08-70680

CENTRIFUGES, MECHANICAL PROPERTIES
THE POTENTIAL DANGER OF CENTRIFUGE BASKETS 67-08 M17-74510

CERAMALS
SEE CERMETS

CERAMIC BONDING
A PRACTICAL GUIDE TO DIFFUSION BONDING 67-02 M12-59041
THE METAL-CERAMIC BOUNDARY 67-05 M11-69446

CERAMIC CASTING
SEE ALSO INVESTMENT CASTING
PLASTER CASTING
SHAW PROCESS CASTING
PRODUCTION AND PROPERTIES OF ALNICO ALLOYS WITH COLUMNAR STRUCTURE 67-01 M06-58444

CERAMIC COATINGS
SEE VITREOUS ENAMEL

CERAMIC MOLD CASTINGS
SEE ALSO INVESTMENT CASTINGS
CERAMIC MOLDING BY THE UNICAST PROCESS 67-09 M06-77980

CERAMIC MOLDS
APPLICATION AND BEHAVIOR OF CAST FORGING DIES 67-02 M07-59083
CALCULATING THE GATING-FEEDING SYSTEMS FOR THIN-WALLED ELONGATED CASTINGS 67-04 M06-66416
TEMPERATURE CONDITIONS ON THE BOUNDARY OF JOINING OF TWO IRONS IN CAST BIMETAL 67-04 M06-66418
MECHANISM OF THE FORMATION OF BURN-ON ON STEEL CASTINGS IN SILICATE-BONDED MOLDS 67-04 M06-66421
CAST DIES FOR FORGING AND DIECASTING 67-06 M06-71579
INVESTMENT CASTING PROCESS AND ITS VARIABLES 67-09 M06-77981
SOME PROBLEMS IN THE MELTING AND CASTING OF URANIUM AND ITS ALLOYS 67-10 M06-79564

CERAMIC TOOLS
CERAMIC CUTTING TOOLS--THEIR CAPABILITIES AND LIMITATIONS 67-03 M20-65688
CERAMIC CUTTING TOOLS--APPLICATIONS AND PROBABLE FUTURE DEVELOPMENTS 67-04 M20-66154
CERAMIC CUTTING TOOLS 67-06 M08-70235
CERAMIC TOOLS--TODAY AND TOMORROW 67-06 M08-70567
USE OF CERAMIC CUTTING TOOLS 67-10 M08-78852

CERAMIC TOOLS, MECHANICAL PROPERTIES
TIC.. A NEW ERA IN CUTTING TOOLS 67-03 M17-65011

CERAMIC TOOLS, WEAR
WEAR OF THE CUTTERS DURING MACHINING OF POROUS MATERIALS 67-08 M09-74316

CERAMICS
SEE ALSO FIREBRICK
PORCELAIN
SILICA BRICK
COMPARISON OF PARTICLE SIZE ANALYSIS METHODS 67-05 M19-69572
MANUFACTURING POROUS CERAMIC PLUGS FOR BOTTOM BLOWING OF STEELS IN LADLES 67-06 M05-70562

CERAMICS, BONDING
STRUCTURAL ADHESIVES BOND METAL GLASS AND RUBBER 67-02 M11-61858

CERAMICS, BRAZING
OXIDATION RESISTANT, HIGH TEMPERATURE CERAMIC-TO-METAL SEAL COMPATIBLE WITH CESIUM 67-10 M11-79996
BRAZED, VACUUM-TICHT CERAMIC-METAL JOINTS 67-12 M11-83008

CERAMICS, COATING
ELECTROLESS PLATING FOR ELECTRONIC APPLICATIONS 67-07 M12-72771
METALLIZING CERAMICS FOR MERAMIC-TO-METAL SEALS 67-07 M12-74101
ADHERENCE TO CERAMIC COMPONENTS OF METAL LAYERS WHICH ARE DIFFICULT TO SEAL 67-09 M12-76749

CERAMICS, COATINGS
THE EFFECTIVENESS OF SPRAYED CERAMIC FILMS AS A PROTECTION AGAINST OXIDATION OF STEEL 67-02 M18-60282
FLAME-SPRAYED COATINGS 67-09 M12-76699
THERMAL SHOCK RESISTANCE OF CERAMIC COATINGS ON METALS 67-09 M12-76925
METALLIZATION. PT. 9 67-10 M12-79891
CERAMIC INSULATED MAGNET WIRES 67-11 M12-81242

CERAMICS, COMPOSITE MATERIALS
CERAMIC-METAL FIBER COMPOSITE SYSTEMS 67-03 M14-65349

CERAMICS, CORROSION
RESISTANCE OF CORUNDUM CERAMIC TO LIQUID POTASSIUM-SODIUM ALLOY 67-05 M18-68600

CERAMICS, CRYSTAL GROWTH
PYROLYTIC MATERIALS 67-02 M14-60711

CERAMICS, CRYSTAL LATTICES
MECHANISM FOR VISCOUS GRAIN-BOUNDARY SLIDING

67-04 M14-66681

CERAMICS, CUTTING
GAS-BORNE ABRASIVE CUTS BRITTLE MATERIALS
67-06 M08-71205

CERAMICS, DIFFUSION
DIFFUSION OF FISSION PRODUCTS IN CERAMIC FUELS
67-08 M14-74418

CERAMICS, ELECTRIC DEVICES
CERAMICS IN HYBRID INTEGRATED CIRCUITS
67-07 M20-73204

CERAMICS, ELECTRICAL PROPERTIES
TIME DEPENDENT CONDUCTIVITY IN TITANIUM OXIDE
67-07 M15-73638
HALOGEN TREATMENT OF BATIO3 SEMICONDUCTORS
67-08 M15-75990
ELECTRIC CONDUCTIVITY AND DIELECTRIC ABSORPTION PHENOMENA IN LEAD ZIRCONATE CERAMICS
67-11 M15-80618

CERAMICS, FIBER METALLURGY
CERAMIC WHISKERS REINFORCE ALUMINUM CASTINGS
67-05 M06-69886

CERAMICS, HARDENING
BASIC MECHANISMS OF STRAIN-HARDENING IN CERAMICS
67-03 M17-65333

CERAMICS, LAMINATING
LAMINATED CERAMICS 67-09 M05-77818

CERAMICS, MACHINING
SYNTHETIC DIAMONDS AND THEIR APPLICATIONS IN MODERN SOVIET INDUSTRY 67-03 M08-65161
DIAMOND WHEELS PLUS ULTRASONICS CUT CERAMICS FASTER
67-06 M08-71340
WHICH DIAMOND WHEEL FOR SPACE AGE CERAMICS
67-06 M08-72029
GAS-BORNE ABRASIVE CUTS BRITTLE MATERIALS
67-09 M08-76498

CERAMICS, MAGNETIC PROPERTIES
NEW FIGURE OF MERIT FOR CERAMIC PERMANENT MAGNET MATERIAL INTENDED FOR DC MOTOR APPLICATIONS
67-07 M15-73509

CERAMICS, MECHANICAL PROPERTIES
THE DEVELOPMENT AND EVALUATION OF HYPEREUTECTIC CARBIDES 67-02 M05-60712
THE ODDS AGAINST FRACTURE OR PREDICTING STRENGTH OF BRITTLE STRUCTURES 67-02 M17-60589
THERMOMECHANICAL BEHAVIOR 67-02 M17-60705
MECHANISM OF BRITTLE FRACTURE 67-02 M17-60706
ELEMENTARY CONSIDERATIONS FOR STRUCTURAL USE
67-02 M17-60709
REVIEW OF SELECTED PROPERTY DATA
67-02 M17-60715
STRENGTHENING MECHANISMS--METALS AND CERAMICS
67-03 M17-65328
EFFECT OF MICROSTRUCTURE ON CREEP MECHANISMS IN CERAMICS 67-03 M17-65334
MICROSTRUCTURE AND ITS INFLUENCE ON STRENGTH
67-03 M17-65335
DISPERSION-STRENGTHENED CERAMICS
67-03 M17-65336
HIGH-TEMPERATURE CREEP OF AL203 CERAMICS
67-06 M17-70565
SURVEY OF CERAMIC FIBERS AND FIBROUS COMPOSITE MATERIALS 67-07 M01-73874
FRICTIONAL BEHAVIOR OF CERAMIC MATERIALS
67-07 M17-74053
FIRING DEFORMATION OF CERAMIC BODIES
67-08 M05-75521
METALLIC-FIBER REINFORCED HEAT RESISTANT CERAMIC MATERIALS 67-08 M09-74357
MECHANICAL PROPERTIES OF CERAMICS--AN INTRODUCTORY SURVEY 67-11 M05-80669

CERAMICS, MECHANICAL TESTS
THE APPLICATION OF THE DIAMETRAL --SPLITTING-- TEST TO DETERMINE THE TENSILE STRENGTH, YOUNGS MODULUS AND POISSONS RATIO OF CERAMICS AND CERMETS 67-09 M17-77024

CERAMICS, MELTING
PLASMA FURNACE FOR MELTING AND SPHEROIDIZING OF CERAMIC POWDERS 67-12 M09-82805

CERAMICS, NUCLEAR FUELS
METAL-CERAMIC FUELS. DISPERSION FUELS --LESS THAN 50 VOL. PER CENT CERAMIC PHASE--
67-09 M16-77311

CERAMICS, PHYSICAL PROPERTIES
MODERN CERAMICS--SOME PRINCIPLES AND CONCEPTS
67-02 M05-60701
THE RELATIONSHIP OF PHYSICAL PROPERTIES, MICROSTRUCTURE, AND FABRICATION
67-02 M15-60707
BORON NITRIDE-- HIGH COST MATERIAL WITH A PROMISING FUTURE 67-05 M05-68426
ENGINEERING PROPERTIES OF SELECTED CERAMIC MATERIALS 67-07 M05-73875
VAPORIZATION KINETICS OF CERAMIC OXIDES AT TEMPERATURES AROUND 2000 C 67-08 M15-75371
THE EFFECTS OF SOME VARIATIONS IN FABRICATION PROCEDURE ON THE PROPERTIES OF LEAD ZIRCONATE-TITANATE CERAMICS MADE FROM SPRAY-DRIED, CO-PRECIPITATED POWDERS 67-09 M09-76747

CERAMICS, POWDER METALLURGY
DEVELOPMENT TRENDS IN MODERN POWDER METALLURGY
67-01 M09-58717
HOT-PRESSED TRANSLUCENT OXIDES 67-02 M09-60710
EFFECT OF EXPLOSIVE SHOCK WAVES ON CERAMIC POWDERS
67-03 M09-65653
HYDROSTATIC PRESSING OF POWDERS
67-07 M09-73861

CERAMICS, PRESSING
HOT PRESS CERAMICS FOR HIGH STRENGTH, PRECISION
67-10 M05-78902

CERAMICS, RADIATION EFFECTS
DIRECT OBSERVATION OF FISSION FRAGMENT DAMAGE IN SOME CERAMIC OXIDES 67-04 M16-67459

CERAMICS, REACTIONS /CHEMICAL/
A STUDY OF THE COMPATIBILITY OF SELECTED REFRACTORY METALS WITH VARIOUS CERAMIC INSULATION MATERIALS
67-04 M18-67270
CERAMIC THERMOCHEMISTRY. PT. 2 67-06 M05-70611

CERAMICS, SEALING
CERAMIC-TO-METAL JOINTS 67-04 M11-66288
REFRACTORY CERAMIC-TO-METAL SEAL
67-06 M11-71693

CERAMICS, SINTERING
SOME ASPECTS OF SINTERING WITH SPECIAL REFERENCE TO OXIDES AND TO REDUCING CONDITIONS
67-06 M09-70883

CERAMICS, SOLDERING
KOVAR 61--AN ALLOY FOR SOLDERING WITH CZECHOSLOVAKIAN CERAMICS 67-02 M11-58869

CERAMICS, THERMAL PROPERTIES
CERAMIC HEAT-RESISTING MATERIALS
67-01 M05-57984
MEASURING THE THERMAL CONDUCTIVITY OF SOLIDS AT ELEVATED TEMPERATURES UP TO THE MELTING POINT
67-01 M15-58226
THERMAL AND ELECTRICAL PROPERTIES
67-02 M15-60704
HEAT RESISTANT CERAMIC MATERIALS
67-06 M05-70225
CERAMIC HEAT RESISTING MATERIALS
67-07 M05-72413
IRREVERSIBLE THERMAL EXPANSION 67-11 M19-80361

CERAMICS, THERMODYNAMICS
REVIEW OF THE SCIENCE OF CERAMIC MATERIALS
67-02 M05-60702
CHEMISTRY AT HIGH TEMPERATURES.. THE PROBLEM OF REDUCING CHEMICAL ATTACK 67-02 M14-60703

CERAMICS, THIN FILMS
SEMI-AUTOMATIC PREPARATION OF ULTRA-THIN AND LARGE-AREA PETROLOGICAL SECTIONS 67-03 M05-65673

CERAMICS, WELDING
WELDING CERAMIC MATERIALS TO METALS
67-10 M11-78404

CERIUM, ALLOYING ADDITIVE
EFFECT OF CERIUM ON CERTAIN PROPERTIES OF PEARLITIC CAST STEEL 67-01 M06-57326
TREATING NICKEL MELTS WITH ADDITIONS OF MAGNESIUM, CERIUM AND ZIRCONIUM 67-01 M17-57283
STUDIES OF THE SIMULTANEOUS ADDITION OF MAGNESIUM AND RARE EARTH ALLOYS ON THE MANUFACTURE OF NODULAR GRAPHITE CAST IRON 67-02 M06-60148
MANUFACTURE OF SPHEROIDAL GRAPHITE CAST IRON WITH MG AND RARE-EARTH MIXED AGENT
67-02 M06-60754
INFLUENCE OF CERIUM ON THE STRUCTURE OF HYPO-EUTECTIC IRON CASTINGS 67-02 M13-61013
ELECTRONIC PROBE METHOD OF STUDYING THE CERIUM DISTRIBUTION IN IRONS 67-02 M13-61669
EFFECT OF ALLOYING ELEMENTS ON RECRYSTALLIZATION OF MG ALLOYS 67-02 M14-62233
TREATMENT OF CUPOLA IRON WITH FERROCERIUM
67-02 M17-61184
OXIDATION RESISTANCE OF KH20N80 ALLOY, ALLOYED WITH LANTHANUM AND CERIUM 67-02 M18-60063
THE MECHANISM OF THE INFLUENCE OF RARE-EARTH METALS ON THE PROPERTIES OF STRUCTURAL STEEL
67-03 M17-65970
EXPERIENCE WITH THE INTRODUCTION OF CERIUM-INOCULATED HIGH-STRENGTH CAST IRON

67-04 M06-66423
REASONS FOR THE HIGH IMPACT STRENGTH OF STEEL CONTAINING RARE EARTH METALS 67-04 M13-67967
INFLUENCE OF RARE EARTH ELEMENTS ON THE CRYSTALLIZATION OF CARBON STEEL 67-05 M13-68378
EFFECT OF CERIUM ON STRUCTURE AND PROPERTIES OF OKH23N18 STEEL 67-05 M13-68557
EFFECT OF CERTAIN ELEMENTS ON THE FORM OF GRAPHITE IN CAST IRON 67-05 M14-69880
EFFECTS OF INOCCULANTS AND ALLOYING ADDITIVES ON THE STRUCTURE OF SPECIAL IRONS INVESTIGATED USING ISOTOPES 67-06 M13-70326
NEW STEEL FOR HEAT RESISTANT CASTINGS 67-06 M17-70333
INFLUENCE OF CERIUM ON CERTAIN PROPERTIES OF CAST PEARLITIC STEEL 67-07 M06-73048
EFFECT OF MICROALLOYING WITH RARE EARTH ON THE STABILITY OF THERMAL STRENGTHENING OF STEEL 67-07 M10-73789
EFFECT OF CERIUM ON STRUCTURE AND PROPERTIES OF OKH23N18 STEEL 67-07 M13-72468
THE MECHANISM OF THE INFLUENCE OF RARE-EARTH METAL ADDITIONS ON THE PROPERTIES OF CONSTRUCTIONAL STEELS 67-07 M17-72974
EFFECT OF CERIUM AND LANTHANUM ON THE CHILL OF CAST IRON 67-08 M06-75190
CERIUM-SILICON ALLOY REDUCES CHILL IN GRAY IRON 67-08 M06-75541
EFFECT OF BORON AND CERIUM ON THE NATURE OF BOUNDARY DISTRIBUTION OF EXCESS CARBIDES IN COMPOSITE-ALLOYED NICKEL ALLOYS ZHS 67-08 M14-75265
EFFECTS OF CERIUM ON WORKABILITY OF MAGNESIUM 67-08 M17-75358
EFFECT OF MICROALLOYING WITH RARE METALS ON STABILITY OF THERMOMECHANICAL HARDENING OF STEEL 67-09 M04-76552
EFFECT OF SIMULTANEOUS ADDITIONS OF MAGNESIUM AND RARE EARTH ALLOY ON THE MANUFACTURING OF NODULAR GRAPHITE CAST IRON 67-12 M04-82824
CERIUM ALLOY TREATMENT OF PIG IRONS FOR CASTING INGOT MOULDS 67-12 M06-81886
MORPHOLOGY OF THE FINE GRAPHITE EUTECTIC IN CERIUM CAST IRON 67-12 M14-82410

CERIUM, BINARY SYSTEMS
INTERMETALLIC COMPOUNDS IN THE RARE-EARTH METALS-ALUMINUM SYSTEMS AND SOME OF THEIR PROPERTIES 67-02 M13-62185
THE ROOM-TEMPERATURE LATTICE SPACINGS OF SOME INTRA RARE-EARTH BINARY SYSTEMS 67-03 M13-65132

CERIUM, DEOXIDIZERS
EFFECT OF ADDITIONS OF FERRO-CERIUM AND SILICOCALCIUM ON THE PROPERTIES OF CAST 35KH2GM STEEL 67-02 M17-61811
DEOXIDATION OF IRON-CARBON ALLOYS WITH CERIUM AND THE RESULTING NONMETALLIC INCLUSIONS 67-06 M04-72209

CERIUM, ELECTRICAL PROPERTIES
SOME ELECTRICAL-RESISTIVITY MEASUREMENTS ON CERIUM METALS OF VARIOUS PURITIES 67-06 M15-69930
THE RESISTANCE AND CRYSTAL STRUCTURE OF CERIUM AS DETERMINED BY TEMPERATURE CYCLING 67-12 M15-82289

CERIUM, EXTRACTION
AN INTENSIFIED METHOD OF EXTRACTING THORIUM AND RARE EARTHS FROM MONAZITE BY TREATING IT WITH ALKALIS 67-06 M03-69969
REMOVAL OF CERIUM FROM SAMARIUM BY THE AMALGAM METHOD 67-06 M03-70158

CERIUM, INTERMETALLICS
MAGNETIC BEHAVIOR OF CE IN ITS INTERMETALLIC COMPOUNDS. PT. 6. CE-BE, CE-B AND CE-C SYSTEMS 67-05 M15-69351
THE CRYSTAL STRUCTURE OF CE5MG42 67-06 M13-71404

CERIUM, METALLOGRAPHY
METALLOGRAPHY OF CERIUM AND LANTHANUM 67-02 M13-62061
A METALLOGRAPHIC TECHNIQUE FOR LANTHANUM AND CERIUM 67-12 M13-82981

CERIUM, PHASE TRANSFORMATIONS
ALLOTROPIC TRANSFORMATIONS IN CERIUM 67-06 M14-71601

CERIUM, REACTIONS /CHEMICAL/
INVESTIGATION OF ATTACK OF PURE RHENIUM AND TUNGSTEN BY MOLTEN LANTHANUM AND CERIUM 67-02 M14-62285
OXIDIZING CERIUM PRODUCED BY ZONE MELTING 67-03 M18-65800

CERIUM, REFINING
SOLID-STATE ELECTROMIGRATION OF IMPURITIES IN CERIUM METAL 67-04 M03-66887

CERIUM, SINGLE CRYSTALS
REFINEMENT OF A TH2NI17-TYPE STRUCTURE, CEMG1.03 67-11 M13-80491

CERIUM, SOLUBILITY
RESEARCH INTO THE SOLUBILITY OF CERIUM IN BERYLLIUM 67-09 M14-76951

CERIUM, TERNARY SYSTEMS
THE TERNARY SYSTEM PLUTONIUM-CERIUM-COBALT 67-03 M14-65087
INVESTIGATION OF THE CE-SI-GE SYSTEM 67-05 M14-68646
PHASE EQUILIBRIA IN THE TERNARY SYSTEM PLUTONIUM-CERIUM-IRON 67-09 M14-76324
LATTICE SPACINGS AND EFFECTIVE ATOMIC DIAMETERS IN THE TERNARY SYSTEM TH-CE-ZR 67-10 M16-78669
LATTICE SPACINGS AND EFFECTIVE ATOMIC DIAMETERS IN THE TERNARY SYSTEMS FORMED BY TH AND CE WITH Y, LA, GD AND ER, AND BY TH, PR AND Y 67-11 M13-80308
X-RAY DIFFRACTION ANALYSIS OF THE CE-MG-AL SYSTEM IN THE 0-33.3 AT . PER CENT CE RANGE 67-11 M13-81173
X-RAY EXAMINATION OF THE AL-BE-CE SYSTEM UP TO 25 PER CENT CE 67-12 M13-82122

CERIUM, THERMODYNAMICS
EFFECT OF CERIUM ON THE ACTIVITY OF SULFUR IN MOLTEN IRON 67-04 M14-66954

CERIUM BASE ALLOYS
SEE ALSO MISCHMETAL

CERIUM BASE ALLOYS, CRYSTAL LATTICES
PHASE STABILITY AND STACKING FAULTS IN CERIUM ALLOYS 67-08 M14-75124

CERIUM BASE ALLOYS, SUPERCONDUCTIVITY
SUPERCONDUCTIVITY OF CECO2 67-12 M16-82294

CERIUM BASE ALLOYS, SURFACE PROPERTIES
SURFACE TENSIONS OF CO-CE AND PU-CO-CE ALLOYS AS DETERMINED FROM FROZEN MENISCI 67-06 M15-70660

CERIUM COMPOUNDS, BINARY SYSTEMS
THERMAL DIFFUSION IN THE UO2-CEO2 SYSTEM 67-04 M14-67455

CERIUM COMPOUNDS, CORROSION
GALVANIC EFFECTS IN VACUUM DEPOSITED THIN FILMS 67-02 M18-59454

CERIUM COMPOUNDS, ELECTRICAL PROPERTIES
PHYSICAL PROPERTIES OF SOME RARE-EARTH METAL DICARBIDES 67-04 M15-67099
INFLUENCE OF ALLOYING ON ELECTRIC CONDUCTIVITY OF CERIUM SULFIDE 67-05 M16-68712
EFFECT OF ALLOYING ON THE ELECTROCONDUCTIVITY OF CERIUM SULFIDE 67-12 M16-82688

CERIUM COMPOUNDS, MAGNETIC PROPERTIES
MAGNETIC PROPERTIES OF CE, PR AND ND MONOCHALCOGENIDES AT 4.2 TO 1300 K 67-01 M16-57956
INVESTIGATION OF THE MAGNETIC PROPERTIES OF NEODYMIUM MONOCHALCOGENIDES AT 4.2-150 K 67-07 M15-73704

CERIUM COMPOUNDS, POWDER METALLURGY
OXIDE DISPERSION-STRENGTHENED PLATINUM 67-05 M09-68945

CERIUM COMPOUNDS, THERMODYNAMICS
REVIEW OF THE SCIENCE OF CERAMIC MATERIALS 67-02 M05-60702

CERMETS
CONDITIONS OF PREPARATION OF COMPLEX CARBIDE ALLOYS CONTAINING SCANDIUM CARBIDE 67-02 M09-61787

CERMETS, BEARINGS
BEARING MATERIALS--A LOOK AT THE FUTURE 67-02 M20-60243

CERMETS, COATING
CERAMIC-METAL COMPOSITES 67-04 M09-66280

CERMETS, COATINGS
SOME EXAMPLES OF THE USE OF FLAME-SPRAYED COATINGS FOR PROTECTION AGAINST HOT GASES 67-02 M12-62026

CERMETS, CORROSION
INVESTIGATION OF THE PHYSICAL PROPERTIES AND MICROSTRUCTURE OF HARD ALLOYS WITH A STEEL BOND 67-04 M18-67142

CERMETS, CRYSTAL LATTICES
EFFECT OF WC IMPURITIES ON THE SHORT RANGE ORDER IN TAC-NBC SOLID SOLUTIONS 67-01 M14-58145
CHARACTERISTICS OF HARD METAL STRUCTURES IN THE

ELECTRON MICROSCOPE 67-09 M13-76465
CORRELATED STRUCTURE IN EVAPORATED CERMET FILMS 67-10 M13-79169

CERMETS, CUTTING
HARD METAL FOR CUTTING TOOL FACING 67-01 M11-58152

CERMETS, CUTTING TOOLS
CUTTING PROPERTIES OF MONOLITHIC CERMET END CUTTERS 67-07 M08-74292

CERMETS, DIES
METHOD AND APPARATUS FOR REGENERATING SINTERED HARD-ALLOY BOLSTERS USED IN DIES 67-01 M09-58155

CERMETS, ELECTRICAL PROPERTIES
DEVELOPMENT AND EVALUATION OF MAGNETIC AND ELECTRICAL MATERIALS CAPABLE OF OPERATING IN THE 800 TO 1600 F. TEMPERATURE RANGE 67-06 M01-71855

CERMETS, FORMING
SOME METHODS OF MOLDING AND SINTERING CARBIDES 67-06 M09-70778

CERMETS, HARDENING
STRENGTHENING OF STEELS WITH LASER BEAMS 67-08 M10-76042
STRENGTHENING OF A HARD ALLOY BY LASER BEAM 67-09 M17-77286

CERMETS, HEAT TREATMENT
THE HEAT TREATMENT OF THE ONLY HARDENABLE HARD CARBIDE MATERIAL, FERRO-TIC-C SPECIAL. PT. 2 67-12 M10-83133

CERMETS, MACHINING
PRECISION FINISHING OF FERRITE AND CERAMIC MAGNETIC COMPONENTS 67-07 M08-73830
QUALITY OF THE SURFACE LAYER WHEN GRINDING WITH A DIAMOND WHEEL WITH A BAKELITE BINDER 67-07 M08-74287
GRINDABILITY OF CERMETS WITH DIAMOND WHEELS 67-09 M08-76445
ELECTROCHEMICAL MACHINING OF IRREGULAR HARD ALLOY TOOLS 67-12 M08-81906
EFFICIENT METHODS OF MACHINING NONMAGNETIC MATERIALS 67-12 M08-81995
SURFACE FORMING BY REVOLVING AND SPARK DISCHARGE MACHINING METHODS 67-12 M08-81996
CUTTING FORCE DURING MACHINING OF POROUS SINTERED MATERIALS 67-12 M08-82215
ELECTROLYTICALLY ASSISTED MACHINING OF HARD-ALLOY DIES FOR THE MANUFACTURE OF PIPES 67-12 M08-83411

CERMETS, MECHANICAL PROPERTIES
INVESTIGATION OF THE PRODUCTION OF CERMET PARTS WITH VARIABLE PHYSICAL AND MECHANICAL PROPERTIES 67-02 M09-60178
PREPARATION OF TIC, WC AND CRC CARBIDES AND INVESTIGATION OF THEIR PROPERTIES 67-02 M09-61713
EFFECT OF PLASTIC DEFORMATION ON THE PHYSICOMECHANICAL PROPERTIES OF TUNGSTEN CARBIDE-COBALT HARD ALLOYS 67-02 M09-61793
POSSIBLE APPLICATIONS FOR HIGHLY WEAR-RESISTANT CUTTING MATERIALS 67-02 M17-59617
THE ODDS AGAINST FRACTURE OR PREDICTING STRENGTH OF BRITTLE STRUCTURES 67-02 M17-60589
THE BREAKING STRENGTH OF A HARD ALLOY UNDER IMPACT LOADS 67-02 M17-61636
STRENGTHENING MECHANISMS--METALS AND CERAMICS 67-03 M17-65328
INVESTIGATION OF CERMETS OF NICKEL-BORON NITRIDE COMPOSITION 67-04 M09-66256
ON SINTERING CERMETS IN METAL-ALUMINUM OXIDE SYSTEMS 67-04 M09-67838
RESISTIVITY OF HARD ALLOYS TO FINITE PLASTIC DEFORMATION 67-04 M17-67346
INFLUENCE OF DIAMOND GRINDING ON PHYSICAL AND MECHANICAL PROPERTIES OF T15K6 CERMET AND 40KH STEEL 67-05 M17-69013
EFFECT OF PRESSING WITH A HIGH-PRESSURE APPARATUS ON WC-CO HARD METALS 67-05 M17-69864
FRICTIONAL BEHAVIOR OF CERAMIC MATERIALS 67-07 M17-74053
PREPARATION AND PROPERTIES OF CARBIDES --TI, W, CR-- C 67-08 M09-75858
FIGHT AGAINST WEAR STARTS WITH MATERIAL SELECTION 67-08 M17-74488
INVESTIGATION OF THE CUTTABILITY OF BRONZE-GRAPHITE COMPOSITES 67-08 M17-75438
FEASIBILITY OF MANUFACTURE OF HARD-ALLOY PARTS WITH VARIABLE PHYSICO-MECHANICAL PROPERTIES 67-09 M09-76911
SINTERED NICKEL-BORON NITRIDE MATERIALS 67-10 M09-78988
THE NATURE AND EFFECTS OF EXCESS CARBON DEFECTS IN TUNGSTEN CARBIDE-COBALT ALLOYS ON MECHANICAL PROPERTIES 67-10 M09-79977
EFFECTS OF CARBON CONTENT ON THE PROPERTIES OF TUNGSTEN CARBIDE-TANTALUM CARBIDE-10 PER CENT COBALT CEMENTED CARBIDE 67-10 M09-79978
ISOTHERMAL YOUNGS MODULUS OF UO2 AND UO2-MO-CERMETS 67-10 M17-78361
CARBIDE GRADE SELECTION 67-10 M17-79508
STRUCTURE AND MECHANICAL PROPERTIES OF WC-TAC-CO SINTERED CARBIDES 67-12 M17-82160

CERMETS, MECHANICAL TESTS
THE APPLICATION OF THE DIAMETRAL --SPLITTING-- TEST TO DETERMINE THE TENSILE STRENGTH, YOUNGS MODULUS AND POISSONS RATIO OF CERAMICS AND CERMETS 67-09 M17-77024

CERMETS, METAL WORKING
EXPLOSIVE METALWORKING 67-11 M08-80481

CERMETS, METALLOGRAPHY
METHODS FOR METALLOGRAPHIC PREPARATION OF UO2 AND UO2CEO2 67-06 M13-71408
PREPARATION METHOD FOR REVEALING THE STRUCTURE OF CERMETS 67-08 M13-74942

CERMETS, MICROSTRUCTURE
PREPARATION AND MICROSTRUCTURE OF CERMETS AL2O3-MO AND ZRO2-MO 67-02 M13-62112
MICROSTRUCTURE OF MOLECULAR CERMETS 67-04 M09-66263
MICROSTRUCTURE OF MOLECULAR CERMETS 67-10 M09-78995

CERMETS, OXIDATION
OXIDATION RESISTANCE OF WC-NBC-CO ALLOYS IN AIR 67-12 M18-83561

CERMETS, PHASES /STATE OF MATTER/
THE STRUCTURE OF ALLOYS IN THE ZR-C-TA SYSTEM 67-05 M13-69492
INVESTIGATION OF THE EFFECT OF THE TEMPERATURE AT WHICH TUNGSTEN CARBIDE IS PRODUCED ON THE FORMATION OF SOLID SOLUTIONS WITH A NONUNIFORM DISTRIBUTION OF THE CARBIDE PHASE 67-06 M09-70767
EACH PHASE COMPOSITION OF TIC-NI CERMET 67-09 M14-77246

CERMETS, PHYSICAL PROPERTIES
STRUCTURE AND PROPERTIES OF WC SOLID SOLUTIONS IN TIC, NBC AND TAC 67-03 M15-65797
THE USE OF MOLYBDENUM IN TIC-BASE CERMETS 67-06 M01-70003
PREPARATION AND PHYSICAL PROPERTIES OF ALLOYS OF THE W-LAB6 SYSTEM 67-07 M15-73271
CHANGE OF COMPACTNESS AND COEFFICIENT OF THE LATERAL STRAIN OF HARD ALLOYS 67-08 M15-75440

CERMETS, POWDER METALLURGY
VACUUM SINTERING OF HARD ALLOYS 67-01 M09-58172
NONFERROUS METALS AND ALLOYS PRODUCED BY POWDER METALLURGY 67-01 M09-58374
DEVELOPMENT TRENDS IN MODERN POWDER METALLURGY 67-01 M09-58717
MICROSTRUCTURE AND PROPERTIES OF TUNGSTEN-CARBIDE-COBALT HARD ALLOYS, THEIR MUTUAL EFFECTS AND THEIR DEPENDENCY ON THE INITIAL POWDERS 67-02 M09-59914
THE PREPARATION AND INVESTIGATION OF SOME TITANIUM NITRIDE-MOLYBDENUM CERMETS 67-02 M09-62106
HOT PRESSING TECHNIQUES AS APPLIED IN THE MANUFACTURE OF TUNGSTEN CARBIDE-BASE HARD-ALLOY ARTICLES 67-04 M09-67154
INVESTIGATION OF THE CONDITIONS OF THE FORMATION OF HARD ALLOYS WITH AN UNEVEN DISTRIBUTION OF THE CARBIDE PHASE. PT. 1 67-04 M09-67339
PERMANENT CERMET MAGNETS MADE FROM GROUND AND MACHINED CAST MAGNET WASTE 67-05 M09-69305
NEW HIGH-EFFICIENCY ELECTRODES--TOOLS FOR SPARK MACHINING MADE OF CERMET CHIPS 67-06 M09-72325
INVESTIGATION OF WC-CO CERMET 67-08 M09-75891
INFLUENCE OF THE GEOMETRICAL FACTOR OF SINTERED PARTS ON THE MAGNITUDE OF THEIR ELASTIC AFTER-EFFECT 67-09 M09-76921
INVESTIGATION OF VIBRATIONAL COMPACTING OF HARD ALLOY POWDERS 67-09 M09-76961
THE HARDNESS/POROSITY RELATIONSHIP IN CHROMIC$_{v}$OXIDE CERMETS 67-11 M09-81539

CERMETS, RADIATION EFFECTS
INFLUENCE OF NUCLEAR RADIATION ON PROPERTIES OF

REFRACTORY COMPOUNDS 67-05 M16-69004
CERMETS, SCRAP
PURIFYING TITANIUM SHAVINGS OF SOLID ALLOY IMPURITIES 67-12 M02-83096
CERMETS, SOLUBILITY
CONNECTION OF SOLUBILITY AND PROPERTIES OF SOLID SOLUTIONS IN BINARY SYSTEMS OF CARBIDES WITH EXCESS FREE ENERGY OF MIXING 67-06 M13-72332
CERMETS, THERMAL PROPERTIES
THERMAL STABILITY OF TUNGSTEN CARBIDE--COBALT ALLOYS 67-02 M17-59612
A CERAMIC ALLOY FOR ELEVATED TEMPERATURE DUTY 67-04 M17-66850
THERMAL SHOCK RESISTANCE OF TUNGSTEN CARBIDE-COBALT ALLOYS 67-09 M15-76930
THE DEPENDENCE ON MICROSTRUCTURE OF THE HIGH TEMPERATURE PROPERTIES OF URANIUM OXIDE MOLYBDENUM AND URANIUM OXIDE AND TUNGSTEN CERMETS. PT. 2. HEAT TRANSFER PROPERTIES 67-12 M15-82503
CERMETS, WEAR
INVESTIGATION OF CERMET STABILITY DURING CUTTING OF POROUS IRON 67-02 M09-59614
EFFECT OF COOLING LIQUID ON THE FRICTION PROCESS AND TOOL WEAR 67-03 M17-65207
MATERIALS FOR THE PROTECTION OF SURFACES AGAINST ABRASIVE WEAR 67-06 M17-70961
SERVICE LIFE OF HARD ALLOY TOOLS IN THE MACHINING OF POROUS SINTERED MATERIALS 67-09 M08-76929
CERMETS, WELDING
CONDENSER WELDING OF TOOL STEELS AND CERMETS 67-07 M11-72740
CAPACITOR DISCHARGE WELDING OF TOOL STEELS AND HARD ALLOYS 67-12 M11-82319
EXPERIENCE IN DIFFUSION WELDING OF CERMETS 67-12 M11-83565
CERMETS, X RAY DIFFRACTION
DIFFUSE X-RAY SCATTERING BY THE SOLID SOLUTION HFC-ZRC 67-02 M09-61167
CESIUM, ADSORPTION
INVESTIGATION OF ADSORPTION OF CESIUM ON A TUNGSTEN SINGLE CRYSTAL 67-06 M16-71911
INVESTIGATION OF THE ADSORPTION AND ELECTRON EMISSION OF CESIUM FILMS ON A TUNGSTEN SINGLE CRYSTAL 67-09 M13-76785
INVESTIGATION OF ADSORPTION OF CESIUM ON A TUNGSTEN SINGLE CRYSTAL 67-10 M14-79543
CESIUM, ALLOYING ADDITIVE
LOW-TEMPERATURE LATTICE THERMAL CONDUCTIVITY OF POTASSIUM-CESIUM ALLOYS 67-05 M15-69814
CESIUM, ATOMIC PROPERTIES
THERMAL EMISSION MICROSCOPE STUDIES OF CESIUM SURFACE IONIZATION ON POROUS REFRACTORY METALS 67-10 M16-79166
PHASE RELATIONS, RESISTIVITY, AND ELECTRONIC STRUCTURE OF CESIUM AT HIGH PRESSURES 67-10 M16-79414
CESIUM, COATINGS
CESIUM DEPOSITION ON STAINLESS STEEL 67-10 M12-78729
LIQUID AND SOLID CESIUM ON A RHENIUM SUBSTRATE 67-12 M14-82376
CESIUM, ELECTRICAL PROPERTIES
INFLUENCE OF INTERELECTRODE DISTANCE ON THE OPERATION OF A CESIUM THERMIONIC CONVERTER 67-06 M16-70494
ELECTRICAL RESISTIVITY OF MOLTEN CESIUM AT HIGH PRESSURES 67-11 M15-80759
CESIUM, EMISSION
CESIUM ADSORPTION ON THE FACES OF A TUNGSTEN SINGLE CRYSTAL 67-06 M14-70512
CESIUM, EXTRACTION
RECENT DEVELOPMENTS IN SOLVENT EXTRACTION TECHNOLOGY 67-02 M03-61586
CESIUM EXTRACTIVE METALLURGY--ORE TO METAL. PT. 3 67-02 M03-61587
CESIUM, INTERMETALLICS
THICKNESS OF CS-SB FILMS RELATIVE TO THE ORGINAL SB FILMS 67-01 M19-57112
THE CRYSTAL STRUCTURE OF CEFE7, PRFE7, NDFE7 AND SMFE7 67-02 M13-60888
THE CRYSTAL STRUCTURE OF THE CEAL COMPOUND 67-10 M13-79588
CESIUM, LIQUID METALS
LIQUID PHASE MAGNETOHYDRODYNAMIC GENERATORS AND THE TECHNOLOGY OF THE ALKALI METALS 67-12 M20-82835
CESIUM, REACTIONS /CHEMICAL/
REACTION OF ALUMINA WITH CESIUM VAPOR 67-04 M14-67759
THE COMPATIBILITY OF GRAPHITE WITH CESIUM 67-06 M14-71056
POROSITY EFFECTS IN THE IONIZATION OF CESIUM ON TUNGSTEN 67-09 M14-77444
OXIDATION RESISTANT, HIGH TEMPERATURE CERAMIC-TO-METAL SEAL COMPATIBLE WITH CESIUM 67-10 M11-79996
CESIUM, THERMAL PROPERTIES
EXPERIMENTAL INVESTIGATION OF THE THERMAL CONDUCTIVITY OF LIQUID CESIUM 67-09 M15-76766
CESIUM, TRANSPORT PROPERTIES
THERMIONIC PROPERTIES OF TUNGSTEN IN IODIDE VAPORS 67-09 M16-76481
ELECTRON AND ION EMISSION FROM A COPPER SURFACE IN THE PRESENCE OF OXYGEN, CESIUM AND OXYGEN PLUS CESIUM 67-09 M16-76484
CESIUM, VAPOR PHASES
CHARACTER OF INTERACTION OF ZIRCONIUM CARBIDE WITH CESIUM VAPOR 67-09 M16-76764
CESIUM COMPOUNDS, BENEFICIATION
PRODUCTION OF CESIUM SALTS 67-02 M02-61588
CESIUM EXTRACTIVE METALLURGY--ORE TO METAL. PT. 3 67-02 M03-61587
CESIUM COMPOUNDS, PHYSICAL PROPERTIES
CESIUM-ANTIMONY FILMS IN EQUILIBRIUM WITH CESIUM VAPOR 67-03 M16-65891
CESIUM COMPOUNDS, REDUCTION /CHEMICAL/
REDUCING CESIUM CHLORIDE BY SILICOCALCIUM 67-06 M03-69999
STUDY OF SILICOCALCIO-THERMAL PREPARATION OF CESIUM FROM ITS FLUORIDE 67-11 M03-81441
THERMODYNAMICS OF THE REDUCTION OF CESIUM CHLORIDE BY SILICOCALCIUM 67-11 M03-81442
CESIUM COMPOUNDS, TRANSPORT PROPERTIES
HALL EFFECT MEASUREMENTS ON AU-CS-O 67-03 M16-65753
CGF FORGING PROCESS
SEE FORGING
CHAINS, MECHANICAL PROPERTIES
STUDY ON THE FATIGUE STRENGTH OF ROLLER-CHAIN LINK PLATE. THE EFFECTS OF LINK PLATE FORM, SHOT-PEENED AND FINISHED HOLE 67-02 M17-60660
FATIGUE FAILURE OF COMPONENTS OF LIFTING MACHINERY 67-08 M17-74502
CHAINS, WELDING
AN INVESTIGATION INTO THE MANUFACTURE OF ROUND STEEL CHAINS FABRICATED BY MEANS OF BUTT-SEAM RESISTANCE WELDING 67-11 M11-80510
CHALCOPYRITE, BENEFICIATION
THE RATES OF FLOTATION OF MINERAL PARTICLES IN SULPHIDE ORES 67-05 M02-69196
COLUMN FLOTATION DEVELOPMENT USING AN 18-IN. PILOT UNIT 67-06 M03-70973
HOW SELECTIVE FLOTATION RECOVERS FOUR MINERALS--CHALCOPYRITE, GALENA, SPHALERITE AND PYRITE 67-07 M02-73214
USE OF POTASSIUM PERMANGANATE TO SEPARATE SULFIDE CONCENTRATES 67-08 M02-75170
CHAMBERS
SEE BUBBLE CHAMBERS
COMBUSTION CHAMBERS
IONIZATION CHAMBERS
CHANNEL BLACK
SEE CARBON BLACK
CHANNEL INDUCTION FURNACES
CORE-TYPE INDUCTION FURNACE WITH THE CORE BUILT INTO THE MELT 67-05 M06-69311
CORE-TYPE INDUCTION FURNACES IN GRAY CAST IRON FOUNDRIES 67-05 M06-69312
CHANNEL IRON, MECHANICAL PROPERTIES
STRENGTH OF THE BENT PROFILES OF LOW-CARBON STEEL 67-09 M17-78122
CHANNEL IRON, ROLLING
INVESTIGATION OF METAL SLIP DURING ROLLING IN CHANNEL PASSES 67-05 M07-68330
INVESTIGATING METAL SLIP IN ROLLING IN CHANNEL PASSES 67-07 M07-72858
CHANNEL IRON, SHEARING
ONE PRESS--MANY TALENTS 67-05 M07-68811
CHAPMANIZING
SEE NITRIDING
CHARCOAL, SURFACE PROPERTIES
THE ADSORPTION OF CARBON DIOXIDE ON CARBON SOLIDS. PT. 1. GRAPHITE AND DIAMOND AT 0 K 67-05 M15-69597
CHARGE /ELECTRIC/
SEE SPACE CHARGE

CHARGE PREPARATION
DISPENSING CUPOLA CHARGE MATERIALS WITH THE AID OF COMPUTERS 67-04 M04-68090
BLOWING-IN A BLAST FURNACE AFTER MAJOR REPAIRS WITHOUT REMOVAL OF THE CHARGE FROM THE BOSH ZONE 67-05 M04-69077
PREPARATION OF THE BLAST-FURNACE BURDEN 67-06 M02-72005
DEVELOPMENT OF RAPID CHARGING OF OH FURNACES AT GKIS 67-06 M04-72100
IRON FOR STEELMAKING AT APPLEBY-FRODINGHAM 67-07 M04-72412
CUPOLA OPERATION, CHEMICAL ASPECTS, CARBURIZATION, MELTING LOSSES 67-07 M04-73488
EFFECTS OF BURDEN PREPARATION ON IRONMAKING 67-08 M04-75810
THE EFFECTS OF BURDEN PREPARATION ON IRONMAKING 67-09 M02-76386
IRONMAKING TOMORROW 67-09 M04-76385
MAIN TRENDS IN THE DEVELOPMENT OF BLAST FURNACE PRACTICE 67-09 M04-76387
BLAST FURNACE PRACTICE AND TRENDS IN BLAST FURNACE OPERATION AT KONINKLIJKE NEDERLANDSCHE HOOGOVENS EN STAALFABRIEKEN NV 67-09 M04-76388
PRESENT POSITION AND FUTURE DEVELOPMENT OF PIG IRON PRODUCTION IN THE GERMAN FEDERAL REPUBLIC 67-09 M04-76389
BURDEN PREPARATION AND ITS IMPACT ON IRONMAKING AT PORT KEMBLA 67-09 M04-76391
CONTROL AND AUTOMATION OF THE BLAST FURNACE 67-09 M04-76393
THE USE OF PREREDUCED MATERIALS IN THE BLAST FURNACE. PT. 1 67-09 M04-76394
BLAST FURNACE OPERATION WITH WASHED BURDEN MATERIALS 67-09 M04-76726
EFFECTS OF BURDEN SIZING ON BLAST FURNACE OPERATION 67-09 M04-76727
THE STATE-OF-THE-ART OF BURDEN PREPARATION IN FRANCE 67-09 M04-78044
BURDEN PREPARATION FOR OPTIMUM BLAST-FURNACE PERFORMANCE 67-10 M04-78327
ELECTRIC ARC STEELMAKING WITH CONTINUOUSLY CHARGED REDUCED PELLETS 67-10 M04-78616
TECHNOLOGICAL PROBLEMS OF THE MAXIMUM UTILIZATION OF HOMOGENIZING INSTALLATIONS IN THE CZECH PEOPLES REPUBLIC 67-10 M04-78648
THE BLOWING OF HEAVY HEATING OIL INTO THE BLAST FURNACE 67-10 M04-78650
PHYSICAL PROPERTIES OF HIGH-MAGNESIAL BLAST FURNACE SLAGS 67-10 M04-79318
UTILIZATION OF DUST FROM STEELMAKING PROCESS AS BRIQUETS 67-11 M04-80502
REDUCTION OF IRON ORES IN THE BLAST FURNACE STACK 67-11 M04-80795
RADIOGRAPHIC DETERMINATION OF MOISTURE IN COKE--A FURTHER STEP IN THE RATIONALIZATION AND AUTOMATION OF BLAST FURNACE OPERATION 67-11 M19-80336
CHARGE PREPARATION, AUTOMATION
BLAST FURNACE CHARGING 67-07 M04-73327
AUTOMATIC PELLET CHARGE CONTROL FOR ROASTING PLANT 67-08 M02-74895
CHARGED PARTICLES
SEE BETA RAYS
DEUTERONS
ELECTRONS
PHOTOELECTRONS
PROTONS
CHARGING
ON THE MECHANISM OF THE DESCENT OF THE BURDEN IN THE COMBUSTION REGION OF A BLAST FURNACE UNDER FORCED OPERATION 67-02 M04-59875
A SINGLE-BELL CHARGING APPARATUS FOR BLAST FURNACES 67-02 M04-61864
EFFECT OF THE POSITION OF THE CHARGING FUNNEL ON BLAST FURNACE PRODUCTIVITY 67-02 M04-62137
AN AUTOMATIC METER FOR MEASURING CHARGE CONTOUR IN A BLAST FURNACE 67-02 M04-62138
USE OF HIGH-BASICITY SINTERS INSTEAD OF IRON ORE IN THE CHARGE OF OPENHEARTH FURNACES 67-02 M04-62140
FUNDAMENTALS OF CALCULATING CUPOLA CHARGE COMPOSITION FOR UNALLOYED GRAY IRONS 67-02 M06-59080
SINGLE-BELL BLAST-FURNACE CHARGING GEAR 67-04 M04-67683
EFFECT OF SCRAP QUALITY AND CHARGING CONDITIONS ON THE PERFORMANCE AND COSTS OF AN OPENHEARTH FURNACE 67-04 M04-68006
HIGH SCRAP CHARGE IN THE BOF UTILIZING SOLID FUEL 67-04 M04-68108
USING HIGH BASICITY SINTER INSTEAD OF IRON ORE IN THE OPEN-HEARTH FURNACE CHARGE 67-04 M04-68182
EFFECT OF THE AMOUNT OF HOT METAL CHARGED UPON THE BASIC OXYGEN LD PROCESS 67-05 M04-69064
MATERIAL AND GAS FLOW DISTRIBUTION DURING CHANGES IN DISTRIBUTOR ROTATION PROGRAM 67-05 M04-69677
ACTION OF A THROAT ARMOUR OF VARIABLE DIAMETER ON THE GAS FLOW IN A BLAST FURNACE 67-06 M04-71438
BLAST FURNACE PRACTICE WITH IMPORTED PELLETS VS SINTER AT NO. 2 TABATA --JAPAN--BLAST FURNACE 67-06 M04-72131
OPERATION OF THE HIROHATA --JAPAN--BASIC OXYGEN LD PLANT ON LOW HOT METAL CHARGES 67-06 M04-72284
THE CHARGING OF SEMIKILLED STEEL INGOTS IN THE UPSIDE DOWN POSITION IN THE SOAKING PITS 67-06 M04-72292
THE GAS PERMEABILITY OF PELLETS IN THE BLAST FURNACE 67-06 M04-72294
EFFECT OF LANCE NOZZLE CONDITION AND METHOD OF CHARGING FLUXES AS COOLANTS UPON THE SLAG IRON CONTENT. PT. 1. STUDY OF SLAG IRON CONTENT IN LOW-CARBON STEELMAKING BY THE BASIC OXYGEN LD PROCESS 67-07 M04-72445
COMPARATIVE ASSESSMENT OF THE PRODUCTION PERFORMANCE OF BLAST FURNACES 67-07 M04-73110
SCRAP PREPARATION AND ITS SIGNIFICANCE IN OPENHEARTH STEELMAKING 67-07 M04-73237
DISTRIBUTION OF MATERIALS AND GAS FLOW WITH CHANGES IN ROTATION PROGRAMME OF THE DISTRIBUTOR 67-07 M04-74063
CERTAIN FACTORS IN THE TECHNOLOGY FOR CASTING BLAST-FURNACE CHARGING BELLS AND HOPPERS 67-07 M04-74138
A MASS CHARGING MACHINE FOR OPENHEARTH FURNACES 67-07 M04-74171
NEW STOCKLINE ARMOR DESIGN. VARIABLE-DIAMETER STOCKLINE ARMOR FOR BLAST FURNACES 67-08 M04-74468
ON THE OPTIMUM FREQUENCY OF REVERSING THE CONE OF AN OPENHEARTH FURNACE 67-08 M04-74594
UTILIZATION OF PARTIALLY REDUCED ORE FOR CUPOLA CHARGE 67-08 M04-74675
SWAYING OF THE BIG BELL OF BLAST-FURNACE CHARGING GEAR 67-08 M04-75710
OPERATING WITH IRON ORE PELLETS 67-09 M04-76390
THE USE OF PREREDUCED MATERIALS IN THE ELECTRIC IRONMAKING FURNACE. PT. 2 67-09 M04-76395
CHARGE DISTRIBUTER FOR BLAST FURNACES 67-09 M04-76830
LARGE VIBROCHUTES FOR CHARGING BURDEN TO OPENHEARTHS 67-09 M04-76892
RESEARCH IMPROVES RAW MATERIAL HANDLING TECHNIQUES 67-11 M04-81493
CHARGING, AUTOMATION
BLAST FURNACE CHARGING 67-05 M04-69171
BLAST FURNACE AUTOMATION 67-08 M04-74466
AUTOMATIC CHARGING OF BLAST FURNACES 67-08 M04-75793
CHARPY IMPACT TESTS
SEE IMPACT TESTS
CHARPY KEYHOLE NOTCH TEST
SEE IMPACT TESTS
CHARPY U NOTCH TEST
SEE IMPACT TESTS
CHARPY V NOTCH TEST
SEE IMPACT TESTS
CHARRING
SEE COMBUSTION
CHASSIS, COATING
LANDROVER CHASSIS DIPPING PLANT 67-02 M12-60929
CHASSIS, WELDING
FLASH WELDING AT THE GORKY AUTOMOBILE WORKS 67-02 M11-60007
CHATTER
SEE VIBRATION
CHEMICAL ANALYSIS
SEE ALSO CHROMATOGRAPHIC ANALYSIS
COLORIMETRIC ANALYSIS
CONDUCTIOMETRIC ANALYSIS

ELECTROLYTIC ANALYSIS
ELECTROPHOTOMETRY
FLAME PHOTOMETRY
FLAME SPECTROSCOPY
GAS ANALYSIS
GRAVIMETRIC ANALYSIS
INFRARED SPECTROSCOPY
MICROANALYSIS
NEUTRON ACTIVATION ANALYSIS
POLAROGRAPHIC ANALYSIS
QUALITATIVE ANALYSIS
QUANTITATIVE ANALYSIS
SPECTROCHEMICAL ANALYSIS
SPECTROSCOPIC ANALYSIS
VACUUM FUSION ANALYSIS
VOLUMETRIC ANALYSIS

PROGRESS IN OPEN HEARTH STEELMAKING
67-01 M04-58501
OXIDE INCLUSIONS FORMED IN THE STEELS OF FE-CR-O SYSTEM 67-01 M04-58597
DISTRIBUTION OF ARSENIC IN CARBON STEEL IN THE CRITICAL TEMPERATURE AREA 67-01 M13-57186
INVESTIGATION OF QUANTITATIVE ANALYTICAL METHOD WITH X-RAY FLUORESCENCE. --REPORT 5--. CORRECTION METHOD OF THE MATRIX EFFECT ON THE DETERMINATION OF COPPER AND ZINC IN BRASSES
67-01 M19-57451
POLAROGRAPHIC METHODS OF SIMULTANEOUS DETERMINATION OF TIN, NICKEL, LEAD AND ZINC IN BRONZE
67-01 M19-57495
HOW IMPURITY DETECTION IN ALUMINUM STANDS TODAY
67-01 M19-58095
DETERMINING HYDROGEN CONTENT IN NIOBIUM BY HIGH-TEMPERATURE VACUUM HEATING 67-01 M19-58206
RAPID DETERMINATION OF SILICON IN GRAY IRON
67-01 M19-58359
THE DETERMINATION OF SULFATE IN CHROMIUM-PLATING BATHS 67-01 M19-58439
CESIUM EXTRACTIVE METALLURGY--ORE TO METAL. PT. 3
67-02 M03-61587
PRECISION COMPARISON OF FLUORESCENT X-RAY ANALYSIS BY THE LOOSE POWDER AND BRIQUET TECHNIQUES
67-02 M04-59122
EFFECT OF BORON ON INTERFACIAL DISTRIBUTION OF ELEMENTS IN WHITE CAST IRON AND THEIR REDISTRIBUTION DURING ANNEALING
67-02 M06-61807
NEW METHOD FOR THE DETERMINATION OF AUSTENITE IN STEELS 67-02 M13-60693
THE ABSOLUTE DETERMINATION OF THE THICKNESS AND COMPOSITION OF SURFACE LAYERS WITH A MICROPROBE
67-02 M19-59087
SAMPLE PREPARATION AND REPRODUCIBILITY IN SPECTROGRAPHIC ANALYSIS OF HIGH-ALLOY STEELS
67-02 M19-59165
SN, FE, AND NICKEL DETERMINATIONS BY SPECTROPHOTOMETRY IN COPPER ALLOYS
67-02 M19-59166
SPECTROPHOTOMETRIC DETERMINATION OF GOLD IN TITANIUM ALLOYS, USING THE COLOR-REACTION OF M-SN-CL SYSTEM 67-02 M19-59720
THE PROBLEM OF FERRITE DETERMINATION IN AUSTENITIC WELDS 67-02 M19-59968
METHOD OF AND APPARATUS FOR DETERMINING THE OXYGEN CONTENT OF METALS 67-02 M19-60942
SOME ASPECTS OF THE CHEMICAL DETERMINATION OF NITROGEN IN CHROMIUM AND COMPLEX CHROMIUM ALLOYS
67-02 M19-61567
ON THE CHEMICAL COMPOSITION OF SURFACE FILMS PRODUCED ON GERMANIUM IN DIFFERENT ETCHANTS
67-02 M19-61573
STEELOSCOPE DETERMINATION OF SULFUR IN SULFIDIZED CERMET PARTS 67-02 M19-62116
DETERMINATION OF OXYGEN IN AL AND ZR BY IRRADIATION WITH HE IONS 67-02 M19-62194
DEVELOPMENT AND APPLICATION OF RAPID CARBON DETERMINATION FOR OPEN HEARTH CONTROL
67-03 M04-65529
RESIDUAL METALS IN OPEN HEARTH STEEL
67-03 M04-65542
ANALYTICAL PROCEDURES FOR A VANADIUM RECOVERY PROCESS 67-03 M19-65122
ACTIVATION ANALYSIS OF CERTAIN METALLOIDS IN THE TRACE CONDITION IN ULTRAPURE BERYLLIUM
67-03 M19-65250
OXYGEN ANALYSIS AS A NONAID TO RIMMING STEEL PRODUCTION 67-03 M19-65464
MINERALOGICAL COMPOSITION OF LIME-SPODUMENE CAKES
67-03 M19-65778
USE OF CORRELATION ANALYSIS AND COMPUTERS TO STUDY THE PROCESS OF TITANIUM SLAG SMELTING
67-04 M02-67531
INVESTIGATION OF CARBIDES IN TEMPERED HIGH-CARBON STEELS 67-04 M13-66006
AN X-RAY FLUORESCENT METHOD FOR THE DETERMINATION OF COPPER IN SILVER-COPPER ALLOYS
67-04 M19-66105
DETERMINATION OF NIOBIUM IN MILD AND LOW-ALLOY STEELS 67-04 M19-67418
EXPRESS DETERMINATION OF THE PHASE COMPOSITION OF ARTIFICIAL CARNALLITE 67-04 M19-67530
THE DETERMINATION OF THE FERRITE CONTENT OF AUSTENITIC STEEL WELDS 67-04 M19-68002
CONTINUOUS MEASUREMENT OF SINTER QUALITY
67-05 M02-68537
METHODS OF DETERMINING GOLD AND SILVER IN RICH PRODUCTS 67-05 M19-68409
PHASE ANALYSIS BY CHEMICAL METHODS IN ORES AND MINE PRODUCTS 67-05 M19-69120
ANALYSIS OF BINARY ALLOYS FROM THE THERMO-EMF AND TEMPERATURE COEFFICIENT OF ELECTRICAL RESISTIVITY
67-05 M19-69306
A RAPID METHOD FOR DETERMINING THE BASICITY OF BLAST FURNACE SLAGS 67-05 M19-69607
REMOVAL OF CERIUM FROM SAMARIUM BY THE AMALGAM METHOD 67-06 M03-70158
CONTRIBUTION TO THE PROBLEM OF DETERMINING THE FREE AND THE COMBINED NITROGEN IN STEELS
67-06 M04-71752
RAPID ANALYSIS IN ELECTROLYTIC OPERATIONS
67-06 M12-72156
THE COMPOSITION OF NONMETALLIC INCLUSIONS IN ALUMINUM-ALLOYED STEELS 67-06 M13-70272
DETERMINATION OF OXYGEN IN TITANIUM BY ISOTOPIC DILUTION 67-06 M19-69904
ESTIMATING THE ACCURACY OF DETERMINING SMALL AMOUNTS OF TIN IN TIN CONCENTRATES BY RADIOACTIVE TRACERS 67-06 M19-70340
ANALYSIS OF THE CONTAMINANTS IN NICKEL OF GRADED PURITY 67-06 M19-70401
LABELLING OF METALLIC MATERIALS WITH RADIOACTIVE TRACER ELEMENTS 67-06 M19-70837
RAPID CARBON ANALYSIS --LECO-- 67-06 M19-71390
BREAKTHROUGH IN ANALYSIS OF LIGHT ELEMENTS
67-06 M19-72003
THE IDENTIFICATION OF SMALL QUANTITIES OF MATERIAL BY EXO ELECTRONS 67-06 M19-72143
ANALYSIS OF COPPER AND ITS ALLOYS
67-07 M01-72927
CONTROL OF SCRAP COMPOSITION FOR CARBON STEELS
67-07 M04-72414
SOME IMPORTANT TECHNIQUES IN CORROSION STUDIES
67-07 M18-73300
DETERMINATION OF ALUMINUM AND ITS STATES OF COMBINATION IN PLAIN CARBON STEELS
67-07 M19-72898
CONTROL AND ADJUSTMENT OF SILICON CONTENT IN TRANSFORMER STEELS 67-07 M19-73086
DETERMINATION OF THE SULFUR CONTENT OF IRON AND STEEL 67-07 M19-73239
BORON DETERMINATION IN BORON STEEL ALLOYS BY AUTORADIOGRAPHIC METHODS 67-07 M19-73729
PHASE ANALYSIS OF METALLIC COMPOUNDS
67-07 M19-73893
CARBON ANALYSIS SPEEDED BY NEW DEVICE
67-07 M19-74008
MEASURING THE TEMPERATURE OF MOLTEN IRON WITH AN OPTICAL PYROMETER 67-07 M19-74039
THE DETERMINATION OF HYDROGEN IN THE FREITAL SPECIAL STEEL WORKS 67-07 M19-74107
MASS SPECTROMETRY AND ITS APPLICATIONS IN METALLURGY AND MATERIALS SCIENCE
67-07 M19-74269
CARBON DISTRIBUTION DURING PELLETIZATION OF SINTER CHARGE 67-08 M02-74573
EFFECT OF COMPOSITIONAL VARIATIONS ON THE QUALITY OF ZINC-LEAD SINTER 67-08 M03-76059
EFFECT OF TECHNOLOGICAL FACTORS ON IRON OXIDE CONTENT IN OXYGEN-CONVERTER SLAG
67-08 M04-74576
IRON FOR STEELMAKING AT CORBY 67-08 M04-74656
STATISTICAL FORECASTING OF LADLE IRON CHEMISTRY
67-08 M04-74887
RADIOISOTOPE X-RAY FLUORESCENCE AND RADIATION SCATTER TECHNIQUES IN MINING AND METALLURGY
67-08 M19-74669
THE ANALYTICAL CHEMISTRY OF SILVER
67-08 M19-75632

CHEMICAL ANALYSIS

THE ANALYSIS OF HIGHLY ALLOYED STEELS BY X-RAY FLUORESCENCE SPECTROMETRY 67-08 M19-75989
THE USE OF HIGH-TEMPERATURE PREMIXED FLAMES IN ATOMIC ABSORPTION SPECTROSCOPY APPLIED TO STEEL WORKS ANALYSES 67-08 M19-76193
INFLUENCE OF BORON ON THE PHASE DISTRIBUTION OF ELEMENTS IN WHITE IRON AND THEIR REDISTRIBUTION DURING ANNEALING 67-09 M06-78079
ROLE OF CHEMICAL ANALYSIS IN STEEL PRODUCTION 67-09 M19-76419
IDENTIFICATION OF SEVERAL ELEMENTS AND QUANTITATIVE DETERMINATION OF NICKEL AND COPPER IN COINS BY A COMBINED ELECTROGRAPHIC-RING OVEN TECHNIQUE 67-09 M19-77257
BORON DETECTION IN METALS BY ALPHA-PARTICLE TRACKING 67-09 M19-77432
MICROANALYSIS OF INCLUSIONS IN IRRADIATED UO2 67-09 M19-77468
ANALYSIS OF THE HEAVY ELEMENT IN ALLOYS AND ORES BY BETA-RAY BACKSCATTERING 67-09 M19-77570
FLUORESCENT X-RAY ANALYSIS OF IRON ORES, REFRACTORY BRICKS AND SLAGS--ERRORS OF DETERMINATION 67-09 M19-77986
A SPEEDY METHOD FOR DETERMINING THE CARBON CONTENT OF LIQUID STEEL 67-09 M19-78277
FERRITE IN AUSTENITIC STAINLESS STEEL WELDS 67-10 M13-79478
A TEST FOR DETERMINING CARBON EQUIVALENT OF HYPEREUTECTIC CAST IRON 67-10 M19-79292
OXYGEN CONTENT IN LOW-CARBON RIMMED STEEL 67-10 M19-79321
RAPID ANALYTICAL TECHNIQUE FOR STEELMAKING USING PIN SAMPLES AND OPTICAL EMISSION VACUUM DIRECT READING SPECTROMETER 67-10 M19-79439
THE ELECTRON PROBE MICROANALYZER 67-11 M19-81468
PROGRESS WITH THE ELECTRON PROBE MICROANALYZER-- 1966. QUANTITATIVE X-RAY MICROANALYSIS 67-11 M19-81469
ON THE DETERMINATION OF OXYGEN, NITROGEN AND HYDROGEN IN HIGH-MELTING POINT METALS. PT. 1. LITERATURE REVIEW 67-12 M19-81823
ON THE DETERMINATION OF OXYGEN, NITROGEN AND HYDROGEN IN HIGH-MELTING POINT METALS. PT. 2. RESEARCH ON OPTIMUM ANALYSIS CONDITIONS FOR OXYGEN DETERMINATION IN MOLYBDENUM, USING THE VACUUM EXTRACTION METHOD 67-12 M19-81824

CHEMICAL ANALYSIS, AUTOMATION

THE WOSTHOFF AUTOMATIC CARBON DETERMINATION APPARATUS 67-09 M19-77705

CHEMICAL ANALYSIS, CONTROL SYSTEMS

RECENT AND FUTURE DEVELOPMENTS IN THE CHEMICAL CONTROL OF STEEL COMPOSITION AND MANUFACTURE 67-06 M19-72007

CHEMICAL ATTACK

SEE ALSO INTERGRANULAR CORROSION
INVESTIGATIONS ON THE CORROSION OF ZIRCONIUM IN ELECTROLYTIC SOLUTIONS BY THE USE OF RADIONUCLIDES 67-01 M18-58385
INVESTIGATION OF ATTACK OF PURE RHENIUM AND TUNGSTEN BY MOLTEN LANTHANUM AND CERIUM 67-02 M14-62285
INVESTIGATION OF WEAR PHENOMENA OF BLAST FURNACE LININGS 67-03 M04-65922
METAL CONTAINERS FOR THE TRANSPORTING AND STORAGE OF CHEMICALS 67-03 M20-65728
REACTION OF ALUMINA WITH CESIUM VAPOR 67-04 M18-66138
FACTORS AFFECTING WATER CONTENT NEEDED TO PASSIVATE TITANIUM IN CHLORINE 67-08 M18-76186
THE ANODIC DISSOLUTION OF ELECTRODEPOSITED NICKEL 67-10 M14-79966

CHEMICAL BONDS

CALCULATION OF CLEAVAGE CHARACTERISTICS OF HEXAGONAL-CLOSE-PACKED CRYSTALS 67-01 M13-58456
NATURE OF METALLIC PHASES 67-01 M16-58138
PREPARATION OF REFRACTORIES FROM CARBORUNDUM WITH NITRIDE BINDER AND FROM SI3N4-SIC MATERIALS 67-02 M05-62110
NATURE OF THE CHEMICAL BOND IN THE CARBIDES AND NITRIDES OF TRANSITION METALS 67-02 M16-61671
MAGNETIC SUSCEPTIBILITY OF GROUP 2, GROUP 4 SEMICONDUCTOR ZNO 67-03 M15-65919
FORCES BINDING PLASMA COATINGS TO THE BASE 67-04 M12-67338
BONDING, LATTICE PARAMETER, DENSITY AND DEFECT STRUCTURE OF TIN CONTAINING AN EXCESS OF N 67-04 M13-66537
INTERATOMIC FORCES AND CHEMICAL BONDING ENERGIES 67-05 M16-68988
THE COMPATIBILITY OF GRAPHITE WITH CESIUM 67-06 M14-71056
TEMPERATURE-DEPENDENT ISOMER SHIFT AND ANHARMONIC BINDING OF SN119 IN NB3SN 67-06 M16-71173
BONDING AS REVEALED BY CRYSTAL MORPHOLOGY 67-07 M13-73665
BONDING AS REVEALED BY CATALYTIC BEHAVIORS 67-07 M14-73667
AVERAGE HEATS OF ATOMIZATION AND THE IV-VI COMPOUND SEMICONDUCTORS 67-07 M15-73182
THEORIES OF BONDING IN METALS AND ALLOYS 67-07 M16-73662
CHEMISTRY 67-08 M01-75701
THE REFINEMENT OF THE STRUCTURES OF THE INTERMETALLIC PHASES REAL6 AND TCAL6 67-08 M13-76137
FUTURE DEVELOPMENTS IN THE SPECTROSCOPY OF HIGH-TEMPERATURE MOLECULES 67-09 M16-77502
BOND AND MOLECULAR POLARIZABILITIES, MEAN AMPLITUDES OF VIBRATION AND THERMODYNAMIC FUNCTIONS OF THORIUM OXIDE AND ZIRCONIUM OXIDE 67-09 M16-77526
BAND STRUCTURE AND BONDING IN TITANIUM CARBIDE METALS. AMERICAN SOCIETY FOR METALS, METALS PARK, 67-10 M16-78306
STUDY OF ATOMIC INTERACTION IN ALLOYS OF THE COLUMBIUM-TUNGSTEN-MOLYBDENUM SYSTEM 67-10 M16-79730
DETERMINING THE STRENGTH OF THE INTERATOMIC BOND BY THE CHARACTERISTIC TEMPERATURE 67-10 M17-79231
CHEMICAL BOND AND STRUCTURE OF THE TERNARY COMPOUND INASTE 67-11 M01-80234
THERMAL-EXPANSION COEFFICIENTS OF SELENIUM AND GALLIUM SELENIDE FROM X-RAY STRUCTURAL ANALYSIS DATA IN ASSOCIATION WITH THE CHEMICAL BOND 67-11 M13-80176
REACTIVE DIFFUSION OF ANTIMONY AND ZINC WITH ELEMENTS OF THE SIXTH GROUP AND ENERGY OF THE CHEMICAL BOND 67-11 M14-80164
THE CHEMICAL BOND AND THE STRUCTURE OF VALENCE BANDS IN COVALENT SEMICONDUCTORS 67-11 M15-80154
CHANGE IN THE CHARACTER OF THE CHEMICAL BOND ON MELTING COMPOUNDS WITH THE NACL AND CAF2 TYPE OF LATTICE 67-11 M15-80163
ELECTRICAL AND OPTICAL PROPERTIES OF SEMICONDUCTING COMPOUNDS OF THE A2VB3VI TYPE AND THE CHEMICAL BOND 67-11 M15-80169
USE OF THE SCRATCH METHOD FOR STUDYING ANISOTROPY IN THE PROPERTIES OF CERTAIN CRYSTALS WITH BONDS OF A PREDOMINANTLY COVALENT CHARACTER 67-11 M15-80171
CERTAIN QUESTIONS REGARDING THE CHEMICAL BOND IN SEMICONDUCTORS 67-11 M16-80153
DISTRIBUTION OF ELECTRON DENSITY AND BOND ENERGY IN SEMICONDUCTING COMPOUNDS OF THE A3 B5 TYPE 67-11 M16-80157
ATOMIC SCATTERING OF X-RAYS AND THE ELECTRON DENSITY OF IRON AND SILICON 67-11 M16-80158
THE CHEMICAL BOND IN SEMICONDUCTORS OF THE A2 3 B3 6 TYPE 67-11 M16-80173
SOME CHARACTERISTICS OF THE CHEMICAL BOND IN MULTICOMPONENT SEMICONDUCTING COMPOUNDS 67-11 M16-80174
THE CHEMICAL BOND IN BISMUTH TELLURIDE 67-11 M16-80175
THE COHESIVE ENERGY OF TIO2 --RUTILE-- 67-11 M16-81681
ELASTIC CONSTANTS OF TRIGONAL SELENIUM 67-11 M17-81099
FORCE CONSTANTS OF INTERATOMIC BONDS IN METALLIC SOLID SOLUTIONS 67-12 M14-82047
SOME NEW PHASES OF THE MN5SI3 TYPE 67-12 M14-82052

CHEMICAL BONDS, PHASE TRANSFORMATIONS

THE NATURE OF THE CHEMICAL BOND IN PHASES OF THE IRON-CARBON SYSTEM 67-01 M13-58146

CHEMICAL BONDS, RADIATION EFFECTS

CONFIGURATION OF INTERSTITIAL ATOMS IN IRRADIATED GRAPHITE 67-03 M15-65918

CHEMICAL BRIGHTENING /POLISHING/

SEE CHEMICAL POLISHING

CHEMICAL CLEANING

SEE ALSO ACID CLEANING

ALKALINE CLEANING
ANODIC CLEANING
DEGREASING
ELECTROCHEMICAL CLEANING
PICKLING
ULTRASONIC CLEANING
ULTRASONIC DEGREASING
VAPOR DEGREASING
PICKLING ACIDS AND INHIBITORS 67-02 M12-59004
MACHINE UNIT FOR CONTINUOUS STRAND PICKLING AND SURFACE TREATMENT OF WIRE RODS IN HELICAL MOVEMENT 67-02 M12-59006
MODERN PRACTICES FOR FINISHING ALUMINUM--CLEANING AND BRIGHTENING 67-02 M12-59464
PROBLEMS IN FINISHING ALUMINUM CASTINGS 67-02 M12-60681
SURFACE APPEARANCE OF COPPER-COBALT-BERYLLIUM STRIP PICKLED AFTER QUENCHING 67-02 M12-61999
HOW TO PREPARE THE SURFACE OF METALS AND NONMETALS FOR ADHESIVE BONDING 67-06 M12-70030
CLEANING AND DEGREASING PLANTS FOR SMALL PARTS 67-06 M12-71595
ELECTROLYTIC DESCALING IN ALKALI SOLUTIONS 67-06 M12-71811
METAL CLEANING NAD DEGREASING--THE BASIS OF EFFECTIVE SURFACE FINISHING 67-08 M12-74526
CHEMICAL PRETREATING AND FINISHING 67-08 M12-74854
CHEMICAL TREATMENT OF METAL SURFACES PRIOR TO PAINTING 67-09 M12-78196
ADHESION THEORY--INITIAL CONSIDERATIONS, DESIGN REQUIREMENTS AND BONDING AGENTS 67-10 M11-79689
CHEMICAL DERUSTING IN THE PRODUCTION LINE 67-12 M12-82131
PROGRESS IN CLEANING VARIOUS METALS 67-12 M12-82381

CHEMICAL COMPOSITION
THE DEVELOPMENT OF CHEMICAL HETEROGENEITY AT THE FUSION BOUNDARY IN WELDED JOINTS 67-04 M11-67347
MICROANALYSIS OF SULFIDE INCLUSIONS IN THE REGION OF AN INVERTED V SEGREGATE OF A STEEL INGOT 67-04 M19-67272
ELECTRON PROBE MICROANALYSIS OF SUBMICROSCOPIC PRECIPITATES IN STAINLESS STEEL 67-04 M19-67274
INVESTIGATION OF THE CR-SI SYSTEM IN THE DISILICIDE REGION 67-05 M16-68708
STUDY OF THE CHEMICAL COMPOSITION AND STRUCTURE OF ALUMINOSODIUM SILICATES AND WAYS OF REDUCING SODIUM LOSSES IN THE BAYER PROCESS 67-06 M03-70915
DETERMINATION OF HYDROGEN IN STEELMAKING SLAGS 67-07 M04-72897
THICKNESS DEPENDENCE OF THE COMPOSITION IN ELECTROPLATED NI-FE CYLINDRICAL FILMS 67-07 M12-73594
EFFECTS OF COMPOSITION AND COOLING RATE ON THE INITIAL PERMEABILITY OF MUMETAL 67-07 M15-73534
FACTORS AFFECTING THE PROPERTIES OF CAST 13 PER CENT CR STEELS 67-07 M17-72755
RESULTS OF THE INVESTIGATION OF THE COMPOSITION OF MAGNESIUM CHROMIUM OXIDE 67-08 M09-74907
DISTRIBUTION OF GOLD AND SILVER IN LEAD SMELTING PRODUCTS 67-09 M03-77111
OPERATIONAL ASPECTS OF CONTROL OF COMPOSITION IN STEELMAKING IN AUSTRALIAN STEEL PLANTS 67-09 M04-76421
EXPERIMENTAL ALLOY ANALYSIS BY X-RAY SPECTROSCOPY 67-09 M19-76746
DETERMINATION OF NITROGEN IN STEELS AND CAST IRONS BY MEANS OF REDUCTIVE MELTING 67-10 M19-78680
EFFECT OF INCREASED COIL WEIGHTS ON THE PROPERTIES OF WIRE ROD AND ON ITS PREPARATION FOR DRAWING 67-11 M07-80364
COMPOSITIONAL CHANGES IN THE UNDERLYING ALLOY DURING THE PROTECTIVE OXIDATION OF ALLOYS 67-11 M18-81587
SPECTROGRAPHIC CONTENTS OF CR AND NI IN STEELS DETERMINED BY LASER EXCITATION 67-11 M19-80250
THE AIR OXIDATION OF LOW-CARBON RIMMING STEEL DURING THE RIMMING PERIOD 67-12 M04-81743
INVESTIGATION OF THE CR-SI SYSTEM IN THE DISILICIDE REGION 67-12 M16-82684
EFFECT OF CONTROLLED HEAT TREATMENT ON PROPERTIES OF AL-ZN-MG-CU ALLOYS 67-12 M17-82711

CHEMICAL COMPOSITION, ALLOYING EFFECTS
THE INFLUENCE OF CO, MO, NI, V AND W ON THE ACTIVITY OF C IN LIQUID STEEL WITH HIGHER C CONTENTS 67-12 M15-82395

CHEMICAL COMPOSITION, QUALITY CONTROL
STEEL COMPOSITION REQUIREMENTS OF THE AUTOMOBILE INDUSTRY 67-09 M10-76417

CHEMICAL ELEMENTS
THE PERIODIC TABLE OF ELEMENTS AND PROBLEMS OF METAL CHEMISTRY 67-05 M01-68373

CHEMICAL ENGINEERING
NEW STEELS FOR THE CPI 67-04 M01-66588
PRESSURE IN THE CHEMICAL INDUSTRY 67-04 M01-67296
THE DESIGN OF CHEMICAL PLANT IN CHROMIUM AND STAINLESS STEEL. PT. 1 67-06 M20-70557
TITANIUM.. METAL WITH UNIQUE PROPERTIES 67-06 M20-70841

CHEMICAL ENGINEERING, CORROSION ENVIRONMENTS
CORROSION RESISTANCE OF WELDED JOINTS OF HEAT RESISTANT STEELS WHEN USED IN THE PRODUCTION OF METHANOL AND ISOBUTANOL 67-03 M18-65060
CORROSION RESISTANCE OF WELDED JOINTS IN HEAT RESISTING STEELS FOR METHANOL AND ISOBUTANOL PRODUCTION PLANT 67-07 M18-73978

CHEMICAL ENGINEERING, MATERIALS
STAINLESS STEEL AND THE CHEMICAL INDUSTRY 67-03 M20-65462
MATERIALS OF CONSTRUCTION 67-03 M20-65696
A. C. I. TYPE CK-20 --CORROSION & HEAT RESISTING STEEL-- 67-04 M01-68071
PROPERTIES OF OXYGEN-CONVERTER VKST. 3KP STEEL 67-05 M17-69042
TITANIUM IN PROCESS EQUIPMENT 67-05 M20-68683
TRENDS IN ALUMINIUM FABRICATION 67-05 M20-69544
STAINLESS AND SPECIAL ALLOY STEELS 67-05 M20-69547
CONSTRUCTION MATERIALS FOR PHOS-ACID MANUFACTURE 67-06 M20-71496
CORROSION RESISTANT MATERIALS IN ACYLATING HYDROLYZING MEDIA IN THE PRODUCTION OF CELLULOSE ACETOBUTYRATE 67-07 M18-72872

CHEMICAL EQUILIBRIUM
SLAG-METAL EQUILIBRIA IN TIN SMELTING 67-02 M03-60255
DISTRIBUTION OF SULPHUR AND OXYGEN BETWEEN IRON AND A LIME-ALUMINA SLAG DURING LEVITATION MELTING 67-02 M04-59877
ON THE P-T-C-REPRESENTATION OF THE NIOBIUM-OXYGEN AND TANTALUM-OXYGEN SYSTEMS 67-02 M13-61889
EQUILIBRIUM CONCENTRATION OF HYDROGEN IN MOLTEN ALUMINUM IN THE ORDINARY ATMOSPHERE 67-02 M14-61025
CESIUM-ANTIMONY FILMS IN EQUILIBRIUM WITH CESIUM VAPOR 67-03 M16-65891
DISTRIBUTION OF MANGANESE IN THE METAL-SLAG SYSTEM IN THE CONVERTER PROCESS 67-04 M04-66847
EFFECT OF ALUMINUM ON THE ACTIVITY OF OXYGEN DISSOLVED IN MOLTEN IRON 67-04 M14-66953
STUDY OF SLAG-METAL EQUILIBRIA BY LEVITATION MELTING.. APPLICATION TO THE FE-MN-O SYSTEM 67-04 M14-66984
EXTRACTION OF PLUTONIUM FROM URANIUM-PLUTONIUM ALLOY WITH URANIUM TRICHLORIDE 67-04 M14-68119
EFFECT OF NITROGEN ON SURFACE TENSION OF LIQUID IRON AND ITS ALLOYS 67-04 M15-66607
THE EQUILIBRIUM COTTRELL ATMOSPHERE AND THE DISCONTINUOUS YIELD IN TANTALUM-OXYGEN 67-04 M17-66069
HIGH-TEMPERATURE CHEMICAL STABILITY 67-05 M15-68996
CHEMICAL EQUILIBRIUM AND ITS APPLICATION TO METALLURGICAL REACTIONS 67-06 M04-71193
EQUILIBRIA IN THE IRON-CARBON-OXYGEN SYSTEM IN THE TEMPERATURE AND CONCENTRATION RANGE OF LIQUID STEEL, AND HOW IT IS INFLUENCED BY PHOSPHORUS, MANGANESE, AND SULPHUR 67-06 M13-70257
A DUAL GRAPHIC REPRESENTATION OF THE BLAST FURNACE MASS AND HEAT BALANCES 67-07 M04-73098
DIRECT ELECTROCHEMICAL DETERMINATION OF THE OXYGEN CONTENT OF LIQUID METALS 67-07 M19-72703
CHEMISTRY 67-08 M01-75701
A CONTRIBUTION TO THE STUDY OF CASE-HARDENING 67-08 M10-74744
THE CHEMICAL TECHNOLOGY OF PROCESSING BAUXITES. PT.

CHEMICAL EQUILIBRIUM

1. THE SYSTEM NA2O-AL2O3-H2O 67-08 M14-75322
PHASE EXCHANGE BETWEEN COPPER MATTE AND SLAG 67-08 M14-75692
METALLURGICAL STUDIES ON OXYGEN STEEL MELTS TOP-BLOWN FROM HIGH-PHOSPHORUS PIG IRON 67-09 M04-76503
STUDIES ON THE EQUILIBRIUM TEMPERATURE FOR THE ALPHA TO BETA TRANSFORMATION 67-09 M14-76304
THERMODYNAMIC AND PHASE STUDIES FOR PLUTONIUM AND URANIUM-PLUTONIUM OXIDES WITH APPLICATION TO COMPATIBILITY CALCULATIONS 67-09 M14-76349
DETERMINATION OF THE ACTIVITY COEFFICIENT AT 1600 C. OF URANIUM IN AN INFINITELY DILUTE SOLUTION IN LIQUID IRON BY STUDYING A HETEROGENEOUS EQUILIBRIUM 67-09 M15-77680
NOTE ON THE ALUMINUM-OXYGEN INTERACTION IN LIQUID IRON 67-09 M15-77736
EQUILIBRIUM OF SULFUR WITH MANGANESE, ALUMINUM AND CHROMIUM IN CAST IRON 67-11 M04-81319
THE NITRIDING OF CHROMIUM IN N2-H2 GAS MIXTURES AT ELEVATED TEMPERATURES 67-12 M14-82764

CHEMICAL EQUILIBRIUM, TEMPERATURE EFFECTS
DEFECT EQUILIBRIA OF PUO2-X, 1045 TO 1505 C 67-09 M14-76348

CHEMICAL ETCHING
ETCHING OF COPPER AND ITS ALLOYS 67-03 M13-65041
THE ETCHING OF BI--2-Y--SBYTEXSE--3-X-- 67-03 M13-65905
AN ETCHING TECHNIQUE TO REVEAL STRAIN IN HIGH-STRENGTH STEEL 67-04 M13-66943
CHEMICAL THINNING TECHNIQUE FOR THE PREPARATION OF THIN FOILS FROM BULK SAMPLES OF FERROUS MATERIALS 67-04 M13-67026
HOW TO PREPARE THE SURFACE OF METALS AND NONMETALS FOR ADHESIVE BONDING 67-06 M12-70030
AN ETCHANT TO REVEAL DISLOCATIONS IN BI2TE3 67-06 M13-70248
CHEMICAL ETCHING OF GERMANIUM IN THE SYSTEM HF-H2O2-H2O 67-06 M14-70666
STUDY OF IMPURITY HETEROGENEITIES IN INSB BY MEANS OF A PERMANGANATE ETCHANT 67-06 M16-70669
OBSERVATION OF ETCHING OF N-TYPE SILICON IN AQUEOUS HF SOLUTIONS 67-06 M16-72182
NEW METHOD FOR THE DETECTION OF PORES ON IRON AND STEEL SURFACES 67-08 M19-75504
ESSENTIALS OF CHEMICAL ETCHING 67-09 M13-76495
A CHEMICAL POLISH THAT REVEALS COMPOSITIONAL VARIATIONS IN PBSE--1-X--TEX 67-09 M13-76630
TOPOGRAPHIC X-RAY INVESTIGATION OF THE SUBSTRUCTURE OF NONDEFORMED SUPERRAFFINAL IN COMBINATION WITH CHEMICAL AND THERMAL ETCHING 67-09 M13-78175
JOINT USE OF CONTROLLED-POTENTIAL METALLOGRAPHIC ETCHING AND THE ELECTRON PROBE MICROANALYZER FOR THE STUDY OF COMPLEX STRUCTURES IN STAINLESS STEELS 67-10 M13-79984
ACTIVATION ENERGIES IN THE CHEMICAL ETCHING OF SEMICONDUCTORS IN HNO3-HF-CH3COOH 67-12 M12-82460
NEW TECHNIQUE FOR PREPARING UO2 THIN FOILS FOR ELECTRON MICROSCOPY 67-12 M13-82804
CHEMICAL ETCHANTS FOR DISLOCATIONS IN ALPHA BRASS 67-12 M13-82983

CHEMICAL FINISHING
SEE ALSO CHEMICAL ETCHING
CHEMICAL POLISHING
ELECTROLYTIC ETCHING
ELECTROPOLISHING
PROBLEMS IN FINISHING ALUMINUM CASTINGS 67-02 M12-60681
CHEMICAL PRETREATING AND FINISHING 67-08 M12-74854

CHEMICAL FINISHING, AUTOMATION
FULLY AUTOMATIC INSTALLATIONS FOR THE ELECTROLYTIC AND CHEMICAL SURFACE TREATMENT OF PRINTED CIRCUITS 67-10 M12-79887

CHEMICAL KINETICS
SEE REACTION KINETICS

CHEMICAL MACHINING
SEE ALSO CHEMICAL MILLING
ELECTROCHEMICAL MACHINING
ELECTROLYTIC GRINDING
CHEMICAL MACHINING. PT. 21. MACHINING OF STAINLESS STEEL. PT. 1. WORKING SOLUTION AND MACHINING SPEED 67-02 M08-60160
CHEMICAL MACHINING 67-08 M08-75838

CHEMICAL MILLING
NINE METHODS FOR DIFFICULT-TO-IMPOSSIBLE JOBS 67-03 M08-65399
CHEMICAL MILLING 67-04 M08-66381
PRECISION CHEMICAL MILLING OF AEROSPACE COMPONENTS 67-06 M08-71480
CHEMICAL MACHINING METHODS IN METAL WORKING PRODUCTION 67-07 M08-72429
CHEMICAL MILLING OF SPACE, FLIGHT HARDWARE 67-10 M08-78338
WHAT HAS CHEM-MILL DONE FOR YOU LATELY 67-12 M08-82912

CHEMICAL POLISHING
SEE ALSO ELECTROPOLISHING
THE EFFECT OF CHEMICAL POLISHING ON THE STRENGTH AND FRACTURE CHARACTERISTICS OF AMORPHOUS BORON FILAMENTS 67-01 M17-58423
CHEMICAL POLISHING OF COPPER 67-02 M12-61130
A NEW CHEMICAL POLISHANT FOR ZINC 67-02 M13-61297
CHEMICAL PREPARATION OF ALUMINUM FOR CHEMICAL, ELECTROCHEMICAL BRIGHTENING AND ANODIC COATING 67-04 M12-67787
CHEMICAL AND ELECTROLYTIC BRIGHTENING OF ALUMINUM 67-05 M12-69894
THINNING OF POLYCRYSTALLINE MGO FOR TRANSMISSION ELECTRON MICROSCOPY 67-05 M13-68659
CHEMICAL POLISHING OF CADMIUM SULFIDE 67-06 M12-70668
CHEMICAL BRIGHTENING AND ELECTROBRIGHTENING 67-08 M12-74855
A CHEMICAL POLISH THAT REVEALS COMPOSITIONAL VARIATIONS IN PBSE--1-X--TEX 67-09 M13-76630
A PHOSPHORIC-SULPHURIC-NITRIC ACID BATH FOR CHEMICAL POLISHING OF COMMERCIAL PURITY ALUMINIUM 67-10 M12-78754
CHEMICAL POLISHING METHODS FOR ZNTE 67-10 M12-79972
CHEMICAL POLISHING OF FE-SI ALLOYS 67-11 M12-80321
A PHOSPHORIC-SULPHURIC-NITRIC ACID BATH FOR CHEMICAL POLISHING OF COMMERCIAL PURITY ALUMINIUM 67-12 M12-83123
ELECTROCHEMICAL BEHAVIOR OF NIOBIUM IN ACID SOLUTIONS 67-12 M13-82605
A METALLOGRAPHIC TECHNIQUE FOR LANTHANUM AND CERIUM 67-12 M13-82981

CHEMICAL POLISHING /METALLURGY/
SEE CHEMICAL POLISHING
METALLOGRAPHY

CHEMICAL PROCESSES
SEE REACTIONS /CHEMICAL/

CHEMICAL PROPERTIES
SEE ALSO COVALENCE
HEAT OF FORMATION
HEAT OF REACTION
VALENCE
CHEMISTRY OF METALS OF TUNGSTEN 67-06 M15-70163

CHEMICAL REACTIONS
SEE REACTIONS /CHEMICAL/

CHEMICAL REACTORS
METALLURGICAL PROBLEMS IN STEAM REFORMING PLANT 67-07 M01-74266
MEEHANITE CAST IRON AS A MATERIAL FOR THE CHEMICAL INDUSTRY 67-11 M20-81185

CHEMICAL REACTORS, MATERIALS
USE OF THE REFRACTORY METALS IN CORROSIVE ENVIRONMENT SERVICE 67-05 M01-69103
PHOSPHORIC ACID PROCESSING--ALLOY SELECTED FOR USE IN WET PROCESS 67-05 M18-68798
STAINLESS AND SPECIAL ALLOY STEELS 67-05 M20-69547

CHEMICAL REDUCTION
SEE REDUCTION /CHEMICAL/

CHEMICAL TESTS
SEE CHEMICAL ANALYSIS
FIELD CORROSION TESTS

CHEMISORBING
SEE CHEMISORPTION

CHEMISORPTION
ON THE FORMATION KINETICS OF CONTINUAL LAYERS OF FERROUS OXIDE AT HIGH TEMPERATURES AND UNDER LOW-OXYGEN PRESSURE 67-02 M14-60824
CHEMISORBED OXYGEN STRUCTURES ON THE RHODIUM --110-- SURFACE 67-02 M14-61075
SORPTION PROPERTIES OF METAL POWDERS 67-02 M18-62101
WORK FUNCTION CHANGES DUE TO THE CHEMISORPTION OF WATER AND OXYGEN ON ALUMINUM 67-03 M16-65807
CHEMISORBED BETA PHASE OF NITROGEN ON TUNGSTEN 67-04 M14-67433

MASS SPECTROMETRIC INVESTIGATION OF THE INTERACTION OF OXYGEN WITH A TUNGSTEN SURFACE 67-05 M16-69036
CHEMISORPTION AND OXIDATION--OXYGEN ON TUNGSTEN 67-05 M18-68746
KINETICS OF THE ATTACK OF HIGH-TEMPERATURE MOLYBDENUM AND TUNGSTEN BY ATOMIC OXYGEN 67-06 M14-72165
ADSORPTION OF NITROGEN AND CARBON MONOXIDE ON MOLYBDENUM 67-06 M15-71043
THE CHEMISORPTION OF CO ON POLYCRYSTALLINE NI 67-08 M14-75044
SORPTION OF INERT GAS IONS BY TITANIUM 67-08 M14-75045
THE CHEMISORPTION OF CARBON MONOXIDE ON POLYCRYSTALLINE MOLYBDENUM 67-08 M14-75920
EFFECT OF SOME ORGANIC PHOSPHORUS COMPOUNDS ON THE CORROSION OF LOW CARBON STEEL IN HYDROCHLORIC ACID SOLUTIONS 67-08 M18-75774
STRUCTURE AND GROWTH OF THIN FILMS ON METALS EXPOSED TO OXYGEN 67-09 M14-76645
EXOELECTRON EMISSION DURING OXYGEN CHEMISORPTION AT CLEAN NICKEL SURFACES 67-09 M16-77462
LOW-ENERGY ELECTRON DIFFRACTION STUDY OF SURFACES OF ANTIMONY AND BISMUTH 67-10 M13-79547
CHARACTERIZATION OF CHEMISORPTION BY LEED 67-10 M14-79549
LEED AND HEED STUDIES OF THE INTERACTION OF OXYGEN WITH SINGLE CRYSTAL SURFACES OF COPPER 67-10 M14-79551
CHEMISORPTION OF OXYGEN AND HYDROGEN ON NICKEL FILMS--RECONSTITUTION OF THE ADSORBATE-ADSORBENT INTERFACE 67-10 M14-79552
ADSORPTION STUDIES ON METALS AND ELEMENTAL SEMICONDUCTORS. PT. 12. WATER ON P-TYPE GERMANIUM POWDERS 67-10 M15-79571
OXIDATION BEHAVIOR OF MIXED FE AND MN PROTOXIDES AND THEIR LACUNAR STRUCTURE 67-11 M14-80357

CHEMISORPTION, TEMPERATURE EFFECTS
CHEMISORPTION OF CARBON MONOXIDE ON MOLYBDENUM 67-08 M14-75370
THE INTERACTION OF NITROGEN WITH RHENIUM 67-08 M14-75603

CHEMISTRY
SEE ELECTROCHEMISTRY
MAGNETOCHEMISTRY
MICROCHEMISTRY
PHOTOCHEMISTRY
RADIOCHEMISTRY
SURFACE CHEMISTRY
THERMOCHEMISTRY
WATER CHEMISTRY

CHERT
SEE TACONITE

CHI PHASE
A NEW EXCESS PHASE IN CR-MN-NI-TI STEEL 67-04 M14-67977
STRUCTURE OF ACID-RESISTING AUSTENITIC CHROMIUM-NICKEL-MOLYBDENUM STEEL X 5 CRNIMO 17 13 AND STRUCTURAL CHANGES 67-07 M14-73025

CHILL CASTING
CHANGES IN THE MECHANICAL PROPERTIES OF BRONZE DEPENDING ON THE CASTING METHOD 67-04 M06-67507
EFFECT OF MOLD GROOVING ON THE RATE OF COOLING OF CHILLED MILL ROLLS 67-04 M06-67619
ALUMINUM FOIL 67-04 M20-66146
THERMAL EFFICIENCY OF RISERS AND THE CASTING YIELD 67-05 M06-68726
FORMATION OF CRYSTAL STRUCTURES IN PURE AL 67-05 M06-68887
FORMATION OF THE CHILL ZONE IN INGOT SOLIDIFICATION 67-06 M06-69936
CALCULATION OF THE EFFECT OF INDIRECT CHILL ON THE SOLIDIFICATION RATE OF CAST STEEL 67-06 M06-70850
PRACTICAL ASPECTS OF THE PRODUCTION OF LARGE IRON GRAVITY DIECASTINGS 67-08 M06-74555
EFFECT OF CERIUM AND LANTHANUM ON THE CHILL OF CAST IRON 67-08 M06-75190
NONMETALLIC INCLUSIONS IN CHILL MOLD CASTINGS OF MAGNESIUM IRON 67-08 M06-75195
A GATING SYSTEM FOR CHILL CASTING A TRACTOR PISTON IN A110V ALLOY 67-08 M06-75198
CERIUM-SILICON ALLOY REDUCES CHILL IN GRAY IRON 67-08 M06-75541
TECHNOLOGICAL ADVANCES IN THE FIELD OF BRASS CASTING PRODUCTION 67-12 M06-81956
ANNEALING MALLEABLE IRON CHILL CASTINGS 67-12 M10-81985

CHILL CASTING, AUTOMATION
MECHANIZATION AND AUTOMATION OF CASTING INTO ALUMINUM ANODIZED CHILL MOLDS 67-12 M06-82614

CHILL CASTING, TEMPERATURE EFFECTS
CASTING OF CAST IRON IN METAL MOLD 67-08 M06-74620

CHILL CASTINGS
SEE PERMANENT MOLD CASTINGS

CHILL MOLDS
SEE PERMANENT MOLDS

CHILL ROLLS, SURFACE PROPERTIES
SURFACE FRACTURES ON COLD-WORKING ROLLS, THEIR FORMATION AND AN INTERPRETATION OF THEIR CAUSES 67-04 M17-67411

CHILL STRENGTHENING
EFFECT OF NITROGEN ON CHILLED GREY CAST IRON 67-09 M13-78139

CHILLING
SEE COOLING

CHIMNEYS, CORROSION
NONUNIFORM CORROSION FAILURE AND CORROSION PROTECTION OF STEEL SMOKESTACKS 67-10 M18-78544

CHIPLESS MACHINING
SEE ALSO CHEMICAL MILLING
ELECTRIC DISCHARGE GRINDING
ELECTROCHEMICAL MACHINING
ELECTRON BEAM MACHINING
SPARK MACHINING
CHEMICAL MACHINING. PT. 21. MACHINING OF STAINLESS STEEL. PT. 1. WORKING SOLUTION AND MACHINING SPEED 67-02 M08-60160

CHIPPING
A SLIP-LINE FIELD SOLUTION FOR MACHINING WITH DISCONTINUOUS CHIPS 67-07 M08-74249

CHIPS
ANALYSIS OF CHIP FORMATION CHARACTERISTICS OF 18 PER CENT NICKEL MARAGING STEEL 67-12 M08-P 775
A TECHNIQUE TO OPTIMIZE CONTROL OF PROCESS VARIABLES IN RELATED STUDIES OF CAUSES AND EFFECTS OF METAL CUTTING BEHAVIOUR 67-12 M08-82779
THE RELATIONSHIP BETWEEN CUTTING FORCE, CHIP FORMATION AND TEMPERATURE IN TURNING WITH HIGH-SPEED TOOL STEELS 67-12 M08-82933

CHIPS, BRIQUETTING
THERMAL CONDUCTIVITY OF BRIQUETTED STEEL CHIPS 67-01 M04-57330
USE OF CAST IRON SWARF IN CUPOLA MELTING 67-02 M06-61198
OXIDATION REDUCTION PROCESSES IN GRAY IRON CHIPS AT ELEVATED TEMPERATURES 67-04 M06-67940
BRIQUETTING SWARF 67-09 M02-76855

CHIPS, COMPACTING
COMPACTION OF POROUS MATERIALS DURING PRESSING 67-06 M09-72319

CHIPS, FORMING
HOT DYNAMIC PRESSING OF METAL POWDERS AND CHIPS 67-04 M09-66957

CHIPS, HEATING
INVESTIGATION OF PROCESSES OCCURRING IN HEATING OF IRON SHAVINGS 67-02 M02-59178
INVESTIGATION INTO THE PROCESSES TAKING PLACE DURING THE HEATING OF CAST IRON SWARF 67-10 M02-78887

CHIPS, MELTING
PRODUCING SYNTHETIC CAST IRONS FROM SHAVINGS 67-02 M06-61801
USING CAST IRON SHAVINGS IN PRODUCING CAST IRON IN INDUCTION FURNACES 67-02 M06-61802
USE OF STEEL CHIPS DURING STEEL MELTING 67-04 M04-67501
USING HOT BRIQUETTED IRON CHIPS IN CUPOLA MELTING 67-07 M06-74049
PRODUCING STEEL IN ELECTRIC FURNACES USING STEEL CHIP BRIQUETS 67-08 M04-75187
PRODUCTION OF SYNTHETIC CAST IRONS FROM SWARF 67-09 M06-78073
USING CAST IRON SWARF FOR MELTING IRON IN INDUCTION FURNACES 67-09 M06-78074

CHIPS, PRESSING
CORROSION RESISTANCE OF POROUS MATERIALS PRODUCED BY HOT COMPACTION OF STEEL SHIPS 67-06 M18-72333
X-RAY ANALYSIS OF RESIDUAL STRESSES IN MOLDS 67-07 M17-74047

CHIPS
COMPACTING SHKH15 SWARF BY DYNAMIC HOT PRESSING 67-12 M09-82478
CHIPS, RECOVERING
ELECTROLYTIC REFINING OF INDUSTRIAL WASTES OF TITANIUM ALLOYS 67-02 M03-61614
CHIPS, SALVAGE
PURIFYING TITANIUM SHAVINGS OF SOLID ALLOY IMPURITIES 67-12 M02-83096
CHISELS
SEE HAND TOOLS
CHLORIDES
SEE ALSO HYDROCHLORIC ACID
SODIUM CHLORIDE
CHLORIDES, BINARY SYSTEMS
VAPOR PRESSURE OF METAL HALIDES. THE SNCL2-ZNCL2 BINARY SYSTEM 67-11 M15-80761
CHLORIDES, COATING
BORON FILAMENT GRADUATES TO PRODUCTION 67-01 M14-57224
CHLORIDES, CORROSION ENVIRONMENTS
INVESTIGATION OF THE STRESS CORROSION OF AUSTENITIC STEELS IN MGCL3 SOLUTIONS 67-04 M18-67206
CHLORIDES, REACTIONS /CHEMICAL/
INFLUENCE OF CHLORIDE IONS ON THE RATE OF THE ELECTRODE PROCESSES UNDER CONDITIONS OF ADSORPTION OF ADDITIVES ON THE ELECTRODES 67-08 M03-74477
ACTIVITY OF MAGNESIUM CHLORIDE AND HYDROXYCHLORIDE IN MAGNESIUM BATH MELTS 67-09 M03-77117
REACTIONS OF METAL CHLORIDES AND CHLOROMETALLATE SLATS WITH RED PHOSPHORUS 67-11 M14-80313
POSSIBILITIES OF THE PRODUCTION OF OXYGEN-POOR, FOREIGN METAL-POOR VANADIUM CHLORIDE 67-12 M03-82141
CHLORIDES, REDUCTION /CHEMICAL/
REDUCING CESIUM CHLORIDE BY SILICOCALCIUM 67-06 M03-69999
REDUCING NIOBIUM PENTACHLORIDE BY HYDROGEN 67-06 M03-70000
CHLORIDES, REFINING
DECOPPERING CHLORIDE NICKEL AND COBALT ELECTROLYTES BY MEANS OF ION EXCHANGE 67-04 M03-67524
CHLORIDES, X RAY ANALYSIS
AN X-RAY DIFFRACTION STUDY OF RUBIDIUM CHLORIDE 67-11 M13-80605
CHLORIDIZING
WORKING OF NONFERROUS METALLIFEROUS CINDERS INTO IRON ORE PELLETS BY LDK PLANT 67-06 M02-70852
MANGANESE RECOVERY AS CHLORIDE FROM ORES AND SLAGS 67-06 M03-70859
THE INFLUENCE OF H4SIO4 AND OTHER ADMIXTURES UPON THE CHLORIDIZING VOLATILIZATION OF ZN FROM ZNO WITH CACL2 67-08 M03-74654
CHLORINATING
SEE CHLORINATION
CHLORINATION
KINETICS OF THE CHLORINATION OF NIOBIUM PENTOXIDE WITH CHLORINE IN PRESENCE OF EXCESS OF GRAPHITE POWDER 67-01 M14-57497
SEMI-INDUSTRIAL TESTS OF TECHNIQUES FOR THE SELECTIVE CHLORINATION OF CHROMIUM ORES 67-02 M02-59565
THE SMELTING OF EGYTIAN ILMENITE ORES BY A COMBINATION MELTING AND CHLORINATING PROCESS 67-02 M02-60204
CHLORINATING ZINC AND COPPER SILICATES AND FERRITES 67-02 M02-60536
ON THE RATE OF CHLORINATING TITANIUM-BEARING BRIQUETTES 67-02 M02-61615
USE OF CARNALLITE IN CHLORINATION ROASTING 67-02 M03-59595
CHLORINATING PRODUCTS OF THE HYDROLYSIS OF MOLTEN CARNALLITE 67-02 M03-60540
PRODUCING VANADIUM TETRACHLORIDE FROM VANADIUM OXYTRICHLORIDE 67-02 M03-60544
CHLORINATING NBOCL3 AND TIO2 ON A CARBON SETTING 67-02 M03-61722
CONSTRUCTING A MATHEMATICAL MODEL OF THE PROCESS OF CHLORINATING TITANIUM SLAGS IN A MELT 67-03 M02-65594
ON THE KINETICS OF CHLORINATING CO3O4, FE2O3 AND COFE2O4 WITH GASEOUS CHLORINE 67-03 M03-65577
CHLORINATING TIO2 IN THE PRESENCE OF CO IN A NACL MELT 67-03 M03-65581
ON THE KINETICS OF CHLORINATING NIOBIUM PENTOXIDE 67-03 M03-65582
GRANULATION OF YAGERSK TITANIUM CONCENTRATES 67-04 M02-66822
CHLORINATION OF GRANULATED HIGH TI SLAGS IN A FLUID BED. PT. 2 67-04 M02-66866
SELECTIVE CHLORINATION OF IRON ORES CONTAINING CHROMIUM AND NICKEL BY FLUIDIZED ROASTER 67-04 M02-67553
CHLORINATING IRON-VANADIUM SPINEL IN SOLID PHASE 67-05 M02-68965
A NEW TECHNOLOGICAL PROCESS FOR OBTAINING HIGH-QUALITY TIO2 67-05 M03-68927
USE OF AN ANALOG COMPUTER TO DEVELOP A SYSTEM FOR CONTROLLING THE CHLORINATION OF TI SLAGS IN MELT 67-05 M03-68980
A KINETIC STUDY OF THE HETEROGENEOUS REACTIONS OF METALLIC SODIUM WITH CHLORINE AND BROMINE 67-05 M14-68616
THE CHEMICAL EXPLOITATION OF FE CARRIERS 67-06 M02-70079
THEORETICAL BASIS FOR HIGH TEMPERATURE CHLORINATION-ROASTING OF PYRITE CAKES 67-06 M02-71305
REACTION KINETICS OF TITANIUM AND NIOBIUM OXIDES IN A FUSED SYSTEM WITH SODIUM CHLOROALUMINATE 67-06 M02-71880
AMINE EXTRACTION OF NOBLE METALS FROM SLURRIES OF NICKEL AND COPPER ELECTROLYSIS 67-06 M03-71304
STUDY OF CONDITIONS FOR CHLORINATING TUNGSTEN OXIDES AND THE FEASIBILITY OF DEEP REFINING THEM BY OXYCHLORIDE 67-06 M03-72111
EFFECT OF PETROLEUM COKE AND WATER VAPOR IN CHLORINATION OF HYDROLYSIS PRODUCTS OF MELTED CARNALLITE 67-06 M03-72117
MANGANESE RECOVERY AS CHLORIDE FROM ORES AND SLAGS 67-07 M03-73094
EFFECT OF THE COMPOSITION OF MCl MELTS ON THE CHLORINATION OF TIO2 IN THE PRESENCE OF CO 67-08 M02-75149
SEMI-INDUSTRIAL APPARATUS FOR OBTAINING ELECTROLYTIC CHROMIUM FROM AQUEOUS SOLUTIONS OF CHROMIC CHLORIDE OBATINED BY CHLORINATION OF CHROMIUM ORES 67-08 M03-74484
A ONE-STEP OPERATION FOR RECOVERY OF MANGANESE AS CHLORIDE FROM ORES AND SLAGS 67-08 M03-74673
INVESTIGATION OF THE DETINNING OF RAW LEAD 67-08 M03-75691
EXAMINATION OF THE REACTION BETWEEN MANGANESE CARBONATE AND AMMONIUM CHLORIDE WITH THE OBJECT OF RECOVERING MANGANESE FROM CARBONATE MANGANESE ORES. PT. 1 67-09 M02-76878
KINETICS OF THE CHLORINATION OF NIOBIUM PENTOXIDE WITH CHLORINE IN PRESENCE OF EXCESS OF GRAPHITE POWDER 67-09 M02-78138
TITANIUM MADE FROM POWER STATION ASH 67-09 M03-76811
ON THE ADVISABILITY OF CHLORINATING ALUMINUM IN ALUMINUM PLANTS 67-09 M03-77115
USE OF NATURAL GAS FOR PREPARATION OF CARNALLITE FOR ELECTROLYSIS 67-10 M02-79041
ROASTING IN EXTRACTIVE METALLURGY--A THERMODYNAMIC AND KINETIC REVIEW 67-10 M02-79946
DETERMINATION OF OXYGEN IN CHROMIUM STEELS BY CHLORINATION AND VACUUM SUBLIMATION 67-10 M19-79774
CHLORINATION OF TANTALUM-NIOBIUM CONCENTRATES UNDER LABORATORY CONDITIONS 67-11 M02-81230
THE FUNCTION OF SOLID CARBON IN THE CHLORINATION PROCESS OF OXIDES 67-11 M14-81228
CHOPPING
SEE CUTTING
CHROMATE COATING
SEE CHROMATING
CHROMATES, CORROSION ENVIRONMENTS
A RADIOTRACER STUDY ON THE REACTION BETWEEN ZINC AND CHROMATE. PT. 2. THE CORROSION OF ZINC IN DILUTE CHROMATE SOLUTIONS 67-04 M18-66691
CHROMATING
REDUCTION OF TARNISHING OF ELECTROPLATED SILVER 67-02 M12-59046
CHROMATE COATINGS 67-04 M12-67395
CHROMATE CONVERSION COATINGS FOR ZINC AND CADMIUM 67-07 M12-73644
SOME PRODUCTION PLATING PROBLEMS AND HOW THEY WERE SOLVED. PT. 11 67-07 M12-74127
THE CHEMICAL SURFACE TREATMENT OF AL SURFACES 67-09 M12-77206
CONVERSION COATINGS PREPARE GALVANIZED STEEL FOR PAINTING 67-09 M12-77390

THERMAL DIFFUSIONAL SILICONIZING AND CHROMIUM-SILICONIZING OF ZHS6-K ALLOY 67-11 M12-81665

CHROMATOGRAPHIC ANALYSIS
AUTOMATED CONTINUOUS ANALYSIS OF BLAST FURNACE GAS BY MEANS OF PROCESS GAS CHROMATOGRAPHY 67-05 M02-69361

CHROMATOGRAPHY
SEE ALSO CHROMATOGRAPHIC ANALYSIS
GAS CHROMATOGRAPHY
THE CHEMISTRY OF THE MOLECULAR PLATING PROCESS 67-01 M12-58383

CHROME MAGNESITE REFRACTORIES
SEE CHROMITE REFRACTORIES
MAGNESITE REFRACTORIES

CHROME PLATING
SEE CHROMIUM PLATING

CHROMIC ACID ANODIZING
SURFACE PROPERTIES OF VARIOUS ELECTROLYTIC CHROMIC ACID TREATED STEEL SHEETS 67-09 M12-77334

CHROMITE REFRACTORIES
CHANGES DURING SERVICE IN BASIC REFRACTORIES IN CHANNEL INDUCTION FURNACES MELTING NICKEL 67-04 M05-67845

CHROMITE REFRACTORIES, FURNACE LINERS
LINING LIFE FOR CONVERTERS TREATING HIGH-METALLIZED COPPER-NICKEL MATTES 67-07 M03-72781

CHROMITE REFRACTORIES, LINERS
FAILURE MECHANISM OF PERICLASESPINEL AND CHROMITE-MAGNESITE LININGS IN OXYGEN CONVERTERS 67-06 M05-70564

CHROMITE REFRACTORIES, MECHANICAL PROPERTIES
TECHNIQUE FOR MICROSCOPIC OBSERVATION OF CRACK PROPAGATION 67-04 M17-67735
WEAR IN MAGNESITE-CHROMITE STOPPER TUBES IN VACUUM DEGASSING OF TRANSFORMER STEEL 67-05 M04-69308
EFFECT OF THE SILICATE CONSTITUTION OF MAGNESITE BRICKS ON THE HIGH-TEMPERATURE STRENGTH 67-06 M17-70604

CHROMITE REFRACTORIES, SEALING
ELECTROLYTIC SEALING OF INDUSTRIAL REFRACTORIES 67-05 M05-69512

CHROMITE REFRACTORIES, SWELLING
SWELLING OF CHROMITE-CONTAINING REFRACTORIES 67-07 M05-72618

CHROMITE REFRACTORIES, THERMAL PROPERTIES
RESISTANCE OF REFRACTORIES IN HEAVY-AND MEDIUM-DUTY FURNACES WITH COMBINED USE OF OXYGEN 67-08 M05-74888

CHROMIUM, ALLOYING ADDITIVE
ESTABLISHMENT OF DIAGRAMS OF STRUCTURES OF CHROMIUM AND TUNGSTEN STEELS ON THE BASIS OF THE EXTENT IN SPACE OF THE AUSTENITE DOMAIN IN THE TERNARY ALLOYS IRON---CHROMIUM OR TUNGSTEN---CARBON 67-02 M13-58928
INFLUENCE OF CERTAIN ALLOYING ELEMENTS ON THE KINETICS OF FORMATION OF PEARLITE 67-02 M14-62064
THE EFFECT OF THE ADDITION OF CHROMIUM ON THE PROPERTIES OF A NEW MAGNET ALLOY MALCOLLOY IN THE SYSTEM OF COBALT AND ALUMINUM 67-02 M15-60266
THE EFFECT OF CALCIUM, SILICON, MANGANESE AND CHROMIUM ON THE MECHANICAL PROPERTIES OF FLASH BUTT WELDS 67-02 M17-59110
INFLUENCE OF CHEMICAL COMPOSITION ON THE ANISOTROPY OF THE IMPACT STRENGTH OF SOME CASE-HARDENING STEELS 67-02 M17-62065
MECHANISM OF OXIDATION OF DILUTE NICKEL-CHROMIUM ALLOYS 67-02 M18-61137
THE SOLUBILITY OF NITROGEN IN MULTICOMPONENT LIQUID IRON ALLOYS 67-03 M14-65081
HALL EFFECT AND TRANSVERSE MAGNETORESISTANCE IN SOME FERROMAGNETIC IRON-CHROMIUM ALLOYS 67-03 M16-65026
STUDY OF THE VANADIUM-CARBON AND VANADIUM-CHROMIUM-CARBON SYSTEMS 67-04 M14-67199
SOME CHARACTERISTICS OF THE ELECTRICAL RESISTIVITY OF NICKEL-CHROMIUM ALLOYS WITH A LOW CONTENT OF CHROMIUM 67-04 M15-67157
PIG IRON WITH A HIGH CONTENT OF MANGANESE FOR CASTING WEAR-RESISTANT PARTS 67-04 M17-67440
A KINETIC AND MORPHOLOGICAL STUDY OF THE OXIDATION OF TI-CR ALLOYS IN CO2 AT 1000 C 67-05 M18-69704
PITTING CORROSION OF 13CR-FE ALLOY IN NA2SO4 SOLUTIONS CONTAINING CHLORIDE IONS 67-05 M18-69837
EFFECT OF SMALL ADDITIONS OF CHROMIUM AND MOLYBDENUM ON THE BEHAVIOR OF CARBON AND NITROGEN IN CARBONITRIDED CASES ON STEEL 67-06 M11-72299
DISTRIBUTION OF SILICON AND CHROMIUM BETWEEN THE PHASES OF CAST IRON OF LOW CHROMIUM CONTENT 67-06 M13-71113
SIGMA FORMATION IN NICKEL-RICH NICKEL-COBALT-CHROMIUM-ALUMINUM-TITANIUM-CARBON ALLOYS AT 1650 F 67-06 M14-69932
PROPERTIES OF VANADIUM-BASE TUNGSTEN AND CHROMIUM ALLOYS 67-06 M17-71406
THE EFFECT OF AL-CR AND AG-ZR ADDITIONS ON THE MECHANICAL PROPERTIES AND STRESS CORROSION BEHAVIOR OF HIGH-STRENGTH ALZNMGCU ALLOYS 67-06 M18-71984
ROLLING MILL ROLLS OF CHROMIUM IRON 67-07 M07-74077
EFFECT OF DIFFERENT CHROMIUM CONTENTS ON THE PROPERTIES OF THE NONMAGNETIZABLE PRECIPITATION-HARDENING STEEL X 45 MNNICRV 13 7 6 67-07 M17-72482
THE CREEP AND FRACTURE PROPERTIES OF SOME NICKEL-CHROMIUM ALLOYS AT 600 C 67-07 M17-72816
MECHANISM OF THE INFLUENCE OF DIFFERENT ELEMENTS ON THE GRAPHITIZATION OF CAST IRON 67-08 M14-74545
STRAIN GAGE FACTOR AND ELECTRICAL AND MAGNETIC PROPERTIES IN AS-COLDWORKED STATE OF IRON-NICKEL-CHROMIUM ALLOYS CONTAINING 35 WT PER CENT NICKEL AND 0-20 WT PER CENT CHROMIUM 67-08 M15-74433
THE EFFECT OF CR AND MN ADDITIONS ON THE LOW-TEMPERATURE NOTCHED IMPACT STRENGTH OF 14NI6 --FRIDUCTILE N2-- STEEL 67-08 M17-75065
HIGH-TEMPERATURE INTERNAL FRICTION IN NI-CR ALLOYS 67-08 M17-75270
THE APPLICATION OF A GLANCING-ANGLE X-RAY DIFFRACTION FILM TECHNIQUE TO THE STUDY OF THE LOW-TEMPERATURE OXIDATION OF FE-CR ALLOYS 67-08 M18-76252
THE EFFECT OF VARIOUS ALLOYING ELEMENTS ON THE EXTENT OF THE GAMMA REGION IN THE FE-CR-C SYSTEM. PT. 1. THE FE-CR-C-MO SYSTEM 67-09 M13-77848
SPONTANEOUS MARTENSITE REACTION IN TI-CR ALLOYS 67-09 M14-77737
AGING BEHAVIOR OF TERNARY IRON-CHROMIUM-VANADIUM ALLOYS AROUND 500 C 67-09 M14-78232
IMPROVEMENT OF LOW-ALLOY HEAT RESISTING STEELS 67-09 M17-77585
INTERNAL OXIDATION OF NICKEL ALLOYS CONTAINING A SMALL AMOUNT OF CHROMIUM 67-09 M18-78255
ALLOYING STEEL WITH CHROMIUM 67-11 M04-81041
PARAMAGNETIC BEHAVIOR OF NICKEL-RICH NICKEL-CHROMIUM ALLOYS 67-11 M15-80125
GRAIN-BOUNDARY DAMPING IN 16 AND 22.5 PER CENT CHROMIUM-IRON ALLOYS 67-11 M17-80108
NOTE ON THE PROLONGED OXIDATION OF AN FE-25 PER CENT CR ALLOY AT 950 C. IN OXYGEN 67-11 M18-80714
STRENGTHENING OF ANNEALED CUPRONICKELS BY CHROMIUM 67-12 M10-83057
INFLUENCE OF THE LIMIT OF SOLUBILITY OF CHROMIUM IN BETA URANIUM ON THE ISOTHERMAL TRANSFORMATIONS OF U-CF ALLOYS QUENCHED FROM 720 C 67-12 M14-83197
PHOTOCONDUCTIVITY OF CHROMIUM-DOPED GALLIUM ARSENIDE 67-12 M15-82363
THERMODYNAMIC ACTIVITY OF CHROMIUM IN FE-CR SOLUTIONS 67-12 M15-82594

CHROMIUM, ALLOYING ELEMENTS
DISTRIBUTION OF NICKEL AND CHROMIUM IN VERY HARD ROLL IRON 67-09 M04-77373

CHROMIUM, BINARY SYSTEMS
METASTABLE DIAGRAM OF PHASE COMPOSITION OF TITANIUM-CHROMIUM ALLOYS 67-01 M13-57312
PROBLEM OF THE STRUCTURE OF ALLOYS IN THE TI-FE AND TI-CR-FE SYSTEMS 67-01 M13-58188
STATE DIAGRAM OF THE CHROMIUM-GERMANIUM SYSTEM 67-02 M13-62182
BERYLLIUM-RICH END OF FIVE BINARY SYSTEMS 67-07 M13-73742
THE DECOMPOSITION OF TUNGSTEN-CHROMIUM SOLID SOLUTION 67-07 M15-73905
PHASE DIAGRAM OF THE SYSTEM CHROMIUM-GERMANIUM 67-08 M13-75958
PHASE TRANSFORMATION OF FE-CR BINARY SYSTEM AT ABOUT 500 C 67-08 M14-74404
INVESTIGATION OF TRANSFORMATIONS IN THE SOLID STATE

CHROMIUM

IN ALLOYS OF THE CHROMIUM-MANGANESE SYSTEM 67-09 M13-76964
ON THE EXISTENCE OF A NEW PHASE IN THE CHROMIUM-SULFUR SYSTEM--CHROMIUM POLYSULFIDE CR2S5 67-09 M13-77681
ACTIVITIES OF CHROMIUM AND TITANIUM IN BINARY CHROMIUM-TITANIUM ALLOYS 67-11 M15-81340
THE PHASE TRANSFORMATIONS OF CHROMIUM-PALLADIUM ALLOYS IN SOLID STATE 67-12 M13-82055
THE NITRIDING OF CHROMIUM IN N2-H2 GAS MIXTURES AT ELEVATED TEMPERATURES 67-12 M14-82764
ITINERANT ANTIFERROMAGNETISM IN CHROMIUM ALLOYS 67-12 M15-82905
INVESTIGATION OF THE CR-SI SYSTEM IN THE DISILICIDE REGION 67-12 M16-82684
HOT HARDNESS BEHAVIOR OF IRON-CHROMIUM ALLOYS 67-12 M17-83061

CHROMIUM, CHEMICAL ANALYSIS
SOME ASPECTS OF THE CHEMICAL DETERMINATION OF NITROGEN IN CHROMIUM AND COMPLEX CHROMIUM ALLOYS 67-02 M19-61567
A GENERALLY APPLICABLE X-RAY FLUORESCENCE ANALYSIS PROCEDURE 67-07 M19-72678

CHROMIUM, COATING
CHROMIZING MOLYBDENUM FOR GLASS SEALING 67-02 M12-60698
INTERACTION BETWEEN CR COATING AND THE SURFACE LAYER OF THE BASE METAL UPON HEATING 67-02 M12-60853
HIGHLIGHT DEVELOPMENTS IN PLATING 67-02 M12-60904
NUCLEATION IN SURFACE CATALYZED CHEMICAL VAPOR DEPOSITION --CVD-- 67-04 M12-67744
SOLUBILITY OF NITROGEN AND NITRIDING KINETICS OF CHROMIUM AND IRON-CHROMIUM ALLOYS CONTAINING UP TO 40 PER CENT FE 67-06 M12-71108

CHROMIUM, COATINGS
NEW METALLIC COATINGS AND TREATMENTS FOR CONTAINER STEEL SURFACES 67-01 M12-57547
HEAVY ELECTRODEPOSITION FOR THE ENGINEER. PT. 4. HARD CHROMIUM PLATING 67-01 M12-57558
PLATED NICKEL SHAPES UP 67-01 M12-58724
THE USE OF THE ELECTRON BEAM THICKNESS GAGE ON MULTI-LAYERED COATINGS 67-01 M19-57541
PRACTICAL PROBLEMS IN BRIGHT AND HARD CHROMIUM PLATING 67-02 M12-59045
PLATING ON ALUMINUM AND ALUMINUM ALLOYS 67-02 M12-60991
DEFINITION OF ELECTROLYTES AND ELECTRODEPOSITS 67-02 M12-62288
IMPROVEMENTS IN THE CORROSION RESISTANCE OF ELECTROPLATED LAYERS OF THE CU-NI-CR SYSTEM FOR USE IN THE AUTOMOTIVE INDUSTRY 67-02 M18-60032
DETERMINATION OF THE SURFACE CHROMIUM CONTENTS IN CHROMIZED STEEL BY X-RAY FLUORESCENCE SPECTROMETRIC ANALYSIS 67-02 M19-59120
EFFECT OF HEAT TREATMENT ON TEXTURE OF TI ALLOYS AND ON THE CR AND NI ELECTRO-DEPOSITED ON THEM 67-03 M14-65591
FILM THICKNESS DETERMINATION BY ELECTRON PROBE MICROANALYSIS 67-04 M19-67430
DETERMINATION OF RESIDUAL STRESSES IN ELECTROLYTIC COATINGS FROM THE DEFLECTION OF A FLAT CATHODE 67-05 M17-69615
DIFFUSION COATING OF METALS INTO IRON DURING SINTERING 67-06 M12-71295
DIFFUSION METHODS FOR THE PROTECTION OF METALLIC SURFACES 67-06 M12-72158
PLATING PLASTICS 67-07 M12-74155
INTERNAL STRESS IN ELECTRODEPOSITS 67-07 M17-73626
THE LARGE-SCALE DEPOSITION OF PROTECTIVE LAYERS ON STEEL STRIP BY VACUUM DEPOSITION 67-08 M12-75671
INTERACTION BETWEEN THE CHROMIUM COATING AND THE SURFACE LAYER OF THE METAL 67-08 M12-76111
BATHING METAL WITH ALLOY COATINGS 67-09 M12-76448
THE EFFECT OF ALUMINUM ADDITIONS TO CR-FE COATINGS ON THE PROPERTIES OF THE DIFFUSION COATINGS 67-12 M12-82854
CORROSION PROPERTIES OF COMBINATION COATINGS 67-12 M18-81721

CHROMIUM, CORROSION
TEMPERATURE DEPENDENCY OF THE DISSOLUTION KINETICS AND PASSIVATION OF METALS AND ALLOYS. PT. 2. TEMPERATURE DEPENDENCY OF THE DISSOLUTION MECHANISM 67-02 M18-60113
NATURE AND MECHANISM OF FORMATION OF OXIDE FILMS IN THE CHROMIUM-IRON-CARBON SYSTEM 67-04 M18-66578
GALVANIC PITTING IN METALLIC COATINGS 67-04 M18-66715
CORROSION OF ELECTRODEPOSITED CHROMIUM 67-04 M18-66716
PASSIVATION OF CHROMIUM IN ALKALI SOLUTIONS 67-04 M18-67277
CORROSION AND ELECTROCHEMICAL BEHAVIOR OF FE-CR ALLOYS IN BOILING CONCENTRATED HNO3 67-04 M18-67279
DEVELOPMENTS IN NICKEL AND CHROMIUM DECORATIVE COATINGS AND IN ELECTROFORMING WITH NICKEL. PT. 1 67-07 M12-73129

CHROMIUM, CRYSTAL GROWTH
EPITAXY OF BODY-CENTERED CUBIC METALS EVAPORATED ONTO CLEAVAGE FACES OF ROCKSALT 67-02 M13-60522

CHROMIUM, CRYSTAL LATTICES
ELECTRON DIFFRACTION AT LOW TEMPERATURE 4. AMORPHOUS FILMS OF IRON AND CHROMIUM PREPARED BY LOW TEMPERATURE CONDENSATION 67-03 M13-65157
DETERMINATION OF THE LATTICE PARAMETERS OF COBALT AND CHROMIUM IN THE TEMPERATURE RANGE FROM 20 TO -180 C 67-07 M13-74024
FIELD EMISSION OF CHROMIUM, COBALT AND HAFNIUM 67-09 M13-76452

CHROMIUM, DIFFUSION
A REVIEW OF DIFFUSION PROCESSES IN ZIRCONIUM AND ITS ALLOYS 67-02 M14-59018
DIFFUSION ON THE SURFACE OF STEEL PARTS 67-03 M12-65452
CARBON DIFFUSION IN CHROMIUM 67-04 M14-67653
DIFFUSION PROCESSES IN CHROMIUM-IRON ALLOYS 67-05 M14-68247
DIFFUSION COEFFICIENT OF NITROGEN IN CHROMIUM 67-05 M14-69213
EFFECT OF HEATING RATE ON THE PROPORTION OF VOLUMETRIC AND BOUNDARY DIFFUSION OF CHROMIUM IN IRON 67-05 M14-69662
STUDY OF THE KINETICS OF DIFFUSION OF SEVERAL ELEMENTS FROM THE SAME SOURCE 67-06 M14-70322
THE ISOTOPE EFFECT FOR DIFFUSION IN THE CR-NI SYSTEM.. CRITICISM OF A PAPER BY HEUMANN AND REERINK 67-06 M14-71973
DIFFUSION MECHANISM IN BODY-CENTERED CUBIC METALS 67-06 M14-72066
EFFECT OF HYDROGEN ON CARBON DIFFUSION IN CHROMIUM 67-09 M14-77776
SPECIAL PROTECTION OF HIGHLY HEAT-RESISTANT MATERIALS 67-10 M14-79683
THE PREPARATION OF MONOCRYSTALS OF FE-CR ALLOYS BY CASE HARDENING FE WITH CR. ORIENTATIONS BEFORE AND AFTER TREATMENT 67-10 M14-79706
SPECIAL PROTECTION OF HIGHLY-HEAT RESISTANT MATERIALS 67-11 M18-80698
GRAIN BOUNDARY OXIDATION AND THE CHROMIUM-DEPLETION THEORY OF INTERCRYSTALLINE CORROSION OF AUSTENITIC STAINLESS STEELS 67-11 M18-80708

CHROMIUM, DISTRIBUTION
EFFECT OF THE HOLDING TIME DURING TEMPERING OF 18-8 STAINLESS STEEL ON THE DEVELOPMENT OF THE CHROMIUM-DEPLETED ZONE 67-02 M10-59577

CHROMIUM, ELECTRICAL PROPERTIES
WORK FUNCTION OF METALS 67-06 M16-70492
ELECTRICAL MAGNETORESISTIVITY OF CHROMIUM-IRON ALLOYS 67-08 M15-75129

CHROMIUM, EXTRACTION
ENRICHMENT AND SPECTROPHOTOMETRIC DETERMINATION OF SMALL AMOUNTS OF CHROMIUM AND THE APPLICATION OF THE METHOD IN THE ALUMINIUM INDUSTRY 67-01 M03-57209
STUDIES OF THE REMOVAL OF CHROMIUM FROM PIG IRON 67-07 M04-72893
PRODUCTION OF CHROMIC CHLORIDE FROM THE ELECTROLYTIC HYDROXIDE, FOLLOWED BY ELECTRODEPOSITION OF METALLIC CHROMIUM 67-08 M03-74483

CHROMIUM, HARDENING
THE FORMATION, STABILITY AND INFLUENCE OF CARBIDE DISPERSIONS IN CHROMIUM 67-04 M14-66158

CHROMIUM, HEAT TREATMENT
SOLUBILITY OF NITROGEN IN CHROMIUM AND IRON-CHROMIUM ALLOYS CONTAINING UP TO 40 PER CENT IRON, AND KINETICS OF THE NITRIDING PROCESS 67-10 M10-79656

CHROMIUM, INTERMETALLICS

ELECTRIC AND MAGNETIC PROPERTIES OF THE SOLID SOLUTION VSI2-CRSI2 AND TISI2-CRSI2 67-02 M15-60183
NEUTRON DIFFRACTION OF CR2NIS4 67-04 M13-67731
CU-NMR IN PARAMAGNETIC AND FERROMAGNETIC CUCR2SE4 67-07 M15-73297
THE CRYSTAL STRUCTURES OF CR11GE19, MO13GE23 AND V17GE31 67-09 M13-76451
EFFECT OF PRESSURE ON THE CURIE TEMPERATURE OF CRTE AND MNSB COMPOUNDS OF NICKEL ARSENIDE TYPE 67-10 M15-78717

CHROMIUM, MAGNETIC PROPERTIES
ANTIFERROMAGNETISM IN CHROMIUM ALLOYS. PT. 1. NEUTRON DIFFRACTION 67-02 M15-60760
MAGNETIC BREAKDOWN IN CHROMIUM 67-03 M15-65143
THE MAGNETIC STRUCTURE OF PLASTICALLY DEFORMED CHROMIUM 67-03 M15-65397
TEMPERATURE AND MAGNETIC-FIELD DEPENDENCE OF THE ANTIFERROMAGNETISM IN PURE CHROMIUM 67-06 M15-71797
NEUTRON-DIFFRACTION STUDY OF CR AND CR ALLOYS 67-07 M15-73542
MAGNETIC BREAKDOWN, FERMI SURFACE, AND GALVANOMAGNETIC PROPERTIES IN ANTIFERROMAGNETIC METALS 67-11 M15-80658

CHROMIUM, MECHANICAL PROPERTIES
SOME CORRELATION PROCEDURES BASED ON THE LARSON-MILLER PARAMETER AND THEIR APPLICATION TO REFRACTORY METAL DATA 67-02 M17-59436
CRACK PROPAGATION IN POLYCRYSTALLINE CHROMIUM DURING THERMAL CYCLING 67-02 M17-62236
STUDY OF DEFORMATION AND CRACKING IN THIN FOILS OF CHROMIUM 67-04 M17-66490
THE EFFECT OF ANNEALING TEMPERATURE ON INTERNAL FRICTION AND SHEAR MODULUS OF PURE CHROMIUM AND ALLOYS OF CHROMIUM WITH YTTRIUM AND GADOLINIUM 67-04 M17-66825
MICROHARDNESS OF CHEMICAL ELEMENTS 67-04 M17-66858
THE EFFECT OF FREE DISLOCATIONS ON YIELDING AND FRACTURE IN BODY-CENTERED CUBIC METALS 67-06 M17-70624
INFLUENCE OF NITROGEN ON MAGNETOMECHANICAL DAMPING IN CHROMIUM 67-07 M17-72654
MICROCRACKED OR MICROPOROUS CHROMIUM PLATING 67-07 M17-73819
STRUCTURAL CHANGES IN CHROMIUM DURING STRAIN 67-08 M14-75881
YIELDING AND FRACTURE IN SOME BODY-CENTERED CUBIC METALS 67-08 M17-74517
EFFECTS OF RARE EARTH METALS ON THE NEEL TEMPERATURE AND DUCTILITY OF RECRYSTALLIZED CHROMIUM 67-12 M17-83463

CHROMIUM, METAL POWDERS
A NEW TECHNIQUE FOR FRACTIONATING POWDERS 67-06 M09-71799

CHROMIUM, NUCLEAR PHYSICS
NUCLEAR ZEEMAN EFFECT OF 119SN DISSOLVED IN CHROMIUM 67-02 M16-60592

CHROMIUM, OPTICAL PROPERTIES
OPTICAL PROPERTIES OF EVAPORATED FILMS OF CHROMIUM AND COPPER 67-02 M15-60688

CHROMIUM, PHASE TRANSFORMATIONS
NUCLEATION SITES OF THE ALPHA PHASE GAS IN THE PHASE DURING CEMENTATION OF IRON BY CHROMIUM 67-02 M14-60554

CHROMIUM, PHYSICAL PROPERTIES
DETERMINATION OF THE VAPOR PRESSURES OF METALS AT HIGH TEMPERATURES 67-11 M15-81212

CHROMIUM, POWDER METALLURGY
AN ANALYSIS OF SHRINKAGE KINETICS DURING SINTERING OF REDUCED CHROMIUM POWDER 67-02 M09-59605
THE SINTERABILITY OF CHROMIUM POWDER 67-02 M09-61784
CONTRIBUTION TO THE STUDY OF GRAIN ORIENTATION IN COLUMNS OF POWDER AND SINTERED PARTS UNDER THE EFFECT OF INTERMEDIATE LAYERS 67-06 M09-71754
HOT-EXTRUDED CHROMIUM COMPOSITE POWDER 67-07 M09-73868
ANALYSIS OF DENSIFICATION KINETICS DURING THE SINTERING OF REDUCED CHROMIUM POWDER 67-09 M09-76923
INVESTIGATION OF SINTERING AND PROPERTIES OF POROUS BRIQUETS MADE OF GRANULATED CHROMIUM AND CHROMIUM-BASE POWDERS 67-12 M09-82208
INVESTIGATION OF SINTERING AND PROPERTIES OF CHROMIUM-BASE COMPACTS 67-12 M09-83554
X-RAY INVESTIGATION OF DIFFUSION DURING SINTERING OF NI-CR AND FE-CR COMPACTS 67-12 M09-83555

CHROMIUM, QUATERNARY SYSTEMS
STRUCTURAL DIAGRAMS OF THE QUATERNARY 18 PER CENT CR-FE-C-N SYSTEM 67-02 M13-59983
THE 1200 C. ISOTHERMAL SECTION OF THE PHASE DIAGRAM OF THE QUASITERNARY SYSTEM TIC-NI-CR 67-02 M13-60578
PHYSICOCHEMICAL STUDY OF ALLOYS OF THE NIOBIUM-TUNGSTEN-MOLYBDENUM CHROMIUM SYSTEM 67-06 M14-70164
STUDY OF PHASE EQUILIBRIUM IN A PORTION OF THE TI-AL-CR-FE-SI-B SYSTEM 67-09 M13-77298

CHROMIUM, RADIATION EFFECTS
CHANGING MICROHARDNESS OF CHROMIUM SUBJECTED TO NEUTRON IRRADIATION DURING ANNEALING AND DEFORMATION 67-06 M16-72350

CHROMIUM, REACTIONS /CHEMICAL/
MEASUREMENT OF NITRIDE KINETICS ON CHROMIUM BY ELLIPSOMETRY 67-06 M14-71622
THE OXIDATION OF VACUUM DEPOSITED THIN FILMS IN A JET STREAM OF O2 67-08 M12-75179
THE PREPARATION OF THE NITRIDES OF CHROMIUM 67-10 M05-78877

CHROMIUM, RECOVERING
METHOD OF PREPARING ALLOYS CONTAINING CHROMIUM FROM SCRAP 67-02 M04-59589

CHROMIUM, REFINING
STUDY OF METHODS OF REDUCING NITROGEN CONTENT IN ALUMINOTHERMAL CHROMIUM 67-02 M03-59540
SEMI-INDUSTRIAL APPARATUS FOR OBTAINING ELECTROLYTIC CHROMIUM FROM AQUEOUS SOLUTIONS OF CHROMIC CHLORIDE OBATINED BY CHLORINATION OF CHROMIUM ORES 67-08 M03-74484
MANUFACTURING OF CHROMIUM COMPACTS BY THE CHLORIDE METHOD AND STUDY OF THEIR PHYSICAL AND MECHANICAL PROPERTIES 67-09 M03-76968
IMPURITIES IN ALUMINOTHERMIC CHROMIUM AND PURIFICATION OF THIS MATERIAL BY FUSED SALT ELECTROLYSIS 67-12 M03-83221

CHROMIUM, ROLLING
SOME SPECIFIC FEATURES OF HOT ROLLING REFRACTORY METALS IN A VACUUM AND IN AN ATMOSPHERE OF INERT GAS 67-02 M07-62220

CHROMIUM, SINGLE CRYSTALS
DISLOCATION AND DEFORMATION MODES IN CHROMIUM SINGLE CRYSTALS 67-12 M13-82564

CHROMIUM, SOLUBILITY
THE SOLUBILITY OF CHROMIUM IN LIQUID SILVER AND MOLYBDENUM AND TUNGSTEN IN LIQUID TIN 67-12 M14-82726

CHROMIUM, TERNARY SYSTEMS
PERMANENT MAGNET CAPABLE OF COLD WORKING 67-01 M20-57518
PHASE EQUILIBRIUM DIAGRAM OF THE SYSTEM OF THE INTERMETALLIC COMPOUNDS NBCR2-ZRCR2 67-02 M13-59594
THE TERNARY CR-CO-SI SYSTEM 67-02 M13-59888
PHASE EQUILIBRIUM DIAGRAM OF THE TI-NB-CR SYSTEM 67-02 M13-60743
PHASE EQUILIBRIA IN THE SYSTEM MOLYBDENUM-CHROMIUM-CARBON 67-02 M13-61790
EFFECT OF VANADIUM AND MOLYBDENUM ON THE PROPERTIES AND PHASE CONVERSIONS OF THE METALLIDE TICR2 67-02 M13-62181
THE NATURE OF INTERACTION BETWEEN COMPONENTS IN THE GAMMA AND GAMMA PRIME PHASE OF THE NI-AL, NI-AL-CR, NI-AL-CO AND NI-AL-FE SYSTEMS 67-02 M14-58983
THE RHENIUM-CHROMIUM-CARBON SYSTEM 67-04 M13-67341
CHROMIUM BORON CARBIDE 67-04 M13-67865
THE STRUCTURE OF THE ZRCR2-TACR2 SYSTEM 67-04 M14-66165
THE NATURE AND TYPE OF SULFUR SOLUTIONS IN FE-S-NI AND FE-S-CR SYSTEMS 67-04 M14-66655
CONTRIBUTION TO THE CR-C-N SYSTEM 67-04 M14-66915
DIFFUSION IN A TERNARY SUBSTITUTIONAL SYSTEM--APPLICATION TO THE COBALT-NICKEL-CHROMIUM SYSTEM 67-04 M14-67268
THE CRYSTALLINE STRUCTURE OF V2C 67-04 M16-66912
STUDY OF ISOTHERMAL TRANSFORMATIONS IN SEMI-FERRITIC STAINLESS STEELS WITH 17 PER CENT CHROMIUM 67-05 M14-69114
CRSI2-MOSI2 DIAGRAM 67-06 M13-70170
PHASE EQUILIBRIA IN CR-CO-B, MN-FE-B AND MN-CO-B SYSTEMS 67-06 M13-70215
W-CR-C TERNARY SYSTEM 67-06 M14-69993

CHROMIUM

TITANIUM-CHROMIUM-VANADIUM SYSTEM
67-06 M14-71079
OPTICAL ABSORPTION OF ALUMINIUM AND SOME ALUMINIUM-MAGNESIUM ALLOYS 67-06 M16-70572
SUPERPLASTICITY IN THE NI-FE-CR SYSTEM
67-06 M17-71073
TERNARY COMPOUNDS WITH A SUPERLATTICE OF THMN12 TYPE IN THE YTTRIUM-TRANSITION METAL-ALUMINUM SYSTEMS 67-07 M13-73480
NUMERICAL DETERMINATION OF PHASE COMPOSITION IN MULTI-ELEMENT SYSTEMS, FOR EXAMPLE U-C-CR SYSTEM
67-07 M13-74236
LOW TEMPERATURE SPECIFIC HEAT OF BCC ALLOYS OF 3D TRANSITION ELEMENTS WITH 20 PER CENT AL
67-07 M15-73630
FUSIBILITY DIAGRAM OF THE TI-ZR-CR SYSTEM
67-08 M13-75895
EFFECT OF VANADIUM AND MOLYBDENUM ON THE PROPERTIES AND PHASE TRANSFORMATIONS OF THE INTERMETALLIC COMPOUND TICR2 67-08 M13-75957
METAL-REFRACTORY REACTION STUDIES IN THE IRON-CHROMIUM-SILICA SYSTEM 67-08 M14-75035
THE SYSTEM TICR2-TACR2-NBCR2 67-09 M13-76928
INTERACTION BETWEEN THE METALLIDE TICR2 AND VANADIUM 67-09 M13-76942
INTERACTION BETWEEN THE METALLIDE TICR2 AND MOLYBDENUM 67-09 M13-76943
CONTRIBUTION TO THE STUDY OF THE CHEMICAL ACTIVITY OF THE ELEMENTS PHOSPHORUS, SULPHUR, SILICON, COPPER AND CHROMIUM IN MOLTEN IRON SOLUTIONS SATURATED WITH CARBON 67-09 M14-77343
ZIRCONIUM-TANTALUM-CHROMIUM-SYSTEM
67-12 M13-82048
A CONTRIBUTION TO THE CHROMIUM-CARBON-NITROGEN SYSTEM 67-12 M13-82053
THE TERNARY CR-FE-SI SYSTEM 67-12 M13-82124
STRUCTURAL DIAGRAMS AND PHASE REACTIONS OF FE-CR-N TERNARY SYSTEM 67-12 M13-82826
ELECTRICAL RESISTANCE AND THERMAL EXPANSION OF TI-NB-CR ALLOYS 67-12 M15-82422

CHROMIUM, THIN FILMS
ADSORPTION OF GASES ON CHROMIUM FILMS
67-12 M14-82671

CHROMIUM, TRANSPORT PROPERTIES
EFFECT OF STRESS ON THE HALL COEFFICIENT OF CHROMIUM FILMS 67-09 M16-77428

CHROMIUM, X RAY ANALYSIS
REFLECTION OF SOFT X-RAYS FROM THIN LAYERS OF ALUMINUM AND CHROMIUM 67-10 M16-79454
COMPARISON OF ABSORPTION COEFFICIENTS OBTAINED BY DIFFERENT METHODS IN THE ULTRASOFT X-RAY REGION OF THE SPECTRUM 67-10 M16-79456

CHROMIUM BASE ALLOYS
SEE ALSO CHROMIUM NICKEL ALLOYS

CHROMIUM BASE ALLOYS, ATOMIC PROPERTIES
EXPERIMENTAL TEST OF RIGID BAND MODELS FOR CR BY MEANS OF CR-V-MN TERNARY DILUTE ALLOYS
67-12 M16-81760

CHROMIUM BASE ALLOYS, BRAZING
AN ORDERED SOLID SOLUTION IN THE CHROMIUM-MOLYBDENUM SYSTEM 67-09 M13-76935

CHROMIUM BASE ALLOYS, CHEMICAL ANALYSIS
SOME ASPECTS OF THE CHEMICAL DETERMINATION OF NITROGEN IN CHROMIUM AND COMPLEX CHROMIUM ALLOYS
67-02 M19-61567
RESULTS OF THE INVESTIGATION OF THE COMPOSITION OF MAGNESIUM CHROMIUM OXIDE 67-08 M09-74907

CHROMIUM BASE ALLOYS, COATING
SOLUBILITY OF NITROGEN AND NITRIDING KINETICS OF CHROMIUM AND IRON-CHROMIUM ALLOYS CONTAINING UP TO 40 PER CENT FE 67-06 M12-71108

CHROMIUM BASE ALLOYS, COATINGS
SCIENCE FOR ELECTROPLATERS. PT. 115. ALLOYS
67-07 M12-73629

CHROMIUM BASE ALLOYS, CORROSION
THE HIGH-TEMPERATURE CORROSION RESISTANCE OF CHROMIUM ALLOYS WITH ZIRCONIUM
67-02 M18-59956
OXIDATION RESISTANCE OF KH20N80 ALLOY, ALLOYED WITH LANTHANUM AND CERIUM 67-02 M18-60063
CORROSION RESISTANCE OF STRUCTURAL MATERIALS IN SODIUM CHLORITE SOLUTIONS 67-04 M18-66591
CORROSION AND ELECTROCHEMICAL BEHAVIOR OF FE-CR ALLOYS IN BOILING CONCENTRATED HNO3
67-04 M18-67279
CORROSION AND RADIATION EFFECTS MUST BE MINIMIZED IN FUELS FOR AUTOMOTIVE TURBINE ENGINES
67-09 M18-77569
THE HIGH-TEMPERATURE OXIDATION OF FE-CR ALLOYS IN THE COMPOSITION RANGE OF 25-95 PER CENT CR
67-10 M18-79963

CHROMIUM BASE ALLOYS, CRYSTAL LATTICES
THE EXISTENCE OF A CHROMIUM-MOLYBDENUM A15 STRUCTURE 67-04 M13-67110

CHROMIUM BASE ALLOYS, DIFFUSION
THE EFFECT OF CONCENTRATION ON THE INTERDIFFUSION COEFFICIENT OF CHROMIUM IN CHROMIUM-IRON ALLOYS
67-02 M14-61773
DIFFUSION PROCESSES IN CHROMIUM-IRON ALLOYS
67-05 M14-68247

CHROMIUM BASE ALLOYS, ELECTRICAL PROPERTIES
ELECTRICAL RESISTIVITY STUDIES OF CHROMIUM-RICH CHROMIUM-COBALT ALLOYS 67-05 M15-69522
INFLUENCE OF CONDENSATION RATE ON ELECTRICAL PROPERTIES OF SILICIDE THIN FILMS
67-06 M15-71474
OCCURRENCE OF A MINIMUM IN THE ELECTRICAL RESISTIVITY OF CHROMIUM ALLOYS AT LOW TEMPERATURE
67-07 M15-73530
ELECTRICAL MAGNETORESISTIVITY OF CHROMIUM-IRON ALLOYS 67-08 M15-75129
THE DEPENDENCE OF THE ELECTRICAL CHARACTERISTICS OF NI-CR THIN FILMS ON EVAPORATION PARAMETERS
67-08 M15-75183
ELECTRICAL RESISTIVITY STUDIES OF CHROMIUM RICH CHROMIUM-GERMANIUM ALLOYS BETWEEN 4 AND 320 K
67-11 M15-81675
ELECTRICAL RESISTIVITY OF CHROMIUM ALLOYS
67-12 M15-81766
INVESTIGATION OF THE EFFECT OF CONDENSATION RATE OF SILICIDE FILMS ON THEIR ELECTRICAL CHARACTERISTICS 67-12 M15-82795
THERMOELECTRIC POWER AND RESISTIVITY OF CHROMIUM-RICH CR-FE ALLOYS BETWEEN 25 AND 1000 C
67-12 M15-83260

CHROMIUM BASE ALLOYS, HARDENING
PRECIPITATION-HARDENING BEHAVIOR AND MECHANICAL PROPERTIES OF HEAT-RESISTING ALLOYS CONTAINING UP TO 35 PER CENT COBALT 67-06 M17-70599

CHROMIUM BASE ALLOYS, HEAT TREATMENT
SOLUBILITY OF NITROGEN IN CHROMIUM AND IRON-CHROMIUM ALLOYS CONTAINING UP TO 40 PER CENT IRON, AND KINETICS OF THE NITRIDING PROCESS
67-10 M10-79656
KINETICS AND MECHANISM OF THE HIGH-TEMPERATURE SULPHURIZATION OF NICKEL-CHROMIUM ALLOYS
67-11 M14-80359

CHROMIUM BASE ALLOYS, MAGNETIC PROPERTIES
THE MAGNETIC PROPERTIES OF SIGMA PHASE ALLOYS
67-01 M15-58669
ANTIFERROMAGNETISM IN CHROMIUM ALLOYS. PT. 1. NEUTRON DIFFRACTION 67-02 M15-60760
FIRST ORDER TRANSITION BETWEEN ENTIFERROMAGNETIC AND SINUSOIDAL STRUCTURE OF DILUTE FE-CR ALLOY
67-04 M15-67367
NEUTRON-DIFFRACTION STUDY OF DILUTE CHROMIUM ALLOYS WITH IRON 67-04 M16-68142
NEUTRON-DIFFRACTION STUDY OF CR AND CR ALLOYS
67-07 M15-73542
ANTIFERROMAGNETISM IN DILUTE CR-FE ALLOYS
67-08 M15-76172
MECHANICAL PROPERTIES OF FE-CR ALLOYS EMBRITTLED AT 475 C 67-08 M17-74438
STUDY OF THE PHYSICAL PROPERTIES OF CR-TE-S, CR-TE-SE AND CR-TE-SB ALLOYS 67-10 M15-79836

CHROMIUM BASE ALLOYS, MECHANICAL PROPERTIES
TIC.. A NEW ERA IN CUTTING TOOLS
67-03 M17-65011
SUPERPLASTICITY AND LOW-TEMPERATURE DUCTILITY IN A CR-30 AT. PER CENT CO ALLOY 67-03 M17-65099
THE EFFECT OF ANNEALING TEMPERATURE ON INTERNAL FRICTION AND SHEAR MODULUS OF PURE CHROMIUM AND ALLOYS OF CHROMIUM WITH YTTRIUM AND GADOLINIUM
67-04 M17-66825
INTERNAL FRICTION AND SHEAR MODULUS OF NICKEL-CHROMIUM-BASE HEAT RESISTANT ALLOYS
67-04 M17-66826
INFLUENCE OF ATMOSPHERIC NITROGEN ON THE CREEP PROPERTIES OF CHROMIUM-TANTALUM ALLOYS
67-05 M17-68211
INFLUENCE OF A CERAMIC ENVIRONMENT ON THE CREEP PROPERTIES OF CHROMIUM ALLOYS
67-06 M17-70800
CHROMIUM AND CHROMIUM ALLOYS 67-06 M17-71405
EFFECTS OF IRON AND MOLYBDENUM ON THE HIGH-TEMPERATURE PROPERTIES OF CHROMIUM BASE ALLOYS
67-09 M17-78238
THE DEVELOPMENT OF CHROMIUM-BASE ALLOYS FOR USE AT

HIGH TEMPERATURES 67-12 M01-82079

CHROMIUM BASE ALLOYS, MELTING
FABRICATION OF CHROMIUM-BASE ALLOYS 67-08 M01-74515

CHROMIUM BASE ALLOYS, NUCLEAR PHYSICS
NUCLEAR ZEEMAN EFFECT OF 119SN DISSOLVED IN CHROMIUM 67-02 M16-60592

CHROMIUM BASE ALLOYS, OXIDATION
HEAT RESISTANCE OF CHROMIUM AND CHROMIUM ALLOYS WITH ADDITIONS OF MGO 67-04 M18-67283
STRUCTURAL TRANSFORMATIONS TAKING PLACE DURING THE OXIDATION OF CHROMIUM ALLOYS CONTAINING YTTRIUM 67-10 M18-78960
THE KINETICS OF THE OXIDATION PROCESS IN NICKEL-CHROMIUM-BASE ALLOYS 67-11 M18-80360

CHROMIUM BASE ALLOYS, PHYSICAL PROPERTIES
THE VISCOSITY OF LIQUID SILICON, CHROMIUM AND ITS SILICIDES 67-06 M15-69972
INVESTIGATION OF THE STRUCTURE AND SOME ELECTRIC CHARACTERISTICS OF CHROMOSILICON FILMS IN THE PROCESS OF THEIR HEAT TREATMENT 67-06 M15-71473
THE HALL EFFECT IN CHROMIUM-VANADIUM ALLOYS AT ROOM AND LIQUID N2 TEMPERATURES IN FIELDS UP TO 100 KOE 67-12 M15-82293
INVESTIGATION OF THE STRUCTURE AND CERTAIN ELECTRICAL CHARACTERISTICS OF CHROMOSILICON FILMS DURING HEAT TREATMENT 67-12 M15-82794

CHROMIUM BASE ALLOYS, REACTIONS /CHEMICAL/
A STUDY OF NITROGEN IN A CHROMIUM-YTTRIUM ALLOY 67-06 M14-71606

CHROMIUM BASE ALLOYS, SOLUBILITY
THE SOLUBILITY OF CARBON AND GASES IN METALS 67-08 M14-75029

CHROMIUM BASE ALLOYS, THERMAL PROPERTIES
THERMAL EXPANSION OF SOLID SOLUTIONS OF REFRACTORY METALS OF THE 4, 5, AND 6 GROUPS IN THE PERIODIC TABLE 67-01 M15-58081
THERMAL EXPANSION OF SOLID SOLUTIONS OF METALS OF GROUPS VI, V AND IV OF THE PERIODIC SYSTEM WITH HIGH MELTING POINTS 67-08 M15-74995

CHROMIUM BASE ALLOYS, WELDING
INDUCTION BUILDUP OF DISKS OF A BEET-HARVESTING COMBINE 67-04 M11-67815
INDUCTION HARDFACING OF DISCS OF BEET COMBINE HARVESTERS 67-06 M11-70315
WELDING HELPS MAKE PIPERS PAWNEE ONE OF THE SAFEST PLANES 67-10 M11-78661

CHROMIUM COATINGS
SEE CHROMIUM METAL COATINGS

CHROMIUM COMPOUNDS, AGENTS
COBALT --3-- AND CHROMIUM --3-- COMPLEX COMPOUNDS AS BRIGHTENERS IN CYANIDE ZINC BATHS 67-05 M12-68715

CHROMIUM COMPOUNDS, ALLOYING ADDITIVE
EFFECTIVENESS OF USING CHROMIUM ORE IN THE PRODUCTION OF CHROMIC ELECTRIC ARC STEELS 67-02 M04-61957

CHROMIUM COMPOUNDS, BENEFICIATION
TECHNIQUES FOR THE AGGLOMERATION OF CHROMITE ORES AND CONCENTRATES 67-02 M02-59537
SEMI-INDUSTRIAL TESTS OF TECHNIQUES FOR THE SELECTIVE CHLORINATION OF CHROMIUM ORES 67-02 M02-59565
BENEFICIATING LEAN CHROMITE ORES BY THE MAGNETIC ROASTING METHOD 67-04 M02-66076
ROAST AND MAGNETIC BENEFICIATION OF CHROMITE ORES IN ENLARGED FACILITIES 67-09 M02-77059

CHROMIUM COMPOUNDS, BINARY SYSTEMS
SOME INVESTIGATIONS ON THE ELECTRIC AND MAGNETIC PROPERTIES OF CR2O3-BEO SYSTEM 67-08 M15-74779

CHROMIUM COMPOUNDS, CHEMICAL ANALYSIS
APPLICATION OF THE ELECTRON BEAM MICROPROBE TO THE PROBLEM OF METAL EXTRACTION 67-12 M19-81960

CHROMIUM COMPOUNDS, COATINGS
COMBATTING WEAR PROBLEMS IN WIRE DRAWING OPERATIONS 67-02 M08-58974
CHROMIZING MOLYBDENUM FOR GLASS SEALING 67-02 M12-60698

CHROMIUM COMPOUNDS, COMBUSTION
THE ROLE OF GAS PRESSURE AND HEAT TRANSFER IN THERMOMETALLURGY 67-02 M03-60731

CHROMIUM COMPOUNDS, CRYSTAL GROWTH
MEASUREMENT OF NITRIDE KINETICS ON CHROMIUM BY ELLIPSOMETRY 67-06 M14-71622

CHROMIUM COMPOUNDS, CRYSTAL LATTICES
EFFECT OF NEUTRON IRRADIATION ON THE PROPERTIES OF TITANIUM AND CHROMIUM CARBIDES 67-02 M09-59609
CORRELATED STRUCTURE IN EVAPORATED CERMET FILMS 67-10 M13-79169
THE STRUCTURE AND EVOLUTION OF CRYSTALLINE PARAMETERS IN THE SOLID SOLUTION --CR,FE--7C3 67-10 M13-79587

CHROMIUM COMPOUNDS, ELECTRICAL PROPERTIES
THE TEMPERATURE DEPENDENCE OF THE THERMO-EMF AND OF THE ELECTRICAL RESISTIVITY OF TITANIUM, VANADIUM, CHROMIUM AND THEIR BORIDES, CARBIDES AND NITRIDES 67-01 M15-58348
ELECTRICAL RESISTIVITY OF SINGLE CRYSTAL CRO2 67-03 M16-65649
ELECTRICAL AND MAGNETIC PROPERTIES OF SOLID SOLUTIONS OF VANADIUM AND TITANIUM DISILICIDES IN CHROMIUM DISILICIDE 67-09 M15-76916

CHROMIUM COMPOUNDS, FERRITES
STUDY OF MAGNETIC RESISTANCE OF ORIENTED HEXAGONAL FERRITES 67-04 M15-66485

CHROMIUM COMPOUNDS, INCLUSIONS
THE STUDY OF SULFURIZED HIGH-SPEED STEEL. PT. 3. INCLUSIONS IN SULFURIZED HIGH-SPEED STEEL 67-02 M13-59116
DIAGRAM SHOWING PHASE RELATIONS OF THE OXIDE INCLUSIONS FORMED IN STEELS OF THE FE-CR-O SYSTEM 67-02 M13-60623
ON THE SOLUBILITY OF THE NITRIDES OF CHROMIUM, VANADIUM AND ALUMINUM IN AUSTENITE 67-04 M14-67391

CHROMIUM COMPOUNDS, MAGNETIC PROPERTIES
PRESSURE EFFECT ON MAGNETIC TRANSITIONS IN CRS1.17 67-04 M15-67481
EFFECT OF DOMAIN STRUCTURE ON THE MAGNETIC PROPERTIES OF CHROMIUM OXIDE 67-05 M15-69024
MAGNETIC CRITICAL-POINT BEHAVIOR OF CRO2 67-07 M15-73502
MAGNETIC PROPERTIES OF THE IRON-GROUP METAL PHOSPHIDES 67-07 M15-73545
STUDY OF THE PHYSICAL PROPERTIES OF CR-TE-S, CR-TE-SE AND CR-TE-SB ALLOYS 67-10 M15-79836
STRUCTURAL AND MAGNETIC STUDY OF ARSENIDES M2AS 67-12 M15-83220

CHROMIUM COMPOUNDS, MECHANICAL PROPERTIES
EFFECT OF ATOMIC ORDERING ON STRAIN AGING OF NI2CR ALLOY 67-08 M14-75281

CHROMIUM COMPOUNDS, PHYSICAL PROPERTIES
THE REFLECTION SPECTRA OF SOLIDS, CONDITIONS AND LIMITS OF THE QUANTITATIVE EVALUATION OF THE KUBELKA-MUNK FUNCTION 67-04 M15-67252
MICROMETHOD FOR DETERMINING THE FUSION POINTS OF REFRACTORY COMPOUNDS 67-05 M15-68705
INVESTIGATION OF THE CR-SI SYSTEM IN THE DISILICIDE REGION 67-05 M16-68708
THE VISCOSITY OF LIQUID SILICON, CHROMIUM AND ITS SILICIDES 67-06 M15-69972
THE FREE ENERGIES OF FORMATION OF CRS, MO2S3, AND WS2 67-12 M15-82572
PHYSICAL PROPERTIES OF BORIDE PHASES IN CHROMIUM 67-12 M15-83365

CHROMIUM COMPOUNDS, POWDER METALLURGY
PREPARATION OF HIGH-POROSITY MATERIALS FROM REFRACTORY COMPOUNDS 67-02 M09-62189
CARBOTHERMAL METHOD OF PREPARATION OF CHROMIUM, MOLYBDENUM AND ZIRCONIUM BORIDES 67-04 M09-66261
MAKING POROUS PARTS OF CHROMIUM CARBIDE WITH APPLICATION OF VOLATILE FILLERS 67-08 M09-74307
PREPARATION OF HIGH-POROSITY MATERIALS FROM REFRACTORY COMPOUNDS 67-08 M09-75965
CARBOTHERMIC METHOD OF PREPARATION OF CHROMIUM, MOLYBDENUM, AND ZIRCONIUM BORIDES 67-10 M09-78993

CHROMIUM COMPOUNDS, RADIATION EFFECTS
RADIATION EFFECTS IN TITANIUM CARBIDES AND CHROMIUM CARBIDES 67-02 M01-60975
EFFECT OF NEUTRON IRRADIATION ON THE PROPERTIES OF TITANIUM AND CHROMIUM CARBIDES 67-09 M16-76927

CHROMIUM COMPOUNDS, REACTIONS /CHEMICAL/
TOPOTAXY IN DECOMPOSITION OF CRO2 67-05 M15-68613
THE NATURE OF THE INTERACTION OF ZIRCONIUM DIOXIDE WITH TITANIUM, NIOBIUM AND CHROMIUM CARBIDES 67-06 M14-71101
ON THE DECOMPOSITION OF CRO2 IN AIR 67-08 M14-76000

CHROMIUM COMPOUNDS, REDUCTION /CHEMICAL/

ON THE PREPARATION OF SOME CHROMIUM, MOLYBDENUM AND TUNGSTEN BORIDES 67-12 M14-81830

CHROMIUM COMPOUNDS, REFINING
REDUCING CHROMIUM OXIDE FROM AN OXIDE MELT BY ALUMINUM 67-02 M03-62265

CHROMIUM COMPOUNDS, SOLUBILITY
STRUCTURAL CHARACTERISTICS OF SOLID SOLUTIONS CRSI2-VSI2 AND CRSI2-TISI2 67-04 M13-66264
STUDY ON THE DISSOLUTION OF SUSPENDED OXIDE PARTICLES IN MOLTEN IRON 67-06 M04-71746
STRUCTURAL CHARACTERISTICS OF SOLID SOLUTIONS OF CHROMIUM DISILICIDE WITH VANADIUM AND TITANIUM DISILICIDES 67-10 M13-78996

CHROMIUM COMPOUNDS, SPALLING
THE SPALLING OF CHROMIUM OXIDE ON AN FE-CR ALLOY 67-05 M18-68641

CHROMIUM COMPOUNDS, SYNTHESIS
PREPARATION OF CHROMIUM SULFIDES 67-12 M14-81817

CHROMIUM COMPOUNDS, TERNARY SYSTEMS
REACTION OF CHROMIUM, MOLYBDENUM, AND TUNGSTEN BORIDES WITH CARBON 67-02 M14-61634

CHROMIUM COMPOUNDS, THERMAL PROPERTIES
SPECIFIC HEAT, ENTHALPY, AND ENTROPY OF CR5SI3 AND CRSI2 67-11 M15-80494

CHROMIUM COMPOUNDS, THERMODYNAMICS
THERMODYNAMIC CALCULATION OF EQUILIBRIA IN THE SYSTEM CARBIDE-OXYGEN 67-08 M15-74310

CHROMIUM COMPOUNDS, TRANSPORT PROPERTIES
NEUTRON DIFFRACTION AND ELECTRICAL TRANSPORT PROPERTIES OF CUCR2SE4 67-09 M16-77013
PRESSURE EFFECTS ON CHARGE TRANSPORT IN NICKEL AND CHROMIUM OXIDES 67-09 M16-77443

CHROMIUM COMPOUNDS, WELDING RODS
INVESTIGATION OF HARDFACING RODS OF CHROMIUM CARBIDE ALLOY 67-02 M09-62134

CHROMIUM IRON, CASTING
WEAR-RESISTANT CYLINDER SLEEVES 67-07 M06-74051

CHROMIUM IRON, MICROSTRUCTURE
MORPHOLOGY OF THE EUTECTIC IN FE-C-CR ALLOYS 67-08 M13-76029

CHROMIUM MOLYBDENUM NICKEL STEELS
SEE NICKEL CHROMIUM MOLYBDENUM STEELS

CHROMIUM MOLYBDENUM STEELS
SEE ALSO NICKEL CHROMIUM MOLYBDENUM STEELS

CHROMIUM MOLYBDENUM STEELS, CASTINGS
ON THE FORMATION OF CONCHOIDAL FRACTURE IN CAST STEEL 67-07 M17-72718

CHROMIUM MOLYBDENUM STEELS, CORROSION
SOME VIEWPOINTS ON HIGH-TEMPERATURE CORROSION WITH THE COMBUSTION OF GAS, COAL AND OIL 67-02 M18-62013
INVESTIGATIONS ON THE HIGH-TEMPERATURE CORROSION OF OIL-FIRED BOILERS 67-02 M18-62017

CHROMIUM MOLYBDENUM STEELS, EXTRUSION
TRANSVERSE EXTRUSION. PT. 2. 67-02 M08-60000

CHROMIUM MOLYBDENUM STEELS, FORGINGS
CURRENT PROBLEMS ON HARDENED FORGED STEEL WORK ROLLS FOR COLD STRIP MILLS 67-02 M07-60717

CHROMIUM MOLYBDENUM STEELS, HEAT TREATMENT
DIMENSIONAL CHANGES IN HEAT TREATING OPERATIONS AND THEIR PREVENTION BY PROPER DESIGN WITH EMPHASIS ON SIMPLE HEAT TREATING METHODS 67-01 M10-58722
GRAIN REFINING DURING THE ALPHA TO GAMMA TRANSFORMATION RANGE AS A FUNCTION OF THE HEATING RATE 67-01 M14-58446
HIGH-TEMPERATURE CARBURIZATION IN SALT AND GAS 67-02 M10-60501
STRUCTURAL CHANGES IN HEAT RESISTANT 13CRMO 4 4 AND 10 CRMO 9 10 STEELS AFTER EXTENDED ANNEALING AT 550 TO 780 C 67-09 M14-77087
RADIOGRAPHIC EXAMINATION OF CREEP AND ANNEALING SPECIMENS OF STEEL 10 CRMO 9 10 67-11 M14-81377

CHROMIUM MOLYBDENUM STEELS, MECHANICAL PROPERTIES
RESIDUAL STRESSES AND FATIGUE STRENGTH OF INDUCTION-HARDENED SHAFTS WITH TRANSITIONS IN CROSS SECTION 67-01 M17-57923
THE EFFECT OF COOLING RATES DURING HARDENING ON THE TOUGHNESS OF HOT WORK TOOL STEELS 67-01 M17-58337
CREEP-RUPTURE PROPERTIES OF 1 PER CENT CR-0.5 PER CENT MO, 1.25 PER CENT CR-0.5 PER CENT MO AND 2.25 PER CENT CR-1 PER CENT MO STEELS FOR BOILERS AND CHEMICAL USES 67-01 M17-58563
PROPERTIES OF CONTINUOUSLY CAST PRODUCTS 67-02 M17-59138
INFLUENCE OF RESIDUAL STRESSES ON FATIGUE STRENGTH OF 30KHGSA STEEL 67-02 M17-59773
EFFECT OF ADDITIONS OF FERRO-CERIUM AND SILICOCALCIUM ON THE PROPERTIES OF CAST 35KH2GM STEEL 67-02 M17-61811
THE PROPERTIES OF NORMALIZED AND TEMPERED AND OF QUENCHED AND TEMPERED 6-1/4-INCH-THICK PLATES OF 2-1 4CR-1MO STEEL 67-03 M17-65001
ELEVATED TEMPERATURE PROPERTIES OF HEAVY GAUGE CR-MO STEEL PLATES 67-03 M17-65312
FROM EUROPE COMES A GROUP OF WELL-TRIED CR-MO AND CR-MO-V NITRIDING STEELS 67-03 M17-65982
CREEP-RUPTURE PROPERTIES OF CENTRIFUGALLY CAST 1 1/4CR-1/2MO ALLOY STEEL PIPE 67-04 M17-66234
LONG-TERM RUPTURE STRENGTH OF ALLOYS AND PLASTICS FROM TENSILE STRENGTH AT ELEVATED TEMPERATURES 67-04 M17-66235
SUPPLEMENTAL REPORT ON THE ELEVATED-TEMPERATURE PROPERTIES OF CHROMIUM-MOLYBDENUM STEELS 67-04 M17-66289
PROBLEM OF DETERMINING THE WORKING CYCLES OF STEEL IN CONDITIONS OF LOAD AT HIGH TEMPERATURES 67-04 M17-67136
CHROMIUM-MOLYBDENUM NITRIDING STEELS WITH 2.5/3.5 PER CENT CR 67-06 M17-70037
THE EFFECTS OF EXTENDED ANNEALING AT 500 TO 700 C. ON THE CREEP CHARACTERISTICS OF 13 CR MO 44 AT 550 C 67-06 M17-70260
MATERIALS FOR BOILERS AND NUCLEAR REACTOR VESSELS 67-06 M17-72249
CREEP OF THICK-WALLED CYLINDERS UNDER REPEATED VARYING INTERNAL PRESSURE 67-07 M17-72980
HOT TENSILE PROPERTIES OF 1/2 PER CENT CR-1/2 PER CENT MO-1/4 PER CENT V AND 2 1/4 PER CENT CR-1 MO STEAM PIPE MATERIAL 67-08 M17-75361
MECHANICAL PROPERTIES OF METALS 67-08 M17-75600
INFLUENCE OF RESIDUAL STRESSES ON THE FATIGUE RESISTANCE OF 30KHGSA STEEL 67-08 M17-76131
MODIFIED 12 PER CENT CHROMIUM STEELS 67-09 M01-77678
DEFORMATION PHENOMENA AND CRACK FORMATION IN ROUND SPECIMENS OF A HARDENED CR-MO STEEL IN ROTATING BENDING FATIGUE TESTING 67-09 M17-77086
INFLUENCE OF INTERMEDIARY COOLING ON THE PRIMARY CREEP OF CRMOV ALLOYED STEELS 67-09 M17-77586
INFLUENCE OF FERROCERIUM AND CALCIUM SILICIDE ON THE PROPERTIES OF LOW ALLOY CAST STEEL 35KH2GM 67-09 M17-78083
INTERNATIONAL COMMUNITY TESTS ON LONG-TERM BEHAVIOUR OF 2 1/4 PER CENT CR-1 PER CENT MO STEEL 67-11 M17-80254
SOME OBSERVATIONS ON THE REPRODUCIBILITY OF CREEP RATE DETERMINATIONS 67-11 M17-80256
HIGH-TEMPERATURE PROPERTIES OF AN IMPROVED 1 PER CENT CR STEEL 67-11 M17-80260
THE CREEP PROPERTIES OF LOW-ALLOY CR-MO-V STEELS WITH LOW CARBON CONTENT 67-11 M17-80261
HIGH-TEMPERATURE PROPERTIES OF 9 PER CENT CR-1 PER CENT MO STEEL 67-11 M17-80263
ELEVATED-TEMPERATURE TENSILE, CREEP, AND RUPTURE PROPERTIES OF 1 PER CENT CR-1/2 PER CENT MO, 2 1/4 PER CENT CR-1 PER CENT MO AND 1/2 PER CENT CR-1/2 PER CENT MO-1/4 PER CENT V STEELS 67-11 M17-80267
RELAXATION TESTS OF HIGH-TEMPERATURE STRUCTURAL STEELS AND CAST STEEL 67-11 M17-80511
EFFECT OF CHLORIDE SALTS OF ALKALI AND ALKALI-EARTH ELEMENTS ON THE PROPERTIES OF 15KH1M1FL STEEL ELEMENTS ON THE PROPERTIES 67-12 M04-83028
KINETICS OF STRUCTURAL TRANSFORMATIONS AND FAILURE OF HEAT RESISTANT ALLOYS AT CREEP 67-12 M17-81833
THE DURABILITY OF THE MELTING VESSEL IN THE ZN-DESILVERIZATION OF PB 67-12 M17-82830
EFFECT OF TEMPERING TEMPERATURE ON THE FATIGUE STRENGTH OF LONGITUDINAL AND TRANSVERSE SPECIMENS OF STEELS OF VARIOUS PURITY 67-12 M17-82842
INCREASE IN THE FATIGUE STRENGTH OF HIGH-STRENGTH STRUCTURAL ALLOY STEELS THROUGH BATH NITRIDING AS A FUNCTION OF CORE STRENGTH AND NITRIDING TIME 67-12 M17-82846
A FRACTOGRAPHIC INVESTIGATION OF THE EFFECT OF ENVIRONMENT ON FATIGUE-CRACK PROPAGATION IN AN ULTRAHIGH-STRENGTH STEEL 67-12 M17-83045

CHROMIUM MOLYBDENUM STEELS, MICROSTRUCTURE

STUDY ON THE AUSTENITE GRAIN SIZE AND ITS COARSENING BEHAVIOR OF ALUMINUM KILLED STEEL 67-02 M14-60156
MICROSCOPIC OBSERVATIONS OF PRECIPITATES IN SOME LOW-ALLOY STEELS AFTER CREEP TESTING 67-03 M13-65820

CHROMIUM MOLYBDENUM STEELS, PHASE TRANSFORMATIONS
STUDY ON TRANSFORMATION FEATURES OF CARBURIZING CR-MO STEELS 67-01 M14-58309
NEWER METHODS TO IMPROVE THE MECHANICAL PROPERTIES OF STEEL THROUGH DEFORMATION 67-02 M17-60506
THE CRYSTALLOGRAPHY OF CEMENTITE PRECIPITATION IN THE BAINITE TRANSFORMATION 67-09 M13-77591
TRANSFORMATION FEATURES OF CARBURIZED CR-MO STEELS 67-09 M14-76757
PHASE TRANSFORMATIONS AND CHANGE IN STRUCTURE DURING HEATING OF CR-MN-MO AUSTENITIC-MARTENSITIC STEEL 67-11 M14-81158

CHROMIUM MOLYBDENUM STEELS, PHASES /STATE OF MATTER/
FORMATION OF SIGMA PHASE IN FE-45 PER CENT CR ALLOYS AND EFFECTS OF MOLYBDENUM ADDITIONS ON ITS DILATOMETRIC PROPERTIES 67-02 M14-59979

CHROMIUM MOLYBDENUM STEELS, REFINING
IMPROVING THE QUALITY OF CONSTRUCTION STEELS WHEN BLOWING WITH ARGON IN THE LADLE 67-02 M04-62145

CHROMIUM MOLYBDENUM STEELS, STEEL MAKING
MANUFACTURE OF STEEL FOR BOILER TUBE IN BOF AND QUALITY THEREOF 67-04 M04-67512

CHROMIUM MOLYBDENUM STEELS, WELDING
WELDING OF KH8VL STEEL CAST FITTINGS TO PREVIOUSLY WELDED KH8VF STEEL TUBES 67-02 M11-60011
A TECHNOLOGY FOR WELDING UP CRACKS IN HIGH-PRESSURE STEAM TURBINE CYLINDERS 67-02 M11-61044
THE CONDITIONS UNDER WHICH WELDS COOL DURING THE WELDING OF HARDENABLE STEELS 67-02 M11-61053
ARC WELDING OF COMBINED BUTTS OF STEAM HEATER PIPES IN 12KH1MF PLUS 1KH18N12T --1KH18N9T-- STEEL 67-06 M11-70396
ARC BUTT WELDS BETWEEN STEAM SUPERHEATER TUBES MADE OF GRADES 12KH1MF AND 1KH18N12T --1KH18N12T-- STEELS 67-09 M11-78096
WELD METAL OF THE JOINTS OF DIFFERENT STEELS FOR TEMPERATURES OVER 550 C 67-12 M11-82633

CHROMIUM NICKEL ALLOYS, CORROSION
HOT CORROSION OF REFRACTORY ALLOYS BY COMBUSTION DEPOSITS CONTAINING LEAD 67-01 M18-57161
NICKEL ALLOYS FIGHT BACK AT CORROSION 67-01 M18-58590
ALLOYS CONTAINING LARGE AMOUNTS OF COPPER AND NICKEL FOR USE IN SEA WATER 67-01 M18-58734

CHROMIUM NICKEL ALLOYS, MECHANICAL PROPERTIES
INFLUENCE OF DIFFERENT HEAT TREATMENTS ON THE CREEP PROPERTIES OF A HIGH-TEMPERATURE CHROMIUM-NICKEL ALLOY WITH AN ADDITION OF MOLYBDENUM 67-02 M17-60655
INFLUENCE OF MOLYBDENUM ON THE PROPERTIES OF KH15N85 ALLOY 67-05 M17-68357
NICKEL-CHROMIUM ALLOYS WITH NIOBIUM 67-05 M17-68360

CHROMIUM NICKEL ALLOYS, PHASES /STATE OF MATTER/
SOLUBILITY OF NB IN NI-CR SOLID SOLUTION 67-03 M13-65795

CHROMIUM NICKEL MOLYBDENUM STEELS
SEE NICKEL CHROMIUM MOLYBDENUM STEELS

CHROMIUM NICKEL STEELS
SEE NICKEL CHROMIUM STEELS

CHROMIUM PLATING
QUICKER SINGLE-LAYER MICROCRACKED CHROMIUM 67-01 M12-57213
NO TIME FOR REWORK 67-02 M12-59036
PRACTICAL PROBLEMS IN BRIGHT AND HARD CHROMIUM PLATING 67-02 M12-59045
MODERN DEVELOPMENTS AND TRENDS IN ELECTROPLATING 67-02 M12-59970
PLATING PROCESSES FOR REDUCED MAINTENANCE 67-02 M12-60237
SOME PRODUCTION PLATING PROBLEMS AND HOW THEY WERE SOLVED. PT. 8 67-02 M12-60684
NEW CHROMIUM PLATING PROCESS 67-02 M12-60885
A NEW BLACK CHROMIUM PLATE 67-03 M12-65326
BLACK CHROME MAKES ITS BID FOR PLATED PARTS 67-03 M12-65409
HOW AUTO ENGINEERS ARE ATTACKING THE CORROSION PROBLEM 67-03 M18-65209
BRIGHT FUTURE SEEN FOR BLACK CHROMIUM 67-04 M12-66276
CU-NI AND CU-NI-CR COATINGS OF ZINC PARTS 67-04 M12-67186
PLATED ABS CHALLENGES DIECASTINGS 67-04 M12-67488
DECORATIVE PLATING IN THE GERMAN MOTORCAR INDUSTRY. PT. 2 67-04 M12-67751
FLEXIBLE PERFORMANCE PLATER 67-04 M12-68165
IMPROVEMENT IN CORROSION RESISTANCE OF DECORATIVE NICKEL-CHROMIUM DEPOSITS 67-04 M18-66721
HARD CHROME PLATING LENGTHENS LIFE OF MOLDS 67-05 M12-68665
THE EFFECT OF THE UNDERLYING METAL ON THE INTERNAL STRESS AND FORMATION OF MICROCRACKS IN ELECTRODEPOSITED CHROMIUM 67-05 M12-68822
THEORY AND PRACTICE IN THE PLATING OF ABS PLASTICS PT. 2 67-05 M12-68902
OPERATING A BLACK CHROME BATH 67-05 M12-69558
IMPROVEMENT IN CORROSION RESISTANCE OF DECORATIVE NICKEL-CHROMIUM PLATING 67-05 M18-68417
TAPE CONTROLS PLATING AT GM 67-05 M20-68437
CHROME-PLATED DIE CAST ZN PARTS IN THE AMERICAN AUTOMOTIVE INDUSTRY 67-06 M12-70039
ADDITIVES IN HARD CHROMIUM PLATING BATHS 67-06 M12-71071
THE PROPERTIES OF SUPERCOATING 67-06 M18-72297
CLOSING THE LOOP ON CHROME RECOVERY 67-07 M12-72515
THE STATE OF THE ART OF ELECTROPLATED ABS AND OTHER PLASTICS 67-07 M12-72769
PROPERTIES AND CHARACTERISTICS OF HARD CHROMIUM COATINGS 67-07 M12-73077
DEVELOPMENTS IN NICKEL AND CHROMIUM DECORATIVE COATINGS AND IN ELECTROFORMING WITH NICKEL. PT. 1 67-07 M12-73129
MECHANICAL HYSTERESIS IN DEFORMED COPPER CRYSTALS 67-07 M17-72656
MICROCRACKED OR MICROPOROUS CHROMIUM PLATING 67-07 M17-73819
PREPARATION CAN LOWER COST OF PLATING ZINC DIE CASTINGS 67-08 M12-74494
SCIENCE FOR ELECTROPLATERS. PT. 116. POROSITY 67-08 M12-74616
DEVELOPMENTS IN NICKEL AND CHROMIUM DECORATIVE COATINGS AND IN ELECTROFORMING WITH NICKEL. PT. 2 67-08 M12-74948
CHROMIUM CONVERSION COATING 67-08 M12-75377
A COMPARATIVE STUDY OF SOME MODERN BRIGHT NICKEL-CHROMIUM SYSTEMS 67-08 M12-76076
ANOTHER BLACK CHROMIUM PLATE IS DEVELOPED 67-08 M12-76184
PLATING PROGRESS 67-09 M12-76425
FLUORIDE IN CHROMIUM PLATING BATHS.. DETERMINATION OF ACTIVITY AND CONCENTRATION 67-09 M12-76995
SURFACE PROPERTIES OF VARIOUS ELECTROLYTIC CHROMIC ACID TREATED STEEL SHEETS 67-09 M12-77334
BLACK CHROMIUM PLATING AT COMMERCIAL PLATING 67-09 M12-77695
THE CROMYLITE PROCESS 67-09 M12-77797
SOME PRODUCTION PLATING PROBLEMS AND HOW THEY WERE SOLVED. PT. 12 67-09 M12-78058
A MORE UNIFORM, MORE ADHERENT PLATE ON ZINC 67-09 M12-78173
CHROMIUM COATED STEEL FOR CONTAINER APPLICATION 67-10 M12-78619
STUDY OF THE PHENOMENON OF LEVELING OF THE METAL SURFACE 67-10 M12-78858
CHROME-PLATED ZN DIE CASTINGS FOR THE U. S. AUTOMOTIVE INDUSTRY 67-10 M12-79885
SELF-ADJUSTING CHROMIUM ELECTROLYTE WITH LOW CORROSION ACTIVITY 67-10 M18-78540
CORROSION TESTING OF CHROMIUM AND MULTILAMINAR COATINGS IN DAIRY PRODUCTS 67-10 M18-78542
MICROCRACKED CHROMIUM PLATE IMPROVES CORROSION RESISTANCE 67-10 M18-78576
THE DEVELOPMENT AND TESTING OF A NEW CR PLATING PROCESS --GASINCHROMING-- USING GAS, FOR CONSTRUCTION PARTS AND SMALL CONNECTING ELEMENTS 67-11 M12-80101
PRODUCING GALVANIC COATINGS FROM A MN-CR ALLOY 67-11 M12-80458
RECENT DEVELOPMENTS IN DECORATIVE NICKEL/CHROMIUM-PLATING PROCESSES IN THE UNITED KINGDOM 67-11 M12-80635
NEW GALVANIC BRIGHT CHROME BATHS BASED ON TETRACHROMATE 67-11 M12-81075
THE FATIGUE STRENGTH OF CARBON STEELS, DIFFUSION CHROMIUM-PLATED UNDER VARIOUS CONDITIONS 67-11 M17-80589
SCIENCE FOR ELECTROPLATERS. PT. 117

CHROMIUM PLATING
67-11 M18-80668
SELF-REGULATING CHROMIUM PLATING SOLUTION
67-12 M12-81757
CHROMIUM COATED STEEL FOR CONTAINER APPLICATIONS
67-12 M12-82649
A SURVEY OF CHROMIUM DEPOSITION, FLUORIDE, FLUOBORATE, AND FLUOSILICATE BATHS
67-12 M12-82705
THERMODYNAMIC CHARACTERISTICS OF ELECTROLESS CHROMIUM PLATING 67-12 M12-83085
SCIENCE FOR ELECTROPLATERS. PT. 118. POROSITY
67-12 M18-82708

CHROMIUM STEELS
SEE ALSO AUSTENITIC STAINLESS STEELS
CHROMIUM MOLYBDENUM STEELS
CHROMIUM VANADIUM STEELS
FERRITIC STAINLESS STEELS
MARTENSITIC STAINLESS STEELS
NICKEL CHROMIUM MOLYBDENUM STEELS
NICKEL CHROMIUM STEELS
STAINLESS STEELS

CHROMIUM STEELS, ACOUSTIC PROPERTIES
STUDIES ON SOUND VELOCITY IN HARDENED CHROMIUM STEEL 67-08 M16-75694

CHROMIUM STEELS, ALLOYING
ALLOYING STEEL WITH TUNGSTEN IN THE LABLE USING BRIQUETS 67-07 M04-73775
EFFECT OF MICROALLOYING WITH RARE EARTH ON THE STABILITY OF THERMAL STRENGTHENING OF STEEL
67-07 M10-73789
ALLOYING STEEL WITH TUNGSTEN IN THE LADLE USING BRIQUETS 67-09 M04-76538
EFFECT OF MICROALLOYING WITH RARE METALS ON STABILITY OF THERMOMECHANICAL HARDENING OF STEEL
67-09 M04-76552

CHROMIUM STEELS, AUSTENITIZING
KINETICS OF GROWTH OF AUSTENITE GRAINS IN 30KHGT STEEL 67-04 M14-67448

CHROMIUM STEELS, CASTING
EFFECT OF CERIUM ON CERTAIN PROPERTIES OF PEARLITIC CAST STEEL 67-01 M06-57326
PROSPECTS FOR USING CAST CYLINDERS IN DRILLING HAMMERS 67-02 M06-59176
EFFECT OF OXIDATION OF LIQUID STEEL ON ITS CASTING PROPERTIES 67-02 M06-59177
BURN-IN IN INVESTMENT CASTINGS 67-02 M06-61234
CASTINGS IN HIGH CHROMIUM ALLOY KH30N2
67-04 M04-68089
THE DEVELOPMENT OF STEEL CASTING ALLOYS AS REFLECTED BY NEW STANDARDS 67-04 M06-66673
BURN-ON IN INVESTMENT MOLDS 67-04 M06-68095
HEATING THE FEEDER HEADS OF ALLOY STEEL INGOTS BY EXOTHERMIC SLEEVES 67-05 M04-69683
EXOTHERMIC SLEEVES FOR CONSERVING HEAT IN THE FEEDER HEADS OF ALLOY STEEL INGOTS
67-07 M04-74069
INFLUENCE OF CERIUM ON CERTAIN PROPERTIES OF CAST PEARLITIC STEEL 67-07 M06-73048
CENTRIFUGAL CASTING OF DRILL BITS
67-09 M06-77961
PROSPECTS FOR THE USE OF CAST CYLINDERS IN DRILLING HAMMERS 67-10 M06-78885
EFFECT OF MOLTEN STEEL OXIDATION ON ITS CASTING PROPERTIES 67-10 M06-78886
CASTING STEEL UNDER A LAYER OF MICA
67-11 M04-81412
CHANGE IN SOLIDIFICATION PARAMETERS OF STEEL INGOTS AND THEIR CONNECTION WITH CHEMICAL HETEROGENEITY
67-11 M14-81411

CHROMIUM STEELS, CASTINGS
WELDING UP CRACKS IN CASTINGS MADE OF A STEEL CONTAINING 13 PER CENT CHROMIUM
67-02 M11-61039

CHROMIUM STEELS, CAVITATION
INVESTIGATION OF THE RESISTANCE TO CAVITATION AND THE KINETICS OF CAVITATION BREAKDOWN OF METALLIC ALLOYS 67-02 M18-59896
EFFECT OF ALLOYING ELEMENTS ON THE CAVITATION RESISTANCE OF CHROMIUM-MANGANESE STEEL
67-02 M18-59953

CHROMIUM STEELS, CHEMICAL ANALYSIS
THE DETERMINATION OF HYDROGEN IN THE FREITAL SPECIAL STEEL WORKS 67-07 M19-74107
EFFECT OF THE GRAIN SIZE OF THE SAMPLE ON THE RESULTS OF THE SPECTRAL ANALYSIS OF STEELS
67-09 M19-78066
DETERMINATION OF OXYGEN IN CHROMIUM STEELS BY CHLORINATION AND VACUUM SUBLIMATION
67-10 M19-79774
CARBIDE SEGREGATION AND NONMETALLIC INCLUSIONS IN LOW-ALLOY STEELS 67-11 M19-81607
STUDY OF NONMETALLIC INCLUSIONS IN BALLBEARING STEELS 67-11 M19-81628

CHROMIUM STEELS, CLEANING
METHOD FOR CLEANING STAINLESS STEEL
67-02 M12-60950
RESIDUAL STRESSES AND WORK HARDENING DURING VIBRO-POLISHING 67-03 M12-65205

CHROMIUM STEELS, COATING
EFFECT OF SULFUR, PHOSPHORUS AND SILICON ON CRYSTALLIZATION CRACKING IN TYPE 30KH 10G10 BUILT-UP METAL 67-02 M11-60832
CLADDING STEEL WITH TITANIUM THROUGH A VANADIUM INTERLAYER 67-02 M12-61289
INFLUENCE OF SULPHUR, PHOSPHOROUS AND SILICON ON SOLIDIFICATION CRACKING IN TYPE 30KH10G10 WELD METAL 67-04 M11-67989
THE ELECTROPHORETIC DEPOSITION OF HEAT RESISTANT COATINGS 67-06 M12-70054
NEW PROCESS CREATES SUPERHARD PARTS
67-11 M12-81365

CHROMIUM STEELS, COOLING CURVES
STUDY OF C-CURVES 67-02 M14-60898
INVESTIGATION OF CHROMIUM STEELS AFTER CONTINUOUS COOLING AT VARIOUS RATES
67-02 M14-61990
INVESTIGATION OF CHROME STEELS AFTER CONTINUOUS COOLING AT DIFFERENT RATES 67-10 M14-78847

CHROMIUM STEELS, CORROSION
THE NON-SELECTIVE CORROSION OF ALLOY STEELS IN LIQUID LOW MELTING POINT METALS
67-02 M18-59894
CORROSION RESISTANCE OF SOME METALS IN SULFURIC-ALKALINE BYPRODUCTS OF OIL REFINING
67-02 M18-60996
THE DEPENDENCE OF THE CORROSION RESISTANCE OF KH18V10T STEEL PIPES ON THEIR CARBURIZATION
67-04 M18-66829
BRITTLE FRACTURE OF STEEL IN ACID MEDIUM
67-04 M18-67839
RESISTANCE OF ALLOYED STEELS TO CORROSION AND EROSION 67-05 M18-68388
ANISOTROPY OF THE CORROSION PROPERTIES OF ALLOY STEEL 67-05 M18-69051
BASIC PRINCIPLES FOR STRUCTURING CORROSION RESISTANT ALLOYS 67-05 M18-69821
CORROSION CRACKING OF HIGH-STRENGTH STEELS IN ACIDS
67-06 M18-70192
THE INTERGRANULAR CORROSION OF CHROMIUM STEELS IN CONCENTRATED NITRIC ACID 67-06 M18-70337
ATMOSPHERIC CORROSION TEST ALONG DOWN-STREAM OF THE TONE RIVER. PT. 1 67-08 M18-75804
CORROSIVE ACTIVITY OF AQUEOUS SOLUTIONS OF H2SO4
67-09 M18-76432
STRESS CORROSION DEVELOPED DURING THE CREEP OF A CRMOV STEEL AT 540 C. AND IN AIR
67-09 M18-76492
THE INFLUENCE OF SURFACE TREATMENTS ON THE CORROSION RESISTANCE OF CHROMIUM-CONTAINING STEELS 67-09 M18-77702
RESEARCH INTO THE BREAKDOWN OF STEEL BY CORROSION AND EROSION DURING THE FILTRATION OF COAL AND THE PRODUCTS OF BENEFICIATION 67-10 M18-78946
APPLICATION OF STEELS FOR DESALINATION PLANTS
67-11 M18-80292
BASIC PRINCIPLES IN THE CREATION OF CORROSION-RESISTANT METAL ALLOYS 67-12 M18-82255
EFFECT OF ELECTRICAL CURRENTS ON BALL BEARING DAMAGE IN VACUUM AND IN AIR 67-12 M18-82990
HEAT RESISTANT STEELS --WORKING-- IN DIRECT CONTACT WITH MOLTEN GLASS. PT. 2 67-12 M18-83461
LOW ALLOY STEELS RESISTANT TO NITRATES AND TO STRESSES 67-12 M18-83511

CHROMIUM STEELS, CRYSTAL LATTICES
ON THE INTERACTION BETWEEN DISLOCATION AND SOLUTE ATOM IN LOW-ALLOY HEAT-RESISTING STEELS
67-01 M17-58325

CHROMIUM STEELS, DIFFUSION
THE RATES OF DIFFUSION AND COAGULATION OF CARBIDES IN CHROMIUM STEELS EXPOSED TO ELEVATED TEMPERATURES FOR LONG PERIODS
67-12 M14-82154

CHROMIUM STEELS, DISPERSION HARDENING
DISPERSION HARDENING OF STEELS BY THE PRECIPITATION OF NITRIDE PHASES 67-04 M10-67384

CHROMIUM STEELS, EXTRUSION
BASIS OF DIFFERENTIATED EXTRUSION
67-02 M07-59402

SOME CHARACTERISTICS OF BILATERAL HOT EXTRUSION
67-02 M08-60676
N36KHT STEEL TUBE MANUFACTURE 67-04 M07-67828
HOT BACKWARD EXTRUSION OF SLEEVES WITH A THIN BOTTOM BY CYLINDRICAL AND TAPERED PUNCHES
67-07 M08-73950

CHROMIUM STEELS, FORGINGS
THE PROBLEM OF COOLING --ANNEALING-- FORGINGS OF STEELS WHICH ARE SUSCEPTIBLE TO HYDROGEN EMBRITTLEMENT 67-02 M10-61754

CHROMIUM STEELS, GRINDING
INVESTIGATION OF THE GRINDING PROCESS OF SINTERED STEEL 67-06 M09-72329

CHROMIUM STEELS, HARD SURFACING
EFFECT OF TECHNOLOGICAL FACTORS OF VIBROARC BUILDUP ON PHASE COMPOSITION OF 30KH10G10 STEEL
67-02 M11-62163
THE EFFECTS OF VIBROARC METAL DEPOSITION ON THE PHASE COMPOSITION OF GRADE 30KH10G10 STEEL
67-04 M11-67178

CHROMIUM STEELS, HARDENABILITY
STRENGTHENING OF STRUCTURAL STEELS WITH ADDITIONS OF NITROGEN, VANADIUM AND ALUMINUM
67-02 M17-61973
INFLUENCE OF RARE EARTH METALS ON HARDENABILITY OF STEEL 67-08 M17-75886

CHROMIUM STEELS, HARDENING
CHANGE IN THE MICROHARDNESS DURING THE STRENGTHENING OF METALS AND ALLOYS BY NUCLEAR IRRADIATION 67-02 M17-60897

CHROMIUM STEELS, HEAT TREATMENT
HEAT TREATING THE SUPER 12 PER CENT CR STEELS
67-01 M10-57438
DECREASE IN THE TIME OF THE CARBONITRIDING PROCESS
67-01 M10-58035
GAS BORATING OF HIGH-ALLOY STEELS
67-01 M10-58082
SURFACE ATTACK IN CR-FE ALLOYS 67-02 M10-59017
HEAT TREATMENT OF 5 PER CENT CHROMIUM STEEL DIE CASTING DIES 67-02 M10-59095
ON THE CONCENTRATING PROCESS OF THE ALLOYING ELEMENT INTO CEMENTITE DURING THE TEMPERING OF STEEL 67-02 M10-59123
THE TEMPERING CONDITIONS OF 1.0 PER CENT NICKEL-DOPED STEEL 67-02 M10-59649
QUENCH HEATING OF STRUCTURAL STEELS IN MOLTEN NACL AND KCL SALTS 67-02 M10-60851
PROPERTIES OF LOW-CARBON MARTENSITE. DISCUSSION OF RESULTS 67-02 M17-61698
CARBURIZATION OF CHROMIUM STEELS IN METHANE
67-04 M10-66002
WARPAGE OF THIN WALLED PARTS DURING RELAXATION OF RESIDUAL STRESSES 67-04 M10-66358
ISOTHERMAL QUENCHING OF BAND SAW LINKS
67-04 M10-66370
IMPROVED NITRIDING PROCESS PROLONGS GEAR LIFE
67-04 M10-68172
INFLUENCE OF ULTRASOUND ON STRESS RELIEF OF CR-W-MN STEEL DURING TEMPERING 67-06 M10-70056
STABILITY OF SUPERCOOLED AUSTENITE IN CSN 17021 STEEL ON WELDING SEAMS PREHEATED AND SUBSEQUENTLY ANNEALED 67-06 M10-70358
SOME OBSERVATIONS ON THE MARSTRAINING OF A 12 PER CENT CHROMIUM STEEL 67-06 M10-70879
SELECTING EQUIPMENT FOR STRUCTURAL ANNEALING OF BALL BEARING STEEL 67-06 M10-71261
HEAT TREATMENT OF WELD JOINTS OF STEAM LINES FROM 12KH1MF AND 15KH1M1F STEEL 67-06 M10-71398
PRODUCTION OF GRADED BALL-BEARING STEEL WITHOUT RECRYSTALLIZATION ANNEALING 67-07 M08-74084
FACTORS AFFECTING THE PROPERTIES OF CAST 13 PER CENT CR STEELS 67-07 M17-72755
SELECTION OF EQUIPMENT FOR STRUCTURAL ANNEALING OF BALL-BEARING STEEL 67-08 M10-75730
X-RAY INVESTIGATION OF SURFACE LAYERS OF 9KH STEEL STRENGTHED
STRENGTHENED BY THERMOMECHANICAL SURFACE TREATMENT 67-08 M10-76025
HEATING OF STRUCTURAL STEELS TO QUENCHING TEMPERATURE IN MOLTEN NACL AND KCL
67-08 M10-76109
INFLUENCE OF ULTRASONIC VIBRATIONS ON THE RELIEF OR RESIDUAL STRESSES DURING TEMPERING OF KHVG STEEL 67-10 M10-78802
SOME SPECIFIC DATA ON THE USE OF AISI 52100 STEEL FOR TOOLING APPLICATIONS 67-10 M10-79519
ISOTHERMAL ANNEALING OF SAW CHAINS
67-11 M10-80972

CHROMIUM STEELS, HEATING
COMMERCIAL TESTING OF AN AUTOMATED FURNACE FOR NONSCALE HEATING OF METAL 67-04 M10-67622
USING MOLTEN GLASS TO HEAT STEEL BILLETS
67-07 M10-73955

CHROMIUM STEELS, MACHINABILITY
MACHINABILITY OF STEEL WITH ADDITIONS OF SELENIUM AND LEAD 67-02 M08-61300

CHROMIUM STEELS, MACHINING
EFFECT OF COOLING LIQUID ON THE FRICTION PROCESS AND TOOL WEAR 67-03 M17-65207
MACHINABILITY OF A FERRITIC CHROMIUM STEEL PRODUCED BY DIFFERENT FURNACE PRACTICES
67-07 M08-72680
QUALITY OF THE SURFACE LAYER WHEN GRINDING WITH A DIAMOND WHEEL WITH A BAKELITE BINDER
67-07 M08-74287
STATE OF THE SURFACE LAYER OF QUENCHED SHKH15 STEEL AFTER TURNING 67-07 M08-74288
THE AGIETRON SPARK EROSION MACHINE FOR TURBINE WHEELS 67-10 M08-78791

CHROMIUM STEELS, MECHANICAL PROPERTIES
TENSILE STRENGTH AND WEAR RESISTANCE OF STEEL IN RELATION TO QUENCHING TEMPERATURE
67-01 M17-57191
THE MECHANISM OF ROLLING FRICTION BETWEEN TWO STEEL BALLS IN THE CASE OF LOW LOADS
67-01 M17-57206
RADIOGRAPHICALLY DETERMINED RESIDUAL STRESSES IN STEEL SPECIMENS SUBJECT TO PLASTIC DEFORMATION IN TENSION 67-01 M17-57384
INVESTIGATION OF THE BRITTLENESS OF TWO HEAT RESISTANT CHROMIUM STEELS DURING CREEP
67-01 M17-58174
INFLUENCE OF STRUCTURE ON FATIGUE PROPERTIES OF STEEL 67-01 M17-58372
THE EFFECT OF CALCIUM, SILICON, MANGANESE AND CHROMIUM ON THE MECHANICAL PROPERTIES OF FLASH BUTT WELDS 67-02 M17-59110
THE CAVITATION BREAKDOWN OF STEELS MADE IN AN ELECTRIC ARC FURNACE 67-02 M17-59552
EFFECT OF TEMPERING CONDITIONS ON THE MECHANICAL PROPERTIES OF EI802 STEEL 67-02 M17-59634
EFFECT OF NIOBIUM ON CRACK INITIATION IN 2KH13L STEEL 67-02 M17-59650
ROLE OF OXYGEN IN THE ADSORPTIVE DECREASE IN STRENGTH OF STEEL SPECIMENS IN CONTACT WITH A MELT 67-02 M17-59657
FAILURE OF MATERIAL UNDER PULSATING CONTACT LOAD
67-02 M17-59707
FISH EYE APPEARING ON THE FATIGUE FRACTURED SURFACE OF BALL BEARING STEEL 67-02 M17-59710
INFLUENCE OF HEAT TREATMENT ON LIFE OF SHKH15 CR MARKERS 67-02 M17-59775
RESIDUAL DEFORMATION STRESSES IN IRON MATERIALS
67-02 M17-59917
THE USE OF IMPACT TORSION TESTING IN THE TESTING OF SURFACE-TREATED MATERIALS 67-02 M17-60024
INVESTIGATION OF CASE HARDENING OF GEARS
67-02 M17-60843
PROPERTIES OF WELD METAL AND HEAT AFFECTED ZONE IN ELECTROSLAG WELDING OF 15KH2MF STEEL
67-02 M17-61270
PROPERTIES OF 2KH13L STEEL IN MARTENSITIC STATE
67-02 M17-61991
CORROSION FATIGUE OF STEEL DURING CYCLIC BENDING AND TORSION 67-02 M18-60967
INFLUENCE OF THE LENGTH OF SPECIMEN ON CORROSION FATIGUE RESISTANCE AT ALTERNATIVE LOADING
67-02 M18-60968
DETERMINING RELAXATION RESISTANCE OF METALS FROM CREEP TEST RESULTS 67-03 M17-65070
THE MECHANISM OF THE INFLUENCE OF RARE-EARTH METALS ON THE PROPERTIES OF STRUCTURAL STEEL
67-03 M17-65970
FRACTURE OF STEEL BILLETS DUE TO THERMAL STRESSES
67-04 M17-66099
INFLUENCE OF IMPURITIES ON ANISOTROPY OF MECHANICAL PROPERTIES IN STEELS 67-04 M17-66356
THE BASIC VARIETIES OF FAILURE IN MACHINE GEARS
67-04 M17-66631
EFFECT OF THE HARDNESS AND STRUCTURE OF STEEL ON RESISTANCE TO HYDRAULIC ABRASION AND CAVITATION
67-04 M17-67049
FATIGUE STRENGTH OF SOME HEAT TREATED ALLOY STEELS
67-04 M17-67153
EVALUATION OF THE BEHAVIOR OF STEELS AND ALLOYS DURING HOT DEFORMATION WITH THE AID OF HOT TORSION SPECIMENS 67-04 M17-67202
X-RAY INVESTIGATION OF 20KH ALLOY STEEL SUBJECTED

TO LOAD CYCLING AT ROOM AND LOW TEMPERATURES 67-04 M17-67233
METHOD FOR WORKING STEEL 67-04 M17-67443
THE RELATIONSHIP BETWEEN MECHANICAL PROPERTIES AND THE MICROSTRUCTURE OF CR STEELS WITH 0.6-1 PER CENT C 67-04 M17-67711
INCREASE OF THE WEAR RESISTANCE OF MACHINE PARTS OPERATED IN HYDROABRASIVES MEDIA 67-04 M17-67964
STUDY OF THE PROPERTIES OF COMPLEX BILLETS ROLLED ON THREE-HIGH MILLS FOR CROSS-HELICAL ROLLING OF ROUND SHAPES 67-05 M07-69690
TECHNIQUES OF DETERMINING AXIAL RESIDUAL STRESSES IN METAL SURFACE LAYERS 67-05 M13-68451
SURFACE AUSFORMING --ON 40KH STEEL-- 67-05 M17-68202
WELD METAL AND HEAT AFFECTED ZONE PROPERTIES OF ELECTROSLAG WELDS IN 15KH2MF STEEL 67-05 M17-68270
HEAT RESISTANCE OF CHROMIUM STEELS SUBJECTED TO PROLONGED TESTS 67-05 M17-68355
STRENGTHENING OF CR-MN-MO STEEL BY COLD PLASTIC DEFORMATION 67-05 M17-68380
THE EFFECT OF ELASTIC ANISOTROPY ON THE X-RAY STRESS MEASUREMENT IN STEEL SPECIMENS 67-05 M17-68527
OBTAINING HIGH-TEMPERATURE IMPACT FRACTURES FOR ELECTRON MICROFRACTOGRAPHY 67-05 M17-69049
COMPARISON OF TWO METHODS OF EVALUATING STRESS RELAXATION IN STEEL 67-05 M17-69332
EFFECT OF CYCLICAL THERMOMAGNETIC TREATMENT IN THE CURIE POINT REGION ON THE PLASTIC PROPERTIES OF IRON AND STEEL 67-05 M17-69660
CYCLING STRENGTH AND WEAR RESISTANCE OF 40KHN STEEL AFTER QUENCH WITH TEMPER AND AFTER ISOTHERMAL TREATMENT 67-05 M17-69699
THE FEASIBILITY OF LOWERING THE FLAKING SUSCEPTIBILITY OF STEEL BY ADDING SMALL AMOUNTS OF PALLADIUM 67-06 M17-69977
REDUCED SERVICE LIFE OF STRUCTURAL BOILER PARTS WHEN PERMISSIBLE OPERATING TEMPERATURES ARE EXCEEDED 67-06 M17-70083
EFFECTS OF COLD PLASTIC DEFORMATION ON THE HARDENABILITY OF STEEL 67-06 M17-70094
THE CONTACT ENDURANCE OF BALL BEARING STEEL 67-06 M17-70095
DUCTILITY CRITERION FOR NICKEL AND CHROMIUM STEELS AND ALLOYS 67-06 M17-70102
EFFECT OF HIGH-TEMPERATURE THERMOMECHANICAL WORKING ON THE CYCLIC BEHAVIOR OF HIGH-CARBON STEELS 67-06 M17-70109
EFFECTS OF ADDING VANADIUM, NITROGEN AND ALUMINUM TO QUENCHED AND TEMPERED CHROMIUM AND MANGANESE STRUCTURAL STEELS ON THEIR PROPERTIES 67-06 M17-70119
NEW STEEL FOR HEAT RESISTANT CASTINGS 67-06 M17-70333
HOT WORKING PROPERTIES OF CONTINUOUSLY CAST STEELS 67-06 M17-72022
INFLUENCE OF THE WORK IN FATIGUE CONDITIONS ON COLD SHORTNESS OF STEEL 67-06 M17-72309
TESTING THE MECHANICAL PROPERTIES OF HARDENED STEELS BY THE STATIC BENDING TEST 67-07 M17-72478
ESTIMATE OF THE RELAXATION RESISTANCE OF METALS FROM THE RESULTS OF CREEP TESTS 67-07 M17-72970
THE MECHANISM OF THE INFLUENCE OF RARE-EARTH METAL ADDITIONS ON THE PROPERTIES OF CONSTRUCTIONAL STEELS 67-07 M17-72974
THE STRESS-RELAXATION PROPERTIES OF TAF STEEL 67-07 M17-72977
FATIGUE STRENGTH AND WEAR RESISTANCE OF 40 KHN STEEL AFTER TEMPER HARDENING AND ISOTHERMAL TREATMENT 67-07 M17-74085
INFLUENCE OF PHOSPHORUS ON PROPERTIES OF 45KH10G14YU2 STEEL 67-07 M17-74192
THE ROLLING FATIGUE PROPERTIES OF CASE-HARDENING ALLOY STEELS WITH OR WITHOUT LEAD ADDITION 67-08 M17-75753
THE DELETERIOUS EFFECT OF SMALL QUANTITIES OF ALUMINUM ON THE STRESS-RUPTURE PROPERTIES OF A CR-MO-V STEEL 67-08 M17-75971
RESISTANCE OF CASE-HARDENED STEEL TO CONTACT FATIGUE 67-08 M17-76001
INFLUENCE OF TREATMENT WITH ROLLERS ON THE MECHANICAL AND TECHNOLOGICAL PROPERTIES OF CASE-HARDENED STEELS 67-08 M17-76002
SENSITIVITY OF SHKH15 STEEL TO STRESS CONCENTRATIONS AFTER DIFFERENT HEAT TREATMENTS 67-08 M17-76006
SURFACE LAYERS AND WEAR RESISTANCE OF SHKH15 STEEL TO ROLLING FRICTION 67-08 M17-76007
INFLUENCE OF THE STRUCTURE ON THE RESISTANCE OF METAL TO WEAR BY ABRASION 67-08 M17-76008
BRITTLENESS OF CR-MO-V STEEL RESULTING FROM TEMPERING 67-08 M17-76013
STABILITY OF THE STRUCTURE AND PROPERTIES OF 12KH1M1F STEEL PIPES 67-08 M17-76016
INFLUENCE OF TEMPERING ON THE MECHANICAL PROPERTIES AND THE FINE STRUCTURE OF QUENCHED AND DEFORMED STEELS 67-08 M17-76026
INVESTIGATION OF STEELS SUSCEPTIBLE TO SECONDARY HARDENING AND HARDENING BY THERMOMECHANICAL TREATMENT 67-08 M17-76027
CHEMICOTHERMAL TREATMENT OF GEARS 67-08 M17-76101
INCREASE OF SURFACE HARDNESS OF QUENCHED ALLOYED STEEL BY COLD WORKING AND TEMPERING AT 200 C 67-08 M17-76130
INFLUENCE OF HEAT TREATMENT ON THE STRENGTH OF SHKH15 STEEL STAMPS 67-08 M17-76132
EFFECT OF SPECIMEN LOADING WHEN TESTING STEELS FOR SUSCEPTIBILITY TO COLD CRACKING DURING WELDING 67-09 M17-77604
INFLUENCE OF CERTAIN ALLOYING ELEMENTS ON THE HARDENABILITY OF AFNOR Z6C13 STEEL 67-10 M17-78677
TOUGHENING OF IMPROVED STRUCTURAL STEELS WITH SMALL AMOUNTS OF NITROGEN, VANADIUM, AND ALUMINUM 67-10 M17-78830
PROPERTIES OF 2KH13L STEEL WITH A MARTENSITE STRUCTURE 67-10 M17-78848
THE EFFECTS OF TIN ON THE TRANSITION TEMPERATURE OF 30KHGSA STRUCTURAL STEEL 67-10 M17-78935
RELAXATION STABILITY OF 30KHGSA STEEL 67-10 M17-79325
RATIO OF THE CRACK FORMATION AND PROPAGATION ENERGIES DURING IMPACT TESTS 67-10 M17-79742
INFLUENCE OF NIOBIUM, TITANIUM, AND BORON ON HIGH-TEMPERATURE PROPERTIES OF 12 PER CENT CR-2 PER CENT W-V STEEL 67-10 M17-79772
12 PER CENT CR STEELS--CREEP-RESISTING AND HIGH-STRENGTH VARIANTS 67-11 M17-80273
PROPERTIES OF A NEW 2 PER CENT CR-MO-V-AL NITRIDING CREEP-RESISTING STEEL - HK 5 67-11 M17-80274
DEPENDENCE OF THE ANISOTROPY OF THE MECHANICAL PROPERTIES OF STEEL ON THE DEGREE OF CONTAMINATION WITH NONMETALLIC INCLUSIONS 67-11 M17-80958
TEMPER BRITTLENESS OF CAST STEEL 67-11 M17-80963
HARDNESS OF STRAINED METAL 67-11 M17-81160
COMPARATIVE WEARING CAPACITY OF CERTAIN METALS IN TOP GAS FLOWS 67-11 M17-81302
EFFECTS ON THE COLD-BRITTLENESS OF STEEL OF WORKING UNDER CONDITIONS OF FATIGUE 67-11 M17-81581
STUDY OF THE ABRASIVE WEAR OF MATERIALS UNDER ACTUAL CONDITIONS OF BLAST FURNACE OPERATION 67-12 M17-81728
THE ENERGY CHARACTERISTICS OF IMPEDED FRACTURE OF HARDENED STEEL 67-12 M17-82125

CHROMIUM STEELS, MELTING
STUDY OF TUBULAR BILLETS MADE OF 38KHA STEEL 67-02 M04-59851
TEMPERATURE CONDITIONS OF THE POOL OF HIGH-CAPACITY ARC STEELMAKING FURNACES 67-05 M04-68324
REGULARITIES IN ELIMINATION OF NONMETALLIC INCLUSIONS DURING VACUUM ARC MELTING 67-05 M04-69605
BATH TEMPERATURES IN LARGE ELECTRIC ARC STEELMAKING FURNACES 67-07 M04-72852
INFLUENCE OF SLAG ON THE THERMAL PROCESSES IN AN ELECTRIC FURNACE 67-07 M04-73781
EXPERIENCE OF A NEW TECHNOLOGY FOR REMELTING BALL-BEARING STEEL 67-07 M04-74140
STREAM DEGASSING AS A METHOD TO IMPROVE QUALITY AND INCREASE PRODUCTION IN THE MELTING OF SPECIAL STEELS 67-08 M04-74352
DEOXIDATION AND REMOVAL OF IMPURITIES IN VARIOUS SIZES OF ARC FURNACES 67-08 M04-75721
EFFECTS OF SLAG ON THERMAL PROCESSES IN ELECTRIC FURNACES 67-09 M04-76544
EFFECTS OF RARE EARTH METALS ON THE QUALITY OF STRUCTURAL STEEL 67-10 M17-78375
THE QUESTION OF THE CHANGES OF THE SOLUTION AND TRANSFORMATION BEHAVIOR OF ROLLER BEARING STEEL, 100 CR 6, AFTER REMELTING WITH THE ESU PROCESS

WITH CONSIDERATION FOR THE FABRICATION OF SCIENTIFIC APPARATUS 67-11 M14-80215
INFLUENCE OF THE MELTING PROCESS ON THE NOTCH TOUGHNESS OF 100 CR 6 STEEL 67-11 M17-80217
EFFECT OF CHEMICAL COMPOSITION OF THE METAL AND THE SMELTING AND TEEMING TECHNOLOGY ON THE QUALITY OF TITANIUM STRUCTURAL STEELS 67-12 M04-83468

CHROMIUM STEELS, METAL WORKING
ROLLING TWO-LAYER INGOTS OF L53-KH6F1 STEELS ON A BLOOMING MILL 67-02 M07-58877
WELDING OF FLAKE DEFECTS DURING SECONDARY FORGING 67-02 M07-60674
PRESSURE OF METAL ON ROLLERS WHEN ROLLING BY OVAL-SQUARE AND OVAL-EDGE OVAL SYSTEM 67-02 M07-61212

CHROMIUM STEELS, METALLOGRAPHY
SURFACE PHENOMENA OBSERVED WHILE STUDYING THE METALLOGRAPHIC STRUCTURE OF ALLOY STEELS AT HIGH TEMPERATURES 67-04 M14-67878
THE CONNECTION BETWEEN THE SURFACE MORPHOLOGY OF SPECIMENS OF CHROMIUM STEELS SUBJECTED TO THERMAL ETCHING AND THEIR DISLOCATION STRUCTURE 67-06 M13-70342

CHROMIUM STEELS, MICROSTRUCTURE
DIAGRAM SHOWING PHASE RELATIONS OF THE OXIDE INCLUSIONS FORMED IN STEELS OF THE FE-CR-O SYSTEM 67-02 M13-60623
DENDRITE STRUCTURE AND GRAIN SIZE OF UNDER COOLED MELTS 67-03 M14-65078
INVESTIGATION OF THE STRUCTURE OF THE CASE HARDENED LAYER OF 20KHGVT AND 20KHGSVT NICKEL-LESS STEELS 67-04 M13-66625
CHEMICAL THINNING TECHNIQUE FOR THE PREPARATION OF THIN FOILS FROM BULK SAMPLES OF FERROUS MATERIALS 67-04 M13-67026
SOLIDIFICATION AND MICROSEGREGATION IN KILLED STEEL INGOTS WITH PARTICULAR REFERENCE TO 1 PER CENT C, 1 1/2 PER CENT CR STEEL 67-04 M14-67025
ROLE OF THE INITIAL STRUCTURE IN THE ELECTRON BEAM HEATING OF STEEL 67-07 M14-72671
CARBIDE NETWORKS ON ROLLER BEARING STEEL AND MEASURES FOR COMBATING THEM 67-07 M14-74147
INVESTIGATION OF THE STRUCTURE OF THE FRACTURE AND THE TEMPERATURE THRESHOLD OF COLD BRITTLENESS IN FERRITE-PEARLITE CLASS STEELS BY THE FRACTOGRAPHY METHOD 67-07 M17-72868
USE OF SELECTIVE ETCHING AND RADIOACTIVE PHOSPHORUS TO STUDY THE DISTRIBUTION OF PHOSPHORUS IN STEEL 67-09 M13-78157
EXAMINATION OF NONMETALLIC INCLUSIONS IN 38KHMYUA STEEL 67-10 M13-80036
MICROMETALLURGY OF AUSTENITIC GRAIN SIZE CONTROL OF STEELS. PT. 1. EFFECT OF ALUMINUM ON PHYSICAL PROPERTIES 67-11 M13-80418
STUDIES ON THE NATURE AND ORIGIN OF NONMETALLIC INCLUSIONS IN BEARING STEELS 67-11 M13-80419
REASONS FOR FORMATION OF BRIGHT AND DULL BANDS ON OUTER SURFACE OF SHKH15 STEEL BALL BEARING RINGS AFTER COLD PICKLING 67-12 M13-81844
MICROSTRUCTURES AND NITRIDES OF FE-CR-N TERNARY SYSTEM 67-12 M13-82825
FRACTOGRAPHIC INVESTIGATION OF THE STRUCTURE AND TEMPERATURE THRESHOLD OF COLD BRITTLENESS IN FERRITE-PEARLITE STEELS 67-12 M17-82176

CHROMIUM STEELS, NONDESTRUCTIVE TESTING
METHOD OF ELECTRIC INDUCTION INSPECTION OF THE DEPTH OF SURFACE HARDENING IN GEAR TEETH 67-02 M19-59554
NONDESTRUCTIVE TESTING OF CARBURIZATION DEPTH 67-03 M19-65734

CHROMIUM STEELS, OXIDATION
A STUDY OF SURFACE OXIDATION OF IRON-CHROMIUM MELTS 67-10 M18-79716
THE EFFECT OF LI ON THE HIGH TEMPERATURE OXIDATION OF FE-25 CR ALLOY 67-10 M18-80010
THE NATURE OF THE HEAT PROOF PROPERTIES OF CHROMIUM-MANGANESE STEEL 67-12 M18-83033

CHROMIUM STEELS, PHASE TRANSFORMATIONS
MICROSTRUCTURAL TRANSFORMATIONS DURING TEMPERING OF COMPLEX ALLOY STEELS WITH 12 PER CENT CR ARE STUDIED BY AN ELECTRON MICROSCOPE 67-01 M14-58173
STUDY OF THE ISOTHERMAL TRANSFORMATIONS IN 17 PER CENT CR STAINLESS STEELS. PT. 3. INFLUENCE OF ALLOYING ELEMENTS OTHER THAN CARBON AND NITROGEN 67-02 M14-61124
THE PHASE TRANSITION DUE TO SHOCK COMPRESSION IN IRON 67-05 M14-68843
KINETICS OF THE DECOMPOSITION OF AUSTENITE AND FORMATION OF MICROSTRUCTURE OF STEEL IN THE BAINITE REGION 67-06 M14-72377
STUDY OF THE KINETICS OF THE ISOTHERMAL TRANSFORMATION OF AUSTENITE IN 20KHGNR STEEL 67-08 M14-74341
CONTRIBUTION TO THE DECOMPOSITION OF RETAINED AUSTENITE IN HIGH-CR STEELS 67-12 M14-82558
REDUCTION IN THE MARTENSITE GRAIN SIZE IN AN FE-NI-CR ALLOY AFTER REAUSTENITIZATION 67-12 M14-83440

CHROMIUM STEELS, PHASES /STATE OF MATTER/
TEXTURE STUDY OF THE ALPHA-TO-GAMMA TRANSFORMATION 67-05 M14-68249

CHROMIUM STEELS, POWDER METALLURGY
CERMET PARTS OF VANE DOUBLE-ACTING MODEL G12-2 PUMP 67-06 M09-71469
INVESTIGATION OF SHRINKAGE IN SINTERED CHROMIUM STEEL 67-06 M09-72322
SINTERED STRUCTURAL MATERIALS 67-07 M09-72505
TECHNIQUES FOR THE PRODUCTION OF CHROMIUM STEEL AND NICHROME, HARDENED BY FINE REFRACTORY OXIDES 67-08 M09-75461
COMBINED PROCESS FOR THE REDUCTION OF IRON SCALE IN CONTINUOUS VERTICAL MUFFLE FURNACES 67-11 M09-80887
SINTERED CONSTRUCTIONAL MATERIALS 67-11 M09-80891
SINTERED COMPONENTS OF G12-2 DOUBLE-ACTING VANE PUMPS 67-12 M09-82790

CHROMIUM STEELS, QUALITY CONTROL
INSPECTION OF THE HARDNESS OF RODS IN AN EMID-3 APPARATUS 67-05 M19-68448

CHROMIUM STEELS, REACTIONS /CHEMICAL/
OXIDE INCLUSIONS FORMED IN THE STEELS OF FE-CR-O SYSTEM 67-01 M04-58597
EFFICIENT DEOXIDIZING AND ALLOYING CHROME STEEL 67-06 M04-70903

CHROMIUM STEELS, REFINING
PARTICIPATION OF CHROMIUM IN THE DEOXIDATION OF STEEL 67-02 M04-62254
KINETICS OF THE DEGASIFICATION OF MOLTEN STEEL IN A VACUUM 67-04 M04-67868
CHEMICAL HETEROGENEITY AND NONMETALLIC IMPURITIES IN STEEL INGOTS WITH RARE-EARTH METALS 67-05 M04-69506
A DECADE OF VACUUM DEGASSING AT U. S. STEEL. PT. 2 67-05 M06-69551
TREATMENT OF MOLTEN ELECTRIC STEEL UNDER VACUUM AND WITH INERT GAS OUTSIDE THE FURNACE 67-08 M04-75722
HYDRODYNAMIC FACTORS AND KINETICS OF THE DECARBURIZATION OF COMPLEX MELTS 67-09 M04-77854
VACUUMING STEEL OUTSIDE THE FURNACE 67-10 M04-79822
DEGASSING SHKH15 STEEL 67-11 M04-81010
DISTRUBUTION OF NONMETALLIC INCLUSIONS IN AN INGOT OF VACUUM ARC REMELTED BALL BEARING STEEL 67-11 M04-81414

CHROMIUM STEELS, ROLLING
EFFECT OF ROLLING PLAN ON QUALITY OF HEAVY-GAGE STEEL AND MILL PRODUCTIVITY 67-02 M07-61947
EFFECT OF ROLLING SCHEDULE ON QUALITY OF THICK PLATE STEEL AND MILL OUTPUT 67-04 M07-67778
PRODUCTION OF HIGH STRENGTH CHROMIUM R-65 RAILS 67-06 M07-71255
COLD ROLLING RECTANGULAR PROFILES FOR PISTON RINGS FROM HARD-TO-WORK STEEL 67-07 M07-73785
PRODUCING HIGH STRENGTH R-65 CHROMIUM STEEL RAILS 67-08 M07-75724
COLD-ROLLING RECTANGULAR SECTIONS FOR PISTON RINGS FROM STEEL HARD TO DEFORM 67-09 M07-76548
HOT ROLLING OF CHROMIUM 2H17 STEEL WITH HEAVY REDUCTIONS 67-10 M07-79865
POSSIBILITIES OF IMPROVING THE PRODUCTIVITY OF COLD ROLLING TUBE MILLS 67-12 M07-81874

CHROMIUM STEELS, ROLLS
SOME CONSIDERATION ON THE PREMATURE FAILURE OF FULLY HARDENED ROLL 67-08 M17-75771
WEAR RESISTANCE OF PREHEATED STEEL AFTER REPEATED HEAT TREATMENT 67-12 M17-81718

CHROMIUM STEELS, SPRINGS /ELASTIC/
METHOD OF INCREASING THE ENDURANCE OF COMPRESSION SPRINGS 67-10 M17-78822

CHROMIUM STEELS, STEEL MAKING
IMPROVED QUALITY 30KHGSNASH STEEL PRODUCED BY ELECTRIC SLAG REMELTING 67-02 M04-59869
MAKING TUNGSTEN-BEARING STEEL FOR THE PRODUCTION OF HIGH-STRENGTH TUBES 67-02 M04-61956

CHROMIUM STEELS

STEEL CONTAINING TUNGSTEN MELTED FOR HIGH-TENSILE TUBES 67-04 M04-67774
CHROMIUM STEELS, SURFACE FINISHING
SUPERFINISHING PIECES MADE FROM ALLOY STEELS 67-01 M12-57333
CHROMIUM STEELS, SURFACE HARDENING
HIGH-TEMPERATURE SURFACE AUSROLLING --ON AN EXAMPLE OF 9KH STEEL-- 67-01 M10-57633
CHROMIUM STEELS, SURFACE PROPERTIES
EFFECT OF RARE-EARTH METALS ON THE CRYSTALLIZATION OF STEEL 67-02 M15-59179
INTERFACIAL TENSION OF LIQUID STEEL ON THE BOUNDARY WITH WHITE SLAG IN ELECTROMELTING 67-04 M04-66080
HYDROEROSION RESISTANCE OF AUSTENITIC CR-MN STEELS ALLOYED WITH NITROGEN AND SOME OTHER ELEMENTS 67-05 M17-69017
FLAKE PREVENTIVE TREATMENT OF CONTINUOUS CAST SHEET BILLETS OF CHROMIUM STEELS 67-06 M04-71248
ANTI-FLAKE TREATMENT OF CONTINUOUSLY CAST CHROMIUM-NICKEL STEEL SLABS 67-08 M04-75717
INFLUENCE OF RARE-EARTH METALS ON THE CRYSTALLIZATION OF STEEL 67-10 M15-78888
CUTTING BURRS AND METHODS OF MEASUREMENT 67-10 M19-79491
CHROMIUM STEELS, THERMAL PROPERTIES
THE DETERMINATION OF RESIDUAL AUSTENITE BY DIFFERENTIAL THERMAL ANALYSIS --DTA-- 67-04 M13-67209
CHROMIUM STEELS, THERMAL STABILITY
MODERN MATERIALS FOR GAS TURBINE BLADES AND DISKS 67-05 M17-68369
CHROMIUM STEELS, TUBING /METAL/
TESTING TUBING FOR A PLASTICS PROCESS 67-04 M19-68153
CHROMIUM STEELS, WELDING
TECHNIQUES APPLIED IN JOINING PIPES FOR PETROLEUM INDUSTRY 67-01 M11-58349
FLASH WELDING OF CONNECTING ENDS TO DRILL TUBES 67-02 M11-60009
PREPARING THE METAL SURFACE FOR SEMIAUTOMATIC SUBMERGED ARC WELDING OF FILLET WELDS 67-04 M11-67812
SURFACE PREPARATION OF METAL FOR THE SEMI-AUTOMATIC SUBMERGED ARC WELDING OF CORNER JOINTS 67-06 M11-70312
THE ADDITION OF FERROALLOYS TO THE ELECTROSLAG BUILDUP WELDING OF TURASS ANGLES 67-06 M11-70461
AUTOMATIC WELDING OF OKH13 STEEL IN CO2 67-06 M11-71850
WELDING IN MODERN GAS TURBINE ENGINE MANUFACTURE 67-10 M11-78796
THE PRODUCTION OF WELDED PARTS FOR MACHINE CONSTRUCTION 67-10 M11-79489
HIGH-TEMPERATURE PROPERTIES OF STEAMPIPE WELDS 67-11 M11-80279
CHOOSING BUILT-UP METAL WHICH IS RESISTANT TO SHOCK-LOADING 67-11 M11-80553
WELDING EI993 STEEL STEAM SUPERHEATER PIPES 67-11 M11-80648
WELDING RING SEAMS IN SMALL-DIAMETER PIECES IN 38KHS STEEL BY AUTOMATIC SUBMERGED ARC OR IN CO2 67-12 M11-81916
CHROMIUM STEELS, X RAY ANALYSIS
EVALUATION OF VARIOUS TECHNIQUES OF X-RAY STRESS MEASUREMENT WITH DIFFRACTOMETER 67-05 M17-68525
CHROMIUM VANADIUM STEELS, CORROSION
HYDROGENATION OF STEEL IN SULFIDE AND ALKALINE ELECTROLYTES 67-05 M18-69828
CHROMIUM VANADIUM STEELS, HEAT TREATMENT
THE PROPERTIES OF LOW-CARBON MARTENSITE TEST METHODS AND STEELS UTILIZED 67-02 M17-61696
THE PROPERTIES OF LOW-CARBON MARTENSITE. RESULTS 67-02 M17-61697
CHROMIUM VANADIUM STEELS, MECHANICAL PROPERTIES
MECHANICAL AND ELECTRON-MICROSCOPE INVESTIGATION OF TEMPERING PROCESSES IN V-CONTAINING AND V-FREE HARDENABLE STRUCTURAL STEELS 67-02 M17-59624
REDUCTION OF AREA IN HOT DEFORMATION BY TENSILE STRESS 67-02 M17-61996
CHROMIUM VANADIUM STEELS, MICROSTRUCTURE
CARBIDES IN THE FE-CR-V-C SYSTEM 67-06 M13-71115
CHROMIUM VANADIUM STEELS, WELDING
WELDING OF KH8VL STEEL CAST FITTINGS TO PREVIOUSLY WELDED KH8VF STEEL TUBES 67-02 M11-60011
CHROMIUM VANADIUM STEELS, WIRE
WHAT TO LOOK FOR IN SPRING WIRE 67-03 M17-65978
CHROMIZING
DIFFUSION KINETICS IN BINARY SYSTEMS IN THE PRESENCE OF CERTAIN PHASES 67-01 M14-57345
DIFFUSION CHROMIZING OF IRON POWDERS IN SOLID POWDER MIXTURE. PT. 2 67-02 M09-61702
CONDITIONS OF PREPARATION OF CHROMIZED IRON POWDER BY THE METHOD OF DIFFUSIONAL SATURATION FROM SOLID CHROMIUM-CONTAINING PACKING MATERIALS. PT. 1 67-02 M09-62120
CHROMIZING MOLYBDENUM FOR GLASS SEALING 67-02 M12-60698
PROCESSES MODIFYING THE PROPERTIES OF TOOL SURFACES 67-02 M12-60865
NEW CHROMIUM PLATING PROCESS 67-02 M12-60885
THERMODYNAMICS OF DIFFUSION CHROMIZING OF IRON 67-02 M12-62244
CHROMALUMINIZING 67-02 M18-60861
INFLUENCE OF CARBURIZING AND CHROMIZING ON INTERACTION BETWEEN IRON AND LIQUID ZN 67-02 M18-61992
THE SINTERING OF GRAPHITE POWDERS DURING CHEMICOTHERMAL TREATMENT WITH CARBIDE-FORMING ELEMENTS 67-04 M12-67336
ALPHATIZING--A NEW CHROMIZING METHOD 67-04 M12-67799
STUDY OF THE MICROCRYSTALLINE LAYERS OF CHROMIUM NITRIDE, CR2N BETA PHASE, AT THE SURFACES OF ARMCO IRON CHROMIZED IN THE GASEOUS PHASE 67-04 M14-67747
CHROMIZED STEEL WELDS ARE STRONG AND CORROSION RESISTANT 67-05 M11-69497
THE OXIDATION OF CHROMIUM DIFFUSION COATINGS ON IRON-- CHROMIUM VOLATILITY AND EXPERIMENTAL TECHNIQUES 67-05 M12-68639
CHROMIZING OF MACHINE COMPONENTS OF STEEL AND CAST IRON 67-05 M12-69070
CHROMIZED STEEL--CORROSION RESISTANCE AT LESS COST THAN STAINLESS STEEL 67-05 M12-69496
SURFACE ALLOYING OF STEEL CASTINGS 67-05 M12-69604
SURFACE HARDENING, CORROSION AND SCALING PROTECTION OF STEEL BY METALLIC SURFACE IMPREGNATION 67-05 M18-68734
METALLIC DIFFUSION PROCESSES. CHROMIZING 67-06 M12-71907
NITRIDING OF DIFFUSION-CHROMIZED STEEL--A NEW CASE HARDENING METHOD 67-07 M10-74181
SOME PROMISING PROCESSES TO PROTECT SINTERED IRON AND STEEL AGAINST CORROSION 67-07 M18-73230
INFLUENCE OF DIFFUSION CHROMIZING ON FATIGUE AND CORROSION FATIGUE OF CARBON STEEL 67-07 M18-74183
CONDITIONS OF PREPARATION OF CHROMIZED IRON POWDER BY THE METHOD OF DIFFUSIONAL IMPREGNATION FROM SOLID CHROMIUM-CONTAINING PACKING MATERIALS. PT. 2 67-08 M09-75847
NEW CHROMIZING AND CHROMIUM-ALUMINIZING PROCESSES 67-08 M12-75609
MECHANICAL PROPERTIES OF CHROMIUM DIFFUSION COATINGS 67-09 M12-76435
INFLUENCE OF DIFFUSION CHROMIZING ON SOME PHYSICAL AND MECHANICAL PROPERTIES OF CARBON STEEL 67-09 M17-76434
BETHLEHEMS SHEET CHROMIZING PROCESS 67-10 M12-78471
BETHLEHEMS SHEET CHROMIZING PROCESS 67-10 M12-78618
FINISHES MAKE THE PRODUCT 67-10 M12-79761
EFFECT OF CEMENTATION AND SUBSEQUENT DIFFUSION CHROMIZING ON THE INTERACTION OF IRON AND LIQUID ZINC 67-10 M18-78849
NEW PROCESS CREATES SUPERHARD PARTS 67-11 M12-81365
CHROMIZING COATING PROCESS FOR LOW-CARBON STEEL 67-12 M09-82398
SOME PROPERTIES OF IRON POWDER PARTS, ALLOYED WITH 6 PER CENT CR 67-12 M09-83556
CHROMIZING TURNS PINK TO REDUCE WEAR 67-12 M12-82399
THE EFFECT OF THERMAL AND MECHANICAL FINAL TREATMENTS ON THE FATIGUE BEHAVIOR OF CHROMIZED BOLTS 67-12 M12-83148
CHRONOGRAPHS
SEE MEASURING INSTRUMENTS
CHRONOMETERS
SEE MEASURING INSTRUMENTS

CHUCKING
SIMPLE DIAL-IN CHUCKING MACHINE COMBINES VERSATILITY AND SPEED 67-07 M08-74294
CINDERS, BENEFICIATION
WORKING OF NONFERROUS METALLIFEROUS CINDERS INTO IRON ORE PELLETS BY LDK PLANT 67-06 M02-70852
CINEMATOGRAPHY
A VACUUM HOT STAGE STRAINING MICROSCOPE DESIGNED FOR DEFORMATION AND ENVIRONMENTAL STUDIES UP TO 1000 C 67-04 M13-66247
A CINEMATOGRAPHIC STUDY OF THE MASSIVE TRANSFORMATION IN CU-GA ALLOYS 67-06 M14-70403
CINERADIOGRAPHY
SEE RADIOGRAPHY
CIRCUITRY
SEE ELECTRIC CIRCUITS
CIRCUITS
SEE ALSO ELECTRIC CIRCUITS
INTEGRATED CIRCUITS
POWER SUPPLY CIRCUITS
PRINTED CIRCUITS
CIRCUITS, WELDING
THERMOCRUCIBLE WELDING CONNECTIONS TO EARTHING DEVICES 67-04 M11-67937
CLAD METALS
REVIEW OF WORK ON BERYLLIUM AS CLADDING MATERIAL 67-01 M12-57992
CLADDING STEEL WITH TITANIUM THROUGH A VANADIUM INTERLAYER 67-02 M12-61289
STAINLESS LININGS BY AUTOMATIC WELDING IN NUCLEAR CONSTRUCTIONS 67-03 M11-65447
AUTOMATIC SURFACE CLADDING WITH STRIP-ELECTRODES 67-03 M12-65814
SITE WELDING ON 20K STEEL PLATE CLAD WITH KH17N13M2T STEEL 67-04 M11-66477
TITANIUM-CLAD STEEL BY EXPLOSION WELDING 67-04 M12-66134
PRODUCING NB-STEEL BIMETAL BY VACUUM ROLLING 67-05 M12-68238
CLADDING AND STRUCTURAL MATERIALS 67-06 M01-70092
CLAD METALS, ADHESION
TRANSITION LAYER IN IRON-TITANIUM BIMETAL 67-01 M12-58033
ROLLING OF BIMETAL STEEL--AL-SB-MG ALLOY WITH ALUMINUM INTERLAYER 67-02 M12-59197
CLAD METALS, BONDING
PRESSURE BONDING 67-11 M11-80479
CLAD METALS, CHEMICAL ENGINEERING
STAINLESS STEEL AND THE CHEMICAL INDUSTRY 67-03 M20-65462
STAINLESS AND SPECIAL ALLOY STEELS 67-05 M20-69547
CLAD METALS, CORROSION
EXAMINATION OF FUEL AND CLADDING IN PWR-1 BLANKET RODS 67-03 M18-65019
MATERIALS OF CONSTRUCTION 67-03 M20-65696
CLAD AND PRECOATED METALS 67-06 M12-70495
GENERAL CORROSION OF INCONEL ALLOY 625 IN SIMULATED SUPERHEAT REACTOR ENVIRONMENT 67-08 M18-76140
PRINCIPAL METHODS OF PROTECTING STEEL FROM HYDROGEN CORROSION 67-11 M18-80593
THE EFFECT OF INITIAL WEATHER CONDITIONS ON THE ATMOSPHERIC CORROSION OF ALUMINUM AND ITS ALLOYS 67-11 M18-81522
ATMOSPHERIC CORROSION TESTS IN SWEDEN. HARD ROLLED ALUMINUM ALLOYS 67-11 M18-81523
STAINLESS STEELS IN THE CELLULOSE INDUSTRY 67-12 M20-83297
CLAD METALS, DIFFUSION
INVESTIGATION OF THE MICROSTRUCTURE AND PHASE COMPOSITION OF A DIFFUSION LAYER IN A 3-COPPER BIMETAL STEEL 67-02 M13-59664
CLAD METALS, EXTRUSION
SOME COEXTRUSION EXPERIMENTS OF ALUMINIUM CLADDED CERMETALLIC CORE RODS 67-04 M07-67246
CLAD METALS, HEAT TRANSFER
INVESTIGATION OF NONSTATIONARY THERMAL FIELDS IN ALUMINUM-STEEL BIMETAL 67-01 M11-58268
RESEARCH INTO THE TRANSIENT THERMAL FIELD IN ALUMINIUM CLAD STEEL 67-04 M11-67349
CLAD METALS, IRRADIATION
THE IRRADIATION BEHAVIOUR OF PLUTONIUM-URANIUM MONOCARBIDE 67-09 M16-76354
IRRADIATION BEHAVIOUR OF SOLID SOLUTION URANIUM-PLUTONIUM MONOCARBIDES AT HIGH BURNUPS 67-09 M16-76355
CLAD METALS, MECHANICAL PROPERTIES
STUDY ON PREVENTIVE METHOD FOR WELD CRACKS OF 405 CLAD STEEL BY 13 CR STAINLESS STEEL ELECTRODE 67-01 M11-58698
HEAT-RESISTANT TITANIUM ALLOYS CLAD WITH TITANIUM 67-02 M12-61618
THE ROLE OF THE CLADDING LAYER IN THE FATIGUE PROCESS OF DURALUMIN 67-02 M17-59656
CRACK PROPAGATION IN HARD CLAD STEEL 67-02 M17-60779
CHARACTERISTICS OF FRACTURE IN CLAD HIGH-STRENGTH STEELS 67-02 M17-60794
BRITTLE BEHAVIOR IN EXTRUDED BERYLLIUM TUBES 67-02 M17-60906
MECHANICAL PROPERTIES OF HIGH-STRENGTH BIMETAL SHEETS 67-02 M17-61971
STUDIES ON THE MECHANICAL PROPERTIES OF JAPANESE BERYLLIUM 67-03 M17-65295
INVESTIGATION OF LAYER ADHESION STRENGTH IN BIMETAL SHEETS DURING CYCLICAL LOADING 67-03 M17-65606
EFFECT OF HEAT TREATMENT AND PLATING ON THE BIAXIAL TENSILE STRENGTH OF TITANIUM ALLOYS VT14, VT15 AND VT16 67-04 M17-67535
PRODUCING BIMETALS BY VACUUM ROLLING 67-05 M12-68235
STRENGTH AND STRUCTURE OF AL-CU BONDED JOINTS 67-05 M17-69541
EXPANDABILITY TEST ON BERYLLIUM TUBE TO BE USED FOR FUEL CLADDING OF NUCLEAR POWER REACTORS 67-05 M17-69883
THE USE OF SPHERICAL UO2 IN A CERMET FUEL PLATE 67-06 M16-71053
STRAIN-CYCLE PHENOMENA IN THIN-WALL TUBING 67-07 M17-73391
DEPENDENCE OF BOND QUALITY ON THE ROLLING CONDITIONS OF BIMETAL 67-08 M12-75215
ADHESION STRENGTH OF LAYERS IN BIMETAL SHEETS UNDER INTERMITTENT STATIC LOADS 67-08 M17-74531
EXPERIMENTAL DETERMINATION OF INTERNAL STRESSES IN BILAYER SHEET STEEL 67-08 M17-74584
USE OF THREE-LAYER U7-30-U7 STEELS FOR AUTOMOBILE SPRINGS 67-08 M20-74968
RESEARCH INTO THE STRUCTURE AND PROPERTIES OF COPPER-CLAD STEEL WHEN IT IS ELONGATED AT A HIGH TEMPERATURE IN A VACUUM 67-09 M12-76559
SELECTED MECHANICAL PROPERTIES OF CLADDING AND STRUCTURAL MATERIALS. REFRACTORY METALS 67-09 M17-77322
SELECTED METALLURGICAL ASPECTS OF CLADDING AND STRUCTURAL MATERIALS 67-09 M17-77323
WORKING TECHNIQUES OF TITANIUM AND TITANIUM-CLAD STEELS FOR CHEMICAL VESSELS 67-10 M12-79493
MECHANICAL PROPERTIES OF HIGH-STRENGTH BIMETALLIC SHEETS 67-10 M17-78828
MEASURING CREEP IN TRANSMISSION LINES 67-10 M17-79496
SELECTED METALLURGICAL ASPECTS OF CLADDING MATERIALS 67-11 M17-80473
SELECTED MECHANICAL PROPERTIES OF CLADDING AND STRUCTURAL MATERIALS 67-11 M17-80474
CLAD METALS, METAL WORKING
COLD HEADING SAVES MONEY ON SMALL PARTS 67-04 M08-68103
STAINLESS STEEL FUEL PIN CLADDING 67-09 M20-77548
CLAD METALS, MICROSCOPY
A VACUUM HOT STAGE STRAINING MICROSCOPE DESIGNED FOR DEFORMATION AND ENVIRONMENTAL STUDIES UP TO 1000 C 67-04 M13-66247
CLAD METALS, NONDESTRUCTIVE TESTING
CRITICAL ULTRASONIC REFLECTIVITY--A NEGLECTED TOOL FOR MATERIAL EVALUATION 67-02 M19-61799
NONDESTRUCTIVE EXAMINATION OF RADIOACTIVE MATERIAL USING NEUTRON RADIOGRAPHY 67-03 M19-65015
CLAD METALS, PHYSICAL PROPERTIES
A BOOMLET IN ZIRCALOY 67-06 M20-71067
CLAD METALS, POWDER METALLURGY
JOINING TECHNIQUES FOR SAP--CLAD NUCLEAR FUEL ELEMENTS 67-07 M11-73825
CLAD METALS, RAILROAD TRACK
DEVELOPING A TECHNOLOGY FOR PRODUCING HIGH-STRENGTH RAILROAD RAILS 67-05 M08-68554
DEVELOPING A TECHNOLOGY FOR PRODUCING HIGH-TENSILE STEEL RAILWAY RAILS 67-07 M08-72465
CLAD METALS, ROLLING
NICKEL-STEEL-NICKEL PACK ROLLING

CLAD METALS
67-01 M12-58069
CLAD METALS, WELDING
THE THERMODIFFUSION WELDING OF METAL COMPONENTS
67-02 M11-60190
WELDING OF APPARATUS FROM TI-CLAD BIMETALS
67-04 M11-66347
CLADDING METHODS USED BY AN OIL COMPANY FOR BASE METAL PROTECTION 67-04 M12-66644
WELDED EXPANDED TUBES OF LARGE DIAMETER MADE OF STEEL BIMETAL 67-06 M11-71259
PECULIARITIES OF SPOT WELDING OF CLADDINGS AND VARIOUS LIGHT METAL ALLOYS 67-06 M11-71849
USE OF EP-389 WIRE FOR AUTOMATIC WELDING OF CLAD STEELS USED FOR CHEMICAL AND OIL REFINING APPARATUS 67-06 M11-71851
AUTOMATIC WELDING OF ST. 3 PLUS OKH23N28M3D3T BILAYER STEEL 67-07 M11-72873
EXPANDED LARGE DIAMETER WELDED PIPES OF TWO-LAYER STEEL 67-08 M11-75728
MANUFACTURING TITANIUM HEAT EXCHANGERS
67-09 M11-77959
SPOT WELDING COATED AND DISSIMILAR LIGHT ALLOYS
67-11 M11-80881
THE AUTOMATIC WELDING OF CLAD STEELS USING EP-389 ELECTRODE WIRE 67-11 M11-80883
STAINLESS STEELS AND CLAD SHEET IN TANKER CONSTRUCTION 67-12 M20-83298
CLAD WIRE
SEE CLAD METALS
WIRE
CLADDING
SEE ALSO ELECTROCLADDING
EXPLOSIVE CLADDING
HOT CLADDING
ROLL CLADDING
WELD CLADDING
THE USE OF EXPLOSIVE ENERGY IN THE DEFORMATION AND WELDING OF METALS 67-01 M07-57990
ROLLING TITANIUM-STEEL BIMETAL IN VACUUM AND IN AN INERT MEDIUM 67-01 M12-57280
REVIEW OF WORK ON BERYLLIUM AS CLADDING MATERIAL
67-01 M12-57992
STAINLESS STEEL SANDWICH PRODUCTION
67-01 M12-58031
PACK ROLLING TITANIUM-IRON 67-01 M12-58068
ROLLING THICK TWO-LAYER SHEETS OF STEEL/ALLOY MONEL ON A 2800 MILL 67-01 M12-58071
RESEARCH INTO THE DEFORMATION AND STRENGTH OF LAYER COHESION IN A STEEL-COPPER BIMETAL IN HOT ROLLING
67-01 M12-58072
BIMETAL TAPE WITH METALLOCERAMICC MAGNETIC LAYER ON A NONMAGNETIC BASE 67-01 M12-58137
ROLLING LARGE-DIMENSION SHEET SANDWICHES CLAD IN TOUGH-DEFORMING STEELS 67-01 M12-58182
METAL CLAD ELASTOMERIC CORE SEALS FOR LIQUID ROCKET PROPELLANTS 67-01 M12-58523
COMPATIBILITY OF U-PU-FZ FUEL ALLOYS WITH POTENTIAL CLADDING MATERIALS 67-01 M14-58585
ADHESIVE STRENGTH OF LAYERS OF ALUMINUM ALLOY-KH18N10T STEEL BIMETAL 67-01 M17-57281
WORKABILITY OF CARBON STEEL-NICKEL BIMETAL
67-01 M17-57603
PRODUCTION OF TWO-LAYER STEEL SHEET PACKS
67-02 M07-58876
CHARACTERISTICS AND NEW TRENDS IN THE PRODUCTION OF SEMI-FINISHED PARTS FROM SINTERED ALUMINUM POWDER 67-02 M09-61627
THIN STEEL SANDWICH FOR THE WOODWORKING INDUSTRY
67-02 M12-58853
CLADDING STEEL WITH TITANIUM THROUGH A VANADIUM INTERLAYER 67-02 M12-61289
INVESTIGATION OF THE MICROSTRUCTURE AND PHASE COMPOSITION OF A DIFFUSION LAYER IN A 3-COPPER BIMETAL STEEL 67-02 M13-59664
CHLORINE CORROSION ENCOUNTERED WITH THE GENERATION AND PROCESSING OF LURGI PRESSURE GASIFICATION GAS MADE FROM COAL 67-02 M18-62021
INFLUENCE OF THE INTERMEDIATE NI FILM ON STRUCTURE AND PROPERTIES OF BIMETAL STEEL
67-04 M12-66373
CLADDING STEEL WITH LEAD BY POWDER ROLLING
67-04 M12-68106
COPPER CLAD ALUMINUM WIRE--A NEW ELECTRICAL CONDUCTOR MATERIAL 67-04 M20-66132
PRODUCING BIMETALS BY VACUUM ROLLING
67-05 M12-68235
PRODUCING NB-STEEL BIMETAL BY VACUUM ROLLING
67-05 M12-68238
CLAD METAL WIRE OUTPERFORMS SOLID WIRE
67-05 M12-68425
PRECIOUS METALS--GLAMOUR PUTS ON A HARD HAT
67-06 M01-70485
FABRICATION OF NUCLEAR FUELS IN INDIA
67-06 M16-71034
CLADDING DEVELOPMENT FOR FAST BREEDER REACTORS
67-07 M12-73465
THE PRODUCTION OF CLAD HOLLOW BODIES BY HOT EXTRUSION 67-08 M07-75108
SILVER BIMETALS 67-08 M11-75634
CLADDING TITANIUM IN A VACUUM 67-08 M12-75097
RESEARCH INTO THE STRUCTURE AND PROPERTIES OF COPPER-CLAD STEEL WHEN IT IS ELONGATED AT A HIGH TEMPERATURE IN A VACUUM 67-09 M12-76559
STRIP CLADDING OF STEEL WITH STAINLESS AND NICKEL BASED ALLOYS. PT. 1. INTRODUCTION AND WELDING RESULTS 67-10 M11-78459
STAINLESS STEEL OVERLAY WELDING OF LARGE REACTOR BY STRIP ELECTRODE METHOD TOGETHER WITH OTHER WELDING METHODS 67-11 M11-81184
THE ADHESION AND BONDING OF CAOUTCHOUC-ELASTIC MATERIALS WITH SPECIAL REGARD TO RUBBER-METAL BONDING 67-11 M12-80496
EFFECT OF THE THICKNESS OF INTERMEDIATE NICKEL COATINGS ON THE STRUCTURE AND PROPERTIES OF TWO-LAYER STEEL PLATES 67-11 M12-80975
VACUUM PRESSING OF HEAT RESISTANT METALS
67-12 M08-83024
A HYDRAULIC PRESS FOR CLADDING A STEEL WIRE WITH AN ALUMINUM SHEATH 67-12 M12-82067
METHOD OF MANUFACTURING ALLOY STEEL-PLATED SECTIONS FROM CARBON STEEL 67-12 M12-82904
CLADDING, POWDER METALLURGY
ROLL COMPACTING OF ALUMINUM-CLAD SINTERED STRIP
67-08 M09-74915
CLADDINGS
SEE CLAD METALS
CLAMPS, ROLLING
AUTOMATED THREAD ROLLING 67-01 M08-58497
CLASSIFIERS
SEE CENTRIFUGAL CLASSIFIERS
CYCLONE SEPARATORS
MAGNETIC SEPARATORS
WET CLASSIFIERS
CLASSIFIERS /SEDIMENTATION/
SEE CENTRIFUGAL CLASSIFIERS
CYCLONE SEPARATORS
CLAY MINERALS, BENEFICIATION
METHODS FOR PRODUCING ALUMINA FROM CLAY
67-06 M02-71556
CLEANING
SEE ALSO ACID CLEANING
ALKALINE CLEANING
ANODIC CLEANING
BLAST CLEANING
CHEMICAL CLEANING
DEGREASING
ELECTROCHEMICAL CLEANING
FLAME CLEANING
GAS SCRUBBING
GRIT BLAST CLEANING
MECHANICAL CLEANING
METAL CLEANING
PICKLING
ULTRASONIC CLEANING
ULTRASONIC DEGREASING
VAPOR DEGREASING
VIBRATION CLEANING OF CASTINGS 67-01 M12-57462
REMOVAL OF SCALE ON WIRE ROD 67-01 M12-57909
CORROSION TEST COUPONS--MECHANICAL CLEANING
67-01 M12-58768
THE CLEANING OF METALS BY VAPOR DEGREASING
67-02 M12-60030
SOME VIEWS CONCERNING CLEANING OF CASTINGS BY GRINDING 67-05 M12-68455
JET WHEEL-CLEANING FACILITATES GRINDING OF CERTAIN ALLOY MATERIALS 67-06 M08-70864
THE CLEANING OF STRUCTURAL PARTS FOLLOWING HEAT TREATMENT IN SALT BATHS 67-06 M12-71275
CLEANING AND MAINTENANCE OF SURFACES
67-08 M12-74860
IMPROVEMENT OF PRODUCTIVITY IN TSURUMI NO. 1 BLAST FURNACE 67-09 M04-77329
SURFACE PREPARATION AND ITS RELATIONSHIP TO WEAKNESS OF A COATING 67-09 M12-77813
PREPARATION OF AN ALUMINUM SURFACE FOR ELECTROLYTIC NICKEL PLATING 67-10 M12-78541
GRINDING AT HIGH CIRCUMFERENTIAL RATES
67-10 M12-79798

GRINDING IN THE CASTING PLANT 67-10 M12-79800
LEACHING PRECISION CASTINGS 67-11 M12-81362
MECHANIZED DRESSING OF HEAVY-GAGE SHEETS 67-12 M08-81872
NEW DEVELOPEMENTS IN SALT BATH HEAT TREATING 67-12 M10-81943
SOME GOOD TIPS FOR PLATING STEEL, BRASS AND DIE CASTINGS 67-12 M12-81933
TREATMENT OF METAL SURFACES IN THE AERONAUTICS INDUSTRY 67-12 M12-83381

CLEAVAGE
CALCULATION OF CLEAVAGE CHARACTERISTICS OF HEXAGONAL-CLOSE-PACKED CRYSTALS 67-01 M13-58456
ON THE VALIDITY OF THE LAW OF CONSTANT NORMAL STRESS FOR THE TENSILE CLEAVAGE OF ZINC SINGLE CRYSTALS 67-05 M17-68299
MECHANICAL PROPERTIES AND CLEAVAGE RUPTURE OF IRON SINGLE CRYSTALS AT 77 K 67-05 M17-69339
THE PROPAGATION OF CRACKS THROUGH GRAIN BOUNDARIES IN POLYCRYSTALLINE 3 PER CENT SILICON-IRON 67-06 M17-70414
THE NUCLEATION AND GROWTH OF CLEAVAGE MICROCRACKS IN MILD STEEL 67-06 M17-70622
A THEORETICAL FRACTURE CRITERION AND CLEAVAGE IN ZINC 67-06 M17-70634
CLEAVAGE CRACK PROPAGATION WITHIN CRYSTALS BY THE GRIFFITH MECHANISM VERSUS A DISLOCATION MECHANISM 67-06 M17-71090
THE MECHANICAL PROPERTIES OF ZINC SINGLE CRYSTALS AT HIGH STRAIN RATES 67-06 M17-71410
MICROSCOPIC EVIDENCE OF PLASTIC DEFORMATION ON CLEAVED GERMANIUM SURFACES 67-10 M13-79158
CLEAVAGE PHENOMENA AND TOPOGRAPHIC FEATURES 67-11 M17-80694
DISLOCATION AND DEFORMATION MODES IN CHROMIUM SINGLE CRYSTALS 67-12 M13-82564

CLEAVAGE, ALLOYING EFFECTS
THE INFLUENCE OF A FINE DISPERSION ON THE CLEAVAGE STRENGTH OF IRON 67-12 M17-82963

CLINCHING
CO2 SHIELDED PLUG WELDING OF 45 STEEL 67-02 M11-60008

CLINKER
COMPLEX REPROCESSING OF CLINKERS OF ZINC WORKS 67-04 M02-66967

CLINOMETERS
SEE MEASURING INSTRUMENTS

CLOSE PACKED HEXAGON
SEE HEXAGONAL LATTICE

CLOSED DIE FORGING
FEASIBILITY OF FLASHLESS DIE FORGING WITHOUT COMPENSATORS ON CRANK PRESSES 67-01 M07-57244
METAL FLOW IN STEEL FORGINGS 67-02 M07-59463
HOT EXTRUSION AND DIE FORGING 67-06 M07-71207
FUNDAMENTAL STUDY OF METAL FLOW IN STEEL FORGING. PT. 2 67-07 M07-73837
HOT WORK DIE STEELS FOR CLOSED IMPRESSION FORGING 67-07 M07-73959
INTRODUCING 5KHGSVF STEEL FOR DIES 67-07 M08-73956
FORGING 67-08 M07-74842
HOT WORK DIE STEEL FOR CLOSED IMPRESSION FORGING. PT. 2. PHYSICAL PROPERTY REQUIREMENTS OF DIE STEELS 67-08 M07-75492
HOT WORK DIE STEELS FOR CLOSED IMPRESSION FORGING. PT. 3. USE AND CARE OF DIE STEELS 67-09 M06-77186
STUDY OF METAL FLOW IMPROVES KNOWLEDGE OF FORGING 67-09 M07-76478
CLOSED-DIE FORGING IN SCOTLAND. PT. 2 67-11 M07-80420
CLOSED-DIE FORGINGS. PT. 3 67-12 M07-81946

CLOSED DIE FORGING, AUTOMATION
CLOSED-DIE FORGING IN SCOTLAND 67-09 M07-77377

CLOSED DIE FORMING
CLOSED DIES WITH A SLIDING BLOCK FOR REDUCING BILLETS 67-08 M08-75485

CLUSTERING
ON THE AGING PHENOMENA AND LATTICE DEFECTS IN ALUMINIUM ALLOYS. --REPORT 2--. INFLUENCE OF CR, MN AND ZR ON THE PREPRECIPITATION IN AL-ZN ALLOYS 67-01 M14-57454
A KINETIC APPROACH TO INTERSTITIAL CLUSTERING IN NEUTRON IRRADIATED METALS 67-05 M13-68297
CLUSTERING OF CARBON ATOMS IN ALPHA-IRON 67-06 M14-71963
CLUSTERING IN LIQUID ALUMINUM-COPPER AND LEAD-TIN EUTECTIC ALLOYS 67-11 M16-81345

CLUSTERING, ALLOYING EFFECTS
INTERACTION BETWEEN THIRD ADDITION ELEMENTS AND G. P. ZONES IN AL-ZN ALLOYS 67-09 M14-77999
INFLUENCE OF ADDITIONAL ELEMENTS ON THE FORMATION OF GP ZONES IN AL-ZN-MG ALLOYS 67-09 M14-78239
THE PARTICIPATION OF HYDROGEN IN THE FORMATION OF CRYSTALLIZATION CENTERS IN MAGNESIUM MELTS AND IN THE REFINING OF AL-SI-ALLOYS 67-10 M14-78690
SOLUTION, PRECIPITATION AND HARDENING EFFECT OF NIOBIUM ON UNALLOYED STEEL 67-10 M17-78692

CLUSTERING, IMPURITY EFFECTS
DETECTION OF SELENIUM CLUSTERING IN GAAS BY TRANSMISSION ELECTRON MICROSCOPY 67-07 M14-72650
INTERSTITIAL DEFECT CLUSTERS IN GOLD AFTER BOMBARDMENT WITH 270EV GOLD IONS 67-09 M14-77519

CLUSTERING, RADIATION EFFECTS
CLUSTERING OF DEFECTS IN NEUTRON-IRRADIATED BERYLLIUM OXIDE 67-06 M14-70983
PHYSICAL CHARACTERIZATION OF MO SINGLE CRYSTALS FOR IRRADIATION EXPERIMENTS 67-08 M14-75994
THE EFFECT OF IRRADIATION TEMPERATURE ON STRENGTH AND MICROSTRUCTURE OF STAINLESS STEEL 67-09 M17-77471
FISSION FRAGMENT DAMAGE TO METALLIC CRYSTALS. PT. 2. ORDERED CU-AU ALLOY 67-12 M16-82545

CLUTCHES, MECHANICAL PROPERTIES
FAILURE OF A HYDRAULIC CLUTCH 67-08 M17-75533

CLUTCHES, POWDER METALLURGY
SOME PROBLEMS IN THE MANUFACTURE OF FRICTION MATERIALS ON AN IRON POWDER BASE 67-07 M09-72507
SOME PROBLEMS IN THE MANUFACTURE OF SINTERED IRON-BASE FRICTION MATERIALS 67-11 M09-80893

CLUTCHES, POWDER METALLURGY PARTS
SINTERED METAL FRICTION MATERIALS 67-01 M09-58366

COAL
SEE ANTHRACITE
LIGNITE

COAL DUST
BLAST FURNACE OPERATES ON FLUXED SINTER WITH COAL DUST INJECTED TO THE HEARTH 67-11 M04-81314

COAL DUST, FUEL INJECTION
EXPERIMENTAL INDUSTRIAL INJECTION OF COAL DUST INTO THE HEARTH OF A LARGE BLAST FURNACE 67-04 M04-67770

COAL DUST, REFINING
EXTRACTION OF GERMANIUM AND GALLIUM FROM COAL FLY ASH AND PHOSPHORUS FURNACE FLUE DUST 67-07 M03-73617

COAL GAS
SEE COKE OVEN GAS

COAL OIL
SEE KEROSENE

COALESCENCE
SEE COALESCING

COALESCING
COALESCENCE OF DISPERSION PHASES IN ALLOYS OF THE AL-CU, AL-MG AND CD-SB SYSTEMS 67-05 M14-68972
INFLUENCE OF TEMPERATURE AND AGING TIME ON STRUCTURE AND PHASE COMPOSITION OF AMG6 AL ALLOYS 67-06 M14-70074
EFFECT OF THE TEMPERING TEMPERATURE AND TIME ON THE STRUCTURE AND PHASE COMPOSITION OF THE AMG6 ALLOY 67-10 M14-78820

COATED ABRASIVES
SEE ABRASIVES

COATED ELECTRODES
STATE AND DEVELOPMENT OF WELDING MATERIAL MANUFACTURE 67-01 M11-57145
STAINLESS STEEL WELDS 67-02 M11-60590
FACTORS AFFECTING THE FERRITE CONTENT AND ITS DETERMINATION IN WELD DEPOSITS OF COATED AUSTENITIC STAINLESS ELECTRODES 67-03 M11-65815
WELDING METALLURGY OF RUTILE ELECTRODES 67-04 M11-67420
EFFECT OF COMPLEX FERROALLOYS IN THE COATINGS OF ELECTRODES ON THE PROPERTIES OF BUILTUP METAL 67-04 M12-66814
THE EFFECTS OF COMPLEX FERROALLOYS IN ELECTRODE COATINGS ON THE DEPOSITED METAL 67-08 M12-75918

COATED ELECTRODES
ELECTRODE COATINGS FOR WELDING STEELS CONTAINING OXIDISABLE ELEMENTS 67-09 M11-77236
ELECTROSLAG WELDING WITH COATED CONSUMABLE NOZZLES 67-09 M11-78150
HOW TO USE COVERED ELECTRODES 67-10 M11-79759
EFFECT OF THE INITIAL TEMPERATURE OF THE BASE METAL ON PROPERTIES OF THE WELDED JOINT 67-11 M11-80636
COATED ELECTRODES, CORROSION
THE BEHAVIOR OF PLAIN CARBON CONSTRUCTION STEELS AND FILLER MATERIALS WHEN SUBJECTED TO SAND EROSION AND CAVITATION IN HYDROTURBINE PLANTS 67-02 M18-59037
DEGRADATION MECHANISMS OF PLATINUM- AND RHODIUM-COATED TITANIUM ANODES IN THE ELECTROLYSIS OF CHLORIDE AND CHLORIDE-CHLORATE SOLUTIONS 67-06 M18-71697
COATING
SEE ALSO ALUMINUM PLATING
CADMIUM PLATING
COBALT PLATING
ROLL PLATING
INDUSTRIAL APPLICATION OF ELECTROPHORETIC COATING 67-01 M12-57517
COATING, MANUFACTURING SEQUENCE AND COMPONENT DESIGN INTEGRATION 67-01 M12-57987
X-RAY STUDY OF SOME THIN NICKEL ELECTRODEPOSITS 67-01 M14-57493
CONFIDENCE IN ALUMINIUM 67-02 M07-59487
GOLD FILMS AND GOLD FILM LIGHT FILTERS 67-02 M12-58909
REFRACTORY METALS--PROTECTION BY ALUMINIUM-TIN COATINGS 67-03 M12-65165
REVIEW OF RECENT DEVELOPMENTS NICKEL-BASE AND COBALT-BASE ALLOYS 67-04 M01-67468
HEAT INSULATION COATINGS FOR CHILL MOLDS 67-04 M06-67942
THE FORMATION STAGE OF A SURFACE COATING 67-04 M12-66719
POLISH ON ZINC IS PRESERVABLE 67-06 M12-70659
ALCAN COIL COATER HITS 300 FPM 67-06 M12-70866
USING EPOXY MATERIALS FOR PROTECTIVE COATINGS OF PICKLING BATHS 67-06 M12-71265
PROTECTION OF TITANIUM ALLOYS FROM HIGH-TEMPERATURE GAS CORROSION 67-07 M18-73016
CATALYTIC OXIDATION OF FUMES RECOVERS OVEN HEAT IN CONTINUOUS BAKING OF COATED ALUMINUM STRIP 67-08 M10-75499
SYNTHETIC COATINGS FOR AL 67-08 M12-74597
GLASS COATING OF THE INTERNAL SURFACE OF STEEL TUBES BY A POWDER METHOD 67-08 M12-75016
PREPARES ALUMINUM FOR TEFLON COATING 67-08 M12-75396
MOISTURE-REPELLANCY OF FLUOROCALCIUM-TYPE ELECTRODE COATINGS 67-08 M12-75415
METAL FINISHING GUIDEBOOK DIRECTORY FOR 1967 67-08 M12-76203
PROTECTIVE COATINGS FOR METALS 67-11 M12-80801
WATER REPELLANT CALCIUM FLUORIDE ELECTRODE COATINGS 67-12 M12-82036
INVESTIGATION OF THE PROCESS OF FRICTION DEPOSITION OF BRONZE ONTO STEEL 67-12 M12-82629
COATINGS
SEE ALSO ABRASION RESISTANT COATINGS
ANODIC COATINGS
ANTIFOULING COATINGS
CLAD METALS
CONVERSION COATINGS
DIFFUSION COATINGS
DUPLEX ELECTROPLATES
ELECTRO COATINGS
ELECTROPHORETIC PLATES
ELECTROPLATES
ENAMELS
GLAZES
HOT DIP COATINGS
LACQUERS
METAL COATINGS
ORGANIC COATINGS
OXIDE COATINGS
PAINTS
PHOSPHATE COATINGS
PRIMERS /COATINGS/
PROTECTIVE COATINGS
SPRAYED COATINGS
VACUUM DEPOSITED COATINGS
VAPOR DEPOSITED COATINGS
VITREOUS ENAMEL
WELD DEPOSITED COATINGS
WIDER PROPERTIES WITH COMPOSITE COATINGS 67-05 M12-69569
INFLUENCE OF THE PICKLING ADDITIONS ON FISH SCALE DEFECTS OF ENAMEL COATINGS 67-05 M12-69835
THE COATING ON IRON AND STEEL WITH TITANIUM TETRACHLORIDE 67-06 M12-71294
ENGINEERING PROPERTIES OF INORGANIC COATINGS 67-09 M01-77911
INFLUENCE OF ETCHING ADDITIVES ON FISH SCALE FLAWS IN ENAMEL COATING 67-12 M12-82268
COATINGS, ADHESION
ON THE MECHANISM OF FORMING COATINGS WITH POWDERED METAL 67-01 M12-57318
THE ADHESION TEMPERATURE BETWEEN GLASS AND METALS 67-04 M12-67421
SURFACE PREPARATION AND ITS RELATIONSHIP TO WEAKNESS OF A COATING 67-09 M12-77813
TROUBLE SHOOTING IN PLATING ON PLASTICS 67-10 M12-79310
COATINGS, BLISTERING
STUDIES OF THE BLISTERS ON THE PLATED SURFACE OF ZINC ALLOY DIE CASTINGS 67-08 M18-74923
COATINGS, BRITTLENESS
APPLICATION OF BRITTLE COATING IN DIMENSIONING MACHINES EXPOSED TO COMPLEX LOADING 67-02 M17-59702
COATINGS, CHEMICAL ANALYSIS
THE CHEMISTRY OF THE MOLECULAR PLATING PROCESS 67-01 M12-58383
COATINGS, CORROSION
THE EFFECT OF SOME COATINGS ON THE FATIGUE AND CORROSION FATIGUE STRENGTH OF KH17N2 STEEL 67-01 M18-57667
COATINGS AND FINISHES 67-04 M12-67538
PRODUCTION OF PLASTIC-LINED PIPES 67-05 M18-69692
SYSTEMATIC INVESTIGATION OF THE POSSIBLE PROTECTION OF BRASS AGAINST STRESS CORROSION BY ELECTROPLATING 67-06 M18-71505
ANODIZING TITANIUM 67-07 M12-73628
COATING OF MOLYBDENUM WITH TITANIUM IN MOLTEN SALT ELECTROLYTE 67-07 M12-73658
OXIDATION-RESISTANT COATINGS FOR REFRACTORY METALS 67-07 M12-74252
METAL PIPE FOR MOLTEN ALLOYS 67-07 M18-74040
MANUFACTURE AND USE OF PLASTIC-LINED PIPES 67-07 M18-74078
NEW ARMOR FOR PLANT EQUIPMENT 67-09 M12-77567
PROTECTION OF TUBES IN THE OIL INDUSTRY 67-10 M12-78543
THE HOT-DIP GALVANIZING OF SEMIFINISHED AND FINISHED PRODUCTS 67-10 M12-79399
THE INTENSITY OF THE REMOTE PROTECTION EFFECT OF ZN ON STEEL IN AIR 67-11 M18-81029
CORROSION OF ELECTROPRECIPITATED ANTIMONY AND SOME OTHER ANODE MATERIALS IN SULFIDE-ALKALI ELECTROLYTE 67-11 M18-81295
CHROMIUM COATED STEEL FOR CONTAINER APPLICATIONS 67-12 M12-82649
A SURVEY OF CHROMIUM DEPOSITION, FLUORIDE, FLUOBORATE, AND FLUOSILICATE BATHS 67-12 M12-82705
CORROSION PROPERTIES OF COMBINATION COATINGS 67-12 M18-81721
INVESTIGATIONS OF CORROSION DAMAGE ON CD-PLATED PARTS AND THEIR RESULTS 67-12 M18-82689
SCIENCE FOR ELECTROPLATERS. PT. 118. POROSITY 67-12 M18-82708
COATINGS, CORROSION RESISTANCE
THE PRESENT STATE OF METAL SPRAYING TECHNIQUES 67-07 M12-74020
COATINGS, CORROSION TESTS
GALVANOTHERMAL METHOD FOR PRODUCTION OF FE-NI-CR COATINGS 67-07 M12-73657
COATINGS, CRYSTAL GROWTH
LIQUID AND SOLID CESIUM ON A RHENIUM SUBSTRATE 67-12 M14-82376
EPITAXIAL GROWTH OF ZNTE ON ZNSE BY VAPOR TRANSPORT 67-12 M14-82675
COATINGS, CRYSTAL LATTICES
ELECTROCRYSTALLIZATION--A CONCEPT SYNONYMOUS TO ELECTRODEPOSITION 67-11 M12-80697
COATINGS, DECARBURIZING
INTERACTION BETWEEN CR COATING AND THE SURFACE LAYER OF THE BASE METAL UPON HEATING 67-02 M12-60853
COATINGS, DEFECTS
INFLUENCE OF OXIDANTS ON DISSOLUTION OF LOW-CARBON STEELS IN SULFURIC ACID AND ON QUALITY OF

ENAMELED COATINGS 67-10 M12-78535
COATINGS, DIMENSIONAL ANALYSIS
PRODUCTION METHODS FOR DETERMINING GOLD PLATE THICKNESS 67-12 M19-81749
COATINGS, DIMENSIONS
NON-DESTRUCTIVE TESTING OF THIN COATINGS 67-01 M19-58581
COATINGS, ELECTRICAL PROPERTIES
GOLD ELECTRICAL CONTACTS 67-02 M20-58918
MEASURING THE ELECTRICAL CONDUCTIVITY OF GALVANIC DEPOSITS IN THE COURSE OF ELECTROLYSIS 67-05 M15-68738
ELECTRIC INSULATION PROPERTIES OF FLAME-SPRAYED REFRACTORY COATINGS 67-10 M15-79581
COATINGS, HEAT TREATMENT
PROPERTIES OF ZINC COATINGS AFTER HEAT TREATMENT 67-05 M12-68372
HIGH SPEED OVEN UNIT DEVELOPED FOR CURING INSIDE COATINGS ON CANS 67-12 M10-82885
COATINGS, MAGNETIC PROPERTIES
RECORDING CHARACTERISTICS OF THICK COBALT-ZINC-PHOSPHORUS FILMS 67-07 M12-74126
MAGNETIC PROPERTIES OF CHEMICALLY DEPOSITED COBALT-IRON FILMS 67-09 M15-76996
COATINGS, MEASUREMENT
THE USE OF THE ELECTRON BEAM THICKNESS GAGE ON MULTI-LAYERED COATINGS 67-01 M19-57541
COATINGS, MECHANICAL PROPERTIES
HEAVY NICKEL PLATING IN MECHANICAL ENGINEERING 67-02 M12-59973
THE BEHAVIOR OF COATINGS AT EXTREMELY LOW TEMPERATURES 67-02 M17-59077
STRENGTH OF BISMUTH-COATED NICKEL IN ULTRASONIC FIELD 67-06 M17-70060
STRENGTH OF IRON-ZINC ALLOY LAYERS 67-07 M17-73234
FABRICATING PROPERTIES OF GALVANIZED SHEETS 67-07 M17-73235
MECHANICAL PROPERTIES OF CHROMIUM DIFFUSION COATINGS 67-09 M12-76435
FLAME-SPRAYED COATINGS 67-09 M12-76699
ADHERENCE TO CERAMIC COMPONENTS OF METAL LAYERS WHICH ARE DIFFICULT TO SEAL 67-09 M12-76749
FORMATION OF COATINGS DURING METALLIZING OF TUNGSTEN ONTO GRAPHITE 67-10 M12-78405
PREPARATION OF AN ALUMINUM SURFACE FOR ELECTROLYTIC NICKEL PLATING 67-10 M12-78541
ADHESIVE STRENGTH OF PLASMA COATINGS WITH THE SUBSTRATES 67-10 M12-79349
THE PRODUCTION AND TESTING OF PLASMA SPRAY COATINGS 67-10 M12-79381
STRENGTH OF NICKEL PLATED WITH BISMUTH IN AN ULTRASONIC FIELD 67-10 M17-78806
IMPROVING THE FATIGUE STRENGTH OF CHEMICALLY NICKEL-PLATED STEEL BY SURFACE HEATING WITH HIGH-FREQUENCY CURRENT 67-11 M10-81293
RECENT DEVELOPMENTS IN DECORATIVE NICKEL/CHROMIUM-PLATING PROCESSES IN THE UNITED KINGDOM 67-11 M12-80635
DRY-POWDER ALUMINIZING OF STEEL STRIP 67-11 M12-81139
CERAMIC INSULATED MAGNET WIRES 67-11 M12-81242
BOND STRENGTH OF WHITE METALLING 67-11 M12-81246
THE FATIGUE STRENGTH OF CARBON STEELS, DIFFUSION CHROMIUM-PLATED UNDER VARIOUS CONDITIONS 67-11 M17-80589
DETERMINING THE ADHESION STRENGTH OF COPPER AND NICKEL COATINGS TO A STEEL BASE BY THE LARGE CENTRIFUGAL FIELDS METHOD 67-11 M17-81299
SAFETY AND STATISTICAL INVESTIGATION OF THE FATIGUE BEHAVIOR OF SPECIMENS WITH SEVERAL CONCURRENT NOTCHES ON ZN-POWDER PRIMED STRIPS WITH WELDED TRANSVERSE REINFORCING STRIPS 67-11 M17-81382
FATIGUE TESTING OF WELDED JOINTS OF ST. 37, WITH AND WITHOUT, PAINTING 67-11 M17-81383
MOLD LIFE IN CENTRIFUGAL CASTING OF IRON PIPES 67-12 M06-82096
ADHERENCE AND POROSITY IN ION PLATED GOLD 67-12 M12-82456
INVESTIGATIONS OF THE ENAMEL ADHESION TO STEEL SHEET 67-12 M12-83400
ADSORPTION-INDUCED REDUCTION IN THE STRENGTH OF ZINC COATED WITH THIN MERCURY FILMS OVER A LIMITED SURFACE AREA 67-12 M17-82437
DEFORMATION OF PASSIVE FILMS 67-12 M17-82454
ELEVATED-TEMPERATURE TENSILE DUCTILITY MINIMUM IN SILICIDE COATED CB-1W AND CB-10W-2.5ZR 67-12 M17-83047
SUPERPLASTICITY IN ELECTROPLATED COMPOSITES OF LEAD AND TIN 67-12 M17-83053
COATINGS, MICROSTRUCTURE
CHEMICALLY REACTIVE CRYSTAL DEFECTS IN ELECTRODEPOSITED NICKEL 67-01 M13-58235
COATINGS, NONDESTRUCTIVE TESTING
STRIP THICKNESS MEASUREMENT WITH RADIONUCLIDES 67-03 M19-65625
COATINGS, OXIDATION
OXIDATION RESISTANT COATINGS FOR REFRACTORY METALS IN AIRCRAFT GAS TURBINE ENGINES 67-12 M12-82078
PROTECTIVE COATINGS FOR REFRACTORY METALS 67-12 M12-82927
OXIDATION OF NIOBIUM AND NIOBIUM COATED WITH ALUMINUM IN STEAM-AIR MIXTURES 67-12 M18-83219
COATINGS, PHASES /STATE OF MATTER/
STRUCTURE OF COPPER-TIN GALVANIC DEPOSITS 67-11 M12-81288
THE FORMATION OF FE-NI AND FE-NI-CO SOLID SOLUTIONS AT THE STEEL-ENAMEL INTERFACE 67-11 M13-81379
COATINGS, PHYSICAL PROPERTIES
DETERMINING THE THERMAL CONDUCTIVITY COEFFICIENT AND RADIATION CAPACITY OF ALUMINUM OXIDE COVERINGS 67-04 M16-66873
PLASMA-SPRAYED DIELECTRIC COATINGS FOR HEAT SINKS IN ELECTRONIC PACKAGING 67-12 M12-81895
COATINGS, QUALITY CONTROL
A GUIDE TO SELECTION OF MINIMUM PLATING THICKNESS FOR QUALITY COATINGS 67-11 M01-81196
TESTING GALVANIC COATINGS BY RADIOCHEMICAL METHOD 67-12 M19-82935
COATINGS, REACTIONS /CHEMICAL/
FORMATION AND DEGRADATION MECHANISMS OF ALUMINIDE COATINGS ON NICKEL-BASE SUPERALLOYS 67-08 M14-75978
COATINGS, ROLLING
PILOT LINE SUCCESS INDICATES FEASIBILITY OF NEW DIFFUSION-BONDING SYSTEM FOR NICKEL COATING OF STEEL 67-12 M12-82881
COATINGS, STRESS EFFECTS
NOTES ON INTERNAL STRESSES IN COATINGS 67-06 M01-71732
COATINGS, TEXTURE
EFFECT OF HEAT TREATMENT ON TEXTURE OF TI ALLOYS AND ON THE CR AND NI ELECTRO-DEPOSITED ON THEM 67-03 M14-65591
COATINGS, THERMAL PROPERTIES
THERMAL STABILITY OF CERAMIC COATINGS DEPOSITED ON METALS 67-02 M12-59607
THE HIGH TEMPERATURE EVALUATION OF AEROSPACE MATERIALS 67-03 M17-65935
THEORETICAL DETERMINATION OF OPTIMUM THICKNESS OF COATINGS OF PERMANENT MOLDS IN CENTRIFUGAL CASTING OF PIPE BILLETS 67-08 M06-74591
COATINGS, THERMAL STABILITY
INFLUENCE OF CARBURIZING AND CHROMIZING ON INTERACTION BETWEEN IRON AND LIQUID ZN 67-02 M18-61992
COATINGS, THICKNESS
COMPARATIVE INVESTIGATION OF METHODS TO DETERMINE THICKNESS OF ZINC COATS ON STEEL WIRE 67-09 M12-77194
STUDIES ON THICKNESS OF HOT DIPPED ZINC COATING. PT. 2 67-10 M12-79605
COATINGS, WEAR
THIN-WALLED CHANNELS OF A LINEAR INDUCTION PUMP FOR THE TRANSFER OF MOLTEN ALUMINUM 67-06 M03-70374
COATINGS, WELDING
WELDING OF PRESERVED ROLLED STEEL 67-11 M11-80871
THE WELDING OF COATED SHEETS WITH THE CAPACITANCE-DISCHARGE METHOD AND COAXIAL ELECTRODE ARRANGEMENT 67-11 M11-81074
THE WELDING OF PLASTIC-COATED STEEL SHEET 67-12 M11-83072
LEAD PHOSPHATE PROTECTS STEEL AND PRESERVES ITS WELDABILITY 67-12 M12-82646
SENDZIMIR-GALVANIZED SHEET. USE AND APPLICATIONS 67-12 M12-83131
COAXIAL CABLES
CALCULATING A CYLINDRICALLY SHIELDED SYSTEM FOR INDUCTION HEATING 67-01 M10-58196
COAXIAL CABLES, INSULATION
COAXIALS WITH INJECTION-MOULDED INSULATION

COAXIAL CABLES
67-10 M06-78574
COAXIAL CABLES, METAL WORKING
IMPROVED PROCESS FOR DRAWING, CLEANING AND PRECISION WINDING OF COAXIAL CENTERWIRE
67-05 M07-68672
COBALT
COBALT AND COBALT ALLOYS 67-05 M14-68344
THE COBALT METAL MARKET 67-09 M20-76664
COBALT, ACTIVITY /CHEMICAL/
THE EFFECT OF SULFUR ON THE ACTIVITY OF OXYGEN IN IRON, COBALT AND NICKEL MELTS AT 1600 C
67-08 M14-75659
COBALT, ALLOYING ADDITIVE
EFFECT OF PARTICLES IN CU-3.23 WT PER CENT CO ALLOY ON THE ANNEALING BEHAVIOR AFTER HEAVY ROLLING
67-01 M14-57415
ON THE INFLUENCE OF NOTCHES AND HEAT TREATMENT ON THE FATIGUE STRENGTH OF TUNGSTEN CARBIDE-COBALT ALLOYS 67-02 M17-60121
THE INFLUENCE OF TEMPERATURE AND ANNEALING TIME ON MAGNETIC PROPERTIES OF DILUTED ALLOYS CO-CU
67-03 M14-65444
THE MARVEL OF MARAGING SOME ASPECTS OF 18NI-CO-MO STEEL 67-04 M14-66192
THE PRELIMINARY RESULTS OF STUDYING TRANSFORMATION PHENOMENA IN NICKEL-COBALT ALLOYS
67-04 M14-67756
EFFECT OF COBALT ON BRITTLE FRACTURE SUSCEPTIBILITY OF IRON 67-04 M17-66489
ELECTRICAL RESISTIVITY STUDIES OF CHROMIUM-RICH CHROMIUM-COBALT ALLOYS 67-05 M15-69522
SIGMA FORMATION IN NICKEL-RICH NICKEL-COBALT-CHROMIUM-ALUMINUM-TITANIUM-CARBON ALLOYS AT 1650 F 67-06 M14-69932
THE SCALING OF BINARY ALLOYS OF TITANIUM CONTAINING 5 WT. PER CENT OF ALUMINIUM, COPPER, OR COBALT IN CARBON DIOXIDE AT 1000 C 67-06 M18-70794
EFFECT OF COBALT ON THE TEMPERING CHARACTERISTICS OF MEDIUM-CARBON STEELS 67-07 M10-73877
TRANSFORMATIONS IN FE-CO ALLOYS
67-07 M14-74172
THE PRODUCTION OF COLUMNAR STRUCTURES IN HIGH-COBALT HIGH-TITANIUM PERMANENT MAGNET ALLOYS
67-08 M14-75985
MODIFIED 12 PER CENT CHROMIUM STEELS
67-09 M01-77678
DEVELOPMENT AND INVESTIGATION OF HEAT RESISTANT STEELS ALLOYED WITH COBALT 67-10 M17-78945
REACTION OF TUNGSTEN-COBALT ALLOYS WITH OXYGEN AT 1000 AND 1100 K 67-10 M18-78637
METHOD OF PREPARING LEAD-BASE ALLOYS WITH ALLOYING SULFUR AND COBALT ADDITIVES FOR THE MANUFACTURE OF INSOLUBLE ANODES 67-10 M18-79810
ORDERED PT3-CO ALLOY STUDIED IN THE FIELD-ION MICROSCOPE 67-12 M14-82365
ELECTRICAL RESISTIVITY OF CHROMIUM ALLOYS
67-12 M15-81766
THERMAL RESEARCH INTO THE MAGNETOSTRICTION OF AN FECO ALLOY 67-12 M15-83305
THE EFFECT OF COBALT, NICKEL AND COPPER ON THE STRUCTURE AND THE MECHANICAL PROPERTIES OF SPHEROIDAL GRAPHITE CAST IRON
67-12 M17-82919
COBALT, ATOMIC PROPERTIES
NMR AND MAGNETIC SUSCEPTIBILITY OF CO MAGNETIC IMPURITIES IN TRANSITION METAL HOSTS
67-07 M16-73528
OPTICAL AND MAGNETO-OPTICAL PROPERTIES OF IRON AND COBALT 67-08 M15-74631
COBALT, BAND THEORY
NUCLEAR MAGNETIC RELAXATION IN FERROMAGNETIC TRANSITION METALS 67-02 M16-59478
STUDY OF THE STRUCTURE OF THE UNOCCUPIED PORTION OF THE 3D-BAND IN IRON AND COBALT BY X-RAY K-SPECTRA OF ABSORPTION 67-02 M16-62094
COBALT, BINARY SYSTEMS
PROPERTIES OF THE FREE ENERGY ASSOCIATED WITH THE INTERDIFFUSION OF TWO SOLIDS 67-04 M15-66064
OBLIQUE-INCIDENCE ANISOTROPY AND DOMAIN CONFIGURATION IN NI-CO FILMS 67-05 M15-69762
CONTRIBUTION TO THE STUDY OF GRAIN ORIENTATION IN COLUMNS OF POWDER AND SINTERED PARTS UNDER THE EFFECT OF INTERMEDIATE LAYERS
67-06 M09-71754
THE CONSTITUTION OF NB-CO ALLOYS
67-08 M13-75293
TUNGSTEN-COBALT SYSTEM FOR COMPOSITIONS TO 85 ATOMIC PER CENT COBALT 67-08 M13-75309
PHASE RELATIONS AND INTERMETALLIC COMPOUNDS IN THE LANTHANUM-COBALT SYSTEM 67-11 M14-80306
THE MAGNETOCRYSTALLINE ANISOTROPY OF NI-CO FERRITES
67-11 M15-80615
X-RAY EXAMINATION OF THE TA-CO SYSTEM
67-12 M13-83143
COBALT, CEMENTED CARBIDES
A STUDY ON THE CO PHASE COMPOSITION CONTAINED IN WC-CO-BASE CEMENTED CARBIDES 67-01 M14-58333
COBALT, CERMETS
THE STRUCTURE OF SINTERED TUNGSTEN CARBIDE-COBALT ALLOYS 67-01 M14-58341
EFFECT OF PLASTIC DEFORMATION ON THE PHYSICOMECHANICAL PROPERTIES OF TUNGSTEN CARBIDE-COBALT HARD ALLOYS 67-02 M09-61793
THE INFLUENCE OF THE AVERAGE GRAIN SIZE OF WC AND THE CONTENT OF THE BINDING COBALT PHASE ON X-RAY MEASUREMENTS OF MACROSTRESSES IN SINTERED CARBIDES OF THE SYSTEM WC-CO 67-07 M17-73464
COBALT, CHEMICAL ANALYSIS
MICROSCOPIC AMOUNTS OF COBALT AND MANGANESE IN ELECTROLYTICALLY PRODUCED IRON DETERMINED BY NEUTRON-ACTIVATION ANALYSIS 67-09 M19-76707
COBALT, COATING
PRODUCING A LAYER OF NICKEL AND COBALT BORIDES ON THE SURFACE OF IRON 67-03 M12-65973
COBALT, COATINGS
ELECTRODEPOSITION FROM THE PYROPHOSPHATE BATH--TERNARY ALLOYS OF NICKEL-COBALT-IRON
67-03 M12-65043
PROPERTIES OF PLATED FILMS OF ELECTROLESS COBALT
67-05 M12-69001
EFFECTS OF BORIC ACID IN ELECTROLESS PLATING BATH
67-07 M12-72605
RECORDING CHARACTERISTICS OF THICK COBALT-ZINC-PHOSPHORUS FILMS 67-07 M12-74126
INTERNAL STRESS IN ELECTRODEPOSITS
67-07 M17-73626
COBALT --3---AMINO COMPLEXES AS BRIGHTENING ADDITIVES IN COBALT BATHS 67-08 M12-75682
ELECTROLYTIC EXTRACTION OF CO-ZN ALLOYS FROM A PHOSPHATE BATH 67-10 M12-79396
THERMODYNAMIC CHARACTERISTICS OF ELECTROLESS CHROMIUM PLATING 67-12 M12-83085
COBALT, COMPOSITE MATERIALS
THE CHARACTER OF REACTION OF TITANIUM NITRIDE WITH THE IRON GROUP METALS, MOLYBDENUM, AND TUNGSTEN 67-02 M09-62213
COBALT, CORROSION
INFLUENCE OF CONCENTRATED NEUTRAL SALT SOLUTIONS ON THE CORROSION OF METALS 67-02 M18-61763
OXIDATION OF COBALT BETWEEN 800 AND 1100
67-04 M18-66190
ATMOSPHERIC CORROSION OF COBALT POWDER
67-04 M18-66251
ATMOSPHERIC CORROSION OF COBALT POWDER
67-10 M18-78983
COBALT, CRYSTAL GROWTH
THE GROWING OF SINGLE-CRYSTAL LAYERS OF IRON, NICKEL, COBALT AND THEIR ALLOYS
67-02 M14-61513
COBALT, CRYSTAL LATTICES
X-RAY DIFFRACTION ANALYSIS OF STACKING FAULTS IN CONDENSED COBALT FILMS 67-02 M13-61676
PRODUCTION OF FE-CO ALLOYS IN HIGHLY-DISPERSED STATE AND STUDY OF THEIR CRYSTAL STRUCTURE
67-04 M14-67378
CONSIDERATIONS CONCERNING THE RECRYSTALLIZATION AND POLYGONIZATION OF HIGH-PURITY AND IMPURE METALS
67-05 M14-69845
BASAL AND PRISMATIC SLIP IN HCP CRYSTALS
67-06 M13-71974
THE DEPENDENCE OF THE CALCULATED ELASTIC CONSTANTS ON THE C..A RATIO FOR HEXAGONAL CLOSE-PACKED STRUCTURE METALS 67-06 M17-71498
DETERMINATION OF THE LATTICE PARAMETERS OF COBALT AND CHROMIUM IN THE TEMPERATURE RANGE FROM 20 TO -180 C 67-07 M13-74024
EXPERIMENTAL STUDIES ON DYNAMIC MULTIPLE REFLECTIONS OBSERVED IN THIN FILMS OF METALS AND ALLOYS BY ELECTRON DIFFRACTION
67-08 M13-74414
FIELD EMISSION OF CHROMIUM, COBALT AND HAFNIUM
67-09 M13-76452
SUBSTRUCTURES IN OXIDE SCALES ON NICKEL, COBALT, AND NICKEL-COBALT ALLOYS 67-09 M13-76620
STRUCTURE AND THERMAL EXPANSION OF SMALL COBALT PARTICLES 67-10 M13-79245
DEFINITION OF THE CRYSTALLINE PARAMETERS AND THE INTENSITY OF THE DEBYE-SCHERRER RAYS OF CUBIC AND

HEXAGONAL CO 67-10 M13-79707
X-RAY K ABSORPTION EDGES OF ALLOYS. PT. 1. CORRELATION TO BAND MODELS 67-11 M16-80118
COBALT, DEPOSITION
ELECTRODEPOSITION OF COPPER-COBALT ALLOYS FROM THE PYROPHOSPHATE BATH 67-06 M12-70641
COBALT, DIFFUSION
CALCULATION OF DIFFUSION PARAMETERS 67-02 M14-61918
OBSERVATION AND QUANTITATIVE MEASUREMENTS OF GRAIN BOUNDARY DIFFUSION PHENOMENA IN IRON AND COBALT 67-04 M14-67562
DIFFUSION OF COBALT IN CU3AU ALLOY 67-07 M14-73313
INVESTIGATION OF THE KINETICS OF THE SOLUBILITY OF HYDROGEN IN FE, NI, CO AND CU 67-08 M14-75662
RESEARCH INTO THE DIFFUSION OF COBALT IN STEEL 67-10 M14-79658
VARIATION OF ATOMIC MOBILITY IN METALS AT ROOM TEMPERATURE UNDER THE EFFECT OF IONIZING RADIATIONS 67-12 M16-83358
COBALT, ELECTRICAL PROPERTIES
THE MAGNETORESISTANCE EFFECT AND THE ELECTRIC RESISTANCE OF SINGLE CRYSTALS OF COBALT 67-02 M15-60275
COBALT, EXTRACTION
A HYPOCHLORIDE METHOD OF TREATING DUST WASTES FROM CERMET TOOL SHARPENING 67-01 M02-57310
AUTOCLAVE LEACHING OF NICKEL MATTES 67-02 M03-59191
METHOD OF PREPARING NICKEL AND COBALT FROM HYDRATED SILICEOUS ORES 67-02 M03-59591
ELECTRICAL EXTRACTION OF COBALT FROM SULFATE SOLUTIONS 67-02 M03-61606
PURIFYING NICKEL ELECTROLYTES OF COBALT BY AMINE EXTRACTION 67-02 M03-62045
THE SULFURIC ACID METHOD OF COMPLEX PROCESSING LOCAL SERPENTINES 67-05 M02-69302
CHLORIDE TREATMENT FOR PROCESSING PULVERIZED HARD-ALLOY TAILINGS 67-06 M03-70732
EXTRACTION OF LEAD AND ZINC FROM AQUEOUS COBALT SOLUTIONS BY MEANS OF IONITES 67-08 M03-75205
THE RECOVERY OF COBALT BY THE SOLUBLE COBALTIC AMMINE PROCESS 67-09 M03-76740
MODIFIED TECHNIQUES OF SEPARATING COBALT FROM NICKEL 67-09 M03-76803
PRECIPITATION OF COBALT WITH POTASSIUM XANTHATE IN SOLUTIONS WITH A HIGH IRON CONTENT 67-12 M03-82147
REMOVAL OF COBALT FROM ZINC ELECTROLYTES BY EXTRACTION 67-12 M03-82488
ON THE AUTOCLAVE SALT LEACHING OF COBALT-BEARING SEMIFINISHED PRODUCTS FROM THE NICKEL INDUSTRY 67-12 M03-83317
HYDROMETALLURGICAL METHOD OF TREATING POWDER WASTE FROM HARD ALLOYS 67-12 M03-83325
COBALT, HARDENING
DISPERSION-STRENGTHENED COBALT ALLOYS 67-01 M14-58646
COBALT, IMPURITIES
THE APPLICATION OF CRYSTAL FIELD THEORY TO THE ELECTRICAL PROPERTIES OF CO IMPURITIES IN GAP 67-04 M16-66757
COBALT, INTERMETALLICS
THE CRYSTAL STRUCTURES OF THE RARE-EARTH COMPOUNDS OF THE FORM R2NI17, R2CO17 AND R2FE17 67-01 M13-58536
MAGNETIC PROPERTIES OF THE INTERMETALLIC COMPOUNDS OF COBALT WITH THE RARE EARTH METALS AND YTTRIUM 67-01 M15-58648
MAGNETOCRYSTALLINE ANISOTROPY OF YCO5 AND Y2CO17 67-01 M15-58656
RARE EARTH COBALT COMPOUNDS WITH THE A2B17 STRUCTURE 67-02 M13-59097
NUCLEAR MAGNETIC RESONANCE OF CUBIC FERROMAGNETIC COMPOUNDS CO2MNSN AND COMNSB 67-02 M16-59472
THE REFLECTANCE OF THE INTERMETALLIC COMPOUNDS NIAL AND COAL 67-03 M15-65640
MAGNETIC PROPERTIES OF THE INTERMETALLIC COMPOUNDS OF COBALT WITH THE RARE EARTH METALS AND YTTRIUM 67-04 M15-66191
MAGNETIZING FINELY-DISPERSED PARTICLES OF FE-CO ALLOY 67-04 M15-66480
EFFECT OF SPECIMEN SIZE ON FORMATION OF MAGNETIC PROPERTIES IN CO-PT ALLOY 67-04 M15-66483
IMPROVEMENT OF HEAT-RESISTING COBALT-BASE ALLOYS BY PRECIPITATION HARDENING 67-06 M14-70597
DOMAIN STRUCTURE OF ORDERED EQUIATOMIC PT-CO OBSERVED IN THE FIELD-ION MICROSCOPE 67-07 M14-72629
MAGNETOCRYSTALLINE ANISOTROPY OF TWO YTTRIUM-COBALT COMPOUNDS 67-07 M15-73583
MAGNETIC STRUCTURE OF INTERMETALLIC COMPOUND PRCO2 67-09 M15-77971
THE CRYSTAL STRUCTURE OF HO4CO3 67-10 M13-79685
NEUTRON DIFFRACTION ANALYSIS OF FE-CO ATOMIC FERROMAGNETIC SUPERLATTICES 67-10 M13-79916
COBALT, INTERNAL FRICTION
INTERNAL FRICTION IN COBALT IN THE AREA OF POLYMORPHOUS TRANSFORMATION 67-01 M17-57185
COBALT, MACHINING
THERMAL COEFFICIENTS. A PROPOSED MACHINABILITY INDEX 67-12 M08-82949.
COBALT, MAGNETIC PROPERTIES
MAGNETIC AFTER-EFFECT OF THE REVERSIBLE SUSCEPTIBILITY OF COBALT 67-01 M15-57582
MAGNETIC DOMAIN STRUCTURE OF THIN UNIAXIAL CRYSTALS 67-02 M15-60804
THE TEMPERATURE DEPENDENCE OF THE MAGNETIC DOMAIN STRUCTURE IN THIN COBALT CRYSTALS 67-02 M15-60805
INFLUENCE OF AN EXTERNAL MAGNETIC FIELD ON DOMAIN BOUNDARIES. PT. 1. FLAT 180 DEGREE DOMAIN BOUNDARY IN A MAGNETICALLY UNIAXED FERROMAGNETIC 67-02 M15-61158
NUCLEATION AND FORMATION OF A DOMAIN STRUCTURE IN MAGNETICALLY UNIAXED FERROMAGNETICS. PT. 1 67-02 M15-61160
MAGNETIC PROPERTIES OF SINGLE-CRYSTAL LAYERS OF FE, NI, CO AND THEIR ALLOYS 67-02 M15-61514
OBLIQUE-INCIDENCE ANISOTROPY IN COBALT FILMS 67-02 M15-61523
MEASURING THE LENGTH OF REMAGNETIZATION PULSES 67-02 M15-61681
THEORY OF COERCIVE FIELD STRENGTH OF HEXAGONAL COBALT SINGLE CRYSTALS 67-02 M15-61821
EPITAXIAL FILMS OF IRON, NICKEL AND COBALT 67-02 M15-62078
MAGNETIC ANISOTROPY IN COBALT FERROMAGNETIC THIN FILMS 67-04 M15-66815
SPIN-ORBITAL INTERACTION AND MAGNETIC-OPTICAL KERR EFFECT IN FERROMAGNETIC METALS 67-04 M16-67387
INTERNAL FIELDS AT NUCLEI OF SEVERAL IMPURITIES IN FERROMAGNETIC FE, CO AND NI ALLOYS. PT. 2 67-05 M16-69765
CALORIMETRIC DETECTION OF NMR IN FERROMAGNETS 67-07 M15-72651
FORCED MAGNETOSTRICTION OF NICKEL, COBALT, AND IRON AT 4.2 K 67-07 M15-73561
FERROMAGNETIC RESONANCE IN COBALT SINGLE CRYSTALS 67-07 M15-73702
MAGNETORESISTANCE EFFECT AND ELECTRIC RESISTANCE OF SINGLE CRYSTALS OF COBALT 67-08 M15-74406
FERROMAGNETIC RESONANCE IN SMALL PARTICLES OF NICKEL, COBALT AND IRON 67-08 M15-74636
MAGNETIC ANISOTROPY OF THIN FILMS OF COBALT AND FE-CO-NI ALLOYS 67-09 M15-77787
EFFECT OF STRUCTURE AND PHASE COMPOSITION ON THE COERCIVE FORCE OF CONDENSED COBALT FILMS 67-10 M15-79839
FINE MAGNETIC DOMAIN STRUCTURES OF IRON, NICKEL AND COBALT FILMS 67-10 M15-79840
THE INITIAL SUSCEPTIBILITY ABOVE AND THE SPONTANEOUS MAGNETIZATION UNDER THE CURIE TEMPERATURE OF FE, CO AND NI 67-11 M15-80807
THERMOMAGNETIC STUDIES OF THE MAGNETOCALORIC EFFECT OF COBALT NEAR THE CURIE POINT 67-12 M15-82222
THE DOMAIN STRUCTURE OF COBALT AND MAGNETOPLUMBITE CRYSTALS IN THE RESIDUALLY MAGNETIZED AND DEMAGNETIZED STATES 67-12 M15-83364
COBALT, MECHANICAL PROPERTIES
PRODUCTION AND MECHANICAL PROPERTIES OF PURE COBALT AND COBALT ALLOYS 67-01 M17-58440
ACTIVATION ENERGY OF THE TEMPERATURE BACKGROUND OF INTERNAL FRICTION 67-04 M17-66497
THE THERMAL EXPANSION AND THE TEMPERATURE CHANGE OF YOUNGS MODULUS OF SINGLE CRYSTALS OF HEXAGONAL COBALT 67-09 M17-77251
PLASTIC DEFORMATION OF HEXAGONAL COBALT SINGLE CRYSTALS 67-10 M17-78694
VISCOUS ULTRASONIC ATTENUATION IN METALS 67-11 M17-81092
COBALT, METAL POWDERS

COBALT
THE DETERMINATION OF RETAINED AUSTENITE BY X-RAY DIFFRACTION 67-04 M19-66294
COBALT, MICROSTRUCTURE
FIELD-ION MICROSCOPY OF COBALT 67-11 M13-81088
COBALT, OPTICAL PROPERTIES
OPTICAL DENSITIES OF STATES OF NICKEL, COBALT, AND PALLADIUM 67-02 M16-61595
COBALT, PHASE TRANSFORMATIONS
THE MARTENSITIC TRANSFORMATION IN COBALT 67-07 M14-72636
TEMPERATURE DEPENDENCE OF ELASTIC MODULI OF RUTHENIUM, RHENIUM, COBALT, DYSPROSIUM, AND ERBIUM., A STUDY OF THE ELASTIC ANISTROPY-PHASE TRANSFORMATION RELATIONSHIP 67-09 M17-77721
COBALT, PHYSICAL PROPERTIES
MAGNETIC ULTRASONIC ATTENUATION IN NICKEL AND COBALT 67-05 M15-69716
THE DEVELOPMENT OF A RHEOLOGICAL TEST INSTALLATION FOR DETERMINATION OF THE VISCOSITY OF METALLIC MELTS AND MEASUREMENT OF LIQUID FE, CO AND NI 67-10 M15-78341
COBALT, POWDER METALLURGY
MICROSTRUCTURE AND PROPERTIES OF TUNGSTEN-CARBIDE-COBALT HARD ALLOYS, THEIR MUTUAL EFFECTS AND THEIR DEPENDENCY ON THE INITIAL POWDERS 67-02 M09-59914
SINTERING METAL CARBIDES UNDER PRESSURE 67-06 M09-70317
INVESTIGATION OF PHASE COMPOSITION OF COBALT POWDERS CONDENSED IN AN INERT GAS MEDIUM 67-08 M09-75422
MATERIALS FOR ENGINEERS. PT. 12. ADVANCES IN POWDER METALLURGY 67-10 M09-79500
COBALT, PRECIPITATION
SIZE DISTRIBUTION FUNCTION OF PRECIPITATE CO PARTICLES IN CU-1 PER CENT CO SOLID SOLUTION 67-06 M13-71956
COBALT, REACTIONS /CHEMICAL/
POTENTIAL-PH-DIAGRAMS FOR AG, NI AND CO AT 100 C. WITH CONSIDERATION OF THE AMMINE COMPLEXES 67-02 M14-62248
INTERMETALLIC COMPOUND FORMATION BETWEEN COBALT AND ZINC IN MERCURY 67-08 M14-74677
COBALT, RECOVERY
REDUCTION ELECTROMELTING OF CONVERTER SLAGS FROM NICKEL PRODUCTION 67-02 M02-60562
COBALT, REFINING
LOSSES OF METALS WITH SLAG DURING CONVERTER BLOWING OF COPPER-NICKEL MATTE 67-04 M03-66964
CEMENTATION OF CO FROM ZINC SOLUTIONS 67-05 M03-68957
COBALT, ROLLING
THE PRODUCTION AND PROPERTIES OF DUCTILE COBALT STRIP 67-07 M09-73826
COBALT, SEPARATION
CONTINUOUS AUTOMATED METHOD FOR PRECIPITATION OF COBALT CONCENTRATE 67-07 M02-73411
COBALT, SINGLE CRYSTALS
MAGNETIC AFTER-EFFECT IN DEFORMED COBALT SINGLE CRYSTALS 67-12 M15-82010
THE RECOVERY SPECTRUM OF COBALT 67-12 M15-82011
INFLUENCE OF MAGNETOSTRICTION ON THE MAGNETIC DOMAIN STRUCTURE OF UNIAXIAL CRYSTALS, ESPECIALLY OF COBALT 67-12 M15-82012
COBALT, SOLUBILITY
EVIDENCE FOR INTERSTITIAL COBALT IN INDIUM BY MOSSBAUER SPECTROSCOPY 67-09 M14-77163
DETERMINING THE ABSOLUTE SOLUBILITY OF OXYGEN IN MOLTEN IRON, COBALT AND NICKEL 67-09 M14-77271
THE SOLUBILITY OF OXYGEN IN LIQUID COBALT AND NICKEL 67-10 M14-80076
COBALT, SURFACE PROPERTIES
THE EFFECT OF SURFACE TREATMENT ON THE QUANTITY OF ELECTRONS ABSORBED BY THE SPECIMEN 67-07 M15-73730
COBALT, TERNARY SYSTEMS
PERMANENT MAGNET CAPABLE OF COLD WORKING 67-01 M20-57518
THE TERNARY CR-CO-SI SYSTEM 67-02 M13-59888
X-RAY STRUCTURAL AND METALLOGRAPHIC INVESTIGATIONS OF NB-CO-C ALLOYS 67-02 M13-60741
PHASE EQUILIBRIA IN THE TERNARY SYSTEMS ZR-CO-C AND NB-FE-C 67-02 M13-61635
THE NATURE OF INTERACTION BETWEEN COMPONENTS IN THE GAMMA AND GAMMA PRIME PHASE OF THE NI-AL, NI-AL-CR, NI-AL-CO AND NI-AL-FE SYSTEMS 67-02 M14-58983
THE TERNARY SYSTEM PLUTONIUM-CERIUM-COBALT 67-03 M14-65087
DIFFUSION IN A TERNARY SUBSTITUTIONAL SYSTEM--APPLICATION TO THE COBALT-NICKEL-CHROMIUM SYSTEM 67-04 M14-67268
THE TAU PHASE IN THE CO-TI-B TERNARY SYSTEM 67-05 M13-68583
PHASE EQUILIBRIA IN CR-CO-B, MN-FE-B AND MN-CO-B SYSTEMS 67-06 M13-70215
INVESTIGATIONS OF THE SYSTEMS --MO, W-----FE, CO, NI---B 67-06 M13-70219
THE CO REGION OF THE TERNARY SYSTEM CO-MO-B 67-06 M13-70220
ON THE TERNARY PHASES UCOAL, UIRAL, AND UNIAL OF THE C22 --FE2P-- TYPE 67-06 M13-71623
EFFECT OF COBALT ON THE ACTIVITY OF SULFUR IN LIQUID IRON 67-06 M15-72071
CRYSTALLINE STRUCTURES OF COMPOUNDS ZR2NI2B6 AND ZR2CO2B6 67-07 M13-73481
LOW TEMPERATURE SPECIFIC HEAT OF BCC ALLOYS OF 3D TRANSITION ELEMENTS WITH 20 PER CENT AL 67-07 M15-73630
THE TITANIUM-RICH CORNER OF THE TERNARY TI-AL-CO SYSTEM 67-08 M13-75139
MEASUREMENT OF CARBON SOLUBILITY AND ELECTROCHEMICAL DETERMINATION OF MANGANESE ACTIVITY IN CARBON-SATURATED MN-CO-C AND MN-NI-C SYSTEMS AT 1320 C 67-09 M14-78014
DISTRIBUTION OF OXYGEN AND ALUMINUM BETWEEN METALLIC AND OXIDE PHASES IN THE CO-O-AL AND NI-O-AL SYSTEMS 67-11 M13-81154
STUDY OF DIFFUSION PHENOMENA IN THE TERNARY SYSTEM FE-NI-CO 67-11 M14-80147
NONMAGNETOSTRICTIVE COMPOSITIONS OF FE-NI-CO FILMS 67-11 M15-81097
PHASE EQUILIBRIUM IN THE TI-CO-AL SYSTEM 67-12 M13-82123
PHASE EQUILIBRIA IN THE TI-CO-SI SYSTEM 67-12 M13-82423
COBALT, THERMAL PROPERTIES
THE STRUCTURE AND THERMAL EXPANSION OF SMALL PARTICLES OF COBALT 67-12 M15-83307
COBALT, THERMODYNAMICS
HEAT CAPACITY OF COBALT IN THE VICINITY OF THE CURIE POINT 67-03 M15-65633
COBALT, THIN FILMS
THE INFLUENCE OF CERTAIN ADDITION AGENTS ON THE DEPOSITION RATE AND HARD MAGNETIC PROPERTIES OF ELECTROLESS COBALT 67-07 M12-74124
EVALUATION AND CONTROL OF THE MAGNETIC PROPERTIES OF CONTINUOUSLY PLATED ELECTROLESS NICKEL-COBALT-PHOSPHORUS MAGNETIC TAPE 67-07 M12-74125
EPITAXIAL GROWTH OF VACUUM-EVAPORATED CO ON NACL. PT. 1. CONDITIONS LEADING TO EPITAXY 67-12 M14-82007
EPITAXIAL GROWTH OF VACUUM-EVAPORATED CO ON NACL. PT. 2. ANALYSIS OF DIFFRACTION PATTERNS 67-12 M14-82008
COBALT, THIN FILMS,
EFFECT OF PH VARIATION ON THE MAGNETIC PROPERTIES OF ELECTROLESS COBALT-PHOSPHORUS THIN FILMS 67-07 M12-74123
COBALT, TRANSFORMATIONS /MATERIALS/
EFFECT OF MULTIPLE PHASE TRANSFORMATIONS AND PLASTIC DEFORMATION ON ALLOTROPIC TRANSFORMATIONS IN COBALT 67-05 M14-69647
COBALT, TRANSPORT PROPERTIES
MEASURING METHODS FOR MASS TRANSPORT 67-12 M16-82050
COBALT BASE ALLOYS
SEE ALSO STELLITE
NICKEL- AND COBALT-BASE ALLOYS 67-02 M01-61900
COBALT AND COBALT ALLOYS 67-05 M14-68344
COBALT BASE ALLOYS, ATOMIC STRUCTURE
X-RAY K ABSORPTION EDGES OF ALLOYS. PT. 2. NICKEL-COBALT AND NICKEL-IRON SOLID SOLUTIONS 67-11 M16-80119
COBALT BASE ALLOYS, BEARINGS
BEARING MATERIALS--A LOOK AT THE FUTURE 67-02 M20-60243
COBALT BASE ALLOYS, BONDING
EVALUATING ADHESIVES FOR HYDROFOILS 67-12 M12-82144
COBALT BASE ALLOYS, BRAZING
BRAZING BREAKTHROUGH JOINS REFRACTORY HONEYCOMB 67-06 M11-70569
LOW-VAPOR PRESSURE BRAZING ALLOYS FOR GRADUAL BRAZING IN TEMPERATURE RANGE FROM 450 TO 600 C

67-06 M11-71653

COBALT BASE ALLOYS, CASTING
SELECTING ALLOYS FOR INVESTMENT CAST PARTS
67-08 M06-74498
EFFECT OF PROCESS TECHNOLOGY ON THE PRECISION CASTING OF HEAT RESISTANT CASTING ALLOYS IN VACUUM
67-09 M06-77006
FAST PRODUCTION METHOD FOR ONE-OF-A-KIND CASTINGS
67-09 M06-78170
TYPES OF REFRACTORY ALLOYS AND THE METHODS BY WHICH THEY ARE PRODUCED
67-12 M20-82393

COBALT BASE ALLOYS, CASTINGS
ENGINEERED CASTINGS
67-03 M06-65496
NIMONIC, NOMOCAST AND OTHER HIGH-NICKEL ALLOYS FOR VERY HIGH TEMPERATURE USE
67-10 M20-78374
THE FIGHT AGAINST WEAR--INTERNAL COMBUSTION ENGINS
67-11 M20-81257

COBALT BASE ALLOYS, CHEMICAL ANALYSIS
COMPLETE SPECTROCHEMICAL CONTROL IN A DIVERSIFIED FOUNDRY
67-03 M19-65009

COBALT BASE ALLOYS, COATING
REVIEW OF RECENT DEVELOPMENTS NICKEL-BASE AND COBALT-BASE ALLOYS
67-04 M01-67468

COBALT BASE ALLOYS, COATINGS
ELECTRODEPOSITION OF ALLOYS FROM THE SULFAMATE BATH --NICKEL-CHROMIUM AND COBALT-ZINC
67-04 M12-67428
HARD SURFACING BY OXYGEN-ACETYLENE FLAME, AIDED BY NI AND CO BASE ALLOYS
67-05 M12-69123

COBALT BASE ALLOYS, COATINGS
THE FIGHT AGAINST WEAR. HARD SURFACING ALLOYS IN
THE FIGHT AGAINST WEAR. HARD SURFACING ALLOYS IN THE GLASS INDUSTRY
THE GLASS INDUSTRY
67-05 M20-69359
ELECTROLESS PLATING BATH FOR COBALT-NICKEL ALLOY ON CAUSTIC ALKALINE CITRATE BATH
67-06 M12-71292
REVIEW OF DEPOSITED METALLIC FILMS FOR COMPUTER APPLICATION
67-06 M12-71380
SCIENCE FOR ELECTROPLATERS. PT. 115. ALLOYS
67-07 M12-73629
THE FIGHT AGAINST WEAR. HARD-SURFACING ALLOYS IN THE AUTOMOBILE INDUSTRY
67-08 M12-76298
RESULTS OBTAINED WITH STELLITE FOR BLANKING, TRIMMING, AND SHEARING TOOLS
67-11 M08-81692
COBALT-CADMIUM ALLOY DEPOSITION FROM SULFATE BATHS
67-11 M12-80666

COBALT BASE ALLOYS, CORROSION
HOT CORROSION OF REFRACTORY ALLOYS BY COMBUSTION DEPOSITS CONTAINING LEAD
67-01 M18-57161
THE RATE AT WHICH NIOBIUM-IRON AND NIOBIUM-COBALT ALLOYS ARE OXIDIZED AT HIGH TEMPERATURES
67-04 M18-66036
HIGH TEMPERATURE CORROSION AND EVAPORATION OF HAYNES 25 AND HASTELLOY X-280
67-06 M18-70483
HOT CORROSION OF GAS TURBINE ALLOYS
67-06 M18-70491
CORROSION-RESISTANT ALLOYS IN CHLORIDE SOLUTIONS-- MATERIALS FOR SURGICAL IMPLANTS
67-06 M18-70694
DRY CORROSION OF COBALT-CHROMIUM ALLOYS AT HIGH TEMPERATURE--INFLUENCE OF TERNARY ADDITIONS
67-08 M18-75986
ANODIC BEHAVIOR OF IRON-COBALT ALLOYS AND COBALT METAL IN SULFURIC ACID SOLUTIONS
67-09 M18-78237
CORROSION OF METALS IN THE MOLTEN LIOH-LIF-H2O SYSTEM
67-11 M18-80827

COBALT BASE ALLOYS, CRYSTAL GROWTH
METASTABLE EVAPORATED THIN FILMS OF CU-AG AND CO-AU ALLOYS. PT. 1. OCCURRENCE AND MORPHOLOGY OF PHASES
67-06 M14-70407

COBALT BASE ALLOYS, CRYSTAL LATTICES
STACKING FAULT ENERGY OF FACE CENTERED CUBIC METALS ESTIMATED BY ELECTRON MICROSCOPIC ANALYSIS OF DIFFRACTION CONTRAST OF FAULTED DIPOLES
67-03 M13-65216
PRODUCTION OF FE-CO ALLOYS IN HIGHLY-DISPERSED STATE AND STUDY OF THEIR CRYSTAL STRUCTURE
67-04 M14-67378
INTERSECTING OF STACKING FAULTS
67-05 M13-69459
MEASUREMENTS OF STACKING-FAULT ENERGIES IN CO-NI AND CO-NI-CR ALLOYS
67-06 M13-72239
SUBSTRUCTURES IN OXIDE SCALES ON NICKEL, COBALT, AND NICKEL-COBALT ALLOYS
67-09 M13-76620

COBALT BASE ALLOYS, DEPOSITION
INFLUENCE OF THE ACIDITY OF SOLUTION ON COPRECIPITATION OF CO AND W IONS
67-04 M12-67294

COBALT BASE ALLOYS, DIFFUSION
EFFECT OF ORDERING ON THE HYDROGEN PERMEABILITY OF IRON ALLOYS WITH COBALT
67-04 M14-67660
STUDY OF MUTUAL DIFFUSION IN BINARY SYSTEMS FORMING A CONTINUOUS SERIES OF SOLID SOLUTIONS, BY LOCAL X-RAY SPECTRAL ANALYSIS. PT. 1
67-04 M14-67915

COBALT BASE ALLOYS, ELECTRICAL PROPERTIES
VARIATION IN THE ELECTRICAL RESISTIVITY OF IRON-COBALT-VANADIUM ALLOYS OF THE PERMENDUR TYPE
67-02 M15-61177
HIGH-TEMPERATURE ELECTRICAL MATERIALS
67-02 M20-60591

COBALT BASE ALLOYS, EXTRACTION
ELECTROLYTIC CODEPOSITION OF COBALT AND NICKEL FROM FLUORIDE-CHLORIDE ELECTROLYTE
67-11 M03-81465

COBALT BASE ALLOYS, FORGING
HOT DIE FORGING STUDY AIMED AT HIKING TITANIUM POTENTIAL
67-12 M07-81851
SUPERALLOY FORGINGS HOLD UP AS TEMPERATURES SOAR
67-12 M07-83174

COBALT BASE ALLOYS, FORMING
HYDROFORMING HIGH TEMPERATURE ALLOYS
67-10 M08-79532

COBALT BASE ALLOYS, HARDENING
DISPERSION-STRENGTHENED COBALT ALLOYS
67-01 M14-58646
CONTRIBUTION OF TRANSMISSION ELECTRON MICROSCOPY FOR THE STUDY OF ALLOYS
67-06 M13-71569
IMPROVEMENT OF HEAT-RESISTING COBALT-BASE ALLOYS BY PRECIPITATION HARDENING
67-06 M14-70597
PRECIPITATION-HARDENING BEHAVIOR AND MECHANICAL PROPERTIES OF HEAT-RESISTING ALLOYS CONTAINING UP TO 35 PER CENT COBALT
67-06 M17-70599

COBALT BASE ALLOYS, HEAT TREATMENT
NEW VACUUM FURNACE IMPROVES METAL PROPERTIES AND ELIMINATES FINISHING OPERATIONS
67-05 M10-69548
HEAT TREATMENT OF INVESTMENT-CAST STAINLESS STEELS AND HIGH TEMPERATURE ALLOYS
67-05 M10-69889
HEAT TREATMENT OF ROLLING BEARINGS--THE TORRINGTON PLANT AT DARLINGTON
67-08 M10-74739

COBALT BASE ALLOYS, MACHINING
TOOL SELECTION FOR TOUGH ALLOYS
67-03 M08-65492
THE ECONOMICS OF COLLECTING AND APPLYING MACHINING DATA TO CARBIDE TOOLS--AN ENGINEERING APPROACH
67-10 M08-79510
ELECTROCHEMICAL MACHINING AIRFOIL CONTOURS OF TURBINE BLADES
67-10 M08-79511
NEW NONCONVENTIONAL MACHINING PROCESS
67-10 M08-79514
SURFACE INTEGRITY IN MACHINING AND GRINDING
67-10 M08-79515
PRODUCIBILITY ASPECTS OF AEROSPACE PRODUCTS WITH REGARD TO MACHINABILITY
67-12 M08-82889

COBALT BASE ALLOYS, MAGNETIC PROPERTIES
GALVANO-MAGNETIC EFFECT OF COBALT IN THE EPSILON-GAMMA TRANSFORMATION RANGE
67-01 M15-57355
EFFECT OF THERMOMAGNETIC TREATMENT IN A TRANSVERSE FIELD ON THE MAGNETIC PROPERTIES OF ALLOYS OF THE SYSTEM FE-NI-CO
67-01 M15-57363
INTERACTIONS BETWEEN DOMAIN WALLS IN COUPLED FILMS
67-01 M15-57567
ROTATING HYSTERESIS IN PLATINUM-COBALT ALLOYS
67-01 M15-58060
PROBLEM OF DETERMINING THE MAGNETIC ANISOTROPY CONSTANTS OF A COBALT-PLATINUM ALLOY
67-01 M15-58061
CONTRIBUTION TO THE STUDY OF THE PRINCIPAL PROPERTIES OF SERMALLOY A1, AN ALNICO ALLOY WITH 38 PER CENT COBALT
67-01 M15-58647
MAGNETIC PROPERTIES OF ORDERED PT-CO
67-01 M15-58658
MAGNETOSTRICTION OF A CO-PT ALLOY
67-02 M15-59661
EFFECT OF PLASTIC DEFORMATION AND HEAT TREATMENT ON THE MAGNETIC ANISOTROPY OF A CO-PT ALLOY
67-02 M15-59662
THE INFLUENCE OF THE ADDITION OF VANADIUM ON THE CHARACTERISTIC OF NEW MAGNET ALLOY MALCOLLOY IN THE SYSTEM OF COBALT AND ALUMINUM
67-02 M15-59743
INVESTIGATION OF THE MAGNETIC PROPERTIES AND HARDNESS IN IRON-COBALT ALLOYS
67-02 M15-59919

COBALT BASE ALLOYS

EFFECT OF HEAT TREATMENT ON THE MAGNETIC PROPERTIES OF A COBALT-PLATINUM ALLOY 67-02 M15-59955
THE EFFECT OF THE ADDITION OF CHROMIUM ON THE PROPERTIES OF A NEW MAGNET ALLOY MALCOLLOY IN THE SYSTEM OF COBALT AND ALUMINUM 67-02 M15-60266
TESTING THE MAGNETIC PROPERTIES OF ELECTROLYTICALLY DEPOSITED CO ALLOYS 67-03 M15-65831
TEMPERATURE DEPENDENCE AND CRITICAL TEMPERATURE OF MAGNETIC DOMAIN STRUCTURES IN THIN FILMS 67-04 M15-67471
ON MAGNETIC PROPERTIES OF FE-CO FINE PARTICLE MAGNET 67-04 M15-67577
TEMPERATURE-MAGNETIC HYSTERESIS IN THE HIGH-COERCIVITY ALLOY CO-PT 67-05 M15-68259
NMR OF CO IN DILUTE CO-OS ALLOY 67-05 M16-69760
COBALT-PLATINUM ROTORS FOR SMALL SYNCHRONOUS DEVICES--ECONOMICS OF DESIGN AND CONSTRUCTION 67-05 M20-69715
DEVELOPMENT AND EVALUATION OF MAGNETIC AND ELECTRICAL MATERIALS CAPABLE OF OPERATING IN THE 800 TO 1600 F. TEMPERATURE RANGE 67-06 M01-71855
STUDY OF THE EFFECT OF TITANIUM ON ALNICO ALLOYS CONTAINING 34 PER CENT COBALT 67-06 M14-70598
PROCESS YIELDS CO-FE ALLOYS WITH SUPERIOR HIGH TEMPERATURE MAGNETIC PROPERTIES 67-06 M15-70012
FERROMAGNETIC RESONANCE IN A SERIES OF ALLOYS. PT. 2. BINARY ALLOYS OF COBALT WITH PLATINUM AND PALLADIUM, AND ONE IRON-PALLADIUM ALLOY 67-06 M15-72087
COBALT-PLATINUM ALLOY MAGNETS--EFFECT OF HIGH TEMPERATURES ON MAGNETIC PROPERTIES 67-06 M15-72266
MAGNETIC PROPERTIES AND HARDNESS OF IRON-COBALT ALLOYS 67-07 M15-72574
THE THEORY OF MAGNETIC HARDNESS OF PLATINUM COBALT 67-07 M15-72956
EFFECT OF ORDERING ON ROLLING-INDUCED MAGNETIC ANISOTROPY IN FECO-2V 67-07 M15-73504
A FAMILY OF NEW COBALT-BASE PERMANENT MAGNET MATERIALS 67-07 M15-73506
MAGNETIC PROPERTIES OF SPLAT-COOLED FE-CO-V ALLOYS 67-07 M15-73507
HIGH-TEMPERATURE MAGNETOSTRICTION IN ALLOYS 67-07 M15-73564
ANISOTROPY CONSTANT OF 50..50 NI-CO ALLOY FILMS 67-07 M15-73572
OBSERVATION OF DOMAIN STRUCTURE IN STRETCHED SPECIMENS OF HIGH-COERCIVITY VICALLOY ALLOY 67-08 M15-74634
EFFECT OF STRUCTURAL STATE ON THE MAGNETIC PROPERTIES OF A CO-PT ALLOY 67-08 M15-74648
X-RAY ANALYSIS OF STRUCTURE OF HIGH-COBALT ALLOY FOR PERMANENT MAGNETS IN THE 800 TO 1200 C TEMPERATURE RANGE 67-08 M15-75272
STRUCTURE AND MAGNETIC PROPERTIES OF CO-W AND CO-MO ALLOYS 67-09 M15-76697
MAGNETIC PROPERTIES OF ELECTROLESS COBALT BASED ALLOYS 67-09 M15-76998
THE MAGNETIC ANISOTROPY AND THE COERCIVE FORCE OF A PERMANENT MAGNET ALLOY, VICALLOY 67-09 M15-77255
HYPERFINE MAGNETIC FIELDS AT COBALT NUCLEI IN DILUTE POCO ALLOYS 67-09 M15-77969
THE EFFECT OF THE ADDITION OF TUNGSTEN ON THE PROPERTIES OF NEW MAGNET ALLOY--MALCOLLOY-- IN THE COBALT AND ALUMINUM SYSTEM 67-09 M15-77994
THE EFFECT OF THE ADDITION OF MANGANESE ON THE PROPERTIES OF NEW MAGNET ALLOY MALCOLLOY IN THE COBALT AND ALUMINUM SYSTEM 67-09 M15-77995
DEVELOPMENT AND EVALUATION OF MAGNETIC AND ELECTRICAL MATERIALS CAPABLE OF OPERATING IN THE 800 TO 1600 F. TEMPERATURE RANGE 67-10 M15-79200
THE EFFECT OF SURFACE ON THE PROPERTIES OF HIGHLY DISPERSED FERROMAGNETIC POWDERS 67-12 M15-82322
MAGNETIC ANISOTROPY OF IRON-COBALT ALLOYS 67-12 M15-82325
STUDIES OF MAGNETIC HARDNESS IN VICALLOY USING THE MOSSBAUER EFFECT 67-12 M15-83265

COBALT BASE ALLOYS, MECHANICAL PROPERTIES

COBALT ALLOYS IN PROCESS METALLURGY OPERATIONS 67-01 M01-57933
PRODUCTION AND MECHANICAL PROPERTIES OF PURE COBALT AND COBALT ALLOYS 67-01 M17-58440
STUDY OF MATERIAL FOR UNLUBRICATED ROLLING PARTS FOR HIGH-TEMPERATURE SERVICE 67-02 M17-61998
EFFECT OF COLD REDUCTION ON PRECIPITATION AND EMBRITTLEMENT OF A COBALT-BASE ALLOY --L-605-- 67-04 M17-66189
DEVELOPMENT OF NIOBIUM-CONTAINING COBALT-BASE AIR-CASTING ALLOYS FOR HIGH TEMPERATURES 67-05 M17-69564
UMCO-51 --HIGH TEMPERATURE ALLOY-- 67-06 M01-71458
REQUIREMENTS FOR METALLIC SURGICAL IMPLANTS AND PROSTHETIC DEVICES 67-06 M17-70121
NICKLE-AND COBALT-BASE ALLOYS 67-07 M01-74253
INFLUENCE OF SURFACE OXIDATION ON THE ELASTIC AFTEREFFECT OF MICROFOILS OF DIFFERENT ALLOYS 67-08 M17-74985
ELASTIC ANISOTROPIES AND TEMPERATURE CHANGE OF SINGLE CRYSTALS OF HIGH ELASTICITY ALLOY DIA-FLEX IN THE CO-FE-NI-CR-W-MO SYSTEM 67-09 M17-77996
GUIDE TO SELECTION OF SUPERALLOYS 67-10 M01-78629
NICKEL- AND COBALT-BASE ALLOYS 67-11 M01-80530
TECHNOLOGY OF ADVANCED CUTTING TOOL MATERIALS 67-11 M17-80294
BEHAVIOR OF ORDERING ALLOYS UNDER VARIOUS STRAIN CONDITIONS 67-12 M17-82343
AN X-RAY STUDY OF THE INFLUENCE OF STACKING FAULT ENERGY ON THE FATIGUE BEHAVIOR OF NICKEL-COBALT ALLOYS 67-12 M17-83069

COBALT BASE ALLOYS, METAL WORKING

RESISTANCE AND POSSIBILITY OF DEFORMATION OF ALLOYED CO DURING COLD MILLING AND DRAWING 67-10 M07-79071
AN ASSESSMENT OF ELECTROFORMING 67-10 M12-79438

COBALT BASE ALLOYS, MICROSTRUCTURE

THE CRYSTALLOGRAPHIC ANALYSIS OF GRAIN-BOUNDARY PRECIPITATION 67-02 M14-60631
NATURE OF STRUCTURAL CHANGES IN THE INITIAL STAGES OF DECOMPOSITION OF SUPERSATURATED SOLID SOLUTION OF TITANIUM IN COBALT 67-02 M14-62081
SHOWING THE CONCENTRATIONAL HETEROGENEITIES IN K40NKHM ALLOY 67-06 M13-70286
CRYSTALLOGRAPHY OF THE PRECIPITATION OF FERRITE ON AUSTENITE GRAIN BOUNDARIES IN A CO PLUS 20 PER CENT FE ALLOY 67-11 M13-81588

COBALT BASE ALLOYS, MOSSBAUER EFFECT

MOSSBAUER EFFECT IN THE INTERMETALLIC COMPOUNDS CO1.4SN AND NI1.4SN 67-06 M15-71368

COBALT BASE ALLOYS, OXIDATION

THE FORMATION OF SCALE ON IRON-COPPER AND IRON-COBALT ALLOYS HEATED IN AIR 67-05 M18-69256
OXIDATION RESISTANCE OF WC-NBC-CO ALLOYS IN AIR 67-12 M18-83561

COBALT BASE ALLOYS, PHASE TRANSFORMATIONS

ORDER-DISORDER TRANSFORMATION OF FE-CO ALLOYS IN FINE PARTICLES 67-02 M14-59751
STRUCTURE OF TICONAL ALLOY AFTER HEAT TREATMENT IN A MAGNETIC FIELD 67-02 M14-60067
ELECTRON MICROSCOPICAL INVESTIGATIONS ON THE AGE HARDENING OF SPRING ALLOYS BASED ON CONICRFE 67-02 M14-60879
THE INITIAL STAGES OF DISINTEGRATION OF CO-TA AND CO-NB SUPERSATURATED SOLID SOLUTIONS 67-05 M14-68858
METASTABLE EVAPORATED THIN FILMS OF CU-AG AND CO-AU ALLOYS. PT. 2. KINETICS OF THE TRANSFORMATIONS 67-06 M14-70408
CAUSES OF THE EFFECT OF PULSED MAGNETIC FIELD ON MARTENSITIC TRANSFORMATIONS IN STEELS AND ALLOYS 67-08 M14-74640
ON THE DAMPING MECHANISM OF ELASTIC VIBRATIONS IN PHASE TRANSFORMATIONS IN COPPER AND COBALT-BASE ALLOYS 67-10 M14-80086

COBALT BASE ALLOYS, PHASES /STATE OF MATTER/

ON AN AMORPHOUS AU-CO ALLOY FILM 67-02 M13-59074
X-RAY MICROGRAPHY STUDY OF SOME ALLOYS IN THE ZR-FE AND ZR-CO SYSTEMS 67-02 M13-59660
ELECTRON MICROSCOPE OBSERVATION OF GAMMA-PHASE PRECIPITATION IN VANADIUM PERMENDUR 67-02 M14-59072
ELECTRON MICROSCOPIC EXAMINATION OF HIGH-COERCIVE COBALT-PLATINUM ALLOYS 67-05 M14-69790
THE DETERMINATION OF THE EUTECTIC CONSTITUTION OF

BINARY ALLOYS, NI-C AND CO-C 67-10 M13-79895
COBALT BASE ALLOYS, PHYSICAL PROPERTIES
DEVELOPMENT AND EVALUATION OF MAGNETIC AND ELECTRICAL MATERIALS CAPABLE OF OPERATING IN THE 800 TO 1600 F. TEMPERATURE RANGE 67-03 M15-65901
SOLUBILITY OF HYDROGEN IN LIQUID IRON ALLOYS 67-06 M14-70583
COVANDUR --SOFT MAGNETIC ALLOY-- 67-11 M01-81250
DENSITIES AND SURFACE PROPERTIES OF IRON-COBALT-NICKEL MELTS AT 1550 C 67-11 M15-81449
COBALT BASE ALLOYS, POWDER METALLURGY
NONFERROUS METALS AND ALLOYS PRODUCED BY POWDER METALLURGY 67-01 M09-58374
THE EXTRUSION OF METAL POWDERS 67-07 M09-73867
ELECTROLYTICAL PRODUCTION OF COMPLEX METAL POWDER OF THE CO-NI SYSTEM 67-12 M09-82203
COBALT BASE ALLOYS, REFINING
THE ELECTRON BEAM MELTING OF SOFT MAGNETIC FERROUS MATERIALS 67-08 M04-74444
CONSUMABLE-ARC VACUUM MELTED STEEL FOR FORGINGS 67-09 M04-76506
TYPES OF REFRACTORY ALLOYS AND THE METHODS BY WHICH THEY ARE PRODUCED. PT. 2 67-12 M03-81922
COBALT BASE ALLOYS, SINGLE CRYSTALS
ENERGY OF MAGNETIC ANISOTROPY AND ITS RELATIONSHIP TO TEMPERATURE AND HEAT TREATMENT IN NI-CO ALLOY 67-08 M15-75257
COBALT BASE ALLOYS, SPECIFICATIONS
HIPERCO 50 --SOFT MAGNETIC ALLOY-- 67-04 M01-66324
COBALT BASE ALLOYS, THERMAL PROPERTIES
TINY PARTICLES TURN METALS INTO SUPERPERFORMERS 67-01 M01-58473
THE HIGH TEMPERATURE EVALUATION OF AEROSPACE MATERIALS 67-03 M17-65935
GEAR MATERIAL FOR OPERATION AT 1000 F 67-08 M17-74491
WHERE YOU CAN USE TODAYS SUPERALLOYS 67-10 M20-78630
COBALT BASE ALLOYS, THERMODYNAMICS
THERMODYNAMIC PROPERTIES OF COBALT ALLOYS 67-01 M15-57172
A THERMODYNAMIC STUDY OF SOLID IRON-GOLD AND COBALT-GOLD ALLOYS BY THE USE OF SOLID OXIDE ELECTROLYTES 67-08 M15-76208
THERMODYNAMIC PROPERTIES OF SOLID SOLUTIONS OF THE MANGANESE-COBALT SYSTEM 67-09 M15-77293
COBALT BASE ALLOYS, THIN FILMS
ELECTRODEPOSITION OF METALS IN ULTRASONIC FIELDS 67-04 M12-66279
ELECTRON MICROSCOPIC STUDIES ON ORIGINS OF MAGNETIZATION RIPPLES IN FERROMAGNETIC THIN FILMS 67-12 M15-81761
COBALT BASE ALLOYS, TRANSPORT PROPERTIES
TRANSPORT OF CARBON IN SOLID SOLUTIONS WITH IRON GROUP METALS BASE 67-06 M15-72372
COBALT BASE ALLOYS, WELDING
COLD WELDING OF TRANSISTOR HOUSINGS 67-06 M11-71655
COLD WELDING OF TRANSISTOR BODIES 67-10 M11-79623
COBALT BASE ALLOYS, X RAY ANALYSIS
QUALITATIVE X-RAY DIFFRACTION MICROANALYSIS. PT. 2 67-12 M19-82302
COBALT COMPOUNDS, AGENTS
COBALT --3-- AND CHROMIUM --3-- COMPLEX COMPOUNDS AS BRIGHTENERS IN CYANIDE ZINC BATHS 67-05 M12-68715
COBALT COMPOUNDS, ALLOYING ADDITIVE
USE OF COMPLEX COBALT --3---AMMINE COMPOUNDS AS LUSTRE ADDITIVES IN CADMIUM ELECTROPLATING BATHS 67-07 M12-73768
COBALT COMPOUNDS, ATOMIC PROPERTIES
RARE EARTH COBALT COMPOUNDS WITH THE AB3 STRUCTURE 67-12 M13-82967
COBALT COMPOUNDS, BENEFICIATION
PROCESSING ARSENIC-CONTAINING NICKEL-COBALT ORES 67-06 M02-71128
ON THE EFFECT OF THE COMPOSITION OF GAS PHASE ON THE PROCESS OF SULFATIZING ROASTING OF SULFIDE-COBALT CONCENTRATE 67-06 M02-72107
THERMODYNAMICS OF THE CHLORINATION OF IRON, COBALT, NICKEL AND COPPER SULFIDES 67-08 M02-76052
INVESTIGATION OF THE FLUIDIZED BED SULFATING ROASTING OF PYRITE-COBALT CONCENTRATES 67-12 M02-83019
COBALT COMPOUNDS, COATINGS
PHASE CHANGES IN ELECTROLYTIC CO-P DEPOSITES DURING HEAT TREATMENT 67-08 M14-74925
COBALT COMPOUNDS, INTERMETALLICS
ANGULAR VARIATION OF COERCIVE FORCE IN PERMANENT MAGNET MATERIALS 67-07 M15-73511
COBALT COMPOUNDS, MAGNETIC PROPERTIES
VALENCY STATE OF COBALT ATOMS IN COBALT MONOSILICIDE 67-02 M15-60537
MAGNETIC PROPERTIES OF COBALT AND BARIUM FERRITES 67-02 M18-62089
ARSENIDES OF THE TRANSITION METALS. PT. 8. SOME BINARY AND TERNARY GROUP 8 DIARSENIDES AND THEIR MAGNETIC AND ELECTRICAL PROPERTIES 67-03 M15-65945
TEMPERATURE DEPENDENCE OF THE INITIAL COMPLEX PERMEABILITY OF COO.6ZNO.4FE2O4 FERRITES OVER A WIDE RANGE OF FREQUENCIES 67-05 M15-69387
THE DOMAIN STRUCTURE OF COBALT FERRITE 67-06 M15-71755
EFFECT OF MAGNETIC ANNEALING ON THE MAGNETIZATION OF COBALT-FERRITE POWDERS 67-09 M15-76782
COBALT COMPOUNDS, REACTIONS /CHEMICAL/
ON THE KINETICS OF CHLORINATING CO3O4, FE2O3 AND COFE2O4 WITH GASEOUS CHLORINE 67-03 M03-65577
KINETICS OF THE REACTION OF IRON, NICKEL AND COBALT OXIDES WITH GRAPHITE 67-11 M14-81372
COBALT COMPOUNDS, REFINING
DECOPPERING CHLORIDE NICKEL AND COBALT ELECTROLYTES BY MEANS OF ION EXCHANGE 67-04 M03-67524
COBALT COMPOUNDS, SINGLE CRYSTALS
PREPARATION AND MAGNETIC PROPERTIES OF COBALT DISULFIDE 67-11 M15-81684
COBALT PLATING
PROPERTIES OF PLATED FILMS OF ELECTROLESS COBALT 67-05 M12-69001
EFFECTS OF PLATING CONDITION ON REDUCTION EFFICIENCIES OF ELECTROLESS COBALT PLATING BATHS 67-09 M12-76682
ELECTROPLATING OF COBALT AND COBALT ALLOYS--A REVIEW 67-09 M12-76994
ELECTROLESS COBALT PLATING WITH HYDRAZINE AS REDUCING AGENT. PT. 6. STUDIES ON ELECTROLESS PLATING OF COBALT AND ITS ALLOYS 67-12 M12-83510
CODES /STANDARDS/
SEE STANDARDS
COEFFICIENT OF EXPANSION
SEE THERMAL EXPANSION
COEFFICIENT OF FRICTION
SEE FRICTION
COEFFICIENT OF THERMAL EXPANSION
SEE THERMAL EXPANSION
COERCIVE FORCE
EFFECTS OF GASES ON THE PROPERTIES OF VAPOR-DEPOSITED NI-FE FILMS 67-01 M15-57113
EFFECT OF CRYSTALLITE SIZE ON COERCIVE FORCE OF THIN FERROMAGNETIC FILMS 67-01 M15-57119
COMPARISON OF MAGNETIC MEASUREMENTS AND THEORETICAL PREDICTIONS FOR NICKEL-IRON FILMS OVER A WIDE COMPOSITION RANGE 67-01 M15-57569
EFFECT OF THICKNESS ON THE COERCIVE FORCE OF THIN NICKEL FILMS 67-01 M15-58029
COERCIVE FORCE OF PLASTICALLY DEFORMED SILICON IRON CRYSTALS 67-01 M15-58030
INVESTIGATING MATERIALS OF LOW MAGNETIC PERMEABILITY 67-02 M15-58979
POROSITY AND COERCIVE FORCE IN EVAPORATED PERMALLOY THIN FILMS 67-02 M15-59063
MAGNETIC PROPERTIES OF GRAIN ORIENTED SILICON STEEL UNDER SINUSOIDAL EXCITING CURRENT 67-02 M15-59081
INVESTIGATING MATERIALS OF LOW MAGNETIC PERMEABILITY 67-02 M15-59625
ISOTHERMAL TREATMENT OF THE YUNDK24 ALLOY IN A MAGNETIC FIELD 67-02 M15-59635
EFFECT OF THERMOMAGNETIC TREATMENT ON INTERNAL FRICTION, SHEAR MODULUS AND MAGNETIC PROPERTIES OF 66-PERMALLOY 67-02 M15-59636
THE EFFECT OF ELASTIC STRESSES ON THE MAGNETIC PROPERTIES OF FERROMAGNETICS. PT. 1 67-02 M15-59675
IMPROVEMENT IN MAGNETIC PROPERTIES OF MNAL-B PERMANENT MAGNETS BY SWAGING WORKING 67-02 M15-59741
IMPROVING THE MAGNETIC PROPERTIES OF BARIUM FERRITE BY THE ADDITION OF BI2O3 67-02 M15-59742
INVESTIGATION OF THE MAGNETIC PROPERTIES AND

COERCIVE FORCE

HARDNESS IN IRON-COBALT ALLOYS 67-02 M15-59919
SUPERPARAMAGNETISM, CLASSICAL THEORY AND EXPERIMENTAL SITUATION 67-02 M15-61032
SOME MAGNETIC PROPERTIES OF DILUTED CU-CO ALLOYS 67-02 M15-61037
MAGNETIC PROPERTIES OF SINGLE-CRYSTAL LAYERS OF FE, NI, CO AND THEIR ALLOYS 67-02 M15-61514
THEORY OF COERCIVE FIELD STRENGTH OF HEXAGONAL COBALT SINGLE CRYSTALS 67-02 M15-61821
EFFECT OF THERMOMECHANICAL TREATMENT ON THE SPECIFIC LOSSES, COERCIVE FORCE AND MAGNETOSTRICTION OF STEEL E330 67-02 M15-61936
ANISOTROPY DISTRIBUTION AND NATURAL FERROMAGNETIC RESONANCE IN SINGLE-DOMAIN PARTICLES OF FE AND FE-CO ALLOY 67-02 M15-62072
RELATIONSHIP OF COERCIVE FORCE TO THICKNESS OF FERROMAGNETIC FILMS 67-02 M15-62073
MAGNETIC PROPERTIES OF COBALT AND BARIUM FERRITES 67-02 M18-62089
THE INFLUENCE OF TEMPERATURE AND ANNEALING TIME ON MAGNETIC PROPERTIES OF DILUTED ALLOYS CO-CU 67-03 M14-65444
TEMPERATURE AND DEFORMATION DEPENDENCE OF THE COERCIVE FIELD STRENGTH OF IRON SINGLE CRYSTALS. PT. 2 67-03 M15-65377
TESTING THE MAGNETIC PROPERTIES OF ELECTROLYTICALLY DEPOSITED CO ALLOYS 67-03 M15-65831
HEAT TREATMENT OF HIGH-COERCIVITY ALLOYS OF THE MAGNICO TYPE 67-04 M10-66379
RELATIONSHIP OF THE COERCIVITY OF THIN FERROMAGNETIC FILMS TO CERTAIN FACTORS 67-04 M15-66482
EFFECT OF SPECIMEN SIZE ON FORMATION OF MAGNETIC PROPERTIES IN CO-PT ALLOY 67-04 M15-66483
PHASE TRANSFORMATIONS IN COLD STRAINED IRON-MANGANESE ALLOYS 67-04 M15-66621
INTERNAL STRESS FIELDS IN DEFORMED SILICON IRON CRYSTALS 67-04 M15-67047
IN-SITU MEASUREMENTS OF MAGNETIC PROPERTIES IN VACUUM-DEPOSITED PERMALLOY FILMS 67-04 M15-67104
THE CHANGE OF MECHANICAL AND PHYSICAL PROPERTIES OF ALPHA-IRON DUE TO TENSION, COMPRESSION, TORSION AND ROLLING 67-04 M17-66195
ELECTRON MICROSCOPIC EXAMINATION OF HIGH-COERCIVE COBALT-PLATINUM ALLOYS 67-05 M14-69790
THERMOMAGNETIC TREATMENT OF 66-PERMALLOY AND SILICON IRON IN A ROTATING MAGNETIC FIELD 67-05 M15-68257
MULTILAYER THIN-FILM SYSTEMS 67-05 M15-68852
THE COERCIVE FORCE OF THIN MAGNETIC FILMS REMAGNETIZED IN THE PRESENCE OF A SUPERHIGH-FREQUENCY FIELD 67-05 M15-68859
DEFORMATION AND TEMPERATURE INFLUENCES ON MAGNETIC PROPERTIES OF NICKEL SINGLE CRYSTALS. PT. 1. DOMAIN WALL DISPLACEMENTS IN 110 AND 111 NICKEL SINGLE CRYSTALS 67-05 M15-69773
ON THE PROCESS OF REVERSAL OF MAGNETIZATION IN BARIUM FERRITE POWDERS 67-06 M15-71914
THE INFLUENCE OF CERTAIN ADDITION AGENTS ON THE DEPOSITION RATE AND HARD MAGNETIC PROPERTIES OF ELECTROLESS COBALT 67-07 M12-74124
RECORDING CHARACTERISTICS OF THICK COBALT-ZINC-PHOSPHORUS FILMS 67-07 M12-74126
MAGNETIC PROPERTIES AND HARDNESS OF IRON-COBALT ALLOYS 67-07 M15-72574
STRUCTURAL AND CHEMICAL ALTERATIONS OF DELTA FE2O3 AND THEIR EFFECT ON MAGNETIC PROPERTIES 67-07 M15-72824
ON THE COERCIVITY OF GAMMA FE2O3 PARTICLES 67-07 M15-73503
ANGULAR VARIATION OF COERCIVE FORCE IN PERMANENT MAGNET MATERIALS 67-07 M15-73511
MAGNETIC PROPERTIES AND ANNEALING BEHAVIOR OF ELECTRODEPOSITED NIFES THIN FILMS 67-07 M15-73596
PROPERTIES AND APPLICATION OF NEW SI MATERIALS WITH CUBICAL TEXTURE 67-07 M15-73812
THE APPLICATION OF SLFT MAGNETIC MATERIALS IN NUCLEAR ENGINEERING 67-07 M15-73814
CHANGE IN FORM OF DOMAIN STRUCTURE IN SINGLE CRYSTALS OF HIGH-COERCIVITY ALNICO ALLOY DURING MAGNETIC REVERSAL 67-08 M15-74635
EFFECT OF STRUCTURAL STATE ON THE MAGNETIC PROPERTIES OF A CO-PT ALLOY 67-08 M15-74648
MAGNETIC PROPERTIES AND STRUCTURE OF TRANSFORMER STEEL 67-08 M15-74999
THE THEORY OF SUSCEPTIBILITY AND COERCIVE FORCE OF MAGNETIC MATERIALS 67-08 M15-75247
EFFECT OF MECHANICAL STRESS ON MAGNETIC REVERSAL PROCESSES IN FERROMAGNETIC FILMS 67-08 M15-75255
X-RAY ANALYSIS OF STRUCTURE OF HIGH-COBALT ALLOY FOR PERMANENT MAGNETS IN THE 800 TO 1200 C TEMPERATURE RANGE 67-08 M15-75272
CONTRIBUTION TO THE TEMPERATURE DEPENDENCE OF THE MAGNETIC PROPERTIES OF PERMANENT MAGNET MATERIALS 67-08 M15-75987
ELECTROLESS PLATING VARIABLES AND COERCIVE FORCE OF NICKEL-COBALT-PHOSPHORUS FILMS 67-09 M12-76997
STRUCTURE AND MAGNETIC PROPERTIES OF CO-W AND CO-MO ALLOYS 67-09 M15-76697
MAGNETIC PROPERTIES OF CHEMICALLY DEPOSITED COBALT-IRON FILMS 67-09 M15-76996
MAGNETIC PROPERTIES OF ELECTROLESS COBALT BASED ALLOYS 67-09 M15-76998
THE MAGNETIC ANISOTROPY AND THE COERCIVE FORCE OF A PERMANENT MAGNET ALLOY, VICALLOY 67-09 M15-77255
EFFECT OF STACKING FAULTS AND TWINS ON THE COERCIVE FORCE OF THIN MAGNETIC FILMS 67-10 M15-79162
DEVELOPMENT AND EVALUATION OF MAGNETIC AND ELECTRICAL MATERIALS CAPABLE OF OPERATING IN THE 800 TO 1600 F. TEMPERATURE RANGE 67-10 M15-79200
EFFECT OF STRUCTURE AND PHASE COMPOSITION ON THE COERCIVE FORCE OF CONDENSED COBALT FILMS 67-10 M15-79839
HEAT TREATMENT OF HIGH-COERCIVITY ALLOYS OF THE MAGNICO TYPE 67-11 M10-80981
INFLUENCE OF DISLOCATION STRUCTURE ON COERCIVE FORCE OF SILICON IRON 67-11 M13-80740
COERCIVE FORCE AND ANISOTROPY FIELD OF MULTI-LAYER PERMALLOY FILMS 67-11 M15-81053
COERCIVITY MEASUREMENTS OF COLD ROLLED MO-PERMALLOY BY A-C AND D-C METHODS 67-11 M15-81098
NATURE OF THE CHANGE IN THE COERCIVE FORCE DURING DEFORMATION AND SUBSEQUENT TEMPERING OF CARBON STEELS 67-12 M15-82323

COERCIVE FORCE, ALLOYING EFFECTS

THE INFLUENCE OF THE ADDITION OF VANADIUM ON THE CHARACTERISTIC OF NEW MAGNET ALLOY MALCOLLOY IN THE SYSTEM OF COBALT AND ALUMINUM 67-02 M15-59743
ON THE REFINING EFFECT OF SI IN THE VACUUM MELTING OF 50NI-FE ALLOY AND ITS INFLUENCE ON THE MAGNETIC PROPERTIES 67-05 M15-69862
INFLUENCE OF CARBON IN MAGNICO ALLOYS 67-08 M14-74991
THE EFFECT OF THE ADDITION OF TUNGSTEN ON THE PROPERTIES OF NEW MAGNET ALLOY--MALCOLLOY-- IN THE COBALT AND ALUMINUM SYSTEM 67-09 M15-77994
THE EFFECT OF THE ADDITION OF MANGANESE ON THE PROPERTIES OF NEW MAGNET ALLOY MALCOLLOY IN THE COBALT AND ALUMINUM SYSTEM 67-09 M15-77995
EFFECT OF SLIGHT TITANIUM ADDITIONS ON THE PROPERTIES OF CRYSTAL-ORIENTED ALNICO ALLOYS 67-11 M15-80344

COERCIVE FORCE, COMPOSITION EFFECTS

VARIATIONS IN SOME PROPERTIES OF SINTERED TUNGSTEN CARBIDE-COBALT ALLOYS WITH PARTICLE SIZE AND BINDER COMPOSITION 67-01 M15-58743
THE EFFECT OF THE ADDITION OF CHROMIUM ON THE PROPERTIES OF A NEW MAGNET ALLOY MALCOLLOY IN THE SYSTEM OF COBALT AND ALUMINUM 67-02 M15-60266
EFFECT OF THE ADDITION OF VANADIUM ON THE PROPERTIES OF A NEW HIGH MAGNETIC PERMEABILITY ALLOY NIMALLOY IN THE SYSTEM OF NICKEL AND MANGANESE 67-02 M15-60267

COERCIVE FORCE, HEATING EFFECTS

MINOR LOOP LOSS PREDICTIONS IN DEVICES USING PERMANENT MAGNET MATERIALS 67-01 M15-58668
ON THE NATURE OF THE PROCESSES OCCURRING DURING THE TEMPERING OF QUENCHED LOW-CARBON STEEL 67-07 M10-72670
RECRYSTALLIZATION AND TEXTURE FORMATION IN VERY THIN ELECTRICAL STEEL STRIP 67-08 M14-75266
STRUCTURAL CHANGES IN HEAT RESISTANT 13CRMO 4 4 AND 10 CRMO 9 10 STEELS AFTER EXTENDED ANNEALING AT 550 TO 780 C 67-09 M14-77087
DETERMINATION OF THE OPTIMUM TEMPERING TREATMENT FOR A PERMANENT MAGNETIC ALLOY OF THE ALNICO 160

TYPE 67-09 M15-76703
CHANGES IN MAGNETIC PROPERTIES OF FE-AL-NI-CO-TI HIGH-COERCIVITY PERMANENT MAGNET ALLOYS DURING THE AGING PROCESS 67-09 M15-78208
HEAT TREATMENT OF CAST HIGH CARBON MULTIALLOYED ALLOY 67-12 M10-81720
COERCIVE FORCE, STRESS EFFECTS
THE EFFECT OF MAGNETIC TEXTURE ON THE PROCESSES OF MAGNETIC REVERSAL OF FERROMAGNETICS 67-02 M15-62076
COERCIVE FORCE, TEMPERATURE EFFECTS
TIME AND TEMPERATURE DEPENDENCE OF COERCIVITY OF ALNI A ALLOY 67-12 M15-82231
COERCIVITY
SEE COERCIVE FORCE
COEXTRUSION
SOME COEXTRUSION EXPERIMENTS OF ALUMINIUM CLADDED CERMETALLIC CORE RODS 67-04 M07-67246
A STUDY OF THE FABRICATION OF A FUEL ELEMENT FOR THE BR-2 REACTOR BY COEXTRUSION AND DRAWING 67-09 M07-78262
THE TECHNOLOGY OF COEXTRUSION IN PRODUCING URANIUM-ZIRCALOY TUBULAR FUEL ELEMENTS 67-12 M07-82806
COHERENCE
THE DISLOCATION MOTION IN ALLOYS WITH COHERENT, ORDERED, STRESSED PRECIPITATES 67-09 M14-76790
COHERENCE, STRESS EFFECTS
THE INFLUENCE OF DEFORMATION ON COHERENCE LENGTH, LATTICE DISTORTIONS AND STACKING FAULT PROBABILITY OF UNIAXIALLY STRAINED HOMOGENEOUS AND HETEROGENEOUS ALLOYS 67-02 M13-60876
COHERENT SCATTERING
STUDY OF THE FINE STRUCTURE OF VT15 ALLOY AFTER HIGH-TEMPERATURE STRAIN HARDENING 67-06 M13-72121
LATTICE DYNAMICS OF NICKEL 67-09 M16-77748
COHESION
EFFECTS OF ADSORPTION ON STRENGTH 67-03 M14-65343
THE COHESIVE ENERGY OF TIO2 --RUTILE-- 67-11 M16-81681
COHESIVE STRENGTH
SEE COHESION
COILING
DYNAMICS OF OPERATION OF COILER FOR HOT ROLLED STRIP 67-01 M07-57260
FIRST KRUPP/PLATZER PLANETARY ROLLING MILL IN OPERATION 67-07 M07-73330
CONTINUOUS MELTING, CASTING AND ROLLING OF COPPER ROD 67-09 M03-77918
THE IMPORTANCE OF HEAVY WIRE COILS IN THE PROCESSING OF WIRE 67-11 M07-80367
USE OF HEAVY COILS IN THE HEAT TREATMENT OF WIRE 67-11 M10-80366
COILS, ANNEALING
OPEN COIL ANNEALING OF STEEL SHEET FOR SINGLE-COAT VITREOUS ENAMEL 67-06 M07-70501
COILS, COATING
IT CHARTS, CONTROLS THICKNESS OF PAINT FILM AUTOMATICALLY IN COIL COATING 67-05 M19-69877
COILS, CUTTING
HUGE SHEARING LINE SPEEDS STEELCASE SHEETS 67-07 M08-73211
COILS, HEAT TREATMENT
AN APPARATUS FOR THE INDUCTION ANNEALING OF COPPER WIRE 67-04 M10-66101
SEMICONTINUOUS COIL ANNEALING FURNACES INCREASE ALUMINUM OUTPUT AND SURFACE QUALITY 67-08 M10-76176
FASTER COIL ANNEALING 67-10 M10-79499
COILS, MECHANICAL PROPERTIES
DEFORMATION OF THE ROTOR WINDING OF A TURBO ALTERNATOR. AN EXTREME EXAMPLE OF COPPER SHORTENING 67-08 M17-74501
THE DYNAMIC STABILITY OF TRANSFORMER WINDINGS MADE OF GRADE AE-1 ALUMINUM ALLOY 67-10 M20-78349
COILS, METAL FORMING
SWEDEN INSTALLS BRITISH COIL-COATING AND ROLL FORMING LINE 67-09 M08-76679
COILS, METAL WORKING
THE MANUFACTURE OF STRIP CONDUCTORS FOR POWER TRANSFORMERS 67-06 M20-71561
COILS, NONDESTRUCTIVE TESTING
ON-LINE ULTRASONIC INSPECTION OF COIL EDGES FOR ELECTRIC RESISTANCE WELDED PIPES USING A RESONANCE TRANSMISSION METHOD 67-08 M19-75805
COILS, ROLLING
MANUFACTURE OF ALUMINUM EVAPORATION COILS FOR REFRIGERATORS USING HOT CLADDING TECHNIQUES 67-07 M07-73037
COILS, TRANSFORMERS
THE MANUFACTURE OF STRIP CONDUCTORS FOR POWER TRANSFORMERS. PT. 2 67-06 M17-71414
COILS /CONTAINERS/
SEE CONTAINERS
COILS /REELS/
SEE REELS
COINING
COINING THIN-WALLED PIECES USING MOLTEN STEEL 67-02 M06-61237
HERF SHEARS EDGES CLEAN 67-02 M07-61006
STAMPING THINWALLED COMPONENTS FROM MOLTEN STEEL 67-04 M06-68098
MATERIALS FOR COINAGE 67-11 M20-80717
COKE
SEE ALSO METALLURGICAL COKE
REDUCTION OF IRON ORE IN FUEL-MELTING MATERIALS 67-04 M04-66610
THE FLOW RESISTANCE OF BLAST-FURNACE BURDENS 67-04 M04-67407
COMPARATIVE ASSESSMENT OF THE PRODUCTION PERFORMANCE OF BLAST FURNACES 67-07 M04-73110
COKE, CHEMICAL ANALYSIS
RADIOGRAPHIC DETERMINATION OF MOISTURE IN COKE--A FURTHER STEP IN THE RATIONALIZATION AND AUTOMATION OF BLAST FURNACE OPERATION 67-11 M19-80336
COKE, COMBUSTION
A STUDY OF COKE COMBUSTION ZONES IN A BLAST FURNACE ON THE BASIS OF ELECTRONION PHENOMENA 67-04 M04-66611
COKE, CONSUMPTION
FUEL INJECTION INTO THE BLAST FURNACE 67-06 M04-71326
COKE, ELECTRICAL PROPERTIES
INFLUENCE OF BAKING TEMPERATURE ON ELECTRICAL AND THERMOELECTRICAL PROPERTIES OF PETROLEUM COKE 67-02 M15-59194
COKE, REACTIONS /CHEMICAL/
REACTION KINETICS IN THE BLAST FURNACE 67-02 M04-60265
COKE REACTIVITY AS A MEASURE OF APPLICABILITY IN BLAST FURNACES 67-10 M04-78652
COKE, STEEL MAKING
THE HIGH-TEMPERATURE TESTING OF METALLURGICAL COKE 67-12 M04-82271
COKE BREEZE
SEE COKE
COKE FIRED FURNACES
SEE CUPOLAS
HOT BLAST CUPOLAS
COKE GAS
SEE COKE OVEN GAS
COKE OVEN GAS
THE INJECTION OF COKE OVEN GAS IN A BLAST FURNACE 67-10 M04-79695
THE EVALUATION OF COKE OVEN AND NATURAL GAS FOR INJECTION IN BLAST FURNACES 67-10 M04-79696
COKE-OVEN GAS- AND NATURAL GAS-FIRED INDUSTRIAL FURNACES OF MORE RECENT DESIGN FOR THE DIRECT, SCALE-FREE HEATING OF STEEL 67-12 M10-81755
COKING
PERFORMANCE OF COMMERCIALL-SIZE BLAST FURNACE ON HIGH SCRAP CHARGES AND SIGNIFICANCE TO THE USE OF PREREDUCED ORE 67-01 M04-57508
COLD AGING
SEE NATURAL AGING /METALLURGICAL/
COLD BENDING
SEE COLD WORKING
METAL BENDING
COLD CASTING
SEE ELECTRODEPOSITION
FORMING
COLD CRACKING /WELDS/
SEE WELD DEFECTS
COLD DEFORMATION
SEE DEFORMATION
COLD DRAWING
DEVICE FOR AUTOMATIC LUBRICANT FEED IN TUBE DRAWING AND ROLLING 67-02 M07-59680
METHOD FOR PRODUCTION OF SEAMLESS TUBES 67-02 M07-59683
COPPER TUBE TAKES ONE-PRODUCT ROUTE

67-03 M07-65433
POWER CONDITIONS IN MANDREL ROLLING OF TUBES
67-04 M07-66082
MECHANICAL PROPERTIES OF TUBES OF D1 AL ALLOY
67-04 M17-66372
EFFECT OF COLD WORKING ON THE RESISTANCE OF PEARLITIC STEEL TO PROLONGED EXPOSURE TO HIGH TEMPERATURES 67-04 M17-67970
QUALITY OF STEEL FROM CONTINUOUSLY CAST BILLETS. PT. 1. THE QUALITY OF HIGH-CARBON STEEL WIRE ROD ROLLED FROM BILLETS CONTINUOUSLY CAST FROM BASIC OXYGEN LD STEEL 67-05 M01-68732
DETERMINING ABSOLUTE STRAINS IN MANDREL-FREE DRAWING OF TUBES 67-06 M07-70283
CHANGE IN THE PROPERTIES AND STRUCTURE OF PIPES DURING DRAWING AFTER INDUCTION HEATING
67-06 M07-70911
HEATING OF PIPES DURING DRAWING IN AN ULTRASONIC FIELD 67-06 M07-70912
PRODUCTION OF SMALL PRECISION PARTS FROM COLD DRAWN SECTIONS 67-06 M07-71895
HYDROMECHANICAL DRAWING 67-06 M07-71899
COLD DRAWING OF STEEL PIPE AND TUBING
67-06 M07-72140
STAINLESS STEEL WIRE SPRING 67-06 M08-72045
TUBE DRAWING VIA ULTRASONICS 67-10 M07-78595
PRACTICAL HINTS FOR COLD DRAWING
67-10 M07-79756
MECHANICAL PROPERTIES OF PIPES OF THE D1 ALLOY
67-11 M17-80974
STUDIES ON FORMING TECHNIQUES AT THE FREIBERG ACADAMY 67-12 M07-81962
PROCESSING AND APPLICATIONS OF STAINLESS STEEL WIRE
67-12 M07-82276
USE OF SYNTHETIC ALIPHATIC ACID-BASE LUBRICANTS FOR DRAWING TUBES 67-12 M07-83410

COLD DUCTILITY
SEE DUCTILITY

COLD EXTRUSION
COLD EXTRUSION 67-01 M08-58726
EXTRUSION OF STEEL 67-02 M07-60217
NEW OPPORTUNITIES IN COLD EXTRUDED STEEL
67-02 M08-58976
INFLUENCE OF THE STATE OF THE BILLETS ON THE PROPERTIES OF COLD PRESSED ALUMINUM ALLOY PRODUCTS 67-02 M08-59771
EXTRUDED BIMETALLIC FINNED TUBES
67-02 M08-59817
A SIMPLE SUB-PRESS FOR REVERSE COLD EXTRUSION OF METALS 67-02 M08-60228
SELECTION OF STEELS AND HEAT TREATMENTS FOR EASE OF COLD EXTRUSION. PT. 1 67-03 M07-65761
N36KHT STEEL TUBE MANUFACTURE 67-04 M07-67828
NEW DEVELOPMENTS IN COLD EXTRUSION AND UPSETTING
67-05 M07-69143
COLD EXTRUSION OF BILLETS FOR WRIST PINS
67-06 M07-70473
LOW-TEMPERATURE EXTRUSION OF REFRACTORY METALS
67-06 M07-70474
NEW METHODS OF FORMING STEEL 67-06 M07-72009
METALWORKING PROCESS DEVELOPMENT
67-07 M07-72748
COLD EXTRUSIONS HOT NEW LOOK 67-07 M07-73309
DEFORMATION AND FORMING OF BERYLLIUM AT ROOM TEMPERATURE UNDER PRESSURE 67-07 M07-73754
COLD EXTRUSION OF PIECES FROM LOW-CARBON STEELS
67-07 M08-73957
HOW TO SELECT STEELS FOR COLD EXTRUSION
67-08 M07-74726
HYDROSTATIC EXTRUSION 67-08 M07-75790
PROBLEMS OF EXTRUSION TECHNOLOGY
67-08 M07-75791
DEPENDENCE OF THE PROPERTIES OF EXTRUDED SEMI-FINISHED PRODUCTS MADE FROM ALUMINUM ALLOYS ON THE STATE OF THE BILLETS 67-08 M07-76129
PRESSING METALS WITH INDEPENDENTLY MOVING DIES
67-08 M07-76244
LOW-TEMPERATURE EXTRUSION OF REFRACTORY METALS
67-10 M07-79674
BOLT PRODUCTION METHODS 67-12 M07-82833
COLD EXTRUSION HEADS FOR BIGGER PARTS, BIGGER MARKETS 67-12 M08-82599
THE APPLICATION OF HYDROSTATIC PRESSURE TO COLD EXTRUSION 67-12 M18-83237

COLD EXTRUSION, STRESSES
DETERMINATION OF THE COLD EXTRUSION STRESS WITH THE AID OF CORRELATION ANALYSIS 67-02 M07-60675

COLD FLOW
RELATIONSHIP BETWEEN STRUCTURE, CREEP BEHAVIOR, AND HARDNESS OF ALLOYS IN THE WC-TIC-CO SYSTEM
67-07 M17-72679

COLD FORGING
SEE COLD WORKING
FORGING

COLD FORGINGS
HIGH-PRESSURE FORMING FOR PRODUCTION
67-02 M09-61107
FORGING METALLURGY--STEEL. PT. 5. COLD FORGING
67-04 M07-68131
COLD FORGING. LESS MACHINING, LOWER COSTS
67-05 M07-69315

COLD FORMABILITY
SEE FORMABILITY

COLD FORMING
SEE COLD WORKING
FORMING

COLD HARDENING
SEE COLD TREATMENT

COLD HEADING
SEE COLD WORKING
HEADING

COLD MILLS
SEE COLD ROLLING MILLS

COLD PRESSING
STATUS OF THE TECHNOLOGY OF PRECISION STAMPING
67-02 M08-59810
THE FINE STRUCTURE OF REDUCED COPPER POWDER IN COMPACTS 67-02 M09-61624
ALUMINUM P/M PARTS NOW IN MASS PRODUCTION
67-04 M09-68130
THE PUSH FOR PERMEABILITY 67-06 M09-72316
EXPERIENCE IN THE COLD EXTRUSION OF ALUMINUM-ALLOY BLANKS 67-12 M07-83099

COLD REDUCTION
SEE COLD WORKING
REDUCTION /METAL WORKING/

COLD REDUCTION MILLS
SEE COLD ROLLING MILLS

COLD RESISTANCE
SEE THERMAL RESISTANCE

COLD RETORT FURNACES
SEE RETORT FURNACES

COLD ROLLING
SEE ALSO ROLL PLANISHING
SKIN PASS ROLLING
TENSION ROLLING
ALUMINUM WORKS MODERNIZATION 67-01 M01-58529
THE DIMENSIONING OF ROLL BODIES IN ROLL STANDS FOR ROLLING ALUMINUM 67-01 M07-58220
SHAPE IMPROVEMENT OF THIN STEEL STRIP BY TENSION LEVELLER 67-01 M07-58564
DEVELOPMENT IN ROLLING MILLS 67-01 M07-58578
SMOOTH ROLLING AND ITS APPLICATION IN MODERN PRODUCTION 67-01 M08-58715
ELASTIC DEFORMATION IN COLD ROLLING
67-01 M17-57920
MELTING AND WORKING DENTAL GOLD ALLOYS
67-02 M06-58913
CONFIDENCE IN ALUMINIUM 67-02 M07-59487
CURRENT PROBLEMS ON HARDENED FORGED STEEL WORK ROLLS FOR COLD STRIP MILLS 67-02 M07-60717
IMPROVED EFFICIENCY OF ROLL CHANGE OPERATION AT SHAPE MILL BY USING PERT METHOD
67-02 M07-60756
ALUMINIUM STRIP ROLLING AT DOLGARROG
67-02 M07-61123
DEGREE OF STRESSED STATE AND CHANGE IN EXTERNAL CONTACT FRICTION IN COLD ROLLING
67-02 M07-61214
ASPECTS OF THE MANUFACTURE OF COLD-ROLLED STEEL SHEET OF LOW-YIELD STRENGTH 67-02 M07-61654
HEAT CONDITIONS IN ROLLS DURING OPERATION OF COLD ROLLING SHEET MILL 67-02 M07-61746
CLOSER TOLERANCE ALUMINIUM STRIP JUSTIFIES ADVANCED MILL DESIGN 67-02 M07-61849
CALCULATING THE LENGTH OF THE ARC OF CONTACT AND DEFORMING FORCES IN COLD ROLLING OF FLAT SECTIONS
67-02 M07-61870
ELIMINATION OF DEFECTS IN HIGH-PURITY ALUMINUM INDUCED BY ROLLING AT VERY LOW TEMPERATURES
67-02 M14-58961
SLIP ROTATIONS OF POLYCRYSTALLINE COPPER HAVING THE --001-- --110-- ORIENTATION DURING ROLLING
67-02 M14-59111
A CONSIDERATION ON THE DEVELOPMENT OF ROLLING TEXTURES IN ALPHA IRON 67-02 M14-59112
THE INFLUENCE OF IRON AND SILICON ADDITIONS IN THE EARING OF ALUMINIUM SHEET 67-02 M14-61883

SOME ASPECTS OF THE PRESS FORMABILITY OF COMMERCIAL-PURITY ZINC STRIP 67-02 M17-60227
LOEWY CONSTANT-GAP ROLLING MILL AT THE WORKS OF ALUMINIUM CORPORATION 67-03 M07-65114
YOUNGSTOWNS 80-IN. COLD ROLLED SHEET MILL AT INDIANA HARBOR 67-03 M07-65925
THE COEFFICIENT OF FRICTION IN COLD ROLLING 67-03 M07-65938
AN EMPIRICAL EQUATION FOR THE STRAIN-RATE EFFECT ON ROLL SEPARATING FORCE IN COLD ROLLING 67-03 M07-65939
MECHANICAL TWINNING IN COLD-ROLLED SILVER SINGLE CRYSTALS 67-03 M13-65231
NEW AND ECONOMICAL WIDE STRIP ROLLING MILL DRIVES USING UNIVERSAL BALL SPINDLES AND COUPLINGS AS NEW MACHINE ELEMENTS 67-04 M07-66327
FORCES ACTING ON THE INSTRUMENT IN TUBE COLD ROLLING 67-04 M07-66615
THE CRITICAL SECTION ANGLE IN ROLLING WIDE STRIPS 67-04 M07-66616
DETERMINING MAXIMUM STRAIN DURING COLD ROLLING OF TUBES FROM THE CONDITIONS OF METAL FAILURE 67-04 M07-66617
PRE-STRESSED MILL FOR EXTRA-THIN TINPLATE 67-04 M07-67405

COLD ROLLING
EQUATIONS FOR CALCULATING FORWARD SLIP AND
EQUATIONS FOR CALCULATING FORWARD SLIP AND EXPERIMENTAL VERIFICATION IN COLD ROLLING STRIP
EXPERIMENTAL VERIFICATION IN COLD ROLLING STRIP WITH TENSION
WITH TENSION 67-04 M07-67612
CALCULATING THE LENGTH OF THE ARC OF BITE AND THE FORCES OF DEFORMATION WHILE COLD ROLLING FLAT SECTION 67-04 M07-67689
POWER AND FORCE PARAMETERS IN ROLLING SHAPED SECTIONS FROM CAST BILLETS 67-04 M07-67691
ROLLING PROCESS FOR TUBES ON COLD-ROLLING MILLS WITH ECCENTRIC DRIVING GEARS 67-04 M07-68192
THE FINE GRINDING OF SUPERFINISHING OF COLD-ROLLING ROLLS--A COMPARISON. PT. 1 67-04 M08-67187
STUDY OF SPECIFIC PRESSURE DURING METAL POWDER ROLLING 67-04 M09-67334
EFFECT OF COLD REDUCTION ON PRECIPITATION AND EMBRITTLEMENT OF A COBALT-BASE ALLOY --L-605-- 67-04 M17-66189
COMBINED INFLUENCE OF PLASTIC DEFORMATION AND AGING ON STRUCTURE AND PROPERTIES OF TS6 TITANIUM ALLOY 67-04 M17-66487
COLD DEFORMATION AND ANNEALING OF THE VT15 ALLOY 67-05 M07-68389
TEXTURE OF HOT ROLLED BAND OF SILICON IRON 67-05 M07-68473
CHANGING STRIP THICKNESS AS AFFECTED BY ROLLING RATE 67-05 M07-68551
ROLLING TUBES ON A KHPTR MILL WITH A TWO-ROW SEPARATOR 67-05 M07-68553
CONSTANT GAP MILL IN SERVICE. HIGHLY SUCCESSFUL FIRST INSTALLATION AT DOLGARROG 67-05 M07-69872
SOME WAYS OF IMPROVING THE SURFACE QUALITY OF COLD ROLLED SHEET 67-05 M08-68327
ROLLING AND ANNEALING TEXTURE OF --112-- --163-- COPPER SINGLE CRYSTAL 67-05 M14-68569
THEORETICAL STUDY OF THE UNEVENNESS OF DEFORMATION IN COLD LIGHT-GAGE SHEET ROLLING 67-06 M07-70284
ADVANCED ALUMINIUM ROLLING MILL 67-06 M07-70843
AUTOMATION OF THE CONTINUOUS THREE-STAND 1000 MILL FOR COLD ROLLING NONFERROUS METALS 67-06 M07-71394
ROLLING ULTRATHIN TITANIUM FOIL 67-06 M07-71583
ON THE RELATIVE VALIDITY OF TWO CURRENT COLD-ROLLING THEORIES 67-06 M07-71635
CONSTANT-GAP MILL IN SERVICE--LOWEY-ROBERTSON DESIGN PRODUCES CLOSE-TOLERANCE STRIP 67-06 M07-72017
CONTROL OF A SINGLE STRAND COLD STRIP MILL 67-06 M07-72098
THE DEVELOPMENT OF THE CONVERTIBLE ROLLING MILL 67-06 M08-72052
THE NATURE OF TRANSITION TEXTURES IN COPPER 67-06 M13-69935
THE INFLUENCE OF THERMOMECHANICAL TREATMENTS ON THE MICROSTRUCTURE AND TENSILE PROPERTIES OF HASTELLOY X-280 67-06 M17-69934
TEMPERATURE DISTRIBUTION IN THE WORKING ROLL IN COLD ROLLING 67-06 M19-71486
SCOW HAS DEMONSTRATION ON ALUMINIUM STRIP MILL 67-07 M07-72415
VARIATIONS OF STRIP THICKNESS IN RELATION TO ROLLING SPEED 67-07 M07-72462
ROLLING TUBES ON THE KHPTR MILL WITH TWIN SEPARATORS 67-07 M07-72464
DETERMINATION OF THE REPARTITION OF STRIP TENSION DURING THE COLD ROLLING OF WIDE STEEL STRIP 67-07 M07-72477
TESTING THE SUITABILITY OF BOUNDARY-ACTIVE LUBRICANTS FOR COLD WORKING 67-07 M07-72545
THE PRODUCTION AND FABRICATION OF COLD-FORMED SECTIONS AT THE WORKS OF AYRSHIRE METAL PRODUCTS LTD 67-07 M07-72998
EXAMPLES FOR THE APPLICATION OF A METHOD OF CALCULATION OF ROLLING CHARACTERISTICS 67-07 M07-73226
CALCULATION OF THE COLD ROLLING TORQUE OF STRIP WITH TENSION 67-07 M07-73475
COLD ROLLING RECTANGULAR PROFILES FOR PISTON RINGS FROM HARD-TO-WORK STEEL 67-07 M07-73785
PRODUCTION OF GRADE EI711 STEEL TUBES 67-07 M07-74080
THE ELASTIC BEHAVIOR OF A FOUR-HIGH COLD ROLLING STAND IN THE FINISH ROLLING OF AL FOIL 67-07 M07-74156
ROLLING MILL AT FUSINA 67-07 M07-74262
IMPROVING SURFACE QUALITY OF COLD-ROLLED SHEET 67-07 M08-72855
THE PRODUCTION AND PROPERTIES OF DUCTILE COBALT STRIP 67-07 M09-73826
EFFECT OF TWO-STAGE COLD ROLLING ON THE DEEP DRAWABILITY OF LOW-CARBON RIMMED STEEL SHEET 67-07 M17-72443
PLASTIC PROPERTIES OF THIN SHEET MOLYBDENUM AT VARIOUS DEFORMATION RATES 67-07 M17-73952
LUBRICANT FOR COLD ROLLING OF METALS 67-08 M07-74867
SPECIFIC PRESSURE DISTRIBUTION IN STRIP WIDTH DURING ROLLING 67-08 M07-75008
THE FABRICATION OF SILVER AND SILVER-BASE ALLOYS 67-08 M07-75628
EFFECT OF TRANSITION PROCESSES IN CONTINUOUS COLD ROLLING ON THICKNESS VARIATIONS OF STRIP 67-08 M07-75725
THE APPLICATION OF LARGE RIMMING STEEL INGOT TO COLD ROLLED DEEP DRAWING STEEL SHEET 67-08 M07-75802
COMPRESSION AND COLD ROLLING OF DISPERSION STRENGTHENED ALUMINIUM ALLOY --S.A.P.-- 67-08 M17-74410
COLD-ROLLING RECTANGULAR SECTIONS FOR PISTON RINGS FROM STEEL HARD TO DEFORM 67-09 M07-76548
COIL ROLLING OF ZINC 67-09 M07-77131
COLD ROLLING LUBRICATION TECHNOLOGY 67-09 M07-77149
THE EFFECT OF VARIATIONS IN THE WORKING OR BACKUP ROLL BALANCING POWER ON THE DISTRIBUTION OF STRIP TENSION OVER THE STRIP WIDTH IN THE COLD ROLLING OF WIDE STRIP 67-09 M07-77345
INVESTIGATION OF HIGH-SPEED COLD ROLLING OF LOW-CARBON STEEL WITH VARIOUS EMULSIONS 67-09 M07-77364
PERIODIC SURFACE FINISH AND TORQUE EFFECTS DURING COLD STRIP ROLLING 67-09 M07-77511
REASONS FOR THE EFFECT OF THE ROLLING SPEED ON THE COEFFICIENT OF FRICTION DURING COLD ROLLING WITH LIQUID LUBRICANTS 67-09 M07-77759
COLD ROLL FORMING--THE MACHINES AND THEIR APPLICATION 67-09 M08-77551
SOFT MAGNETIC MATERIALS OBTAINED BY ROLLING METAL POWDERS 67-09 M09-76569
OPTIMIZATION OF STEEL PRODUCT YIELD. PT. 2 67-09 M19-77380
COLD ROLLING OF STEEL SHEET 67-10 M07-78391
IMPROVEMENT OF PRECISION OF SHEET ROLLING ON A CONTINUOUS MILL 67-10 M07-78429
LONGEVITY OF COLD ROLLING ROLLS AND QUALITY OF THIN SHEET PRODUCTS 67-10 M07-78431
RESISTANCE AND POSSIBILITY OF DEFORMATION OF ALLOYED CO DURING COLD MILLING AND DRAWING 67-10 M07-79071
AUTOMATIC BRAKING AND STOPPING OF REVERSING COLD ROLLING MILLS 67-10 M07-79379
SOME PRINCIPLES OF THE DESIGN OF REVERSIBLE COLD ROLLING MILL DRIVES 67-10 M07-79380
MANUFACTURE OF EXTRA-THIN SHEET IRON AT THE ZAPOROZHSTAL WORKS 67-10 M07-79811

COLD ROLLING

DISTRIBUTION OF INTERNAL DEFECTS IN COLD ROLLED 08KPVG STEEL SHEET CAPPED IN VARIOUS WAYS IN THE MOLDS 67-10 M07-79815
STRAIN HARDENING OF ZR SPECIMENS OF VARYING PURITY BY ROLLING AT AMBIENT TEMPERATURES 67-10 M17-79898
SUGGESTIONS FOR INCREASING THE EFFICIENCY OF COLD ROLLING TANDEM MILLS 67-11 M07-80363
DECREASING THE WALL THICKNESS VARIATION IN TUBES BY USING TWO-ROW ROLLER ROLLING 67-11 M07-80862
TECHNOLOGICAL PROPERTIES OF HEAT RESISTANT EP150 TUBE STEEL 67-11 M07-80864
CRYSTALLOGRAPHIC RELATIONSHIPS BETWEEN THE ROLLING AND THE RECRYSTALLIZATION TEXTURES OF ALUMINIUM 67-11 M13-80378
FORMATION OF COLD ROLLED TEXTURE AND RECRYSTALLIZED TEXTURE IN SINGLE CRYSTALS OF 3 PER CENT SILICON IRON. PT. 2. RECRYSTALLIZED TEXTURE 67-11 M13-80797
ELECTRON MICROSCOPIC OBSERVATION ON THE RECRYSTALLIZATION OF THE HEAVILY ROLLED SHEET OF 7-3 BRASS 67-11 M14-81063
WEAK-TEXTURED, COLD ROLLED ELECTRICAL STRIP 67-11 M15-80845
THE MECHANISM OF RIDGING PHENOMENON IN 17 PER CENT-CHROMIUM STAINLESS STEEL SHEETS 67-11 M17-80941
THE PRESENT STATUS OF PRODUCTION OF COLD WIDE STRIP OF STAINLESS STEEL AT THE DUETSCHEN HIGH-GRADE STEELWORKS 67-12 M04-83286
STATISTICAL ANALYSIS OF LENGTHWISE THICKNESS VARIATION IN COLD ROLLED STRIP 67-12 M07-81712
FRICTION DURING HIGH-SPEED COLD ROLLING OF METALS WITH VARIOUS LUBRICANTS 67-12 M07-81715
POSSIBILITIES OF IMPROVING THE PRODUCTIVITY OF COLD ROLLING TUBE MILLS 67-12 M07-81874
RESISTANCE TO DEFORMATION DURING COLD ROLLING OF VT14, VT15, AND VT16 TITANIUM-ALLOY STRIPS 67-12 M07-83097
THE ORIGIN OF SOME SURFACE DEFECTS ON ROLLED AND DRAWN PRODUCTS 67-12 M07-83234
COLD DEFORMATION OF STAINLESS STEEL UNDER CERTAIN CONDITIONS OF SURFACE QUALITY 67-12 M07-83293
HIGHER DIMENSIONAL ACCURACY IN ROLLING SHEET ON THE CONTINUOUS MILL 67-12 M07-83427
SERVICE LIFE OF ROLLS FOR COLD-ROLLING MILLS AND QUALITY OF THIN SHEET PRODUCTION 67-12 M07-83429
PRODUCTION AND USE OF THIN SHEET FOR PACKAGING 67-12 M07-83451
KAISER STEELS 3-STAND COLD REDUCING MILL FOR LIGHT WEIGHT TIN MILL PRODUCTS 67-12 M07-83590
TUBULAR PRODUCTION IN THE COLD PILGER MACHINE 67-12 M07-83594
PRELIMINARY THERMOMECHANICAL TREATMENT OF CARBON STEEL 67-12 M08-82413
THE EFFECT OF INHOMOGENEOUS TEXTURES ON MECHANICAL PROPERTIES OF LOW-CARBON STEEL SHEETS 67-12 M17-82582
MANUFACTURE OF PLATE FUEL ELEMENTS FOR RESEARCH REACTORS 67-12 M20-82810

COLD ROLLING, AUTOMATION
COLD MILLS 67-05 M07-69179
FINDING A PRACTICAL METHOD FOR CALCULATING ROLL FORCE IN WIDE REVERSING COLD MILLS 67-09 M07-76670

COLD ROLLING, IMPURITY EFFECTS
REPORT ON THE EFFECT OF IRON AND SILICON IMPURITIES ON THE RECRYSTALLISATION TEXTURE OF VERY HIGH-PURITY ALUMINIUM FOIL 67-01 M14-57458

COLD ROLLING, QUALITY CONTROL
EFFECT OF TRANSITION PROCESSES IN CONTINUOUS COLD ROLLING ON THE THICKNESS VARIATION OF THE STRIP 67-06 M07-71256
CONTROL OF PRODUCT QUALITY IN THE WROUGHT ALUMINUM INDUSTRY 67-07 M19-74009
QUALITY CONTROL IN AN ALUMINUM SHEET MILL 67-12 M07-82071

COLD ROLLING, STRESSES
OPTIMUM CONDITIONS FOR COLD ROLLING SHEETS 67-06 M07-70943

COLD ROLLING MILLS
SEE ALSO COLD STRIP MILLS
COLD TANDEM MILLS
RADICAL MILL INSURES FLATNESS IN LIGHTGAGE STRIP 67-03 M07-65435
YOUNGSTOWNS 80-IN. COLD ROLLED SHEET MILL AT INDIANA HARBOR 67-03 M07-65925
ADVANCED ALUMINIUM ROLLING MILL 67-06 M07-70843
CONSTANT-GAP MILL IN SERVICE--LOWEY-ROBERTSON DESIGN PRODUCES CLOSE-TOLERANCE STRIP 67-06 M07-72017
MANUFACTURE OF WELDED STEEL PIPE 67-06 M07-72139
STRIP THICKNESS REGULATION FOR REVERSING COLD ROLLING MILLS 67-07 M07-74021
APPLICATION AND MAINTENANCE EXPERIENCE WITH THYRISTOR POWDERED ROLLING MILLS 67-10 M07-78615
INCREASING THE LIFE OF THE WORKING ROLLS OF COLD ROLLING MILLS 67-12 M07-81870

COLD ROLLING MILLS, AUTOMATION
COLD MILLS 67-05 M07-69179

COLD ROLLING MILLS, DESIGN
RESEARCH ON THE DESIGN OF FOUR-HIGH COLD ROLLING MILL STANDS 67-08 M07-75391

COLD SEAMING
SEE MASH SEAM WELDING

COLD SHEARING
APPLICATION OF A PETROFORGE MACHINE TO HIGH-SPEED SHEARING OPERATIONS 67-04 M08-66107

COLD SHORTNESS
SEE BRITTLENESS

COLD STRAIGHTENING
BETHLEHEMS BEAM STRAIGHTENER FEATURES VARIABLE-CENTER ADJUSTMENT 67-05 M08-69490
THEORETICAL AND EXPERIMENTAL INVESTIGATION OF FORCES AND TORQUE IN ROLL-STRAIGHTENING OF ROLLED MATERIAL 67-07 M07-73227

COLD STRETCHING
SEE COLD WORKING
STRETCHING

COLD STRIP MILLS
LOEWY CONSTANT-GAP ROLLING MILL AT THE WORKS OF ALUMINIUM CORPORATION 67-03 M07-65114
SCOW HAS DEMONSTRATION ON ALUMINIUM STRIP MILL 67-07 M07-72415

COLD SWAGING
SEE COLD WORKING
SWAGING

COLD TANDEM MILLS
NEW AND ECONOMICAL WIDE STRIP ROLLING MILL DRIVES USING UNIVERSAL BALL SPINDLES AND COUPLINGS AS NEW MACHINE ELEMENTS 67-04 M07-66327
PRE-STRESSED MILL FOR EXTRA-THIN TINPLATE 67-04 M07-67405
IMPALCOS 6 MILLION POUND MODERNIZATION SCHEME AT WAUNARLWYDD 67-06 M20-71299

COLD TREATMENT
CERTAIN INFORMATION REGARDING THE COLD TREATMENT OF STEEL, IN PARTICULAR C6440 STEEL 67-10 M10-79857

COLD UPSETTING
THE PRODUCTION OF STEEL PARTS WITH LARGE HEADS BY COLD DEFORMATION 67-05 M07-68565
NEW DEVELOPMENTS IN COLD EXTRUSION AND UPSETTING 67-05 M07-69143
THE UPSETTING PROPERTIES OF ZIRCONIUM AND ZIRCALOY. PT. 2 67-06 M17-71729

COLD UPSETTING, STRESSES
INVESTIGATION OF SPECIFIC PRESSURE AND FRICTION IN PLASTIC COMPRESSION OF METAL 67-03 M17-65963

COLD WELDING
EXPERIENCE OF PRODUCING NEW WELDING EQUIPMENT 67-02 M11-60193
COLD WELDING OF DUCTILE METALS--PROGRESS IN TECHNIQUES 67-02 M11-60920
A METHOD OF CALCULATING THE WELDABILITY --COLD WELDING-- OF METALS 67-02 M11-61040
COLD PRESSURE WELDING OF COPPER AND ALUMINIUM IN DRAWING PROCESSES 67-02 M11-61884
THE BONDING MECHANISM IN THE COLD PRESSURE WELDING OF ALUMINIUM 67-04 M11-66604
COLD AND PRESS WELDING AT HIGH UPSETTING RATES 67-04 M11-66808
COLD WELDING OF TRANSISTOR HOUSINGS 67-06 M11-71655
COLD AND FORGE WELDING WITH HIGH UPSETTING RATES 67-08 M11-75912
COLD PRESSURE WELDING 67-09 M11-76512
COLD WELDING TENDENCIES AND FRICTIONAL STUDIES OF CLEAN METALS IN ULTRA-HIGH VACUUM 67-10 M11-78553
COLD WELDING OF TRANSISTOR BODIES 67-10 M11-79623

SOME CHARACTERISTICS OF SPOT COLD WELDING
67-11 M11-80642

COLD WELDING, IMPURITY EFFECTS
INFLUENCE OF THE ROLLING TEXTURE ON COLD WELDING OF ALUMINUM 67-08 M11-74372
INFLUENCE OF ROLLING TEXTURE ON THE COLD WELDING CONDITIONS FOR ALUMINIUM 67-12 M11-82245

COLD WORKING
SEE ALSO COLD DRAWING
COLD ROLLING
COLD STRAIGHTENING
COLD UPSETTING
DIE DRAWING
DRAW BENDING
DYNAPAK PROCESS
EXPLOSIVE FORMING
HIGH ENERGY RATE FORMING
HYDROFORMING
HYDROSTATIC EXTRUSION
HYDROSTATIC FORMING
MAGNETIC FORMING
PLANISHING
ROLL PLANISHING
ROLLER LEVELING
RUBBER PAD FORMING
SKIN PASS ROLLING
SPARK FORMING
STRETCH FORMING
STRETCH WRAPPING
STRETCHER LEVELING
TENSION ROLLING
WIRE DRAWING
HIGH-SPEED COLD ROLLING OF LOW-CARBON STEEL SHEET AS A FUNCTION OF LUBRICANT TYPE
67-01 M07-58091
HOW ROLLING RATE AFFECTS BITE TORQUE ON A COLD 2800 MILL 67-01 M07-58171
HEAVY I-BEAMS TAKE CURVES EASILY
67-01 M07-58486
FAULTING IN COLD WORKED TA-10 PER CENT RE AND W-20 PER CENT RE 67-01 M13-58455
CONCERNING THE INCREASE IN DUCTILITY OF CERTAIN HEXAGONAL METALS AFTER COLD DEFORMATION.. CASE OF MG-0.5 PER CENT ZR ALLOY 67-01 M17-57165
CERAMIC PARTS 67-02 M05-61100
SELECTING EMULSION LUBRICANTS FOR COLD STEEL STRIP ROLLING 67-02 M07-58888
FORGING METALLURGY--STEEL. PT. 1
67-02 M07-59034
COLD FORMING 67-02 M07-59631
FORCES OF STRIPPING WORKING CONE FROM MANDREL IN COLD ROLLING OF TUBES ON KHPT MILLS
67-02 M07-61215
TOOLING FOR COLD PRESSING ALUMINUM ALLOY TUBES
67-02 M07-61617
POWER PARAMETERS FOR ROLLING SHAPED PROFILES FROM CAST BILLETS 67-02 M07-61872
TUBE ROLLING ON KHPT MILLS WITH ECCENTRIC DRIVING GEARS 67-02 M07-62150
RELATIONSHIP OF THE COLD ROLLING PROCESS TO RATE OF CONTINUOUS MILL 67-02 M07-62266
STATUS OF THE TECHNOLOGY OF PRECISION STAMPING
67-02 M08-59810
FORMING CHANNELS WHICH HAVE VERTICAL FLANGES
67-02 M08-59823
AUSFORMING OF MAGNESIUM ALLOYS WITH NEODYMIUM
67-02 M10-60800
EFFECT OF COLD PLASTIC DEFORMATION AND OF THE QUANTITY OF CARBON ON THE DISLOCATION STRUCTURE OF CARBON STEELS 67-02 M13-59580
THE EFFECT OF MOLYBDENUM, TUNGSTEN AND VANADIUM ON THE ANNEAL HARDENING OF COLD WORKED 18 CR-12 NI STAINLESS STEEL 67-02 M17-60147
STUDY ON THE FATIGUE STRENGTH OF ROLLER-CHAIN LINK PLATE. THE EFFECTS OF LINK PLATE FORM, SHOT-PEENED AND FINISHED HOLE 67-02 M17-60660
SURFACE COLD ROLLING OF MARINE PROPELLER SHAFTS
67-02 M18-60720
HINTS FOR MODERN COLD HEADING 67-03 M08-65865
EFFECT OF TEXTURE, GRAIN SIZE, AND COLD WORK ON THE PRECIPITATION OF ORIENTED HYDRIDES IN ZIRCALOY TUBING AND PLATE 67-03 M14-65849
USE OF POLYURETHANE PADS FOR COLD FORMING OPERATIONS 67-04 M07-66335
FORGING METALLURGY--STEEL. PT. 5. COLD FORGING
67-04 M07-68131
COLD BENDING AND FORMING TUBE AND OTHER SECTIONS
67-04 M08-66589
COLD HEADING SAVES MONEY ON SMALL PARTS
67-04 M08-68103
ON THE INTERMEDIATE ANNEALING DURING COLD FORMING PROCESS OF STEEL 67-04 M10-66893
THE COLD WORKING AND SOFTENING OF COPPER ALLOYS
67-04 M17-66152
EFFECT OF COLD WORKING ON THE TOUGHNESS OF 9 PER CENT NICKEL STEEL 67-05 M17-69366
EFFECT OF COLD WORK ON THE OXIDATION OF FE-CR ALLOYS IN WATER VAPOUR AT 600 C
67-05 M18-68638
COLD BENDING 67-06 M08-70022
THE CRYSTAL STRUCTURE OF TANI3 AND ITS CHANGE ON COLD WORKING 67-07 M13-73922
COLD WORK INTERNAL FRICTION PEAK IN IRON
67-07 M17-73913
GKN COLD FORGING PARTS 67-08 M07-76098
TENSION TESTS OF REINFORCING STEELS AT GRADUAL TEMPERATURE 67-08 M17-74622
COLD REDUCTION TECHNIQUE PUTS MORE FORGINGS IN THE AIR 67-09 M07-77181
MACHINING AND HEADING--SELECTION OF STAINLESS STEEL GRADES 67-09 M08-77100
COLD FORMING ON HORIZONTAL MULTI-STATION TRANSFER MACHINES 67-09 M08-77513
STAINLESS STEELS 67-09 M08-77819
EFFECT OF COLD DEFORMATION ON THE MECHANICAL PROPERTIES OF RIMMING REINFORCING STEEL BARS FOLLOWING ARTIFICIAL AGING 67-09 M17-76702
FATIGUE STRENGTH OF COLD WORKED 18/8 CR-NI AND OTHER AUSTENITIC ALLOY STEELS
67-09 M17-76905
PRECISION SWAGING ON A WECKER TWIN-HAMMER FORGING MACHINE 67-10 M07-79284
COLD FORMING STAINLESS AND SUPERALLOYS
67-10 M07-79758
THERMOMECHANICAL STRENGTHENING OF STEEL
67-10 M10-79211
EFFECT OF THE TYPE OF COLD WORKING ON THE ARTIFICIAL AGING IN NOTCH IMPACT TESTS ON CONVENTIONAL STRUCTURAL STEELS
67-10 M17-79100
HOT AND COLD WORKING OF CAST MATERIALS
67-11 M07-80477
FORMING OF TITANIUM AND TITANIUM ALLOYS
67-11 M08-80678
ON THE EFFECT OF COLD WORK ON THE OXIDATION OF IRON FROM 400 TO 650 C 67-11 M18-80715
THE EFFECT OF CERTAIN METALLURGICAL AND MECHANICAL FACTORS ON METAL FLOW DURING COLD NUT FORMING
67-12 M08-82275
FASTENERS MADE STRONGER VIA VACUUM PROCESSING
67-12 M08-82400
COLD FORMING BY SWAGING 67-12 M08-83132
FAULTING IN COLD WORKED FE-SI ALLOY FILINGS
67-12 M13-82723
STAINLESS STEELS IN TRANSPORTATION
67-12 M20-83296

COLD WORKING, HEATING EFFECTS
INVESTIGATIONS INTO THE COLD WORKING PROPERTIES OF THE HEAT AFFECTED ZONE RESULTING FROM FLAME CUTTING STEEL SHEET METAL
67-09 M17-77339

COLD WORKING, IMPURITY EFFECTS
THE EFFECTS OF OXYGEN ON THE MECHANICAL AND CORROSION PROPERTIES OF HAFNIUM
67-01 M17-58457

COLD WORKING, LUBRICANTS
LUBRICANTS FOR COLD FORMING 67-04 M07-68058

COLD WORKING, RADIATION EFFECTS
EFFECTS OF VARIOUS DOPING TREATMENTS UPON THE DAMAGE PRODUCTION AND RECOVERY OF DEUTERON-IRRADIATED ALUMINUM 67-11 M16-81392

COLLECTORS
SEE ACCUMULATORS

COLLOIDS
SEE AEROSOLS

COLOR ANODIZING
APPLICATION OF COLOR ANODIZING IN ARCHITECTURE
67-02 M12-59996
ARCHITECTURAL AND HARD ANODIZING
67-03 M12-65151
ARCHITECTURAL ANODIZING 67-05 M12-68800
DECORATIVE AND PROTECTIVE FINISHES PRODUCED ON ALUMINIUM BY HARD ANODIZING 67-05 M12-68814
TESTS ON ANODIZED AL 67-06 M12-71982
SOME PRODUCTION PLATING PROBLEMS AND HOW THEY WERE SOLVED. PT. 11 67-07 M12-74127
STUDIES ON THE COLOR TONE OF ANODIZED FILMS ON AL-MN-MG ALLOYS 67-08 M12-75374

COLORIMETRIC ANALYSIS
COLORIMETRIC DETERMINATION OF SILICON IN CAST IRON 67-01 M19-57210
COLORING
CONTINUOUS COLOR COATING LINE IN IGETA COLOR COATED SHEET CO., LTD 67-01 M12-58253
PRODUCTION OF COLORED ANODIC OXIDE FILMS ON ALUMINUM 67-01 M12-58361
CORROSION PROTECTION THROUGH BLUEING AND BLACKING 67-05 M18-69104
COLORED FINISHES FOR COPPER AND COPPER ALLOYS USING SELENIOUS ACID 67-08 M12-74612
COLORS /MATERIALS/
SEE PIGMENTS
COLUMBIUM
SEE NIOBIUM
COLUMBIUM BASE ALLOYS
SEE NIOBIUM BASE ALLOYS
COLUMNAR STRUCTURE
THE INFLUENCE OF ORGANIC ADDITIONS ON COLUMNAR GRAIN GROWTH OF SINTERED URANIUM DIOXIDE 67-04 M14-67460
FORMATION OF THE CHILL ZONE IN INGOT SOLIDIFICATION 67-06 M06-69936
CONDITIONS FOR THE COLUMNAR-EQUIAXED TRANSITION DURING SOLIDIFICATION OF BINARY ALLOYS 67-07 M14-72528
SUBSTRUCTURES IN OXIDE SCALES ON NICKEL, COBALT, AND NICKEL-COBALT ALLOYS 67-09 M13-76620
EFFECTIVE THERMAL CONDUCTIVITY AND STRUCTURAL CHANGE OF UO2 POWDER COMPACTED FUEL IN THERMAL SIMULATION EXPERIMENT 67-12 M15-83550
COLUMNAR STRUCTURE, ALLOYING EFFECTS
STUDY ON MACROSTRUCTURE OF AL ALLOY 67-05 M13-68884
THE PRODUCTION OF COLUMNAR STRUCTURES IN HIGH-COBALT HIGH-TITANIUM PERMANENT MAGNET ALLOYS 67-08 M14-75985
INVESTIGATION OF ACICULAR STRUCTURE IN TITANIUM-CONTAINING PERMANENT MAGNETS OF ALNICO 67-12 M13-82229
COLUMNAR STRUCTURE, COOLING EFFECTS
SOLIDIFICATION STRUCTURES IN DIRECTIONALLY FROZEN INGOTS 67-11 M13-81333
COLUMNAR STRUCTURE, HEATING EFFECTS
THE ELECTRON BEAM MELTING OF TUNGSTEN. PT. 8. THE ELECTRON BEAM MELTING OF REFRACTORY METALS 67-05 M14-69857
COLUMNAR STRUCTURE, RADIATION EFFECTS
ON THE MICROSTRUCTURE OF UO2 PELLETS IRRADIATED AT HIGH TEMPERATURE 67-06 M16-71239
COLUMNS /PROCESS/
COLUMN FLOTATION DEVELOPMENT USING AN 18-IN. PILOT UNIT 67-06 M03-70973
COLUMNS /PROCESS/, MATERIALS
INFLUENCE OF HYDROGEN, HIGH TEMPERATURE AND HIGH PRESSURE ON MECHANICAL PROPERTIES OF METALS 67-04 M17-66345
COLUMNS /PROCESS/, WELDING
WELDING OF STAMPED HOOD PLATES OF THIN SHEET KH18N10T STEEL FOR RECTIFICATION COLUMNS 67-06 M11-71656
COLUMNS /STRUCTURAL/, MECHANICAL PROPERTIES
COMPRESSION TEST ON CONCRETE-FILLED STEEL-TUBE COLUMN--ESPECIALLY ON BEARING-TYPE STRUCTURAL STEEL-TUBE COLUMN 67-04 M17-67515
EXPERIMENTAL BUCKLING OF INTERNAL INTEGRAL RING-STIFFENED CYLINDERS 67-06 M17-71152
COLUMNS /STRUCTURAL/, WELDING
EFFECTS DURING CONSTRUCTION OF THE WELDING RESIDUAL STRESSES ON THE COMPRESSION OF THE CONCRETE AT JOINTS IN PRECAST COLUMNS 67-02 M17-60188
COMBUSTIBILITY
SEE FLAMMABILITY
COMBUSTION
SEE ALSO SPONTANEOUS COMBUSTION
THE ROLE OF GAS PRESSURE AND HEAT TRANSFER IN THERMOMETALLURGY 67-02 M03-60731
COMPOSITION OF FUMES OF SULFUROUS FUELS. PT. 2. EQUILIBRIUM COMPOSITIONS OF FUMES OF SULFUROUS FUELS IN THE PRESENCE OF SOLID PHASES 67-02 M04-62062
INTEGRATED AUTOMATIC STOVE CHANGING AND COMBUSTION SYSTEMS 67-09 M04-76673
HOW SMALL AMOUNTS OF OXYGEN IN THE COMBUSTION PRODUCTS AFFECT PROTECTIVE GAS ATMOSPHERES 67-09 M10-77053
COMBUSTION CHAMBERS
PUSH-PULL LOW-ENDURANCE FATIGUE OF CAST IRONS AND STEELS 67-04 M17-66729
COMMINUTION
SEE ALSO CRUSHING
GRINDING /COMMINUTION/
INVESTIGATION OF WEAR WITH VARIOUS ORES AND BALLS 67-04 M09-67746
COMMINUTORS
SEE GRINDING MILLS
COMMUNICATION CABLES
SEE ALSO COAXIAL CABLES
THE EVOLUTION OF SHEATH CONSTRUCTIONS FOR COMMUNICATIONS CABLES 67-09 M07-76405
DESIGN AND MANUFACTURE OF PLASTIC INSULATED ALUMINUM CONDUCTOR TELEPHONE CABLE 67-10 M20-78582
COMMUNICATION CABLES, CORROSION
CORROSION AND PROTECTION METHODS FOR ALUMINUM SHEATH OF COMMUNICATION CABLES 67-05 M18-69830
CORROSION AND METHODS OF PROTECTING THE ALUMINUM CASING BY COMMUNICATION CABLES 67-12 M18-82264
COMMUNICATION SATELLITES
WHERE ALUMINUM INVESTMENT CASTINGS ARE USEFUL 67-09 M20-77183
COMMUTATORS, MATERIALS
ALLOYS FOR COMMUTATORS OF ELECTRIC MACHINES 67-04 M20-66037
COMPACTIBILITY
CERTAIN REGULARITIES OF PRESSING TWO-COMPONENT CERMET MATERIALS 67-06 M09-70771
COMPACTING PROPERTIES OF POWDER MIXTURES 67-07 M09-73272
FABRICATION OF DENSE UO2 BY HOT PRESSING AND COEXTRUSION 67-10 M09-78473
COMPACTING
SEE ALSO EXPLOSIVE COMPACTING
HYDROSTATIC PRESSING
ISOSTATIC PRESSING
ROLL COMPACTING
VIBRATORY COMPACTING
SINTERED PARTS MADE OF STAINLESS STEEL POWDER 67-01 M09-57611
DEVELOPMENT TRENDS IN MODERN POWDER METALLURGY 67-01 M09-58717
EFFECT OF THE CERMET GEOMETRICAL FACTOR ON THE VALUE OF ELASTIC AFTERACTION 67-02 M09-59603
POWDER METALLURGY EQUIPMENT MANUAL. PT. 2. COMPACTING PRESSES AND TOLLING 67-02 M09-61001
THE POSSIBILITY OF MANUFACTURING PARTS OF COMPLEX SHAPE BY THE METHOD OF VIBRATORY COMPACTING OF POWDER MATERIALS 67-02 M09-61626
VIBRATION PACKING OF SPHERICAL POWDERS 67-02 M09-62123
STUDY OF THE DENSIFICATION OF REFRACTORY COMPOUND POWDERS BY THE ELECTRICAL CONDUCTIVITY METHOD 67-04 M09-67333
MECHANISM OF METALLIC CONTACT FORMATION IN SAP TYPE ALLOYS 67-04 M09-67335
ALUMINUM P/M PARTS NOW IN MASS PRODUCTION 67-04 M09-68130
HYPEREUTECTIC ALUMINUM-SILICON ALLOYS PRODUCED BY HOT COMPACTION OF ATOMIZED POWDER 67-04 M09-68161
IMPROVED COMPACTING METHODS GIVE BETTER POWDER PARTS 67-05 M09-69444
BETEMA COMPACTING PRESSES FOR METAL POWDER 67-06 M09-71324
SOME PROBLEMS IN SINTERING AND COMPACTION OF STOCK ROLLED FROM POWDERS 67-07 M09-73031
THE USE OF BLENDING PROCEDURES AND OF NICKEL ADDITONS IN THE COMPACTION OF AN ACICULAR ELECTROWON TUNGSTEN POWDER 67-07 M09-73404
HOT PRESSING OF ALUMINA--A NEW TREATMENT OF FINAL DENSIFICATION 67-07 M09-73623
CONSOLIDATING METAL POWDERS MAGNETICALLY 67-07 M09-73863
A NEW METHOD FOR COMPACTING METAL OR CERAMIC POWDERS INTO CONTINUOUS SECTIONS 67-07 M09-73864
THE MECHANISM OF THE COMPACTION OF METAL POWDERS BY ROLLING 67-07 M09-73865
SOME PROBLEMS OF ISOSTATIC COMPACTING OF METAL POWDERS IN ELASTIC SHELLS 67-08 M09-75456
INVESTIGATION OF THE SINTERABILITY OF MOLYBDENUM 67-08 M09-75464
BRIQUETTING-COMPACTING APPLICATIONS IN THE STEEL INDUSTRY 67-09 M04-76728

PREPARATION OF THIN PLATES FROM REFRACTORY CARBIDES 67-09 M09-76840
INFLUENCE OF THE GEOMETRICAL FACTOR OF SINTERED PARTS ON THE MAGNITUDE OF THEIR ELASTIC AFTER-EFFECT 67-09 M09-76921
UNALLOYED TUNGSTEN.. POWDER-METALLURGY MATERIAL 67-09 M09-77325
MATERIALS FOR ENGINEERS. PT. 12. ADVANCES IN POWDER METALLURGY 67-10 M09-79500
EXTRUSION OF ALUMINUM POWDER COMPACTS 67-10 M09-79981
EFFECT OF ACTIVITY OF ZRO2 ON ITS DENSIFICATION DURING HOT PRESSING 67-12 M05-81740

COMPACTING, IMPURITY EFFECTS
ACTIVATED SINTERING IN BERYLLIUM POWDERS BY SELECTIVE ADDITION OF TRACE ELEMENTS 67-07 M09-73758

COMPACTION
SEE COMPACTING

COMPACTS, CORROSION
THE EFFECTS OF WATER VAPOR AND NITROGEN IN SINTERING ATMOSPHERES ON THE CORROSION RESISTANCE OF SINTERED STAINLESS STEEL 67-05 M18-68315

COMPACTS, GRAIN GROWTH
THEORY OF GRAIN GROWTH IN POROUS COMPACTS 67-03 M14-65866

COMPACTS, INFILTRATION
INFILTRATION OF COPPER AND BRASS INTO SINTERED IRON COMPACTS 67-07 M14-73252

COMPACTS, MAGNETIC PROPERTIES
MAGNETIC PROPERTIES OF SINTERED COMPACTS OF IRON POWDERS WITH AND WITHOUT PHOSPHORUS ADDITION 67-09 M15-78247

COMPACTS, MECHANICAL PROPERTIES
DEFORMATION THEORY OF HOT PRESSING 67-11 M17-81090

COMPACTS, MICROSTRUCTURE
A METALLOGRAPHIC STUDY OF SINTERED STEEL 67-08 M09-75493

COMPACTS, PHYSICAL PROPERTIES
RELATIONS BETWEEN PORE STRUCTURE AND DENSIFICATION MECHANISM IN THE COMPACTING OF IRON POWDERS. PT. 2. THEORETICAL CONSIDERATIONS ABOUT THE CHANGE OF PORE SIZE DISTRIBUTION IN COMPACTING 67-05 M09-68946
THERMOEMISSIVITY OF ALLOYS OF W-LA2O3 SYSTEM 67-12 M09-81992

COMPACTS, POWDER METALLURGY
POROUS METALS FILTER LIQUIDS, CUT NOISE, DAMPEN VIBRATION 67-05 M01-68428
MAKING POROUS PARTS OF CHROMIUM CARBIDE WITH APPLICATION OF VOLATILE FILLERS 67-08 M09-74307
THE KINETICS OF METALLIC ACTIVATION SINTERING OF TUNGSTEN 67-08 M09-75292

COMPACTS, REFINING
MANUFACTURING OF CHROMIUM COMPACTS BY THE CHLORIDE METHOD AND STUDY OF THEIR PHYSICAL AND MECHANICAL PROPERTIES 67-09 M03-76968

COMPACTS, SUPERCONDUCTIVITY
MAGNETIC INVESTIGATION OF THE SUPERCONDUCTING BEHAVIOR OF SINTERED COMPACTS OF NIOBIUM AND COPPER-NIOBIUM 67-07 M16-73402

COMPACTS, THERMAL PROPERTIES
EFFECTIVE THERMAL CONDUCTIVITY AND STRUCTURAL CHANGE OF UO2 POWDER COMPACTED FUEL IN THERMAL SIMULATION EXPERIMENT 67-12 M15-83550

COMPACTS, TRANSPORT PROPERTIES
ELECTRONIC AND IONIC CONDUCTIVITY IN NB2O5 67-11 M15-81690

COMPATIBILITY
COMPATIBILITY OF U-PU-FZ FUEL ALLOYS WITH POTENTIAL CLADDING MATERIALS 67-01 M14-58585
A CASE HISTORY OF TITANIUM STRESS CORROSION IN NITROGEN TETROXIDE 67-01 M18-58728
A STUDY OF THE COMPATIBILITY OF SELECTED REFRACTORY METALS WITH VARIOUS CERAMIC INSULATION MATERIALS 67-04 M18-67270
THE COMPATIBILITY OF GRAPHITE WITH CESIUM 67-06 M14-71056
MECHANICAL PROPERTIES AND COMPATIBILITY OF URANIUM-PLUTONIUM CARBIDES 67-09 M17-76341
OXIDATION RESISTANT, HIGH TEMPERATURE CERAMIC-TO-METAL SEAL COMPATIBLE WITH CESIUM 67-10 M11-79996
URANIUM CARBIDES, NITRIDES, PHOSPHIDES AND SULFIDES 67-11 M16-80463
INVESTIGATION OF URANIUM-PLUTONIUM-TITANIUM-CARBON COMPOUNDS 67-11 M20-80150

COMPLIANCE /ELASTICITY/
SEE MODULUS OF ELASTICITY

COMPOSITE CONSTRUCTION
THE FAILURE OF COPPER-TUNGSTEN FIBER COMPOSITES IN REPEATED TENSION 67-01 M17-57222
COMPOSITE MATERIALS--THE BUILDING-BLOCK TECHNOLOGY 67-01 M20-57399
DIFFUSION-BONDING OF FORMABLE STRUCTURAL PANELS BY COMPOSITE ROLLING 67-02 M11-61841
WELD FASTENERS PUSH INTO LIMELIGHT 67-03 M11-65764
SUMMARY OF THE TWELFTH MEETING OF THE REFRACTORY COMPOSITES WORKING GROUP 67-07 M09-73219
PROGRESS REPORT--DEVELOPMENT OF ADVANCED COMPOSITE STRUCTURES 67-07 M09-73346
ADVANCED FIBROUS REINFORCED COMPOSITES 67-07 M09-73369
THE CREEP-RUPTURE STRENGTH OF MOLYBDENUM COMPOSITE CAST WITH NIMONIC 90 ALLOY 67-09 M17-77263

COMPOSITE MATERIALS
USE OF GLASS IN POWDER METALLURGY 67-02 M09-61639
SAMPE BLANKETS REINFORCED COMPOSITES 67-02 M09-61846
CERAMIC FIBER REINFORCED METAL COMPOSITES PROVIDE HIGH STRENGTH WITH LIGHT WEIGHT 67-03 M09-65210
FILAMENT-MATRIX INTERACTIONS IN METAL MATRIX COMPOSITES 67-03 M14-65345
FIBER-METAL COMPOSITES 67-03 M14-65346
PREPARATION OF METAL-OXIDE DISPERSION COMPOSITES 67-03 M14-65347
CERAMIC-METAL FIBER COMPOSITE SYSTEMS 67-03 M14-65349
FIBRE-REINFORCED METALS BY ELECTROFORMING 67-04 M08-66153
FIBER-REINFORCED METALS 67-04 M09-66123
HOT DYNAMIC PRESSING OF METAL POWDERS AND CHIPS 67-04 M09-66957
HIGH MODULUS FILAMENTS FOR METAL MATRIX REINFORCEMENTS 67-05 M09-68904
ON THE STRENGTH OF AL-RICH AL-AG SOLID SOLUTION WHICH CAUSED THE DIFFERENCE IN THE CONCENTRATION DISTRIBUTION OF THE SOLUTE ATOM 67-05 M14-69852
TUNGSTEN FIBER-REINFORCED COPPER COMPOSITES FORM HIGH STRENGTH ELECTRICAL CONDUCTORS 67-06 M01-70008
SPI REINFORCED PLASTICS DIVISION 67-06 M01-70614
WANTED.. MATERIALS THAT DO NOT EXIST 67-06 M01-71238
STRUCTURAL APPLICATIONS FOR ADVANCED COMPOSITE MATERIALS 67-06 M09-70127
NEW METAL-METAL COMPOSITE MATERIALS 67-06 M09-71500
METAL-PLASTIC ANTIFRICTION MATERIALS FOR MANUFACTURING OF SALT-TYPE BEARINGS FOR LUBRICANT-FREE FRICTION 67-07 M09-72504
FIBER-REINFORCED METALS 67-07 M09-72752
ROTOR-TYPE CONTINUOUS MECHANIZED LINE FOR PRODUCTION OF POWDER COMPOSITE CONTACTS 67-08 M09-75476
COMPOSITE MATERIALS 67-08 M14-74685
THEORY OF STRENGTHENING OF METALS 67-08 M14-74686
DISPERSION STRENGTHENED MATERIALS 67-08 M14-74687
FIBER-STRENGTHENED MATERIALS 67-08 M14-74688
SOME PROPERTIES OF SINTERED WC-TAC-10 PER CENT CO ALLOYS 67-09 M09-78252
CARBON FIBRES STRONGER THAN HIGH TENSILE STEEL 67-10 M14-79422
STELVETITE, A NEW COMPOSITE MATERIAL WITH A BRIGHT FUTURE 67-10 M20-79803
PRODUCTION AND PROPERTIES OF HEAT RESISTANT FIBROUS MATERIALS 67-11 M14-81428
BERYLLIUM COMPOSITE MATERIALS 67-12 M17-83115
67-12 M20-83004

COMPOSITE MATERIALS, AEROSPACE
FABRICATION OF FILAMENT WOUND BORON REINFORCED COMPOSITES FOR RE-ENTRY VEHICLE APPLICATIONS 67-06 M09-70620

COMPOSITE MATERIALS, BEARINGS
PRECISION STAMPING OF DRY FRICTION SLEEVE BEARINGS 67-01 M08-57247

COMPOSITE MATERIALS, BONDING
METHOD FOR BONDING A SINTERED REFRACTORY CARBIDE BODY TO A METALLIFEROUS SURFACE

67-02 M11-60939
DIFFUSION-BONDING OF FORMABLE STRUCTURAL PANELS BY COMPOSITE ROLLING 67-02 M11-61841
COMPOSITE BULKHEAD FABRICATION DEVELOPMENT 67-06 M11-70006
METAL LAMINATE COMPOSITE MATERIALS FOR COMPRESSOR BLADING 67-07 M09-73363

COMPOSITE MATERIALS, BRAKE DISKS
SINTERED ABRASIVE ALLOY 67-02 M09-59596

COMPOSITE MATERIALS, BRAZING
BRAZING OF METAL-CERAMIC CONTACTS 67-09 M11-77619

COMPOSITE MATERIALS, CASTING
METHOD OF PREPARING COMPOSITE CASTINGS 67-02 M06-60936

COMPOSITE MATERIALS, COATING
CERAMIC-METAL COMPOSITES 67-04 M09-66280
ELECTROLESS PLATING FOR ELECTRONIC APPLICATIONS 67-07 M12-72771

COMPOSITE MATERIALS, COATINGS
WIDER PROPERTIES WITH COMPOSITE COATINGS 67-05 M12-69569

COMPOSITE MATERIALS, CORROSION
PHASE ANALYSIS OF OXIDE FILMS ON FE-AL POWDER COMPOSITES 67-01 M09-58175
CORROSION RESISTANCE OF STEEL-CORED ALUMINUM AND ALUMINUM ALLOY CONDUCTORS 67-01 M18-58365
HIGH-TEMPERATURE CORROSION RESISTANCE OF DISPERSION-HARDENED NICKEL 67-04 M18-67841
THE CORROSION RESISTANCE OF SINTERED ALUMINUM POWDER 67-06 M18-70379
THE CORROSION-RESISTANCE OF NEW SINTERED ALUMINUM ALLOYS 67-06 M18-70380
GRAPHICAL CALCULATION OF THE CHARGE COMPOSITION OF MULTICOMPONENT SINTERED MATERIALS 67-12 M09-82201

COMPOSITE MATERIALS, CRYSTAL LATTICES
EFFECT OF NEUTRON IRRADIATION ON THE PROPERTIES OF TITANIUM AND CHROMIUM CARBIDES 67-02 M09-59609
THE EFFECT OF SMALL ADDITIONS AND IMPURITIES ON THE CRYSTALLINE LATTICE CONSTANT AND HEAT EXPANSION OF MOLYBDENUM 67-06 M13-70951

COMPOSITE MATERIALS, DEFORMATION
PLASTIC DEFORMATION AND RECRYSTALLIZATION OF REFRACTORY COMPOUNDS 67-06 M09-71461

COMPOSITE MATERIALS, DENSITY
INVESTIGATION OF THE TECHNOLOGICAL CHARACTERISTICS OF W-NI-CU-ALLOYS CONTAINING DISPERSIVE INCLUSIONS OF ZIRCONIUM DIOXIDE 67-04 M09-66259

COMPOSITE MATERIALS, DIFFUSION
THE DIFFUSION OF C IN COMPOSITE STEELS 67-02 M14-60207
HIGH-TEMPERATURE MOBILITY OF ATOMS OF MOLYBDENUM-TUNGSTEN SYSTEM COMPONENTS 67-04 M14-66262

COMPOSITE MATERIALS, ELECTRICAL PROPERTIES
INFLUENCE OF THE GRINDING METHOD OF ALUMINA ON THE PROPERTIES OF SLURRY AND THE PROPERTIES OF SLIP CAST SINTERED PARTS 67-02 M09-60598
ELECTRICAL RESISTIVITY OF CARBON COMPOSITE SINTERED MATERIALS. PT. 4. TEMPERATURE DEPENDENCE OF RESISTIVITY AND CARBON BULK DENSITY 67-02 M15-60162
ELECTRICAL RESISTIVITY OF CARBON COMPOSITE SINTERED MATERIALS. PT. 5. EFFECTS OF FIRING TEMPERATURE ON RESISTIVITY-TEMPERATURE DEPENDENCE 67-02 M15-60163
ELECTRICAL RESISTIVITY AND CONDUCTIVITY OF TUNGSTEN-FIBER-REINFORCED COPPER COMPOSITES 67-04 M15-66944
ELECTRICAL RESISTIVITY OF CARBON COMPOSITE SINTERED MATERIALS. PT. 8. EFFECTS OF CARBON MATERIALS ON RESISTIVITY 67-08 M15-75306
CHARACTERISTICS OF CU-W-CO AND CU-WC-CO CONTACT ALLOYS FOR HEAVY CURRENT APPLICATIONS 67-09 M15-78226
ANOMALOUS ELECTRIC CONDUCTION PHENOMENA OF THIN ALUMINUM OXIDE FILMS IN VACUUM 67-12 M15-83547

COMPOSITE MATERIALS, ELECTRODEPOSITION
EOS PROBES ELECTRODEPOSITED COMPOSITE STRUCTURES MARKET 67-02 M12-59482

COMPOSITE MATERIALS, EROSION
NEW HIGH-EFFICIENCY ELECTRODES--TOOLS FOR SPARK MACHINING MADE OF CERMET CHIPS 67-06 M09-72325

COMPOSITE MATERIALS, ETCHING
CERTAIN CONDITIONS FOR THE PREPARATION AND ETCHING OF THIN SECTIONS OF METAL-GRAPHITE COMPOSITIONS 67-02 M09-61794
DETECTION OF THE STRUCTURE OF SINTERED MATERIALS OF THE ME-MEO SYSTEM BY IONIC BOMBARDMENT 67-06 M13-70966

COMPOSITE MATERIALS, EXTRUSION
NEW TECHNIQUES FOR MAKING HIGH TEMPERATURE RESISTANT COMPOSITE MATERIALS 67-07 M09-73364
METALWORKING 67-11 M07-80531

COMPOSITE MATERIALS, FIBER METALLURGY
FIBER-REINFORCED METALS 67-01 M01-58569
INFLUENCE OF CONSTITUENT PROPERTIES UPON THE STRUCTURAL EFFICIENCY OF FIBROUS COMPOSITE SHELLS 67-01 M17-58521
SILICA FIBER REINFORCED ALUMINUM 67-04 M17-67736
METAL MATRIX COMPOSITE MATERIALS 67-05 M09-68497
PROGRESS IN COMPOSITE MATERIALS 67-06 M09-70652
METALLIC FILAMENTS AND THEIR COMPOSITES 67-07 M09-73341
USE OF BORON NITRIDE FIBERS IN COMPOSITES 67-07 M09-73342
WHISKER COMPOSITE TECHNOLOGY 67-07 M09-73343
MECHANICAL BEHAVIOR OF A CONTINUOUS FILAMENT CARBON COMPOSITE 67-07 M09-73345
BORON FILAMENT FOR STRUCTURAL COMPOSITES 67-07 M09-73348
BORON ALUMINUM COMPOSITE FABRICATED BY PLASMA SPRAYING 67-07 M09-73358
THE FABRICATION AND MECHANICAL PROPERTIES OF SIC FILAMENT-METAL MATRIX COMPOSITES 67-07 M09-73366
FIBER REINFORCED COMPOSITE MATERIALS 67-08 M09-74922
TENSILE PROPERTIES OF FIBER-REINFORCED METALS--FRACTURE MECHANICS 67-10 M17-80006
RECENT ADVANCES IN COMPOSITE TECHNOLOGY 67-12 M14-82045
METAL MATRIX COMPOSITE MATERIALS--THEIR REINFORCING COMPONENTS AND THEIR PROBLEMS 67-12 M14-82046

COMPOSITE MATERIALS, FRICTION
ANTIFRICTION PROPERTIES OF IRON-BASE POWDERED-METAL MATERIALS 67-01 M09-57668
INVESTIGATION OF FERROUS ANTIFRICTION POWDER COMPOSITES 67-02 M09-59678
INVESTIGATION OF ANTIFRICTION PROPERTIES OF SEALING COMPOSITE MATERIALS. PT. 2 67-02 M09-60182
STUDY OF DRY FRICTION OF CERTAIN POWDER COMPOSITES AT HIGH RATES OF SLIP 67-02 M09-60895
ANTIFRICTION PROPERTIES OF BORON NITRIDE DURING DRY FRICTION IN A GASEOUS MEDIUM AND AT LOW TEMPERATURES 67-02 M09-61708
POWDERED-METAL FRICTION MATERIAL 67-05 M09-69057
ANTIFRICTION PROPERTIES OF SOME COMPOSITE SINTERED PACKING MATERIALS. PT. 2 67-09 M09-76915

COMPOSITE MATERIALS, HARDENING
STUDY OF HARDENING OF SINTERED ALUMINUM POWDER --SAP-- 67-01 M09-58192
DISPERSION HARDENED WROUGHT URANIUM 67-02 M09-60946

COMPOSITE MATERIALS, HEAT TREATMENT
STUDY OF THE KINETICS OF INDUCTION HEATING OF POROUS IRON 67-02 M10-60071

COMPOSITE MATERIALS, IMPREGNATION
IMPREGNATION OF SINTERED ARTICLES WITH LIQUID METALS 67-06 M09-70213

COMPOSITE MATERIALS, LUBRICANTS
IMPROVING FRICTIONAL BEHAVIOR WITH SOLID FILM LUBRICANTS 67-03 M05-65432

COMPOSITE MATERIALS, MACHINING
INVESTIGATION OF CERMET STABILITY DURING CUTTING OF POROUS IRON 67-02 M09-59614
ON THE POSSIBILITY OF IMPROVING THE TECHNOLOGY ON MACHINING SINTERED BUSHINGS 67-02 M09-60186
INVESTIGATION OF THE CUTTABILITY OF BRONZE-GRAPHITE COMPOSITES 67-08 M17-75438
QUALITY OF MACHINED SURFACE OF POROUS BRONZE-GRAPHITE COMPOSITE 67-10 M08-79348

COMPOSITE MATERIALS, MAGNETIC PROPERTIES
CASTING ELECTRICAL STEEL AND RESULTING EFFECT ON ITS MAGNETIC PROPERTIES 67-04 M06-66336

COMPOSITE MATERIALS, MECHANICAL PROPERTIES
THE FAILURE OF COPPER-TUNGSTEN FIBER COMPOSITES IN REPEATED TENSION 67-01 M17-57222

MECHANICAL METHODS OF MEASURING RESIDUAL STRESSES IN COMPOSITE MATERIALS 67-01 M17-57664
PROPERTIES OF MATERIALS. PT. 2. FIBRE-REINFORCEMENT --THE MECHANICS OF FIBRE-REINFORCED MATERIALS 67-01 M17-58589
COMPOSITE MATERIALS--THE BUILDING-BLOCK TECHNOLOGY 67-01 M20-57399
CERAMIC PARTS 67-02 M05-61100
INFLUENCE OF NI, CO AND MN ADDITIONS ON ACTIVATION OF SINTERING OF IRON POWDERS. PT. 2 67-02 M09-59606
INVESTIGATION OF THE BRITTLE FRACTURE OF SINTERED MATERIALS 67-02 M09-61710
INVESTIGATION OF THE STRENGTH AND DUCTILITY OF POWDER METALLURGY PARTS AT LOW TEMPERATURES 67-02 M09-61711
PREPARATION OF TIC, WC AND CRC CARBIDES AND INVESTIGATION OF THEIR PROPERTIES 67-02 M09-61713
DUCTILITY OF SAP --SINTERED ALUMINUM POWDER-- AND DURALUMINUM 67-02 M09-61731
INVESTIGATION OF THE HEAT RESISTANCE OF BRITTLE POWDERED-METAL MATERIALS 67-02 M17-59874
PRESENT CONDITION AND FUTURE PROSPECTS OF HIGH-STRENGTH COMPOSITE MATERIALS 67-02 M17-59904
OXIDATION-RESISTANT GRAPHITE-BASE COMPOSITES 67-02 M17-60714
THE EFFECT OF THE INTERPHASE INTERACTION ON THE STRENGTH OF SOME ALUMINUM ALLOY MIXTURES 67-02 M17-60780
MECHANICAL PROPERTIES OF ALUMINUM ALLOYS WITH CORUNDUM 67-02 M17-60783
YOUNGS MODULUS OF CARBIDES OF SOME TRANSITION METALS 67-02 M17-61712
STUDY OF MATERIAL FOR UNLUBRICATED ROLLING PARTS FOR HIGH-TEMPERATURE SERVICE 67-02 M17-61998
EUTECTICS PROVIDE POSSIBLE ONE-STEP WHISKER COMPOSITES 67-03 M09-65615
FACTORS AFFECTING THE TENSILE STRENGTH OF METALS REINFORCED WITH STRONG FIBERS 67-03 M17-65348
STEEL WIRE REINFORCEMENT IN LAMINATED PLASTICS 67-03 M17-65499
EFFECT OF SMALL ADDITIONS OF COPPER ON SINTERING OF STAINLESS STEEL 67-04 M09-66094
COMPARATIVE INVESTIGATION OF THE PROPERTIES OF NICKEL-GRAPHITE COMPOSITES CONTAINING CARBONYL NICKEL OR ELECTROLYTIC NICKEL 67-04 M09-66257
PECULIARITIES OF THE VACUUM-THERMAL METHOD OF PREPARATION AND SOME PROPERTIES OF YTTRIUM AND GADOLINIUM BORIDES 67-04 M09-66266
CHANGES IN THE PROPERTIES OF SINTERED CONTACT MATERIALS 67-04 M09-66267
BORON FILAMENT REINFORCED PLASTIC COMPOSITES FOR AIRCRAFT STRUCTURE 67-04 M09-66649
ON SINTERING CERMETS IN METAL-ALUMINUM OXIDE SYSTEMS 67-04 M09-67838
WHISKER-STRENGTHENED METALS 67-04 M17-66124
THE EFFECT OF FIBRE DIAMETER AND DISCONTINUOUS FIBRES ON THE FATIGUE OF A FIBRE-REINFORCED METAL 67-04 M17-66151
FERRO-TIC FOR GAUGES, MEASURING INSTRUMENTS AND MEASURING TOOLS 67-04 M20-66186
INVESTIGATION OF THE EFFECT OF POROSITY ON THE STRENGTH PROPERTIES OF POWDERED-METAL BRONZES 67-05 M09-68201
PROPERTIES OF ZRB2-TAB2 ALLOYS CONTAINING CR 67-05 M09-68236
INVESTIGATION OF PROPERTIES OF EXTRUDED NICKEL-ALUMINUM OXIDE ALLOYS 67-05 M09-68704
STRUCTURE AND PROPERTIES OF COMPOUNDS OF ALUMINUM WITH SILICON CARBIDE 67-05 M17-68387
SPECIAL FEATURES OF THE EFFICIENCY OF POWDERED METAL ANTIFRICTION COMPOSITES EXPOSED TO DRY AND LIQUID FRICTION 67-05 M17-69050
THE MECHANICAL PROPERTIES OF SINTERED METAL-GLASS MATERIALS 67-06 M09-70963
STAINLESS WIRE PLUS ALUMINUM MATRIX EQUALS STRONG, LIGHT COMPOSITE PLATE 67-06 M09-72251
INVESTIGATION OF HEAT CONDUCTIVITY, ELECTRICAL CONDUCTIVITY AND MECHANICAL PROPERTIES OF IRON-BASE SULFIDIZED SINTERED MATERIALS 67-06 M09-72328
HIGH-TEMPERATURE CREEP OF AL2O3 CERAMICS 67-06 M17-70565
A TENSILE FAILURE MECHANISM FOR WHISKER REINFORCED COMPOSITES 67-06 M17-70615
MEASUREMENT OF BORON FILAMENTARY COMPOSITE BEHAVIOR RELATIVE TO MECHANICAL DESIGN OF RE-ENTRY VEHICLE STRUCTURES 67-06 M17-70616
YIELDING PHENOMENA IN BERYLLIUM WIRE PLASTIC COMPOSITES 67-06 M17-70618
THE REINFORCEMENT OF NICKEL-BASE ALLOYS WITH HIGH-STRENGTH TUNGSTEN WIRES 67-06 M17-70955
SURVEY OF CERAMIC FIBERS AND FIBROUS COMPOSITE MATERIALS 67-07 M01-73874
SINTERING OF METAL POWDER STRUCTURAL MATERIALS BY INDUCTION HEATING 67-07 M09-72503
MECHANICAL BEHAVIOR OF BERYLLIUM WIRE REINFORCED PLASTIC COMPOSITES 67-07 M09-73338
METAL-MATRIX COMPOSITE MATERIALS FOR AIRCRAFT COMPRESSOR BLADES 67-07 M09-73347
ADVANCED METAL COMPOSITES--A STATUS REPORT 67-07 M09-73720
BORON-FILAMENT REINFORCED PLASTIC COMPOSITES FOR AIRCRAFT STRUCTURES 67-07 M09-73721
TUNGSTEN WIRE BOLSTERS POWDER 67-07 M09-74153
POSTFORMABLE ADHESIVELY BONDED METAL LAMINATES 67-07 M11-73844
STRENGTH OF ALUMINUM WITH FINELY LINED LAYERS OF ALUMINUM OXIDE AT ROOM TEMPERATURE AND HIGH TEMPERATURE 67-07 M17-72517
FRACTURE OF STRUCTURAL MATERIALS 67-07 M17-74129
ELASTIC AFTEREFFECT DURING PRESSING OF TWO-COMPONENT METAL-CERAMIC MATERIALS 67-08 M09-74304
METALLIC-FIBER REINFORCED HEAT RESISTANT CERAMIC MATERIALS 67-08 M09-74357
PROCESSES OF MANUFACTURING ANISOTROPIC POWDER COMPOSITES AND DEVELOPMENT OF PRODUCTION PLANS 67-08 M09-75451
PREPARATION AND PROPERTIES OF CARBIDES --TI, W, CR-- C 67-08 M09-75858
THE POTENTIAL OF FIBER REINFORCEMENT 67-08 M09-76256
PLASTIC-ALUMINIUM COMPOSITES 67-08 M11-76183
YOUNGS MODULI OF THE CARBIDES OF SOME TRANSITION METALS 67-08 M17-75857
INVESTIGATION OF DUCTILE FRACTURE BY MEANS OF AN IRON-ALUMINA COMPOSITE PRODUCED BY SINTERING 67-08 M17-76222
INVESTIGATION OF THE INFLUENCE OF PRECIPITATES AND INCLUSIONS ON THE INITIATION AND PROPAGATION OF CLEAVAGE 67-08 M17-76223
A MODEL SYSTEM TO SIMULATE CREEP OF COMPOSITES 67-08 M17-76257
THE DEFORMATION AND FRACTURE OF TWO-PHASE MATERIALS 67-08 M17-76258
THE POTENTIAL OF COMPOSITE MATERIALS 67-08 M20-74689
A COMPARATIVE INVESTIGATION OF THE PROPERTIES OF NICKEL-GRAPHITE MATERIALS FROM ELECTROLYTIC AND CARBONYL NICKEL POWDERS 67-10 M09-78989
VACUUM-THERMAL PREPARATION OF YTTRIUM AND GADOLINIUM BORIDES, AND SOME OF THEIR PROPERTIES 67-10 M09-78998
SOME REGULARITIES GOVERNING THE CHANGE IN THE PROPERTIES OF CONTACT MATERIALS MANUFACTURED BY POWDER METALLURGY TECHNIQUES 67-10 M09-78999
INVESTIGATION OF PROPERTIES OF NICKEL FIBER COMPOSITES 67-10 M09-79343
DUCTILITY OF SINTERED METAL-GLASS COMPOSITES 67-10 M09-79350
BERYLLIUM WIRE--A NEW ENGINEERING MATERIAL 67-10 M17-78632
THE ORIGIN OF FRACTURES IN AG-CDO COMPOSITE MATERIALS 67-10 M17-79078
A TENSION TEST METHOD FOR HIGH MODULUS, HIGH-STRENGTH FILAMENTS 67-10 M17-79175
INTERNAL FRICTION IN IRON-NICKEL HIGH-TEMPERATURE HARD ALLOYS 67-10 M17-79745
SINTERING OF CONSTRUCTIONAL POWDER MATERIALS BY HIGH-FREQUENCY CURRENTS 67-11 M09-80889
SOME ASPECTS OF THE FRACTURE OF METALLIC COMPOSITES 67-11 M17-80142
INFLUENCE OF SULFIDIZING ON FRICTION AND WEAR OF IRON-GRAPHITE MATERIALS 67-11 M17-80588
MICROMECHANICS OF BORON FILAMENT REINFORCED ALUMINUM COMPOSITES 67-11 M17-80691
THE STRENGTH OF TUNGSTEN-FIBER-REINFORCED ALUMINUM COMPOSITES AT HIGH TEMPERATURES 67-11 M17-81057
MICROSTRAIN BEHAVIOR OF METAL MATRIX COMPOSITES 67-11 M17-81129
MECHANICAL BEHAVIOR OF A FIBER REINFORCED METAL AND ITS EFFECT ON ENGINEERING APPLICATION

COMPOSITE MATERIALS

67-11 M17-81518
COMPOSITES AT LOW TEMPERATURES 67-11 M17-81519
PROPERTIES OF EXTRUDED NICKEL-ALUMINA ALLOYS
67-12 M09-82680
THE AGE OF COMPOSITE MATERIALS 67-12 M09-83277
INFLUENCE OF LONG-TIME THERMAL TREATMENTS ON THE PROPERTIES OF AL-AL203 COMPOSITES
67-12 M09-83502
STRENGTH OF ALUMINUM BASE COMPOSITES
67-12 M09-83528
FABRICATION AND EVALUATION OF SAPPHIRE WHISKER REINFORCED ALUMINUM COMPOSITES
67-12 M14-81737
HIGH STRENGTH AND THE PROBLEM OF THREAD-LIKE CRYSTALS 67-12 M14-83310
X-RAY LINE BROADENING AND RESIDUAL STRESS STUDIES OF COMPOSITE MATERIALS 67-12 M17-81820
THE RANGE OF RATIONAL APPLICATION OF POLYMERS AS ANTIFRICTION MATERIALS AND THE MECHANISM OF THEIR SELF-LUBRICATING ACTION
67-12 M17-82194
A STUDY OF THE ANTIFRICTION PROPERTIES OF COMPOSITE METAL/POLYMER MATERIALS IN A VACUUM AND IN CERTAIN GAS ATMOSPHERES 67-12 M17-82195
AN INVESTIGATION OF THE FATIGUE BEHAVIOR OF TUNGSTEN-REINFORCED AND STEEL- REINFORCED SILVER COMPOSITES 67-12 M17-82974
SAP-TYPE ALLOYS SOLID SOLUTION STRENGTHENED WITH MAGNESIUM 67-12 M17-83048
SUPERPLASTICITY IN ELECTROPLATED COMPOSITES OF LEAD AND TIN 67-12 M17-83053
FRACTURE BEHAVIOR OF ULTRAHIGH-STRENGTH-STEEL LAMINAR COMPOSITES 67-12 M17-83056

COMPOSITE MATERIALS, METAL WORKING
INCREASING THE DIAMETER OF COMPOSITE TUBING USED IN THE FIELD OF NUCLEAR ENERGY 67-02 M08-62037

COMPOSITE MATERIALS, MICROSTRUCTURE
MICROSTRUCTURE OF MOLECULAR CERMETS
67-04 M09-66263
MICROSTRUCTURE OF MOLECULAR CERMETS
67-10 M09-78995

COMPOSITE MATERIALS, NONDESTRUCTIVE TESTING
NONDESTRUCTIVE TESTING OF COMPOSITE STRUCTURES WITH THE SONIC RESONATOR 67-02 M19-60916
PROSPECTUS FOR NDT IN THE SATURN AND ADVANCED SPACE FLIGHT PROGRAMS 67-02 M19-60917
DEVELOPMENT OF ULTRASONIC TESTING TECHNIQUES FOR SATURN HONEYCOMB HEAT SHIELDS
67-05 M19-68441
PROPERTIES DETERMINATION AND PROCESS CONTROL OF BORON FILAMENT COMPOSITES USING NONDESTRUCTIVE TEST METHODS 67-07 M09-73368
INDUCTIVE METHOD FOR THE CONTROL OF POWDER COMPOSITE PRODUCTS 67-08 M19-74919

COMPOSITE MATERIALS, OPTICAL PROPERTIES
LUMINESCENCE OF POWDER METAL ALLOYS
67-04 M09-66258
A NEW TYPE OF COMPOSITE ALL-METAL ELECTRON EMITTER FOR VALVES AND ELECTRON-OPTICAL DEVICES
67-08 M15-74394
COEFFICIENTS OF BRIGHTNESS OF SINTERED ALLOYS
67-10 M09-78990

COMPOSITE MATERIALS, ORDER DISORDER
DIFFUSE X-RAY SCATTERING BY THE SOLID SOLUTION HFC-ZRC 67-02 M09-61167

COMPOSITE MATERIALS, OXIDATION
ON POROUS BODY OXIDATION 67-02 M09-59608
HEAT RESISTANCE OF CHROMIUM AND CHROMIUM ALLOYS WITH ADDITIONS OF MGO 67-04 M18-67283

COMPOSITE MATERIALS, PHASE TRANSFORMATIONS
TRANSFORMATIONS TAKING PLACE DURING THE HEATING OF SINTERED ALUMINUM POWDER 67-02 M09-60894
THE GROWTH RATE OF DISPERSION PARTICLES IN NICKEL. PT. 1 67-12 M09-82214

COMPOSITE MATERIALS, PHYSICAL PROPERTIES
SINTERING AND TECHNOLOGICAL PROPERTIES OF SILICON CARBIDE HEATERS OF VARIOUS GRAIN SIZE
67-02 M09-60597
VACUUM METALLIZING OF POLYMER POWDERS. THERMAL AND ELECTRIC PROPERTIES OF PREPARED COMPOSITES
67-02 M09-61703
INVESTIGATION OF SOLID PHASE REACTIONS WITH THE MICROMETRIC DILATOMETER 67-04 M09-66265
INTERNAL FRICTION IN SINTERED BERYLLIUM
67-04 M15-67834
INTERNAL FRICTION IN SINTERED MAGNESIUM
67-04 M17-67821
MELTING POINTS OF ZRC-HFC, TAC-ZRC AND TAC-HFC SYSTEMS 67-05 M15-68710
ELECTRIC INSULATION TUBE OF BORON CARBONITRIDE FOR PROTECTION OF METAL THERMOCOUPLES
67-06 M09-70970
THERMAL AND ELECTRICAL PROPERTIES OF POROUS TUNGSTEN AND TUNGSTEN-MOLYBDENUM CATHODE MATERIALS 67-06 M15-70969
ELECTROCONDUCTIVITY OF ALUMINUM OXIDE
67-06 M15-71361
PREPARATION AND PHYSICAL PROPERTIES OF ALLOYS OF THE W-LAB6 SYSTEM 67-07 M15-73271
PHYSICAL PROPERTIES OF SOLID SOLUTIONS IN THE SYSTEM CBC-MO3C2 67-08 M15-74312
HEAT TRANSFER PROPERTIES OF LOOSE-FIBER MATERIALS IN VACUUM 67-10 M05-79251
INVESTIGATION OF SOLID-PHASE REACTIONS BY MEANS OF A MICROMETRIC DILATOMETER 67-10 M09-78997
MELTING POINT IN SYSTEMS ZRC-HFC, TAC-ZRC, TAC-HFC
67-12 M15-82686

COMPOSITE MATERIALS, PIPE
COMPOSITE PIPES OF STEEL AND PLASTICS
67-10 M20-79092

COMPOSITE MATERIALS, POROSITY
DETERMINATION OF AVERAGE PORE SIZE OF SINTERED POROUS METALS 67-01 M09-58193
THE STRUCTURE OF POROUS NICKEL ELECTRODES MADE BY THE POWDER METALLURGICAL METHOD
67-06 M09-70962
THE DEPENDENCE OF THE UNEVEN VERTICAL DISTRIBUTION OF THE PROPERTIES OF SINTERED FILTER ELEMENTS ON THE TECHNOLOGY OF THEIR MANUFACTURE
67-06 M09-70967
SINTERING OF METAL-GLASS COMPOSITES--DEPENDENCE BETWEEN TOTAL POROSITY AND OPEN POROSITY DURING SINTERING OF METAL-GLASS MATERIALS
67-08 M09-75427

COMPOSITE MATERIALS, POWDER METALLURGY
VACUUM SINTERING OF HARD ALLOYS
67-01 M09-58172
EFFECT OF THE CERMET GEOMETRICAL FACTOR ON THE VALUE OF ELASTIC AFTERACTION 67-02 M09-59603
AN ANALYSIS OF SHRINKAGE KINETICS DURING SINTERING OF REDUCED CHROMIUM POWDER 67-02 M09-59605
INVESTIGATION OF THE SINTERING OF ALLOYS OF ZIRCONIUM DIBORIDE WITH MOLYBDENUM DISILICIDE
67-02 M09-60175
INVESTIGATION OF COMPACTIBILITY OF HOT PRESSED MGO WITH VARIOUS ADDITIONS 67-02 M09-60177
INVESTIGATION OF THE PRODUCTION OF CERMET PARTS WITH VARIABLE PHYSICAL AND MECHANICAL PROPERTIES
67-02 M09-60178
ULTRASONIC ACTIVATION DURING PRODUCTION OF REFRACTORY METAL POWDER COMPACTS
67-02 M09-62188
PREPARATION OF HIGH-POROSITY MATERIALS FROM REFRACTORY COMPOUNDS 67-02 M09-62189
THE CHARACTER OF REACTION OF TITANIUM NITRIDE WITH THE IRON GROUP METALS, MOLYBDENUM, AND TUNGSTEN 67-02 M09-62213
INVESTIGATION OF THE COMPACTION OF COPPER-TIN CERMET ALLOYS DURING SINTERING
67-04 M09-66255
REGULARITIES OF STRUCTURE FORMATION DURING THE SINTERING OF IRON-GRAPHITE COMPOSITIONS
67-04 M09-67337
PREVENTION OF GROWTH OF DISPERSE PARTICLES IN NICKEL 67-04 M10-67340
SINTERING METAL CARBIDES UNDER PRESSURE
67-06 M09-70317
REGULARITIES OF SINTERING OF ZIRCONIUM DIBORIDE-MOLYBDENUM ALLOYS 67-06 M09-70959
CONSOLIDATING METAL POWDERS MAGNETICALLY
67-07 M09-73863
HOT-EXTRUDED CHROMIUM COMPOSITE POWDER
67-07 M09-73868
CHEMICAL METHOD FOR PRODUCTION OF THE MATERIALS FOR ELECTRIC CONTACTS 67-08 M09-74319
PRODUCTION OF POWDER COMPOSITE CASINGS FOR THE TEETH OF MILLING CUTTERS 67-08 M09-74914
PREPARATION OF DENSE PARTS FROM REFRACTORY METALLIDES WITH ULTRASONIC ACTIVATION
67-08 M09-75964
PREPARATION OF HIGH-POROSITY MATERIALS FROM REFRACTORY COMPOUNDS 67-08 M09-75965
PRODUCTION OF POWDER COMPOSITE FERROSILICON MAGNETIC CONDUCTORS WITH PLANAR DIELECTRIC LAYERS
67-09 M09-76570
SINTERING OF ALLOYS OF ZIRCONIUM DIBORIDE WITH MOLYBDENUM DISILICIDE 67-09 M09-76908
FEASIBILITY OF MANUFACTURE OF HARD-ALLOY PARTS

WITH VARIABLE PHYSICO-MECHANICAL PROPERTIES
67-09 M09-76911
SINTERING PROCESSES IN METAL-GLASS MATERIALS. PT. 1. INFLUENCE OF SINTERING TEMPERATURE ON SHRINKAGE PROCESSES 67-10 M09-78986
DENSIFICATION DURING THE SINTERING OF COPPER TIN POWDER ALLOYS 67-10 M09-78987
ACTIVATED SINTERING OF TUNGSTEN WITH SMALL ADDITIONS OF NICKEL 67-12 M09-82780
PLASTIC DEFORMATION AND RECRYSTALLIZATION OF REFRACTORY COMPOUNDS 67-12 M09-82782

COMPOSITE MATERIALS, PRESSING
COMPACTING SHKH15 SWARF BY DYNAMIC HOT PRESSING
67-12 M09-82478

COMPOSITE MATERIALS, RADIATION EFFECTS
RADIATION EFFECTS IN TITANIUM CARBIDES AND CHROMIUM CARBIDES 67-02 M01-60975

COMPOSITE MATERIALS, RADIATORS
BRAZED GRAPHITE-METAL COMPOSITES FOR SPACE RADIATORS 67-04 M11-66386

COMPOSITE MATERIALS, REACTIONS /CHEMICAL/
A CONTRIBUTION TO THE QUESTION OF COMPATIBILITY BETWEEN METALS AND CERTAIN HIGH MODULUS FIBERS
67-07 M09-73356
THE ELEVATED TEMPERATURE REACTIVITY IN BORON METAL MATRIX COMPOSITE MATERIALS 67-07 M09-73365

COMPOSITE MATERIALS, REFINING
LIQUATION DURING SINTERING IN THE PRESENCE OF A MOLTEN PHASE WITH INCOMPLETE WETTING OF THE SOLID COMPONENT BY THE MOLTEN PHASE
67-02 M14-59559

COMPOSITE MATERIALS, SEMICONDUCTORS
EFFECT OF ADDITIVES ON THE SEMICONDUCTOR PROPERTIES AND BEGINNING OF INTERACTION OF V2O5 WITH CARBON 67-06 M15-70264

COMPOSITE MATERIALS, SHRINKAGE
INVESTIGATION OF THE SINTERING PROCESS OF METAL-GLASS COMPOSITES 67-04 M09-66254

COMPOSITE MATERIALS, SINTERING
ACTIVATED SINTERING OF TUNGSTEN WITH SMALL ADDITIONS OF NICKEL 67-06 M09-71459

COMPOSITE MATERIALS, SOLIDIFICATION
EUTECTIC COMPOSITES BY UNIDIRECTIONAL SOLIDIFICATION 67-07 M09-73362

COMPOSITE MATERIALS, SUPERCONDUCTIVITY
50 CPS A-C LOSSES IN NIOBIUM-COPPER COMPOSITE CONDUCTORS AT 4.2 K 67-01 M16-58640

COMPOSITE MATERIALS, SURFACE PROPERTIES
INFLUENCE OF CUTTING ON SURFACE QUALITY OF ANTIFRICTION COMPOSITE MATERIALS
67-05 M09-69016
PROSPECTS FOR MANUFACTURING OF GAS TURBINE SEALS WITH CONSIDERATIONS OF PHYSICAL AND CHEMICAL FACTORS 67-05 M09-69020
SELF-LUBRICATING COMPOSITES OF POROUS NICKEL AND NICKEL-CHROMIUM ALLOY IMPREGNATED WITH BARIUM FLUORIDE-CALCIUM FLUORIDE EUTECTIC
67-05 M17-68941
ADHESION OF NITRIDES TO STEEL AND SLAG
67-06 M15-70266
SOME GENERAL ASPECTS OF INTERFACES IN COMPOSITES
67-07 M09-73354

COMPOSITE MATERIALS, THERMAL PROPERTIES
HEATING OF POROUS BODIES DURING OXIDATION
67-02 M09-61707
THERMAL STABILITY OF TUNGSTEN CARBIDE--COBALT ALLOYS 67-02 M17-59612
METHODS FOR IMPROVING THERMAL STABILITY OF HOT PRESSED ZIRCONIA 67-04 M09-66586
SINTERING PROCESS AND THERMAL EXPANSION OF SILVER-GRAPHITE 67-06 M14-72069
AFTER BORON, GRAPHITE 67-06 M15-71744
INFLUENCE OF THE NATURE OF OXIDES ON GROWTH RATE OF DISPERSION PARTICLES IN NICKEL. PT. 2
67-12 M09-83560

COMPOSITE MATERIALS, THERMAL STABILITY
STAND TESTS OF CERMET PACKING MATERIAL U MB-4S
67-06 M17-70968

COMPOSITE MATERIALS, TRANSPORT PROPERTIES
TUNNELING IN METAL-OXIDE-SILICON STRUCTURES
67-11 M16-80537

COMPOSITE MATERIALS, WEAR
MATERIALS FOR THE PROTECTION OF SURFACES AGAINST ABRASIVE WEAR 67-06 M17-70961
INVESTIGATION OF FRICTIONAL POWDER COMPOSITES FOR OPERATION IN OIL MEDIUM 67-08 M17-74909
THE EFFECT OF CERTAIN ADDITIVES ON THE WEAR RESISTANCE OF FRICTIONAL POWDER COMPOSITES
67-08 M17-74910
SOME CAUSES OF INTENSIVE WEAR OF IRON-GRAPHITE BEARINGS UNDER INCREASED LOADS
67-08 M17-74911

COMPOSITE MATERIALS, WELDING
COLD PRESSURE WELDING OF COPPER AND ALUMINIUM IN DRAWING PROCESSES 67-02 M11-61884
A METHOD FOR MANUFACTURING OF LARGE-SIZE POROUS TUBES 67-04 M09-66268
ARGON ARC WELDING OF HEAT RESISTANT SAP
67-04 M11-66837
AN ANALYTICAL INVESTIGATION OF THE TEMPERATURE DISTRIBUTIONS DURING RESISTANCE WELDING
67-07 M11-74283
METHOD OF PRODUCING LARGE POROUS PIPES
67-10 M09-79000
DESIGN EVALUATION OF PRESSURE WELDING CONDITIONS
67-11 M11-80550

COMPOSITES
SEE COMPOSITE MATERIALS

COMPOSITION EFFECTS
INVESTIGATIONS OF THE SOLIDIFICATION OF RIMMING STEEL 67-07 M04-72895

COMPOSITIONS
SEE ALSO CHEMICAL COMPOSITION
STUDY ON HOMOGENEITY OF PIG IRON IN MIXER-- RADIOISOTROPE TRACER TECHNIQUE
67-02 M04-60165

COMPRESSED AIR
INTENSIFICATION OF OPENHEARTH MELTING BY HIGH-PRESSURE COMPRESSED AIR 67-05 M04-69681

COMPRESSIBILITY
ELASTIC CONSTANTS OF CADMIUM FROM 300 TO 575 K
67-01 M17-57117
STUDY OF THE PRESSIBILITY OF METAL POWDERS OF DIFFERENT DISPERSITY 67-02 M09-62119
THE ROLLING COEFFICIENTS OF METAL POWDERS
67-02 M09-62121
HEAT CAPACITY OF ALPHA URANIUM FROM 1.7 TO 25 K
67-02 M15-60770
X-RAY DIFFRACTION STUDIES ON CDTE AT HIGH PRESSURE
67-03 M13-65719
THERMODYNAMICS OF SHOCK COMPRESSION OF METALS
67-03 M15-65120
SHOCK-WAVE COMPRESSION OF 30 PER CENT NI-70 PER CENT FE ALLOYS.. THE PRESSURE-INDUCED MAGNETIC TRANSITION 67-05 M15-69218
COMPRESSIBILITY AND BINDING ENERGY OF THE SIMPLE METALS 67-07 M15-73942
COMPRESSION OF MERCURY AT HIGH PRESSURE
67-07 M15-74216
CHANGE OF COMPACTNESS AND COEFFICIENT OF THE LATERAL STRAIN OF HARD ALLOYS
67-08 M15-75440

COMPRESSIBILITY /POWDER/
EFFECT OF EXPLOSIVE SHOCK WAVES ON CERAMIC POWDERS
67-03 M09-65653
A STEEL POWDER FOR HIGH DENSITY PARTS
67-08 M09-74489
COMPRESSION AND COLD ROLLING OF DISPERSION STRENGTHENED ALUMINIUM ALLOY --S.A.P.--
67-08 M17-74410
NOW--STEEL IN POWDER METALLURGY
67-10 M09-80030
IRON POWDER POISED FOR NEW BOOM
67-12 M09-81968
COMPARATIVE INVESTIGATION OF THE DRESSING AND SINTERING BEHAVIOR OF A NEW TYPE OF ELECTROLYTIC IRON POWDER 67-12 M09-81990

COMPRESSIBILITY /POWDER/, PRESSURE EFFECTS
VIBRATORY COMPACTING OF METAL POWDERS
67-07 M09-73872
EXTRUDABILITY OF KH18N15 STAINLESS STEEL POWDER
67-08 M09-74581

COMPRESSING
HYDROSTATIC COMPRESSION RESISTANCE OF POROUS CERMET MATERIALS 67-02 M09-60582
FORCE ANALYSIS IN COMPRESSION AND EXTRUSION USING THE UPPER BOUND SOLUTION 67-10 M08-79785

COMPRESSION
SEE COMPRESSING

COMPRESSION CASTING
SEE PRESSURE CASTING

COMPRESSION IGNITION ENGINES
SEE DIESEL ENGINES

COMPRESSION MOLDING
SEE PRESSURE MOLDING

COMPRESSION STRENGTH
SEE COMPRESSIVE STRENGTH

COMPRESSION TESTS

COMPRESSION TESTS

COMPRESSIVE DEFORMATION AND STRUCTURE IN SINTERED ALUMINUM PRODUCTS --S. A. P.-- 67-02 M17-60261
DEFORMATION OF ALUMINIUM SINGLE CRYSTALS AT HIGH STRAIN RATES 67-02 M17-60274
THE CREEP TESTING OF METALS 67-02 M17-61537
BENDING FATIGUE STRENGTH OF GEARS 67-03 M17-65199
COMPRESSION OF BERYLLIUM PARALLEL TO THE C-AXIS 67-03 M17-65267
ON THE SUPERIMPOSING OF ULTRASONIC VIBRATION DURING COMPRESSIVE DEFORMATION OF METALS 67-03 M17-65838
EFFECTS OF SUPERIMPOSED ULTRASONIC VIBRATION ON COMPRESSIVE DEFORMATION OF METALS 67-03 M17-65839
DEFORMATION RESISTANCE OF CERTAIN DUCTILE METALS IN DEFORMATION AT A HIGH RATE 67-04 M17-67155
STRAIN-RATE DEPENDENCE OF THE FLOW STRESS FOR BASAL SLIP IN ZINC 67-04 M17-67582
BUCKLING STRENGTH OF CURVED BERYLLIUM PANELS IN COMPRESSION 67-04 M17-67890
MICROPLASTICITY OF URANIUM DIOXIDE AT ROOM TEMPERATURE 67-05 M17-68571
PROPERTIES OF BKA BABBIT AT ELEVATED TESTING TEMPERATURES 67-06 M17-70176
DETERMINATION OF TOUGHNESS OF HARD STEELS BY STATIC COMPRESSION TESTING AND BY TORSION TESTING 67-06 M17-70825
MEASUREMENT OF THE MECHANICAL PROPERTIES OF SOLIDS AT HIGH PRESSURE 67-07 M17-72808
THE INFLUENCE OF THE INTERMEDIATE PRINCIPAL STRESS ON FATIGUE UNDER TRIAXIAL STRESSES 67-08 M17-74682
THE COMPUTATION OF VIBRATIONS, FORCES AND COMPRESSIONS DURING DROP FORGING TESTS 67-08 M17-75570
DEFORMATION OF POLYCRYSTALLINE ALUMINIUM AT HIGH STRAIN RATES 67-08 M17-75755
DEFORMATION PROPWETIES OF THE ALPHS PLUS BETA TITANIUM ALLOY, TIAL 8 MO 1 V 1 67-08 M17-76150
EXPERIMENTS ON THE DEFORMATION OF NIOBIUM SINGLE CRYSTALS. PT. 2. ELECTRON MICROSCOPE STUDY OF DISLOCATION STRUCTURES 67-09 M13-76586
PLASTIC FLOW OF MARTENSITE 67-09 M13-76594
DEFORMATION OF POLYCRYSTALLINE TRANSITION METAL CARBIDES 67-09 M17-76399
EXPERIMENTS ON THE DEFORMATION OF NIOBIUM SINGLE CRYSTALS. PT. 1. STRESS VERSUS STRAIN CURVES AND SLIP SYSTEMS IN COMPRESSION AND TENSION 67-09 M17-76585
PREDICTION OF EXTRUSION PRESSURES IN THE COLD FORGING OF STEEL 67-12 M07-82767
PLASTICITY OF MAGNESIUM CRYSTALS 67-12 M17-82763
A PLASTIC STRESS ANALYSIS OF CYLINDRICAL WAFERS UNDER ELASTICALLY DEFORMABLE COMPRESSION PLATES 67-12 M17-83250

COMPRESSION TESTS, ULTRASONICS
COMPRESSIVE DEFORMATION AFFECTED BY SUPERIMPOSED ULTRASONIC VIBRATION 67-08 M17-74411

COMPRESSIVE CREEP
SEE COLD FLOW

COMPRESSIVE MODULUS
SEE MODULUS OF ELASTICITY

COMPRESSIVE PROPERTIES
THE ANOMALOUS CHANGE IN VOLUME OF THE MIXED CRYSTAL SERIES --FE, CR--3C AND ITS SPECIFIC THERMOCHEMICAL AND MAGNETIC BEHAVIOR 67-09 M15-77197

COMPRESSIVE PROPERTIES, STRESS EFFECTS
STUDY OF THE DEPENDENCE OF MECHANICAL PROPERTIES ON THE STRAIN RATE. PT. 4 67-09 M17-78227
DEFORMATION OF ZINC SINGLE CRYSTALS AT HIGH STRAIN RATES 67-09 M17-78229

COMPRESSIVE STRENGTH
PRESENT USE OF HIGH-STRENGTH STEEL FOR BRIDGE AND PENSTOCK STRUCTURES 67-02 M17-59965
HIGH-PRESSURE, HIGH-TEMPERATURE CERAMIC STRUCTURES 67-03 M17-65344
PRODUCTION OF METALLIZED PELLETS USING CRUDE NATURAL GAS AS THE REDUCING AGENT 67-04 M02-66201
CONTROL AND AUTOMATION OF THE DWIGHT-LLOYD PROCESS 67-04 M04-68048
STRESS IN A MILD STEEL SURFACE IMPREGNATED WITH NITROGEN 67-04 M17-66945
DEFORMATION RESISTANCE OF CERTAIN DUCTILE METALS IN DEFORMATION AT A HIGH RATE 67-04 M17-67155
STRENGTH CHARACTERISTICS OF POROUS MATERIALS OF REFRACTORY COMPOUNDS 67-04 M17-67343
COMPRESSION TEST ON CONCRETE-FILLED STEEL-TUBE COLUMN--ESPECIALLY ON BEARING-TYPE STRUCTURAL STEEL-TUBE COLUMN 67-04 M17-67515
CERTAIN FACTORS AFFECTING THE QUALITY OF A SELF-FLUXED SINTER 67-05 M02-69253
PROPERTIES OF BKA BABBIT AT ELEVATED TESTING TEMPERATURES 67-06 M17-70176
STRUCTURAL REINFORCED PLASTIC SANDWICH FACINGS VERSUS OTHER COMPOSITE STRUCTURES 67-06 M17-70619
STUDY OF THE HEMATITE-BONDING MECHANISM IN IRON-ORE PELLETS 67-07 M17-72570
RELATIONSHIP BETWEEN STRUCTURE, CREEP BEHAVIOR, AND HARDNESS OF ALLOYS IN THE WC-TIC-CO SYSTEM 67-07 M17-72679
STRENGTH OF IRON-ZINC ALLOY LAYERS 67-07 M17-73234
THE COMPRESSIVE STRENGTH OF CAST IRON AND STEEL 67-07 M17-74035
THE SIGNIFICANCE OF THE ELASTICITY MODULUS, COMPRESSIVE STRENGTH AND THE EXPANSION OF REFRACTORY MATERIALS IN FURNACE AND OVEN DESIGN. PT. 1 67-08 M17-74560
DEVELOPMENT OF MGO HEAT EXCHANGE MEDIA 67-09 M05-77962
COMPRESSIVE STRENGTH OF MILD STEEL AT HIGH STRAIN RATE AND AT HIGH TEMPERATURE 67-10 M17-79877
MECHANICAL PROPERTIES OF METAL IMPREGNATED GRAPHITES 67-12 M17-82811
THE QUALITY ANALYSIS OF UNALLOYED WHITE IRON 67-12 M17-83483
STRENGTH OF HIGH STRENGTH STEEL STRUCTURE 67-12 M20-82924
HIGH STRENGTH STEELS IN DEEP SUBMERSIBLES 67-12 M20-82987

COMPRESSIVE STRENGTH, HEATING EFFECTS
THE TENSILE DEFORMATION OF OVERAGED COPPER-1.8 WT. PER CENT BERYLLIUM SINGLE CRYSTALS 67-06 M17-72230

COMPRESSIVE STRENGTH, STRESS EFFECTS
MECHANICAL AND ELECTRICAL PROPERTIES OF BERYLLIUM WIRE 67-07 M17-73755

COMPRESSIVE STRENGTH, TEMPERATURE EFFECTS
COMPRESSIVE DEFORMATION AND STRUCTURE IN SINTERED ALUMINUM PRODUCTS --S. A. P.-- 67-02 M17-60261
EDGEWISE COMPRESSIVE PROPERTIES OF TITANIUM AND NICKEL-BASE SANDWICH CONSTRUCTIONS AT ELEVATED TEMPERATURES 67-05 M17-68932

COMPRESSIVE YIELD STRENGTH
SEE COMPRESSIVE STRENGTH
YIELD STRENGTH

COMPRESSOR BLADES
METAL-MATRIX COMPOSITE MATERIALS FOR AIRCRAFT COMPRESSOR BLADES 67-07 M09-73347

COMPRESSOR BLADES, COATING
THE PREVENTION OF METAL PART FAILURE BY THE USE OF PROTECTIVE COATINGS 67-07 M12-74244

COMPRESSOR BLADES, MECHANICAL PROPERTIES
A MODEL SYSTEM TO SIMULATE CREEP OF COMPOSITES 67-08 M17-76257

COMPRESSORS
SEE ALSO AIR COMPRESSORS
CENTRIFUGAL COMPRESSORS

COMPRESSORS, MATERIALS
INCREASING THE LIFE OF COMPRESSOR VALVE PLATES 67-04 M18-66346

COMPRESSORS, STRUCTURAL MATERIALS
RESEARCH INTO TITANIUM ALLOYS FOR USE IN COMPRESSORS 67-10 M18-78371

COMPTON EFFECT
SEE ELASTIC SCATTERING
INCOHERENT SCATTERING

COMPTON SCATTERING
SEE ELASTIC SCATTERING
INCOHERENT SCATTERING

COMPUTER COMPONENTS
FABRICATION OF COMPUTER MEMORY STORES BY ELECTROPHORESIS--DEPOSITION OF FERRITES ON TO PLATINUM WIRES 67-10 M12-78721

COMPUTER COMPONENTS, HEAT TREATMENT
HEAT TREATING .. A PRECISION TOOL 67-04 M10-66302
ETCHING AND HARDENING OF PRINT BARRELS 67-12 M10-82397

COMPUTER COMPONENTS, WELDING

SHORT CYCLE PROJECTION STUD WELDING
67-12 M11-82817

COMPUTERS
SEE ALSO ANALOG COMPUTERS
DIGITAL COMPUTERS
ELECTRONIC COMPUTERS
SCHEMATIC OF A COMPUTER APPARATUS FOR DETERMINING CARBON CONTENT IN OPENHEARTH POOL
67-01 M04-57195
CERTAIN PROBLEMS IN OBTAINING INFORMATION ON THE COURSE OF OPENHEARTH MELTING 67-01 M04-57253
COMPUTER CONTROL OF THE BASIC OXYGEN PROCESS
67-01 M04-57906
USE OF COMPUTERS FOR CENTRALIZED CONTROL OF TITANIUM SPONGE MANUFACTURING
67-02 M03-59195
FUTURE DEVELOPMENTS IN CONTINUOUS CASTING
67-02 M04-59139
INSTRUMENT ANALYSIS AT THE TOKAI IRON AND STEEL WORKS 67-02 M04-60758
SOME PROBLEMS IN OBTAINING WORKING INFORMATION ON THE TECHNOLOGICAL PARAMETERS OF OPENHEARTH PRODUCTION 67-02 M04-61207
PROPORTIONING CUPOLA CHARGE MATERIALS USING A COMPUTER 67-02 M04-61229
USE OF A COMPUTER IN PLOTTING A GRAPH OF IRON TAPPINGS 67-02 M04-61863
DETERMINING A DYNAMIC MODEL OF A BLAST FURNACE
67-02 M04-62280
CONTROL ALGORITHMS FOR A SYSTEM OF AUTOMATION OF ROLLING IN SLABBING AND BLOOMING MILLS
67-02 M07-60734
IMPROVED EFFICIENCY OF ROLL CHANGE OPERATION AT SHAPE MILL BY USING PERT METHOD
67-02 M07-60756
ALGORITHM FOR CALCULATING REDUCTION IN A BLOOMING MILL 67-02 M07-61217
COMPUTERS CONTROL TUBE ROLLING 67-02 M07-61855
A CONTROL ALGORITHM FOR AN AUTOMATING SYSTEM FOR PLATE MILLS 67-02 M07-62237
COMPUTERS AND PLATING--A PRELIMINARY GLIMPSE OF 21ST CENTURY OPERATIONS 67-02 M12-60685
NEW METHOD FOR THE DETERMINATION OF AUSTENITE IN STEELS 67-02 M13-60693
COMPUTER APPLICATIONS IN THE CONTROL OF THE LD PROCESS IN A CONVERTER STEEL WORKS
67-03 M04-65077
RESEARCH TEAM LEANS ON COMPUTER TO CONTROL WELD VARIABLES 67-03 M11-65618
ELECTRICAL WORKING CONDITIONS FOR ELECTRIC FURNACES INVESTIGATED BY STATISTICAL ECONOMICS USING PUNCHED CARD COMPUTERS 67-04 M04-66209
TWO EXAMPLES OF COMPUTER USE IN THE IRON MAKING INDUSTRY 67-04 M04-66675
WORKING OUT THE PIG-IRON CASTING SCHEDULE WITH THE AID OF A COMPUTER 67-04 M04-67682
DISPENSING CUPOLA CHARGE MATERIALS WITH THE AID OF COMPUTERS 67-04 M04-68090
DIGITAL TRACKING SYSTEM 67-04 M07-66403
THE STUDY, BY COMPUTER, OF THE STRESSED AND DEFORMED STATES IN STRUCTURES MADE OF WELDED NARROW PLATES 67-04 M11-67352
CALCULATING WELDING DEFORMATIONS WITH ELECTRONIC DIGITAL COMPUTERS 67-04 M11-67353
USE OF COMPUTERS FOR CALCULATING STRESS-STRAIN STATE OF ROLLING ROLLS. PT. 1
67-04 M17-66083
SINTER PLANT CONTROL 67-05 M02-69170
AUTOMELT SYSTEM FOR BASIC OXYGEN STEELMAKING COMPUTER CONTROL 67-05 M04-68602
INDUSTRIAL COMPUTER APPLICATIONS IN THE MANUFACTURE OF CAST IRON AND STEEL 67-05 M04-69138
OXYGEN STEELMAKING 67-05 M04-69172
USING A DIGITAL COMPUTER FOR CONTROLLING THE MELT IN AN OXYGEN CONVERTER 67-05 M04-69679
ADAPTIVE CONTROL UPGRADES HOT ROLLING MILL
67-05 M07-69152
REVERSING HOT MILLS AND THEIR AUXILIARIES
67-05 M07-69176
CONTINUOUS HOT MILLS 67-05 M07-69177
THEORETICAL ASPECTS OF HOT MILL AUTOMATION
67-05 M07-69178
COLD MILLS 67-05 M07-69179
CONTROLLING MODERN FLYING SHEARS
67-05 M08-69181
INLANDS NO. 5 BLAST FURNACE IS SUPERVISED BY COMPUTER 67-05 M19-69491
OPERATION OF AN ELECTRIC ARC FURNACE BY MEANS OF A PROCESS CONTROL COMPUTER 67-06 M04-70198
MCLOUTH STEEL INSTALLING SLAB INDUCTION HEATING FACILITY FOR CONTINUOUS OPERATION
67-06 M04-71004
INSTANTANEOUS THERMAL BALANCES SERVE AS AUTOMATION AID IN OPENHEARTH HEAT CONTROL
67-06 M04-71362
DESIGN AND OPERATION OF A FLAME TEMPERATURE COMPUTER ON A BLAST FURNACE 67-06 M04-72079
INTRODUCTION OF COMPUTER CONTROL TO THE BLAST FURNACE 67-06 M04-72130
HOT SHEET-ROLLING MILL UNDER COMPUTER CONTROL
67-06 M07-70249
SYSTEMATIC APPROACHES TO MACHINING DATA FOR AEROSPACE ALLOYS 67-06 M08-71482
THE RECORDING OF A STRESS-STRAIN-CURVE EMPLOYING AN ELECTRONIC COMPUTER 67-06 M17-71865
CALCULATING CARBON IN THE OPENHEARTH BATH
67-06 M19-70739
DIGITAL COMPUTER USED FOR CONTROLLING OXYGEN-BLOWN CONVERTER BLOWS 67-07 M04-74065
PROCESS CONTROL ON THE POURING FLOOR
67-07 M06-73613
THE APPLICATION OF COMPUTERS IN AN ELECTRIC-ARC MELTING SHOP 67-07 M06-74011
TECHNICAL AND ECONOMIC CONSIDERATIONS IN PLATE MILL PROCESS CONTROL 67-07 M07-72427
OPTIMIZING THE PERFORMANCE OF A UNIVERSAL PLATE MILL BY COMPUTER 67-07 M07-72801
ALUMINUM HOT ROLLING LINE HAS ALL-STATIC POWER SUPPLIES 67-08 M07-75702
DIGITAL TEMPERATURE MEASUREMENTS WITH IMMERSION THERMOCOUPLES 67-08 M19-75114
CLOSED-LOOP COMPUTER CONTROL OF BASIC OXYGEN STEELMAKING 67-09 M04-76671
COMPUTER APPLICATION TO THE VISIOPLASTICITY METHOD
67-09 M07-76463
PROCESS ANALYSIS OF THE OPERATION OF A TWO-TON HOT BLAST CUPOLA 67-10 M06-79559
DIGITAL COMPUTER FOR A TELEVISION GAGE FOR MEASURING THE LENGTH OF HOT BLOOMS
67-10 M07-80054
OXYGEN CONVERTER SUBMITS TO DIGITAL CONTROL
67-11 M04-81309
RATE OF DECARBURIZATION AND DECARBURIZATION IN STEELMAKING IN THE OXYGEN CONVERTER
67-11 M04-81373
ANALYTICAL CALCULATION OF CERTAIN TECHNOLOGICAL FACTORS AND SINTER GRADE AFFECTING BLAST FURNACE PERFORMANCE 67-11 M04-81462
USE OF COMPUTERS TO CONTROL OXYGEN CONVERTERS
67-11 M04-81612
CONTRIBUTION TO X-RAY SPECTROCHEMICAL TRACE ANALYSIS. THE DIRECT DETERMINATION OF SMALL CONTENTS OF AL, SB, NB, P, SI, V, SN AND ZR IN STEEL 67-11 M19-81376
A COMPUTER MODEL OF THE SLAG-FUMING PROCESS FOR RECOVERY OF ZINC OXIDE 67-12 M03-82765
DEVELOPMENT AND OPERATION OF BOF DYNAMIC CONTROL. PT. 1 67-12 M04-82884
CONTINUOUS IRON PROCESS NEARS PILOT PLANT
67-12 M04-82991
RELATIONSHIP BETWEEN THE DIFFUSION OF C AND THE DISTRIBUTION OF TEMPERATURE WITHIN A CHARGE
67-12 M10-82841
REHEATING FURNACES FOR CONTINUOUS STEELMAKING
67-12 M10-82929
A MODEL FOR CONCENTRATED INTERSTITIAL SOLID SOLUTIONS--ITS APPLICATION TO SOLUTIONS OF CARBON IN GAMMA IRON 67-12 M14-82574
A COMPUTER ANALYSIS OF GAS-METAL DIFFUSION
67-12 M14-83070
COMPUTER CALCULATION OF THE THERMAL AND ELECTRICAL PHENOMENA IN THE CATHODES OF ALUMINUM ELECTROLYTIC CELLS 67-12 M15-82756
CRYSTAL CHEMICAL CAUSES OF CONTROL OF THE MAGNETIC INDUCTION OF FERRITES 67-12 M15-82800
COMPUTERIZED LONG-TERM CORROSION DATA
67-12 M18-81963

COMPUTERS, BLAST FURNACE PRACTICE
NONCONTACT CONTROL OF BLAST FURNACE CHARGING
67-06 M04-71378

COMPUTERS, IRONMAKING
STATISTICAL FORECASTING OF LADLE IRON CHEMISTRY
67-08 M04-74887

COMPUTERS, MATERIALS
CRYSTALLOCHEMICAL CAUSES OF CONTROL OF MAGNETIC INDUCTION OF FERRITES 67-06 M15-71479
ELECTRONIC PROPERTIES AND APPLICATIONS
67-07 M16-73688

CONCAST
SEE CONTINUOUS CASTING
CONCENTRATING
THE CONCENTRATION AND PELLETIZING OF TACONITE. PT. 3 67-04 M02-66115
ADVANCES IN CONCENTRATION TECHNIQUES OF LEAD-ZINC ORES 67-10 M02-79862
CONCENTRATION /COMPOSITION/
THE DISTRIBUTION OF ALLOYING ELEMENTS IN DENDRITES AND INTERDENDRITIC SPACES 67-06 M19-72155
EQUILIBRIUM VACANCY CONCENTRATION IN PURE PB AND DILUTE PB-TI AND PB-IN ALLOYS 67-07 M13-73145
ACTIVITY OF INTERSTITIAL AND NONMETALLIC SOLUTES IN DILUTE METALLIC SOLUTIONS--LATTICE RATIO AS A CONCENTRATION VARIABLE 67-12 M15-82750
NEW CONTRIBUTIONS TO THE SPECTROGRAPHIC DETERMINATION OF IMPURITIES IN URANIUM MATERIALS BY THE FRACTIONAL CARRIER DISTILLATION METHOD 67-12 M19-83493
THE USE OF X-RAY FLUORESCENCE ANALYSIS AT LOW CONCENTRATIONS. ECONOMIC CONSIDERATIONS. APPLICATION TO THE CONTROL OF CB PRODUCTION 67-12 M19-83504
CONCENTRATION /COMPOSITION/, DIFFUSION EFFECTS
DIFFUSION OF OXYGEN AND NITROGEN IN LIQUID IRON 67-06 M14-69924
CONCENTRATION /PROCESS/
SEE CONCENTRATING
CONCENTRATION /STRESS/
SEE STRESS CONCENTRATION
CONCENTRATION CELL CORROSION
SEE ALSO PITTING /CORROSION/
PROGRESS IN THE BATTLE WITH CORROSION OF AUTOMOBILES 67-10 M18-78501
CONCENTRATORS
SEE CENTRIFUGES
FLOTATION MACHINES
JIGS /CONCENTRATORS/
MAGNETIC SEPARATORS
CONCRETE CONSTRUCTION
ULTRASONIC MEASUREMENTS ON REINFORCED GRAVEL-AGGREGATE CONCRETES 67-07 M19-73073
CONCRETE REINFORCEMENT
SEE REINFORCING STEELS
CONCRETE STEEL
SEE REINFORCING STEELS
CONCRETES
SEE ALSO PRESTRESSED CONCRETE
REFRACTORY CONCRETES
REINFORCED CONCRETE
CONCRETES, CORROSION
THE CORROSION PERFORMANCE OF VARIOUS METALS IN CONCRETE 67-03 M18-65729
CONDENSATION /PROCESS/
SEE CONDENSING
CONDENSATION RESINS
SEE ALKYD RESINS
EPOXY RESINS
POLYAMIDE RESINS
POLYESTERS
POLYURETHANE RESINS
SILICONE RESINS
CONDENSER TUBES, CORROSION
WHY COPPER-NICKEL ALLOYS FOR DESALINATION 67-01 M18-57970
EFFECT OF IMMERSION TIME FOR POLARIZATION PHENOMENA OF CONDENSER TUBE IN A FLOWING NACL SOLUTION 67-06 M18-71442
SOME OPERATING CONDITIONS INFLUENCING ATTACK OF NON-FERROUS TUBULAR CONDENSER AND HEAT-EXCHANGER EQUIPMENT 67-09 M18-76633
WHY COPPER-NICKEL ALLOYS FOR DESALINATION 67-11 M18-80289
APPLICABILITY OF ALUMINUM FOR DESALINATION PLANTS 67-11 M18-80291
APPLICATION OF STEELS FOR DESALINATION PLANTS 67-11 M18-80292
CONDENSERS /ELECTRIC/
SEE CAPACITORS
CONDENSING
CONDENSATION COEFFICIENTS OF GOLD ON NACL SINGLE CRYSTALS 67-01 M15-57445
CONDITIONERS /AIR/
SEE AIR CONDITIONERS
CONDITIONING
SEE FLOTATION CONDITIONING
CONDUCTING
SEE CONDUCTION
CONDUCTING SHEET ANALOG
SEE HEAT TRANSMISSION
CONDUCTIOMETRIC ANALYSIS
CONDUCTIOMETRIC DETERMINATION OF SLAG BASICITY 67-09 M19-78003
A RESISTOMETRIC STUDY OF THE INITIAL AGING BEHAVIOR OF QUENCHED COPPER-BERYLLIUM ALLOYS 67-12 M10-83067
THE TEMPERATURE DEPENDENCE OF THE MAXIMUM ELECTRICAL RESISTANCE DURING AGING OF ALUMINUM ALLOYS 67-12 M10-83408
A RESISTOMETRIC STUDY OF PHASE EQUILIBRIA AT LOW TEMPERATURES IN THE VANADIUM-HYDROGEN SYSTEM 67-12 M15-82752
CONDUCTION
STUDY OF PHASE TRANSITION IN NBO2 67-08 M13-75251
INVESTIGATION OF THE TEMPERATURE GRADIENTS IN THE MELTING OF BILLETS IN A MULTICHAMBER ELECTRON BEAM FURNACE BY USE OF A MATHEMATICAL MODEL 67-09 M04-77217
AN ATTEMPT TO DETERMINE EXPERIMENTALLY THE PHASE VELOCITY OF A HEAT WAVE IN SEMICONDUCTING BISMUTH TELLURIDE AT ROOM TEMPERATURE 67-11 M15-80508
CONDUCTION BAND
FIELD EFFECT MEASUREMENTS ON THE A AND B --111-- SURFACES OF INDIUM ANTIMONIDE 67-03 M16-65805
IONIZATION ENERGY AND IMPURITY BAND CONDUCTION OF SHALLOW DONORS IN N-GALLIUM ARSENIDE 67-04 M16-66510
BAND STRUCTURE OF THE SEMICONDUCTING LAYER COMPOUNDS 67-04 M16-66742
OPTICAL PROPERTIES AND ELECTRONIC STRUCTURE OF AMORPHOUS GERMANIUM 67-04 M16-66747
THE STRUCTURE OF THE CONDUCTION BAND AND THE ANISOTROPY OF THE ELECTRON SCATTERING IN N-GAAS 67-04 M16-66766
SHUBNIKOV-DE HAAS EFFECT AND ELECTRON BAND STRUCTURE OF CADMIUM ARSENIDE 67-04 M16-66768
MECHANISM OF THE GUNN EFFECT 67-04 M16-66780
CONDUCTION ELECTRONS IN SOLIDS 67-05 M16-68992
COMBINED INTERPOLATION SCHEME FOR TRANSITION AND NOBLE METALS 67-05 M16-69802
INVESTIGATION OF THE NONPARABOLICITY OF THE CONDUCTION BAND OF PBTE BY THE METHOD OF MEASURING THE THERMOELECTRIC POWER IN A STRONG MAGNETIC FIELD 67-06 M15-70511
INFLUENCE OF MIXED CONDUCTION ON THE TEMPERATURE DEPENDENCE OF THE TRANSPORT COEFFICIENTS OF SEMICONDUCTORS 67-06 M15-70517
MAGNETIC AND ELECTRICAL PROPERTIES OF COPPER CONTAINING SULPHIDES AND SELENIDES WITH SPINEL STRUCTURE 67-06 M16-71172
INFLUENCE OF CONDUCTION ELECTRONS ON THE LATTICE SPECIFIC HEAT AND ELASTIC MODULI OF ALPHA-PHASE ALLOYS OF THE NOBLE METALS 67-07 M16-73940
DE HAAS-VAN ALPHEN AND GALVANOMAGNETIC EFFECT IN BI AND BI-PB ALLOYS 67-08 M16-74666
EVIDENCE FOR ABSENCE OF ELECTRONS FROM CONDUCTION BAND IN N-INSB AT LOW TEMPERATURES 67-08 M16-75003
INVERSION OF CONDUCTION AND VALENCE BANDS IN PB1-XSNXSE ALLOYS 67-09 M16-77170
ELECTROMAGNETIC AND THERMOMAGNETIC EFFECTS IN CADMIUM ARSENIDE 67-11 M15-80611
KINETICS OF OPTICAL CHARGE EXCHANGE IN COPPER-DOPED CADMIUM SULPHIDE SINGLE CRYSTALS 67-11 M15-81687
NONOHMIC PROPERTIES IN N-TYPE INSB 67-12 M15-81767
PHOTOEMISSION STUDIES OF CDTE 67-12 M16-82535
CONDUCTION BAND, ALLOYING EFFECTS
ELECTRONIC STRUCTURE OF ALPHA BRASS 67-05 M16-69801
CONDUCTION BAND, IMPURITY EFFECTS
GALVANOMAGNETIC STUDIES OF SN-DOPED BI. PT. 1. POSITIVE FERMI ENERGIES 67-05 M15-69815
CONDUCTION BAND, RADIATION EFFECTS
ANNEALING OF FAST NEUTRON DAMAGE IN IMPURITY-CONDUCTING N-TYPE GERMANIUM 67-03 M16-65892
CONDUCTION BAND, STRESS EFFECTS
BAND STRUCTURE OF GRAY TIN UNDER UNIAXIAL STRESS 67-08 M16-75004
CONDUCTION HEATING
TEMPERATURE HOMOGENEITY IN THE FURNACE CHARGE AND ITS EFFECT ON THE DESIGN AND EFFICIENCY OF

FURNACES 67-07 M10-73188

CONDUCTIVITY
SEE ALSO ELECTRON CONDUCTIVITY
HOLE CONDUCTIVITY
MAGNETORESISTIVITY
RESISTIVITY
SUPERCONDUCTIVITY
SURFACE RESISTIVITY
THERMAL CONDUCTIVITY
COMPOSITION AND PROPERTIES OF ALLOYED ALUMINUM WIRE FOR ELECTRIC CONDUCTORS 67-04 M17-68029

CONDUCTIVITY /ELECTRICAL/
SEE RESISTIVITY

CONDUCTIVITY CELLS
SEE ELECTRICAL MEASUREMENTS
ELECTROLYTIC CELLS
RESISTIVITY

CONDUCTORS /DEVICES/
SEE ALSO BUS CONDUCTORS
ELECTRIC WIRE
CONDUCTIVE COATINGS 67-08 M20-75624

CONDUCTORS /DEVICES/, CORROSION
ALTERNATING CURRENT AND ALUMINUM--TESTS DETERMINE EFFECT OF A-C ON ALUMINUM CONDUCTORS 67-05 M18-68795

CONDUCTORS /DEVICES/, ELECTRICAL PROPERTIES
TECHNICAL AND ECONOMIC COMPARISON BETWEEN ALUMINUM ALLOY CONDUCTOR AND ACSR 67-04 M15-68028
THE USE OF ALUMINUM FOR SMALL CROSS-SECTION CONDUCTORS 67-07 M20-74033
BEST ELECTRICAL MATERIALS FOR HIGH TEMPERATURE USES STUDIED 67-08 M15-76081

CONDUCTORS /DEVICES/, METAL WORKING
IMPROVED PROCESS FOR DRAWING, CLEANING AND PRECISION WINDING OF COAXIAL CENTERWIRE 67-05 M07-68672

CONDUITS /ELECTRICAL/
SEE ELECTRICAL RACEWAYS

CONDUITS /WATER/
SEE WATER PIPELINES

CONNECTING
SEE JOINING

CONNECTING RODS
CAST DIES FOR CAR PART FORGINGS 67-03 M06-65675

CONNECTING RODS, CASTING
THE CAST CONNECTING ROD 67-11 M06-81190

CONNECTING RODS, FORGING
INTRODUCING NEW DIE STEELS 67-04 M08-67037

CONNECTING RODS, HEAT TREATMENT
SOME POSSIBLE WAYS OF IMPROVING THE QUALITY, RELIABILITY AND LIFE OF MACHINE COMPONENTS BY THEIR FLUIDIZED BED HEAT TREATMENT 67-10 M10-78369

CONNECTING RODS, MACHINING
A DISCUSSION OF ELECTROCHEMICAL DEBURRING 67-12 M08-82954

CONNECTIONS
SEE JOINTS

CONNECTORS, WELDING
COMPOSITE CONSTRUCTION CALLS FOR CONNECTORS 67-06 M11-71495

CONSISTOMETERS
SEE MEASURING INSTRUMENTS
RHEOLOGICAL PROPERTIES

CONSOLIDATION
METHODS FOR IMPROVING THE DUCTILITY OF MOLYBDENUM 67-08 M09-75300

CONSTITUTIONAL DIAGRAMS
SEE PHASE DIAGRAMS

CONSTRUCTION
SEE COMPOSITE CONSTRUCTION
CONCRETE CONSTRUCTION
FILAMENT WOUND CONSTRUCTION
HONEYCOMB CONSTRUCTION
SANDWICH CONSTRUCTION

CONSTRUCTION EQUIPMENT
WEAR-RESISTANT BUILDUP OF PIECES OF BUCKET EXCAVATOR CHAINS 67-04 M12-66813
WEAR-RESISTANT STEEL 67-04 M17-66102

CONSTRUCTION EQUIPMENT, COATING
HIGH-FREQUENCY BUILDUP OF THIN-SHEET PIECES WITH WEAR-RESISTANT ALLOYS 67-02 M11-59519
BUILD-UP RECLAMATION OF GUIDING ARCS IN DONBASS COAL COMBINES 67-02 M11-59522
IMPROVING THE SERVICE LIFE OF EXCAVATOR BUCKET TEETH BY DEPOSIT WELDING WITH POWDER ELECTRODES 67-02 M12-61253
LENGTHENING THE LIVES OF EXCAVATOR SCOOP TEETH 67-04 M12-66526

CONSTRUCTION EQUIPMENT, MATERIALS
USS CHAR-PAC --HEAT TREATED CARBON PLATE STEEL-- 67-04 M01-68068
WEAR RESISTANCE AND FRICTION OF QUENCHED AUSTENITIC MANGANESE-CONTAINING CAST IRON 67-04 M17-66455
RESISTANCE TO WEAR AND RUNNING IN OF TEMPERED AUSTENITIC MANGANESE CAST IRON 67-11 M17-80996

CONSTRUCTION EQUIPMENT, WEAR
BUILDING UP EXCAVATOR BUCKET LINE COMPONENTS WITH WEAR-RESISTANT METAL 67-08 M12-75917

CONSTRUCTION EQUIPMENT, WELDING
THE WELDING OF HEAVY MACHINERY AND APPARATUS 67-10 M11-78644

CONSTRUCTION MACHINERY
SEE CONSTRUCTION EQUIPMENT

CONSTRUCTION MATERIALS
SEE ALSO BRICK
CEMENTS
CONCRETES
FIREBRICK
PRESTRESSED CONCRETE
REFRACTORY CONCRETES
REINFORCED CONCRETE
REINFORCING STEELS
SILICA BRICK
STRUCTURAL MATERIALS
STRUCTURAL STEELS
DESIGN FACTORS FOR STRUCTURAL ENGINEERING 67-08 M20-74822
BUILDING CONSTRUCTION 67-08 M20-74823
STRUCTURES FOR HIGHWAY, ELECTRICAL, PETROLEUM AND OTHER ENGINEERING APPLICATIONS 67-08 M20-74824

CONSUMABLE ELECTRODE PROCESSES
CONSUMABLE ELECTRODE MELTING OF ALUMINUM ALLOYS IN VACUUM ARC FURNACE 67-02 M03-61622
CONSUMABLE VACUUM ARC MELTED INGOT 67-02 M04-58938
CONSUMABLE ELECTROFLUX REMELTING--THE HOPKINS PROCESS. PT. 2 67-03 M04-65472
CONSUMPTION OF ELECTRODES IN ARC FURNACE 67-04 M04-66210
CERTAIN POWER PARAMETERS OF THE ARGON SHIELDED ARC FROM A CONSUMABLE ELECTRODE 67-04 M11-67351
A NEW LARGE-SCALE INSTALLATION FOR THE MELTING AND CASTING OF OFHC COPPER IN A YUGOSLAV COPPER MILL 67-05 M06-69310
CONSUMABLE REMELTING WITH THE HOPKINS PROCESS 67-06 M04-70128
CONSUMABLE-ARC VACUUM MELTED STEEL FOR FORGINGS 67-09 M04-76506
THE MELTING OF NI-CR BASE ALLOYS IN A HIGH VACUUM 67-11 M03-80842
VACUUM MELTED SPECIAL ALLOYS FOR AEROSPACE APPLICATIONS 67-11 M04-80564
FLUX CORED WIRE --NO GAS-- PROCESS FOR STEEL 67-11 M11-81005

CONSUMPTION
SEE FUEL CONSUMPTION

CONTACT ANGLE
ON INTERFACIAL PROPERTIES BETWEEN MOLTEN SILVER, COPPER, NICKEL AND THESE BINARY ALLOYS AND MOLTEN SLAG 67-06 M14-70789

CONTACT BONDING
SEE BONDING

CONTACT MELTING, RADIATION EFFECTS
REDISTRIBUTION OF IMPURITIES IN METALS DURING IRRADIATION AND RECOVERY 67-04 M16-67388

CONTACT POTENTIALS
SOME WORK FUNCTIONS OF VAPOR DEPOSITED URANIUM ON POLYCRYSTALLINE TUNGSTEN FOIL 67-10 M15-79570
CONTACT POTENTIAL DIFFERENCE BETWEEN THE --111-- AND --111-- SURFACES OF INSB CLEAVED IN ULTRAHIGH VACUUM 67-10 M15-79574

CONTACT TESTING
SEE ULTRASONIC TESTING

CONTACTS /ELECTRIC/
SEE ELECTRIC CONTACTS

CONTAINERS
SEE ALSO BARRELS /CONTAINERS/
CANS
DEWAR FLASKS
DRUMS /CONTAINERS/
NEW TECHNIQUES IN RIGID METAL CONTAINER MANUFACTURE 67-01 M08-57548

CONTAINERS

HIGH STRENGTH LOW CARBON STEELS IN RIGID PACKAGES 67-01 M20-57985
PROPERTIES OF OXYGEN-CONVERTER VKST. 3KP STEEL 67-05 M17-69042

CONTAINERS, COATING
CORUNDIZATION--A NEW PROTECTIVE METHOD FOR ANNEALING AND HARDENING VESSELS OF CHROMIUM-NICKEL STEEL AGAINST SULFURIZATION AND CARBURIZATION 67-01 M18-58721
SOME NEW APPROACHES TO THE USE OF LEAD IN THE CONSTRUCTION OF CHEMICAL PIPES AND CONTAINERS 67-09 M20-76614
CHROMIUM COATED STEEL FOR CONTAINER APPLICATION 67-10 M12-78619

CONTAINERS, CORROSION
SOME CORROSION PHENOMENA AND THEIR PREVENTION 67-05 M18-68610
IMPROVING THE CAUSTIC BRITTLENESS RESISTANCE OF WELDED VESSELS 67-05 M18-69402
IMPROVING THE RESISTANCE OF WELDED CONTAINERS TO ALKALINE BRITTLENESS 67-10 M18-78506
DESIGNING STAINLESS PROCESSING EQUIPMENT--WAYS TO BRIDGE THE EXPERIENCE GAP 67-11 M18-81198

CONTAINERS, EXTRUSION
FABRICATION OF VARIOUS TYPES OF AEROSOLS 67-02 M08-59819
COLD EXTRUSION HEADS FOR BIGGER PARTS, BIGGER MARKETS 67-12 M08-82599

CONTAINERS, WELDING
WELDING OF APPARATUS FROM TI-CLAD BIMETALS 67-04 M11-66347
THE GAS-SHIELDED WELDING OF ALUMINIUM IN CONTAINER MANUFACTURE, WITH SPECIAL REFERENCE TO LOW-TEMPERATURE TECHNOLOGY 67-12 M11-81964

CONTAMINANTS
ELECTRON MICROSCOPE STUDY OF NIOBIUM CONTAMINATED BY INTERSTITIAL ELEMENTS 67-02 M14-58926

CONTAMINATING
SEE CONTAMINATION

CONTAMINATION
SPECIMEN CONTAMINATION IN ELECTRON-PROBE MICROANALYSIS AND ITS PREVENTION USING A COLD TRAP 67-04 M13-66246
GASES IN METALS 67-08 M15-74559
DISTRIBUTION OF INTERNAL DEFECTS IN COLD ROLLED 08KPVG STEEL SHEET CAPPED IN VARIOUS WAYS IN THE MOLDS 67-10 M07-79815

CONTINUOUS ANNEALING
CONTINUOUS HEAT TREATMENT OF AN AUSTENITIC STRIP BY DIRECT RESISTANCE HEATING 67-04 M10-66015
GAS SPEEDS ALUMINUM ANNEALING 67-04 M10-66130
HIGH SPEED STRAND ANNEALING OF COPPER WIRE 67-04 M10-66711
COMMISSIONING A NEW ROLLER-HEARTH TUNNEL FURNACE FOR THE HEAT TREATMENT OF TUBES OF STEEL SHKH15 67-04 M10-68198
STRIP-FLOATING SYSTEM FOR CONTINUOUS FURNACES 67-06 M10-70250
EQUIPMENT FOR THERMAL TREATMENT OF NONFERROUS METAL STRIP IN THE FORM OF A CONTINUOUS STRAND 67-06 M10-71941
CONTINUOUS ANNEALING OF MILD STEEL STRIP 67-06 M10-71942
TITANIUM IS BEING READIED FOR MAJOR ROLE IN SST DESIGN 67-08 M07-76080
INVESTIGATION ON THE EFFECT OF A SHORT-TIME RECRYSTALLIZING ANNEALING TREATMENT ON THE MECHANICAL TECHNOLOGICAL PROPERTIES OF UNALLOYED THIN STEEL STRIP, POOR IN CARBON, UNDER PARTICULAR CONSIDERATION OF QUENCH AGING 67-08 M10-75393
MANUFACTURE OF MILDER STEEL SHEET BY CONTINUOUS ANNEALING PROCESS 67-09 M10-77333
ANNEALING CHARACTERISTICS OF NICKEL ALLOY STEELS 67-12 M10-81810

CONTINUOUS ANODIZING
SEE ANODIZING
CONTINUOUS COATING

CONTINUOUS CAST SHAPES, ROLLING
INVESTIGATION OF ROLLED PRODUCTS FROM CONTINUOUSLY CAST RECTANGULAR BILLETS 67-09 M07-77634
ROLLING CONTINUOUSLY CAST RECTANGULAR STEEL BILLETS 67-11 M07-80922

CONTINUOUS CAST SHAPES, WELDING
CAST-WELD FABRICATION SPURRED BY ELECTROSLAG PROCESS 67-06 M11-71009

CONTINUOUS CASTING
SEE ALSO DIRECT CHILL CASTING
HEAT CONDITIONS FOR PRODUCING THIN-WALLED PIECES FROM MELT 67-01 M03-57317
THE EFFECT OF CASTING AND SOLIDIFICATION CONDITIONS ON THE PROPERTIES OF ROLLED AND FORGED PRODUCTS 67-01 M04-57916
APPLICATION OF ALTERNATING ELECTROMAGNETIC FIELDS IN THE CONTINUOUS CASTING OF STEEL 67-01 M04-57932
DEVELOPMENT IN RECENT STEELMAKING TECHNOLOGY IN JAPAN 67-01 M04-58262
PRODUCTION OF COPPER WIRE ROD BY DIPFORMING. PT. 1 67-01 M06-58531
QUALITY OF NICKEL INGOTS PRODUCED BY SEMICONTINUOUS CASTING 67-02 M03-60570
OPERATING EXPERIENCE OF THE HORIZONTAL CASTING MACHINE IN THE CONTINUOUS CASTING OF BRONZE 67-02 M03-60966
CONTINUOUS CASTING OF NON-FERROUS METAL BILLETS AND SLABS. PT. 1 67-02 M03-61644
THE CONTINUOUS CASTING OF SMALL CROSS SECTIONS 67-02 M04-59133
THE APPLICATION OF NONSTATIONARY ELECTROMAGNETIC FIELDS IN THE CONTINUOUS CASTING OF STEEL 67-02 M04-59135
FUNDAMENTAL PROBLEMS AND THE PRACTICE OF THE CONTINUOUS CASTING OF WIDE SLABS 67-02 M04-59136
FUTURE DEVELOPMENTS IN CONTINUOUS CASTING 67-02 M04-59139
BOF PLUS CC EQUALS HIGH PRODUCTION 67-02 M04-59467
MODELING THE PROCESS OF POURING STEEL INTO MULTISECTION CRYSTALLIZERS 67-02 M04-61741
CRYSTALLIZERS FOR CONTINUOUS CASTING OF WIDE SLABS 67-02 M04-62142
MODELING THE CONTINUOUS CASTING OF STEEL 67-02 M04-62143
PRODUCTION OF COPPER WIRE ROD BY DIPFORMING. PT. 2 67-02 M06-58801
EFFICIENT GRADING OF CAST IRON PIPES FOR CENTRIFUGAL AND SEMICONTINUOUS CASTING 67-02 M06-59174
SOLIDIFICATION OF SEMI-CONTINUOUS CAST IRON PIPES 67-02 M06-61907
THE EQUIPMENT OF THE CONTINUOUS BILLET MILL AT KOKURA STEEL WORKS BLOOMING SHOP 67-02 M07-58851
THE PRODUCTION OF TUBES FROM CONTINUOUSLY CAST MATERIAL 67-02 M07-59134
CONFIDENCE IN ALUMINIUM 67-02 M07-59487
CAST TEXTURES AND MACROMOSAIC STRUCTURES IN CONTINUOUSLY CAST ALUMINUM 67-02 M13-59731
THE EFFECT OF SECONDARY COOLING ON THE GROWTH OF THE WALL THICKNESS IN CONTINUOUS CASTING 67-02 M14-59132
THE DEFORMATION OF CONTINUOUSLY CAST SMALL CROSS SECTIONS 67-02 M17-59137
PROPERTIES OF CONTINUOUSLY CAST PRODUCTS 67-02 M17-59138
HOT TEARING IN SEMI-CONTINUOUSLY CAST PIPES 67-02 M17-61190
CONTINUOUS CASTING OF NON-FERROUS METAL BILLETS AND SLABS. PT. 2 67-03 M03-65500
TRENDS IN CONTINUOUS CASTING 67-03 M04-65483
ELONGATED NOZZLES FOR CASTING STEEL IN CONTINUOUS CASTING STEEL INSTALLATIONS 67-03 M04-65907
PRODUCTION OF ZIRCONIA NOZZLES FOR CONTINUOUS CASTING OF STEEL 67-03 M05-65302
PRODUCING INGOTS OF OXYGEN-FREE COPPER 67-04 M03-66976
FROM LIQUID TO SOLID CONTINUOUSLY--IMPROVED BRONZE CASTING INSTALLATIONS 67-04 M03-67763
EXPERIENCE IN SEMICONTINUOUS CASTING OF ALUMINUM BRONZES IN CZECH METALS PLANTS 67-04 M03-67856
CONTINUOUS CASTING 67-04 M03-67910
CONTINUOUS CASTING OF TUBE STEEL 67-04 M04-66735
MELTING AND CONTINUOUS CASTING OF SLABS FROM KILLED OPENHEARTH AND CONVERTER MEDIUM CARBON STEELS 67-04 M04-66853
CONTINUOUS CASTING AND ROLLING WIDE-FLANGE BEAM BLANKS 67-04 M04-67188
LUBRICATION IN THE CONTINUOUS CASTING PROCESS 67-04 M04-67752
EFFECTS OF THE INTERNAL SHAPE OF THE MOLD ON THE SURFACE FINISH OF MEDIUM-CARBON STEEL SLABS 67-04 M04-67861
CONTINUOUS CASTING OF STEEL FOR TINPLATE 67-04 M04-68034

WISCONSIN STEELS 8-STRAND CONTINUOUS CASTING INSTALLATION 67-04 M04-68104
AMERICAN IRON AND STEEL INSTITUTE REGIONAL TECHNICAL MEETING. EXPERIENCES WITH CONTINUOUS CASTING OF BILLETS 67-04 M04-68107
MOULDS FOR THE CONTINUOUS CASTING OF WIDE SLABS 67-04 M04-68184
MODELLING THE CONTINUOUS CASTING PROCESS 67-04 M04-68185
IMPALCO WORKS IN SOUTH WALES HAS 6 MILLION POUNDS UP-TO-DATE LOOK 67-04 M07-66136
UNIVERSAL BEAM AND SECTION MILL AT SHELTON IRON & STEEL LTD 67-04 M07-66325
ALUMINUM FOIL 67-04 M20-66146
CONTINUOUS CASTING OF FREE-CUTTING STEELS 67-05 M01-69074
GRAPHITE MOLDS IN THE CONTINUOUS CASTING OF NONFERROUS METALS 67-05 M03-68925
CONTACT OF INGOT WITH CRYSTALLIZER WALLS IN CONTINUOUS CASTING 67-05 M04-68322
INVESTIGATION OF BASIC POWER PARAMETERS OF A VERTICAL CONTINUOUS STEEL CASTING MACHINE PRODUCING FLAT INGOTS 67-05 M04-68548
EXPERIENCES WITH CONTINUOUS CASTING OF BILLETS 67-05 M04-68695
STUDY OF THE POSSIBILITIES OF CONTINUOUS STEELMAKING 67-05 M04-68727
STANDARDS FOR CONTINUOUS CASTING OF BEARING STEELS. PT. 1. CONTINUOUS CASTING OF BALL AND ROLLER BEARING STEEL 67-05 M04-68730
SLAB CASTING--CAUTION GIVES WAY TO ACTION 67-05 M04-68809
A STUDY OF CONTINUOUS CASTING OF STEEL. PT. 1. EROSION RESISTANCE TESTS ON REFRACTORIES FOR TUNDISH NOZZLES USED IN CONTINUOUS CASTING OF STEEL 67-05 M04-69072
REFRACTORIES FOR LINING THE TUNDISH IN THE CONTINUOUS CASTING OF TUBE STEEL 67-05 M04-69085
LUBRICATION IN THE CONTINUOUS CASTING PROCESS 67-05 M04-69488
AUTOMATIC CONTROL OF STEEL CONTINUOUS CASTING STRANDS 67-05 M06-69079
CONTINUOUS CASTING OF SLEEVES ON A HORIZONTAL MACHINE 67-05 M06-69539
CONTINUOUS PRODUCTION OF WIRE, TAPE AND NARROW STRIP 67-05 M06-69593
CASTING AND PREHEATING IN ONE LINE 67-06 M03-70498
NEW ELECTRIC ARC FURNACE INITIATES SEMI-CONTINUOUS CASTING, EXTRUDING AND DRAWING OF COPPER TUBING AT HALSTEADS WYNNE PLANT 67-06 M03-71317
JAPANESE DEVELOPMENT IN HORIZONTAL CONTINUOUS CASTING OF COPPER ALLOYS 67-06 M03-71578
CONTINUOUS CASTING FACILITY--IMPORTANT IN FOIL ROLLERS SERVICE 67-06 M03-71585
EFFECTS OF CONTINUOUS CASTING CONDITIONS ON THE QUALITY OF PURE NICKEL AND PRODUCTS ROLLED THEREFROM. PT. 4. A STUDY OF THE CONTINUOUS CASTING OF STEEL 67-06 M03-72207
HEAT FLOW IN THE CONTINUOUS CASTING OF STEEL 67-06 M04-70038
KINETICS OF BOILING AND CRYSTALLIZATION OF LOW CARBON RIMMING STEEL DURING CONTINUOUS CASTING 67-06 M04-70111
COMPUTERIZED CALCULATION OF OPERATING CONDITIONS IN CONTINUOUS CASTING MACHINES 67-06 M04-71330
THE CONTINUOUS CASTING OF SMALL SECTIONS 67-06 M04-71566
METALLURGY OF CONTINUOUS CASTING 67-06 M04-72025
CONTINUOUS CASTING OF VERY LARGE SECTIONS AT SHELTON 67-06 M04-72026
THE CONTINUOUS CASTING OF HOLLOW BILLETS 67-06 M04-72159
EFFECT OF CONTINUOUS CASTING CONDITIONS UPON QUALITY OF AUSTENITIC STAINLESS STEEL CAST BILLETS. PT. 2. STUDY OF CONTINUOUS CASTING OF STEEL 67-06 M04-72216
CONTINUOUS CASTING AT A NORTHERN JAPANESE SPECIAL STEEL PLANT 67-06 M04-72383
DEVICE FOR COOLING THE INGOT BY MIXED WATER AND AIR IN CONTINUOUS ALLOY CASTING 67-06 M06-70735
SENDZIMIR HOT AND COLD MILLS AND THEIR OPERATION IN CONJUNCTION WITH CONTINUOUS CASTING 67-06 M07-70132
HOLLOW COPPER BILLETS CONTINUOUSLY CAST FOR EXTRUSION AT HALSTEAD PLANT 67-07 M03-73841
ANALYSIS OF THE SOLIDIFICATION PROCESS OF STEEL IN CONTINUOUS CASTING BY ANALOG SIMULATOR. PT. 2. STUDY OF CONTINUOUS CASTING 67-07 M04-72442
ON THE QUALITY OF CONTINUOUS-CAST STAINLESS STEEL SLABS 67-07 M04-72447
PRINCIPAL POWER PARAMETERS OF VERTICAL CONTINUOUS STEEL CASTING PLANT FOR PRODUCING FLAT BILLETS 67-07 M04-72459
ANALOG SIMULATOR FOR THE ANALYSIS OF THE PROCESS OF SOLIDIFICATION OF STEEL IN CONTINUOUS CASTING. PT. 1. STUDY OF CONTINUOUS CASTING 67-07 M04-72571
CONTINUOUS CASTING AT NOVO LIPETSK 67-07 M04-72810
CONTACT BETWEEN BILLET AND MOLD WALLS IN CONTINUOUS CASTING 67-07 M04-72850
MECHANISM OF THE FORMATION OF INTERNAL HOT CRACKS IN CONTINUOUS-CAST SQUARE STEEL BILLETS 67-07 M04-73004
GENERALIZED METHODS OF CALCULATING THE HEAT EXTRACTION IN THE SECONDARY COOLING ZONE IN THE CONTINUOUS CASTING OF STEEL 67-07 M04-73013
INVESTIGATION OF CENTRAL POROSITY IN CONTINUOUS-CAST SQUARE AND SLAB SECTIONS 67-07 M04-73018
INCLUSIONS IN CONTINUOUSLY CAST CARBON STEELS 67-07 M04-73081
THE BSR PROCESS AS A SUPPLEMENT TO CONTINUOUS CASTING OF STEEL 67-07 M04-73119
THE CONTINUOUS CASTING PLANT FOR ALLOY STEELS AT BAILDON, POLAND, WORKS 67-07 M04-73246
CASTING OF FERROMANGANESE ON A CASTING MACHINE 67-07 M04-73262
CASTING SQUARE BILLETS OF SMALL CROSS SECTION ON A MULTIPASS CONTINUOUS CASTING UNIT 67-07 M04-73776
EFFECT OF THE ARRANGEMENT OF THE RADIAL CRYSTALLIZER IN A CONTINUOUS CASTING UNIT ON THE QUALITY OF THE BILLETS 67-07 M04-73777
ON THE QUALITY OF 18-8 STAINLESS STEEL WIRE ROD FROM CONTINUOUS-CAST BILLETS 67-07 M07-72440
PRESHRINKAGE EXPANSION OF IRON IN SEMICONTINUOUS CAST PIPES 67-07 M15-74048
SOME ASPECTS OF CRACK FORMATION WHEN PRODUCING ROUND INGOTS WITH LARGE CROSS SECTIONS 67-08 M03-75094
OPERATING A CONTINUOUS CASTING MACHINE 67-08 M04-74497
SECTIONAL NOZZLE-BATCHERS FOR CONTINUOUS CASTING OF ELECTRICAL STEEL 67-08 M04-75594
ANTI-FLAKE TREATMENT OF CONTINUOUSLY CAST CHROMIUM-NICKEL STEEL SLABS 67-08 M04-75717
TEMPERATURE FIELD OF THE FLAT WALL OF A CONTINUOUS CASTING MOLD 67-08 M06-74346
THE PROCESSING OF CONTINUOUSLY CAST BILLETS INTO BARS AND SHAPES 67-08 M07-75113
PRODUCING FORGINGS FROM CONTINUOUSLY CAST RECTANGULAR BILLETS 67-08 M07-75488
CONTINUOUS ALUMINUM ROD CASTING AND ROLLING PLANT 67-08 M07-75705
LEAD PRODUCTS BY CONTINUOUS CASTING 67-09 M03-76618
USE OF AUTOMATIC RECORDING DEVICES FOR DETERMINING THE SHAPE OF THE COOLING FRONT OF ALUMINUM AS SEMICONTINUOUSLY CAST 67-09 M03-77761
CONTINUOUS MELTING, CASTING AND ROLLING OF COPPER ROD 67-09 M03-77918
MULTI-STRAND CONTINUOUS CASTING OF SMALL SQUARE BILLETS 67-09 M04-76539
EFFECT OF POSITION OF A CURVED MOLD IN A CONTINUOUS CASTING MACHINE ON BILLET QUALITY 67-09 M04-76540
LOW LEVEL, STRAIGHT MOLD CONTINUOUS CASTING OF STEEL 67-09 M04-76667
TESTING THE COMBINATION OF CONTINUOUS CASTING AND ROLLING OF STEEL IN AN EXPERIMENTAL PLANT OF THE BEZHITSA STEELMAKING WORKS 67-09 M04-76975
THE LOGISTICS OF CONTINUOUS CASTING 67-09 M04-77009
LOGISTICS IN STEELMAKING 67-09 M04-77098
LOGISTICS IN STEELMAKING 67-09 M04-77147
INTERACTION OF INGOT SKIN WITH COPPER WATER-COOLED WALL OF THE CONTINUOUS CASTING MOLD 67-09 M04-77626
THE THREE-ROLL DRILLING MACHINE BY TUBES, LTD., GREAT BRITAIN 67-09 M07-78299
ECONOMICAL PRODUCTION OF COPPER TUBE 67-10 M03-79494
APPLICABILITY OF THE SINUSOIDAL OSCILLATION RULE IN A CONTINUOUS CASTING MOLD 67-10 M04-78424

CONTINUOUS CASTING

MANUFACTURE OF STAINLESS STEEL IN THE TOP BLOWN OXYGEN CONVERTER 67-10 M04-78617
THE ROLLING OF TUBES AND SHAPES FROM CONTINUOUSLY CAST STEELS 67-10 M04-78653
PRODUCTION AND CONTINUOUS CASTING OF BOILER PLATE STEEL 67-10 M04-79665
A STUDY OF THE CONTINUOUS MULTISTRAND CASTING OF STEEL BY THE USE OF A MODEL 67-10 M04-79666
FORMATION OF BILLET SHELL IN CONTINUOUS-CASTING MOLDS WITH FLAT AND CURVED WALLS 67-10 M04-79717
SELECTING A SUITABLE RANGE OF CAST IRON PIPES FOR CENTRIFUGAL AND SEMICONTINUOUS CASTING 67-10 M06-78883
THE PROPERZI PROCESS--1967 PROGRESS REPORT. PT. 1 67-10 M06-80092
INVESTIGATIONS OF THE STRUCTURE OF CONTINUOUSLY CAST ALMGSI1 - ALLOYS WITHOUT AND WITH ADDITION OF MANGANESE 67-10 M14-79085
NASSAUS PROCESS FOR CONTINUOUS CASTING AND ROLLING OF COPPER ROD 67-10 M20-78581
CONTINUOUS PRODUCTION OF ALUMINIUM ROD FOR ELECTRICAL CONDUCTORS 67-11 M03-81491
CONTINUOUS CASTING PLANT AT MURORAN WORKS 67-11 M04-80501
CONTINUOUS GREY-IRON CASTING PRODUCES BETTER BARS AND SECTIONS 67-11 M04-80769
THIN-WALLED TUBULAR MOLDS FOR THE CONTINUOUS CASTING OF STEEL 67-11 M04-80847
INTERACTION BETWEEN THE SKIN OF CONTINUOUS CAST BILLETS AND THE WATER-COOLED COPPER WALLS OF THE MOULD 67-11 M04-80914
CONTINUOUS CASTING--ROUGH AND READY STYLE 67-11 M04-81146
HOW ELECTROMAGNETIC STIRRING OF SOLIDIFYING METAL AFFECTS THE CHEMICAL HETEROGENEITY AND MACROSTRUCTURE OF THE INGOT 67-11 M04-81410
TRIAL CONTINUOUS CASTING OF RIMMING STEEL INTO SQUARE NARROW BILLETS 67-11 M04-81446
METALLURGICAL ASPECTS IN THE DESIGN OF CONTINUOUS CASTING MACHINES 67-11 M04-81495
POSITION MONITOR FOR CONTINUOUS CASTING MOLDS 67-11 M04-81623
AN INTEGRAL PROFILE METHOD FOR THE ANALYSIS OF HEAT FLOW IN THE CONTINUOUS CASTING OF METALS 67-12 M03-83082
CONTINUOUS SOLIDIFICATION. IMPROVED INSTALLATIONS FOR CASTING BRONZE 67-12 M03-83114
A RADIAL-TYPE CONTINUOUS STEEL CASTING INSTALLATION FOR PRODUCING SLABS 67-12 M04-81861
DEOXIDIZING METAL IN HIGH-CAPACITY ARC FURNACES 67-12 M04-81866
EXPERIENCE WITH THE WORKABILITY OF THE CONTINUOUS-CAST SEMIPRODUCT 67-12 M04-81928
CONTINUOUS CASTING OF SLABS UP TO 83-IN. WIDE 67-12 M04-81953
SECONDARY COOLING IN CONTINUOUS CASTING AND ITS INFLUENCE ON SOLIDIFICATION PARAMETERS 67-12 M04-82384
REFRACTORIES FOR CONTINUOUS CASTING OF LOW-CARBON RIMMED STEEL 67-12 M04-82637
CONTRIBUTION TO THE METALLURGY OF THE OXYGEN TOP-BLOWING PROCESS 67-12 M04-82662
LUBRICANTS FOR USE IN COPPER MOLDS IN THE CONTINUOUS CASTING OF STEEL 67-12 M04-82690
APPLICABILITY OF A SINE-WAVE LAW FOR MOVEMENT OF MOULD IN CONTINUOUS STEEL CASTING PLANT 67-12 M04-83422
WHY CRACKS OCCUR IN CONTINUOUSLY CAST CARBON STEEL BILLETS 67-12 M04-83457
HIGH-OUTPUT, LOW-MANPOWER CONTINUOUS CASTING OF BRASS EXTRUSION BILLETS 67-12 M06-83170
WIDE PLANETARY MILL FOR STAINLESS STEEL 67-12 M07-82931

CONTINUOUS CASTING, AUTOMATION
CONTINUOUS CASTING 67-05 M04-69174
AUTOMATIC CONTROL SYSTEMS FOR CONTINUOUS CASTING 67-10 M04-78614
NEW BUHLER 160-D MACHINES WITH DIRECT INJECTION SYSTEM 67-10 M06-78585
AUTOMATIC CONTROL AND ADJUSTMENT IN CONTINUOUS CASTING PLANT 67-11 M04-81322

CONTINUOUS CASTING, CRYSTALLIZATION
ACICULAR CRYSTALLIZATION IN CONTINUOUS CAST ALUMINUM 67-08 M13-75216

CONTINUOUS CASTING, FLAKING
FLAKE PREVENTIVE TREATMENT OF CONTINUOUS CAST SHEET BILLETS OF CHROMIUM STEELS 67-06 M04-71248

CONTINUOUS CASTING, HEAT TRANSFER
HEAT TRANSFER IN CONTINUOUS CASTING MOLDS 67-06 M04-71329

CONTINUOUS CASTING, MEASURING INSTRUMENTS
DETERMINATION OF THE LEVEL OF LIQUID STEEL IN AN INGOT MOLD FOR CONTINUOUS CASTING OF STEEL 67-02 M04-59499

CONTINUOUS COATING
CONTINUOUS LACQUERING OF GALVANIZED STEEL BANDS 67-02 M12-60140
EUROPES BIGGEST ALUMINIUM PRE-PAINT LINE 67-03 M12-65699
COIL-COATING FINISHES 67-04 M12-67749
JOHN LYSAGHT INSTALLS CONTINUOUS COATING LINE 67-04 M12-67908
CONTINUOUS FINISHING SYSTEM DOES BIG JOB IN SMALL PLANT 67-05 M12-68661
CONTINUOUS STEEL SHEET GALVANIZING LINE IN CALIFORNIA 67-06 M12-71552
SURFACE TREATING AND ROLLER COATING COIL STOCK 67-06 M12-71558
ELECTROLYTIC TINNING OF STEEL STRIP 67-06 M12-72194
LOCALLY-MADE CONTINUOUSLY-COATED STEEL NOW AVAILABLE TO INDUSTRY 67-07 M12-73731
USE OF DIFFUSION ZINC PLATING IN TUBE INDUSTRY 67-07 M12-74187
PLATED-WIRE MEMORIES--UNIVACS BET TO REPLACE TOROIDAL FERRITE CORES 67-08 M12-74474
PRECOATED METALS--THEIR USES AND ADVANTAGES 67-08 M12-74650
COIL-COATING LINE IN SPAIN 67-08 M12-75135
NICKEL SLURRY COATS STEEL STRIP 67-08 M12-76179
CONTINUOUS STRIP COATING LINE IN SPAIN 67-08 M12-76195
CONTINUOUS HIGH-VACUUM ELECTRON BEAM PROCESSING OF STRIP 67-09 M10-77559
CONTINUOUS OXIDE COATING OF COILED COPPER FOIL IN A NIIM DEVICE 67-09 M12-76959
THE SELECTION OF CHEMICAL TREATMENTS OF ANTICORROSION PROTECTION AND PAINT ADHESION ON METAL SURFACES--A CONTINUOUS COAT 67-09 M18-77704
COIL COATING OF METALS 67-12 M12-82041
TINNING OF COPPER WIRE 67-12 M12-82653

CONTINUOUS FURNACES
SEE ALSO PUSHER FURNACES
ROLLER HEARTH FURNACES
ROTARY HEARTH FURNACES
LARGE ROLLER HEARTH FURNACE IN AUSTRALIA 67-01 M10-58592
PRODUCTION OF WIRE OF SV-08G2S AND SU-08GS STEEL 67-04 M07-66220
GAS SPEEDS ALUMINUM ANNEALING 67-04 M10-66130
CONTINUOUS HEAT TREATING FURNACES FOR ALUMINIUM AND LIGHT ALLOY STRIP 67-04 M10-66670
DEVELOPMENT IN EQUIPMENT AND PRACTICES FOR QUENCHING STEEL PLATES 67-04 M10-67368
USE OF RECUPERATORS IN HOLDING FURNACES 67-06 M10-71392
AUSTRALIANS TRY CONTINUOUS COPPERMAKING PROCESS 67-07 M03-72537
STUDY OF PERFORMANCE OF ROLLER-HEARTH TUNNEL FURNACES FOR HEAT TREATMENT OF BALL-BEARING TUBES 67-07 M10-74148
CONTROLLED PRESSURE IN CONTINUOUS HEATING FURNACE WORKING SPACES 67-08 M10-74890
INVESTIGATION ON THE EFFECT OF A SHORT-TIME RECRYSTALLIZING ANNEALING TREATMENT ON THE MECHANICAL TECHNOLOGICAL PROPERTIES OF UNALLOYED THIN STEEL STRIP, POOR IN CARBON, UNDER PARTICULAR CONSIDERATION OF QUENCH AGING 67-08 M10-75393
SEMICONTINUOUS COIL ANNEALING FURNACES INCREASE ALUMINUM OUTPUT AND SURFACE QUALITY 67-08 M10-76176
STUDY OF THE EFFECT OF CERTAIN HEATING PARAMETERS ON THE QUALITY OF WELD SEAM IN TUBES OBTAINED BY CONTINUOUS FURNACE BUTT WELDING 67-08 M11-75013
STUDY OF HEATING STRIP DURING CONTINUOUS FURNACE WELDING OF TUBES 67-08 M11-75014
EXAMPLES OF THE APPLICATION OF CONTINUOUS FURNACES 67-10 M10-79792
CONTINUOUS HEAT TREATING PROCESS HANDLES MILLIONS OF FASTENERS PER MONTH 67-12 M10-81993

CONTINUOUS FURNACES, DESIGN
REHEATING FURNACES FOR CONTINUOUS STEELMAKING 67-12 M10-82929

CONTINUOUS FURNACES, THERMAL PROPERTIES
ADJUSTMENT OF A NEW CONTINUOUS ROLLER HEARTH FURNACE FOR HEAT TREATING SHKH15 STEEL TUBES 67-02 M10-62156
CONTINUOUS REHEAT FURNACES
SEE CONTINUOUS FURNACES HEATING FURNACES
CONTINUOUS ROLLING
SEE ALSO SKIN PASS ROLLING TENSION ROLLING
METHODS OF IMPROVING THE TECHNOLOGY OF PRODUCING BILAYER SHEET STEEL 67-02 M07-61948
INVESTIGATION OF A BUTT WELDING MACHINE AND THE WELDING CONDITIONS FOR WELDING CONTINUOUS BILLETS IN A 350-2 MILL 67-02 M11-60197
MEANS OF IMPROVING THE MANUFACTURE OF TWO-PLY STEELPLATE 67-04 M07-67777
INVESTIGATION OF THE NEW 900/700/500 CONTINUOUS BILLET MILL 67-05 M07-69689
AUTOMATION OF BAR AND ROD MILLS 67-05 M20-69484
SENDZIMIR HOT AND COLD MILLS AND THEIR OPERATION IN CONJUNCTION WITH CONTINUOUS CASTING 67-06 M07-70132
LATROBE TAKES AIM ON HIGH-SPEED ROLLING 67-06 M07-70484
OPERATION OF A UNIT FOR CONTINUOUS REDUCTION OF ELECTROWELDED PIPES 67-06 M07-71257
THE NEW CONTINUOUS 900/700/500 BILLET MILL 67-07 M07-74075
RELATIVE MOVEMENT OF METAL BEING FORMED AND FREE FLOATING MANDREL WHEN ROLLING TUBES ON A CONTINUOUS MILL 67-07 M07-74144
EXPERIMENTAL INVESTIGATION OF STRESS DISTRIBUTION IN ROLL-FORMING STRIP ON ROLL-BENDING MILLS 67-08 M07-74580
CONTINUOUS ALUMINUM ROD CASTING AND ROLLING PLANT 67-08 M07-75705
EXPERIENCE WITH PLANT FOR CONTINUOUS REDUCTION OF ELECTRIC-WELDED TUBES 67-08 M07-75726
CONTINUOUS MELTING, CASTING AND ROLLING OF COPPER ROD 67-09 M03-77918
TESTING THE COMBINATION OF CONTINUOUS CASTING AND ROLLING OF STEEL IN AN EXPERIMENTAL PLANT OF THE BEZHITSA STEELMAKING WORKS 67-09 M04-76975
MAINTAINING ROLL CAMBER IN HOT ROLLING SPECIAL STEELS ON CONTINUOUS MILLS 67-09 M07-77632
ROLL BARREL CONTOURS FOR HOT ROLLING SPECIAL STEELS ON CONTINUOUS MILLS 67-11 M07-80920
ROLLING TEMPERATURES IN A CONTINUOUS HIGH-SPEED LIGHT-SECTION MILL 67-12 M07-81711
HIGHER DIMENSIONAL ACCURACY IN ROLLING SHEET ON THE CONTINUOUS MILL 67-12 M07-83427
CONTINUOUS ROLLING, AUTOMATION
CONTINUOUS HOT MILLS 67-05 M07-69177
SAR DIGITAL PROGRAM COMPUTER OF STRIP THICKNESS IN CONTINUOUS SHEET MILLS 67-10 M07-79917
AUTOMATIC GAGING OF STRIP IN A CONTINUOUS HOT 2500 MILL 67-10 M07-79918
CONTOUR MILLING
CONTOURING ON POINT-TO-POINT NC 67-01 M08-58553
NC PROFILING MADE FAIL-SAFE 67-05 M20-68436
MILLING TITANIUM EXTRUSIONS 67-06 M08-71488
BUILT-IN INTERFEROMETERS 67-06 M08-71930
CONTOUR ROLLING
SEE METAL ROLLING
CONTOURS
SEE SURFACES
CONTRACTING
SEE CONTRACTION
CONTRACTION
DEFORMATION OF THE ROTOR WINDING OF A TURBO ALTERNATOR. AN EXTREME EXAMPLE OF COPPER SHORTENING 67-08 M17-74501
CONTROL
SEE CONTROL SYSTEMS
CONTROL EQUIPMENT
SEE ALSO CONTROL VALVES CRYOSTATS CURRENT REGULATORS PRESSURE REGULATORS
AN AUTOMATIC CONTACTLESS METHOD FOR TRACKING A WELD JOINT 67-02 M11-61065
THE MEASURING AND CONTROL EQUIPMENT OF CUPOLA FURNACES 67-06 M06-70040
NC PROFILING MADE FAIL-SAFE 67-07 M08-73444
CONTROL SURFACES
SEE GUIDE VANES
CONTROL SYSTEMS
A MODEL FOR CONTROLLING A BLAST FURNACE BY THE PARAMETER BLAST HUMIDITY--SILICON CONTENT IN IRON 67-02 M04-62281
STEELMAKING.. A GROWING ROLE FOR COMPUTERS AND CONTROLS 67-06 M20-70687
FLUID POWER SYSTEMS FOR STEEL STRIP LINE 67-06 M20-71567
TECHNICAL AND ECONOMIC CONSIDERATIONS IN PLATE MILL PROCESS CONTROL 67-07 M07-72427
AN AUTOMATIC SYSTEM FOR CONTROLLING THE SKIP HOIST OF A BLAST FURNACE BY AN ELECTRICAL DRIVE WITH CONTACTLESS LOGIC ELEMENTS 67-08 M04-76265
CONTROLLED PRESSURE IN CONTINUOUS HEATING FURNACE WORKING SPACES 67-08 M10-74890
AUTOMATIC CONTROL SYSTEM FOR ELECTRIC DRIVE OF A BLAST-FURNACE SKIP HOIST WITH CONTACTLESS LOGICAL UNITS 67-10 M04-79258
EXPERIENCE GAINED WITH VARIOUS MEASURING AND TRANSMITTING METHODS IN STEEL MILLS 67-10 M07-79390
CONTROL VALVES
SEE ALSO PRESSURE REGULATORS
CONTROL VALVES, MECHANICAL PROPERTIES
BRASS FORGING MAKES SCUBA GEAR FAIL-SAFE 67-04 M20-66168
CONTROLLABILITY
SEE STABILITY
CONTROLLED ATMOSPHERES
SEE ALSO BRAZING ATMOSPHERES INERT ATMOSPHERES OXIDIZING ATMOSPHERES REDUCING ATMOSPHERES
EXTRUSION AT TEMPERATURES APPROACHING 5000 F 67-01 M07-58673
OBTAINING CONTROLLED ATMOSPHERES IN FLUID BED HEATING FURNACES 67-02 M10-60854
METHODS OF MONITORING ATMOSPHERES WITH CONTROLLED CARBON POTENTIAL 67-02 M19-60868
RATE OF DECARBURIZATION OF MOLTEN IRON-CARBON ALLOYS WITH OXIDIZING GAS 67-04 M04-67555
CHOOSING THE CONTROLLED ATMOSPHERE AND CALCULATING OPTIMUM SHIELDING CONDITIONS IN WELDING 67-04 M11-67808
INVESTIGATION OF AN O-SHAPED RADIANT TUBE FOR BELL FURNACES 67-05 M10-68560
HEAT TREATMENT OF INVESTMENT-CAST STAINLESS STEELS AND HIGH TEMPERATURE ALLOYS 67-05 M10-69889
ATMOSPHERES FOR MODERN HEAT TREATING--USING THEM IN PRODUCTION 67-06 M10-70719
CONTROLLED ATMOSPHERES FOR THE HEAT TREATMENT OF METALS 67-06 M10-71937
SELECTION OF CONTROLLED ATMOSPHERES AND THE CALCULATION OF OPTIMUM SHIELDING CONDITIONS FOR WELDING 67-06 M11-70308
STEADY STATES DURING HEAT TREATMENT OF NIOBIUM AND TANTALUM UNDER WATER VAPOR 67-06 M14-71726
RESEARCH INTO AN O-SHAPED RADIANT TUBE FOR BELL-TYPE FURNACES 67-07 M10-72471
ROLLING OF REFRACTORY METALS IN INERT CONTROLLED ATMOSPHERE 67-08 M07-76246
CARBON POTENTIAL--ITS MEASUREMENT, REGULATION AND SIGNIFICANCE IN CASE-HARDENING PRACTICE 67-08 M10-74746
HEAT TREATMENT OF SOME NONFERROUS, REFRACTORY, AND RARE METALS AND ALLOYS IN INERT ATMOSPHERES 67-08 M10-75098
USE OF PROTECTIVE AND REACTION GASES IN THE HEAT TREATMENT OF COLD FORMED STEEL BLANKS 67-08 M10-75510
OBTAINING A CONTROLLED ATMOSPHERE IN A FURNACE WITH A BOILING LAYER 67-08 M10-76112
THE CONTROLLED ATMOSPHERE FURNACE--ITS DESIGN AND APPLICATION 67-09 M02-76730
HOW SMALL AMOUNTS OF OXYGEN IN THE COMBUSTION PRODUCTS AFFECT PROTECTIVE GAS ATMOSPHERES 67-09 M10-77053
OXIDATION AND DECARBURIZATION OF STEEL WHEN ANNEALING IN A PROTECTIVE ATMOSPHERE OF PSO-09 GAS 67-09 M10-77641
MALLEABLE IRON ANNEALING TUNNEL FURNACE PROVIDES PRECISELY CONTROLLED CYCLE 67-09 M10-77743
OPEN-COIL ANNEALING 67-09 M10-77840
EXPERIENCE OF USING SHIELDING ATMOSPHERES IN HEAT TREATING FURNACES 67-10 M10-78373
SLABS LEAVE FURNACE WITHOUT SCALE 67-10 M10-78860
INTERACTION OF CONTROLLED ATMOSPHERES WITH METALS 67-10 M10-79216

CONTROLLED ATMOSPHERES
OXIDATION AND ELIMINATION OF CARBON DURING ANNEALING IN A PSO-09 PROTECTIVE ATMOSPHERE 67-11 M10-80929
RELATING THE FURNACE ATMOSPHERE TO THE JOB. PT. 2 67-12 M10-82882
FURNACES WITH PROTECTIVE ATOMSPHERES AND INDUSTRIAL P 93-94, 96, 98-103 PREHEAT TREATMENT 67-12 M10-83141
ARC ATMOSPHERE AND NITROGEN CONTENT OF WELD METAL 67-12 M11-83211
EFFECT OF SHIELDING GAS COMPOSITION ON THE PROPERTIES OF WELDS 67-12 M11-83508
ATMOSPHERIC CONTROL IN INDUSTRIAL FURNACES 67-12 M20-82832
CONTROLLING
SEE CONTROL SYSTEMS
CONTROLS
SEE CONTROL EQUIPMENT
CONVECTION
TEMPERATURE MEASUREMENTS AND FLUID FLOW DISTRIBUTIONS AHEAD OF SOLID-LIQUID INTERFACES 67-12 M14-82744
CONVECTION HEATING
TEMPERATURE HOMOGENEITY IN THE FURNACE CHARGE AND ITS EFFECT ON THE DESIGN AND EFFICIENCY OF FURNACES 67-07 M10-73188
CONVERSION
ON THE DESTRUCTION OF MAGNETITE IN THE CONVERTER 67-09 M04-77110
CONVERSION OF NICKEL CARBONATE INTO METALLIC NICKEL 67-10 M03-79852
CONVERSION COATING /PROCESS/
SEE ALSO BLACKENING
BONDERIZING
CHROMATING
PHOSPHATING /COATING/
CHEMICAL CONVERSION COATING OF AL AND AL ALLOY SURFACES 67-01 M12-58434
LONG ALUMINUM EXTRUSIONS COATED IN VERTICAL FINISHING SYSTEM AT ELECTRO FINISH PLANT 67-01 M12-58452
ORGANIC COATINGS FOR STEEL SHEETS--CONTINUOUS PAINTING LINE 67-01 M12-58489
MACHINE UNIT FOR CONTINUOUS STRAND PICKLING AND SURFACE TREATMENT OF WIRE RODS IN HELICAL MOVEMENT 67-02 M12-59006
LOCALLY-MADE CONTINUOUSLY-COATED STEEL NOW AVAILABLE TO INDUSTRY 67-07 M12-73731
SOME PRODUCTION PLATING PROBLEMS AND HOW THEY WERE SOLVED. PT. 11 67-07 M12-74127
CHROMIUM CONVERSION COATING 67-08 M12-75377
THE CHEMIDIZING PROCESS 67-11 M12-81699
LEAD PHOSPHATE PROTECTS STEEL AND PRESERVES ITS WELDABILITY 67-12 M12-82646
CONVERSION COATINGS
SEE ALSO PHOSPHATE COATINGS
TWO PAGES OF REPRODUCIBLE DATA TABLES--PROTECTIVE FINISHES 67-08 M12-74602
PREVENTION OF CORROSION 67-08 M18-74601
THE PREPARATION AND PRETREATMENT OF METAL SURFACES 67-10 M18-80097
CONVERSION COATINGS, CORROSION TESTS
NEW ACCELERATED CORROSION TESTS FOR SURFACE-PROTECTED STEEL SHEET. PT. 3. QUANTITATIVE CORROSION TESTS ON PHOSPHATED AND PAINTED SHEET 67-08 M18-75665
CONVERTERS, CORROSION
CORROSION OF WET GAS SCRUBBERS OF BLAST FURNACES AND CONVERTERS 67-02 M04-61950
CORROSION OF SCRUBBERS IN PLANT FOR THE WET CLEANING OF BLAST-FURNACE AND CONVERTER GASES 67-04 M04-67784
CONVEYORS
SEE ALSO BELT CONVEYORS
BUCKET CONVEYORS
GRAVITY CONVEYORS
HANDLING OF MOLDS IN THE FOUNDRY 67-11 M06-80572
COOKING
SEE HEATING
COOLANTS
EVALUATION OF LI, NA, K, RB AND CS BOILING AND CONDENSING IN NB-1 PER CENT ZR CAPSULES 67-04 M18-66388
SYSTEMS FOR THERMAL BALANCING OF MOLDS IN DIE CASTING SHOPS. DESIGN AND REGULATION 67-09 M06-77669
COOLANTS, QUENCHING /COOLING/
QUENCHING IN THE STREAM OF COMPRESSED GASES 67-02 M10-60856
COOLERS, CORROSION
CORROSION CRACKING OF THE COOLER OF KH18N10T STAINLESS STEEL USED IN MANUFACTURING SULFURIC ACID 67-07 M18-73198
COOLING
SEE ALSO FREEZING
LIQUID COOLING
MAGNETIC COOLING
SUPERCOOLING
THERMOELECTRIC COOLING
WATER COOLING
REDUCING THE TIME FOR COOLING INGOT MOLDS 67-02 M06-59186
THE CONTINUOUS COOLING OF HOT ROLLED WIRE ROD 67-02 M07-60757
BASIC HEAT TREATING PRACTICES 67-02 M10-60863
LIMESTONE AS A COOLANT IN THE BASIC OXYGEN PROCESS 67-03 M04-65530
DEVICE FOR COOLING THE INGOT BY MIXED WATER AND AIR IN CONTINUOUS ALLOY CASTING 67-06 M06-70735
THE HEATING AND COOLING OF OPEN COILS IN SINGLE-PILE BELL FURNACES 67-09 M10-77346
CONVECTIVE HEAT EXCHANGE IN PLANE-FLOW COOLING OF STEEL STRIP 67-09 M10-77751
COOLING SINTER IN A HOPPER COOLER 67-10 M02-78417
METHOD OF COOLING CALCINATED ALUMINA IN A FLUIDIZED BED 67-10 M02-79848
REDUCING THE COOLING TIME FOR INGOT-MOLDS 67-10 M06-78895
ROLE OF WATER COOLING OF INGOT MOLDS ON THEIR LIFE-TIME 67-11 M06-80571
SINTER COOLING ON A PAN COOLER AT ABAGURSK SINTER PLANT 67-12 M02-83415
CONTINUOUS SMALL BAR MILL AT THE WORKS OF THE METALLURGY SOCIETY OF NORMANDY 67-12 M20-82895
COOLING, RADIATION EFFECTS
TEMPERATURE DISTRIBUTION IN AN INGOT COOLED BY SURFACE RADIATION 67-12 M06-82115
COOLING CURVES
THE DEPENDENCE OF THE STABILITY OF THE SOLID SOLUTION OF ALLOY D16 ON THE CHEMICAL COMPOSITION 67-01 M14-58085
CHANGE IN STRUCTURE AND HARDNESS OF 45 STEEL IN RELATION TO COOLING RATE 67-02 M10-61949
STRUCTURAL DIAGRAMS OF THE QUATERNARY 18 PER CENT CR-FE-C-N SYSTEM 67-02 M13-59983
RECRYSTALLIZATION OF 20KHGS STEEL DEFORMED AT HIGH TEMPERATURES 67-02 M14-59671
INVESTIGATION OF THE DECOMPOSITION KINETICS OF SUPERCOOLED AUSTENITE IN 20KHGNR STEEL 67-02 M14-59676
STUDY OF C-CURVES 67-02 M14-60898
INVESTIGATION OF CHROMIUM STEELS AFTER CONTINUOUS COOLING AT VARIOUS RATES 67-02 M14-61990
EFFECT OF PREVIOUS COLD WORKING ON RAPID HEATING AND QUENCHING OF A PLAIN CARBON STEEL 67-02 M17-59118
CHANGE IN STRUCTURE AND HARDNESS OF 45 STEEL DEPENDING ON COOLING RATE 67-04 M10-67783
ESTABLISHMENT OF ARC WELDING PROCEDURE OF STRUCTURAL STEELS 67-04 M11-67586
KINETICS OF ISOTHERMAL CRYSTALLIZATION OF CHROMIUM PIG IRONS 67-04 M14-66007
NATURE OF THE CHANGE IN COOLING RATES IN DIFFERENT POINTS IN THE CROSS-SECTION OF BILLETS 67-04 M14-66701
INFLUENCE OF SOLIDIFICATION RATE ON GRAIN REFINEMENT OF CAST STRUCTURE OF 22 PER CENT SI-AL ALLOY WITH OR WITHOUT PHOSPHORUS ADDITIONS 67-05 M06-68875
FORMATION OF CRYSTAL STRUCTURES IN PURE AL 67-05 M06-68887
EFFECT OF COOLING RATE ON THE STRUCTURE AND PROPERTIES OF ST. 3 STEEL 67-05 M10-68332
THE TERMINAL SOLUBILITY OF HYDROGEN IN ZIRCONIUM ALLOYS BETWEEN 30 AND 400 C 67-05 M14-69562
INVESTIGATION OF MARTENSITIC TRANSFORMATION IN N18K8M3T ALLOY 67-05 M14-69669
STUDY OF A PBSE-PBI2 SECTION OF THE PB-SE-I TERNARY SYSTEM 67-06 M13-70744
THERMOGRAPHIC DETERMINATION OF THE CARBON EQUIVALENT OF HYPOEUTECTOID CAST IRON 67-06 M14-70295
DETERMINING THE AMOUNT OF CARBON EQUIVALENT OF GRAY CAST IRON BY COOLING CURVES 67-06 M14-70296

STUDY OF SOLIDIFICATION OF CAST IRONS
67-06 M14-70356
EFFECTS OF IDENTICAL COOLING CONDITIONS ON THE STRUCTURE AND PROPERTIES OF STEEL BLANKS WITH DIFFERENT DIMENSIONS 67-06 M14-71110
INTERRELATION OF ISOTHERMAL AND CONTINUOUS-COOLING HEAT TREATMENTS OF LOW-ALLOY STEELS AND THEIR PRACTICAL SIGNIFICANCE 67-06 M14-71934
PHASE TRANSFORMATIONS IN AL-ZN ALLOYS
67-06 M14-72344
EFFECT OF COOLING RATE ON STRUCTURE AND PROPERTIES OF ST. 3 STEEL 67-07 M10-72860
THE CONTACT MELTING OF TIN SYSTEMS
67-07 M14-73485
RESEARCH INTO THE PROPERTIES OF CAST HIGH-SPEED STEELS 67-08 M06-75460
THE SUITABILITY OF THE END QUENCH TEST AND THE TIME-TEMPERATURE-TRANSFORMATION DIAGRAM FOR THE PREDICTION OF THE HARDENING OF ROUND STEEL BARS
67-08 M10-75590
STUDY OF THE KINETICS OF THE ISOTHERMAL TRANSFORMATION OF AUSTENITE IN 20KHGNR STEEL
67-08 M14-74341
THERMAL ANALYSIS OF DUCTILE IRON
67-09 M06-77398
THERMOMECHANICAL TREATMENT OF STEEL DURING ISOTHERMAL TRANSFORMATION OF SUPER-COOLED AUSTENITE 67-09 M10-77422
EFFECT OF STRAIN DEFORMATION ON ISOTHERMAL TRANSFORMATION OF SUPERCOOLED AUSTENITE OF 40KHSA STEEL 67-09 M14-77284
COOLING TRANSFORMATION DIAGRAM FOR AISI 8620
67-10 M10-78761
EFFECTS AND TECHNOLOGY OF THE QUENCHING OF HARDENABLE LIGHT-METAL SEMIPRODUCTS. PT. 1
67-10 M10-79386
INVESTIGATION OF CHROME STEELS AFTER CONTINUOUS COOLING AT DIFFERENT RATES 67-10 M14-78847
KINETICS OF ISOTHERMAL CRYSTALLIZATION OF CHROMIUM ALLOYED CAST IRONS 67-10 M14-79668
THERMOKINETIC DIAGRAM AND COOLING CURVES, PRODUCT STRUCTURE AND PROPERTIES 67-10 M14-79855
A TEST FOR DETERMINING CARBON EQUIVALENT OF HYPEREUTECTIC CAST IRON 67-10 M19-79292
STUDY OF THE EQUILIBRIUM DIAGRAM OF THE TINI-TIFE SYSTEM 67-11 M13-81172
THE EFFECT OF THE FOUR MOST IMPORTANT ALLOYING ELEMENTS OF CAST IRON 67-11 M14-81384
EFFECT OF ARSENIC ON THE PRIMARY CRYSTALLIZATION OF MAGNESIUM CAST IRON 67-12 M06-81975
CASTING COPPER ALLOYS INTO SHELL MOLDS OF METALLIC SAND 67-12 M06-81982
TEMPERATURE DISTRIBUTION IN AN INGOT COOLED BY SURFACE RADIATION 67-12 M06-82115
ALLOYING OF STEELS FOR PETROLEUM INDUSTRY TUBING
67-12 M10-83536
THE CONTINUOUS COOLING TRANSFORMATION OF WELDABLE HIGH-STRENGTH STEELS 67-12 M14-81745
THE SOLUBILITY OF INDIUM IN LIQUID SODIUM
67-12 M14-82875
HARDENABILITY OF NICKEL ALLOY STEELS
67-12 M17-81808

COOLING CURVES, ALLOYING EFFECTS
STUDY ON TRANSFORMATION FEATURES OF CARBURIZING CR-MO STEELS 67-01 M14-58309
INDIVIDUAL PROPERTIES OF THE MELTS OF CARBURIZING STEELS 67-02 M14-61972
INDIVIDUAL CHARACTERISTICS OF MELTS OF CARBURIZED STEELS 67-10 M14-78829

COOLING RATE
HEAT CONDITIONS FOR PRODUCING THIN-WALLED PIECES FROM MELT 67-01 M03-57317
THE EFFECT OF GAS CONTENT IN ALUMINUM MELTS ON THE QUALITY OF CASTINGS 67-01 M06-58227
THE EFFECT OF COOLING RATES DURING HARDENING ON THE TOUGHNESS OF HOT WORK TOOL STEELS
67-01 M17-58337
QUENCHING IN THE STREAM OF COMPRESSED GASES
67-02 M10-60856
CALCULATING THE COOLING EFFECTS OF IRON ORE AND A THERMAL FACTOR FOR CONVERTING FROM ORE TO SCRAP METAL 67-04 M04-66707
CHEMICAL MICROHETEROGENEITY IN CAST ALLOYS AS RELATED TO THE COOLING RATE 67-04 M13-67166
EFFECTS OF THE THIRD ADDITION ELEMENTS ON GRAIN SIZE OF PRIMARY SILICON AND ITS COOLING RATE DEPENDENCY IN AL-20 PER CENT SI ALLOY
67-04 M14-67117
THE MAURER DIAGRAM, ITS ERRORS AND ITS EVOLUTION
67-04 M14-67707
TECHNICAL NOTE.. AN EVALUATION OF COOLING RATES IN CHARPY IMPACT SPECIMENS 67-06 M10-71685
THE INFLUENCE OF THE TEMPERATURE CYCLE PARAMETERS ON THE PLASTIC DEFORMATION OF ALUMINIUM DURING THERMAL CYCLING 67-06 M17-71223
THE OXYGEN SOLUBILITY IN UNDER-COOLED IRON MELTS
67-07 M04-72476
MEASUREMENTS OF SOLIDIFICATION TIMES ON PLATES AND SPHERES OF DIFFERENT METALS AND THEIR SIGNIFICANCE FOR THE DESIGN OF FEEDER HEADS
67-07 M06-73491
EFFECTS OF COMPOSITION AND COOLING RATE ON THE INITIAL PERMEABILITY OF MUMETAL
67-07 M15-73534
DIMENSIONAL DISTORTION IN STEEL CASTINGS
67-08 M06-74618
EXPERIMENTAL STUDY OF THE VALIDITY OF CLASSICAL HYPOTHESES CONCERNING HEAT TRANSMISSION
67-08 M06-76231
COOLING RATES IN SPLAT COOLING 67-08 M10-75782
QUENCHING IN A STREAM OF COMPRESSED GASES
67-08 M10-76114
EFFECTS OF COOLING RATE DURING THE SOLIDIFICATION OF SOLID SOLUTIONS ON THE COMPOSITION OF THE AXIAL REGIONS OF DENDRITE BRANCHES
67-09 M14-76888
STUDIES ON THE SOLIDIFICATION PROCESS OF THE ALUMINUM-SILICON ALLOYS 67-12 M06-82103
QUENCHING OF METALS CONTAINING IMPURITY. PT. 2. SUBSTITUTIONAL IMPURITY IN BODY-CENTERED-CUBIC METALS 67-12 M13-82522

COOLING RATE, STRESS EFFECTS
INFLUENCE OF ULTRASONIC VIBRATIONS ON COOLING EFFICIENCY OF QUENCHING MEDIUM
67-06 M10-70057
EFFECT OF ULTRASONIC VIBRATIONS ON THE COOLING CAPACITY OF THE QUENCHING MEDIUM
67-10 M10-78803

COOLING SYSTEMS
ACCELERATED COOLING AFTER COIL ANNEALING
67-01 M10-58492
WATER-COOLED CUPOLA WITH A TAPERING SHAFT
67-02 M06-61011
PROGRESS IN FULFILLING RECOMMENDATIONS OF THE ALL-UNION CONFERENCE OF STEELMAKERS
67-04 M04-66208
THERMAL-FATIGUE TESTS OF RESTRAINED COMBUSTOR-COOLING TUBES 67-08 M17-75367

COOLING SYSTEMS, CORROSION
CORROSION AND BIOLOGICAL FOULING CONTROL IN RECIRCULATING COOLING SYSTEMS
67-04 M18-66156
WATER TREATMENT FOR COOLING SYSTEMS
67-05 M18-68698
USE OF AMMONIA TO SUPPRESS OXYGEN PRODUCTION AND CORROSION IN BOILING-WATER REACTORS
67-06 M18-70489
NITRITE AS A CORROSION INHIBITOR--CONTROLLING DEPLETION OF SODIUM NITRITE 67-06 M18-72339
EVALUATION OF CORROSION INHIBITORS FOR A LARGE INDUSTRIAL COOLING SYSTEM 67-09 M18-77483

COOLING SYSTEMS, STRUCTURAL MATERIALS
THE EFFECTS OF FREON-22 ON CERTAIN ALUMINUM ALLOYS AND NONMETALLIC SUBSTANCES 67-09 M18-76563

COPES /MOLDS/
SEE SAND MOLDS

COPPER
ENGINEERING TRENDS IN COPPER AND ITS ALLOYS
67-06 M01-70803
RESEARCH INTO THE DENSITY OF DEFORMED METALS AND ALLOYS 67-08 M17-75441
CU AND CU ALLOYS IN ENGINEERING
67-09 M01-77501

COPPER, ACOUSTIC PROPERTIES
TWO CASES OF SHOCK-WAVE PROPAGATION IN A METAL
67-04 M15-68011
ELECTRONIC ACOUSTIC ATTENUATION FOR --001-- LONGITUDINAL WAVE PROPAGATION IN COPPER
67-05 M16-69374

COPPER, ALLOYING ADDITIVE
EFFECT OF COPPER ON PRIMARY STRUCTURE OF CAST IRON
67-01 M14-57324
INFLUENCE OF ADDITION OF AG OR CU ON THE FORMATION OF G-P ZONE IN AL-ZN ALLOY 67-02 M14-59750
INFLUENCE OF COPPER ON AL-SI-CU SYSTEM DIE CASTING ALLOYS 67-02 M17-59728
PROPERTIES OF PEARLITIC AND ANNEALED FERRITIC NODULAR-IRONS ALLOYED WITH COPPER

67-02 M17-60883
IRON ALLOYS WITH ALUMINUM AND COPPER. PT. 1. EFFECT OF COPPER ON THE HIGH-TEMPERATURE CORROSION RESISTANCE OF CAST STEELS AND HIGH-ALUMINUM CAST IRONS 67-02 M18-58984
TWO CORROSION RESISTANT STEELS FROM JAPAN 67-02 M18-59466
OXIDATION MECHANISM OF ZIRCONIUM-COPPER ALLOYS IN CARBON DIOXIDE AT HIGH TEMPERATURES 67-02 M18-62191
EFFECT OF COPPER CONTENT AND HOMOGENIZATION HEAT TREATMENT ON BRIGHT ANODIZING OF 1MG AL ALLOY SHEETS 67-03 M12-65040
EFFECT OF SMALL ADDITIONS OF COPPER ON SINTERING OF STAINLESS STEEL 67-04 M09-66094
EFFECT OF COPPER IN THE COMPOSITION OF AN ALLOY ON THE WEAR RESISTANCE OF HARD WELD OVERLAYS 67-04 M17-66651
CAST IRONS CONTAINING COPPER 67-04 M17-67714
X-RAY MEASUREMENT OF ORDER IN CUAU2 67-05 M14-69756
EXTENSION TO THE TERNARY ALLOY AU0.050-CU0.45-NI0.05 OF THE AU-CU TYPE. RELATIONS BETWEEN THERMODYNAMIC FUNCTIONS AND DEGREE OF ORDER ALREADY ESTABLISHED BY AUCU3 67-05 M15-68909
PHOTOELECTRIC PROPERTIES OF SILICON DOPED WITH COPPER, TUNGSTEN AND PLATINUM 67-05 M16-69380
EFFECTS OF ADDING SMALL AMOUNTS OF COPPER AND SILVER ON THE CORROSION OF AL-ZN-MG SYSTEM ALLOYS 67-05 M18-69053
INVESTIGATION BY MEANS OF THE ELECTRON MICROSCOPE OF PRECIPITATION IN AL-CU SOLID SOLUTIONS. PT. 3. THE DIAGRAM FOR THE FORMATION OF NUCLEI IN AL-CU ALLOYS 67-06 M14-71835
APPLICATION OF HIGH-PURITY AL IN THE DEVELOPMENT OF HIGH-STRENGTH AL-ZN-MG-CU ALLOYS 67-06 M17-71979
EFFECT OF CU IN GRAY CAST IRONS 67-06 M17-71980
THE SCALING OF BINARY ALLOYS OF TITANIUM CONTAINING 5 WT. PER CENT OF ALUMINIUM, COPPER, OR COBALT IN CARBON DIOXIDE AT 1000 C 67-06 M18-70794
INFLUENCE OF COPPER ON THE PRIMARY STRUCTURE OF CAST IRON 67-07 M14-73046
INFILTRATION OF COPPER AND BRASS INTO SINTERED IRON COMPACTS 67-07 M14-73252
CHANGE OF MAGNETIC PROPERTIES OF DILUTE GOLD-CHROMIUM ALLOYS BY SUBSTITUTIONS OF TIN, ALUMINUM, AND COPPER FOR GOLD 67-07 M15-73560
MECHANISM OF THE INFLUENCE OF DIFFERENT ELEMENTS ON THE GRAPHITIZATION OF CAST IRON 67-08 M14-74545
COPPER AS AN ALLOY IN STEEL AND CAST IRON 67-08 M17-74453
JOUVENCEL.. A ZERO CARBON STEEL 67-09 M07-77108
EFFECT OF THE SOLUTE CONTENT ON THE DENDRITIC STRUCTURE IN COLUMNAR CRYSTALS OF BINARY ALLOY 67-09 M14-78230
EFFECTS OF COPPER ON THE MECHANICAL PROPERTIES OF IRON 67-09 M17-76804
STRUCTURE OF LIQUID ALUMINIUM-COPPER ALLOYS 67-10 M13-78603
INFLUENCE OF COPPER UPON STRUCTURE AND MECHANICAL PROPERTIES OF GREY CAST IRON--RESULTS OF A SYSTEMATIC INVESTIGATION 67-10 M17-79404
DUCTILE ZINC-COPPER-TITANIUM ALLOYS. PT. 2 67-10 M17-79652
THE ANNEALING OF QUENCHED-IN VACANCIES IN DILUTE ALUMINIUM ALLOYS 67-11 M10-80302
THE USE OF ALLOYED HARD CAST IRON IN INDUSTRY 67-11 M13-81542
INFLUENCE OF PRECIPITATES ON THE MECHANICAL PROPERTIES OF ZR-CU ALLOYS 67-11 M17-80149
INFLUENCE OF COPPER UPON STRUCTURE AND MECHANICAL PROPERTIES OF GREY CAST IRON--RESULTS OF A SYSTEMATIC INVESTIGATION 67-11 M17-80239
THE EFFECT OF 1 PER CENT COPPER ADDITION ON THE ATMOSPHERIC CORROSION OF ROLLED ZINC 67-11 M18-80681
MACROSEGREGATION. PT. 1 67-12 M06-82766
INFLUENCE OF COPPER ON HARDENABILITY OF GRAY IRON 67-12 M10-82359
TRANSIENT SOFTENING DURING AGING OF SOME ALUMINUM-BASED SOLID SOLUTIONS 67-12 M10-82977
SOME OBSERVATIONS ON THE STRUCTURE OF THE EQUIAXED ZONE IN ALUMINUM-COPPER ALLOYS 67-12 M13-82769
METHODS OF DETERMINING THE COEFFICIENT OF IMPURITY DISTRIBUTION IN DIRECTIONAL SOLIDIFICATION 67-12 M14-82332
MAGNETIC ANALYSIS OF DILUTE BINARY ALLOYS OF COPPER, ZINC, AND MAGNESIUM IN ALUMINUM 67-12 M15-82966
THE EFFECT OF COBALT, NICKEL AND COPPER ON THE STRUCTURE AND THE MECHANICAL PROPERTIES OF SPHEROIDAL GRAPHITE CAST IRON 67-12 M17-82919
INFLUENCE OF PHOSPHORUS AND COPPER ON THE ANISOTROPY AND DRAWABIILTY OF EXTRAMILD RIMMED STEEL 67-12 M17-83229
THE EFFECT OF SMALL ADDITIONS OF COPPER ON THE CORROSION RESISTANCE OF ALUMINIUM AND ALUMINIUM ALLOYS 67-12 M18-81965

COPPER, ALLOYING EFFECTS
EFFECT OF COPPER IN HEAVY-SECTION NODULAR-IRON CASTINGS 67-02 M06-61700

COPPER, ATOMIC PROPERTIES
ABSOLUTE MEASUREMENT OF X-RAY SCATTERING FACTORS OF COPPER 67-04 M16-67478
COPPER, COPPER ALLOYS AND THE ELECTRON CONCENTRATION CONCEPT 67-06 M16-71968
A REPLY TO HUME-ROTHERYS NOTE ON THE ENGEL-BREWER THEORY 67-06 M16-71969
COMMENTS ON PAPERS RESULTING FROM HUME-ROTHERYS NOTE-1965 67-06 M16-71970
CRYSTAL DYNAMICS OF COPPER 67-07 M16-73937
MORSE-POTENTIAL EVALUATION OF SECOND- AND THIRD-ORDER ELASTIC CONSTANTS OF SOME CUBIC METALS 67-09 M16-77156
ATTENUATION OF TRANSVERSE ULTRASOUND IN COPPER 67-09 M16-77160
THE EFFECT OF TENSION ON THE FERMI SURFACES OF THE NOBLE METALS 67-09 M16-77525
SUPPORTING EVIDENCE FOR LONG-RANGE DEFECT MIGRATION IN THE STAGE-1 RECOVERY OF COPPER 67-10 M16-79413
X-RAY DIFFRACTION ANALYSIS OF METALLIC COPPER 67-12 M16-82326
COMPARISON OF THE ATOMIC DISTRIBUTION FUNCTIONS OF LIQUID AND SOLID METALS 67-12 M16-83005

COPPER, ATOMIC STRUCTURE
STRUCTURE OF COPPER AND NICKEL MELTS NEAR THE FUSION TEMPERATURE 67-06 M16-69973

COPPER, ATTENUATION
ELECTRON VISCOSITY AND ULTRASONIC ATTENUATION IN NOBLE METALS 67-05 M16-69813

COPPER, BAND THEORY
X-RAY L3-SPECTRA AND STRUCTURE OF 3D-, 4S-ENERGY BANDS OF COPPER 67-02 M16-62077
INTERPOLATION SCHEME FOR BAND STRUCTURE OF NOBLE AND TRANSITION METALS--FERROMAGNETISM AND NEUTRON DIFFRACTION IN NI 67-03 M16-65027
SELF-CONSISTENT ENERGY BANDS OF METALLIC COPPER BY THE AUGMENTED-PLANE-WAVE METHOD 67-09 M16-77167
ELECTRONIC SPECTRUM OF CRYSTALLINE COPPER 67-09 M16-77169

COPPER, BENEFICIATION
AT WORLDS NONFERROUS PLANTS --OXYGEN SMELTING GETS MAJOR PUSH 67-01 M03-58573
COMPLEX REPROCESSING OF CLINKERS OF ZINC WORKS 67-04 M02-66967
STUDY OF THE FEASIBILITY OF REMOVING ZINC FROM POLYMETALLIC CONCENTRATES DURING OXYGEN JET MELTING 67-05 M03-69533
ION EXCHANGE RECOVERY OF COPPER PROMISING 67-07 M03-72997

COPPER, BIMETALS
STEEL WIRE CLAD WITH COPPER FOR LEADS TO RADIO PARTS 67-07 M20-74149

COPPER, BINARY SYSTEMS
THE CRYSTALLINE STRUCTURE AND STRUCTURAL RELATIONSHIP OF THE GAMMA AND EPSILON PHASES IN THE SYSTEM CU-SN 67-01 M14-58625
CALCULATING SOLIDUS CURVES OF GERMANIUM SOLID SOLUTIONS IN GE-CU, GE-AG AND GE-AU SYSTEMS 67-02 M13-61727
STUDY OF PHASE DIAGRAMS IN BINARY SYSTEMS BASED ON ISOACTIVITIES 67-04 M13-67849
FORMATION AND GROWTH OF INTERMETALLIC COMPOUNDS IN THE CU-ZN SYSTEM 67-04 M14-66014
PROPERTIES OF THE FREE ENERGY ASSOCIATED WITH THE INTERDIFFUSION OF TWO SOLIDS 67-04 M15-66064
THE EFFECT OF ALLOYING ADDITIONS ON THE EQUILIBRIUM OF HIGH-CU CU-TI ALLOYS 67-05 M13-68513

THE CUO-V2O5 SYSTEM 67-05 M14-68919
CRYSTALLOGRAPHIC COMPLEXITIES IN THE AL-CU SYSTEM 67-06 M14-72232
PHASE DIAGRAM OF THE SYSTEM TITANIUM-COPPER 67-07 M13-73279
BERYLLIUM-RICH END OF FIVE BINARY SYSTEMS 67-07 M13-73742
MUTUAL DIFFUSION IN SOME BINARY SYSTEMS WHICH FORM CONTINUOUS SERIES OF SOLID SOLUTIONS 67-07 M14-73476
MECHANISM OF LIQUID PHASE SINTERING IN THE IRON-COPPER SYSTEM 67-08 M09-75389
THE TEMPERATURE OF THE EUTECTIC TRANSFORMATION IN THE IRON-COPPER SYSTEM 67-09 M14-77352
ELECTROLYTIC DISSOLUTION OF BINARY ALLOYS CONTAINING A NOBLE METAL 67-09 M14-77892
THE ALUMINUM BRONZES IN WELDED STRUCTURES 67-09 M14-77973
DETERMINATION OF INTRINSIC DIFFUSION COEFFICIENTS BY MEASUREMENT OF THE KIRKENDALL EFFECT IN THE CU-NI SYSTEM 67-09 M14-78013
EFFECT OF ALLOYING ON ALUMINUM K AND COPPER L X-RAY EMISSION SPECTRA IN THE ALUMINUM-COPPER SYSTEM 67-09 M16-77436
THERMAL DIFFUSIVITY AND ELECTRICAL CONDUCTIVITY OF ALLOYS OF THE COPPER-ANTIMONY SYSTEM IN THE LIQUID STATE 67-11 M15-80654
A NOTE ON THE ELECTRICAL RESISTIVITY OF SOME 1-4 AND 3-5 LIQUID ALLOY SYSTEMS 67-11 M15-81571
THE MECHANICAL PROPERTIES OF THREE GAMMA BRASS TYPE INTERMEDIATE PHASES--GAMMA CUZN, GAMMA AGZN, AND GAMMA CUCD 67-12 M17-82864

COPPER, BONDING
STRUCTURAL ADHESIVES BOND METAL GLASS AND RUBBER 67-02 M11-61858
THE ADHESIVE BONDING OF ZN, CU, BRASS AND BROWN-FINISHED STEEL 67-05 M11-69033
THE ADHESIVE BONDING OF CU AND ITS ALLOYS 67-05 M12-68512

COPPER, BRAZING
OBSERVATIONS ON THE USE OF BRAZING IN ELECTRICAL INDUSTRIES AND ELECTRONICS 67-02 M11-60989
PRECISE BRAZING STRESSED IN ANCHOR COUPLINGS GROWING FURNACE DEPARTMENT 67-03 M11-65468
LOW-VAPOR PRESSURE BRAZING ALLOYS FOR GRADUAL BRAZING IN TEMPERATURE RANGE FROM 450 TO 600 C 67-06 M11-71653
ON ORIENTED CRYSTALLISATION IN BRAZED SEAMS 67-12 M14-82417

COPPER, BUS CONDUCTORS
MEASURING ELECTRICAL CONDUCTIVITY OF AL-CU WELDED JOINTS 67-01 M15-57398

COPPER, CASTING
PRODUCTION OF COPPER WIRE ROD BY DIPFORMING. PT. 1 67-01 M06-58531
CONTINUOUS CASTING OF NON-FERROUS METAL BILLETS AND SLABS. PT. 1 67-02 M03-61644
PRODUCTION OF COPPER WIRE ROD BY DIPFORMING. PT. 2 67-02 M06-58801
CONTINUOUS CASTING OF NON-FERROUS METAL BILLETS AND SLABS. PT. 2 67-03 M03-65500
DIE MATERIALS PACE CASTING PROGRESS 67-03 M06-65491
PRODUCING INGOTS OF OXYGEN-FREE COPPER 67-04 M03-66976
CONTINUOUS PRODUCTION OF WIRE, TAPE AND NARROW STRIP 67-05 M06-69593
CASTING AND PREHEATING IN ONE LINE 67-06 M03-70498
NEW ELECTRIC ARC FURNACE INITIATES SEMI-CONTINUOUS CASTING, EXTRUDING AND DRAWING OF COPPER TUBING AT HALSTEADS WYNNE PLANT 67-06 M03-71317
INVESTMENT-CASTING OF OXYGEN-FREE HIGH-CONDUCTIVITY COPPER 67-06 M06-71040
HOLLOW COPPER BILLETS CONTINUOUSLY CAST FOR EXTRUSION AT HALSTEAD PLANT 67-07 M03-73841
THE VACUUM CASTING OF HIGH PURITY COPPER PARTS 67-08 M06-75037
NOMOGRAPH FOR THE DETERMINATION OF GATE AREAS OF GRAY IRON CASTINGS 67-08 M06-75699
THE PROPERZI PROCESS--1967 PROGRESS REPORT. PT. 1 67-10 M06-80092

COPPER, CAVITATION
INVESTIGATION OF THE RESISTANCE TO CAVITATION AND THE KINETICS OF CAVITATION BREAKDOWN OF METALLIC ALLOYS 67-02 M18-59896
EFFECT OF STRAINING AND ANNEALING ON THE CAVITATION RESISTANCE OF CERTAIN METALS AND ALLOYS 67-08 M18-74338

COPPER, CEMENTATION
AN EXAMINATION OF COPPER AND SILVER CEMENTATION KINETICS WITH METALLIC IRON FROM CHLORIDE SOLUTIONS 67-06 M03-71343

COPPER, CHEMICAL ANALYSIS
POLAROGRAPHIC DETERMINATION OF BISMUTH AND COPPER IN REFINED LEAD 67-01 M19-58732
ANALYSIS OF COPPER AND ITS ALLOYS 67-07 M01-72927
IDENTIFICATION OF SEVERAL ELEMENTS AND QUANTITATIVE DETERMINATION OF NICKEL AND COPPER IN COINS BY A COMBINED ELECTROGRAPHIC-RING OVEN TECHNIQUE 67-09 M19-77257

COPPER, CLAD METALS
PRODUCING BIMETALS BY VACUUM ROLLING 67-05 M12-68235

COPPER, CLADDING
RESEARCH INTO THE DEFORMATION AND STRENGTH OF LAYER COHESION IN A STEEL-COPPER BIMETAL IN HOT ROLLING 67-01 M12-58072
STRENGTH AND STRUCTURE OF AL-CU BONDED JOINTS 67-05 M17-69541
RESEARCH INTO THE STRUCTURE AND PROPERTIES OF COPPER-CLAD STEEL WHEN IT IS ELONGATED AT A HIGH TEMPERATURE IN A VACUUM 67-09 M12-76559

COPPER, CLEANING
MACHINE UNIT FOR CONTINUOUS STRAND PICKLING AND SURFACE TREATMENT OF WIRE RODS IN HELICAL MOVEMENT 67-02 M12-59006
AUTOMATIC PICKLING OF BRASS AND COPPER WIRE 67-03 M12-65121
THE DRAWING OF COPPER WIRE. PT. 3. PICKLING AND SCALPING 67-04 M12-66712
CHEMICAL DERUSTING IN THE PRODUCTION LINE 67-12 M12-82131
PICKLING OF COPPER AND BATH REGENERATION BY ELECTROLYSIS 67-12 M12-83384

COPPER, COATING
COHERENT COATINGS OF REFRACTORY METALS 67-01 M12-57539
THE DEVELOPMENT OF TIN PLATING. PT. 3. WITH SPECIAL REFERENCE TO BRIGHT-TIN ELECTRODEPOSITION 67-01 M12-57560
ELECTROLESS NICKEL PLATING FROM ALKALI SOLUTIONS IN ABSENCE OF ORGANIC ADDITIONS 67-01 M12-58712
INVESTIGATION OF THE MICROSTRUCTURE AND PHASE COMPOSITION OF A DIFFUSION LAYER IN A 3-COPPER BIMETAL STEEL 67-02 M13-59664
ELECTRODEPOSITION OF COPPER ON COPPER SINGLE CRYSTALS --100--, --110-- AND --111-- FROM ACID COPPER SULFATE BATH 67-02 M14-60280
A NEW BLACK CHROMIUM PLATE 67-03 M12-65326
EXPERIENCE WITH EPOXY POWDER SPRAY METHODS FOR METAL COATING 67-03 M12-65568
ELECTRODEPOSITION OF SOME METALS FROM TETRAMETHYLUREA 67-03 M12-65809
PRINCIPLES OF BRIGHTENING 67-04 M12-66349
OBTAINING A SURFACE LAYER SIMILAR TO SAP 67-04 M12-66878
FLEXIBLE PERFORMANCE PLATER 67-04 M12-68165
DISCUSSION OF THE EFFECTS OF METALLIC COATINGS ON THE TORSIONAL RECOVERY OF WIRES 67-04 M17-66543
THE ELECTRODEPOSITION OF IRIDIUM 67-05 M12-68829
EFFECTS OF ADDITION AGENTS IN THE ELECTRODEPOSITION OF NICKEL ON COPPER SINGLE CRYSTAL --100-- SUBSTRATE 67-05 M12-69002
FLAME SPRAYING BY MEANS OF PLASMA AND ELECTRIC ARC 67-05 M12-69122
MULTI-DUTY COATING FOR NONFERROUS METALS 67-06 M12-70226
SILVER-PLATED/NICKEL-PLATED COPPER WIRE SHOWS INCREASED CORROSION RESISTANCE 67-06 M18-72093
DEVELOPMENTS AND TENDENCIES IN PRECIOUS-METAL ELECTROPLATING. PT. 4 67-07 M12-73820
PROTECTION OF COPPER BY DIFFUSION COATING WITH ALUMINUM 67-07 M12-74190
COLORED FINISHES FOR COPPER AND COPPER ALLOYS USING SELENIOUS ACID 67-08 M12-74612
RECENT DEVELOPMENTS IN THE VACUUM DEPOSITION OF ELECTRONIC FILM CIRCUITS 67-08 M12-75175
FLUIDIZED BED INSULATES BUS BARS 67-08 M12-75532
LIQUID POLYETHLENE DISPERSIONS COAT STEEL, ALUMINUM, COPPER 67-08 M12-76064
STRUCTURAL AND MAGNETIC PROPERTIES OF EPITAXIAL FILMS OF IRON 67-08 M15-75243

COPPER

BATHING METAL WITH ALLOY COATINGS
67-09 M12-76448
CONTINUOUS OXIDE COATING OF COILED COPPER FOIL IN A NIIM DEVICE 67-09 M12-76959
EVIDENCE FOR PSEUDOMORPHIC GROWTH OF IRON ON COPPER
67-09 M14-77517
STRESS DURING THE DEPOSITION OF ZINC ON COPPER SUBSTRATE 67-10 M12-79052
DEFEATING THE RED PLAGUE 67-10 M18-79428
NEW GALVANIC BRIGHT CHROME BATHS BASED ON TETRACHROMATE 67-11 M12-81075

COPPER, COATINGS
COPPER PYROPHOSPHATE BATHS 67-01 M12-58121
THE USE OF THE ELECTRON BEAM THICKNESS GAGE ON MULTI-LAYERED COATINGS 67-01 M19-57541
PLATING ON ALUMINUM AND ALUMINUM ALLOYS
67-02 M12-60991
DEFINITION OF ELECTROLYTES AND ELECTRODEPOSITS
67-02 M12-62288
SUPPRESSION OF SURFACE SUPERCONDUCTIVITY BY COATING WITH A NORMAL METAL 67-02 M16-60257
IMPROVEMENTS IN THE CORROSION RESISTANCE OF ELECTROPLATED LAYERS OF THE CU-NI-CR SYSTEM FOR USE IN THE AUTOMOTIVE INDUSTRY
67-02 M18-60032
SOME EXPERIENCES IN COPPER ELECTROFORMING OF WAVE GUIDES 67-03 M08-65418
DEPOSITION OF THIN FILMS UNDER THE INFLUENCE OF FAST ION IRRADIATION 67-04 M12-67057
COPPER CLAD ALUMINUM WIRE--A NEW ELECTRICAL CONDUCTOR MATERIAL 67-04 M20-66132
COPPER-COATED STEEL STRIP SOLVES PROBLEMS, REDUCES COSTS, IMPROVES PRODUCT QUALITY
67-04 M20-67491
COPPER-COATED STEEL STRIP CUTS COSTS
67-06 M20-70609
PLATING PLASTICS 67-07 M12-74155
THE STRUCTURE OF ELECTRODEPOSITS AND CATALYSTS EXAMINED BY X-RAY DIFFRACTION TECHNIQUES 67-07 M13-74220
INTERNAL STRESS IN ELECTRODEPOSITS
67-07 M17-73626
ELECTROFORMING--A NEW PROCESS 67-08 M12-74569
APPLICATIONS OF METAL FINISHING IN PRINTED CIRCUITS. PT. 1 67-09 M12-77388
A HIGH CURRENT VACUUM DISCHARGE FOR TRIODE-SPUTTERING IN THE 10-4 TORR RANGE
67-09 M12-77533
MECHANISMS OF THE FORMATION OF EPITAXIAL STRUCTURES IN COPPER CONDENSATES 67-09 M13-77778
PLASMA ARC DEPOSITION OF COPPER ON STEEL USING A LIVE FILLER METAL ELECTRODE 67-10 M12-78402
FATIGUE CRACKING OF IRON AFTER ELECTROPLATING
67-10 M17-79767
A METAL-PLASTIC ANTIFRICTION MATERIAL FOR THE MANUFACTURE OF COMPOSITE BUSHINGS OPERATING UNDER DRY FRICTION CONDITIONS
67-11 M09-80890
SOME PHYSICOMECHANICAL CHARACTERISTICS OF DIFFUSION-COPPER-PLATED CARBON STEEL
67-11 M17-80590
A KINETIC STUDY OF COPPER PRECIPITATION ON IRON.
67-12 M12-82584

COPPER, COMPACTING
MANUFACTURING OF PARTS BY VIBRATION COMPACTING
67-06 M09-72320

COPPER, COMPOSITE MATERIALS
FIBER-METAL COMPOSITES 67-03 M14-65346
ELECTRICAL RESISTIVITY AND CONDUCTIVITY OF TUNGSTEN-FIBER-REINFORCED COPPER COMPOSITES
67-04 M15-66944

COPPER, CORROSION
STUDY OF CORROSION AND CORROSION PROTECTION OF COPPER AND ITS ALLOYS 67-01 M18-58373
MECHANISM OF EVAPORATION OF SULFUR FROM SULFIDE SCALES 67-02 M14-58895
ANODIC BEHAVIOR OF COPPER IN NACL AQUEOUS SOLUTIONS
67-02 M18-59739
ON THE FORMATION OF ANODIC FILMS ON CU IN 3 PER CENT NACL AQUEOUS SOLUTIONS 67-02 M18-59740
EFFECTS OF ARSENIC ON ELECTRO-CHEMICAL BEHAVIORS OF COPPER AND COPPER-ZINC ALLOYS IN 3 PER CENT NACL AQUEOUS SOLUTION 67-02 M18-59988
OBSERVATION OF LOW TEMPERATURE OXIDATION PROCESS OF PURE COPPER BY 0.6 MICRON MONOCHROMATIC LIGHT
67-02 M18-60271
ADHESIVE TAPES AS SHORT- AND LONG-TERM CORROSION INHIBITORS 67-02 M18-61642
SOME VAPOR PHASE INHIBITOR EXPERIMENTS
67-03 M18-65474
THE CORROSION OF METALS IN THE WATER OF THE DEAD SEA 67-04 M16-67431
GALVANIC PITTING IN METALLIC COATINGS
67-04 M18-66715
BENZOTRIAZOLE AND RELATED COMPOUNDS AS CORROSION INHIBITORS FOR COPPER 67-05 M18-68311
CORROSION PROTECTION THROUGH BLUEING AND BLACKING
67-05 M18-69104
CORROSION OF SOME METALS AND ALLOYS IN ALUMINUM ALLOY 67-06 M18-70177
CONTRIBUTION TO THE PHENOMENOLOGY OF CORROSION AND PATINA FORMATION OF ANTIQUE COPPER ALLOYS
67-06 M18-70245
CAVITATION DAMAGE AND CRYSTAL STRUCTURE --A STUDY OF CAVITATION DAMAGE FROM THE VIEWPOINT OF MATERIAL SCIENCE. PT. 3.-- 67-06 M18-70780
EFFECT OF IMMERSION TIME FOR POLARIZATION PHENOMENA OF CONDENSER TUBE IN A FLOWING NACL SOLUTION
67-06 M18-71442
THE COPPER PLATE EXPOSED ON THE TOP OF A CHURCH IN SYDNEY CITY FOR 230 YEARS 67-06 M18-71447
INHIBITION OF COPPER CORROSION IN HCL SOLUTIONS
67-08 M18-75061
ELECTROLYTIC A-C CORROSION OF SOME METALS
67-08 M18-76255
ON THE INFLUENCE OF CERTAIN ORGANIC SUBSTANCES UPON THE ANODIC DISSOLUTION OF METALS IN NEUTRAL SOLUTIONS. PT. 4. ANODIC DISSOLUTION OF COPPER 67-09 M18-77096
CRITERIA OF SOIL AGGRESSIVENESS TOWARDS BURIED METALS. PT. 3. VERIFICATION OF PREDICTED BEHAVIOR OF SELECTED SOILS 67-09 M18-77488
ANODIC BEHAVIOR OF COPPER ELECTRODE IN NACL AQUEOUS SOLUTION 67-09 M18-77876
FORMATION OF ANODIC FILM ON COPPER IN 3 PER CENT NACL AQUEOUS SOLUTION 67-09 M18-77877
CORROSION RESISTANCE OF PLATINUM, COPPER NICKEL, AND TANTALUM IN LIQUID OXYGEN DIFLUORIDE
67-09 M18-77893
INVESTIGATING INTERNAL CORROSION OF COPPER TUBING
67-10 M18-78601
MEASUREMENT OF ATMOSPHERIC FACTORS AFFECTING THE CORROSION OF METALS 67-11 M18-80689
CORROSION AND CORROSION PRODUCT DEPOSITION IN STEEL-COPPER SYSTEMS WITH CIRCULATING HOT WATER CONTAINING VARIOUS INHIBITORS
67-11 M18-80713
SELECTION OF INHIBITORS FOR LONG-TERM CONSERVATION OF WATER SYSTEMS 67-11 M18-81283
ATMOSPHERIC CORROSION TESTS IN SWEDEN. COPPER AND COPPER ALLOYS 67-11 M18-81521
ANODIC DISSOLUTION OF COPPER-ZINC ALLOYS IN ALKALINE SOLUTIONS 67-11 M18-81548
CORROSION AND HEAT TRANSFER--A REVIEW
67-11 M18-81549
EFFECT OF STEAM TEMPERATURE ON THE CORROSION OF METALS UNDER HEAT-TRANSFER CONDITIONS
67-11 M18-81551
ATMOSPHERIC CORROSION OF COPPER METALS
67-12 M18-81819
REFERENCE CELLS AID CORROSION TESTS
67-12 M18-83168

COPPER, CRACK PROPAGATION
ELECTRON MICROSCOPY AND METALLOGRAPHIC INVESTIGATIONS OF THE NATURE OF STRUCTURAL DISTURBANCES DURING STRAIN CYCLING
67-01 M17-57639
KINETICS OF CRACK PROPAGATION IN METAL FOILS
67-01 M17-57698

COPPER, CRACKING /FRACTURING/
EFFECT OF HIGH PRESSURE ON THE PLASTICITY AND BREAKDOWN OF METALS 67-01 M17-57700

COPPER, CREEP TESTS
SOME RELATIONSHIPS IN THE DEVELOPMENT OF DESTRUCTION NUCLEI UNDER THE INFLUENCE OF CREEP
67-08 M17-74964

COPPER, CRYSTAL DEFECTS
INFLUENCE OF JOG CONCENTRATION ON THE CONSERVATIVE MOTION OF DISLOCATIONS IN COPPER
67-03 M13-65894
THE ENERGY OF DISSOCIATED TRIANGULAR FRANK DISLOCATION LOOPS IN F. C. C. METALS
67-05 M13-68754
NUCLEATION OF DEFECTS IN METALS
67-05 M14-69730
ELECTRON MICROSCOPY OF TYPES OF DEFECT CLUSTERS IN IRRADIATED METALS. PT. 1. THEORY OF CONTRASTS AND EXPERIMENTAL METHODS FOR IDENTIFICATION OF DEFECT

TYPES 67-05 M16-69782
ELECTRON MICROSCOPY OF TYPES OF DEFECT CLUSTERS IN IRRADIATED METALS. PT. 2. STUDY OF NEUTRON AND ION IRRADIATED COPPER AND NEUTRON IRRADIATED NICKEL 67-05 M16-69783
DISLOCATION SUBSTRUCTURE IN STRAIN-CYCLED COPPER AS INFLUENCED BY TEMPERATURE 67-06 M14-70419

COPPER, CRYSTAL GROWTH
ELECTRON DIFFRACTION STUDIES OF THE EPITAXY OF CU SINGLE CRYSTALS. PT. 2. EARLY STAGES OF EPITAXY AND INTERFACIAL DISLOCATION NETWORKS 67-01 M13-57109
INFLUENCE OF THE VAPORIZATION METHOD ON THE STRUCTURE AND PROPERTIES OF AL AND CU VACUUM CONDENSATES 67-02 M17-62080
RECOVERY OF BENT COPPER WHISKERS 67-08 M14-76219

COPPER, CRYSTAL LATTICES
ELECTRON DIFFRACTION STUDIES OF THE EPITAXY OF CU SINGLE CRYSTALS. PT. 1. EPITAXY OF EVAPORATED CU FILMS ON CU CRYSTALS 67-01 M13-57108
THE NATURE OF DEFECTS IN NEUTRON-IRRADIATED CU OBSERVED BY ELECTRON MICROSCOPE 67-01 M13-57580
ENERGY AND ATOMIC CONFIGURATIONS OF COMPLETE AND DISSOCIATED DISLOCATIONS. PT. 2. SCREW DISLOCATION IN AN FCC METAL 67-01 M13-58752
PROOF AND ORIGIN OF INTERSTITIAL ATOM AGGLOMERATES IN CU FOILS EXPOSED TO IONIC IRRADIATION 67-01 M16-57581
DISPLACEMENT SPIKES IN CUBIC METALS. PT. 1. ALPHA IRON, COPPER, AND TUNGSTEN 67-01 M16-58753
EFFECT OF STRAINING CONDITIONS DURING ROLLING ON THE MAGNITUDE OF MICRODISTORTIONS OF THE CRYSTAL LATTICE AND DIMENSIONS OF THE BLOCK STRUCTURE 67-02 M13-58899
SLIP ROTATIONS OF POLYCRYSTALLINE COPPER HAVING THE --001-- --110-- ORIENTATION DURING ROLLING 67-02 M14-59111
FRICTIONAL WEAR IN FCC METAL SINGLE CRYSTALS 67-02 M14-60142
ON THE CRYSTAL LATTICE DEFECTS IN METALLIC FINE PARTICLES 67-02 M14-60143
THE INTERPRETATION OF RECOVERY STAGES IN IRRADIATED METALS 67-02 M14-61520
ELASTIC WAVE VELOCITIES IN CUBE-TEXTURED COPPER SHEET 67-03 M13-65092
STACKING FAULT ENERGY OF FACE CENTERED CUBIC METALS ESTIMATED BY ELECTRON MICROSCOPIC ANALYSIS OF DIFFRACTION CONTRAST OF FAULTED DIPOLES 67-03 M13-65216
MEASUREMENTS OF THE ANISOTROPY OF THE DISLOCATION RESISTIVITY IN AU, AG, AND CU 67-03 M13-65217
RADIATION-INDUCED POINT DEFECT CLUSTERS IN COPPER AND GOLD. PT. 1. CLUSTERS PRODUCED IN ENERGETIC DISPLACEMENT CASCADES 67-03 M13-65375
STACKING FAULT DIPOLES IN FACE-CENTERED CUBIC METAL 67-03 M13-65376
DISLOCATION MORPHOLOGY IN SHOCK DEFORMED BCC AND FCC METALS AND ALLOYS 67-04 M13-66071
THE EXPERIMENTAL STUDY OF POINT DEFECTS IN PURE METALS 67-04 M13-67310
A THEORY OF STEADY-STATE CREEP BASED ON DISLOCATION CLIMB AND ACTIVE FRANK-READ SOURCES 67-04 M14-66897
CHANGE IN THE TENDENCY OF PHOSPHORUS-DOPED COPPER TO THE FORMATION OF STACKING FAULTS 67-04 M14-67100
STRUCTURE AND MECHANICAL PROPERTIES OF COPPER VACUUM CONDENSATES 67-04 M14-67382
CALCULATING THE DIFFUSIONAL GROWTH RATE OF A PORE UNDER THE EFFECT OF APPLIED STRESS 67-04 M14-67917
KINKS IN DISLOCATION LINES AND THEIR EFFECTS ON THE INTERNAL FRICTION IN CRYSTALS 67-04 M17-66229
RADIATION-DAMAGE STUDIES USING DISLOCATION PROPERTIES 67-04 M17-67316
ENERGIES OF STACKING FAULTS AND TWINS FOR NORMAL METALS 67-05 M13-69460
BORRMANN TOPOGRAPHIC INVESTIGATION ON DISLOCATION CONFIGURATION IN WELL-ANNEALED AND LIGHTLY DEFORMED COPPER CRYSTALS 67-05 M13-69469
DEFORMATION AND MICROSCOPIC LATTICE STRAINS IN THE POLYCRYSTALLINE METALS --CRYSTAL PLANE DEPENDENCE OF THE PEAK SHIFT OF X-RAY DIFFRACTION LINE IN ELASTICALLY AND PLASTICALLY ANISOTROPIC METALS AFTER TENSILE DEFORMATION-- 67-05 M14-68467
THE INFLUENCE OF SURFACE ACTIVE INHIBITOR, BOTH INCORPORATED AND ADSORBED, ON THE LATTICE DEFORMATION AND EQUILIBRIUM POTENTIAL OF ELECTROLYTICALLY DEPOSITED CU 67-05 M14-69150
THE EFFECT OF IRRADIATION TEMPERATURE ON THE RESISTIVITY RECOVERY OF COPPER 67-05 M14-69372
ROLLING TEXTURE OF --112-- --110-- COPPER SINGLE CRYSTAL 67-05 M14-69884
THE CHANGE OF CRYSTAL ELASTIC CONSTANT CAUSED BY THE PRESENCE OF VACANCIES 67-06 M13-70635
FAULTED DEFECTS AND STACKING-FAULT ENERGY 67-06 M13-71534
DISLOCATION STRUCTURES IN COPPER SINGLE CRYSTALS DEFORMED IN HIGH TEMPERATURE CREEP 67-06 M13-71539
COMMENTS ON THE DISLOCATION DISTRIBUTION NEAR THE SURFACE OF DEFORMED COPPER 67-06 M13-72241
AN ELECTRON MICROSCOPE INVESTIGATION OF EXPLOSIVELY LOADED COPPER 67-06 M14-71279
A CAMERA FOR BORRMANN STEREO X-RAY TOPOGRAPHS 67-06 M14-71419
DISLOCATION MOTION IN COPPER SINGLE CRYSTALS 67-07 M13-72406
SLIP BEHAVIOR IN COPPER CRYSTALS PREVIOUSLY DEFORMED ON ANOTHER SLIP SYSTEM 67-07 M13-73058
APPLICATION OF X-RAY TOPOGRAPHY TO THE ANALYSIS OF THE DISLOCATION ARRANGEMENT IN DEFORMED COPPER SINGLE CRYSTALS 67-07 M13-73061
STUDY OF DISLOCATION IN LIGHTLY DEFORMED COPPER CRYSTALS USING BORRMAN X-RAY TOPOGRAPHY 67-07 M13-73068
RECOVERY OF ULTRASONIC ATTENUATION IN COPPER SINGLE CRYSTALS FOLLOWING SMALL PLASTIC DEFORMATION 67-07 M14-72637
ON THE THEORY OF ANISOTROPY OF CRYSTALLINE SURFACE TENSION 67-07 M15-73639
MECHANICAL HYSTERESIS IN DEFORMED COPPER CRYSTALS 67-07 M17-72656
STRIATIONS ON COPPER SINGLE CRYSTALS SUBJECTED TO TORSIONAL FATIGUE. PT. 1. A TEST OF THE RELATION OF CROSS SLIP TO FATIGUE STRIATION FORMATION 67-08 M14-75122
STRIATIONS ON COPPER SINGLE CRYSTALS SUBJECTED TO TORSIONAL FATIGUE. PT. 2. THE MECHANISM OF FATIGUE STRIATION FORMATION AND FATIGUE FAILURE AT LOW STRAIN AMPLITUDES 67-08 M14-75123
THE DEPENDENCE OF YIELD STRESS ON FOREST DISLOCATION DENSITY IN COPPER SINGLE CRYSTALS 67-09 M13-76598
THE STUDY OF POINT DEFECTS IN METALS AT THE MAX-PLANCK-INSTITUT FUR METALLFORSCHUNG AND THE TECHNISCHE HOCHSCHULE STUTTGART 67-09 M13-76637
VOIDS IN QUENCHED COPPER, SILVER AND GOLD 67-09 M13-77593
DEFORMATION OF NEUTRON-IRRADIATED COPPER SINGLE CRYSTALS 67-10 M14-78909
LOW-ENERGY ELECTRON DIFFRACTION WITH SPHERICAL SHAPED COPPER CRYSTALS 67-10 M14-79555
SURFACE STRUCTURES ON SPHERICAL COPPER CRYSTALS AFTER ADSORPTION OF OXYGEN 67-10 M14-79556
DETERMINATION OF THE COMPOSITION OF THE ADSORPTION LAYER OF S ON CU --111-- 67-10 M14-79897
ULTRASONIC MEASUREMENTS OF DEFORMED AND ANNEALED MILL PRODUCTS 67-11 M13-80347
THE EFFECT OF THE DISLOCATION STRUCTURE ON THE DISSOLUTION OF CRYSTALS 67-11 M14-80841
DIFFUSIONAL PROPERTIES OF THE STAGE-3 DEFECT IN COPPER. PT. 2. A MODEL FOR DEFECT-DISLOCATION INTERACTIONS 67-11 M14-81081
BINDING ENERGIES AND ENTROPIES OF MULTIPLE VACANCIES IN FCC METALS 67-11 M16-81121
DISLOCATION PINNING IN NEUTRON-IRRADIATED OFHC AND 99.999 PER CENT COPPER 67-12 M16-82546

COPPER, CRYSTAL STRUCTURE
INVESTIGATION OF SURFACE REACTIONS BY LOW ENERGY ELECTRON DIFFRACTION --LEED-- 67-04 M14-67743
ELECTRON MICROSCOPIC OBSERVATION OF OXIDES FORMED ON THIN FILM OF COPPER AT ELEVATED TEMPERATURE 67-06 M14-71544
SUBSTRUCTURE OF COPPER VACUUM CONDENSATES AFTER AGING AND ANNEALING 67-09 M13-77772

COPPER, DEPOSITION

COPPER

SURFACE ROUGHNESS EFFECTS IN ELECTRODEPOSITION OF COPPER IN THE LIMITING CURRENT RANGE 67-03 M03-65424
ELECTRODEPOSITION OF COPPER-COBALT ALLOYS FROM THE PYROPHOSPHATE BATH 67-06 M12-70641
ELECTRODEPOSITION AT ROTATING CATHODES FROM ACIDIFIED COPPER SULPHATE SOLUTION 67-06 M12-70702

COPPER, DIFFUSION
SINTERING KINETICS AND DIFFUSION CREEP OF SOLIDS 67-01 M09-57347
SURFACE AND GRAIN-BOUNDARY DIFFUSION OF GOLD-COPPER 67-01 M14-57104
THE EFFECT OF ADSORBED SULFUR ON THE SURFACE SELF-DIFFUSION OF COPPER 67-01 M14-57423
EFFECT OF A DC FIELD ON THE LATTICE DIFFUSION OF SILVER-110 IN COPPER AND GOLD 67-01 M14-57575
STUDY OF COMPATIBILITY IN THE SYSTEMS ZIRCALOY-2/ALUMINUM, ZIRCALOY-2/COPPER AND ZIRCALOY-2/NICKEL 67-02 M14-58923
SURFACE DIFFUSION AND MOVEMENT OF BUBBLES OF INERT GASES IN COPPER 67-02 M14-58929
THE ELECTROCHEMICAL MEASUREMENT OF THE ACTIVITY AND DIFFUSION OF OXYGEN IN METALS WITH ZIRCONIUM DIOXIDE AS THE SOLID ELECTROLYTE 67-02 M14-60825
DIFFUSION OF COPPER IN IRON 67-02 M14-61077
STUDYING DIFFUSION OF MOLYBDENUM INTO COPPER BY MEASURING THERMOELECTROMOTIVE FORCE 67-02 M14-61559
MASS-TRANSFER FROM SOLID METAL CYLINDER INTO LIQUID METAL 67-02 M15-61852
STRESS-ENHANCED DIFFUSION IN COPPER-TELLURIUM COUPLES 67-03 M14-65088
ON THE MECHANISM OF LATTICE ELECTROMIGRATION IN METALS 67-03 M14-65227
ANISOTROPY OF DIFFUSION OF COPPER-64 IN BERYLLIUM 67-03 M15-65257
STRUCTURAL INVESTIGATION OF REACTION DIFFUSION IN THE COPPER-ZINC SYSTEM 67-04 M14-66486
DIFFUSIVITY AND SOLUBILITY LIMIT OF COPPER IN ALPHA AND GAMMA IRON 67-04 M14-67267
INTERSTITIAL SOLUTIONS OF NOBLE METALS IN METALS AND SEMICONDUCTORS 67-04 M14-67540
DIFFUSION OF COPPER IN GOLD 67-05 M15-69338
ISOTOPE EFFECT FOR THE DIFFUSION OF ZINC IN COPPER, AND ORDERED AND DISORDERED CUZN 67-06 M14-69909
INVESTIGATION OF THE DIFFUSION IN COPPER MICROWIRES 67-06 M14-70336
MEASUREMENT OF SURFACE DIFFUSION COEFFICIENTS BY COALESCENCE OF INERT GAS BUBBLES 67-06 M14-70424
THE IMPORTANCE OF LOW-ANGLE BOUNDARIES IN DIFFUSION 67-06 M14-71105
CALCULATION OF BOUNDARY DIFFUSION 67-07 M14-73487
CU DIFFUSION IN ELECTRODEPOSITED PERMALLOY FILMS 67-07 M14-73591
ON THE PRECIPITATION OF COPPER IN SILICON CRYSTALS OF DIFFERENT REAL STRUCTURE 67-07 M14-73895
INVESTIGATION OF THE KINETICS OF THE SOLUBILITY OF HYDROGEN IN FE, NI, CO AND CU 67-08 M14-75662
DISSOLUTION AND MOBILITY OF HYDROGEN IN COPPER. PT. 1. QUALITATIVE STUDY 67-08 M14-76212
DISSOLUTION KINETICS OF STEEL IN COPPER AND OF COPPER IN ALUMINUM UNDER WELDING CONDITIONS 67-09 M11-78116
REAL STRUCTURE AND REACTIVITY OF SILICON SINGLE CRYSTALS 67-09 M13-76775
THE DIFFUSION OF COPPER IN SILVER --RICH---COPPER ALLOYS 67-09 M14-77738
DIFFUSION OF XENON IN COPPER 67-09 M14-78263
THERMAL ETCHING OF COPPER SINGLE CRYSTALS 67-10 M13-78566
A CONTRIBUTION TO THE STUDY OF THE DIFFUSION OF S IN HIGH-PURITY CU 67-10 M14-79709
DIFFUSION OF ZINC IN COPPER CRYSTAL FILAMENTS 67-10 M14-79847
ELECTRICAL AND TRANSPORT PROPERTIES OF CU IN INAS 67-10 M15-79968
MEASUREMENT OF DIFFUSION OF GOLD IN COPPER BY ELASTIC SCATTERING OF DEUTERON 67-11 M14-80194
DIFFUSIONAL PROPERTIES OF THE STAGE-3 DEFECT IN COPPER. PT. 3. BULK DIFFUSION 67-11 M16-81082
THE ROLE OF SURFACE, VOLUME AND GRAIN BOUNDARY DIFFUSION IN SINTERING OF METALS 67-12 M09-82054
THE INFLUENCE OF CARBON ON PRECIPITATION OF COPPER IN SILICON SINGLE CRYSTALS 67-12 M14-82004
A NOTE ON NICKEL DIFFUSION IN COPPER 67-12 M14-82018
MEASUREMENT OF DIFFUSION OF GOLD IN COPPER BY ELASTIC SCATTERING OF DEUTERON 67-12 M14-82357
INVESTIGATION OF COPPER DIFFUSION IN BI2TE3 BY ETCHING TECHNIQUE 67-12 M14-82362

COPPER, DISSOLVING
DETERMINATION OF THE DISSOLUTION RATE OF MATERIALS IN LIQUID METALS 67-02 M14-60978
INVESTIGATION OF THE DISSOLUTION KINETICS OF METALS IN METALLIC MELTS BY THE ROTARY DISK METHOD --CU-PB SYSTEM-- 67-09 M14-76428

COPPER, ELECTRICAL PROPERTIES
FATIGUE AND ELECTRICAL RESISTIVITY OF COPPER ELECTRODEPOSITS DUE TO CYCLIC STRESS 67-01 M15-57297
STAGE 1 RECOVERY OF PURE SILVER AND THE CORRESPONDENCE WITH COPPER 67-01 M16-57957
THE ELECTRICAL RESISTANCE OF SILVER, COPPER, ALUMINUM, ZINC AND SODIUM BETWEEN 4 AND 298 K. DEPENDS ON THE IMPURITIES 67-02 M15-59906
ELECTRICAL AND THERMOELECTRICAL PROPERTIES OF COPPER THIN FILMS 67-02 M15-59920
CHANGE IN THERMOELECTROMOTIVE FORCE OF COPPER UNDER THE EFFECT OF PLASTIC TENSILE STRAIN AT VARIOUS RATES 67-02 M15-62090
THE CONTRIBUTION TO DIELECTRIC CONSTANT FROM INTERBAND TRANSITION IN METALS 67-02 M16-59061
THE EXIT POTENTIAL OF SPHERICAL CU SINGLE CRYSTALS WITH A VIRGIN SURFACE 67-03 M15-65439
MEASUREMENTS OF THE DECAY OF LUMINESCENCE OF ELECTROLUMINESCENT ZNS PHOSPHORS WITH DIFFERENT EXCITATION 67-03 M16-65440
ELECTRICAL PROPERTIES OF COPPER-ALUMINUM JOINTS MADE BY ARGON ARC WELDING 67-04 M15-66439
MEASURING THE ELECTRICAL CONDUCTIVITY OF GALVANIC DEPOSITS IN THE COURSE OF ELECTROLYSIS 67-05 M15-68738
DYNAMIC EFFECT OF PLASTIC DEFORMATION IN COPPER AND ITS ALLOYS 67-06 M15-70300
CALCULATION OF THE ELECTRICAL RESISTIVITY AND THE THERMOELECTRIC POWER OF VACANCIES IN COPPER AND GOLD 67-06 M15-70715
RESISTIVITY OF DEFORMED CRYSTALS 67-06 M15-71536
ABSORBED SPECIMEN CURRENT ANOMALY OF CU-ZN DIFFUSION COUPLE IN ELECTRON SCANNING MICROSCOPE 67-06 M15-71550
INFLUENCE OF PLASTIC DEFORMATION ON THE IDEAL ELECTRICAL AND THERMAL RESISTANCES OF COPPER AND ALUMINIUM 67-06 M15-72259
THE DEPENDENCE OF THE ELECTRICAL CONDUCTIVITY OF METALLIC WHISKERS ON THE DIAMETER 67-07 M15-72601
THE ELECTRICAL PROPERTIES OF TIG WELDED JOINTS BETWEEN COPPER AND ALUMINIUM 67-07 M15-72698
CALCULATION OF EFFECTIVE FORCES ON AN IMPURITY OF A METAL SUBJECTED TO A TEMPERATURE GRADIENT 67-07 M15-73632
DEFECTS IN THE CRYSTAL LATTICE OF COPPER, ROLLED AT LOW TEMPERATURES 67-08 M15-75283
RECOVERY OF THE ELECTRICAL RESISTIVITY OF PURE METALS AFTER SHORT IRRADIATION WITH NEUTRONS INSIDE A REACTOR 67-08 M15-75644
ANISOTROPY OF RELAXATION TIMES AND PHONON DRAG IN THE NOBLE METALS 67-09 M15-77158
THE CHANGE IN ELECTRICAL RESISTIVITY WITH PLASTIC DEFORMATION OF COPPER AT DIFFERENT STRAIN RATES 67-09 M15-77563
RADIATION DAMAGE IN THIN METAL FILMS AT 4.2 K 67-10 M15-79406

COPPER, ELECTRODEPOSITION
NEW PROCESS WITH AN ANCIENT METAL 67-01 M12-58528
STUDIES ON ELECTRODEPOSITION OF COPPER. PT. 1. FARADAIC IMPEDANCE IN THE VICINITY OF THE EQUILIBRIUM POTENTIAL 67-01 M12-58546
THROWING POWER OF CUSO4-5H2O-H2SO4-H2O 67-01 M12-58707
ON THE X-RAY INVESTIGATION OF INTERNAL STRESSES IN METALS ELECTROLYTICALLY DEPOSITED IN THE PRESENCE

OF INHIBITORS. PT. 2. ON LATTICE DEFORMATIONS OF THE SECOND AND THIRD KIND AND THE COMPARISON OF THEM WITH HARDNESS TESTS 67-01 M17-57291

COPPER, ELECTRODES
ELECTROCHEMICAL STUDIES ON COPPER ALLOYS IN STAGNANT AND MOVING 3 PER CENT NACL AQUEOUS SOLUTIONS CONTAINING HYDROGEN SULFIDE 67-01 M18-58334
THE POLARITY EFFECT IN SPARK EROSION 67-11 M08-80798

COPPER, ELECTROLYSIS
SOME FEATURES OF SLIME FORMATION DURING ELECTROLYTIC REFINEMENT OF CU AND NI 67-02 M03-60561
DIRECT ACID PRESSURE LEACHING OF CHALCOCITE CONCENTRATE 67-06 M03-72075
CATHODE FOR OBTAINING COPPER POWDER BY ELECTROLYSIS 67-09 M09-76871

COPPER, ELECTROPLATING
ELECTROLYTES FOR PLATING WITH CU-NI AND QUALITY OF THE ELECTROPLATES 67-04 M12-67287

COPPER, ELECTROREFINING
OPERATING AT ELEVATED CURRENT DENSITIES 67-06 M03-71344

COPPER, ETCHING
THE THERMAL ETCHING OF COPPER IN VACUO AT ELEVATED TEMPERATURES 67-03 M13-65691
THE THERMAL ETCHING FIGURES OF METAL MICROSECTIONS 67-05 M13-68250

COPPER, EXPLODING WIRES
X-RAY STUDY OF KINETICS OF HEATING AND EVAPORATION OF EXPLODING WIRES 67-01 M15-58600

COPPER, EXTRACTION
RECOVERING COPPER FROM CONVERTER SLAGS BY FLOTATION 67-01 M02-57268
CONE-TYPE PRECIPITATORS FOR IMPROVED COPPER RECOVERY 67-01 M03-57936
LEACHING OF COPPER AND ZINC FROM CONCENTRATES OF OXIDIZED AND MIXED COPPER-LEAD-ZINC ORES 67-01 M03-58066
DEVELOPMENTS IN THE PRODUCTION AND FABRICATION OF NON-FERROUS METALS 67-02 M01-61649
LABORATORY TESTS OF WOOD RESIN OIL USED FOR FLOTATION OF OXIDE AND MIXED LEAD-ZINC ORES AND MINERALS OF ENVELOPING ROCKS 67-02 M02-59639
COMMERCIAL TESTING OF A HYDRO-METALLURGICAL METHOD OF REPROCESSING COPPER-BISMUTH CONCENTRATES 67-02 M02-61604
DECOPPERIZATION OF NICKEL-CONTAINING CONVERTER SLAGS WHICH ARE BYPRODUCTS OF COPPER PRODUCTION 67-02 M03-59188
HYDROMETALLURGICAL PROCESSING OF INTERMEDIATE PRODUCTS OF BENEFICIATION OF UDOKAN COPPER ORES 67-02 M03-59541
SMELTING MIXED COPPER FEED IN CHILE 67-03 M03-65466
RATE OF SOLUBILITY OF CHRYSOCOLLA AND MALACHITE DURING AGITATIONAL SULFURIC ACID LEACHING 67-03 M03-65575
USE OF SPONGE IRON IN THE V-TROUGH PRECIPITATOR 67-04 M03-66892
FIRST COMMERCIAL-SCALE H2 REDUCTION PLANT FOR CU ON STREAM 67-04 M03-67496
DECOPPERING CHLORIDE NICKEL AND COBALT ELECTROLYTES BY MEANS OF ION EXCHANGE 67-04 M03-67524
DECOPPERING AND DELEADING CADMIUM SOLUTIONS 67-04 M03-67525
OBTAINING A COPPER-FREE CEMENT BISMUTH FROM COPPER CONCENTRATE 67-05 M03-69532
INVESTIGATION OF KINETICS OF JOINT PRECIPITATION OF AU, AG AND CU FROM CYANIDE SOLUTIONS 67-06 M03-71301
FRACTIONAL RE-EXTRACTION OF METALS FROM POLYMETALLIC SOAPS 67-06 M03-71350
SOLVENT EXTRACTION STUDY MAY PAVE WAY FOR PROCESSING BULK SULPHIDE CONCENTRATES 67-06 M03-71497
SEPARATION OF COPPER AND SULFUR FROM HIGH-FERROUS OXIDE MELTS 67-06 M03-72103
MATHEMATICAL MODELING OF THE PROCESSES AT COPPER SMELTING MILL 67-07 M03-73413
COMPLEX UTILIZATION OF COPPER-VANADIUM CAKES OBTAINED IN TITANIUM PRODUCTION 67-08 M03-75211
PRECIPITATION OF COPPER FROM DILUTE SOLUTIONS USING PARTICULATE IRON 67-08 M03-75311
COPPER PRECIPITATION METHODS AT WEED HEIGHTS 67-08 M03-75500
THE RECOVERY OF COBALT BY THE SOLUBLE COBALTIC AMMINE PROCESS 67-09 M03-76740
ON INTENSIFYING THE CEMENTATION OF METALS ON ZINC FROM SULFATE SOLUTIONS 67-09 M03-76889
ELECTROTHERMAL EXTRACTION OF COPPER, LEAD AND IRON FROM SLAG DUMP FROM THE ALAVERDI COPPER CHEMICAL COMBINE 67-09 M03-77039
CONTRIBUTION TO THE PRESSURE LEACHING OF COPPER SULFIDES 67-09 M03-77806
COPPER SMELTING AND REFINING FEATURED AT LONDON SYMPOSIUM 67-10 M03-78454
PROSPECTS FOR THE USE OF IRON CHLORIDE SOLUTIONS IN THE TREATMENT OF KAZAKHSTAN COPPER RAW MATERIAL 67-10 M03-79870
EVALUATION OF THE CONCENTRATION CHANGES NEAR THE ELECTRODES IN ELECTROLYSIS WITH NATURAL CONVECTION 67-10 M03-79945
REPROCESSING DEEP-SINTERED COPPER-ZINC MATERIALS IN REVERBERATORY FURNACES 67-10 M03-80049
METHOD FOR PROCESSING COPPER DROSS 67-11 M03-81224
GRAPHITE AS CATHODE MATERIAL FOR THE PRODUCTION OF HIGH-PURITY METALS 67-11 M03-81433
IMPROVED TECHNIQUES AND INCREASED LEAD RECOVERY IN PROCESSING LEAD-COPPER MATTE AND SPEISS IN THE G. DIMITROV WORKS 67-11 M03-81619
ON THE REACTION OF THE COMPONENTS OF BASIC REFRACTORIES WITH COPPER OXIDES DURING SERVICE IN A COPPER REFINING FURNACE 67-11 M03-81633
ELECTROWINNING OF COPPER POWDER FROM COPPER-MOLYBDENUM AMMONIA SOLUTIONS 67-12 M03-83404

COPPER, EXTRUSION
BASIS OF DIFFERENTIATED EXTRUSION 67-02 M07-59402
THE EXTRUSION OF COPPER AND ALLOYS FOR TUBE MANUFACTURE 67-02 M07-61652
DETERMINING THE HIGHEST DEGREE OF DEFORMATION DURING REDUCTION OF HOLLOW CYLINDRICAL BILLETS IN A TAPERED DIE 67-04 M08-67040
THE HIGH-SPEED EXTRUSION OF SOME COMMON METALS 67-05 M08-68719
HIGH SPEED IMPACT EXTRUSION OF METALS 67-07 M07-74090
HOT EXTRUSION OF METAL POWDERS 67-09 M09-77056

COPPER, EXTRUSION BILLETS
ECONOMICAL PRODUCTION OF COPPER TUBE 67-10 M03-79494

COPPER, FERMI SURFACE
FERMI SURFACE OF COPPER 67-02 M16-60769

COPPER, FERRITES
X-RAY DIFFRACTION STUDY OF CERTAIN MIXED FERRITES 67-02 M13-61666

COPPER, FIBER METALLURGY
A THEORY OF FIBER STRENGTHENING 67-02 M17-60630
MICROSTRAIN BEHAVIOR OF METAL MATRIX COMPOSITES 67-11 M17-81129

COPPER, FLUID MECHANICS
INVESTIGATION OF THE HYDROMECHANICAL EFFECT OF THE IMPACT OF DROPS 67-09 M18-77351

COPPER, FORGING
CHARACTERISTICS OF THE PROCESS OF UPSETTING UNDER PULSATING LOADS 67-04 M07-67043
EVALUATING THE EFFECTIVENESS OF LUBRICATION IN UPSETTING ON MECHANICAL PRESSES 67-04 M08-67041
DISTRIBUTION OF DEFORMATION ALONG THE HEIGHT OF THE TESTPIECE WHEN UPSETTING IT UNDER ULTRASONIC VIBRATIONS 67-06 M08-70116

COPPER, FORMING
SOME APPLICATIONS OF ELECTROFORMING 67-02 M08-61563
A SURVEY OF H. E. R. FORMING 67-05 M08-69736
ELECTROHYDRAULIC FORMING 67-05 M08-69738
COMPARATIVE TEXTURES OF SLOWLY AND EXPLOSIVELY LOADED METALS 67-05 M13-69745
MATERIAL ASPECTS OF HIGH ENERGY RATE DEFORMATION AT AMBIENT AND ELEVATED TEMPERATURES 67-05 M17-69743
SINGULARITIES OF THE MECHANISM OF THE HIGH-SPEED DEFORMATION OF COPPER 67-06 M13-72356
FORMING, DRAWING AND BLANKING PRODUCTION UNDER HIGH PRESSURE 67-07 M08-73220

COPPER, GRAIN BOUNDARIES
GRAIN BOUNDARY RELAXATION IN FOUR HIGH-PURITY FCC METALS 67-06 M13-71607

COPPER, GRAIN STRUCTURE
THE DRAGGING OF SOLID PARTICLES THROUGH METALS BY GRAIN BOUNDARIES 67-06 M14-70440

COPPER, HARDENING
STUDY OF THE STRUCTURAL AND MECHANICAL CHARACTERISTICS OF COPPER AFTER AUSFORMING 67-02 M17-58897
SOME NOTES ON THE STRENGTHENING MECHANISM IN NEUTRON IRRADIATED COPPER SINGLE CRYSTALS 67-02 M17-61504
ON THE STRENGTHENING MECHANISM IN NEUTRON IRRADIATED COPPER SINGLE CRYSTALS. PT. 1. ON EXPERIMENTS CONCERNING STRAIN RATE CHANGES 67-02 M17-61505
ON THE STRENGTHENING MECHANISM IN NEUTRON IRRADIATED COPPER SINGLE CRYSTALS. PT. 2. ANALYSIS OF THE THERMALLY ACTIVATED PROCESSES 67-02 M17-61506
STRAIN HARDENING OF COPPER AT IMPULSE LOADING 67-03 M17-65590
SUBSTITUTIONAL SOLUTION HARDENING OF COPPER 67-04 M14-66073

COPPER, HEAT TREATMENT
HIGH VACUUM ANNEALING 67-01 M10-58527
AN APPARATUS FOR THE INDUCTION ANNEALING OF COPPER WIRE 67-04 M10-66101
HIGH SPEED STRAND ANNEALING OF COPPER WIRE 67-04 M10-66711
INFLUENCE OF ULTRASONIC VIBRATIONS ON COOLING EFFICIENCY OF QUENCHING MEDIUM 67-06 M10-70057
EFFECT OF ULTRASONIC VIBRATIONS ON THE COOLING CAPACITY OF THE QUENCHING MEDIUM 67-10 M10-78803

COPPER, HYDROGENATION
ABSORPTION ENERGY OF HYDROGEN IN METAL 67-08 M14-74647

COPPER, INTERMETALLICS
THERMOELECTRIC POWER AND ELECTRICAL RESISTIVITY OF CU3AU DOPED WITH 3D TRANSITION METALS 67-01 M15-57476
THE PARTIAL STRUCTURE FACTORS OF LIQUID CU-SN 67-02 M13-60808
ANOMALOUS CONTRAST FROM AN ANTI-PHASE DOMAIN BOUNDARY IN BETA-BRASS 67-02 M13-60815
MONTE CARLO STUDIES OF VACANCY MIGRATION IN BINARY ORDERED ALLOYS 67-02 M14-60595
IRRADIATION OF HEUSLER ALLOYS 67-02 M16-61116
SOME CROSS-SUBSTITUTIONAL ALLOYS OF CDTE 67-02 M16-61765
ON SOME PARTICULARITIES OF THE CHANGE IN THE ELECTRICAL RESISTIVITY OF COPPER-GOLD ALLOYS NEAR THE CUAU COMPOSITION 67-04 M15-67050
DISLOCATION IN THE DIRECTION --110-- AND HARDENING OF ALLOY WITH LI2 STRUCTURE 67-05 M13-69470
THE ORDER-DISORDER TRANSFORMATION IN CU3AU AT HIGH PRESSURE 67-05 M14-69210
THE ELASTIC CONSTANTS OF MGAG AND MGCU2 SINGLE CRYSTALS 67-05 M17-69575
STRUCTURE OF THE TWO NEW INTERMETALLIC PHASES-- SRCU5 AND BAPD5 67-06 M13-70120
CU-NMR IN PARAMAGNETIC AND FERROMAGNETIC CUCR2SE4 67-07 M15-73297
EXPERIMENTAL STUDIES ON DYNAMIC MULTIPLE REFLECTIONS OBSERVED IN THIN FILMS OF METALS AND ALLOYS BY ELECTRON DIFFRACTION 67-08 M13-74414
LOCAL ORDER IN SOLID ALLOYS. PT. 1 67-08 M13-75338
LONG-RANGE ORDER IN SOLID ALLOYS. PT. 2 67-08 M14-75339
ELECTRICAL RESISTIVITY OF SMAG, SMCU AND SMAU 67-09 M15-77455
X-RAY STUDY OF PROTON-INDUCED DISORDER IN CU3AU 67-10 M14-79159
PREPARATION OF CU2SE SINGLE CRYSTALS AND INVESTIGATION OF THEIR ELECTRICAL PROPERTIES 67-10 M15-79004
APPLICATION OF A THEORY OF PHASE FLUCTUATIONS INSPIRED BY THE BARTENEV THEORY TO THE CRITICAL TRANSFORMATION AUCU3 1 TO AUCU3 ALPHA 67-11 M14-81564
INTERNAL MAGNETIC FIELDS AT SN119 NUCLEI IN HEUSLER ALLOYS 67-11 M15-80783
STRUCTURE OF THE BAND SPECTRUM OF THE CUBR MOLECULE. PT. 1. ROTATIONAL STRUCTURE OF THE C SYSTEM FO CU63BR81 67-11 M16-80332
ELECTRON ENERGY LEVELS IN CU3AU 67-11 M16-81483
EFFECT OF HYDROSTATIC EXTRUSION ON THE MECHANICAL PROPERTIES OF CUZN AND TINI 67-11 M17-81529

COPPER, INTERNAL FRICTION
EFFECT OF SIZE, IMPURITY AND DEFORMATION ON THE INTERNAL FRICTION AND STRENGTH PROPERTIES OF WHISKERS 67-06 M17-70338

COPPER, IRRADIATION
EXCITATION FUNCTIONS AND ANGULAR DISTRIBUTIONS OF MULTINUKLEON TRANSFER REACTIONS IN THE INTERACTION BETWEEN COMPLEX NUCLEI 67-10 M16-80004
INELASTIC ENERGY LOSSES IN COLLISIONS OF 40-90 KEV A PLUS IONS WITH SOLID AND GASEOUS CU TARGETS 67-11 M16-80935
LOW FREQUENCY INTERNAL FRICTION IN ELECTRON IRRADIATED COPPER 67-11 M16-81595
THIRD-ORDER ELASTIC CONSTANTS OF COPPER AT LOW TEMPERATURE 67-12 M16-82530
THE EFFECT OF NEUTRON IRRADIATION ON THE ROLLING TEXTURE OF COPPER 67-12 M16-82872

COPPER, LAMINATING
A LAMINATING RESIN IS USEFUL TO WIRE AND CABLE PRODUCERS 67-07 M11-73846

COPPER, LIQUID METALS
DEOXIDATION OF LIQUID COPPER BY A SUBMERGED GAS JET 67-12 M03-82746

COPPER, MACHINING
DIAMOND TOOLS SHAPE TWO-MILE TUBE 67-02 M08-61003
A TWO-MILE COPPER TUBE FOR THE WORLDS LARGEST LINEAR ELECTRON ACCELERATOR 67-03 M20-65498
WEAR AND LIFE OF TOOL FOR ROLLING INTERNAL THREADS 67-07 M08-74291
THE APPLICABILITY OF THE BINOMIAL LAW TO THE PROCESS OF FRICTION IN THE CUTTING OF METALS 67-10 M08-79108
PLASMA-ARC CUTTING OF METALS USING MIXED GAS 67-12 M08-83180

COPPER, MAGNETIC PROPERTIES
MEAN SQUARE DISPLACEMENT OF IRON IMPURITY ATOMS IN COPPER 67-01 M15-57967
A MAGNETIC SUSCEPTIBILITY APPARATUS FOR WEAKLY MAGNETIC METALS, AND THE SUSCEPTIBILITY OF PURE COPPER IN THE RANGE 6-300 K 67-03 M15-65737
THE MAGNETIC SUSCEPTIBILITY OF PURE AND IMPURE COPPER METAL 67-07 M15-73085
MAGNETIZATION RIPPLE IN MULTILAYER FILMS 67-07 M15-73579
MEASURING THE MAGNETIC ANISOTROPY OF SINGLE CRYSTALS IN TRANSVERSE VOLTAGE FIELDS 67-10 M15-79016

COPPER, MATTES
AN INVESTIGATION OF RESIDUAL SOLIDIFIED CRUST FORMING ON REVERBATORY FURNACE HEARTHS 67-12 M02-83090

COPPER, MECHANICAL PROPERTIES
THE FAILURE OF COPPER-TUNGSTEN FIBER COMPOSITES IN REPEATED TENSION 67-01 M17-57222
SUBSTRUCTURAL STRENGTHENING IN MATERIALS SUBJECT TO LARGE PLASTIC STRAINS 67-01 M17-57407
DYNAMIC DEFORMATION OF METALS UNDER HIGH HYDROSTATIC PRESSURE 67-01 M17-57543
X-RAY INVESTIGATION ON FATIGUE OF POLYCRYSTALLINE METALS--THE RELATION BETWEEN CRYSTAL ORIENTATION AND DEFORMATION IN FCC CRYSTAL 67-01 M17-57586
INVESTIGATION OF THE EFFECT OF ELECTRIC DISCHARGE MACHINING ON THE PROPERTIES AND STRUCTURE OF METALS 67-01 M17-58041
PRESS FORMABILITY OF 2S ALUMINUM AND PURE COPPER 67-01 M17-58331
INFLUENCE OF ULTRASONIC VIBRATION ON METALLIC FRICTION 67-01 M17-58560
TO THE RELATION BETWEEN STRAIN RATE AND DEFORMATION RATE OF COPPER SINGLE CRYSTALS IN STAGE 3 67-01 M17-58633
THE SOLID STATE--REHBINDER EFFECT IN LUBRICATED METAL CURRING 67-02 M08-60882
PORE FORMATION DURING CREEP 67-02 M14-62087
PROPAGATION OF A CRACK FILLED WITH LIQUID METAL 67-02 M17-59434
THE RELATION BETWEEN THE STRENGTH AND THE CONDITIONS OF PREPARING CU AND AL VACUUM CONDENSATES 67-02 M17-59556
RELATION BETWEEN THE CRITICAL RUPTURE STRESSES AND THE FRACTURE TIME DURING EXPLOSIVE LOADING OF METALS 67-02 M17-59668
THE FREEZE-CRACKING RESISTANCE OF DISTRIBUTING PIPES 67-02 M17-59721
INVESTIGATION OF AMPLITUDE DEPENDENCY AND THERMAL RECOVERY OF WORK HARDENING CAUSED BY ULTRASONIC

TREATMENTS 67-02 M17-59912
SOME WORK WITH A MICROSTRAIN APPARATUS 67-02 M17-59913
ELASTIC-PLASTIC PROPERTIES OF A SERIES OF METALS DURING EXPLOSIVE LOADING 67-02 M17-59937
CONTRIBUTION TO THE PLASTICITY CF COPPER WHISKERS 67-02 M17-60124
TEMPERATURE DEPENDENCE OF HIGH-TEMPERATURE VACUUM TENSILE-FATIGUE LIFE AND DEFORMATION IN COPPER 67-02 M17-60145
USE OF ULTRASOUND IN TENSILE TESTING OF METALS 67-02 M17-60666
CREEP OF METALS BY THE COMBINED STATE OF STRESS 67-02 M17-60801
THE MACHINABILITY OF ALUMINUM IN COMPARISON WITH OTHER METALS 67-02 M17-61027
STRUCTURAL CHANGES IN METALS DURING ALTERNATING PLASTIC DEFORMATION 67-02 M17-61675
CHANGES IN PROPERTIES OF POLYCRYSTALLINE COPPER DURING MULTIPLE RECRYSTALLIZATION 67-02 M17-61728
LIMITING ELASTIC STRESSES IN COPPER 67-02 M17-61818
THE STRESS AND STRAIN DISTRIBUTION AT THE NECK OF A TENSILE SPECIMEN 67-03 M17-65197
CREEP EXPERIMENTS ON HIGH-PURITY COPPER SINGLE CRYSTALS 67-03 M17-65226
THE CRITICAL SHEAR STRESS OF CUBIC CRYSTALS WITH DEFECT TETRAGONAL SYMMETRY 67-03 M17-65382
A MECHANISM FOR LOWERING THE CREEP STRENGTH OF METAL IN A SURFACE-ACTIVE LIQUID-METALLIC MEDIUM 67-03 M17-65799
BACKGROUND INTERNAL FRICTION OF SOME PURE METALS AT LOW FREQUENCIES 67-03 M17-65881
VARIABLE STRESS CREEP IN COPPER 67-04 M17-66065
USE OF ANELASTICITY IN INVESTIGATING RADIATION DAMAGE AND THE DIFFUSION OF POINT DEFECTS 67-04 M17-66228
ACTIVATION ENERGY OF THE TEMPERATURE BACKGROUND OF INTERNAL FRICTION 67-04 M17-66497
VARIOUS CONCEPTS OF MICROCRACKS 67-04 M17-66896
THE EFFECT OF STRUCTURE AND ANNEALING TEMPERATURE ON THE HYDROGEN EMBRITTLEMENT OF CU 67-04 M17-67076
THE PENETRATION OF BI INTO THE GRAIN BOUNDARIES OF CU 67-04 M17-67079
THE DEEP DRAWING BEHAVIOR OF SEMIHARD CU AND ALPHA BRASS 67-04 M17-67082
DEFORMATION RESISTANCE OF CERTAIN DUCTILE METALS IN DEFORMATION AT A HIGH RATE 67-04 M17-67155
THE MECHANISM OF RADIATION-HARDENING OF FCC METALS BY FAST NEUTRONS 67-04 M17-67313
CONCENTRATION DEPENDENCE OF THE STRENGTH OF CU-AL SOLID SOLUTIONS 67-04 M17-67644
FATIGUE STRENGTH CRITERIA OF METALS AND ALLOYS BASED ON ENERGY DISSIPATION 67-04 M17-67819
THE HIGH TEMPERATURE FLOW STRESS OF SINGLE CRYSTALS OF COPPER, SILVER AND GOLD. PT. 1 67-05 M17-68292
PLASTIC DEFORMATION OF THIN COPPER SINGLE CRYSTALS. PT. 1. THE SEPARATE ROLES OF EDGE AND SCREW DISLOCATIONS IN STAGE 1 OF WORK HARDENING 67-05 M17-68296
WEAR AND FRICTION OF THE PLATINUM METALS. PERFORMANCE IN SLIDING CONTACTS 67-05 M17-69282
AN INVESTIGATION INTO THE INFLUENCE OF EDGE SHAPE ON CRACKING DURING ROLLING 67-05 M17-69560
ON THE STRUCTURE AND MECHANICAL PROPERTIES OF COPPER, ROLLED AT LOW TEMPERATURES 67-05 M17-69657
NUCLEATION OF FRACTURE 67-05 M17-69727
ANOMALOUS TRANSMISSION IN STRAINED DUCTILE AND BRITTLE CRYSTALS BY THE DIVERGENT X-RAY BEAM METHOD 67-06 M14-71283
NEUTRON IRRADIATION AND THE YIELD SURFACES OF COPPER 67-06 M16-71716
EFFECT OF GRAIN SIZE AND ANNEALING TREATMENT ON STEADY-STATE CREEP OF COPPER 67-06 M17-69931
FATIGUE FRACTURE IN COPPER AND THE CU-8WT. PER CENT AL ALLOY AT LOW TEMPERATURE 67-06 M17-69947
HIGH-TEMPERATURE CREEP IN NICKEL, COPPER AND THEIR ALLOYS 67-06 M17-69981
ESTABLISHING THE RELATIONSHIP BETWEEN THE TRUE STRAIN AND THE NECKING OF TENSILE TEST SPECIMENS 67-06 M17-70262
MICROSTRAIN REGION AND TRANSITION TO MACROSTRAIN IN 99.9 PER CENT POLYCRYSTALLINE COPPER 67-06 M17-70981
STRESS STRAIN RELATIONSHIP IN COMPRESSION TESTING OF PURE METALS AND DUCTILE ALLOYS 67-06 M17-71114
LATTICE STRAIN MEASUREMENTS ON DEFORMED FCC METALS 67-06 M17-71425
FATIGUE IN COPPER SINGLE CRYSTALS AND A NEW MODEL OF FATIGUE IN FACE-CENTERED CUBIC METALS 67-06 M17-71518
FATIGUE-CRACK GROWTH IN SOME COPPER-BASE ALLOYS 67-06 M17-71604
ON THE CALCULATION OF POLYCRYSTALLINE ELASTICITY CONSTANTS FROM SINGLE CRYSTAL DATA 67-06 M17-71669
TRANSIENT ELASTIC WAVES IN ANISOTROPIC PLATES 67-06 M17-71714
THE COMPACTION OF METAL POWDERS BY ROLLING 67-07 M09-73866
ELASTOPLASTIC PROPERTIES OF A NUMBER OF METALS EXPOSED TO EXPLOSIVE SHOCK LOADING 67-07 M17-72592
FORMATION OF FATIGUE STRIATIONS IN FCC METALS 67-07 M17-72660
LOW-TEMPERATURE TENSION TESTS OF COPPER IN AN ULTRASONIC FIELD 67-07 M17-72786
EFFECT OF INITIAL DISLOCATION DENSITY ON THE STRESS-STRAIN CURVE AND ON SURFACE INDICATION OF SLIP IN COPPER 67-07 M17-73059
LATENT HARDENING AND THE FLOW STRESS IN COPPER SINGLE CRYSTALS 67-07 M17-73067
THE PLASTIC DEFORMATION OF THIN COPPER SINGLE CRYSTALS. PT. 2. AN ELECTRON MICROSCOPE STUDY OF THE SURFACE STRUCTURE 67-07 M17-73070
USING ULTRASOUND TO TEST METALS UNDER TENSION 67-07 M17-73102
THE DISTRIBUTION OF RESIDUAL STRESSES OF DEFORMED FACE CENTERED CUBIC METALS 67-07 M17-73850
STRESS RELAXATION IN NEUTRON IRRADIATED COPPER SINGLE CRYSTALS 67-07 M17-73901
YIELD AND SECOND-ORDER EFFECTS INDUCED BY CYCLIC STRAIN IN COPPER UNDER TENSION 67-07 M17-73918
THE INFLUENCE OF VARIOUS PHYSICAL PROPERTIES OF METALS ON THEIR FRICTION AND WEAR BEHAVIOR IN VACUUM 67-07 M17-74054
DYNAMIC INDENTATION OF COPPER AND AN ALUMINIUM ALLOY WITH A CONICAL PROJECTILE AT ELEVATED TEMPERATURES 67-07 M17-74089
EFFECT OF DEFORMATION CONDITIONS DURING ROLLING COPPER ON THE VALUE AND CHARACTER OF DISTRIBUTION OF STRESSES OF SECOND ORDER 67-08 M07-75009
EFFECT OF ALTERNATE BENDS ON COPPER WHISKERS 67-08 M14-76228
COMPRESSIVE DEFORMATION AFFECTED BY SUPERIMPOSED ULTRASONIC VIBRATION 67-08 M17-74411
DEFORMATION OF THE ROTOR WINDING OF A TURBO ALTERNATOR. AN EXTREME EXAMPLE OF COPPER SHORTENING 67-08 M17-74501
BRITTLENESS IN COPPER AND COPPER ALLOYS WITH PARTICULAR REFERENCE TO HYDROGEN EMBRITTLEMENT 67-08 M17-74505
EFFECT OF PROGRAMMED LOADING ON FLOW STRESS OF METALS DURING CYCLICAL STRAINING 67-08 M17-74643
FUNDAMENTAL INVESTIGATION OF THE SLIDING FRICTION OF METALS WITH RADIOACTIVE TRACERS 67-08 M17-74921
A SPECIAL FEATURE OF METAL FLOW IN COOLING MEDIA CONSISTING OF LIQUIDS AND AIR 67-08 M17-75010
THE VALIDITY OF THE ASSUMPTION OF PLANE STRAIN CONDITIONS IN PLASTIC DEFORMATION PROCESSES AND YIELD POINT PHENOMENA IN METALS AND ALLOYS 67-08 M17-75576
FAULTS IN DESIGN REVEALED BY SERVICE FAILURES. PT. 1 67-08 M17-75614
THE EFFECT OF PRELIMINARY CYCLICAL HEAT TREATMENT ON FATIGUE 67-08 M17-75887
CYCLIC STRAIN-SOFTENING EFFECTS IN METALS 67-08 M17-75970
PROPERTIES AND APPLICATIONS OF DISPERSION-STRENGTHENED METALS 67-09 M10-76723
THE MACROMECHANISM OF FATIGUE WHEN A CONSTANT COMPONENT IS SUPERIMPOSED ON AN ALTERNATING DEFORMATION 67-09 M17-76560
RECOVERY OF THE ELASTIC MODULUS AND THE INTERNAL FRICTION OF COMMERCIAL COPPER AFTER PLASTIC

DEFORMATION 67-09 M17-76675
THE STRESS-RUPTURE CHARACTERISTICS OF COPPER AND ALLOYS CONTAINING BORON AND HELIUM 67-09 M17-77464
THE ENERGY STORED IN COPPER SINGLE CRYSTALS 67-09 M17-77590
THE IRREVERSIBLE AMPLITUDE DEPENDENCE OF PLASTICALLY DEFORMED POLYCRYSTALLINE CU 67-09 M17-77746
ON THE INFLUENCE OF QUASI-ELASTIC DEFORMATIONS ON THE MODULUS DEFECT OF COLD WORKED CU 67-09 M17-77747
HIGH TEMPERATURE RELAXATION PEAKS IN COPPER AND ALUMINIUM 67-09 M17-77921
EXPERIMENTAL EVALUATION OF MATERIAL BEHAVIOR IN A WIRE UNDER TRANSVERSE IMPACT 67-09 M17-78102
THE RECRYSTALLIZATION KINETICS OF DRAWN COPPER AND ALPHA-BRASS BARS DURING THE ISOTHERMAL DETERMINATION OF ELASTIC MODULI AT HIGH TEMPERATURES 67-09 M17-78180
RECOVERY OF PLASTICALLY DEFORMED FILAMENTARY CRYSTALS OF COPPER 67-10 M14-79472
RESEARCH INTO THE ELONGATION OF COPPER AT HIGH TEMPERATURES IN AN ULTRASONIC FIELD 67-10 M17-78948
BEHAVIOR OF MATERIALS FOR CHEMICAL APPARATUS AT HIGHER TEMPERATURES 67-10 M17-79095
STUDY OF CERTAIN RADIATION DEFECTS IN METALS BY MEASURING INTERNAL FRICTION AND ELASTIC MODULUS 67-10 M17-79903
HIGH-ENERGY RATE FORMING OF DIE CAVITIES 67-11 M08-80566
RECRYSTALLIZATION AND MECHANICAL PROPERTIES OF COPPER, TENSILE STRAINED AT LOW TEMPERATURES 67-11 M14-80734
ULTRASONIC WORK HARDENING OF FACE CENTERED CUBIC METALS AND ALLOYS 67-11 M17-80379
CREEP APPARATUS FOR MEASUREMENTS AT LOW TEMPERATURES 67-11 M17-80383
HIGHER ORDER ELASTIC CONSTANTS AND THE EQUATION OF STATE OF FCC METALS 67-11 M17-80612
DEFORMATION OF COPPER SINGLE CRYSTALS AND POLYCRYSTALS AT HIGH STRAIN RATES 67-11 M17-80944
INTERNAL FRICTION IN FCC METALS DURING ELONGATION 67-11 M17-81048
STUDIES ON THE SUBSTRUCTURE DEVELOPED AROUND FATIGUE CRACKS 67-11 M17-81065
ELECTRON MICROSCOPIC STUDY OF SUBSTRUCTURE DEVELOPED AROUND FATIGUE CRACKS 67-11 M17-81066
TECHNIQUE FOR THE DETERMINATION OF DYNAMIC-TENSILE-STRENGTH CHARACTERISTICS 67-11 M17-81091
VISCOUS ULTRASONIC ATTENUATION IN METALS 67-11 M17-81092
FRACTURE BY MICROSCOPIC PLASTIC DEFORMATION PROCESSES 67-11 M17-81100
IMPROVEMENT OF FATIGUE LIFE BY DISPERSAL OF CYCLIC STRAIN 67-11 M17-81528
EFFECT OF MAGNETIC IMPULSE DEFORMATION ON THE MECHANICAL PROPERTIES OF NICKEL, IRON AND COPPER 67-11 M17-81662
INFLUENCE OF DEFORMATION ON GRAIN BOUNDARY ATTACK AND THE INITIAL GRAIN BOUNDARY MIGRATION TEMPERATURE 67-12 M13-83496
ON THE STRUCTURE AND MECHANICAL PROPERTIES OF COPPER ROLLED AT 4.2 TO 300 K 67-12 M17-82341
RESIDUAL DEFORMATION AND HARDENING DURING EXPLOSIVE TREATMENT OF METALS 67-12 M17-82348
ELASTIC DEFORMATION OF LATTICE UNDER CREEP CONDITIONS 67-12 M17-82350
THE COFFIN-MANSON LAW IN RELATION TO SLIP CHARACTER 67-12 M17-82735
RESEARCH ON THE APPEARANCE AND DEVELOPMENT OF EXTRUSIONS AND INTRUSIONS IN IRON AND COPPER 67-12 M17-83514
INFLUENCE OF A CONSTANT STRESS ON THE MECHANICAL CHARACTERISTICS OF DRAWN BARS 67-12 M17-83515

COPPER, MECHANICAL TESTS
A METHOD FOR INTERRUPTING A HIGH STRAIN RATE TENSION TEST BEFORE SPECIMEN FRACTURE 67-01 M17-58770
A NEW HARDNESS NUMBER FOR THE BALL TEST OF NONFERROUS METALS AND ALLOYS 67-02 M17-58896

COPPER, MELTING
ON THE USE OF OXYGEN IN CONVERTERS AT THE ALAVER COMBINE 67-01 M03-57270
EFFECT OF VACUUM REMELTING ON THE GAS CONTENT OF COPPER 67-04 M03-66981
MELTING GRANULATED HIGH-SILICON COPPER CONCENTRATE IN A CONVERTER WITH OXYGEN-ENRICHED BLAST 67-05 M03-69529
HEAT WORK OF A REVERBERATORY FURNACE USING PREHEATED AIR BLAST 67-05 M03-69530
A NEW LARGE-SCALE INSTALLATION FOR THE MELTING AND CASTING OF OFHC COPPER IN A YUGOSLAV COPPER MILL 67-05 M06-69310
MELTING COPPER IN A HURRY 67-06 M03-71671
INDUCTION MELTING IN THE FOUNDRY 67-06 M06-71598
REDUCTION OF OXIDIZED ANODE COPPER WITH NATURAL GAS 67-10 M03-80051
RAMMED HIGH-ALUMINA MASSES FOR INDUCTION COPPER-SMELTING FURNACES 67-12 M03-82639

COPPER, METAL FOILS
ELECTROCHEMICAL MANUFACTURING OF COPPER FOIL 67-02 M03-59199
TEMPERATURE DEPENDENCE OF DYNAMICAL ELECTRON DIFFRACTION INTENSITIES OF POLYCRYSTALLINE FOILS 67-02 M13-61825

COPPER, METAL POWDERS
VIBRATION PACKING OF SPHERICAL POWDERS 67-02 M09-62123
THE DETERMINATION OF RETAINED AUSTENITE BY X-RAY DIFFRACTION 67-04 M19-66294
INVESTIGATION OF THE PROPERTIES OF MATERIALS OF COPPER POWDER, PRODUCED BY CEMENTATION FROM CHLORIDE SOLUTIONS 67-08 M09-74308

COPPER, METAL WORKING
THE USE OF EXPLOSIVE ENERGY IN THE DEFORMATION AND WELDING OF METALS 67-01 M07-57990
DEEP DRAWING OF COPPER AND COPPER ALLOYS 67-01 M07-58676
DISCUSSION OF THE STRETCH-FORMABILITY 67-01 M08-58246
METAL FLOW IN DEEP DRAWING OF CUBE-TEXTURED COPPER 67-01 M17-58332
QUALITY CONSIDERATIONS IN THE MANUFACTURE OF WROUGHT NON-FERROUS --COPPER AND COPPER ALLOY-- PRODUCTS 67-01 M19-58789
COPPER WIRE. PT. 5. DRAWING DIES 67-02 M07-59828
WHEN YOU NEED 3 3/4 MILE LENGTHS OF TUBING, CHASE BRASS IS READY 67-02 M07-60624
HERF SHEARS EDGES CLEAN 67-02 M07-61006
A SIMPLE SUB-PRESS FOR REVERSE COLD EXTRUSION OF METALS 67-02 M08-60228
COPPER TUBE TAKES ONE-PRODUCT ROUTE 67-03 M07-65433
THIN BOOSTER WALLS YIELD PAYLOAD HIKE 67-03 M08-65116
A CRITICAL LOOK AT ULTRASONIC METALWORKING PROCESSES 67-03 M08-65620
INVESTIGATION OF SPECIFIC PRESSURE AND FRICTION IN PLASTIC COMPRESSION OF METAL 67-03 M17-65963
THE DRAWING OF COPPER WIRE. PT. 1 67-04 M07-66635
APPLICABILITY TO OTHER METALS OF DRAWABILITY TESTS WITH STEELS 67-04 M08-66398
THE DEFORMATION OF SHEET METAL THROUGH UNDERWATER SPARK DISCHARGES 67-04 M08-67060
EXTRUDING DOWN PLUS FORGING UP GIVES HIGH HEAD-TO-SHANK RATIOS 67-05 M07-68303
IMPROVED PROCESS FOR DRAWING, CLEANING AND PRECISION WINDING OF COAXIAL CENTERWIRE 67-05 M07-68672
AUTOMATION TURNS TUBING TO CORES 67-05 M08-68482
BENDING WITHOUT MANDRELS 67-06 M08-71403
THE MANUFACTURE OF STRIP CONDUCTORS FOR POWER TRANSFORMERS 67-06 M20-71561
MAGNETISM TAMED FOR FORMING 67-07 M07-73693
SOME CURRENT DEVELOPMENTS IN ELECTROFORMING 67-07 M12-73372
DRAWING COPPER WIRE WITH A LUBRICANT UNDER EXTERNALLY GENERATED PRESSURE 67-08 M07-75140
THE EFFECTS OF TEMPERATURE, SPEED AND STRAIN-RATE ON THE FORCE AND ENERGY REQUIRED IN BLANKING 67-08 M08-76048
EFFECT OF HIGH-ENERGY-RATE DEFORMATION ON THE STRENGTHENING OF COPPER 67-09 M08-77132
TENSION DURING PLASTIC STRAINING WITH CROSSWISE DEFORMATION 67-10 M07-78430
REMOVAL OF ABRADED PARTICLES IN THE WET DRAWING OF COPPER 67-10 M08-78572

AN ASSESSMENT OF ELECTROFORMING
67-10 M12-79438
A FURTHER INVESTIGATION OF THE ERICHSEN TEST
67-10 M17-78502
MECHANICAL FORMING REPLACES ELECTROFORMING
67-11 M07-80676
DEEP DRAWING WITH ULTRAHIGH PRESSURE
67-11 M08-80518
TENSION AND DEFORMATION WORK WITH DEVELOPING TRANSVERSE DEFORMATION 67-12 M07-83428
FUNDAMENTAL STUDIES ON LAPPING 67-12 M12-83597
METALLURGICAL PRINCIPLES OF HOT WORKING
67-12 M17-82043
THE MECHANISM OF FORMING IN BENDING
67-12 M17-82776

COPPER, METALLOGRAPHY
ETCH PITTING ON DISLOCATIONS IN COPPER SINGLE CRYSTALS BY POTENTIOSTATIC ELECTROLYSIS
67-02 M13-60117
ETCHING OF COPPER AND ITS ALLOYS
67-03 M13-65041
LOW-ENERGY ELECTRON DIFFRACTION OF SPHERICAL COPPER SINGLE CRYSTALS 67-05 M13-68338
A METALLOGRAPHIC METHOD FOR THE DETERMINATION OF THE SPECIFIC AREA OF POWDER MATERIALS
67-05 M13-69608
DEFORMATION OF COPPER CRYSTALS DURING CUTTING BY STANDARD METHODS 67-06 M13-71621
MICROGRAPHIC PRACTICE 67-10 M13-78855
DARK AND LIGHT PITS ON --111-- SURFACE OF COPPER
67-12 M13-82672

COPPER, MICROSTRUCTURE
TEXTURES AS CAUSES OF EARING 67-01 M08-57286
THE EFFECT OF SMALL DEFORMATION ON THE STATIC DISPLACEMENT OF ATOMS IN COPPER AND MOLYBDENUM
67-01 M13-58139
THE FINE STRUCTURE OF REDUCED COPPER POWDER IN COMPACTS 67-02 M09-61624
POSSIBILITY OF CONTROLLING GRAIN SIZE IN COPPER
67-02 M13-60782
GRAIN-BOUNDARY SLIDING IN METALS
67-02 M13-61780
EFFECT OF ANNEALING ON THE STRUCTURE OF VACUUM METAL CONDENSATES 67-02 M13-61926
LOW-TEMPERATURE ANNEALING OF PLASTICALLY DEFORMED METALS 67-02 M13-61930
A STUDY OF THE MECHANISM OF INTERGRANULAR CREEP CAVITATION BY SHADOWGRAPHIC ELECTRON MICROSCOPY
67-02 M17-60641
ELASTIC STRAINS IN COPPER DEFORMED BY ROLLING
67-03 M13-65123
TRANSMISSION ELECTRON MICROSCOPE STUDY OF ROLLED STRUCTURES IN COPPERS OF VARYING PURITY
67-03 M13-65549
COPPER PURITY INFLUENCE ON ITS POLYGONIZATION APTITUDE 67-03 M14-65552
RECRYSTALLIZATION DUE TO PLASTIC DEFORMATION IN HOT WORKING 67-03 M14-65556
EXPLOSION STRENGTHENING OF ARMCO IRON
67-04 M17-67646
INTERSTITIAL DISLOCATION LOOPS IN NEUTRON IRRADIATED COPPER 67-05 M16-68298
ON THE DIRECTION OF SLIP BANDS IN UNIDIRECTIONAL EXTENSION OF POLYCRYSTALLINE COPPER AND ALUMINUM
67-06 M13-70156
PROBLEMS IN THE DIRECT DETERMINATION OF GRAIN SIZE AT ELEVATED TEMPERATURES 67-06 M13-72160
SOME ASPECTS OF DUCTILE FRACTURE IN METALS
67-06 M17-70623
EFFECT OF CRYSTALLOGRAPHIC ORIENTATION ON ETCHING PROPERTIES OF METAL SINGLE CRYSTALS--COPPER 67-09 M13-78268
DISTURBANCE OF THE METAL STRUCTURE IN THE SLIP BANDS BY FATIGUE 67-10 M13-78710
NEW INVESTIGATIONS OF HATCH ETCHING AS INFLUENCED BY ORIENTATION IN AL, CU AND FE-SI
67-10 M13-79483
A SOURCE OF DISLOCATIONS IN COPPER CRYSTALS
67-11 M13-80620
STUDIES ON THE SUBSTRUCTURE DEVELOPED DURING CREEP DEFORMATION OF COPPER CRYSTALS
67-11 M13-80953
GRAIN BOUNDARY DISPLACEMENT IN A METAL UNDER THE EFFECT OF AN ELECTRIC FIELD 67-11 M14-80247
STUDY OF THE INVERSE ROWLAND MECHANISM FOR THE NUCLEATION OF A CUBE RECRYSTALLIZATION TEXTURE
67-11 M14-80945
QUANTITATIVE STUDY OF THE SUBSTRUCTURE AND PROPERTIES OF SHOCK-LOADED COPPER
67-12 M13-82860

COPPER, MOLDS
WELDED CASTING MOLDS OF COPPER 67-05 M06-69071

COPPER, OPTICAL PROPERTIES
BRIGHTNESS COEFFICIENTS OF METAL POWDERS
67-02 M09-62174
OPTICAL PROPERTIES OF EVAPORATED FILMS OF CHROMIUM AND COPPER 67-02 M15-60688
RELATIONSHIP BETWEEN A PORTION OF THE METALLIC SURFACE AND THE BRIGHTNESS COEFFICIENTS OF POWDERS 67-08 M15-75432
LUMINANCE FACTORS OF METAL POWDERS
67-08 M15-75950

COPPER, OXIDATION
EFFECT OF HEATING SINGLE CRYSTAL COPPER IN H2 AND N2 ON THIN-FILM OXIDATION KINETICS
67-09 M18-77886

COPPER, PHASE TRANSFORMATIONS
PHASE AND ORDER TRANSITIONS DURING AND AFTER FILM DEPOSITION 67-01 M14-57121

COPPER, PHYSICAL PROPERTIES
ELECTRICAL AND THERMOMETRIC PROPERTIES OF SUPERIMPOSED LEAD-COPPER FILMS AT LOW TEMPERATURES 67-04 M15-66120
THE EFFECT OF THE ZN CONCENTRATION ON THE INTERNAL FRICTION OF BRASSES 67-04 M15-67234
PRECIOUS METALS--GLAMOUR PUTS ON A HARD HAT
67-06 M01-70485
THE EFFECT OF STRAIN HARDENING AND HEAT TREATMENT ON THE ELECTRICAL CONDUCTIVITY OF POLYCRYSTALLINE COPPER FILMS 67-06 M15-70745
INERTIA OF EXOELECTRON EMISSION OF STRAINED METALS
67-08 M16-75889
VARIATION OF TEMPERATURE DURING THE FIRST STAGE OF AN ELECTRIC EXPLOSION OF WIRES
67-10 M15-79254
PIEZO-OPTICAL CONSTANTS, DEFORMATION POTENTIALS, AND THE ELECTRONIC STRUCTURE OF COPPER
67-10 M15-80013
EFFECT OF PLASTIC DEFORMATION ON THE ABSOLUTE THERMOPOWER OF ALPHA-BRASS 67-11 M15-80633
MELTING CURVES OF COPPER, SILVER, GOLD, AND PLATINUM TO 70 KBAR 67-12 M15-82527

COPPER, PLATING
INVESTIGATION OF INTERNAL STRESSES IN SN-NI COATINGS 67-07 M12-73652
CADMIUM COATINGS REINFORCED WITH SOLID PARTICLES
67-07 M12-73653

COPPER, POROSITY
DEVELOPMENT OF CAVITIES IN CREEP
67-05 M17-68857

COPPER, POWDER METALLURGY
SINTERED METAL FRICTION MATERIALS
67-01 M09-58366
INCREASING THE COMPACTING RATE OF MOISTENED METAL POWDERS 67-02 M09-59604
ELECTROLYZER FOR PREPARATION OF HYPERFINE POWDERY COPPER 67-02 M09-59613
AUTOCLAVE TECHNOLOGY OF PRODUCING COPPER POWDERS
67-02 M09-60560
THE PRODUCTION AND PROPERTIES OF SPHERICAL COPPER POWDERS AND PARTS FROM SUCH POWDERS
67-02 M09-61781
CHANGES IN THE PROPERTIES OF SINTERED CONTACT MATERIALS 67-04 M09-66267
STUDY OF SPECIFIC PRESSURE DURING METAL POWDER ROLLING 67-04 M09-67334
OXYGEN CONTENT IN SINTERING METAL POWDERS--AN EXPERIMENTAL STUDY 67-05 M09-68394
CONDITIONS SURROUNDING CATHODIC DEPOSITION OF CERTAIN METAL POWDERS AT HIGH CURRENT DENSITIES
67-05 M09-68403
SINTERED MATERIALS AND COMPONENTS. PROPERTIES OF MATERIALS PRODUCED BY EXTRUDING AND SINTERING PLASTICIZED POWDER MIXTURES 67-06 M09-70960
INFLUENCE OF ANTIMONY ADDITION IN ELECTROLYTE ON PRECIPITATION OF COPPER POWDER
67-06 M09-72317
ROLLING TEXTURE OF SINTERED COPPER
67-06 M09-72321
MANUFACTURE OF BRONZE-GRAPHITE STRIPS BY POWDER ROLLING 67-07 M09-72502
THE MECHANISM OF THE COMPACTION OF METAL POWDERS BY ROLLING 67-07 M09-73865
VIBRATORY COMPACTING OF METAL POWDERS
67-07 M09-73872
POWDER METALLURGY PARTS IN AUTOMOBILE MANUFACTURING
67-08 M09-74318
INVESTIGATION OF ULTRAFINE POWDERS OF COPPER AND

BRONZE 67-08 M09-74320
LOW-TEMPERATURE HOT PRESSING OF POWDERED-METAL COPPER 67-08 M09-74920
STUDY OF THE PROPERTIES AND OF THE PROCESS OF SINTERING POWDERED METAL FILTERS USING RESISTOMETRIC METHODS 67-08 M09-75463
THE EFFECT OF THE ENERGY OF INTERNAL DEFECTS IN THE CRYSTAL STRUCTURE AND OF THE SURFACE ENERGY ON THE SHRINKAGE OF SPECIMENS FROM COPPER POWDERS OF DIFFERENT ACTIVITIES 67-08 M09-75465
PRODUCTION OF POWDER COMPOSITE COLLECTOR PLATES FOR A DK-908 ELECTRIC MOTOR 67-08 M09-75469
PRODUCTION AND PROPERTIES OF POWDERED COPPER HARDENED BY DISPERSED PARTICLES OF REFRACTORY COMPOUNDS 67-08 M09-75471
DESIGN FOR POWDER METALLURGY 67-08 M09-75611
PREPARATION OF FINE METAL PARTICLES BY MEANS OF EVAPORATION IN HELIUM GAS 67-08 M09-75933
CHARACTERISTICS OF EXTRUDING AND SINTERING REDUCED COPPER POWDERS 67-09 M09-76566
EFFECT OF THE STRESS CONDITION PRODUCED IN THE EXTRUSION VOLUME ON THE SHRINKAGE DURING SINTERING. PT. 1. EFFECT OF HEATING AND COOLING RATES ON SHRINKAGE OF SPECIMENS DURING SINTERING 67-09 M09-76567
EXTENDING THE POWDER ROLLING VELOCITY RANGE BY POWDER WETTING 67-09 M09-76922
ELECTROLYZER FOR THE PREPARATION OF FINE COPPER POWDER 67-09 M09-76931
SOME REGULARITIES GOVERNING THE CHANGE IN THE PROPERTIES OF CONTACT MATERIALS MANUFACTURED BY POWDER METALLURGY TECHNIQUES 67-10 M09-78999
EXPERIENCE WITH THE PRODUCTION OF BRONZE-GRAPHITE STRIP BY POWDER ROLLING 67-11 M09-80888
PROGRESSIVE SHAPE CHANGES OF THE VOID DURING SINTERING 67-11 M09-81339
ELASTIC DEFORMATION OF ROLLS IN METAL POWDER ROLLING 67-12 M09-82206
INFLUENCE OF AIR ON THE ROLLING PROCESS OF METAL POWDERS 67-12 M09-83564
CHANGES IN SINTERING KINETICS UNDER THE INFLUENCE OF ULTRASONIC VIBRATIONS 67-12 M09-83566

COPPER, POWDER METALLURGY PARTS
EXPERIENCE IN MANUFACTURING FRICTION SINTERED ALLOYS WITH AN IRON BASE 67-02 M09-62131

COPPER, PRECIPITATES
MICROPROBE INVESTIGATIONS OF COPPER PRECIPITATES IN SILICON SINGLE CRYSTALS 67-10 M13-79011

COPPER, QUATERNARY SYSTEMS
AN INVESTIGATION OF THE LIQUID MISCIBILITY GAPS IN THE LEAD-COPPER-IRON-ARSENIC SYSTEM 67-11 M15-81338

COPPER, REACTIONS /CHEMICAL/
DISSOLUTION OF METALS BY AC ELECTROLYSIS 67-01 M14-58583
INTERNAL OXIDATION OF CU WITH SLIGHT MG ADDITIONS 67-02 M18-60208
STUDY OF THE REACTION BETWEEN METAL AND MOLTEN SALTS. PT. 1. DISSOLUTION OF COPPER IN MOLTEN BISMUTH TRICHLORIDE 67-04 M15-66275
INFLUENCE OF HYDROGEN, HIGH TEMPERATURE AND HIGH PRESSURE ON MECHANICAL PROPERTIES OF METALS 67-04 M17-66345
CERAMIC THERMOCHEMISTRY 67-05 M15-69139
ON INTERFACIAL PROPERTIES BETWEEN MOLTEN SILVER, COPPER, NICKEL AND THESE BINARY ALLOYS AND MOLTEN SLAG 67-06 M14-70789
INTERFACIAL REACTIONS IN LEAD OXIDE-BEARING ENAMEL-METAL SYSTEMS 67-06 M14-71163
INVESTIGATION OF THE SURFACE REACTIONS ON COPPER BY SLOW ELECTRON DIFFRACTION METHOD. PT. 2 67-10 M14-79569
A KINETIC STUDY OF COPPER PRECIPITATION ON IRON. PT. 2 67-12 M14-82734
BEHAVIOR OF COPPER IN A GASEOUS FLUORIDATING MEDIUM 67-12 M14-83231

COPPER, RECOVERING
PILOT HYDROMETALLURGICAL TREATMENT TESTS MADE ON A COPPER-ZINC-PYRITE PRODUCT 67-06 M03-71347

COPPER, RECRYSTALLIZATION /METALLURGICAL/
NUCLEATION DURING RECRYSTALLIZATION 67-05 M14-69726

COPPER, REDUCING AGENTS
DIRECT REDUCTION OF CADMIUM SULPHIDE WITH COPPER 67-10 M03-79503

COPPER, REDUCTION /CHEMICAL/
THE MECHANISM OF THE REDUCTION OF COPPER FROM FINE LAYERS OF ITS OXIDE 67-06 M03-72104

COPPER, REFINING
INCREASED PRODUCTIVITY AND EFFICIENCY IN THE OPERATION OF REVERBERATORY FURNACES 67-02 M03-59700
POSSIBLE USE OF MINERALOGICAL ANALYSIS TO FIND HOW NONFERROUS METALS ARE LOST WITH SLAGS 67-02 M03-60085
HOW ALUMINA AFFECTS COPPER MELT SLAGS 67-02 M03-60090
PURIFICATION OF COPPER BY THE ZONE MELTING METHOD 67-02 M03-60819
CALCULATING CURRENT EFFICIENCY WHEN ELECTROREFINING SLIME-FORMING COPPER ON REVERSE CURRENT 67-02 M03-61276
AN IMPROVED METHOD FOR MAKING STARTING SHEETS FOR ELECTROLYTIC COPPER REFINING 67-03 M03-65086
ELECTROLYSIS OF DUMP SLAGS FROM COPPER SMELTING 67-03 M03-65576
OPTIMIZATION OF PROPORTIONING LIMESTONE INTO A COPPER CHARGE 67-04 M03-66963
LOSSES OF METALS WITH SLAG DURING CONVERTER BLOWING OF COPPER-NICKEL MATTE 67-04 M03-66964
EFFECT OF DUTY CYCLE AND FREQUENCY OF PULSED CURRENT ON THE ELECTROCHEMICAL ASPECTS OF THE ELECTROLYSIS PROCESS 67-04 M12-66872
ELECTROSLAG REMELTING OF CU 67-05 M03-68233
THE INFLUENCES OF OXYGEN CONTENT IN ANODE COPPER AND IN ELECTROLYTE ON COURSE OF ELECTROLYTIC COPPER REFINING 67-06 M03-70854
WHO WOULDNT TOUCH COPPER WITH A TEN-FOOT POLE 67-06 M03-71237
NON-FERROUS METALS RESEARCH 67-07 M01-74165
LIFE OF DINAS REFRACTORIES IN COPPER-REFINING FURNACES 67-07 M03-72779
LABORATORY STUDIES ON THE HYDROMETALLURGICAL TREATMENT OF COPPER-LEAD-ZINC INTERMEDIATE PRODUCTS 67-07 M03-72782
DISTRIBUTION OF IMPURITIES IN ELECTRON BEAM MELTED INGOTS 67-07 M03-73420
THE DISTRIBUTION OF LEAD BETWEEN THE METAL AND THE SLAG IN DRY COPPER REFINING 67-07 M03-74106
QUALITY CONTROL OF ELECTROLYTIC TOUGH PITCH COPPER 67-08 M03-74780
ENERGY REQUIREMENTS IN THE ELECTRODEPOSITION OF COPPER 67-08 M03-74782
DEGASSING OF CU BY HEATING IN AN ULTRAHIGH VACUUM 67-08 M06-75184
GAS CONTENT IN VACUUM MELTED CAST COPPER 67-08 M06-76247
INVESTIGATION OF THE ELECTROLYTIC REDUCTION OF TITANIUM SULFATE --4-- DURING THE MANUFACTURE OF HIGHLY DISPERSED POWDERED COPPER 67-09 M03-77050
PILOT TRIALS SET FOR COPPER ELECTROWINNING 67-09 M03-77099
CONTINUOUS MELTING, CASTING AND ROLLING OF COPPER ROD 67-09 M03-77918
AN INPUT-OUTPUT MODEL TO CALCULATE THE PRODUCTION FLOW OF CATHODIC CU 67-10 M03-78314
THE ELECTROLYTIC DEOXIDATION OF METALLIC MELTS, PARTICULARLY STEEL AND CU 67-10 M04-78792
OUTGASSING OF METAL SURFACES BY ELECTRON BOMBARDMENT 67-11 M04-80424
STATIONARY REVERBERATORY FURNACES IN THE CU INDUSTRY 67-12 M03-82665
METALLURGY OF CU FOR ELECTRICAL USE 67-12 M03-82896

COPPER, REPLICAS
ON THE DETERMINATION OF THE NUMBER, SIZE, SPACING, AND VOLUME FRACTION OF SPHERICAL SECOND-PHASE PARTICLES FROM EXTRACTION REPLICAS 67-02 M13-59422

COPPER, ROLLING
RATIONALIZATION OF ROLLING AND DRAWING PROCESS DESIGNS ANALYSIS 67-01 M07-58576
STUDY ON HELICAL ROLLING. PT. 1. PRELIMINARY EXPERIMENT WITH LEAD BILLETS 67-05 M07-69370
THE NATURE OF TRANSITION TEXTURES IN COPPER 67-06 M13-69935
AN IMPROVED TECHNOLOGY FOR HOT ROLLING OF COPPER-ZINC ALLOYS 67-07 M07-72784
STUDY OF METAL FLOW IN THE SEAT OF DEFORMATION 67-08 M07-75011
FRICTION DURING HIGH-SPEED COLD ROLLING OF METALS WITH VARIOUS LUBRICANTS 67-12 M07-81715
THE ORIGIN OF SOME SURFACE DEFECTS ON ROLLED AND DRAWN PRODUCTS 67-12 M07-83234

COPPER, SCATTERING
SCATTERING OF ELECTRONS IN THIN COPPER AND GOLD

FILMS 67-06 M16-70526
COPPER, SEPARATION
AUTOMATIC SEPARATION OF CU FROM NICKEL ELECTROLYTE IN FLUID BED CEMENTATORS 67-07 M03-73410
AUTOMATIC SYSTEM FOR CONTROL OF COPPER WHEN SEPARATING COPPER AND CADMIUM IMPURITIES FROM ZINC ELECTROLYTES 67-08 M03-75202
COPPER, SINGLE CRYSTALS
AN ELECTROLYTIC METHOD OF SECTIONING METAL SPECIMENS FOR DIFFUSION STUDIES 67-01 M19-57593
CLEAVAGE CRACKS INDUCED BY SPARK MACHINING 67-02 M08-61779
OXIDATION OF COPPER SINGLE CRYSTALS IN AQUEOUS SOLUTIONS OF INORGANIC SALTS. PT. 4. EFFECT OF PH ON OXIDE TOPOGRAPHY IN CUSO4 AND CU--OAC--2 SOLUTIONS 67-02 M14-61762
ON THE STRENGTHENING MECHANISM IN NEUTRON IRRADIATED COPPER SINGLE CRYSTALS. PT. 1. ON EXPERIMENTS CONCERNING STRAIN RATE CHANGES 67-02 M17-61505
ROLLING AND ANNEALING TEXTURE OF --112-- --163-- COPPER SINGLE CRYSTAL 67-05 M14-68569
ULTRASONIC INVESTIGATION OF CU SINGLE CRYSTALS 67-06 M17-71176
HARDENING IN IRRADIATED COPPER CRYSTALS 67-08 M16-75240
LEED AND HEED STUDIES OF THE INTERACTION OF OXYGEN WITH SINGLE CRYSTAL SURFACES OF COPPER 67-10 M14-79551
SURFACE ASYMMETRY MECHANISM FOR FRACTIONAL ORDER PEAKS OBSERVED IN LEED BEAMS FROM METALS 67-10 M16-79545
INELASTIC SCATTERING OF LOW ENERGY ELECTRONS FROM SURFACES 67-10 M16-79558
DIFFUSIONAL PROPERTIES OF THE STAGE-3 DEFECT IN COPPER. PT. 1. EXPERIMENTAL RESULTS 67-11 M16-81080
FREQUENCY DEPENDENCE OF DISLOCATION DAMPING IN SINGLE-CRYSTAL COPPER 67-11 M17-81093
FATIGUE HARDENING OF COPPER SINGLE CRYSTALS AT LOW STRESS AMPLITUDES 67-11 M17-81261
DISLOCATION MOBILITY IN COPPER 67-12 M13-82368
STRUCTURE OF AN ADSORBED SULFUR LAYER ON THE --100-- FACE OF COPPER 67-12 M13-82591
THE MECHANISM OF STAGE 1 CRACK PROPAGATION IN FATIGUE 67-12 M17-82725
SOME EFFECTS OF PROTON, ELECTRON, AND NEUTRON IRRADIATION ON THE FATIGUE PROPERTIES OF COPPER SINGLE CRYSTALS 67-12 M17-82971
COPPER, SMELTING
RECENT CHANGES IN REVERBATORY SMELTING PRACTICE AT SOVIET COPPER SMELTERS 67-12 M02-83087
AUTOMATION OF REVERBATORY FURNACES AT COPPER SMELTERS ABROAD 67-12 M02-83101
COPPER, SOLDERING
THE ACTION OF FLUXES THAT ASSIST TINNING AND SOLDERING 67-04 M11-67761
SOLDERABILITY OF COATINGS FOR PRINTED CIRCUITS 67-05 M11-68827
MICROPROBE INVESTIGATIONS OF DIFFUSION PHENOMENA IN SOLDERED AND BRAZED JOINTS 67-06 M11-70240
PROPERTIES OF CADMIUM-ZINC HIGH STRENGTH SOLDER ALLOY 67-06 M12-72150
SOLDERING PALLADIUM PLATED ELECTRONIC COMPONENTS. AN INVESTIGATION OF THE RELIABILITY OF JOINTS 67-07 M11-72879
THE ATTAINMENT OF THE BEST POSSIBLE SOLDERABILITY IN THE ELECTRONIC INDUSTRY 67-11 M11-81026
DEVELOPING NEW FLUXES FOR SOFT SOLDERING AND THE RESULTANT DIFFICULTIES 67-11 M11-81027
COPPER, SOLUBILITY
SOLUBILITY OF HYDROGEN IN SOLID COPPER, SILVER, AND GOLD OBTAINED BY A RAPID QUENCH AND EXTRACTION TECHNIQUE 67-12 M14-82567
COPPER, STRESS RELAXATION
PLASTIC RELAXATION OF STRESSES IN ALUMINIUM AND COPPER 67-05 M17-68845
COPPER, SUPERCONDUCTIVITY
50 CPS A-C LOSSES IN NIOBIUM-COPPER COMPOSITE CONDUCTORS AT 4.2 K 67-01 M16-58640
COPPER, SURFACE FINISHING
FUNDAMENTAL STUDIES ON LAPPING 67-01 M08-57216
HONE TO SIZE--SUPERFINISH TO SHAPE 67-02 M08-61126
CHEMICAL POLISHING OF COPPER 67-02 M12-61130
NEW POLISHING MATERIALS FOR PROCESSING OF SINGLE CRYSTALS 67-06 M12-72324
PROGRESS IN THE FIELD OF ELECTROLYTIC POLISHING AND DEBURRING 67-09 M12-76700
ELECTROLYTIC POLISHING OF COPPER AND NICKEL SILVER 67-09 M12-77142
RESEARCHES ON BARREL FINISHING 67-12 M12-83598
COPPER, SURFACE PROPERTIES
THE ADSORPTION OF SULFUR ON COPPER 67-01 M14-57422
WETTING TRANSITION-ELEMENT NITRIDES WITH FUSED OXIDES AND METALS 67-02 M15-60091
THE KINETICS OF SESSILE-DROP SPREADING IN REACTING METAL-METAL SYSTEMS 67-03 M15-65080
INVESTIGATION OF THE DESORPTION OF GASES FROM METAL SURFACES UNDER THE ACTION OF ELECTRON BOMBARDMENT 67-06 M14-72036
THE EFFECT OF A SURFACES ROUGHNESS ON ITS WETTABILITY BY METALS 67-09 M15-76954
COPPER, TERNARY SYSTEMS
THE COPPER-TIN-ARSENIC CONSTITUTION DIAGRAM. PT. 1. SOLIDIFICATION REACTIONS 67-01 M13-57419
THE COPPER-TIN-ARSENIC CONSTITUTION DIAGRAM. PT. 2. REACTIONS IN THE SOLID STATE 67-01 M13-57420
THE COPPER CORNER OF THE COPPER-NICKEL-BORON SYSTEM 67-01 M13-58046
PERMANENT MAGNET CAPABLE OF COLD WORKING 67-01 M20-57518
THE TERNARY EQUILIBRIUM SYSTEM CU-MN-AL 67-05 M13-69851
PHASE DIAGRAM OF ALLOYS OF THE COPPER-GERMANIUM-TIN TERNARY SYSTEM 67-06 M13-70375
PLANES AND NONVARIANT EQUILIBRIA IN THE SYSTEM COPPER-CADMIUM-ZINC 67-06 M14-71660
PHASE-RELATIONS IN COPPER-CADMIUM-ZINC-ALLOYS 67-06 M14-71859
THE RECIPROCAL INFLUENCES OF SOME TE IMPURITIES UPON THEIR SEGREGATIONIST BEHAVIOR 67-07 M03-73834
ELECTRODEPOSITION OF THIN MAGNETIC FILMS IN THE NI-FE-CU SYSTEM 67-07 M12-73593
TERNARY COMPOUNDS WITH A SUPERLATTICE OF THMN12 TYPE IN THE YTTRIUM-TRANSITION METAL-ALUMINUM SYSTEMS 67-07 M13-73480
TERNARY CONDENSED PHASE SYSTEMS OF GALLIUM AND ARSENIC WITH GROUP IB ELEMENTS 67-07 M14-73460
THE STRUCTURE OF THE COPPER-NICKEL-OXYGEN SYSTEM AND ITS EFFECT ON THE BEHAVIOR OF NICKEL IN DRY COPPER REFINING 67-08 M03-75693
EXAMINATION OF THE SYSTEM CU-AS-S AND THE DISTRIBUTION OF AG BETWEEN MATTE AND SPEISS 67-08 M15-74598
THE MICROSTRUCTURES OF TERNARY EUTECTIC ALLOYS IN THE SYSTEMS CD-SN---PB, IN, TL--, AL-CU---MG, ZN, AG--, AND ZN-SN-PB 67-09 M13-76678
CONTRIBUTION TO THE STUDY OF THE CHEMICAL ACTIVITY OF THE ELEMENTS PHOSPHORUS, SULPHUR, SILICON, COPPER AND CHROMIUM IN MOLTEN IRON SOLUTIONS SATURATED WITH CARBON 67-09 M14-77343
THE PHASE DIAGRAM OF A TERNARY SYSTEM OF COPPER-GERMANIUM-TIN ALLOYS 67-10 M13-80027
STUDIES ON PROPERTIES OF SOME TERNARY COPPER ALLOYS OF THE CU-MN-ZN AND CU-MN-NI SYSTEM 67-10 M17-78607
AN X-RAY STUDY ON THE STRUCTURE OF THE TERNARY AU-CU-ZN MARTENSITE 67-11 M13-80810
TERNARY DIFFUSION IN COPPER-SILVER-GOLD ALLOYS 67-12 M14-82713
PREDICTING THE COURSE OF HOMOGENIZATION IN MULTICOMPONENT ALLOYS 67-12 M14-82849
COPPER, THERMAL PROPERTIES
A USEFUL RELATIONSHIP BETWEEN ATOMIC VIBRATION AMPLITUDES AND THERMAL EXPANSION FOR CUBIC SOLIDS 67-02 M15-59099
TRANSIENT DETERMINATIONS OF THERMAL DIFFUSIVITIES AND DISSIPATIONS OF METAL FOILS 67-02 M15-61073
THERMODYNAMIC PROPERTIES OF COPPER-PLATINUM ALLOYS 67-03 M15-65098
TEMPERATURE VARIATION OF THE GRUNEISEN PARAMETER OF COPPER 67-03 M15-65372
DISSOLUTION CALORIMETER IN TIN AND APPLICATION TO THE STUDY OF CERTAIN ORDER-DISORDER TRANSFORMATIONS 67-04 M14-66047
DEBYE-WALLER FACTORS OF COPPER AND GOLD 67-05 M15-69673
ANHARMONICITY IN NOBLE METALS--SOME THERMAL PROPERTIES 67-05 M15-69812
A METHOD OF MEASURING THERMAL DIFFUSIVITY BY HEATING OF STEP FUNCTION CHANGE 67-06 M15-71557

COPPER

CALIBRATION AND USE OF GERMANIUM RESISTANCE THERMOMETERS FOR PRECISE HEAT CAPACITY MEASUREMENTS FROM 1 TO 25 K. HIGH PURITY COPPER FOR INTERLABORATORY HEAT CAPACITY COMPARISONS 67-06 M20-70832
SPONTANEOUS HEATING OF POROUS MATERIALS DURING OXIDATION 67-08 M09-75852
LOW TEMPERATURE LIQUID-VAPOR DEFORMATION CALORIMETER 67-08 M15-76155
DETERMINATION OF THE LATENT ENERGY OF PLASTIC DEFORMATION OF COPPER FROM THE DIFFERENCE OF ELECTROLYTIC POTENTIALS 67-11 M17-81051

COPPER, THERMODYNAMICS
THERMODYNAMICS OF SHOCK COMPRESSION OF METALS 67-03 M15-65120
DEPARTURES FROM LINEARITY IN ARRHENIUS PLOTS OF VACANCY CONCENTRATION 67-07 M15-73912

COPPER, THERMOELECTRICITY
ELECTRICAL AND THERMOELECTRICAL PROPERTIES OF THIN COPPER FILMS 67-07 M15-72575

COPPER, THIN FILMS
COPPER FOILS BY ELECTROFORMING 67-02 M07-61105
THE EFFECT OF PRECIPITATION CONDITIONS ON THE PROPERTIES OF ELECTROLYTIC CU DEPOSITS 67-02 M14-61885
ELECTRODEPOSITION OF METALS IN ULTRASONIC FIELDS 67-04 M12-66279
STRENGTH OF MULTILAYERED VACUUM CONDENSATES 67-05 M17-68578
THE MECHANISM OF THE FORMATION OF GALVANICALLY SUBSTITUTED CU FILMS 67-06 M12-71291
INFLUENCE OF A SUPERIMPOSED FILM ON THE ELECTRICAL CONDUCTIVITY OF THIN METAL FILMS 67-11 M15-81087
STUDY OF THE STRUCTURE OF METAL SURFACES BY LOW-ENERGY ELECTRON DIFFRACTION 67-12 M13-82352
HALL EFFECT IN THIN METAL FILMS 67-12 M15-82369

COPPER, TRANSFORMERS
THE MANUFACTURE OF STRIP CONDUCTORS FOR POWER TRANSFORMERS. PT. 2 67-06 M17-71414

COPPER, TRANSPORT PROPERTIES
ELECTRON AND ION EMISSION FROM A COPPER SURFACE IN THE PRESENCE OF OXYGEN, CESIUM AND OXYGEN PLUS CESIUM 67-09 M16-76484
TRANSITIONAL IMPURITIES IN LIQUID COPPER 67-09 M16-77523
ELECTRICAL TRANSFER OF SILVER IN POLYCRYSTALS OF FIRST GROUP NOBLE METALS 67-10 M15-78353
EFFECT OF ELECTRICAL FIELD ON INTERCRYSTALLINE DIFFUSION IN GROUP I NOBLE METALS 67-12 M14-82331
MEASURING METHODS FOR MASS TRANSPORT 67-12 M16-82050

COPPER, TUBEMAKING
COPPER TUBE PROCESSING MILL IN OHIO 67-04 M07-68129
MECHANIZATION OF MILL FOR DRAWING OF LARGE SIZE COPPER TUBES 67-08 M07-75214

COPPER, TUBING /METAL/
A MODERN MILL FOR COPPER TUBING 67-05 M20-69499

COPPER, WAVE MECHANICS
AMPLITUDE DEPENDENCE OF ULTRASONIC ATTENUATION IN SINGLE-CRYSTAL COPPER 67-06 M16-71099

COPPER, WEAR
WEAR MECHANISM OF THE SURFACE OF CU-ZN METAL GROUP IN THE PRESENCE OF MERCURY AND ULTRASONIC VIBRATIONS 67-07 M17-73162

COPPER, WELDING
AUTOMATIC SUBMERGED ARC WELDING OF COPPER TO STEEL OF LARGE THICKNESSES 67-01 M11-58216
HEAT PROPAGATION DURING FUSION WELDING OF ALUMINUM TO COPPER 67-01 M11-58269
SOME ENERGY PARAMETERS OF THE ARC IN ARGON WITH CONSUMABLE ELECTRODE 67-01 M11-58270
FUSION WELDING OF ALUMINUM WITH COPPER 67-01 M11-58277
THE WASH-LAP WELDING PROCESS 67-02 M11-59486
LASER WELDING OF CERTAIN METALS 67-02 M11-59511
WELDING OF COPPER AND COPPER ALLOYS IN THE CONSTRUCTION OF VESSELS AND OTHER EQUIPMENT 67-02 M11-59830
WELDING CU AND CU ALLOYS UNDER PROTECTIVE ATMOSPHERES 67-02 M11-61887
LASER WELDING OF SOME METALS 67-04 M11-66460
METALLURGICAL PROCESSES IN THE SOLDERING OF CU AND THE STRENGTH BEHAVIOR OF SOLDERED JOINTS 67-04 M11-67077
THE MANUAL AND AUTOMATIC TIG WELDING OF THIN CU SHEETS 67-04 M11-67078
CERTAIN POWER PARAMETERS OF THE ARGON SHIELDED ARC FROM A CONSUMABLE ELECTRODE 67-04 M11-67351
FUSION WELDING ALUMINIUM TO COPPER 67-04 M11-67358
QUALITY CONTROL OF ULTRASONIC WELDED JOINTS 67-04 M11-67803
THERMOCRUCIBLE WELDING CONNECTIONS TO EARTHING DEVICES 67-04 M11-67937
ADVANTAGES OF PLASMA ARC WELDING 67-05 M11-69557
ELECTRODE FOR WELDING COPPER 67-06 M11-70205
IN-PROCESS QUALITY CONTROL OF ULTRASONIC WELDS IN COPPER SHEET 67-06 M11-70303
WARM-WELDING OF METALS IN ULTRA-HIGH VACUUM 67-06 M11-70953
COLD WELDING OF TRANSISTOR HOUSINGS 67-06 M11-71655
CALCULATION OF THE WEIGHT OF WELDING POOL DURING FUSION WELDING 67-06 M11-71841
CHARACTERISTICS OF AUTOMATIC ARC WELDING OF ALUMINUM TO COPPER WITH APPLICATION OF FLUXES 67-06 M11-71852
MELTING AND RECRYSTALLIZATION OF WELDED SPOT PRODUCED BY PULSATION ARC WELDING 67-06 M11-72306
WELDING HEAT-RESISTANT CERMET COPPER-BASE ALLOYS WITH CAST COPPER BY THE DYNAMIC PRESSURE METHOD 67-06 M12-70777
GUIDE TO MIG WELDING PROCESSES 67-07 M11-73304
AN ANALYTICAL INVESTIGATION OF THE TEMPERATURE DISTRIBUTIONS DURING RESISTANCE WELDING 67-07 M11-74283
CRACK RESISTANCE OF COPPER WELDS CONTAINING BI AND PB IMPURITIES 67-08 M11-74370
WELDS WERE NEVER FINER THAN THEY ARE AT GODDARD 67-08 M11-74440
FRICTION WELDING. PT. 10. WELDING OF SMALL ROUND BARS 67-08 M11-75304
WELDING OF COPPER WITH DEEP PENETRATION ELECTRODES 67-08 M11-75360
DIFFUSION WELDING TITANIUM ALLOYS WITH COPPER ALLOYS 67-08 M11-75419
FRICTION WELDING 67-08 M11-75557
THE INFLUENCE OF PHYSICAL PROPERTIES ON PENETRATION IN ARC WELDING 67-09 M11-76462
COLD PRESSURE WELDING 67-09 M11-76512
WELDING EDGE JOINTS IN A TRANSVERSE MAGNETIC FIELD 67-09 M11-77242
FORMATION OF WELDED JOINTS IN ULTRASONIC WELDING OF METALS 67-09 M11-77620
COPPER AND ITS ALLOYS 67-09 M11-77710
ARGON ARC BUTT WELDING OF THIN COPPER STRIPS 67-09 M11-78131
COLD WELDING OF TRANSISTOR BODIES 67-10 M11-79623
COMPARISON OF THE BEHAVIOR OF SEVERAL METALS UNDER THE IMPACT OF THE ELECTRON BEAM OF A WELDING MACHINE 67-11 M11-80245
PLASMA ARC WELDS THIN MATERIALS FAST 67-11 M11-80524
CALCULATING THE DIMENSIONS AND WEIGHT OF THE WELD POOL DURING WELDING WITH FULL THICKNESS PENETRATION 67-11 M11-80873
THE AUTOMATIC SUBMERGED ARC WELDING OF ALUMINIUM TO COPPER 67-11 M11-80884
LOW CURRENT CO2 GAS SHIELDED WELDING PROCESS 67-11 M11-81007
THE MELTING AND SOLIDIFICATION OF PULSED ARC SPOT WELDS 67-11 M11-81578
THE DIFFUSION WELDING OF TITANIUM ALLOYS TO COPPER ALLOYS 67-12 M11-82040
CRACK RESISTANCE OF COPPER WELDS CONTAINING BI AND PB 67-12 M11-82243
CURRENT PENETRATION SEAM WELDING--A NEW HIGH SPEED PROCESS 67-12 M11-82818

COPPER, WHISKERS /METALS/
FORMS OF GROWTH OF CU WHISKERS AND DETERMINATION OF THEIR CRYSTAL STRUCTURE BY ELECTRON DIFFRACTION 67-05 M13-68645
GROWTH CURVE OF COPPER WHISKERS 67-06 M14-70254
FORMATION AND GROWTH OF COPPER WHISKERS OBSERVED UNDER THE MICROSCOPE 67-10 M14-80020

COPPER, WIRE
METAL CLAD EXTENDS COPPER CONDUCTOR RANGE TO 1300 F 67-10 M12-80093

THE DEVELOPMENT OF POWER CABLE MANUFACTURE
67-10 M20-78395
NASSAUS PROCESS FOR CONTINUOUS CASTING AND ROLLING OF COPPER ROD 67-10 M20-78581
CERAMIC INSULATED MAGNET WIRES 67-11 M12-81242

COPPER, X RAY ANALYSIS
SPECIMEN CONTAMINATION IN ELECTRON-PROBE MICROANALYSIS AND ITS PREVENTION USING A COLD TRAP 67-04 M13-66246
X-RAY DIFFRACTION DETERMINATION OF STACKING FAULT PROBABILITY IN METALS WITH FACE-CENTERED CUBIC LATTICE 67-08 M13-75347
SMALL VACANCY DISLOCATION LOOPS IN NEUTRON-IRRADIATED COPPER 67-09 M16-76597
AN X-RAY STUDY OF COPPER POWDER
67-12 M13-81735

COPPER, X RAY DIFFRACTION
FINDING MICROFOCUS OF X-RAY UNIT EMPLOYING TELEFOCUS ELECTRON BEAM ONE-STEP REDUCING TECHNIQUE AND ITS APPLICATION
67-05 M14-68534

COPPER BASE ALLOYS
SEE ALSO ALUMINUM BRONZES
BERYLLIUM BRONZES
BRASSES
LEADED BRASSES
MANGANESE BRONZES
PHOSPHOR BRONZES
SILICON BRONZES
SILVER BRAZING ALLOYS
TIN BRONZES
ULTRASONIC TREATMENT IN METALLURGY AND FOUNDRY PRACTICE 67-01 M01-57153
STUDY ON COPPER-RICH COPPER-HAFNIUM ALLOYS
67-02 M01-59984
KYCUBE COPPER-BERYLLIUM. DATA SHEET. NO 189
67-03 M01-65167
RECENT WORK ON CUPRO-ALUMINUM 67-05 M01-68916
AN ALLOY CONTAINING COPPER, SILICON AND ZINC
67-05 M01-69055
NICKEL SILVERS--THE VERSATILE ALLOYS
67-06 M01-70018
HIDURON 191 CUPRO-NICKEL 67-06 M01-70558
ENGINEERING TRENDS IN COPPER AND ITS ALLOYS
67-06 M01-70803
BRAZE ALLOY HOLDS BONDING STRENGTH OVER WIDE TEMPERATURE RANGE 67-06 M11-70011
BERYLLIUM COPPER ALLOYS SOLVE 11 DESIGN PROBLEMS
67-09 M01-77792

COPPER BASE ALLOYS, ALLOYING
PRINCIPLES OF ALLOYING HEAT RESISTANT CONDUCTING COPPER AND ALUMINUM ALLOYS 67-09 M03-77126

COPPER BASE ALLOYS, ATOMIC PROPERTIES
E. S. R. STUDY ON THE COPPER MANGANESE DILUTE ALLOY
67-05 M16-69761
COPPER, COPPER ALLOYS AND THE ELECTRON CONCENTRATION CONCEPT 67-06 M16-71968
PARAMAGNETIC RELAXATION OF MANGANESE IN COPPER METAL 67-07 M16-73544

COPPER BASE ALLOYS, BONDING
THE ADHESIVE BONDING OF METALS WITH DIFFERENT COEFFICIENTS OF THERMAL EXPANSION
67-05 M11-68939
EFFECT OF THICKNESS OF GLUE FILM ON THE LIFE OF GLUED METAL JOINTS IN WATER 67-05 M11-69043

COPPER BASE ALLOYS, BRAZING
METHOD OF PRODUCING SEMICONDUCTOR MOUNTS
67-02 M11-60937
GROWTH OF DIFFUSION LAYER IN COPPER JOINTS BRAZED WITH TIN-LEAD SOLDERS 67-04 M11-67805
NATURE AND GROWTH KINETICS OF THE DIFFUSION LAYER IN COPPER JOINTS MADE WITH TIN-LEAD SOLDERS
67-06 M11-70305

COPPER BASE ALLOYS, CASTING
CONTRIBUTION TO THE CAST CU-ZN-SI ALLOYS
67-01 M06-57238
HOW TO SELECT COPPER ALLOYS FOR CASTING
67-01 M06-58554
ONE SAND MIX FOR SEVERAL ALLOYS
67-03 M06-65415
DIE MATERIALS PACE CASTING PROGRESS
67-03 M06-65491
EQUIPMENT AND PRODUCTION TECHNOLOGY OF THIN-WALLED CASTINGS OF NONFERROUS ALLOYS
67-04 M06-67503
INGOT CASTING AND THE PRODUCTION OF SEMIFINISHED PRODUCTS FROM MONEL METAL NMZHMTS28-25, -1.5
67-05 M03-68234
CONTINUOUS CASTING OF SLEEVES ON A HORIZONTAL MACHINE 67-05 M06-69539
JAPANESE DEVELOPMENT IN HORIZONTAL CONTINUOUS CASTING OF COPPER ALLOYS 67-06 M03-71578
SELECTING ALLOYS FOR INVESTMENT CAST PARTS
67-08 M06-74498
COPPER BASE CASTING ALLOYS. HOT TEARING AND MODE OF SOLIDIFICATION. PT. 1. HOT TEARING OF COPPER BASE ALLOYS 67-08 M06-75033
MODE OF SOLIDIFICATION OF COPPER BASE CASTING ALLOYS. PT. 2 67-08 M06-75034
EXPERIMENTAL STUDY OF THE VALIDITY OF CLASSICAL HYPOTHESES CONCERNING HEAT TRANSMISSION
67-08 M06-76231
DIE MATERIALS LEAD TO DIE CASTING PROGRESS
67-10 M06-78577
PRESSURE-TIGHT SAND MOLD CASTINGS OF CU AND CU ALLOYS 67-10 M06-78647
PROBLEMS ASSOCIATED WITH THE USE OF COPPER ALLOY CASTINGS IN MARINE SERVICE 67-10 M06-79313
PATHWAY TO PROFITABLE TOOLING THROUGH PRECISION CASTING 67-10 M06-79523
MECHANICAL CHARACTERISTICS OF SOME CAST CU ALLOYS AT VERY LOW TEMPERATURES 67-11 M17-80200
MANUFACTURE OF COMPLICATED PARTS FROM A ZINC ALLOY BY THE PRESSURE CASTING METHOD
67-12 M06-81753
ANNUAL DIE CASTING REVIEW. PT. 1. PROPERTIES AND MATERIALS 67-12 M06-82940
GAS AND POROSITY IN CASTINGS. PT. 2
67-12 M06-83351
DIE CASTINGS SOLVE PRODUCT DESIGN PROBLEMS
67-12 M20-82709

COPPER BASE ALLOYS, CASTINGS
SEALING OF CASTINGS 67-01 M06-58357
ENGINEERED CASTINGS 67-03 M06-65496

COPPER BASE ALLOYS, CHEMICAL ANALYSIS
SN, FE, AND NICKEL DETERMINATIONS BY SPECTROPHOTOMETRY IN COPPER ALLOYS
67-02 M19-59166
COMPLETE SPECTROCHEMICAL CONTROL IN A DIVERSIFIED FOUNDRY 67-03 M19-65009
THE APPLICATION OF THE ZIEBOLD CORRECTION PROCEDURE FOR PROBE DATA TO THREE TERNARY COPPER-BASE ALLOYS 67-06 M19-71432
THE DISTRIBUTION OF ALLOYING ELEMENTS IN DENDRITES AND INTERDENDRITIC SPACES 67-06 M19-72155
ANALYSIS OF COPPER AND ITS ALLOYS
67-07 M01-72927
HOMOGENEITY OF COPPER ALLOY INGOTS
67-10 M19-78725

COPPER BASE ALLOYS, CLEANING
AUTOMATIC PICKLING OF BRASS AND COPPER WIRE
67-05 M12-68808
PICKLING OF COPPER AND BRASS 67-12 M12-82655

COPPER BASE ALLOYS, COATING
THE DEVELOPMENT OF TIN PLATING. PT. 3. WITH SPECIAL REFERENCE TO BRIGHT-TIN ELECTRODEPOSITION
67-01 M12-57560
ELECTROLESS NICKEL PLATING FROM ALKALI SOLUTIONS IN ABSENCE OF ORGANIC ADDITIONS 67-01 M12-58712
A NEW BLACK CHROMIUM PLATE 67-03 M12-65326
NEW DEVELOPMENTS IN THE SURFACE SCIENCE OF ELECTRIC CONTACTS 67-03 M18-65416
SCIENCE FOR ELECTROPLATERS. PT. 113. PLATINUM
67-04 M12-66509
FLEXIBLE PERFORMANCE PLATER 67-04 M12-68165
EFFECTS OF ULTRASONICS ON ELECTRODEPOSITION OF COPPER ALLOYS FROM CYANIDE ELECTROLYTES
67-06 M12-72083
COLORED FINISHES FOR COPPER AND COPPER ALLOYS USING SELENIOUS ACID 67-08 M12-74612
THE USE OF SPRAY COATING WITH ALUMINUM-COPPER PSEUDOALLOYS FOR SLIDING FRICTION BEARINGS
67-10 M12-78370
ADHERENCE AND POROSITY IN ION PLATED GOLD
67-12 M12-82456

COPPER BASE ALLOYS, COATINGS
THE ELECTRODEPOSITION OF COPPER-MOLYBDENUM ALLOYS
67-04 M12-68111
THE STRUCTURE OF AN ELECTRODEPOSITED COPPER-TIN ALLOY 67-04 M13-67098
SCIENCE FOR ELECTROPLATERS. PT. 115. ALLOYS
67-07 M12-73629
ELECTRODEPOSITION OF CU-SN ALLOYS WITH HIGH TIN CONTENT FROM PYROPHOSPHORIC ELECTROLYTE
67-10 M12-78530
PROPERTIES OF ELECTRODEPOSITED AG-CU ALLOYS. PT. 4. METALLURGICAL STUDIES ON ELECTRICAL CONTACT MATERIALS 67-12 M12-83509

COPPER BASE ALLOYS, CORROSION
RECOMMENDED DESIGN PRACTICES FOR STOPPING METAL CORROSION 67-01 M18-57232
WHY COPPER-NICKEL ALLOYS FOR DESALINATION 67-01 M18-57970
STUDY OF CORROSION AND CORROSION PROTECTION OF COPPER AND ITS ALLOYS 67-01 M18-58373
ALLOYS CONTAINING LARGE AMOUNTS OF COPPER AND NICKEL FOR USE IN SEA WATER 67-01 M18-58734
FIELD TEST RESULTS OF HIGH-PRESSURE FEED WATER HEATER TUBING MATERIALS OF A POWER PLANT 67-02 M18-59143
90/10 CUPRONICKELS FOR SEA WATER PIPING 67-02 M18-59417
SOME CORROSION PROBLEMS ARISING IN HEAT EXCHANGERS IN THE CHEMICAL INDUSTRY 67-02 M18-59485
CORROSION-RESISTANT COPPER ALLOY MAY DOOM STEEL TUBING FOR HYDRAULIC BRAKE LINES 67-02 M20-61641
ANODIC BEHAVIOR OF CU-NI ALLOYS IN AQUEOUS AMMONIUM SOLUTIONS 67-04 M18-67276
INVESTIGATION OF CU-NI ALLOYS FOR HEAT EXCHANGERS 67-04 M18-67855
WATER DESALINATION POSES TOUGH MATERIALS PROBLEMS 67-05 M18-68427
CONTRIBUTION TO THE PHENOMENOLOGY OF CORROSION AND PATINA FORMATION OF ANTIQUE COPPER ALLOYS 67-06 M18-70245
DEVELOPMENT OF ACCELERATED CORROSION TESTS FOR ELECTROPLATED COATINGS 67-06 M18-71382
EFFECT OF IMMERSION TIME FOR POLARIZATION PHENOMENA OF CONDENSER TUBE IN A FLOWING NACL SOLUTION 67-06 M18-71442
ANODIC BEHAVIOR OF CU-NI ALLOYS IN 0.5N NACL SOLUTION 67-07 M18-73648
HOW METALS RESIST SEA WATER 67-08 M18-74741
ALLOYS FOR SEA WATER CONVERSION. COPPER-BASE ALLOYS FOR HEAT EXCHANGE EQUIPMENT 67-08 M18-75742
WHY COPPER-NICKEL ALLOYS FOR DESALINATION 67-11 M18-80289
ATMOSPHERIC EFFECTS CAN BE CORRELATED 67-11 M18-81360
POLYURETHANE-BASED PROTECTIVE LACQUERS FOR COPPER AND ZINC 67-11 M18-81490
CORROSION UNDER HEAT TRANSFER--SERVICE FAILURES AND LABORATORY TESTING 67-11 M18-81552
COPPER ALLOYS IN PUMP CONSTRUCTION 67-12 M01-83210
ATMOSPHERIC CORROSION OF COPPER METALS 67-12 M18-81819
COPPER-BASE ALLOYS FOR USE IN SEA-WATER. PT. 2 67-12 M18-82132
SELECTION OF METALS FOR MARINE APPLICATIONS 67-12 M18-83226
INFLUENCE OF NICKEL ON THE RESISTANCE TO DEALUMINIZATION OF CU-AL ALLOYS 67-12 M18-83343

COPPER BASE ALLOYS, CRYSTAL DEFECTS
DETERMINATION OF THE STACKING FAULT ENERGY OF ALLOYS BY THE NODE AND TAU3 METHODS 67-06 M13-71664

COPPER BASE ALLOYS, CRYSTAL GROWTH
METASTABLE EVAPORATED THIN FILMS OF CU-AG AND CO-AU ALLOYS. PT. 1. OCCURRENCE AND MORPHOLOGY OF PHASES 67-06 M14-70407
THE EFFECT OF ULTRASOUND ON THE CRYSTALLIZATION OF METALS AND ALLOYS DURING SOLIDIFICATION AND STRUCTURAL VARIATIONS TAKING PLACE IN THE SOLID STATE 67-06 M14-71112
EFFECTS OF COOLING RATE DURING THE SOLIDIFICATION OF SOLID SOLUTIONS ON THE COMPOSITION OF THE AXIAL REGIONS OF DENDRITE BRANCHES 67-09 M14-76888
OBSERVATIONS OF MARTENSITE IN TERNARY CU-ZN BASED BETA-PHASE ALLOYS 67-12 M14-82980

COPPER BASE ALLOYS, CRYSTAL LATTICES
THE UNIQUE FEATURE OF A LOW ANGLE BOUNDARY IN THE CU-ZN SUPERLATTICE 67-01 M13-57488
PRECIPITATION AT SUPERLATTICE DOMAIN BOUNDARIES WITH PARTICULAR REFERENCE TO A COPPER-ALUMINIUM-NICKEL ALLOY 67-01 M14-57477
LATTICE MODULATIONS IN THE CUAU ALLOY 67-01 M14-58751
PERIODIC DISPLACEMENTS OF ATOMS IN CUAU II 67-02 M13-59064
AN X-RAY STUDY OF THE EFFECTS OF NICKEL AND MANGANESE ON THE OCCURRENCE OF STACKING FAULTS IN COPPER-BASE ALLOYS 67-02 M13-60644
THE PARTIAL STRUCTURE FACTORS OF LIQUID CU-SN 67-02 M13-60808
FRICTIONAL WEAR IN FCC METAL SINGLE CRYSTALS 67-02 M14-60142
THE EFFECT OF COHERENT PARTICLES ON THE ANNEALING BEHAVIOR OF A COLD-WORKED CU-2 PER CENT CO ALLOY 67-02 M14-61819
DEFORMATION TWINNING IN AGED CU-4 PER CENT TI ALLOY 67-03 M13-65641
VACANCY CLUSTERS IN CU3AU ALLOY 67-04 M13-66650
METALLURGICAL APPLICATIONS OF A 500 KV ELECTRON MICROSCOPE 67-04 M13-67551
CHANGE IN THE TENDENCY OF PHOSPHORUS-DOPED COPPER TO THE FORMATION OF STACKING FAULTS 67-04 M14-67100
PRECIPITATION IN COPPER-HAFNIUM ALLOYS 67-04 M14-67569
TRANSIENT STORED ENERGY IN COPPER AND COPPER-3.2 AT. PER CENT TIN 67-05 M13-68751
DISLOCATION MOTION AND MULTIPLICATION IN CU ALLOY SINGLE CRYSTALS 67-05 M13-69866
DISLOCATION MULTIPLICATION, VACANCY ACCUMULATION, AND THE ONSET OF JERKY FLOW DURING FORWARD AND REVERSED STRAIN IN CU-3.2 AT. PER CENT SN 67-05 M14-68750
RECOVERY AND RECRYSTALLIZATION OF INTERNALLY OXIDIZED AND COLD ROLLED CU-AL ALLOY 67-05 M14-69863
INVESTIGATION OF SUZUKI ATMOSPHERES IN COPPER-ALUMINUM ALLOYS BY SMALL-ANGLE X-RAY SCATTERING METHOD 67-06 M13-70330
STACKING FAULT DENSITIES IN HEXAGONAL --ZETA PHASE-- COPPER-GERMANIUM ALLOYS 67-06 M13-70899
STACKING FAULT ENERGIES OF THE STRUCTURALLY RELATED CU-GA FCC AND HCP PHASES 67-06 M13-71958
STRUCTURE OF THE PARTIALLY ORDERED STATE OF A3B ALLOYS 67-06 M13-72365
BY-PASSING OF PRECIPITATES BY PRISMATIC CROSS SLIP 67-06 M14-71722
THE STACKING FAULT DENSITY IN SOLID SOLUTIONS BASED ON COPPER, SILVER, NICKEL, ALUMINIUM AND LEAD 67-07 M13-73906
THE NATURE AND FORMATION OF BANDS OF DEFORMATION IN SINGLE CRYSTALS OF ALPHA-PHASE COPPER-ALUMINUM ALLOYS 67-07 M14-73055
THE RECOVERY KINETICS OF DEFORMED COPPER-PALLADIUM AND GOLD-PALLADIUM ALLOYS 67-07 M14-73909
EFFECT OF SPECIMEN SURFACE PREPERATION ON THE ACCURACY OF X-RAY FLUORESCENCE ANALYSIS OF LEADED COPPER ALLOYS 67-09 M13-76676
STABILIZATION OF QUENCHING TETRAHEDRA OF STACKING FAULTS IN COPPER BY MEANS OF ALUMINUM IMPURITY 67-09 M13-76786
EXPERIMENTAL INVESTIGATION OF PRISMATIC CROSS-SLIP OF DISLOCATIONS IN THE VICINITY OF COHERENT, STRAINED PRECIPITATIONS 67-09 M13-77931
THE ARRANGEMENT AND DISTRIBUTION OF DISLOCATIONS IN DEFORMED CU-AL SINGLE CRYSTALS 67-09 M13-77990
DISLOCATION DENSITIES IN DEFORMED CU-AL SINGLE CRYSTALS 67-09 M13-77991
ROLLING AND ANNEALING TEXTURES IN CU-BE ALLOYS 67-09 M13-78206
THE EFFECT OF CONCENTRATION UPON HELIUM PRECIPITATION IN IRRADIATED COPPER-BORON ALLOYS 67-10 M13-79589
THE MECHANISM OF DEFORMATION OF THE ORDERED CUAU ALLOY 67-10 M14-79005
ORDER-DISORDER PHENOMENA AND SOLID SOLUTIONS 67-11 M14-81110
AN X-RAY DIFFRACTION STUDY OF POLYCRYSTALLINE BRASS DEFORMED IN TENSION 67-12 M13-82736

COPPER BASE ALLOYS, CUTTING
ARC POWER SUPPLY FOR PLASMA-ARC CUTTING OF METALS 67-04 M11-67018
A POWER SOURCE FOR PLASMA ARC CUTTING 67-08 M11-74777

COPPER BASE ALLOYS, DIFFUSION
DIFFUSION IN HETEROGENEOUS SOLIDS AND CALCULATION OF THE CONCENTRATION DISTRIBUTION OF ALLOYS 67-01 M14-57344
INTER-DIFFUSION IN DILUTE CU-S, CU-SE AND CU-TE LIQUID COPPER BASE ALLOYS 67-01 M14-58747
REACTION DIFFUSION IN BINARY ALLOY-GAS SYSTEMS. PT. 3. SULPHIDING OF COPPER-ALUMINIUM AND COPPER-MANGANESE ALLOYS 67-02 M14-61180
SUPERPOSITION OF THE EFFECTS OF THE FORMATION OF DIFFUSIONAL POROSITY DURING SELF-DIFFUSION AND

HETERODIFFUSION 67-02 M14-62079
STUDY OF MUTUAL DIFFUSION IN BINARY SYSTEMS FORMING A CONTINUOUS SERIES OF SOLID SOLUTIONS, BY LOCAL X-RAY SPECTRAL ANALYSIS. PT. 1 67-04 M14-67915
DIFFUSION OF THE SOLVENT AND THE SOLUTE IN DILUTE ALLOYS OF FACE CENTERED CUBIC METALS 67-05 M14-68287
DIFFUSION SCATTERING AND SHORT-RANGE ORDER IN ALPHA-CUAL ALLOYS 67-05 M14-69240
DIFFUSION OF COBALT IN CU3AU ALLOY 67-07 M14-73313
INVESTIGATION OF THE KIRKENDALL EFFECT IN THE IRON-COPPER SYSTEM 67-07 M14-73472
STRESS-INDUCED SOLUTE DIFFUSION ALONG DISLOCATIONS IN DILUTE COPPER ALLOYS 67-07 M14-73911
EFFECTS OF ORDER-DISORDER PHASE TRANSITION ON INTERDIFFUSION IN GOLD-COPPER ALLOYS 67-09 M14-76952
ELECTRODIFFUSION IN DILUTE COPPER ALLOYS 67-10 M15-79115

COPPER BASE ALLOYS, DISLOCATIONS
STRENGTHENING MECHANISMS OF ORDERING ALLOYS. PT. 2 67-01 M13-57348
ON THE DISLOCATION STRUCTURES FORMED DURING THERMOMECHANICAL TREATMENT OF ALLOYS WITH LOW DEFECT STACKING ENERGIES 67-02 M13-60298
ELECTRON MICROSCOPE ANALYSIS OF THE DISLOCATION STRUCTURE OF THE ALLOY CU PLUS 17.3 AT . PER CENT AL IN THE RANGE OF THE HIGH-TEMPERATURE TENSILE STRENGTH ANOMALY 67-05 M13-68846

COPPER BASE ALLOYS, ELECTRICAL PROPERTIES.
EFFECT OF PLASTIC DEFORMATION ON THE ELECTRICAL RESISTIVITY OF NICKEL ALLOYS WITH COPPER 67-01 M15-57662
THE COPPER-NICKEL RESISTANCE ALLOYS KONSTANTAN AND NICKELIN 67-04 M16-66633
ALLOYS FOR COMMUTATORS OF ELECTRIC MACHINES 67-04 M20-66037
THE RELATION BETWEEN DAMPING BEHAVIOR AND CONSTITUTION OF QUENCHED ALUMINIUM-COPPER-MAGNESIUM-SILICON ALLOYS 67-05 M15-68694
CHROMIUM COPPER-182 --HEAT TREATABLE CORROSION RESISTANT ALLOY-- 67-06 M01-71457
LOW-ALLOY HEAT PROOF COPPER ALLOYS WITH HIGH ELECTRICAL CONDUCTIVITY 67-06 M15-69986
DYNAMIC EFFECT OF PLASTIC DEFORMATION IN COPPER AND ITS ALLOYS 67-06 M15-70300
CONDUCTIVITY AND HALL CONSTANT. PT. 35. ON THE INFLUENCE OF VALENCY OF BETA-METALS ON THE CHANGE OF ELECTRICAL PROPERTIES BY SHORT RANGE ORDER IN TERNARY COPPER AND SILVER BASE ALPHA-SOLID SOLUTIONS 67-06 M15-71720
SOME REMARKSO CONDUCTIVITY AND HALL CONSTANT 67-06 M16-71864
VARIATION OF THE LOW-TEMPERATURE RESISTIVITY IN DILUTE MAGNETIC ALLOYS 67-07 M15-73524
THE EFFECT OF PLASTIC DEFORMATION ON THE RESISTIVITY AND HALL EFFECT OF COPPER-PALLADIUM AND GOLD-PALLADIUM ALLOYS 67-07 M15-73907
EFFECTS OF THE DEFORMATION OF NI-CU SYSTEM ALLOYS ON THEIR THERMAL EMF 67-09 M15-77071
CHARACTERISTICS OF CU-W-CO AND CU-WC-CO CONTACT ALLOYS FOR HEAVY CURRENT APPLICATIONS 67-09 M15-78226
THE HEATING AND ELECTRICAL LOAD-CARRYING CAPACITY OF OVERHEAD CONDUCTORS FOR RAILROADS 67-11 M15-80799

COPPER BASE ALLOYS, ELECTRODES
ELECTROCHEMICAL STUDIES ON COPPER ALLOYS IN STAGNANT AND MOVING 3 PER CENT NACL AQUEOUS SOLUTIONS CONTAINING HYDROGEN SULFIDE 67-01 M18-58334
CU-CR ALLOYS FOR RESISTANCE WELDING ELECTRODES 67-02 M11-58998
CU-CR-ZR ALLOYS FOR WELDING ELECTRODES 67-02 M11-60213

COPPER BASE ALLOYS, ETCHING
THE THERMAL ETCHING FIGURES OF METAL MICROSECTIONS 67-05 M13-68250

COPPER BASE ALLOYS, EXTRUSION
DETERMINING THE HIGHEST DEGREE OF DEFORMATION DURING REDUCTION OF HOLLOW CYLINDRICAL BILLETS IN A TAPERED DIE 67-04 M08-67040
RESEARCH ON A BACKWARDS CUP-EXTRUSION PRESS 67-08 M07-76300

COPPER BASE ALLOYS, FERMI SURFACE
POSITRON ANNIHILATION IN COPPER-ALUMINIUM ALLOY 67-04 M16-67483

COPPER BASE ALLOYS, FORMING
MATERIAL ASPECTS OF HIGH ENERGY RATE DEFORMATION AT AMBIENT AND ELEVATED TEMPERATURES 67-05 M17-69743
THE PHOTOFABRICATION OF THIN METAL PARTS 67-09 M08-76494

COPPER BASE ALLOYS, HARDENING
SUBSTITUTIONAL SOLUTION HARDENING OF COPPER 67-04 M14-66073
EFFECT OF SMALL ADDITIONS OF PHOSPHORUS ON THE STRENGTHENING AND STACKING FAULT DENSITY OF COPPER-ALUMINIUM ALLOYS 67-05 M14-68253
AGE-HARDENING OF CU-4 PER CENT TI ALLOY DUE TO MODULATED STRUCTURE 67-07 M14-72411

COPPER BASE ALLOYS, HEAT TREATMENT
STRENGTHENING THE ALLOY BRCR BY DEFORMATION IN THE DISPERSION-HARDENING RANGE 67-01 M10-57350
CHARACTERISTICS OF PRECIPITATION IN COPPER-ZIRCONIUM ALLOYS CONTAINING FROM 0.003-0..26 PER CENT ZR 67-01 M20-58370
HEAT TREATMENT OF COPPER--BERYLLIUM ALLOYS 67-02 M10-59831
THE EFFECTS OF ADDITIONAL ELEMENTS ON DISCONTINUOUS PRECIPITATION IN COPPER-BERYLLIUM ALLOYS 67-02 M14-59128
ON REVERSION PHENOMENA OF CU-CR ALLOYS 67-02 M14-59985
ON THE MECHANISM OF PRECIPITATION IN CU-2 WT PER CENT BE ALLOY 67-02 M14-60157
THE PROCESS OF PRECIPITATION IN CU-BE 25 ALLOY 67-02 M14-60270
HEAT TREATMENT OF CU-CR AND CU-CO-SI ALLOYS 67-05 M10-68457
OPTIMUM CONDITIONS FOR TEMPERING BR. NBT ELECTRODE ALLOY 67-05 M10-68974
AGING CU ALLOYS CONTAINING SMALL AMOUNTS OF TI AND AL 67-05 M10-68975
HEAT TREATMENT OF WROUGHT COPPER ALLOYS 67-06 M10-71908
HEAT TREATMENT OF NONFERROUS ALLOYS 67-06 M10-71935
EQUIPMENT FOR THERMAL TREATMENT OF NONFERROUS METAL STRIP IN THE FORM OF A CONTINUOUS STRAND 67-06 M10-71941
USER IDEAS ON THE DESIGN OF HEAT TREATMENT FURNACES FOR NONFERROUS METALS 67-06 M10-71943
STUDY OF THE DECOMPOSITION OF SUPERSATURATED SOLID SOLUTIONS BY THE NUCLEAR MAGNETIC RESONANCE METHOD 67-08 M14-74336
HOT REMOVAL OF ALUMINUM FROM CUPRO-ALUMINUMS--A CASE STUDY 67-09 M10-77396
DIRECT OBSERVATION OF PRECIPITATION IN A CU-2.3 PER CENT FE 67-11 M10-80949
ELECTRON MICROSCOPIC INVESTIGATIONS OF PRECIPITATION IN AGE HARDENABLE SILVER-COPPER ALLOYS 67-11 M14-80376
STRENGTHENING OF ANNEALED CUPRONICKELS BY CHROMIUM 67-12 M10-83057
A RESISTOMETRIC STUDY OF THE INITIAL AGING BEHAVIOR OF QUENCHED COPPER-BERYLLIUM ALLOYS 67-12 M10-83067
THE PRECIPITATION HARDENING OF A CU-NI-SN ALLOY 67-12 M14-83146

COPPER BASE ALLOYS, JOINING
THE NICKEL SILVERS 67-10 M11-78874

COPPER BASE ALLOYS, MACHINING
WHERE OFFHAND DOESNT MEAN CARELESS 67-02 M08-61133
THE GERMAN SILVERS 67-06 M01-72063
TEMPERATURE KEY TO MACHINING 67-08 M08-75530
THERMAL COEFFICIENTS AS A MACHINABILITY INDEX 67-11 M08-80539
MACHINING--NEW TRENDS IN OLD TECHNIQUES 67-12 M08-83134

COPPER BASE ALLOYS, MAGNETIC PROPERTIES
PERMANENT MAGNET CAPABLE OF COLD WORKING 67-01 M20-57518
SOME MAGNETIC PROPERTIES OF DILUTED CU-CO ALLOYS 67-02 M15-61037
NUCLEAR MAGNETIC RESONANCE IN DILUTE COPPER MANGANESE ALLOY 67-02 M16-59476
IRRADIATION OF HEUSLER ALLOYS 67-02 M16-61116
A MAGNETIC SUSCEPTIBILITY APPARATUS FOR WEAKLY MAGNETIC METALS, AND THE SUSCEPTIBILITY OF PURE COPPER IN THE RANGE 6-300 K 67-03 M15-65737
MAGNETIC PROPERTIES OF DILUTE COPPER-MANGANESE ALLOYS 67-05 M15-68847
CONTRIBUTION TO THE KNOWLEDGE OF THE PHYSICAL

COPPER BASE ALLOYS

PROPERTIES OF CU-MN SOLID SOLUTIONS AS DEPENDENT ON PRIOR THERMAL AND MECHANICAL TREATMENTS 67-05 M15-69844
ELASTORESISTANCE EFFECT IN THIN FILMS OF CU-NI 67-06 M15-71546
ELECTRON SPIN RESONANCE AND MAGNETIC ORDERING IN CU-MN ALLOYS 67-06 M15-71999
ON THE CHANGE OF ELECTRICAL PROPERTIES CAUSED BY SHORT RANGE ORDER IN THE ALPHA-SOLID SOLUTIONS WITH GOLD-SILVER- OR COPPER-BASE ALLOYS CONTAINING MANGANESE 67-07 M15-73852
FURTHER EVIDENCE OF NAGAOKAS BOUND STATE FOR CONDUCTION ELECTRONS IN DILUTE ALLOYS 67-08 M15-75925
EFFECTIVE FIELDS IN DILUTE ALLOYS OF MN IN CU AND AU 67-11 M15-80188
MAGNETIC SUSCEPTIBILITY OF VERY DILUTE CU-FE AND AU-FE ALLOYS IN THE RANGE 6 TO 300 K 67-11 M15-81668

COPPER BASE ALLOYS, MECHANICAL PROPERTIES
INVESTIGATION OF THE MECHANICAL PROPERTIES AND RELAXATION RESISTANCE OF COPPER-TITANIUM ALLOYS 67-01 M17-57313
NEW FRICTION COPPER ALLOYS. CU-PRO-ANTIMONY 67-01 M17-57402
TENSILE TESTING OF ALLOYS IN THE MELTING TEMPERATURE RANGE 67-01 M17-57465
ON THE CRITICAL RESOLVED SHEAR STRESS OF SOLID SOLUTIONS CONTAINING COHERENT PRECIPITATES 67-01 M17-57573
THE STUDY OF THERMAL FATIGUE OF BEARING METALS LINING ON STEEL PLATES 67-01 M17-57588
TEMPERATURE DEPENDENCE OF HIGH-TEMPERATURE VACUUM TENSILE-FATIGUE LIFE AND DEFORMATION IN COPPER 67-02 M17-60145
THE EFFECTS OF CADMIUM ADDITION ON MECHANICAL PROPERTIES OF PB-0.06 PER CENT CU ALLOY 67-02 M17-60263
ON THE DUCTILITY CRITERION IN PRESSURE DEFORMATION OF METALS 67-02 M17-60735
EMBRITTLEMENT OF ABTYPE ORDERING ALLOYS WITH AN FCC LATTICE 67-02 M17-61933
EFFECT OF SHORT-RANGE ORDER ON THE MECHANICAL PROPERTIES OF SOLID SOLUTIONS 67-02 M17-61940
EFFECT OF THE CONDITIONS OF MELTING AND ANNEALING ON THE TRANSITION OF METALLIC COMPOUNDS FROM BRITTLE STATE INTO DUCTILE 67-03 M17-65789
GERMAN SILVERS IN THE FIRST AND SECOND CATEGORIES. PT. 3 AND 4 67-04 M01-66667
ALLOY HARDENING IN ALPHA CU-AL SINGLE CRYSTALS AT LOW TEMPERATURES 67-04 M14-66271
ANTIFRICTION PROPERTIES AND WEAR RESISTANCE OF BRONZE, PIG IRON AND GRAPHITIC STEEL 67-04 M17-66017
RELATIONSHIP BETWEEN STRENGTH AND STRUCTURE IN DEFORMATION AT ELEVATED TEMPERATURES 67-04 M17-66042
THE EFFECT OF GRAIN BOUNDARY PENETRATION ON THE DELAYED FAILURE OF CU-2 PER CENT BE 67-04 M17-66921
ON THE MECHANICAL PROPEPTIES OF DISPERSION STRENGTHENED CU-AL203 ALLOYS 67-04 M17-67570
PLASTIC TORSION 67-04 M17-67611
CONCENTRATION DEPENDENCE OF THE STRENGTH OF CU-AL SOLID SOLUTIONS 67-04 M17-67644
THE INFLUENCE OF ALUMINIUM AND IRON ADDITIONS ON COPPER-MANGANESE-ZINC ALLOYS 67-05 M01-68496
STRESS-STRAIN ANALYSIS OF METAL CRYSTALS BY THE DIVERGENT X-RAY BEAM METHOD 67-05 M17-68524
NEW WORK ON THE X-RAY DETERMINATION OF STRESSES AND INTERNAL DEFORMATION 67-05 M17-68526
SPECIAL FEATURES OF THE EFFICIENCY OF POWDERED METAL ANTIFRICTION COMPOSITES EXPOSED TO DRY AND LIQUID FRICTION 67-05 M17-69050
INFLUENCE OF THE PERIODIC ANTI-PHASE DOMAIN STRUCTURE ON THE MECHANICAL PROPERTIES OF COPPER-PALLADIUM ALLOYS 67-05 M17-69384
STUDY OF THE INTERACTION OF DISLOCATIONS WITH IMPURITY ATOMS IN CU-MG ALLOYS 67-05 M17-69654
CONCENTRATION DEPENDENCE OF THE LINEAR CREEP LIMIT OF CU-NI ALLOYS 67-05 M17-69667
TESTING MATERIAL IN BIAXIAL TENSION 67-05 M17-69739
ON THE CHANGE OF INTERNAL FRICTION DURING THE HIGH-TEMPERATURE AGING OF CU-FE ALLOYS 67-05 M17-69859
FATIGUE FRACTURE IN COPPER AND THE CU-8WT. PER CENT AL ALLOY AT LOW TEMPERATURE 67-06 M17-69947
DEFORMATION OF SINGLE CRYSTALS OF AGING CU-NI-CO ALLOYS IN VARIOUS STRUCTURAL STATES 67-06 M17-69994
THE NATURE OF THE TEMPERATURE ZONE OF BRITTLENESS IN HEAT RESISTANT ALLOYS OF THE COPPER-NICKEL-BERYLLIUM SYSTEM 67-06 M17-70172
A BRONZE ALLOY FOR ELECTRIC TRAIN SLIP RING COMPONENTS 67-06 M17-70349
METHOD OF TESTING ALLOYS IN TENSION IN THE SOLIDUS-LIQUIDUS RANGE 67-06 M17-70753
ON THE EMBRITTLEMENT OF CHROMIUM COPPER DURING TEMPERING 67-06 M17-70783
EFFECTS OF COMPOSITION AND STRUCTURE ON IMPINGEMENT RESISTANCE OF 70/30 CUPRO-NICKEL 67-06 M17-70877
THE YIELD POINT OF ALPHA-COPPER-TIN ALLOYS 67-06 M17-70991
ELECTRON MICROPROBE STUDY OF THE EFFECT OF ABRASION OF THE SURFACE OF ALLOY CRYSTALS 67-06 M17-71031
STRESS STRAIN RELATIONSHIP IN COMPRESSION TESTING OF PURE METALS AND DUCTILE ALLOYS 67-06 M17-71114
GRAIN-SIZE DEPENDENCE OF FRACTURE IN COPPER-ALUMINIUM ALLOYS EMBRITTLED BY MERCURY 67-06 M17-71542
MEASUREMENT AND SIGNIFICANCE OF THE SPRING BACK OF METAL WIRES 67-06 M17-71592
FATIGUE-CRACK GROWTH IN SOME COPPER-BASE ALLOYS 67-06 M17-71604
WORK HARDENING DATA OF ALPHA-COPPER-TIN-ALLOYS 67-06 M17-71658
THE INCREASE OF CRITICAL SHEAR STRESS DUE TO THE MIGRATION OF DISLOCATIONS THROUGH PARTICLES WITH SYMMETRICAL STRESS FIELD 67-06 M17-71721
MECHANICAL CHARACTERISTICS OF CERTAIN COPPER ALLOYS CAST AT VERY LOW TEMPERATURES 67-06 M17-72152
THE TENSILE DEFORMATION OF OVERAGED COPPER-1.8 WT. PER CENT BERYLLIUM SINGLE CRYSTALS 67-06 M17-72230
INFLUENCE OF CONDUCTION ELECTRONS ON THE LATTICE SPECIFIC HEAT AND ELASTIC MODULI OF ALPHA-PHASE ALLOYS OF THE NOBLE METALS 67-07 M16-73940
THE STRENGTH OF CU-AU SOLID SOLUTIONS WITH DIFFERENT CONCENTRATION DISTRIBUTIONS 67-07 M17-72518
THE FATIGUE OF CU-NI-FE ALLOYS 67-07 M17-73921
MALLORY 22 --HIGH CONDUCTIVITY COPPER ALLOY-- 67-08 M01-75686
RECORDING EQUIPMENT FOR MEASUREMENTS OF INTERNAL FRICTION AND ELASTIC MODULUS OF METALS AT LOW FREQUENCIES 67-08 M17-74424
BRITTLENESS IN COPPER AND COPPER ALLOYS WITH PARTICULAR REFERENCE TO HYDROGEN EMBRITTLEMENT 67-08 M17-74505
INCREASING THE STRENGTH OF CONDUCTORS MADE OF COPPER ALLOYS 67-08 M17-74862
PROBLEMS ASSOCIATED WITH USE OF COPPER-ALLOY CASTINGS IN MARINE SERVICE 67-08 M17-74901
THE CAUSES OF THE FORMATION OF CRACKS IN THE MNA-13-3 COPPER-BASE ALLOY 67-08 M17-74996
SOME PROPERTIES OF COPPER-RICH COPPER-HAFNIUM ALLOYS 67-08 M17-75754
LOW-TEMPERATURE --295 TO 4K.-- MECHANICAL PROPERTIES OF SELECTED COPPER ALLOYS 67-08 M17-76146
BERYLCO 717C --HEAT TREATABLE COPPER ALLOY-- 67-09 M01-76529
NEW ALLOYS FOR ELECTRODES OF RESISTANCE WELDING MACHINES 67-09 M11-77608
DYNAMIC STRAIN AGING OF ALPHA-COPPER-TIN-ALLOYS 67-09 M17-76792
PLASTIC YIELD IN SOME COPPER-BERYLLIUM ALLOYS 67-09 M17-76901
TEMPERATURE DEPENDENCE OF HIGH-TEMPERATURE VACUUM TENSILE-FATIGUE LIFE AND DEFORMATION IN CU-AL ALLOY WITH 9 PER CENT AL 67-09 M17-77576
MICROPLASTICITY IN A CU 1.9 WT PER CENT BE PRECIPITATION-HARDENING ALLOY 67-09 M17-77729
THE EFFECT OF SPECIMEN SIZE ON THE TENSILE STRENGTH OF PLASTIC COPPER ALLOYS 67-10 M17-78708
FATIGUE HARDENING OF CU-ZN ALLOYS 67-10 M17-79017
MECHANICAL PROPERTIES OF 87/7/3/3 GUNMETAL WITH

LEAD AND NICKEL ADDITIONS 67-10 M17-79935
YIELD POINT PHENOMENA IN NONFERROUS METALS 67-11 M17-80343
THE AGING BEHAVIOR OF CU-4WT PER CENT TI ALLOY 67-11 M17-81060
THE MECHANISMS OF TERTIARY CREEP IN FACE CENTERED CUBIC METALS 67-11 M17-81267
CREEP OF ALLOYS OF THE NICKEL-COPPER SYSTEM AT DIFFERENT TEMPERATURE AND STRESSES 67-11 M17-81423
X-RAY LINE BROADENING AND RESIDUAL STRESS STUDIES OF COMPOSITE MATERIALS 67-12 M17-81820
ON THE EMBRITTLING PHENOMENON OF COPPER ALLOYS DURING ANNEALING. PT. 4. EMBRITTLEMENT OF CHROMIUM COPPER DURING TEMPERING 67-12 M17-82133
FRACTURE OF COPPER ALLOYS TESTED IN MERCURY SALT SOLUTIONS 67-12 M17-82438
THE COFFIN-MANSON LAW IN RELATION TO SLIP CHARACTER 67-12 M17-82735
MECHANICAL PROPERTIES OF THE BR. NBT ALLOY AT DIFFERENT TEMPERATURES 67-12 M17-83098
DEFORMATION AND CONTROLLED ANNEALING OF U-S3M --CU-3 PER CENT SI-1 PER CENT MN-- ALLOY SHEET 67-12 M17-83501

COPPER BASE ALLOYS, MELTING
INFLUENCES OF THE ADDITIONAL ELEMENTS ON SOME PROPERTIES OF HIGH-ZIRCONIUM CU ZR ALLOYS 67-09 M01-77249
PRODUCTION OF TRANSITION CU-MN-FE ALLOYS ASSISTED BY FERROMANGANESE 67-11 M03-81613
THE INFLUENCE OF INDUCTION MELTING ON THE METALLURGY AND THE PRODUCTION CAPACITY OF THE FOUNDRY 67-11 M06-80369

COPPER BASE ALLOYS, METAL WORKING
DEEP DRAWING OF COPPER AND COPPER ALLOYS 67-01 M07-58676
QUALITY CONSIDERATIONS IN THE MANUFACTURE OF WROUGHT NON-FERROUS --COPPER AND COPPER ALLOY-- PRODUCTS 67-01 M19-58789
MEASUREMENT OF TENSION IN FINE WIRE DRAWING 67-02 M07-59008
EXPERIMENTAL DETERMINATION OF FORCES IN A THREE-LINE TUBE MILL 67-04 M07-66977
THE DEEP DRAW TESTING OF SHEET METAL 67-06 M08-71564
THE FINE BALNKING PROCESS 67-08 M08-76194
STUDY OF WARM WORKING. PT. 3. WARM DRAWING OF COPPER ALLOYS 67-09 M07-78251

COPPER BASE ALLOYS, METALLOGRAPHY
ETCHING OF COPPER AND ITS ALLOYS 67-03 M13-65041

COPPER BASE ALLOYS, MICROSCOPY
METALLURGICAL INVESTIGATIONS WITH A 500 KV ELECTRON MICROSCOPE 67-06 M14-71545

COPPER BASE ALLOYS, MICROSTRUCTURE
EFFECT OF PARTICLES IN CU-3.23 WT PER CENT CO ALLOY ON THE ANNEALING BEHAVIOR AFTER HEAVY ROLLING 67-01 M14-57415
INVESTIGATION OF AGING OF CU-AL-TI ALLOYS 67-02 M10-60549
CONCENTRATION INHOMOGENEITIES IN DEFORMED COPPER-ALUMINIUM AND COPPER-BERYLLIUM ALLOYS 67-02 M13-61684
GRAIN-BOUNDARY SLIDING IN METALS 67-02 M13-61780
CHEMICAL MICROHETEROGENEITY OF CAST ALLOYS IN RELATION TO COOLING RATE 67-02 M13-62159
IDENTIFICATION AND MORPHOLOGY OF OXIDE PARTICLES IN INTERNALLY OXIDIZED CU-MN ALLOYS 67-03 M14-65215
CHEMICAL MICROHETEROGENEITY IN CAST ALLOYS AS RELATED TO THE COOLING RATE 67-04 M13-67166
THE COLD WORKING AND SOFTENING OF COPPER ALLOYS 67-04 M17-66152
THE CONTRAST ON ELECTRON MICROGRAPHS CAUSED BY SPACED EDGE DISLOCATION MULTI-POLES 67-05 M13-68291
PRECIPITATION AND AGE HARDENING BEHAVIOR OF CU-NI-AL ALLOYS 67-05 M14-68581
STUDY OF THE DECOMPOSITION OF SUPERSATURATED CU-ZR SOLID SOLUTION BY THE NUCLEAR MAGNETIC RESONANCE METHOD 67-06 M14-72369
INFLUENCE OF COOLING RATE DURING ALLOY SOLIDIFICATION ON THE SEGREGATION OF SOLUBLE IMPURITIES 67-08 M13-74760
INDUSTRIAL APPLICATIONS OF ELECTRON METALLOGRAPHY. PT. 2 67-10 M13-78744
CRYSTALLOGRAPHIC ETCH FIGURES FROM THERMAL ETCHING 67-10 M13-79354
REMARKS ON THE STRUCTURE OF MARTENSITES IN CU-AL ALLOYS 67-11 M13-81269
DIRECT OBSERVATION OF THE STACKING ORDER IN BETA1 PRIME CU-AL MARTENSITE 67-11 M13-81270
X-RAY AND ELECTRON MICROSCOPY STUDY OF PREPRECIPITATION PHENOMENA IN CU-RICH TI ALLOYS 67-12 M13-83151

COPPER BASE ALLOYS, MOLDS
MOLDS FOR BLOW MOLDING 67-06 M06-70032

COPPER BASE ALLOYS, OPTICAL PROPERTIES
LUMINESCENCE OF POWDER METAL ALLOYS 67-04 M09-66258
COEFFICIENTS OF BRIGHTNESS OF SINTERED ALLOYS 67-10 M09-78990
OPTICAL PROPERTIES OF THE BETA- PHASE ALLOYS, AUZN, CUZN AND PDIN 67-11 M15-80324

COPPER BASE ALLOYS, ORDER DISORDER
ATOMIC ORDERING--SHORT-RANGE ORDER IN ALLOYS 67-05 M14-69725
ON THE KINETICS OF SHORT-RANGE ORDERING IN AUAG --50, 50-- AND CUAL --85, 15-- 67-05 M14-69776

COPPER BASE ALLOYS, OXIDATION
THE FORMATION OF SCALE ON IRON-COPPER AND IRON-COBALT ALLOYS HEATED IN AIR 67-05 M18-69256
OXIDATION OF COPPER AND COPPER-GOLD ALLOYS IN CO2 AT 1000 C. PT. 1. LINEAR KINETICS 67-09 M18-77889

COPPER BASE ALLOYS, PHASE TRANSFORMATIONS
MARTENSITE IN TERNARY CU-ZN-BASED BETA-PHASE ALLOYS 67-03 M14-65079
THE INFLUENCE OF TEMPERATURE AND ANNEALING TIME ON MAGNETIC PROPERTIES OF DILUTED ALLOYS CO-CU 67-03 M14-65444
METASTABILITY OF STRUCTURAL FORMS OF COPPER-PLATINUM ALLOYS NEAR THE STOICHIOMETRIC COMPOSITION CU3PT 67-05 M14-69226
THE NUCLEATION OF MILITARY TRANSFORMATIONS 67-05 M14-69728
EXPERIMENTAL OBSERVATION OF THE INTERMEDIATE MU-PHASE IN CU-AL BETA ALLOYS 67-05 M14-69869
STUDY OF ORDERING IN TERNARY SYSTEM ALLOYS 67-06 M14-70285
METASTABLE EVAPORATED THIN FILMS OF CU-AG AND CO-AU ALLOYS. PT. 2. KINETICS OF THE TRANSFORMATIONS 67-06 M14-70408
STACKING FAULT PROBABILITIES IN COPPER-ALUMINUM MARTENSITE TRANSFORMED IN THIN FOILS 67-07 M14-73984
STRAIN-INDUCED PHASE TRANSFORMATION IN METASTABLE CU-SI SOLID SOLUTIONS 67-08 M14-75968
PEARLITE AND BAINITE FORMATION IN A CU-16.5 AT. PER CENT SN ALLOY 67-09 M14-77592
THE MARTENSITIC TRANSFORMATION OF IRON PRECIPITATES IN A COPPER MATRIX 67-09 M14-77925
ON THE DAMPING MECHANISM OF ELASTIC VIBRATIONS IN PHASE TRANSFORMATIONS IN COPPER AND COBALT-BASE ALLOYS 67-10 M14-80086
ELECTRON-MICROSCOPIC INVESTIGATION OF INITIAL STAGES IN THE DECOMPOSITION OF SUPERSATURATED CU-2 PER CENT BE SOLID SOLUTION 67-11 M14-81045
PHASE SEPARATION IN THE CU-NI-FE SYSTEM., MOSSBAUER EFFECT EVIDENCE AGAINST DECOMPOSITION BY THE SPINOIDAL MECHANISM 67-12 M14-82218

COPPER BASE ALLOYS, PHASES /STATE OF MATTER/
INVESTIGATIONS OF THE KINETICS OF SOLUTION OF PRECIPITATES IN A BINARY ALCU-ALLOY AND THE EFFECT OF ADDITIONS OF MAGNESIUM, MANGANESE, SILICON, ZINC AND IRON 67-01 M14-58223
PRECIPITATION PROCESSES IN A COMMERCIAL COPPER-NICKEL-SILICON ALLOY 67-02 M14-61886
ON THE NATURE OF MASSIVE PHASES IN HYPOEUTECTOID CU-GA ALLOYS 67-06 M14-70404
CRYSTALLOGRAPHIC COMPLEXITIES IN THE AL-CU SYSTEM 67-06 M14-72232
REPLY TO CRYSTALLOGRAPHIC COMPLEXITIES IN THE AL-CU SYSTEM 67-06 M14-72233
REPLY TO COMMENTS ON CRYSTALLOGRAPHIC COMPLEXITIES IN THE AL-CU SYSTEM 67-06 M14-72234
RESEARCH INTO THE PROCESSES OF PRECIPITATION IN SUPERPARAMAGNETIC ALLOYS 67-09 M14-76817
X-RAY DETERMINATION OF CONCENTRATION DISTRIBUTION IN A MULTIPHASE ALLOY 67-10 M13-79908
DIFFUSIONLESS TRANSFORMATION IN THE COPPER-ZINC-ALUMINIUM SYSTEM AND IN THE BETA DOUBLE PRIME-MARTENSITE PHASE 67-10 M14-78691
TRANSMISSION ELECTRON MICROSCOPE STUDY OF THE

COPPER BASE ALLOYS

STRUCTURE OF HIGH TEMPERATURE BETA-PHASE IN CU-SN ALLOY 67-11 M13-80809
THE MORPHOLOGY AND MORPHOLOGICAL STABILITY OF LARGE PRECIPITATES FORMED IN CUZN AND CUZN SN 67-12 M14-82759

COPPER BASE ALLOYS, PHYSICAL PROPERTIES
THE DEPENDENCE OF SOME ELECTRICAL AND MECHANICAL PROPERTIES OF ZIRCONIUM-TREATED COPPER ON THE HEAT TREATMENT 67-05 M15-68205
NUCLEAR-MAGNETIC-RESONANCE AND X-RAY STUDY OF SOLUTE LOSS BY INTERNAL OXIDATION IN COMMINUTED AND VACUUM-ANNEALED CU-MN ALLOYS 67-07 M15-73938
COPPER-ZIRCONIUM ALLOYS 67-08 M01-74953
GASES IN COPPER ALLOYS 67-08 M14-74552
RECENT DEVELOPMENTS IN ELECTRICAL CONDUCTOR MATERIALS. PT. 6 67-08 M20-74954
SOME PROPERTIES OF COPPER HIGH-ZIRCONIUM, HIGH-CHROMIUM ALLOYS 67-09 M01-78210
A SPECIALLY PROCESSED BORON DEOXIDIZED COPPER DEVELOPED FOR ELECTRICAL CONDUCTORS 67-09 M20-76407
EFFECT OF PLASTIC DEFORMATION ON THE ABSOLUTE THERMOPOWER OF ALPHA-BRASS 67-11 M15-80633
A REVIEW OF THE PHYSICAL PROPERTIES OF SOME PRIMARY SOLID SOLUTIONS, AND THEIR INTERPRETATION 67-11 M15-81109
CALCULATING THE VISCOSITIES OF METAL ALLOYS 67-11 M15-81448
X-RAY STUDIES ON THE THERMAL EXPANSION OF COPPER-NICKEL ALLOYS 67-12 M15-81734

COPPER BASE ALLOYS, POWDER METALLURGY
MECHANICAL PARAMETERS OF COPPER-ALUMINUM CERMETS AS FUNCTIONS OF TEMPERATURE 67-02 M09-60583
THE EFFECT OF THE PARTICLE SIZE OF ALUMINUM POWDER ON THE SINTERING OF A CU-AL ALLOY IN THE PRESENCE OF A LIQUID PHASE 67-02 M09-61783
SINTERED METAL PRODUCTS 67-03 M09-65828
INVESTIGATION OF THE COMPACTION OF COPPER-TIN CERMET ALLOYS DURING SINTERING 67-04 M09-66255
PRE-INFILTRATED IRON-COPPER POWDER 67-05 M09-68944
DENSIFICATION DURING THE SINTERING OF COPPER TIN POWDER ALLOYS 67-10 M09-78987

COPPER BASE ALLOYS, PRECIPITATION
SIZE DISTRIBUTION FUNCTION OF PRECIPITATE CO PARTICLES IN CU-1 PER CENT CO SOLID SOLUTION 67-06 M13-71956

COPPER BASE ALLOYS, REACTIONS /CHEMICAL/
INTERNAL OXIDATION OF CU WITH SLIGHT MG ADDITIONS 67-02 M18-60208
ON INTERFACIAL PROPERTIES BETWEEN MOLTEN SILVER, COPPER, NICKEL AND THESE BINARY ALLOYS AND MOLTEN SLAG 67-06 M14-70789
THE INTERNAL OXIDATION OF CU-SI ALLOYS 67-07 M14-73910

COPPER BASE ALLOYS, RECRYSTALLIZATION /METALLURGICAL/
EFFECT OF COLD DEFORMATION ON THE TEMPERATURE OF THE BEGINNING OF RECRYSTALLIZATION OF AGING ALLOYS 67-05 M14-68976
RECRYSTALLIZATION IN ALLOYS AFTER HETEROGENEOUS AGING 67-06 M14-72349

COPPER BASE ALLOYS, REFINING
LIQUATION DURING SINTERING IN THE PRESENCE OF A MOLTEN PHASE WITH INCOMPLETE WETTING OF THE SOLID COMPONENT BY THE MOLTEN PHASE 67-02 M14-59559
INVESTIGATION OF THE RATE OF PYROMETALLURGICAL CU REFINING 67-04 M03-67075
THE SMELTING OF CERTAIN COPPER ALLOYS 67-06 M03-71875

COPPER BASE ALLOYS, SINGLE CRYSTALS
FISSION FRAGMENT DAMAGE TO METALLIC CRYSTALS. PT. 2. ORDERED CU-AU ALLOY 67-12 M16-82545

COPPER BASE ALLOYS, SPECIFICATIONS
INCRAMET 800 --HEAT RESISTANT COPPER ALLOY-- 67-04 M01-66330

COPPER BASE ALLOYS, SUPERCONDUCTIVITY
MAGNETIC INVESTIGATION OF THE SUPERCONDUCTING BEHAVIOR OF SINTERED COMPACTS OF NIOBIUM AND COPPER-NIOBIUM 67-07 M16-73402

COPPER BASE ALLOYS, SURFACE FINISHING
SURFACE APPEARANCE OF COPPER-COBALT-BERYLLIUM STRIP PICKLED AFTER QUENCHING 67-02 M12-61999
PROGRESS IN THE FIELD OF ELECTROLYTIC POLISHING AND DEBURRING 67-09 M12-76700
ELECTROLYTIC POLISHING OF COPPER AND NICKEL SILVER 67-09 M12-77142
CHEMICAL-ENERGY DEBURRING AS APPLIED TO FUNCTIONAL COMPONENTS 67-10 M12-79190

COPPER BASE ALLOYS, SURFACE PROPERTIES
THE KINETICS OF SESSILE-DROP SPREADING IN REACTING METAL-METAL SYSTEMS 67-03 M15-65080
ANTIFRICTION PROPERTIES OF SOME STRUCTURAL MATERIALS 67-05 M17-69015

COPPER BASE ALLOYS, TEMPERATURE MEASURING INSTRUMENTS
QUALITY AND THERMOELECTRIC DEVIATION OF EXISTING THERMOCOUPLES 67-01 M15-57612

COPPER BASE ALLOYS, THERMAL PROPERTIES
THERMODYNAMIC PROPERTIES OF COPPER-PLATINUM ALLOYS 67-03 M15-65098
A SHORT SYNTHESIS OF THE THERMAL CONDUCTIVITY OF SOLID METALS AT ABSOLUTE TEMPERATURES BELOW 500K 67-08 M15-76161
THE THERMAL EXPANSION OF GAMMA PHASE CU-MN ALLOYS AT HIGH TEMPERATURES 67-10 M15-78588
THE ELECTRONIC SPECIFIC HEATS OF ALLOY PHASES BASED ON THE NOBLE METALS 67-11 M15-81115

COPPER BASE ALLOYS, THERMODYNAMICS
NATURE OF THE ANOMALOUS VALUE OF HEAT CAPACITY OF ORDERED ALLOYS IN THE REGION OF TEMPERATURES ABOVE THE ORDER-DISORDER PHASE TRANSITION 67-02 M15-58860
CONCENTRATION DEPENDENCES OF ELASTIC CONSTANTS AND DEBYE TEMPERATURES FOR BINARY ALLOYS 67-07 M15-72404
THE ACTIVITY OF COPPER IN SOLID COPPER-PLATINUM ALLOYS AND SOME OBSERVATIONS ON THE ORDERING OF CU3PT 67-09 M15-77926

COPPER BASE ALLOYS, TRANSFORMATIONS /MATERIALS/
A CINEMATOGRAPHIC STUDY OF THE MASSIVE TRANSFORMATION IN CU-GA ALLOYS 67-06 M14-70403

COPPER BASE ALLOYS, TRANSPORT PROPERTIES
THE INTERPRETATION OF THE HALL EFFECT IN ALLOYS OF COPPER AND SILVER WITH GROUP B METALS 67-01 M15-57489
ORDINARY TRANSPORT PROPERTIES OF THE GAMMA PHASE ALLOYS 67-07 M15-72405

COPPER BASE ALLOYS, VALVES
NEW VALVE TYPES FOR INDUSTRIAL APPLICATIONS. BALL VALVES 67-02 M20-59829

COPPER BASE ALLOYS, WEAR
STUDY OF ATOMIC SEPARATION OF COPPER IN THE ELECTROLYTIC CHROMIUM-BRONZE COUPLE 67-06 M17-70377
ABRASIVE WEAR CAUSED BY GRANULAR MINERAL SOLIDS 67-09 M17-76368

COPPER BASE ALLOYS, WELDING
ROD FOR WELDING GUN METAL. TECHNICAL SPECIFICATIONS FOR PRODUCTION AND DELIVERY 67-01 M11-57994
WELDING OF COPPER AND COPPER ALLOYS IN THE CONSTRUCTION OF VESSELS AND OTHER EQUIPMENT 67-02 M11-59830
WELDING CU AND CU ALLOYS UNDER PROTECTIVE ATMOSPHERES 67-02 M11-61887
HEAT PROPAGATION DURING THE FUSION WELDING OF ALUMINIUM TO COPPER 67-04 M11-67350
QUALITY CONTROL OF ULTRASONIC WELDED JOINTS 67-04 M11-67803
IN-PROCESS QUALITY CONTROL OF ULTRASONIC WELDS IN COPPER SHEET 67-06 M11-70303
ARGON-AIR MIXTURE 67-06 M11-70734
NEW DEVELOPMENTS IN THE WELDING OF COPPER AND COPPER ALLOYS 67-06 M11-71597
WELDING HEAT-RESISTANT CERMET COPPER-BASE ALLOYS WITH CAST COPPER BY THE DYNAMIC PRESSURE METHOD 67-06 M12-70777
WELDING OF COPPER WITH DEEP PENETRATION ELECTRODES 67-08 M11-75360

COPPER BASE ALLOYS, X RAY ANALYSIS
ABSOLUTE X-RAY FLUORESCENT SPECTROSCOPY 67-01 M19-57290
EFFECT OF COOLING RATE DURING ALLOY HARDENING ON SEGREGATION OF SOLUBLE IMPURITIES 67-04 M13-67001
X-RAY K ABSORPTION EDGES OF ALLOYS. PT. 3. COPPER-ZINC AND NICKEL-ZINC SYSTEMS 67-12 M13-83268

COPPER COMPOUNDS, BAND THEORY
BAND STRUCTURE OF A CUPROUS OXIDE CRYSTAL 67-05 M16-68579

COPPER COMPOUNDS, BENEFICIATION
DEVELOPMENT AND DESIGN OF THE MISSION UNIT BY-PRODUCTS PLANT 67-01 M02-58695
CHLORINATING ZINC AND COPPER SILICATES AND FERRITES 67-02 M02-60536

HYDROMETALLURGICAL SEPARATION OF METALLIZED COPPER-NICKEL CONVERTER MATTE 67-02 M03-60565
COPPER COMPOUNDS, BINARY SYSTEMS
INVESTIGATION OF THE PHASE TRANSFORMATION KINETICS IN THE COPPER OXIDE-SILICON OXIDE SYSTEM 67-12 M14-82110
COPPER COMPOUNDS, CHEMICAL ANALYSIS
USE OF THEMAL CONDUCTIVITY GAS ANALYSIS FOR THERMODYNAMIC MEASUREMENTS ON THE DISSOCIATION OF CUO, MN2O3 AND MNO2 67-08 M15-76055
COPPER COMPOUNDS, CRYSTAL GROWTH
ELECTRON DIFFRACTION STUDIES OF THE EPITAXY OF CU SINGLE CRYSTALS. PT. 2. EARLY STAGES OF EPITAXY AND INTERFACIAL DISLOCATION NETWORKS 67-01 M13-57109
PRODUCTION OF CUPROUS OXIDE SINGLE CRYSTALS BY MELT 67-03 M14-65160
COPPER COMPOUNDS, CRYSTAL LATTICES
DISLOCATION MORPHOLOGY IN SHOCK DEFORMED BCC AND FCC METALS AND ALLOYS 67-04 M13-66071
ANALYSIS OF THIN FILMS 67-08 M13-75345
COPPER COMPOUNDS, CRYSTAL STRUCTURE
ELECTRON MICROSCOPIC OBSERVATION OF OXIDES FORMED ON THIN FILM OF COPPER AT ELEVATED TEMPERATURE 67-06 M14-71544
COPPER COMPOUNDS, DIFFUSION
RADIATION-ENHANCED DIFFUSION IN METALS 67-04 M14-67315
COPPER COMPOUNDS, ELECTRICAL PROPERTIES
THE EFFECT OF SILICON ON CUPROUS OXIDE 67-08 M15-74610
FLASH EVAPORATION AND THIN FILMS OF CUPROUS SULFIDE, SELENIDE, AND TELLURIDE 67-11 M15-80123
COPPER COMPOUNDS, MAGNETIC PROPERTIES
MAGNETIC SUSCEPTIBILITY OF CUPROUS OXIDE SINGLE CRYSTALS AT 25 C 67-02 M15-60588
EFFECT OF OXYGEN DEFICIENCY ON THE MAGNETIC PROPERTIES OF COPPER FERRITE 67-04 M15-67484
COPPER COMPOUNDS, MECHANICAL PROPERTIES
EFFECT OF PLASTIC STRAINING ON THE BRITTLENESS THRESHOLD OF METALLIC COMPOUNDS 67-10 M17-79226
COPPER COMPOUNDS, OXIDATION
FREE ENERGY OF FORMATION OF CUPRIC OXIDE 67-03 M18-65421
COPPER COMPOUNDS, PHASES /STATE OF MATTER/
THE MOO3-CUO SYSTEM 67-12 M13-82139
COPPER COMPOUNDS, PHYSICAL PROPERTIES
OPTICAL AND PHOTOCONDUCTIVE PHENOMENA IN CUPROUS OXIDE 67-08 M15-75228
NUCLEAR MAGNETIC RESONANCE STUDIES OF CUCR2SE4 AND CUCR2TE4 67-12 M16-81770
COPPER COMPOUNDS, POWDER METALLURGY
PERMEABILITY TECHNIQUES FOR CHARACTERIZING FINE POWDERS 67-06 M09-71798
COPPER COMPOUNDS, REACTIONS /CHEMICAL/
REACTION OF CUPROUS SULFIDE AND SULFURIC ACID 67-02 M02-58879
THE COPPER SULFAMATE BATH 67-08 M12-75502
THE KINETICS AND MECHANISM OF FLUORINATION OF COPPER OXIDE. PT. 2. THE REACTION OF FLUORINE WITH COPPER --I-- OXIDE 67-09 M14-76599
DECOMPOSITION OF COPPER, ZINC AND IRON FERRITES DURING THEIR REACTION WITH MATTE 67-10 M14-80046
COPPER COMPOUNDS, TRANSPORT PROPERTIES
HIGH TEMPERATURE HALL EFFECT IN CUPROUS OXIDE 67-05 M16-69091
NEUTRON DIFFRACTION AND ELECTRICAL TRANSPORT PROPERTIES OF CUCR2SE4 67-09 M16-77013
COPPER CONVERTERS
PROCESSING URALS COPPER-ZINC CONCENTRATES IN CONVERTERS 67-02 M03-59548
SMELTING MIXED COPPER FEED IN CHILE 67-03 M03-65466
DISINTEGRATION OF MAGNESIA REFRACTORIES IN CONVERTER MELTING OF COPPER 67-03 M05-65301
EXPERIMENTAL APPLICATION OF OXYGEN ADDITION IN THE COPPER CONVERTER OF NORTH GERMAN REFINERY 67-05 M03-69119
MELTING GRANULATED HIGH-SILICON COPPER CONCENTRATE IN A CONVERTER WITH OXYGEN-ENRICHED BLAST 67-05 M03-69529
THE ONAHAMA COPPER SMELTER.. HOW JAPANS NEW COPPER SMELTER TREATS KUROKO AND OTHER ORES 67-07 M03-73213
METALLOTHERMIC REDUCTION OF OXIDES IN WATER-COOLED COPPER FURNACES 67-12 M03-82743
COPPER NICKEL CONVERTERS
SEE COPPER CONVERTERS
COPPER ORES
SEE ALSO CHALCOPYRITE
COPPER ORES, BENEFICIATION
CYANIDE-FREE FLOTATION OF COPPER-ZINC ORES 67-01 M02-57267
DEVELOPMENT AND DESIGN OF THE MISSION UNIT BY-PRODUCTS PLANT 67-01 M02-58695
BACTERIAL METHOD OF INTENSIFYING UNDERGROUND LEACHING OF SULFIDE ORES 67-01 M03-58067
COMPUTER CONTROL IMPROVES METALLURGY AT TENNESSEE COPPERS FLOTATION PLANT 67-02 M02-59496
METHODS OF IMPROVING FLOTATION TECHNIQUES OF FINELY IMPREGNATED COPPER-ZINC ORES 67-02 M02-59854
ACTION OF GAMMA-RADIATION ON THE FLOTATION PROPERTIES OF REAGENT-COLLECTORS OF THE ANION TYPE 67-02 M02-61603
TESTING A METHOD OF GRANULATING SULFIDIC CHARGES WITH LIMESTONE AND SULFURIC ACID 67-02 M02-61610
SEMIPILOT PLANT RESEARCH ON PRODUCTION OF COPPER POWDER 67-02 M03-58934
PROCESSING URALS COPPER-ZINC CONCENTRATES IN CONVERTERS 67-02 M03-59548
THERMODYNAMIC ANALYSIS OF CERTAIN REACTIONS IN CONVERTER BLOWING OF COPPER MATTES WITH FLUXES MIXED WITH LIMESTONE 67-02 M03-60080
RECENT DEVELOPMENTS IN PRESSURE-HYDROMETALLURGY 67-02 M03-61299
BIG FLOTATION COLUMN MILL TESTED 67-03 M02-65403
RATE OF SOLUBILITY OF CHRYSOCOLLA AND MALACHITE DURING AGITATIONAL SULFURIC ACID LEACHING 67-03 M03-65575
NONFERROUS METALS AND THE CHEMICAL ENGINEER. PT. 3. COPPER 67-04 M02-66587
MECHANISM OF SULFITE COMPLEXES OF IRON IN FLOTATION 67-04 M02-66653
LEACHING ROASTED ZN-CU-PB CONCENTRATES WITH SULFURIC ACID UNDER PRESSURE 67-04 M02-67857
SEPARATE CIRCUIT FLOTATION OF COPPER AND COPPER-ZINC ORES AFTER AUTOGENOUS GRINDING 67-05 M02-68770
SEPARATION OF LEAD-COPPER CONCENTRATES BY THE SULFITE METHOD 67-05 M02-69266
COMPLEX USE OF SULFIDE COPPER ORE DURING CONCENTRATION 67-06 M02-71341
DIRECT ACID PRESSURE LEACHING OF CHALCOCITE CONCENTRATE 67-06 M03-72075
COPPER PRECIPITATION METHODS AT WEED HEIGHTS 67-07 M03-73093
SEPARATION OF NONFERROUS METAL SULFIDES BY USING NA2S2O3 67-08 M02-74861
COMMERCIAL INVESTIGATIONS OF THE CONCENTRATING CAPACITY OF COPPER ORE FROM THE ELATSITE DEPOSITS AT ENTROPOLOSKO 67-09 M02-76718
METHOD OF ROASTING FINE MATERIALS 67-09 M02-76872
SPECIAL TECHNOLOGICAL FEATURES AND POSSIBILITIES OF ENRICHING LEAN COPPER ORES FROM THE ELATSITE DEPOSIT, BOTEVGRAD REGION 67-09 M02-76876
DRESSABILITY OF POLYMETALLIC ORES FROM THE SEVERNI RODOPI DEPOSITS, SMOLYANSK REGION 67-09 M02-77750
SYSTEMS FOR ENRICHING POLYMETALLIC ORES WITH HIGH PYRITES CONTENTS 67-09 M02-77762
THE TREATMENT OF REFRACTORY COPPER ORES BY THE SEGREGATION PROCESS 67-10 M02-78313
STUDY OF THERMAL STABILITY OF FINE COPPER ORE BRIQUETS PREPARED BY THE SILICATE METHOD 67-10 M02-79033
KINETICS OF DISSOLUTION OF SYNTHETIC COVELLITE IN AQUEOUS ACIDIC FERRIC SULPHATE SOLUTIONS 67-10 M02-79949
IMPROVED SCHEMES AND CONDITIONS OF COPPER-MOLYBDENUM ORE FLOTATION 67-10 M02-80073
TECHNIQUES OF SINTERING ELECTROLYTIC COPPER SLIMES 67-10 M03-80048
WHITE PINE EXPERIMENTS WITH CYANIDE LEACHING OF COPPER TAILINGS 67-11 M02-80670
INDUSTRIAL TRIALS OF THE FLOTATION OF COPPER-PYRITE ORES WITH HUMANOL COLLECTOR 67-11 M02-81615
INFLUENCE OF OXIDATION ON THE FLOTATION OF COMPLEX CU-ZN IRON SULPHIDE ORES 67-12 M02-81732
COPPER LEACHING WITH CYANIDE--A REVIEW OF FIVE INVENTIONS 67-12 M02-82668
IMPROVING COPPER RECOVERY BY SAND SLIME SEPARATION

COPPER ORES
67-12 M02-82914
STUDIES ON THE MECHANISM AND KINETICS OF THE OXIDATION OF COPPER SULFIDE. PT. 2. OXIDATION OF COPPER SULFIDE MIXED WITH ALUMINA IN A FLUIDIZED BED 67-12 M02-82943
STUDIES ON THE MECHANISM AND KINETICS OF THE OXIDATION OF COPPER SULFIDE. PT. 1. OXIDATION OF COPPER SULFIDE IN A FIXED BED 67-12 M02-83000
SEPARATION OF LEAD-COPPER CONCENTRATES WITH SOLUBLE MANGANESE COMPOUNDS 67-12 M02-83316
STUDY OF THE BEHAVIOR OF BISMUTH DURING THE METALLURGICAL TREATMENT OF COPPER CONCENTRATES 67-12 M02-83405
BEHAVIOR OF MOLYBDENUM DURING PYROMETALLURGICAL TREATMENT OF COPPER CONCENTRATES 67-12 M02-83406
THE EFFECT AND INTERRELATION BETWEEN MAIN PARAMETERS OF OXIDIZING STEAMING DURING THE SELECTION OF COPPER-MOLYBDENUM CONCENTRATES 67-12 M02-83442
COPPER ORES, CHEMICAL ANALYSIS
PHASE ANALYSIS BY CHEMICAL METHODS IN ORES AND MINE PRODUCTS 67-05 M19-69120
THE SPECTROCHEMICAL DETERMINATION OF GOLD IN COPPER CONCENTRATES 67-06 M19-70343
COPPER ORES, MELTING
MELTING GRANULATED HIGH-SILICON COPPER CONCENTRATE IN A CONVERTER WITH OXYGEN-ENRICHED BLAST 67-05 M03-69529
HEAT WORK OF A REVERBERATORY FURNACE USING PREHEATED AIR BLAST 67-05 M03-69530
COPPER ORES, PELLETING
PELLETIZING AND ROASTING SULFIDIC COPPER-NICKEL CONCENTRATE MIXED WITH FINE ORE 67-02 M02-62044
GRANULATING COPPER CONCENTRATE BEFORE MELTING IN A CONVERTER 67-05 M03-69528
COPPER ORES, REACTIONS /CHEMICAL/
OPTIMIZATION OF PROPORTIONING LIMESTONE INTO A COPPER CHARGE 67-04 M03-66963
OXIDATION OF THE MAIN COMPONENTS OF A COPPER CHARGE 67-10 M03-80045
COPPER ORES, REDUCTION /CHEMICAL/
NATIONAL METALLURGICAL LABORATORY, ANNUAL REPORT 67-06 M01-71435
AUSTRALIANS TRY CONTINUOUS COPPERMAKING PROCESS 67-07 M03-72537
PHYSICO-CHEMICAL PHENOMENA IN THE JET DURING SUSPENSION OXYGEN SMELTING OF COPPER SULFIDE CONCENTRATES 67-07 M03-72780
MATHEMATICAL MODELING OF THE PROCESSES AT COPPER SMELTING MILL 67-07 M03-73413
SMELTING METALS CONTINUOUSLY 67-08 M03-74365
CHEMISTRY OF THE COPPER CONVERTER 67-10 M03-79376
COPPER ORES, REFINING
SEPARATING FLUORINE TO THE GAS PHASE DURING OXYGEN-SUSPENSION SMELTING OF COPPER CONCENTRATES 67-04 M02-67520
EMPLOYING AN AIR-OXYGEN BLAST IN REVERBATORY SMELTING OF COPPER CONCENTRATES 67-04 M03-67519
CONSIDERATIONS ON THE PYROMETALLURGY OF CU 67-04 M03-67745
COLUMN FLOTATION 67-06 M02-71887
LABORATORY RESEARCH INTO THE SMELTING OF POLISH COPPER CONCENTRATES TO MATTE 67-06 M03-71874
THE ONAHAMA COPPER SMELTER.. HOW JAPANS NEW COPPER SMELTER TREATS KUROKO AND OTHER ORES 67-07 M03-73213
ON THE THEORY OF FORMATION OF LIQUID PHASES IN PRACTICAL CONDITIONS OF PYROMETALLURGICAL MANUFACTURE OF COPPER 67-09 M03-76577
CYCLONE SMELTING COPPER CONCENTRATES IN A HORIZONTAL CYCLONE FURNACE 67-09 M03-76879
COPPER ORES, ROASTING
STUDY OF THE FEASIBILITY OF ENLARGING THE COPPER CINDER AND DECREASING THE DUST LOSSES IN FLUIDIZED BED ROASTING 67-02 M02-62043
COPPER ORES, SEPARATION
USING UNSULFURIZED COMPOUNDS IN THE FLOTATION OF OXIDIZED COPPER ORES 67-02 M02-62041
COPPER ORES, SMELTING
MATERIAL AND HEAT BALANCES FROM SMELTING SULFIDE COPPER-NICKEL ORES IN ELECTRIC FURNACES OF 30,000 KVA CAPACITY 67-08 M03-75087
COPPER ORES, SOLUBILITY
EXPERIMENTAL STUDY OF THE EFFECT OF CONSTANT ELECTRIC FIELD ON THE SOLUBILITY OF CERTAIN PYRITE ORES 67-11 M03-81508
COPPER PLATING
EFFECTS OF FUNDAMENTAL PLATING CONDITIONS ON THE DEPOSITION RATE. PT. 3. ELECTROCHEMICAL STUDIES OF CHEMICAL COPPER PLATING 67-01 M12-58615
EFFECTS OF ADDITION AGENTS. PT. 4. ELECTROCHEMICAL STUDIES OF CHEMICAL COPPER PLATING 67-01 M12-58616
BRIGHT COPPER PLATING FROM SULFURIC ACID ELECTROLYTES 67-01 M12-58708
MODERN DEVELOPMENTS AND TRENDS IN ELECTROPLATING 67-02 M12-59970
HOW TO METALLIZE PLASTICS 67-02 M12-61109
SOME EXPERIENCES IN COPPER ELECTROFORMING OF WAVE GUIDES 67-03 M08-65418
HOW AUTO ENGINEERS ARE ATTACKING THE CORROSION PROBLEM 67-03 M18-65209
THROUGH-HOLE PLATING--WHY SOLUTION AGITATION 67-04 M12-66508
THE CASE FOR COPPER COATED STEEL STRIP 67-04 M12-66679
POLARIZATION IN THE ELECTRODEPOSITION OF COPPER BY PULSED CURRENT 67-04 M12-66869
EFFECT OF DUTY CYCLE AND FREQUENCY OF PULSED CURRENT ON THE ELECTROCHEMICAL ASPECTS OF THE ELECTROLYSIS PROCESS 67-04 M12-66872
CU-NI AND CU-NI-CR COATINGS OF ZINC PARTS 67-04 M12-67186
CATHODE POLARIZATION AND QUALITY OF DEPOSITES DURING BRASS PLATING IN PYROPHOSPHATE ELECTROLYTE 67-04 M12-67288
PLATED ABS CHALLENGES DIECASTINGS 67-04 M12-67488
THEORY AND PRACTICE OF ELECTROPLATING A. B. S. PLASTICS 67-04 M12-67750
COPPER COATING OF STEEL STRIP FOR COMPONENTS 67-04 M12-67932
THE ELECTROPLATING OF PLASTICS 67-04 M12-68060
COMBATTING HYDROGEN EMBRITTLEMENT IN STEELS. IMPROVED ELECTROPLATING METHODS AND THEIR USE 67-05 M12-68488
ELECTROPLATING ALUMINUM--A CONTROLLABLE PROCESS 67-05 M12-68491
THE ELECTRODEPOSITION OF COPPER FROM NONAQUEOUS SOLUTIONS. PT. 1. GENERAL REVIEW AND PRELIMINARY STUDIES 67-05 M12-68815
THE ELECTRODEPOSITION OF COPPER FROM NONAQUEOUS SOLUTIONS. PT. 2. THE ACETIC ACID-PYRIDINE SYSTEM 67-05 M12-68816
POROSITY IN SINGLE AND MULTI-LAYER ELECTRODEPOSITS, AND ITS RELATION TO THE BASIS METAL STATE 67-05 M12-68819
THEORY AND PRACTICE IN THE PLATING OF ABS PLASTICS. PT. 2 67-05 M12-68902
EFFECTS OF VARIOUS ADDITIVES ON BRIGHTNESS OF COPPER DEPOSITS FROM CYANIDE BATHS 67-05 M12-69003
TAPE CONTROLS PLATING AT GM 67-05 M20-68437
CONTROLLING ADDITIVES IN PYROPHOSPHATE COPPER PLATING 67-06 M12-70233
THE MECHANISM OF THE FORMATION OF GALVANICALLY SUBSTITUTED CU FILMS 67-06 M12-71291
COPPER-COATED STEEL STRIP OFFERS PRODUCTION ADVANTAGES 67-06 M12-71673
ELECTROPLATED PLASTICS IN THE ELECTRONICS INDUSTRY 67-07 M12-73642
INCREASE IN STRENGTH OF POWDERED-METAL ALLOYS BY MEANS OF COPPER PLATING IRON POWDER 67-08 M09-75446
PLATED-WIRE MEMORIES--UNIVACS BET TO REPLACE TOROIDAL FERRITE CORES 67-08 M12-74474
PREPARATION CAN LOWER COST OF PLATING ZINC DIE CASTINGS 67-08 M12-74494
PROCESS AND CONTROLS IN THE MANUFACTURE OF MINIATURE PRECISION COAXIAL CABLE 67-09 M12-76406
PLATING PROGRESS 67-09 M12-76425
SUBSTRATE FOR MICROELECTRONICS MANUFACTURING PROCESS FOR EXTREMELY SMOOTH, CONDUCTIVE MATERIALS 67-09 M12-76689
AERSOL COPPER PLATING AT AMBIENT TEMPERATURE 67-09 M12-77143
METAL PLATING OF A B S AND OTHER POLYMERS 67-09 M12-77539
IMPROVING THE STABILITY OF ELECTROLESS COPPER PLATING SOLUTIONS 67-09 M12-77694
SOME UNIQUE APPLICATIONS OF POSITIVE-WORKING PHOTORESISTS IN THE PLATING OF PRINTED WIRING

BOARDS 67-09 M12-78054
COPPER PYROPHOSPHATE PLATING WITHOUT ADDITIVES 67-09 M12-78055
SOME PRODUCTION PLATING PROBLEMS AND HOW THEY WERE SOLVED. PT. 12 67-09 M12-78058
A MORE UNIFORM, MORE ADHERENT PLATE ON ZINC 67-09 M12-78173
PYROPHOSPHATE COPPER PLATING BATHS 67-09 M12-78197
PRACTICAL PROBLEMS IN COPPER CYANIDE PLATING 67-10 M12-78521
ELECTRODEPOSITION OF COPPER FROM SULFATE ELECTROLYTE IN PRESENCE OF NITROGEN-CONTAINING ORGANIC COMPOUNDS 67-10 M12-78531
TAKE ANOTHER LOOK AT BRIGHT ACID COPPER 67-10 M12-79311
THE METALLIC COATING OF GRAFTED ABS POLYMERS 67-10 M12-79884
THE EFFECT OF ORGANICS IN COPPER SULPHATE ELECTROFORMING BATHS 67-11 M12-80193
STUDIES ON BRIGHT AND LEVELED COPPER DEPOSITS FROM CYANIDE BATHS. PT. 3. EFFECTS OF VARIOUS PLATING CONDITIONS AND ADDITIVES ON LEVELING ACTION OF COPPER CYANIDE BATHS 67-11 M12-80504
METALLURGICAL STUDIES ON ELECTRICAL CONTACT MATERIALS. PT. 3. STUDIES ON BATH COMPOSITIONS FOR ELECTROPLATING OF SILVER-COPPER ALLOYS 67-11 M12-80506
PRACTICAL PROBLEMS IN COPPER CYANIDE PLATING. PT. 2 67-11 M12-80665
INFLUENCE OF THE EDGE EFFECT ON THE TEXTURE OF COPPER DEPOSITS 67-11 M12-80729
STABILITY OF ELECTROLESS CHEMICAL COPPER-PLATING SOLUTIONS 67-11 M12-81289
DETERMINING THE ADHESION STRENGTH OF COPPER AND NICKEL COATINGS TO A STEEL BASE BY THE LARGE CENTRIFUGAL FIELDS METHOD 67-11 M17-81299
DIFFERENTIAL NICKEL AND COPPER PLATING 67-12 M12-82607
MECHANICAL PROPERTIES OF COPPER CLAD ALUMINUM WIRE. PT. 2. STUDIES ON FABRICATION OF ULTRAFINE WIRE OF ALUMINUM AND ALUMINUM ALLOYS 67-12 M17-83110

COPPER PLATING, AUTOMATION
COMPUTERS AND PLATING--A PRELIMINARY GLIMPSE OF 21ST CENTURY OPERATIONS 67-02 M12-60685
FULLY AUTOMATIC INSTALLATIONS FOR THE ELECTROLYTIC AND CHEMICAL SURFACE TREATMENT OF PRINTED CIRCUITS 67-10 M12-79887

COPPER PLATING, REACTION KINETICS
EFFECTS OF ADDITIVES ON THE CATHODE POLARIZATION IN COPPER CYANIDE BATHS. PT. 2. BRIGHT AND LEVELED COPPER DEPOSITS FROM CYANIDE BATH 67-08 M12-74926

COPPER STEELS
COPPER IN CARBON AND LOW-ALLOY STEELS 67-04 M01-68040

CORE BITS
SEE CORING BITS

CORE DRILLING
SEE CORING

CORE HARDNESS
SEE HARDNESS

CORE MAKING
MALLEABLE FOUNDERS COMPLETE EXPANSION SCHEME 67-06 M06-71232
THE APPLICATION OF THE SHELL MOLDING PROCESS TO THE PREPARATION OF CORES FOR HEAVY-METAL CASTINGS 67-07 M06-72490
THE WHEELDON PROCESS 67-10 M06-79749

CORE MAKING MATERIALS
SEE MOLDING MATERIALS

CORE SANDS
SEE FOUNDRY SANDS

CORED INDUCTION FURNACES
SEE CHANNEL INDUCTION FURNACES

CORELESS INDUCTION FURNACES
INDUCTION MELTING FOR PRECISION-INVESTMENT CASTING 67-01 M06-58541
INDUCTION MELTING FOR SPHEROIDAL GRAPHITE IRON PRODUCTION 67-02 M06-60523
INDUCTION MELTING IN THE PRODUCTION OF SPHEROIDAL GRAPHITE CAST IRON 67-05 M06-68924

CORELESS INDUCTION FURNACES, LINERS
CRUCIBLE LININGS FOR CORELESS ELECTRIC INDUCTION FURNACES 67-05 M06-69887

CORES
METAL MELT-OUT CORES IN DIE CASTING 67-01 M06-57320

CORES, MATERIALS
FUSIBLE CORES FOR PRESSURE DIECASTINGS 67-07 M06-73042

CORING
CYLINDER BLOCK CASTINGS DEFINNED ON TRANSFER MACHINE 67-09 M07-78034

CORING BITS, HARD SURFACING
REPAIRING A CORE DRILL BY ELECTROSLAG WELDING 67-02 M11-60842

CORING BITS, WELDING
REPAIRING A CORE DRILL BY ELECTROSLAG WELDING 67-04 M11-67999

CORRODENTS
SEE CORROSION ENVIRONMENTS

CORRODKOTE TESTS
NEW ELECTROLYTIC TEST FOR CORROSION DEVISED IN USA GIVES FAST RESULTS 67-04 M18-66135
TESTING OF ANODIC COATINGS ON ALUMINUM 67-04 M18-67791
EVALUATION OF ACCELERATED CORROSION TESTS FOR ANODIZED ALUMINIUM 67-05 M18-68823
DEVELOPMENT OF ACCELERATED CORROSION TESTS FOR ELECTROPLATED COATINGS 67-06 M18-71382

CORROSION
SEE ALSO CONCENTRATION CELL CORROSION
CORROSION FATIGUE
CORROSION MECHANISMS
EROSION CORROSION
EXFOLIATION CORROSION
FRETTING CORROSION
GALVANIC CORROSION
INTERGRANULAR CORROSION
PITTING /CORROSION/
RUSTING
SCALE /CORROSION/
STRAY CURRENT CORROSION
STRESS CORROSION
TARNISHING
TRANSGRANULAR CORROSION
UNDERGROUND CORROSION
THE CORROSION BEHAVIOR OF ALUMINUM AND ITS ALLOYS IN WATER. PT. 1. THEORETICAL CONSIDERATION OF THE CORROSION OF ALUMINUM IN WATER AND THE EFFECT OF THE CHEMICAL COMPOSITION OF WATER ON THE CORROSION BEHAVIOR OF ALUMINUM 67-01 M18-57455
INVESTIGATION OF THE CORROSION OF ALUMINUM IN WATER AT HIGH TEMPERATURES 67-01 M18-58048
STUDY OF THE OXIDATION OF NIOBIUM 67-01 M18-58049
90/10 CUPRONICKELS FOR SEA WATER PIPING 67-02 M18-59417
CORROSION AND GROWTH OF SILVER CRYSTALS UNDER HYDROTHERMAL CONDITIONS 67-02 M18-59455
ELECTROCHEMICAL AND CORROSION BEHAVIOR OF BINARY ALLOYS AND ALUMINUM-BASE INTERMETALLIC COMPOUNDS 67-02 M18-60786
CORROSION OF ALUMINUM AND TITANIUM IN GAPS 67-02 M18-60787
THE CORROSION OF ZINC, CADMIUM AND LEAD IN GAPS 67-02 M18-60797
INFLUENCE OF CONCENTRATED NEUTRAL SALT SOLUTIONS ON THE CORROSION OF METALS 67-02 M18-61763
ACCELERATED CORROSION OF SHIPS BOTTOM PLATE 67-03 M18-65994
CORROSION OF MILD STEEL BY ACTIVELY GROWING CULTURES OF SULFATE-REDUCING BACTERIA. THE INFLUENCE OF FERROUS IRON 67-03 M18-65995
MATERIALS OF CONSTRUCTION 67-03 M20-65696
FOUNDATION OF NATIONAL RESEARCH INSTITUTE FOR METALS, PROCEEDINGS 67-04 M01-67539
ACTION OF MOLTEN ZN ON NI STEELS 67-04 M14-66340
EVALUATION OF LI, NA, K, RB AND CS BOILING AND CONDENSING IN NB-1 PER CENT ZR CAPSULES 67-04 M18-66388
DECORATIVE NICKEL-CHROMIUM PLATING 67-05 M12-69482
FORMATION OF HOLLOW WHISKERS FROM METALS BY REACTION WITH FERICYANIDE AND FERROCYANIDE 67-05 M14-69427
SOME CORROSION PHENOMENA AND THEIR PREVENTION 67-05 M18-68610
WATER TREATMENT FOR COOLING SYSTEMS 67-05 M18-68698
EFFECT OF THE HYDRIDE LAYER ON THE ANODIC POLARIZATION BEHAVIOR OF TITANIUM IN SULFURIC ACID 67-05 M18-68767
DESIGNING WITH ALUMINUM--ALLOYS FOR VARIOUS

CORROSIVE ENVIRONMENTS 67-05 M18-68792
DESIGNING TO PREVENT CORROSION--PROTECTION OF EQUIPMENT SHOULD BEGIN AT THE DRAWING BOARD 67-05 M18-68793
FUNDAMENTALS OF CORROSION 67-05 M18-68936
COMPARATIVE STUDY OF THE KINETICS AND MECHANISM OF DEZINCIFICATION OF 70/30 BRASSES WITH OR WITHOUT ADDITIONS OF TIN AND ARSENIC 67-05 M18-69113
CORROSION OF MATERIALS BY LIQUID METALS 67-05 M18-69193
THE ORIGIN, PREVENTION AND CONTROL OF LOW-TEMPERATURE CORROSION RESULTING FROM THE COMBUSTION OF FUEL OIL 67-05 M18-69343
CLADDING AND STRUCTURAL MATERIALS 67-06 M01-70092
CORROSION/EROSION 67-06 M18-70230
CONTRIBUTION TO THE PHENOMENOLOGY OF CORROSION AND PATINA FORMATION OF ANTIQUE COPPER ALLOYS 67-06 M18-70245
HIGH TEMPERATURE CORROSION AND EVAPORATION OF HAYNES 25 AND HASTELLOY X-280 67-06 M18-70483
USE OF AMMONIA TO SUPPRESS OXYGEN PRODUCTION AND CORROSION IN BOILING-WATER REACTORS 67-06 M18-70489
HOT CORROSION OF GAS TURBINE ALLOYS 67-06 M18-70491
CORROSION AND COMPATIBILITY 67-06 M18-70650
HOW METALLURGIST HELPS HALT CORROSION 67-06 M18-71314
OXIDE DISSOLUTION AND ITS EFFECT ON THE CORROSION OF 1100 ALUMINUM IN WATER AT 70 C 67-06 M18-72168
THE CORROSION OF 1100 ALUMINUM IN WATER FROM 50 TO 95 C 67-06 M18-72169
KINETICS OF TANTALUM CORROSION IN AQUEOUS ELECTROLYTES 67-06 M18-72172
STRUCTURAL AND MORPHOLOGICAL METAMORPHISM OF SILICA AND SILICA-ALUMINA REFRACTORIES USED IN METALLURGY 67-07 M04-73209
THE CORROSION OF TIN PLATE BY FOODSTUFFS 67-07 M18-72538
CORROSION AND PROTECTIVE METHODS 67-07 M18-74161
ELECTROLYTIC A-C CORROSION OF POLYELECTRODE SYSTEMS 67-08 M18-74623
ELECTROLYTIC A-C CORROSION OF SOME METALS 67-08 M18-76255
WEAR OF METALS IN SUCROSE SOLUTIONS 67-09 M17-76438
ANODIC BEHAVIOR OF AISI 316 STAINLESS STEEL IN A HCLO4-HCL SOLUTION 67-09 M18-76489
THE EFFECTS OF FREON-22 ON CERTAIN ALUMINUM ALLOYS AND NONMETALLIC SUBSTANCES 67-09 M18-76563
SOME OPERATING CONDITIONS INFLUENCING ATTACK OF NON-FERROUS TUBULAR CONDENSER AND HEAT-EXCHANGER EQUIPMENT 67-09 M18-76633
THE EXAMINATION OF CORROSION PRODUCTS AND PROCESSES. PT. 2. POTENTIOSTATS 67-09 M18-76634
INVESTIGATION ON THE DAMAGE TO STEELS UNDER THE EFFECT OF MOIST HYDROGEN SULPHIDE 67-09 M18-77383
RUPTURE BEHAVIOR OF TENSILE TEST BARS OF A TUBE STEEL WITH A MINIMUM YIELD POINT OF 30 KG/MM2 IN SOLUTIONS AND GASES CONTAINING HYDROGEN SULPHIDE 67-09 M18-77384
RUPTURE TESTS CARRIED OUT ON STEELS WITH HIGH TENSILE STRENGTH IN GASES AND SOLUTIONS CONTAINING HYDROGEN SULPHIDE 67-09 M18-77385
THE CASE FOR GALVANIZED BRIDGES 67-09 M18-77666
INFLUENCE OF SURFACE CONDITION OF IRON ON ITS SUSCEPTIBILITY TO ACID CORROSION 67-09 M18-78020
PROTECTION OF VEHICLES AGAINST CORROSION 67-09 M18-78023
INTERACTION BETWEEN SOLIDIFYING METAL AND MOULD 67-09 M18-78081
RESEARCH INTO THE BREAKDOWN OF STEEL BY CORROSION AND EROSION DURING THE FILTRATION OF COAL AND THE PRODUCTS OF BENEFICIATION 67-10 M18-78946
APPLICATION OF REFRACTORY COMPOUNDS IN PRODUCTION OF CHLORINE AND CAUSTIC 67-10 M18-79342
CONTAMINATION AND CORROSION IN BLAST FURNACE TURBINE PLANTS 67-10 M18-79393
STAINLESS STEEL AND THE GIPSY MOTH 4 67-10 M18-79426
CORROSION OF STAINLESS CHROMIUM-NICKEL STEEL IN MOLTEN LITHIUM 67-10 M18-79642
CORROSION OF MAGNESITE BRICK BY FAYALITE SLAGS, WITH AND WITHOUT ADDED CALCIUM OXIDE 67-11 M04-81464
ELECTRODE POTENTIALS AND DATA FROM CORROSION TESTING OF AL-MN ALLOYS IN NEUTRAL WEAK-ACID AND ALKALINE SOLUTIONS 67-11 M18-80452
ON THE RELATION BETWEEN CORROSION RATE AND POLARIZATION RESISTANCE 67-11 M18-80712
ELECTROCHEMICAL CORROSION OF WHITE-METAL BEARINGS 67-11 M18-81247
BACTERIAL CORROSION OF STEEL WATERPIPES 67-11 M18-81279
INVESTIGATION OF THE STRUCTURE OF SURFACE FILMS ON HIGH-PURITY ZIRCONIUM 67-11 M18-81294
STABILITY OF LEAD BASE ALLOYS IN SULFURIC ACID SOLUTIONS IN CONDITIONS OF ANODIC POLARIZATION 67-11 M18-81296
CORROSION PROPERTIES OF COMBINATION COATINGS 67-12 M18-81721
CORROSION AS A FACTOR IN THE WEAR OF TUBE-MILL LINERS 67-12 M18-81802
INFLUENCE OF VARIOUS OXIDIZING AGENTS AND TRACES OF SULFATE IONS ON THE CORROSION OF A SILICON AUSTENITIC STEEL IN A NITRIC ACID MEDIUM 67-12 M18-82138
THE CORROSION OF SILVER IN CHLORIDE SOLUTIONS UNDER HYDROTHERMAL CONDITIONS 67-12 M18-82296
THE NATURE OF THE CORROSIVE ACTION OF OXYGEN-BEARING LIQUID SODIUM UPON STEEL 67-12 M18-82439
THE CORROSION BEHAVIOR OF PALLADIUM IN TITANIUM-PALLADIUM ALLOY 67-12 M18-82501
CORROSION RESISTANCE AT HIGH TEMPERATURES 67-12 M18-82516
INVESTIGATIONS OF CORROSION DAMAGE ON CD-PLATED PARTS AND THEIR RESULTS 67-12 M18-82689

CORROSION, ALLOYING EFFECTS
OXIDATION RESISTANCE OF KH20N80 ALLOY, ALLOYED WITH LANTHANUM AND CERIUM 67-02 M18-60063
THE INFLUENCE OF THE MOLYBDENUM CONTENT ON THE CORROSION RATE OF AUSTENITIC CR-NI STEELS IN THE ACTIVE CONDITION 67-10 M18-78685

CORROSION, COMPOSITION EFFECTS
THE INFLUENCE OF DELTA FERRITE ON THE CORROSION BEHAVIOR OF WELD DEPOSITS MADE WITH AUSTENITIC FILLER MATERIALS 67-09 M18-77340

CORROSION, IMPURITY EFFECTS
EFFECT OF OXYGEN CONTENT AND HEAT TREATMENT ON THE CORROSION RESISTANCE OF AT3 AND AT8 ALLOYS 67-01 M18-57598

CORROSION, RADIATION EFFECTS
EFFECTS OF IRRADIATION AND ENVIRONMENT ON THE MECHANICAL PROPERTIES AND HYDROGEN PICKUP OF ZIRCALOY 67-02 M17-59026
CORROSION OF ZIRCALOY-2 BY HYDROGEN PEROXIDE AT ELEVATED TEMPERATURE 67-02 M18-59452
OXIDE GROWTH AND CAPACITANCE ON PREIRRADIATED ZIRCALOY-2 AND ZIRCONIUM 67-05 M18-68617

CORROSION, STANDARDS
ADOPTION OF MODIFIED GERMAN STANDARDS FOR INHIBITION OF PIPE CORROSION IN AUSTRIA 67-07 M18-74004
INTERNATIONAL PROTECTION OF NETWORKS AGAINST CORROSION 67-07 M18-74005

CORROSION, TEMPERATURE EFFECTS
CONTROLLING AUTOMOBILE EXHAUST. CORROSION EFFECT ON SMOG CONTROL DEVICES 67-08 M18-75744

CORROSION CONTROL
SEE CORROSION PREVENTION

CORROSION CRACKING
SEE STRESS CORROSION CRACKING

CORROSION EFFECTS
SEE ALSO DEZINCIFICATION
EXFOLIATION CORROSION
PITTING /CORROSION/
RUSTING
SCALE /CORROSION/
TARNISHING
EFFECT OF INTERSTITIAL ELEMENTS AND IRON ON CORROSION RESISTANCE OF COMMERCIALLY PURE TITANIUM IN HYDROCHLORIC ACID AND SULFURIC ACID 67-01 M18-58237
ELECTROCHEMICAL STUDIES ON COPPER ALLOYS IN STAGNANT AND MOVING 3 PER CENT NACL AQUEOUS SOLUTIONS CONTAINING HYDROGEN SULFIDE 67-01 M18-58334
STUDY ON THE CORROSION OF FE IN CONCRETE BY MEANS OF POLARIZATION CURVES 67-04 M18-67901

THE ESTIMATION OF CORROSION VELOCITY BY MEASURING POLARIZATION RESISTANCE 67-07 M18-72765

CORROSION ENVIRONMENTS

STUDY ON LOW-TEMPERATURE CORROSION IN ACTUAL HEAVY OIL-FIRED BOILERS 67-01 M18-58696

ALLOYS CONTAINING LARGE AMOUNTS OF COPPER AND NICKEL FOR USE IN SEA WATER 67-01 M18-58734

THE NON-SELECTIVE CORROSION OF ALLOY STEELS IN LIQUID LOW MELTING POINT METALS 67-02 M18-59894

ATMOSPHERIC CORROSION OF IRON POWDERS IN THE PRESENCE OF SULFUR DIOXIDE 67-02 M18-61632

CORROSION OF TITANIUM 67-03 M18-65431

EFFECT OF FLY ASH ON STEEL REINFORCEMENT 67-03 M18-65689

CORROSION FATIGUE PERFORMANCE OF A CARBON STEEL IN BRINE CONTAINING AIR, H2S AND CO2 67-03 M18-65755

SHIPBOTTOM COATING TESTS--SIMULATED SERVICE TESTS EVALUATE PERFORMANCE 67-04 M18-66316

A RADIOTRACER STUDY ON THE REACTION BETWEEN ZINC AND CHROMATE. PT. 2. THE CORROSION OF ZINC IN DILUTE CHROMATE SOLUTIONS 67-04 M18-66691

ON THE EVALUATION OF THE EFFECT OF ATMOSPHERIC CORROSION ON THE TENDENCY OF STEELS TO BRITTLE FRACTURE 67-05 M17-68743

THE CORROSION BEHAVIOUR OF ANNEALED AND COLD WORKED HIGH-PURITY ALUMINUM IN PRESSURIZED WATER 67-05 M18-68642

LIQUID SODIUM TECHNOLOGY DEVELOPMENT. PT. 1. TEST LOOPS, PURIFICATION METHODS AND CORROSION TESTS 67-05 M18-68647

CORROSION OF MATERIALS BY LIQUID METALS 67-05 M18-69193

PITTING CORROSION OF 13CR-FE ALLOY IN NA2SO4 SOLUTIONS CONTAINING CHLORIDE IONS 67-05 M18-69837

CLAD AND PRECOATED METALS 67-06 M12-70495

SOME OBSERVATIONS ON THE PITTING CORROSION OF TYPE 302 STAINLESS STEEL IN DILUTE OXYGENATED HALIDE SOLUTIONS 67-06 M18-69905

EFFECTS OF THE PH OF WATER ON THE CORROSION OF PEARLITIC STEEL 67-06 M18-70154

STUDIES IN THE CORROSION OF ALUMINIUM BRONZE IN SALT WATER 67-06 M18-70231

A CONTRIBUTION TO THE EXAMINATION OF STRESS CORROSION CRACKING OF AUSTENITIC STAINLESS STEELS IN MAGNESIUM CHLORIDE SOLUTIONS 67-06 M18-70482

STEEL TOWERS POPULATE THE SEAS 67-06 M18-71670

CONSTRUCTION MATERIALS FOR PHOS-ACID MANUFACTURE 67-06 M20-71496

METALLURGICAL PROBLEMS IN STEAM REFORMING PLANT 67-07 M01-74266

EVALUATION OF ALUMINUM PANELS EXPOSED IN THE PACIFIC OCEAN AT 2340 FEET FOR SIX MONTHS 67-07 M18-72483

THE CORROSION OF TIN PLATE BY FOODSTUFFS 67-07 M18-72538

CORROSION BY MGCL2-BASED DE-ICING MEDIA 67-08 M18-74955

HIGH-TEMPERATURE OXIDATION OF HOT ROLLED ELECTRIC STEELS. PT. 1. ELECTRICAL STEEL 67-08 M18-75260

CORROSION OF AL ALLOYS AFTER BEING EXPOSED FOR FIVE YEARS IN DIFFERENT MARINE SITES 67-08 M18-75380

ALLOYS FOR SEA WATER CONVERSION. COPPER-BASE ALLOYS FOR HEAT EXCHANGE EQUIPMENT 67-08 M18-75742

SOME OBSERVATIONS ON THE OXIDATION OF UNALLOYED AND DELTA-STABILIZED PLUTONIUM METAL 67-09 M18-76334

THE USE OF POLARIZATION CURVES IN INDUSTRIAL STUDIES OF WATER CORROSION 67-09 M18-76490

INFLUENCE OF WATER AND THE NATURE OF THE ELECTROLYTE ON THE ANODIC ACTIVATION OF TITANIUM IN METHANOL SOLUTIONS 67-09 M18-77093

CORROSION OF MILD STEEL IN SEAWATER 67-09 M18-77229

ACTUAL STATE OF CORROSIVE FACTORS ACTING ON PIPELINE CLASSIFIED BY ENVIRONMENT AND PREVENTING METHODS THEREOF 67-09 M18-77337

NEW PROCESS SOLVES NITRATE CORROSION 67-09 M18-77376

INFLUENCE OF IRRADIATION ON THE CORROSION OF ZIRCALOY 2 IN AQUEOUS HIGH-TEMPERATURE ENVIRONMENTS 67-09 M18-77470

CRITERIA OF SOIL AGGRESSIVENESS TOWARDS BURIED METALS. PT. 1. EXPERIMENTAL METHODS 67-09 M18-77486

SOME CORROSION PROBLEMS IN CONNECTION WITH THE WELDING OF STEEL 67-10 M18-78458

RESEARCH ON THE CORROSION OF SOME METALS AND METAL OXIDES IN SODIUM HYDROXIDE MELTS 67-10 M18-78465

THE STRESS CORROSION FRACTURE OF HEAT TREATED STEEL EXPOSED TO NH4SCN SOLUTIONS 67-10 M18-78920

ANODIC CORROSION OF LEAD IN A SULPHURIC ACID SOLUTION UNDER THE INFLUENCE OF PERCHLORIC ACID 67-10 M18-78921

CORROSION BEHAVIOUR OF STAINLESS HEAT TREATABLE STEELS WITH APPROXIMATELY 13 PER CENT CR 67-10 M18-79088

MASS TRANSFER PHENOMENA CAUSED BY LIQUID SODIUM AT NICKEL AND MOLYBDENUM ALLOYS 67-10 M18-79091

WHY COPPER-NICKEL ALLOYS FOR DESALINATION 67-11 M18-80289

APPLICATION OF STEELS FOR DESALINATION PLANTS 67-11 M18-80292

THE BEHAVIOR OF AUSTENITIC FE-CR-NI STEELS AND OF THE NEW FEAL 40 ALLOY IN SUPERHEATED STEAM 67-11 M18-80355

CHEMICAL STUDIES ON SULFIDE CORROSION CRACKING OF STORAGE TANK MATERIALS FOR LP GAS. PT. 2. PROTECTION OF HIGH-STRENGTH STEEL IMMERSED IN LP GAS CONTAINING HYDROGEN SULFIDE 67-11 M18-80486

INHIBITION PROCESS OF ANODIC DISOLUTION OF IRON BY IODIDE IONS IN ACID SOLUTIONS 67-11 M18-80487

MEASUREMENT OF ATMOSPHERIC FACTORS AFFECTING THE CORROSION OF METALS 67-11 M18-80689

THE EFFECTS OF ATMOSPHERIC FACTORS ON THE CORROSION OF ROLLED ZINC 67-11 M18-80692

THE ATMOSPHERIC CORROSION OF ALUMINIUM AND ITS ALLOYS. RESULTS OF SIX-YEAR EXPOSURE TESTS 67-11 M18-80693

ATMOSPHERIC EXPOSURE OF LIGHT METALS 67-11 M18-80695

THE CORROSION OF MILD STEEL IN BOILING SALT SOLUTIONS 67-11 M18-80706

CORROSION OF METALS IN THE MOLTEN LIOH-LIF-H2O SYSTEM 67-11 M18-80827

CORROSIVENESS OF VARIOUS ATMOSPHERES 67-11 M18-81524

NEW ASPECTS OF THE USE OF CAST AL ALLOYS 67-11 M18-81546

CORROSION RATES OF MILD STEEL IN COASTAL, INDUSTRIAL, AND INLAND AREAS OF NORTHERN CALIFORNIA 67-12 M18-81756

METHODS OF PRESERVING AND PACKING METALWARE BEING TRANSPORTED TO TROPICAL CLIMATES 67-12 M18-81878

STRESS-CORROSION CRACKING OF QUENCH-HARDENED STEEL WITH WHITE ETCH-RESISTANT SURFACE FILMS 67-12 M18-82184

CORROSION FATIGUE STRENGTH OF DURALUMIN IN THE PRESENCE OF STRESS CONCENTRATORS 67-12 M18-82187

THE CORROSION OF SILVER IN CHLORIDE SOLUTIONS UNDER HYDROTHERMAL CONDITIONS 67-12 M18-82296

INVESTIGATIONS INTO A PITTING CORROSION INDICATOR TEST ON CHROMIUM AND CHROME-NICKEL STEELS IN SOLUTIONS CONTAINING CHLORIDE OR BROMIDE 67-12 M18-82298

METALLIZED ZN COATINGS FOR CORROSION PROTECTION OF STEEL IN SEA WATER 67-12 M18-82353

BEHAVIOR OF STEELS USED FOR AMMONIA SYNTHESIS 67-12 M18-82354

ATMOSPHERIC STRESS CORROSION TESTING OF ALUMINUM ALLOYS 67-12 M18-82452

KINETICS OF THE OXIDATION OF TANTALUM BY WATER VAPOR 67-12 M18-82568

MATERIALS IN OCEAN ENGINEERING 67-12 M18-82642

THE EFFECTS OF ATMOSPHERE ON FATIGUE CRACK PROPAGATION 67-12 M18-82827

FUNDAMENTAL EXPERIMENT ON SOILS. PT. 1. STUDIES ON SOIL CORROSION OF METALLIC MATERIALS 67-12 M18-82892

STRESS CORROSION CRACKING OF FIRED BULLETS OF BRASS 67-12 M18-82893

FIELD CORROSION TESTS FOR COMPARISON OF CORROSIVITY IN JAPAN AND CHINA 67-12 M18-82894

STUDY ON ELECTROLYTIC MACHINING PROCESS. PT. 12. CORROSION OF MILD STEEL IN SODIUM CHLORIDE SOLUTION 67-12 M18-83225

GALVANIC PROTECTION--ANODIC POLARIZATION OF SEVERAL GRADES OF SPANISH ZINC 67-12 M18-83578

CORROSION FATIGUE
THE EFFECT OF SOME COATINGS ON THE FATIGUE AND CORROSION FATIGUE STRENGTH OF KH17N2 STEEL 67-01 M18-57667
EFFECT OF BORATING ON FATIGUE AND CORROSION FATIGUE STRENGTH OF STEEL 67-02 M17-59654
FAILURE OF MATERIAL UNDER PULSATING CONTACT LOAD 67-02 M17-59707
SURFACE COLD ROLLING OF MARINE PROPELLER SHAFTS 67-02 M18-60720
CORROSION FATIGUE OF STEEL DURING CYCLIC BENDING AND TORSION 67-02 M18-60967
INFLUENCE OF THE LENGTH OF SPECIMEN ON CORROSION FATIGUE RESISTANCE AT ALTERNATIVE LOADING 67-02 M18-60968
SIZE FACTOR IN CORROSION FATIGUE OF ALUMINUM ALLOY D1 67-02 M18-60969
INFLUENCE OF THE CHEMICAL COMPOSITION OF DEOXIDIZER ON THE STRENGTH OF CAST STEEL IN CORROSIVE MEDIUM 67-02 M18-60970
INVARIABILITY, HESITATION OR RESTORATION OF DAMAGE IN WET-DRY FATIGUE PROCESS 67-03 M18-65663
CORROSION FATIGUE PERFORMANCE OF A CARBON STEEL IN BRINE CONTAINING AIR, H2S AND CO2 67-03 M18-65755
WHY GEARS FAIL 67-04 M17-67909
EFFECT OF A METHOD OF FEEDING CORROSIVE LIQUIDS ON THE CORROSION RESISTANCE OF AN ALUMINUM ALLOY 67-04 M18-66198
EFFECT OF HEAT TREATMENT ON STRESS CORROSION CRACKING OF CARBON STEEL 67-04 M18-66861
BRITTLE FRACTURE OF STEEL IN ACID MEDIUM 67-04 M18-67839
INFLUENCE OF RESIDUAL STRESSES ON CORROSION CRACKING OF AUSTENITIC STAINLESS STEELS 67-05 M18-69007
EFFICIENCY OF THE USE OF SURFACE HARDENING FOR INCREASING FATIGUE AND CORROSION FATIGUE RESISTANCE OF SOME STAINLESS STEELS 67-05 M18-69014
THE RELATIONSHIP BETWEEN CORROSION, STRESS AND THE FE3O4 LAYERS 67-05 M18-69333
HYDROGENATION OF STEEL IN SULFIDE AND ALKALINE ELECTROLYTES 67-05 M18-69828
HYDROGEN CORROSION OF STRESSED METAL 67-05 M18-69829
EFFECT OF THE LOADING FREQUENCY ON THE CORROSION FATIGUE STRENGTH OF SPECIMENS FROM CARBON STEEL WITH STRESS CONCENTRATORS 67-06 M17-70936
EFFECT OF ORGANIC CORROSION INHIBITORS ON CORROSION FATIGUE 67-06 M18-70490
THE PREVENTION OF METAL PART FAILURE BY THE USE OF PROTECTIVE COATINGS 67-07 M12-74244
INFLUENCE OF LOADING FREQUENCY AND HEAT TREATMENT ON CORROSION FATIGUE OF CARBON STEEL 67-07 M18-73168
INFLUENCE OF LOADING FREQUENCY ON ENDURANCE OF V95 ALUMINUM ALLOY IN THE PRESENCE OF SURFACTANTS 67-07 M18-73169
THE FATIGUE STRESS CORROSION OF METALLIC MATERIALS. PT. 9. PASSIVATION AND ACTIVATION PROCESSES IN THE FATIGUE STRESS CORROSION OF STAINLESS STEELS 67-07 M18-73177
SOME FACTORS AFFECTING THE INITIATION AND PROPAGATION OF CORROSION-FATIGUE CRACKS IN A HIGH CARBON STEEL 67-07 M18-74163
INFLUENCE OF DIFFUSION CHROMIZING ON FATIGUE AND CORROSION FATIGUE OF CARBON STEEL 67-07 M18-74183
FAILURE OF STEAM PIPE AT LOCAL DEFECTS 67-08 M17-74509
CORROSION BY MGCL2-BASED DE-ICING MEDIA 67-08 M18-74955
A NOTE ON THE INFLUENCE OF TANGENTIAL TRACTION ON PITTING FATIGUE 67-08 M18-75542
CORROSION-FATIGUE CRACK PROPAGATION IN MODERN HIGH-PERFORMANCE STRUCTURAL STEELS 67-08 M18-75974
INFLUENCE OF DIFFUSION CHROMIZING ON SOME PHYSICAL AND MECHANICAL PROPERTIES OF CARBON STEEL 67-09 M17-76434
CORROSION FATIGUE OF ARMCO IRON IN ACID MEDIUM 67-09 M18-76431
CORROSION RESISTANCE OF LEAD IN SULPHURIC ACID UNDER STATIC AND ALTERNATING STRESS 67-09 M18-76613
CORROSION FATIGUE OF STRUCTURAL METALS IN MINE SHAFT WATERS 67-09 M18-76741
COMPATIBILITY OF ATLAS MATERIALS WITH FLUORINE PROPELLANTS 67-09 M18-77564
CORROSION FATIGUE OF METALS 67-10 M18-78711
THE FATIGUE STRENGTH OF CARBON STEELS, DIFFUSION CHROMIUM-PLATED UNDER VARIOUS CONDITIONS 67-11 M17-80589
MECHANISM OF CORROSION CRACKING OF STRAINED METAL, INTERACTING WITH MOLTEN LITHIUM 67-11 M18-80580
CORROSION CRACKING OF KH17N2 AND KH17N5M3 STAINLESS STEELS IN CHLORIDE SOLUTIONS 67-11 M18-80585
EFFECT OF CYCLICAL STRESSES ON THE AMOUNT OF TOTAL ELECTRODE POTENTIAL OF AN ALUMINUM ALLOY 67-11 M18-80586
EFFECT OF PROIR CORROSION ON THE FATIGUE LIMIT OF D16 ALUMINUM ALLOY 67-11 M18-80587
INFLUENCE OF LOADING FREQUENCY OF ENDURANCE OF V95 ALUMINUM ALLOY 67-12 M17-81889
THE EFFECT OF MACHINING ON THE FATIGUE STRENGTH OF KH17N2 AND KH17N5M3 --SN-3-- STEELS 67-12 M17-82197
CORROSION FATIGUE STRENGTH OF DURALUMIN IN THE PRESENCE OF STRESS CONCENTRATORS 67-12 M18-82187
HYDROGEN ABSORPTION OF STEEL IN ALKALINE SULFIDE ELECTROLYTES 67-12 M18-82262
HYDROGEN CORROSION OF STRESSED METAL 67-12 M18-82263
CORROSION-FATIGUE STRENGTH OF MARK 1KH18N9T STEEL 67-12 M18-82435
ON THE CORROSION-FATIGUE AND FATIGUE-DAMAGE OF CAST IRON 67-12 M18-82603

CORROSION FATIGUE, ALLOYING EFFECTS
EFFECT OF COMBINED ALLOYING WITH MANGANESE, TUNGSTEN AND MOLYBDENUM ON THE CORROSION FATIGUE AND CORROSION RESISTANCE OF SHKH 15 STEEL 67-12 M18-82191

CORROSION FATIGUE, HEATING EFFECTS
FATIGUE LIMIT IN AIR AND UNDER CORROSION OF A MARTENSITIC STEEL CONTAINING 13 PER CENT CR AFTER DIFFERENT MECHANICAL AND HEAT TREATMENTS 67-09 M17-78039
CORROSION UNDER HEAT TRANSFER--SERVICE FAILURES AND LABORATORY TESTING 67-11 M18-81552

CORROSION FATIGUE, STRESS EFFECTS
THE INFLUENCE OF INTERNAL STRESS ON CORROSION FATIGUE IN NICKEL-PLATED STEEL 67-12 M18-82606

CORROSION FATIGUE, TEMPERATURE EFFECTS
THE ELEVATED-TEMPERATURE STRENGTHS AND CORROSION-FATIGUE STRENGTHS OF NICKEL-COPPER ALLOY 67-02 M17-59723

CORROSION MECHANISMS
SEE ALSO CONCENTRATION CELL CORROSION
CORROSION FATIGUE
EROSION CORROSION
FRETTING CORROSION
GALVANIC CORROSION
INTERGRANULAR CORROSION
SCALE /CORROSION/
STRAY CURRENT CORROSION
STRESS CORROSION
TRANSGRANULAR CORROSION
CORROSION AND PROTECTION OF METALS 67-01 M18-58201
ELECTROCHEMICAL STUDY OF THE CORROSION OF METALS 67-01 M18-58435
STRUCTURE AND GROWTH OF THIN OXIDE FILMS ON METALS IN CONTACT WITH OXYGEN 67-01 M18-58702
METALLIC CORROSION AND POSSIBLE CORROSION PROTECTIO 67-02 M18-59815
ON THE MECHANISM OF STRESS CORROSION CRACKING IN AUSTENITIC STAINLESS STEELS 67-03 M18-65844
MECHANISM OF INTERGRANULAR STRESS CORROSION CRACKING IN 70 CU-30 ZN ALLOY 67-03 M18-65845
FUNDAMENTALS OF CORROSION 67-04 M18-66312
A KINETIC STUDY OF THE HETEROGENEOUS REACTIONS OF METALLIC SODIUM WITH CHLORINE AND BROMINE 67-05 M14-68616
BISRAS CORROSION ADVICE BUREAU INVESTIGATES FERROUS METALS IN SERVICE 67-05 M18-68415
THE OXIDATION OF PURE U IN CO2 BETWEEN 700 AND 1000 C 67-05 M18-68637
DESIGNING TO PREVENT CORROSION--PROTECTION OF EQUIPMENT SHOULD BEGIN AT THE DRAWING BOARD 67-05 M18-68793
FUNDAMENTALS OF CORROSION 67-05 M18-68936
KINETICS OF THE ATTACK OF HIGH-TEMPERATURE

MOLYBDENUM AND TUNGSTEN BY ATOMIC OXYGEN
67-06 M14-72165
THE CORROSION OF METALS. PHYSICAL-CHEMICAL PRINCIPLES AND ACTUAL PROBLEMS
67-06 M18-70697
SPECIAL PROBLEMS OF WATER CORROSION FOUND IN NUCLEAR INSTALLATIONS 67-06 M18-71501
ANODIC CORROSION OF NICKEL SINTER IN POSITIVE ELECTRODES OF NICKEL-CADMIUM BATTERIES CONTAINING CARBONATE 67-06 M18-71689
MECHANISM OF MICROBIOLOGICAL CORROSION OF ALUMINUM ALLOYS 67-06 M18-71690
A POSSIBLE ROLE FOR SULFATE REDUCERS IN THE CORROSION OF ALUMINUM ALLOYS 67-06 M18-71691
ALUMINUM CORROSION PROCESSES IN MICROBIAL CULTURES
67-06 M18-71692
DEGRADATION MECHANISMS OF PLATINUM- AND RHODIUM-COATED TITANIUM ANODES IN THE ELECTROLYSIS OF CHLORIDE AND CHLORIDE-CHLORATE SOLUTIONS
67-06 M18-71697
THE INFLUENCE OF THE WATER COMPOSITION ON DECAY OF MATERIALS BY CAVITATION AND CORROSION
67-06 M18-71700
METALLOGRAPHIC STUDIES ON THE COMMENCEMENT OF DESTRUCTION OF METALLIC MATERIALS BY CAVITATION IN WATER OF 50 TO 55 C 67-07 M18-72481
KINETICS OF TANTALUM CORROSION IN AQUEOUS ELECTROLYTES. PT. 2 67-07 M18-73457
KINETIC FEATURES OF STRESS-CORROSION CRACKING
67-07 M18-73697
UTILIZATION OF THE POTENTIOSTATIC PULSE METHOD IN THE STUDY OF CORROSION PROCESSES.
67-07 M18-73698
ROLE OF ANIONS IN THE CORROSION AND CORROSION-INHIBITION OF ZINC IN AQUEOUS SOLUTIONS
67-07 M18-73699
INFLUENCE OF MAGNETIC TRANSFORMATION ON ELECTROCHEMICAL BEHAVIOR OF NI-MO ALLOYS
67-08 M14-74790
ELECTROLYTIC A-C CORROSION OF IRON
67-08 M18-74624
LABORATORY STUDIES OF THE FORMATION OF THE INTERMETALLIC LAYER IN TINPLATE
67-08 M18-74670
ELECTROKINETIC STUDIES ON OXIDIZED ALUMINUM SURFACES 67-08 M18-74788
RESISTANCE TO CORROSION AND STRESS CORROSION
67-08 M18-74808
HOW FLUID VELOCITY AFFECTS CORROSION
67-08 M18-74876
CORROSION TESTING TITANIUM 67-08 M18-75059
FORMATION OF ELEMENTS WITH THE CORROSION OF HOMOGENEOUS MIXED CRYSTALS, AND, ITS EFFECTS
67-08 M18-75060
THIOUREA DERIVATIVES AS VAPOR-PHASE CORROSION INHIBITORS 67-08 M18-75063
THE ATMOSPHERIC CORROSION OF METALS AND MEASURES FOR THEIR PROTECTION UNDER CERTAIN CONDITIONS BY GALVANIC ZN AND CD COATINGS ON STEEL
67-08 M18-75513
EFFECT OF THIOUREAS ON CORROSION OF MILD STEEL IN AQUEOUS MEDIA 67-08 M18-75642
DRY CORROSION OF COBALT-CHROMIUM ALLOYS AT HIGH TEMPERATURE--INFLUENCE OF TERNARY ADDITIONS
67-08 M18-75986
AN EXTREME-VALUE STATISTICAL ANALYSIS OF MAXIMUM PIT DEPTHS AND TIME TO FIRST PERFORATION
67-08 M18-76185
CORROSIN TUNNELS IN STAINLESS STEELS
67-08 M18-76188
SEALING CORROSIVE MATERIALS WITH HARD CARBON ALLOYS
67-08 M18-76197
CREVICE CORROSION OF TI IN BOILING AMMONIUM CHLORIDE SOLUTION 67-08 M18-76249
THE USE OF POLARIZATION CURVES IN INDUSTRIAL STUDIES OF WATER CORROSION 67-09 M18-76490
EFFECTS OF SULFATE IONS ON THE KINETICS OF THE ANODIC DISSOLUTION OF ACTIVE IRON IN ACID SOLUTIONS 67-09 M18-76647
INVESTIGATION OF THE HYDROMECHANICAL EFFECT OF THE IMPACT OF DROPS 67-09 M18-77351
EVALUATION OF CORROSION INHIBITORS FOR A LARGE INDUSTRIAL COOLING SYSTEM 67-09 M18-77483
STABILITY OF THE OXIDE FILM ON METALS IN RELATION TO INHIBITION OF CORROSION. PT. 1. MILD STEEL IN PRESENCE OF AGGRESSIVE ANIONS
67-09 M18-77485
CRITERIA OF SOIL AGGRESSIVENESS TOWARDS BURIED METALS. PT. 2. ASSESSMENT OF VARIOUS SOILS
67-09 M18-77487
CRITERIA OF SOIL AGGRESSIVENESS TOWARDS BURIED METALS. PT. 3. VERIFICATION OF PREDICTED BEHAVIOR OF SELECTED SOILS 67-09 M18-77488
ANODIC BEHAVIOR OF COPPER ELECTRODE IN NACL AQUEOUS SOLUTION 67-09 M18-77876
FORMATION OF ANODIC FILM ON COPPER IN 3 PER CENT NACL AQUEOUS SOLUTION 67-09 M18-77877
EFFECT OF ORGANIC ACIDS ON THE ANODIC DISSOLUTION OF NICKEL ALLOYS 67-09 M18-78028
CORROSION AND COMPATIBILITY 67-09 M18-78163
CORROSION RESISTANCE OF STAINLESS STEELS IN AQUEOUS SOLUTIONS. PT. 1 67-09 M18-78202
ELLIPSOMETRIC-POTENTIOSTATIC STUDY OF IRON PASSIVITY 67-09 M18-78276
SCIENCE FOR ELECTROPLATERS. PT. 117. POROSITY
67-10 M12-78526
CORROSION RESISTANCE OF STAINLESS STEELS IN AQUEOUS SOLUTIONS. PT. 2 67-10 M18-78399
SOME PHENOMENA OBSERVED RELATING TO FILIFORM CORROSION 67-10 M18-78586
INVESTIGATING INTERNAL CORROSION OF COPPER TUBING
67-10 M18-78601
THE CORRODING IRON SURFACE. PT. 1. DISSOLUTION OF IRON IN THE HALOGEN ACIDS 67-10 M18-78663
THE CORRODING IRON SURFACE. PT. 2. HYDROGEN COVERAGE DURING CORROSION 67-10 M18-78664
CONTACT CORROSION WITH ONE-LAYER AND MULTILAYER METAL COATINGS 67-10 M18-78682
THE CORROSION OF IRON IN NITROGEN OXIDE-CONTAINING H2SO4 67-10 M18-78745
CORROSION BEHAVIOUR OF STAINLESS HEAT TREATABLE STEELS WITH APPROXIMATELY 13 PER CENT CR
67-10 M18-79088
CORROSION PROTECTION OF THE INSIDE OF FUEL OIL STORAGE TANKS, COATING OF COLLECTING VESSELS BUILT OF CONCRETE, ETC. 67-10 M18-79089
THE MECHANISM OF SCALE FORMATION ON METALS AND BINARY ALLOYS 67-10 M18-79096
THE FUNDAMENTAL SOF METAL DUSTING
67-10 M18-79372
THE BEHAVIOUR OF STAINLESS STEEL IN SEA-WATER
67-10 M18-79427
A CONTRIBUTION TO THE MECHANISM OF CORROSION INHIBITORS. EFFECTS OF ANIONS
67-10 M18-79561
STUDY OF CORROSION OF FE-NI-CR ALLOYS IN A TUBULAR CELL 67-10 M18-79705
FUNDAMENTAL PRINCIPLES OF CORROSION
67-10 M18-79804
AN INVESTIGATION OF THE DESTRUCTION OF MATERIAL DURING CAVITATION AND CORROSION USING ULTRASONIC TRANSDUCERS 67-10 M18-79883
BEHAVIOR OF ZIRCONIUM ALLOYS IN WATER AND SUPERHEATED STEAM 67-10 M18-79931
AQUEOUS CORROSION BEHAVIOR OF LIGHT ALLOYS
67-10 M18-79932
INFLUENCE OF SURFACE CONDITION ON THE INHIBITING EFFECT OF DIBENZYLSULFOXIDE IN THE DISSOLUTION OF NICKEL IN HCL 67-10 M18-79933
GALVANIC CORROSION CHARACTERISTICS OF ALUMINUM ALLOYED WITH GROUP 4 METALS 67-10 M18-79962
INVESTIGATION OF REDOX POTENTIALS OF AN ELECTROLYTE WITH ADDITION OF METALLIC COPPER
67-10 M18-80008
DEZINCIFICATION OF BRASS 67-10 M18-80009
STRESS CORROSION OF 70/30 BRASS TUBES WITH TENSILE AND COMBINED TENSILE AND HOOP STRESSES
67-10 M18-80011
ALKALI-METAL, RANKINE-CYCLE POWER SYSTEMS FOR ELECTRIC PROPULSION 67-10 M20-79732
THE EVALUATION OF SURFACE CONDITIONS BY THE ACID METHOD 67-11 M12-80500
INFLUENCE OF INCLUSIONS ON THE CORROSION OF METALS BY GASEOUS F COMPOUNDS 67-11 M18-80146
FUEL-WATER REACTIONS 67-11 M18-80464
CORROSION 67-11 M18-80471
THE EFFECT OF ORGANIC ACIDS ON THE ANODIC DISSOLUTION OF NICKEL ALLOYS AND STAINLESS STEELS
67-11 M18-80709
SOME EFFECTS OF FLOW AND AERATION ON THE CORROSION BEHAVIOUR OF NICKEL IN SULPHURIC ACID SOLUTIONS
67-11 M18-80710
COPPER-BASE ALLOYS FOR USE IN SEA-WATER. PT. 2
67-12 M18-82132
ELECTROCHEMICAL PROPERTIES AND CHEMICAL PASSIVITY OF ETCH-RESISTANT SURFACE FILMS ON STEEL
67-12 M18-82185
STEAM CORROSION AND STEAM CORROSION INHIBITION

CORROSION MECHANISMS

67-12 M18-82356
PITTING CORROSION OF AUSTENITIC FE-CR-NI STEELS. FACTORS AFFECTING ATTACK MECHANISMS
67-12 M18-82519
EFFECT OF SILICON ON THE STACKING FAULT ENERGY OF 18 PER CENT CR-10 PER CENT NI STAINLESS STEEL
67-12 M18-82590

CORROSION MECHANISMS, ALLOYING EFFECTS
EFFECT OF ALLOYING ELEMENTS ON THE ANODIC OXIDATION OF ALUMINUM 67-09 M18-78060

CORROSION MECHANISMS, CORROSION
SPECIFIC INFLUENCE OF SOME ADDITIVES ON THE CORROSION OF IRON IN ACID SOLUTIONS
67-10 M18-80007

CORROSION MECHANISMS, RADIATION EFFECTS
THE EFFECT OF NEON BOMBARDMENT ON THE CORROSION OF ZR 67-08 M18-74792

CORROSION PREVENTION
SEE ALSO ANODIC PROTECTION
CATHODIC PROTECTION
IMPRESSED CURRENT PROTECTION
RUST PREVENTION
GALVANIZED STEELS FOR FABRICATED METAL PRODUCTS. PT. 2. FORMING, WELDING, SOLDERING AND PAINTING
67-01 M11-58794
QUICKER SINGLE-LAYER MICROCRACKED CHROMIUM
67-01 M12-57213
FORMATION OF THE ZINC PHOSPHATE FILM ON MILD STEEL
67-01 M12-57614
PROPERTIES OF COATED REFRACTORY METALS. PT. 2
67-01 M12-58003
ORGANIC COATINGS FOR STEEL SHEETS--CONTINUOUS PAINTING LINE 67-01 M12-58489
NEW TECHNIQUE IN OVERLAY VESSEL CONSTRUCTION
67-01 M12-58766
RECOMMENDED DESIGN PRACTICES FOR STOPPING METAL CORROSION 67-01 M18-57232
HOW ZINC CONTROLS CORROSION 67-01 M18-57981
CATHODIC PROTECTION., TECHNIQUE OF CORROSION CONTROL 67-01 M18-58109
CORROSION AND PROTECTION OF METALS
67-01 M18-58201
STUDY OF CORROSION AND CORROSION PROTECTION OF COPPER AND ITS ALLOYS 67-01 M18-58373
THE CORROSION AND CORROSION PROTECTION OF ALUMINUM
67-01 M18-58375
CORROSION BEHAVIOR OF STEEL WELDMENTS
67-01 M18-58394
THE PROTECTIVE MECHANISM OF EMULSIFIABLE OILS AGAINST CAVITATION AND CORROSION
67-01 M18-58438
ANTI-CORROSIVE TREATMENT FOR THE SEVERN BRIDGE
67-01 M18-58511
CORROSION PROTECTION OF ELECTRICAL EQUIPMENT
67-01 M18-58517
INFLUENCE OF INHIBITORS ON CORROSION CRACKING OF HIGH-STRENGTH STEELS 67-01 M18-58704
USE OF MULITLAYER COATINGS FOR CORROSION PROTECTION OF SPRINGS IN WATER AT HIGH
67-01 M18-58706
PREVENTION OF TARNISHING OF SILVER SURFACE
67-01 M18-58710
PROTECTIVE DIFFUSION COATING OF NICKEL ALLOYS
67-01 M18-58711
CORROSION OF WET GAS SCRUBBERS OF BLAST FURNACES AND CONVERTERS 67-02 M04-61950
DECARBURIZING OF STEEL IN SALT BATHS
67-02 M10-61984
REDUCTION OF TARNISHING OF ELECTROPLATED SILVER
67-02 M12-59046
MODERN DEVELOPMENTS AND TRENDS IN ELECTROPLATING
67-02 M12-59970
CONTINUOUS LACQUERING OF GALVANIZED STEEL BANDS
67-02 M12-60140
SOME EXAMPLES OF THE USE OF FLAME-SPRAYED COATINGS FOR PROTECTION AGAINST HOT GASES
67-02 M12-62026
PROTECTION FROM ACID AND ACID FUME CORROSION IN A WIRE MILL 67-02 M18-58975
REDUCING THE DEGREE TO WHICH WELDS IN CARBON AND STAINLESS STEELS ARE CORRODED IN ACID SOLUTIONS
67-02 M18-59792
METALLIC CORROSION AND POSSIBLE CORROSION PROTECTIO
67-02 M18-59815
THE NON-SELECTIVE CORROSION OF ALLOY STEELS IN LIQUID LOW MELTING POINT METALS
67-02 M18-59894
LITERATURE REVIEW OF THE CORROSION AND CORROSION PROTECTION OF AL AND AL ALLOYS
67-02 M18-60033
HOW TO PASSIVATE STAINLESS STEELS
67-02 M18-60245
CORROSION CONTROL STUDIES FOR A RAPID TRANSIT SYSTEM 67-02 M18-60251
REFINERY REACTOR DESIGN TO PREVENT HIGH TEMPERATURE CORROSION 67-02 M18-60253
THE CORROSION PROTECTION OF ALUMINIUM BRASS BY FERROUS OR FERRIC ION 67-02 M18-60272
THE EFFECTIVENESS OF SPRAYED CERAMIC FILMS AS A PROTECTION AGAINST OXIDATION OF STEEL
67-02 M18-60282
NEW PROTECTIVE COATING FOR NON-FERROUS METALS
67-02 M18-61094
ADHESIVE TAPES AS SHORT- AND LONG-TERM CORROSION INHIBITORS 67-02 M18-61642
TEMPORARY PROTECTION OF SILICON SURFACES BY IODINE FILMS 67-02 M18-61771
CHLORINE CORROSION ENCOUNTERED WITH THE GENERATION AND PROCESSING OF LURGI PRESSURE GASIFICATION GAS MADE FROM COAL 67-02 M18-62021
PREVENTION OF CORROSION ON OIL-FIRED BOILERS BY BURNING THE OIL WITH EXTREMELY LOW EXCESS AIR
67-02 M18-62031
CORROSION-INHIBITING ADDITIVES IN OIL-FIRED BOILERS
67-02 M18-62032
ELECTROPOLISHING AS A PRETREATMENT TO THE APPLICATION OF PLASTIC-BASED PAINTS ON METALLIC BASES OF VARYING COMPOSITION 67-03 M18-65177
HOW AUTO ENGINEERS ARE ATTACKING THE CORROSION PROBLEM 67-03 M18-65209
ZINC AND ITS ALLOYS--APPLICATIONS
67-03 M18-65451
SOME VAPOR PHASE INHIBITOR EXPERIMENTS
67-03 M18-65474
ADDITIVES PREVENT LOW CARBON STEEL CORROSION IN SULFUROUS ACID 67-03 M18-65475
CORROSION PROTECTION OF WEATHER DECKS OF NAVAL SHIPS 67-03 M18-65730
RECENT TRENDS IN THE STUDY OF CORROSION INHIBITORS
67-03 M18-65836
PROGRESS IN THE BATTLE WITH CORROSION OF AUTOMOBILES 67-03 M18-65975
PROTECTION OF STEEL BY METAL SPRAYING.. A REVIEW
67-03 M18-65993
CORROSION OF SCRUBBERS IN PLANT FOR THE WET CLEANING OF BLAST-FURNACE AND CONVERTER GASES
67-04 M04-67764
ELECTROPAINTING AT MASSEY-FERGUSON TRACTORS
67-04 M12-66720
STAINLESS STEEL PIGMENTED COATINGS
67-04 M12-66800
POLYMER COATING OF THE INTERNAL SURFACE IN PIPES
67-04 M12-66817
RETARDATION OF THE OXIDATION RATES OF NIOBIUM, TANTALUM AND TUNGSTEN BY FLUORIDE COATING
67-04 M18-66164
FUNDAMENTALS OF CORROSION 67-04 M18-66312
UNDERWATER COATINGS USE 67-04 M18-66313
PRODUCTS, DEVELOPMENTS, APPLICATIONS FOR CORROSION ENGINEERING--FLAME-SPRAYED ALUMINUM COATINGS FOR MARINE ENVIRONMENTS 67-04 M18-66319
PROTECTIVE PAINTS FOR STRUCTURAL STEELS
67-04 M18-66559
IMPROVEMENT IN CORROSION RESISTANCE OF DECORATIVE NICKEL-CHROMIUM DEPOSITS 67-04 M18-66721
AEROSOL CANS MADE OF AL--THEIR CORROSION AND INTERNAL PROTECTIVE COATING 67-04 M18-68124
THE REDUCTION OF COUMARIN IN THE ELECTRODEPOSITION OF NICKEL 67-05 M12-68821
ALTERNATIVES TO CADMIUM PLATE 67-05 M12-68828
FURTHER RESULTS WITH NEW METAL-PIGMENTED PAINTS
67-05 M12-68830
STUDIES ON THE BEHAVIOUR OF THIOUREA IN BRIGHT NICKEL PLATING 67-05 M12-68832
BENZOTRIAZOLE AND RELATED COMPOUNDS AS CORROSION INHIBITORS FOR COPPER 67-05 M18-68311
TEMPORARY CORROSION PREVENTIVES
67-05 M18-68416
IMPROVEMENT IN CORROSION RESISTANCE OF DECORATIVE NICKEL-CHROMIUM PLATING 67-05 M18-68417
SURFACE HARDENING, CORROSION AND SCALING PROTECTION OF STEEL BY METALLIC SURFACE IMPREGNATION
67-05 M18-68734
AIRCRAFT EXFOLIATION CORROSION--METHODS FOR PREVENTION IN FASTENER HOLES 67-05 M18-68797
INVESTIGATION OF THE POSSIBLE PREVENTION OF THE STRESS CORROSION OF BRASS BY NONMETALLIC INORGANIC AND ORGANIC COATINGS

67-05 M18-68921
EPOXY SURFACE COATINGS 67-05 M18-68922
CORROSION PROTECTION THROUGH BLUEING AND BLACKING 67-05 M18-69104
THE RELATIONSHIP BETWEEN CORROSION, STRESS AND THE FE3O4 LAYERS 67-05 M18-69333
THE INHIBITION OF PITTING AND STRESS-CORROSION CRACKING OF MG-AL ALLOYS BY NO3 67-05 M18-69707
BASIC PRINCIPLES FOR STRUCTURING CORROSION RESISTANT ALLOYS 67-05 M18-69821
INVESTIGATION OF CORROSION INHIBITION EFFECT OF NITRIC ACID DURING CORROSION TESTING OF TITANIUM IN SULFURIC ACID SOLUTIONS 67-05 M18-69825
INVESTIGATION OF SOME ACETYLENE COMPOUNDS FOR INHIBITION OF ACID CORROSION 67-05 M18-69833
COVERAGE OF IRON SURFACE BY ORGANIC COMPOUNDS AND ANIONS IN ACID SOLUTIONS 67-05 M18-69839
STRUCTURE AND MECHANISM OF FORMATION OF OXIDE FILMS ON FE SINGLE CRYSTALS BY NANO2 67-05 M18-69840
OXIDATION AND SELF-REPAIR OF THE ZINC-BASED HIGH TEMPERATURE COATING FOR NIOBIUM 67-05 M18-69841
CORROSION OF REINFORCING MATERIALS IN REINFORCED PRESTRESSED CONCRETES 67-05 M18-69893
NEW COATINGS FOR ZINC 67-06 M12-70727
USE OF TITANIUM CHIPS FOR OXIDATION PROTECTION OF IRON DURING HEATING 67-06 M18-70078
PREVENTION OF VANADIUM PENTOXIDE ATTACK OF REFORMER TUBES BY MAGNESIUM COMPOUNDS 67-06 M18-70543
CORROSION OF MILD STEEL DUE TO IMPINGEMENT IN THE MAKE-GAS STREAM 67-06 M18-70544
CORROSION IN CENTRIFUGAL AIR COMPRESSORS 67-06 M18-70545
CORROSION PROBLEMS ON FINNED AIR-COOLED HEAT EXCHANGER TUBING 67-06 M18-70546
SELECTIVE PLATING OF CAVITIES IN PLASTICS MOULDING DIES 67-06 M18-70710
LOUISIANA PRODUCTS LINE COATED WITH ZINC SILICATE SYSTEM 67-06 M18-70893
EPOXY COATING REPORT FROM U. K 67-06 M18-70894
THE CORROSION RESISTANCE OF PAINTED STEEL SHEETS AT VARIOUS ATMOSPHERIC RELATIVE HUMIDITIES 67-06 M18-71180
THICK FILM COATED TUBING. INTERNAL COATINGS FOR OIL FIELD TUBULAR GOODS 67-06 M18-71226
PROTECTION WITH MORTAR COATINGS. COATING THICKNESS GOVERNS DEGREE OF PROTECTION 67-06 M18-71230
CHEMICAL TREATMENT OF STAINLESS STEEL TUBES FOR PREVENTION OF PITTING CORROSION 67-06 M18-71264
SYSTEMATIC INVESTIGATION OF THE POSSIBLE PROTECTION OF BRASS AGAINST STRESS CORROSION BY ELECTROPLATING 67-06 M18-71505
STEEL TOWERS POPULATE THE SEAS 67-06 M18-71670
PROTECTION OF FERROUS CONSTRUCTION AGAINST CORROSION 67-06 M18-71730
CORROSION OF AL PRODUCTS PRIOR TO INSTALLATION AND MEANS FOR AVOIDING IT 67-06 M18-71986
PROTECTION OF IRON AND STEEL STRUCTURES FROM CORROSION 67-06 M18-72257
CORROSION RESISTANCE OF POROUS MATERIALS PRODUCED BY HOT COMPACTION OF STEEL SHIPS 67-06 M18-72333
CORROSION CONTROL AT THE CAPE 67-06 M18-72336
NITRITE AS A CORROSION INHIBITOR--CONTROLLING DEPLETION OF SODIUM NITRITE 67-06 M18-72339
EPOXY RESINS FOR CORROSION PROTECTION 67-07 M05-72541
USING MOLTEN GLASS TO HEAT STEEL BILLETS 67-07 M10-73955
SURFACING WITH BRONZE 67-07 M11-74277
GALVANOTHERMAL METHOD FOR PRODUCTION OF FE-NI-CR COATINGS 67-07 M12-73657
NEW DEVELOPMENTS IN CORROSION PROTECTION AT CHEMICAL PLANTS BY METAL SPRAYING --METALLIZATION-- 67-07 M12-73725
PROTECTION OF COPPER BY DIFFUSION COATING WITH ALUMINUM 67-07 M12-74190
OXIDATION-RESISTANT COATINGS FOR REFRACTORY METALS 67-07 M12-74252
GEARS AND THEIR LUBRICATION 67-07 M17-73691
CORROSION PREVENTION IN THE ROYAL AUSTRALIAN NAVY 67-07 M18-72539
CORROSION PREVENTION IN THE MERCHANT MARINE 67-07 M18-72540
INHIBITORS FOR AQUEOUS SOLUTIONS 67-07 M18-72821
PROTECTION OF TITANIUM ALLOYS FROM HIGH-TEMPERATURE GAS CORROSION 67-07 M18-73016
SOME PROMISING PROCESSES TO PROTECT SINTERED IRON AND STEEL AGAINST CORROSION 67-07 M18-73230
HOT DIP GALVANIZING AS CORROSION PROTECTION 67-07 M18-73232
THE CORROSION PROTECTION OF STEEL STRUCTURES BY SPRAY GALVANIZING 67-07 M18-73233
CORROSION BEHAVIOR OF ZINC DUST-CONTAINING PAINTS AND OF HOT DIP GALVANIZED COATINGS IN INDUSTRIAL ATMOSPHERES 67-07 M18-73236
PROTECTIVE EFFECT OF PROPARGYL ALCOHOL DURING CORROSION OF NICKEL IN SULFURIC ACID 67-07 M18-73650
ELECTROCHEMICAL CORROSION IN HIGH-PRESSURE TECHNOLOGY 67-07 M18-73727
OXIDATION PROTECTION OF BERYLLIUM AT HIGH TEMPERATURES 67-07 M18-73752
ADOPTION OF MODIFIED GERMAN STANDARDS FOR INHIBITION OF PIPE CORROSION IN AUSTRIA 67-07 M18-74004
INTERNATIONAL PROTECTION OF NETWORKS AGAINST CORROSION 67-07 M18-74005
CORROSION AND PROTECTIVE METHODS 67-07 M18-74161
ALUMINUM COATING OF URANIUM REACTOR PARTS FOR CORROSION PROTECTION 67-07 M18-74241
BOILER SCALE REDUCED BY MAGNETIC TREATMENT 67-07 M18-74247
EXPERIMENTS ON GAS PROTECTION OF POROUS REFRACTORY MATERIALS AGAINST OXIDATION AND EROSION IN PLASMA FLOWS 67-08 M09-74315
DEVELOPMENTS IN PRETREATMENT AND FINISHING OF ZINC-COATED PRODUCTS 67-08 M12-74396
FIVE YEAR TEST RESULTS--AISI RESEARCH PROJECT ON PAINTABILITY OF GALVANIZED STEEL 67-08 M12-74475
TWO PAGES OF REPRODUCIBLE DATA TABLES-- PROTECTIVE FINISHES 67-08 M12-74602
FABRICATION OF PLATED STRUCTURAL MEMBERS-- COMPARISON OF ROLL PLATING AND SURFACING 67-08 M12-75788
PREVENTION OF CORROSION 67-08 M18-74601
STUDIES ON PROTECTIVE METHODS OF STEEL STRUCTURES AT HARBORS. PROTECTIVE EFFECT OF ZINC COATING ON STEEL BELOW SEA WATER LEVEL. PT. 2 67-08 M18-74679
CONTROL OF CORROSION AT MECHANICAL JOINTS 67-08 M18-74706
PROTECTING TITANIUM ALLOYS AGAINST OXIDATION 67-08 M18-75096
QUATERNARY AMMONIUM INHIBITORS OF ACID CORROSION, AND THEIR ADSORPTION AT METAL SURFACES 67-08 M18-75549
A SYSTEMATIC INVESTIGATION OF THE POSSIBILITY OF PREVENTING THE STRESS CORROSION OF BRASS BY ELECTROLYTIC COATING. PT. 2. DISCUSSION AND EVALUATION OF EXPERIMENTAL RESULTS 67-08 M18-75669
CHEMICAL TREATMENT OF STAINLESS STEEL TUBES TO ELIMINATE RUSTY SPOTS 67-08 M18-75733
FIELD TESTING A NEW ALUMINUM ANODE. AL-HG-ZN GALVANIC ANODE FOR SEA WATER APPLICATIONS 67-08 M18-75740
WELL TREATMENT WITH INERT GAS. INERT GAS VS SQUEEZE FOR CORROSION CONTROL 67-08 M18-75741
EVALUATION OF THICK FILM COATINGS. CORROSION PROTECTION FOR OIL CONTRY TUBING 67-08 M18-75746
MINISTRY OF WORKS CURRENT PRACTICE FOR THE PROTECTION OF STEELWORK ON BRIDGES AND POWER SCHEMES 67-08 M18-76199
ANTICORROSION PROTECTION OF STEEL TUBES BY VARNISH COATINGS 67-08 M18-76280
CORROSION PREVENTION IN CONTACT SULPHURIC ACID PLANT EQUIPMENT 67-09 M12-78099
USE OF ACID CORROSION INHIBITORS FOR CORROSION PROTECTION OF HIGH-STRENGTH CARBON STEELS 67-09 M18-76433
SULFIDE CORROSION CRACKING OF WELDABLE HIGH-STRENGTH STRUCTURAL STEEL AND COUNTERMEASURES 67-09 M18-77097
ACTUAL STATE OF CORROSIVE FACTORS ACTING ON PIPELINE CLASSIFIED BY ENVIRONMENT AND PREVENTING METHODS THEREOF 67-09 M18-77337
THE INFLUENCE OF THE GEOMETRIC AREA OF A SURFACE UPON CORROSION AND INHIBITION PHENOMENA 67-09 M18-77703
THE SELECTION OF CHEMICAL TREATMENTS OF

ANTICORROSION PROTECTION AND PAINT ADHESION ON METAL SURFACES--A CONTINUOUS COAT 67-09 M18-77704
PROTECTION OF VEHICLES AGAINST CORROSION 67-09 M18-78023
PROTECTIVE VALUE OF METALLIC COATINGS AND COATING THICKNESS REQUIRED 67-09 M18-78024
POSSIBLE PREVENTION OF THE STRESS CORROSION OF BRASS BY ACTIVE PROTECTION 67-09 M18-78177
MAGNESIUM ALLOYS IN TERPHENYLS--CORROSION INHIBITORS 67-09 M18-78260
DECARBONIZATION OF STEEL IN SALT BATHS 67-10 M10-78841
ZINC IN ANTICORROSION COATINGS 67-10 M12-78918
OXIDATION-RESISTANT COATINGS FOR REFRACTORY METALS 67-10 M12-79199
VITREOUS ENAMELLING TREBLES HEATER-TUBE LIFE 67-10 M12-79787
THE POLYURETHANES 67-10 M12-79930
MAGNESIUM CORROSION PROBLEMS 67-10 M18-78461
THE BEHAVIOR OF SODIUM SILICATE AS A CORROSION INHIBITOR FOR ALUMINUM IN ALKALINE SOLUTIONS 67-10 M18-78467
STRESS CORROSION IN ALUMINUM ALLOYS 67-10 M18-78474
PROGRESS IN THE BATTLE WITH CORROSION OF AUTOMOBILES 67-10 M18-78501
NONUNIFORM CORROSION FAILURE AND CORROSION PROTECTION OF STEEL SMOKESTACKS 67-10 M18-78544
MICROCRACKED CHROMIUM PLATE IMPROVES CORROSION RESISTANCE 67-10 M18-78576
STUDIES IN CORROSION OF MAGNETITE-COATED MILD STEEL IN WATER 67-10 M18-78611
CORROSION PREVENTION BY SUITABLE DESIGN IN PRACTICE 67-10 M18-78683
USE OF TITANIUM CHIPS FOR PROTECTION OF IRON AGAINST OXIDATION DURING HEATING 67-10 M18-78824
ANTICORROSION PROTECTION OF STEEL TUBES BY COATINGS OF LACQUER 67-10 M18-79273
PROTECTING REFRACTORY METALS AGAINST OXIDATION 67-10 M18-79374
SOME NOTES ON CURRENT DISTRIBUTION IN CATHODIC PROTECTION SYSTEMS 67-10 M18-79429
MGO INJECTION SLOWS BOILER CORROSION. PT. 2 67-10 M18-79476
A CONTRIBUTION TO THE MECHANISM OF CORROSION INHIBITORS. EFFECTS OF ANIONS 67-10 M18-79561
INFLUENCE OF SURFACE CONDITION ON THE INHIBITING EFFECT OF DIBENZYLSULFOXIDE IN THE DISSOLUTION OF NICKEL IN HCL 67-10 M18-79933
THE PREPARATION AND PRETREATMENT OF METAL SURFACES 67-10 M18-80097
CHEMICAL SURFACE TREATMENTS 67-10 M18-80100
HOT DIP GALVANIZING--NEW METHODS FOR AN OLD PROCESS 67-11 M12-80662
MYRIAD NEW SURFACE ALLOYS VIA ELECTROLYSIS 67-11 M12-80790
PROTECTIVE COATINGS FOR METALS 67-11 M12-80801
THE PRESENT STAND OF METAL SPRAY TECHNOLOGY. PT. 3 67-11 M12-81135
PERMANENT PROTECTION FOR ELECTRICAL EQUIPMENT AND APPARATUS 67-11 M12-81256
CORROSION PROTECTION 67-11 M12-81358
THE PRODUCTION OF NONMETALLIC AND METALLIC PROTECTIVE SURFACE LAYERS ON SINTERED IRON 67-11 M18-80341
HOW SHELL USES COMPUTER IN CORROSION CONTROL PROGRAM 67-11 M18-80512
PRINCIPAL METHODS OF PROTECTING STEEL FROM HYDROGEN CORROSION 67-11 M18-80593
PROTECTING STEEL FROM HYDROGEN EMBRITTLEMENT IN ACID MEDIA BY USING INHIBITORS 67-11 M18-80600
SPECIAL PROTECTION OF HIGHLY-HEAT RESISTANT MATERIALS 67-11 M18-80698
THE INTENSITY OF THE REMOTE PROTECTION EFFECT OF ZN ON STEEL IN AIR 67-11 M18-81029
USE OF SHEET PRETREATED BY ZINC COATING IN THE FABRICATION OF CABINETS FOR ELECTRICAL APPARATUS 67-11 M18-81236
INHIBITING CORROSION OF REACTOR PRESTRESSING CABLES 67-11 M18-81245
EFFECT OF KATAPIN K ON THE CORROSION BEHAVIOR OF CERTAIN METALS AND ALLOYS IN SULFURIC ACID 67-11 M18-81282
SELECTION OF INHIBITORS FOR LONG-TERM CONSERVATION OF WATER SYSTEMS 67-11 M18-81283
POLYURETHANE-BASED PROTECTIVE LACQUERS FOR COPPER AND ZINC 67-11 M18-81490
CORROSION OF AUTOCLAVE JACKETS SUBJECTED TO A STEAM-WATER CYCLE 67-11 M18-81553
USE OF GLASS-BASED SUSPENSION COATINGS TO PROTECT METAL FROM OXIDATION DURING HEATING 67-12 M12-81719
CHEMICAL DERUSTING IN THE PRODUCTION LINE 67-12 M12-82131
FLUIDIZED BED EPOXY COAT PROTECTS SONAR 67-12 M12-82382
LEAD PHOSPHATE PROTECTS STEEL AND PRESERVES ITS WELDABILITY 67-12 M12-82646
PROTECTIVE COATINGS FOR REFRACTORY METALS 67-12 M12-82927
SOME ASPECTS OF CORROSION PROBLEMS ASSOCIATED WITH STORAGE TANKS 67-12 M18-82130
BASIC PRINCIPLES IN THE CREATION OF CORROSION-RESISTANT METAL ALLOYS 67-12 M18-82255
INVESTIGATION OF THE MECHANISM OF PROTECTION OF TITANIUM BY ADDITION OF NITRIC ACID TO SULFURIC ACID SOLUTIONS 67-12 M18-82259
ON USING EXOELECTRON EMISSION AND ELLIPSOMETRY FOR INVESTIGATING INHIBITORS AND STIMULATORS OF ATMOSPHERIC CORROSION OF METALS 67-12 M18-82305
SCIENCE FOR ELECTROPLATERS. PT. 118. POROSITY 67-12 M18-82708
SELECTION OF METALS FOR MARINE APPLICATIONS 67-12 M18-83226

CORROSION PREVENTION, POWDER METALLURGY
PROTECTION OF IRON POWDER BY AZELATES OF HEAVY METALS 67-02 M09-62175
PROTECTION OF IRON POWDER BY HEAVY-METAL AZELATES 67-08 M09-75951

CORROSION PREVENTION, STANDARDS
THE STANDARDIZATION OF CORROSION-PROTECTED FASTENERS 67-07 M18-74254

CORROSION PRODUCTS
SEE ALSO SCALE /CORROSION/
THE EXAMINATION OF CORROSION PRODUCTS AND PROCESSES. PT. 1. WET AND ELECTROCHEMICAL METHODS 67-06 M19-72255

CORROSION PRODUCTS, ANALYZING
SOME IMPORTANT TECHNIQUES IN CORROSION STUDIES 67-07 M18-73300

CORROSION PRODUCTS, CLEANING
CORROSION TEST COUPONS--MECHANICAL CLEANING 67-01 M12-58768

CORROSION PRODUCTS, MICROSTRUCTURE
APPLICATIONS OF THE SCANNING ELECTRON MICROSCOPE TO OXIDE SURFACES 67-04 M18-67490

CORROSION RESISTANCE
PHASE ANALYSIS OF OXIDE FILMS ON FE-AL POWDER COMPOSITES 67-01 M09-58175
PLASTIC COATING OF STEEL SHEETS 67-01 M12-57211
HEAVY ELECTRODEPOSITION FOR THE ENGINEER. PT. 4. HARD CHROMIUM PLATING 67-01 M12-57558
COATINGS ON REFRACTORY METALS. PT. 3 67-01 M12-58004
LACQUERING, COATING AND LAMINATION OF WIDE STRIP 67-01 M12-58111
STRUCTURE OF HOT GALVANIZED COATINGS. PT. 2. EFFECT OF ALUMINUM ADDITIONS 67-01 M12-58304
THE ATMOSPHERIC-CORROSION-RESISTANT STEEL, SUMITOMO CR2-50 67-01 M17-58249
ALUMINUM AND ALUMINUM ALLOYS IN SHEET, PLATE AND TUBE FORM 67-01 M17-58306
EMBRITTLEMENT OF HIGH STRENGTH AISI 4340 STEEL IN BOILING NACL SOLUTION 67-01 M17-58484
HOT CORROSION OF REFRACTORY ALLOYS BY COMBUSTION DEPOSITS CONTAINING LEAD 67-01 M18-57161
TITANIUM AND ITS ALLOYS USED IN CHEMICAL ENGINEERING AS CORROSION-RESISTANT MATERIALS 67-01 M18-57597
EFFECT OF OXYGEN CONTENT AND HEAT TREATMENT ON THE CORROSION RESISTANCE OF AT3 AND AT8 ALLOYS 67-01 M18-57598
INVESTIGATION OF THE CORROSION RESISTANCE AND ELECTROCHEMICAL AND MECHANICAL PROPERTIES OF ALLOYS OF THE TITANIUM-NIOBIUM SYSTEM 67-01 M18-57641
WHY COPPER-NICKEL ALLOYS FOR DESALINATION 67-01 M18-57970
INVESTIGATION ON THE CORROSION OF ZIRCONIUM IN ORGANIC SOLUTIONS IN THE PRESENCE OF HYDROGEN CHLORIDE 67-01 M18-58233

STUDY OF CORROSION OF WELDED ALZNMG ALLOY
67-01 M18-58364
CORROSION RESISTANCE OF STEEL-CORED ALUMINUM AND ALUMINUM ALLOY CONDUCTORS 67-01 M18-58365
INVESTIGATIONS ON THE CORROSION OF ZIRCONIUM IN ELECTROLYTIC SOLUTIONS BY THE USE OF RADIONUCLIDES 67-01 M18-58385
TITANIUM-PERFORMANCE UP, COST DOWN
67-01 M18-58500
UNDERSTANDING THE STRESS-CORROSION BEHAVIOR OF STAINLESS STEELS 67-01 M18-58518
ON THE CORROSION RATE OF CAST IRON BY SULFUR DIOXIDE 67-01 M18-58545
NICKEL ALLOYS FIGHT BACK AT CORROSION
67-01 M18-58590
A CASE HISTORY OF TITANIUM STRESS CORROSION IN NITROGEN TETROXIDE 67-01 M18-58728
HYDROGEN PENETRATION OF STEEL--SAE 1020 STEEL EXPOSED TO H2S-CO2-H2O 67-01 M18-58764
THE USE OF TITANIUM IN THE PULP AND PAPER INDUSTRY 67-01 M20-58767
THE OXIDATION RESISTANCE OF ALLOYS OF ZIRCONIUM BORIDE WITH MOLYBDENUM DISILICIDE
67-02 M09-62212
AIR-ARC FUSION OF DEFECTIVE PORTIONS OF WELDED JOINTS IN STAINLESS STEELS 67-02 M11-60840
THE BULK ELECTROPLATING OF SMALL PRODUCTS OF FERROUS POWDER METALLURGY 67-02 M12-60031
THE PROPERTIES OF LOW-CARBON IRON-NICKEL-CHROMIUM MARTENSITES 67-02 M17-59426
EFFECT OF NIOBIUM ON CRACK INITIATION IN 2KH13L STEEL 67-02 M17-59650
AN IRON BASE ALLOY 67-02 M17-59954
REPORT OF BRITTLENESS IN HIGH-STRENGTH STEEL WIRES
67-02 M17-60867
CORROSION RESISTANCE OF GOLD 67-02 M18-58908
CORROSION RESISTANCE OF COATING COMPOSED OF ZINC AND OTHER METALS--CORROSION PREVENTION OF TRACK MATERIALS 67-02 M18-59159
A STUDY ON CORROSION RATES OF STRANDS BY MAGNETIC MEASUREMENTS 67-02 M18-59161
CORROSION TESTING FOR 18 CR STAINLESS STEEL
67-02 M18-59162
TWO CORROSION RESISTANT STEELS FROM JAPAN
67-02 M18-59466
SOME CORROSION PROBLEMS ARISING IN HEAT EXCHANGERS IN THE CHEMICAL INDUSTRY 67-02 M18-59485
STRUCTURAL-KINETIC INVESTIGATION OF OXIDIZABILITY OF TITANIUM ALLOYS
67-02 M18-59644
THE EFFECTS OF CLO ION ON THE CORROSION BEHAVIORS OF STAINLESS STEELS IN CONCENTRATION CAUSTIC SODA SOLUTIONS 67-02 M18-59736
EFFECT OF NITRIC ACID ON THE CORROSION AND ELECTROCHEMICAL BEHAVIOR OR TITANIUM IN TITANIUM IN SOLUTIONS OF MINERAL ACIDS --HCL AND H2SO4--
67-02 M18-59784
INVESTIGATION OF THE CORROSION AND ELECTROCHEMICAL BEHAVIOR OF TITANIUM AND ITS ALLOYS IN SOLUTIONS OF PERCHLORIC ACID 67-02 M18-59787
REDUCING THE DEGREE TO WHICH WELDS IN CARBON AND STAINLESS STEELS ARE CORRODED IN ACID SOLUTIONS
67-02 M18-59792
CORROSION AND ELECTROCHEMICAL BEHAVIOR OF TITANIUM AND ITS ALLOYS IN EXTRACTING PHOSPHORIC ACID
67-02 M18-59898
ON THE STRESS-CORROSION RESISTANCE OF SILICON BRASS WITH AND WITHOUT SURFACE PROTECTION BY ELECTROPLATING 67-02 M18-59972
IMPROVEMENTS IN THE CORROSION RESISTANCE OF ELECTROPLATED LAYERS OF THE CU-NI-CR SYSTEM FOR USE IN THE AUTOMOTIVE INDUSTRY
67-02 M18-60032
CORROSION OF STEELS BY SEA WATER
67-02 M18-60043
KINETICS AND ACTIVATION ENERGY OF OXIDATION OF ALLOYS IN THE NB-V-TI SYSTEM 67-02 M18-60099
KINETICS AND MECHANISM OF OXIDATION OF BINARY NICKEL ALLOYS WITH TITANIUM 67-02 M18-60100
THE CORROSION RESISTANCE OF A 13 PER CENT CR STEEL IN AQUEOUS SOLUTIONS OF SALTS
67-02 M18-60211
REFINERY REACTOR DESIGN TO PREVENT HIGH TEMPERATURE CORROSION 67-02 M18-60253
THE EFFECT OF DESIGN CONSIDERATIONS ON THE CORROSION RESISTANCE OF WELDED JOINTS
67-02 M18-60616
CHROMALUMINIZING 67-02 M18-60861
INTERCRYSTALLINE CORROSION SUSCEPTIBILITY OF LOW CARBON AND STABILISED AUSTENITIC STAINLESS STEELS
67-02 M18-60915
APPLICATION OF TITANIUM IN CHEMICAL AND NUCLEAR INDUSTRIES 67-02 M18-60982
THE CORROSION BEHAVIOR OF AL IN PHENOL
67-02 M18-60985
CORROSION RESISTANCE OF SOME METALS IN SULFURIC-ALKALINE BYPRODUCTS OF OIL REFINING
67-02 M18-60996
CORROSION RESISTANCE OF PEARLITIC-FERRITIC MALLEABLE CAST IRON 67-02 M18-61200
MECHANICAL AND CORROSION PROPERTIES OF SHEETS OF VD3 ALLOY 67-02 M18-61287
APPLICATIONS OF STEELS FOR DESALINATION PLANTS
67-02 M18-61538
CORROSION OF COPPER-ZINC ALLOYS UNDER THE EFFECT OF ALTERNATING CURRENT 67-02 M18-61562
HIGH-TEMPERATURE OXIDATION OF NICKEL-SILICON-ALUMINIUM ALLOYS 67-02 M18-61668
CORROSION RESISTANCE OF STEELS USED FOR COMPONENTS OF METALLURGICAL EQUIPMENT 67-02 M18-61751
THERMOGRAVIMETRIC INVESTIGATIONS OF SUBSTANCES CONTAINING SULFATE WITH HIGH-TEMPERATURE CORROSION ON THE FIRE SIDE OF COAL-FIRED BOILERS
67-02 M18-62009
SOME VIEWPOINTS ON HIGH-TEMPERATURE CORROSION WITH THE COMBUSTION OF GAS, COAL AND OIL
67-02 M18-62013
OBSERVATIONS ON CORRODED PARTS OF A STATIONARY 10 MW GAS TURBINE 67-02 M18-62014
HIGH-TEMPERATURE CORROSION BY PRODUCTS OF COMBUSTION OF FUEL OILS OF HIGH AND MEDIUM DENSITY 67-02 M18-62015
TYPES OF CORROSION, AND THE BEHAVIOR OF METALS AND ADDITIVES IN FIRING PLANTS 67-02 M18-62016
INVESTIGATIONS ON THE HIGH-TEMPERATURE CORROSION OF OIL-FIRED BOILERS 67-02 M18-62017
HIGH-TEMPERATURE CORROSION TESTS WITH DIFFERENT HEAT RESISTANT MATERIALS IN AN OIL/GAS FIRED INDUSTRIAL BOILER 67-02 M18-62019
ANODIC CORROSION PROCESSES ON STEEL IN INERT AND OXIDIZING ATMOSPHERES 67-02 M18-62020
ALKALI SULFATE CORROSION IN STEEL RECUPERATORS AND BOILER PLANTS 67-02 M18-62022
THE RESISTANCE OF ALLOYS TO HIGH TEMPERATURE CORROSION BY PRODUCTS OF COMBUSTION
67-02 M18-62024
CORROSION PHENOMENA AT REFRACTORY TAMPING MASSES IN THE COMBUSTION CHAMBERS OF HIGH-PRESSURE STEAM POWER STATIONS 67-02 M18-62027
COMBUSTION-TECHNOLOGICAL MEASURES TO COMBAT CORROSION IN COAL SMELTING BOILERS
67-02 M18-62029
PREVENTION OF SUPERHEATER CORROSION IN OIL-FIRED HIGH-TEMPERATURE BOILERS 67-02 M18-62030
NEW VALVE TYPES FOR INDUSTRIAL APPLICATIONS. BALL VALVES 67-02 M20-59829
CORROSION-RESISTANT COPPER ALLOY MAY DOOM STEEL TUBING FOR HYDRAULIC BRAKE LINES
67-02 M20-61641
HEAT TREATMENTS OF ALUMINUM ALLOYS
67-03 M10-65949
IMPROVING TINPLATES ALLOY LAYER
67-03 M12-65164
MODERN PRACTICES FOR FINISHING ALUMINUM--ANODIZING AND SEALING 67-03 M12-65976
RARE METALS AND THEIR ALLOYS AS MATERIALS FOR MODERN TECHNOLOGY 67-03 M17-65181
EXAMINATION OF FUEL AND CLADDING IN PWR-1 BLANKET RODS 67-03 M18-65019
THE MECHANISM OF PROTECTION BY ORGANIC COATINGS
67-03 M18-65153
A RAPID METHOD FOR THE DETERMINATION OF CORROSION SUSCEPTIBILITY OF STEEL 67-03 M18-65183
PROBLEMS OF CORROSION OF BERYLLIUM IN CARBON DIOXIDE UNDER PRESSURE AT HIGH TEMPERATURES
67-03 M18-65259
EFFECTS OF MO, CU, SI AND P ON ANODIC BEHAVIOR OF 17 CR STEELS 67-03 M18-65404
ENVIRONMENTAL EFFECTS ON TITANIUM ALLOYS
67-03 M18-65406
CORROSION OF TITANIUM 67-03 M18-65431
HIGHLY ALLOYED STAINLESS SHEET SHOWN TO RESIST DILUTE HOT ACID IMPINGEMENT IN PICKLING BOOTH
67-03 M18-65470
INHIBITION OF THE CORROSION OF ALUMINIUM-MANGANESE ALLOY.. STUDIES WITH THIOUREA AND DIPHENYL THIOUREA 67-03 M18-65681
SURFACE PROTECTION BY METAL DIFFUSION

67-03 M18-65706
THE CORROSION PERFORMANCE OF VARIOUS METALS IN CONCRETE 67-03 M18-65729
THE ALKALI CORROSION OF BOILER TUBES 67-03 M18-65823
A NEW METHOD FOR THE DETERMINATION OF CORROSION RESISTANCE OF STEEL 67-03 M18-65832
COATING OF BOLTS TO PREVENT SEIZURE 67-03 M18-65986
GERMAN SILVERS IN THE FIRST AND SECOND CATEGORIES. PT. 3 AND 4 67-04 M01-66667
CERAMIC-METAL COMPOSITES 67-04 M09-66280
THE BOLTING OF AL 67-04 M11-67066
QUALITY OF RESISTANCE BUTT WELDED ZIRCONIUM ALLOY TUBES 67-04 M11-67809
AIR-ARC GOUGING OF DEFECTIVE PORTIONS FROM WELDS IN STAINLESS STEELS 67-04 M11-67997
CORROSION PREVENTION BY ZINC-RICH PAINT SYSTEMS 67-04 M12-66659
ALUMINIUM BUSBARS IN PLATING 67-04 M12-68164
MACHINABILITY AND CORROSION RESISTANCE OF 1CR18NI12M02TI STEELS 67-04 M18-66021
ACID RESISTANT, HIGH-ALLOY SI CAST IRON 67-04 M18-66187
CORROSION-RESISTANT FEATURES OF NICKEL AND NICKEL-BASE ALLOYS 67-04 M18-66231
NEW YORK HARBOR CORROSION--PORT OF NEW YORK AUTHORITY CONDUCTS PILE SURVEY 67-04 M18-66317
INCREASING THE LIFE OF COMPRESSOR VALVE PLATES 67-04 M18-66346
CORROSION STUDIES OF TUNGSTEN MOLYBDENUM AND RHENIUM IN LITHIUM 67-04 M18-66390
EFFECT OF HEAT TREATMENT ON THE CORROSION RESISTANCE OF ZIRCONIUM ALLOYS 67-04 M18-66401
CORROSION RESISTANCE OF STRUCTURAL MATERIALS IN SODIUM CHLORITE SOLUTIONS 67-04 M18-66591
GUIDELINES DEVISED FOR CORROSION PROTECTION OF FERROUS PIPELINES UNDERGROUND 67-04 M18-66601
CORROSION RESISTANCE OF TITANIUM IN NITRIC ACID 67-04 M18-66642
CORROSION OF ELECTRODEPOSITED CHROMIUM 67-04 M18-66716
THE DEPENDENCE OF THE CORROSION RESISTANCE OF KH18V10T STEEL PIPES ON THEIR CARBURIZATION 67-04 M18-66829
CORROSION OF AL2O3-SIO2 CRUCIBLE BY MOLTEN ALUMINUM 67-04 M18-66888
NICKEL BASE HYDROCHLORIC ACID CORROSION RESISTANT ALLOY CASTING 67-04 M18-67114
INVESTIGATION OF THE PHYSICAL PROPERTIES AND MICROSTRUCTURE OF HARD ALLOYS WITH A STEEL BOND 67-04 M18-67142
STUDY OF CORROSION RESISTANCE OF A VAD23 ALLOY 67-04 M18-67150
BEHAVIOR OF CR-NI ALLOYS IN MOLTEN CARBONATES 67-04 M18-67286
CORROSION RESISTANCE OF TIN IN HALIDE ELECTROLYTES USED FOR TINPLATING 67-04 M18-67292
CORROSION RESISTANCE OF GAS ARC CUT WELDED JOINTS IN STAINLESS STEELS 67-04 M18-67359
THE BEHAVIOR OF AUSTENITIC CR-NI STEELS IN CO2 67-04 M18-67712
INHIBITION OF CORROSION OF ALUMINIUM IN SULPHURIC ACID SOLUTIONS 67-04 M18-68166
STAINLESS STEEL SCREWS--THE SOLUTION TO FASTENING PROBLEMS IN MANY INDUSTRIES 67-05 M01-68483
SHELL MOLD CASTINGS RESIST HEAT AND CORROSION 67-05 M06-68424
CHROMIZING OF MACHINE COMPONENTS OF STEEL AND CAST IRON 67-05 M12-69070
BENZOTRIAZOLE AND RELATED COMPOUNDS AS CORROSION INHIBITORS FOR COPPER 67-05 M18-68311
THE EFFECTS OF WATER VAPOR AND NITROGEN IN SINTERING ATMOSPHERES ON THE CORROSION RESISTANCE OF SINTERED STAINLESS STEEL 67-05 M18-68315
RESISTANCE OF ALLOYED STEELS TO CORROSION AND EROSION 67-05 M18-68388
THE CORROSION BEHAVIOR OF PB AND PB ALLOYS IN H2SO4. PT. 4 67-05 M18-68585
RESISTANCE OF CORUNDUM CERAMIC TO LIQUID POTASSIUM-SODIUM ALLOY 67-05 M18-68600
THE CORROSION BEHAVIOUR OF ANNEALED AND COLD WORKED HIGH-PURITY ALUMINUM IN PRESSURIZED WATER 67-05 M18-68642
STRESS-CORROSION OF EXPLOSIVELY DEFORMED HIGH STRENGTH ALLOYS 67-05 M18-68713
ALTERNATING CURRENT AND ALUMINUM--TESTS DETERMINE EFFECT OF A-C ON ALUMINUM CONDUCTORS 67-05 M18-68795
EPOXY SURFACE COATINGS 67-05 M18-68922
BEHAVIOR OF STAINLESS STEELS DURING FRICTION IN AGRESSIVE MEDIA. PT. 2 67-05 M18-69493
THE PROBLEM OF PASSIVATION OF NICKEL IN SULFURIC ACID SOLUTIONS 67-05 M18-69824
PROPERTIES OF ANNULAR SEAM WELDED JOINTS IN THIN WALLED TUBES OF ZIRCONIUM ALLOY 67-06 M11-70309
CHROME-PLATED DIE CAST ZN PARTS IN THE AMERICAN AUTOMOTIVE INDUSTRY 67-06 M12-70039
PROTECTION BY ELECTROPAINTING 67-06 M12-70232
PARKERIZING SINTERED PARTS WITH PRELIMINARY HEAT TREATMENT 67-06 M12-70765
SIMPLER PRETREATMENT PROCESSES 67-06 M12-71902
WEATHER RESISTANT TRANSPARENT LACQUERS ON AL 67-06 M12-71983
METALLIZING. PT. 9 67-06 M12-72136
THE FUNDAMENTALS OF MECHANICAL GRINDING AND POLISHING 67-06 M12-72157
TREATMENT INCREASES STRESS-CORROSION RESISTANCE OF ALUMINUM ALLOYS 67-06 M18-70014
THE EFFECT OF THE NATURE OF THE CATHODE PROCESS ON STRESS-CORROSION CRACKING OF HIGH-STRENGTH STEELS 67-06 M18-70178
THE EP548 ALLOY FOR ELECTRIC FURNACE HEATING ELEMENTS 67-06 M18-70194
STUDIES IN THE CORROSION OF ALUMINIUM BRONZE IN SALT WATER 67-06 M18-70231
USE OF PONTENTIOSTATIC METHODS FOR THE STUDY OF THE BEHAVIOR OF ALUMINIUM AND ITS ALLOYS IN VARIOUS MEDIA 67-06 M18-70577
ON THE PLASTISOL-COATED STEEL WIRE FOR THE ARMOR OF SUBMARINE CABLE 67-06 M18-70582
DOES CATHODIC PROTECTION CAUSE INTERNAL CORROSION 67-06 M18-70895
SPECIAL PROBLEMS OF WATER CORROSION FOUND IN NUCLEAR INSTALLATIONS 67-06 M18-71501
THE TECHNOLOGY OF THE ADHESIVE BONDING OF METALS 67-06 M18-71554
PROPERTIES AND APPLICATIONS OF TITANIUM AND ITS ALLOYS, PARTICULARLY IN THE SHAPE OF SHEETS AND TUBES 67-06 M18-71893
THE SO2-REPELLENT ACTION OF AL EXPOSED TO THE INFLUENCE OF THE ATMOSPHERE 67-06 M18-71985
SILVER-PLATED/NICKEL-PLATED COPPER WIRE SHOWS INCREASED CORROSION RESISTANCE 67-06 M18-72093
REDUCE EQUIPMENT COSTS BY CORRECT DESIGN IN ALUMINIUM 67-06 M20-71041
THE HEAT-TREATABILITY AND PROPERTIES OF URANIUM ALLOYS 67-07 M01-73829
HIGH-PRESSURE DIE CAST REAR SUSPENSION ARMS 67-07 M06-73089
ENAMELLED STEELS--THEIR PROPERTIES AND APPLICATION 67-07 M12-74018
TECHNOLOGICAL ADVANCES IN ELECTROCHEMICAL FINISHING OF ALUMINUM 67-07 M12-74120
NEW ZINC ALLOY FOR PROTOTYPES 67-07 M17-73960
THE ROLE OF PALLADIUM IN ENHANCING CORROSION RESISTANCE OF TITANIUM 67-07 M18-72543
INTERNAL CAN CORROSION DUE TO HIGH NITRATE CONTENT OF CANNED VEGETABLES 67-07 M18-73000
TRANSGRANULAR CORROSION AND CORROSION CRACKING OF 18-9 AND 18-12 TYPES OF STAINLESS STEELS WITHOUT TI AND CB ADDITIONS 67-07 M18-73171
THE CORROSION PROTECTION OF STEEL STRUCTURES BY SPRAY GALVANIZING 67-07 M18-73233
PROTECTIVE EFFECT OF SOME AZOLES ON ACID CORROSION OF IRON 67-07 M18-73649
CORROSION RESISTANCE OF WELDED JOINTS IN HEAT RESISTING STEELS FOR METHANOL AND ISOBUTANOL PRODUCTION PLANT 67-07 M18-73978
INTERGRANULAR CORROSION OF 1KH 21N5T STAINLESS STEEL SHEET 67-07 M18-74193
APPLICATIONS OF ALUMINUM-BRONZE ALLOYS IN THE CHEMICAL INDUSTRY 67-07 M20-73896
A HEAT RESISTANT STEEL 67-08 M01-74870
PRELIMINARY INVESTIGATIONS ON A NEW WELDABLE ALLOY --ARGONAL 50-- OF THE AL-ZN-MG SYSTEM 67-08 M01-75379
BOILER RESEARCH AT RENFREW 67-08 M01-75704
PROPERTIES OF COMMERCIAL CASTING ALLOYS 67-08 M06-74809
PLASTIC-COATED STEEL STRIP AND SHEET 67-08 M12-75679

PROTECTIVE COATINGS FOR REFRACTORY MATERIALS
67-08 M12-75862
STRUCTURE AND CONSTITUTION OF THE TIN-PLATE ALLOY LAYER --CONCLUSION-- 67-08 M13-74735
CORROSION STUDIES ON SINTERED CR-NI STEELS
67-08 M18-74448
RESISTANCE TO CORROSION AND STRESS CORROSION
67-08 M18-74808
A BRONZE 67-08 M18-74875
RESEARCH ON THE CORROSION OF ALUMINUM IN WATER AT HIGH TEMPERATURES AND PRESSURES
67-08 M18-75062
RESISTANCE OF SOME MATERIALS IN MOLTEN TIN
67-08 M18-75147
CORROSION OF AL ALLOYS AFTER BEING EXPOSED FOR FIVE YEARS IN DIFFERENT MARINE SITES
67-08 M18-75380
ALUMINIZED WIRE ROPE RESISTS CORROSION AT SEA
67-08 M18-75551
ATMOSPHERIC CORROSION TEST ALONG DOWN-STREAM OF THE TONE RIVER. PT. 1 67-08 M18-75804
LIQUIDUS CURVES AND CORROSION OF FE, CR, NI, CO, V, CB, TA, TI, ZR, IN 500 TO 750 C. MERCURY
67-08 M18-76187
SEALING CORROSIVE MATERIALS WITH HARD CARBON ALLOYS
67-08 M18-76197
TEST ON PROTECTIVE COATINGS FOR POWER TRANSMISSION TOWERS. PT. 3 67-08 M18-76250
BEHAVIOR OF STAINLESS STEELS IN PHOSPHORIC SOLUTIONS 67-08 M18-76293
CORROSION RESISTANCE OF TITANIUM IN THE CHEMICAL INDUSTRY 67-08 M18-76295
STRUCTURES AND EQUIPMENT FOR CHEMICAL, FOOD, DRUG, BEVERAGE AND ATOMIC INDUSTRIES
67-08 M20-74825
WORKABLE IRON-SILICON CAST IRON AS AN ACID-RESISTANT MATERIAL FOR PROCESSING
67-09 M01-77017
HOT REMOVAL OF ALUMINUM FROM CUPRO-ALUMINUMS--A CASE STUDY 67-09 M10-77396
DIFFUSION COATINGS IMPROVE SURFACE PROPERTIES
67-09 M12-76363
NEW ARMOR FOR PLANT EQUIPMENT 67-09 M12-77567
DIFFUSION COATING OF ZINC ON SINTERED IRON PARTS AND ATMOSPHERIC CORROSION RESISTANCE OF THE COATED PRODUCTS 67-09 M12-77812
EXPERIENCE WITH TITANIUM IN CHEMICAL PLANTS
67-09 M18-76365
STRESS CORROSION OF ARMCO IRON IN ACID MEDIUM
67-09 M18-76430
CORROSIVE ACTIVITY OF AQUEOUS SOLUTIONS OF H2SO4
67-09 M18-76432
THE USE OF POLARIZATION CURVES IN INDUSTRIAL STUDIES OF WATER CORROSION 67-09 M18-76490
A RELATIONSHIP BETWEEN STEADY-STATE CORROSION POTENTIAL AND THE ANODIC DISSOLUTION KINETICS OF THE 300 SERIES AUSTENITIC STAINLESS STEELS
67-09 M18-76644
A POTENTIOSTATIC STUDY OF THE CORROSION OF DENTAL SILVER-TIN AMALGAM 67-09 M18-76648
THE MECHANICAL AND CORROSION PROPERTIES OF OKH21N6B TWO-PHASE STAINLESS STEEL 67-09 M18-76973
CORROSION RESISTANCE OF ALUMINUM TO ALKALINE BUILDING MATERIALS 67-09 M18-77077
CORROSION TESTING OF PLATED A B S MOLDINGS
67-09 M18-77541
CORROSION AND RADIATION EFFECTS MUST BE MINIMIZED IN FUELS FOR AUTOMOTIVE TURBINE ENGINES
67-09 M18-77569
THE INFLUENCE OF SURFACE TREATMENTS ON THE CORROSION RESISTANCE OF CHROMIUM-CONTAINING STEELS 67-09 M18-77702
CORROSION RESISTANCE OF PLATINUM, COPPER NICKEL, AND TANTALUM IN LIQUID OXYGEN DIFLUORIDE
67-09 M18-77893
INFLUENCE OF SURFACE TREATMENT ON THE CORROSION OF STAINLESS STEELS AND ZIRCONIUM ALLOYS IN HIGH-TEMPERATURE WATER AND STEAM 67-09 M18-78021
TITANIUM APPLICATIONS IN THE CHEMICAL INDUSTRY
67-09 M18-78026
STRESS CORROSION RESISTANCE OF AN ELECTROLYTICALLY ALUMINIZED STEEL 67-09 M18-78040
BEHAVIOR OF METAL SCREWS EMBEDDED IN WOOD AND IMMERSED IN SEA WATER 67-09 M18-78059
CORROSION RESISTANCE AT HIGH TEMPERATURES. PT. 17
67-09 M18-78201
STAINLESS STEELS 67-10 M01-79217
PROPERTIES AND APPLICATIONS OF MODIFIED 12 PER CENT CR STEELS 67-10 M01-79487
SURFACE CONFIGURATION AND DETERMINATION OF OPTIMUM WORKING CONDITIONS IN ELECTROCHEMICAL MACHINING 67-10 M08-78659
HOW TO UPGRADE FREE-MACHINING PROPERTIES
67-10 M08-79763
THE ANODIC OXIDATION OF BE 67-10 M12-79073
NEW DEVELOPMENTS IN NICKEL PLATING. MULTILAYER COATINGS 67-10 M12-79395
ZINC FOR CORROSION PROTECTION. PT. 2
67-10 M12-79441
FINISHES MAKE THE PRODUCT 67-10 M12-79761
PHYSICAL AND CHEMICAL CLEANNESS OF SURFACES IN NUCLEAR TECHNIQUES AND APPLICATIONS
67-10 M12-79929
A MARAGING STAINLESS FOR 800 TO 1100 F. SERVICE
67-10 M17-78764
RESEARCH INTO TITANIUM ALLOYS FOR USE IN COMPRESSORS 67-10 M18-78371
INVESTIGATION OF THE CORROSION BEHAVIOR OF SOME ALUMINUM ALLOYS IN FLOWING WATER AT 240 C
67-10 M18-78681
HOW TO LOWER CORROSION IN BOILERS. PT. 1
67-10 M18-78863
DEFEATING THE RED PLAGUE 67-10 M18-79428
GASEOUS CORROSION RESISTANCE OF STEELS USED FOR COMPONENTS OF METALLURGICAL EQUIPMENT
67-10 M18-79667
METHOD OF PREPARING LEAD-BASE ALLOYS WITH ALLOYING SULFUR AND COBALT ADDITIVES FOR THE MANUFACTURE OF INSOLUBLE ANODES 67-10 M18-79810
NONSTANDARDIZED AUSTENITIC STAINLESS STEELS
67-10 M18-79928
INVESTMENT CAST BLADES WITHSTAND 1900 F
67-10 M20-79779
HIGH-RESISTANCE STEELS. PT. 2. CONSTRUCTION STEELS OF VERY HIGH RESISTANCE 67-11 M01-80393
TECHNOLOGY OF WELDING PIPES TO OKH18N12B STEEL PIPE GRATES 67-11 M11-80556
EFFECT OF WELDING SLAG ON THE CORROSION RESISTANCE OF WELDED JOINTS 67-11 M11-80561
HARD ANODIZING OF MAGNESIUM 67-11 M12-81238
HIGH-TEMPERATURE PROPERTIES OF AN IMPROVED 1 PER CENT CR STEEL 67-11 M17-80260
TENSILE AND FATIGUE PROPERTIES OF ALLOY 718 AT CRYOGENIC TEMPERATURES 67-11 M17-80520
THE APPLICATION OF TITANIUM FOR DESALINATION PLANTS
67-11 M18-80290
APPLICABILITY OF ALUMINUM FOR DESALINATION PLANTS
67-11 M18-80291
USE OF THE REFRACTORY METALS IN CORROSIVE ENVIRONMENT SERVICE 67-11 M18-80295
STRESS CORROSION OF EXPLOSIVELY DEFORMED HIGH-STRENGTH ALLOYS 67-11 M18-80296
THE CORROSION OF MILD STEEL IN BOILING SALT SOLUTIONS 67-11 M18-80706
INFLUENCE OF THE TYPE OF CORROSION MEDIUM ON THE CORROSION-CRACKING SUSCEPTIBILITY OF AMG-6 ALUMINUM ALLOYS 67-11 M18-81278
PROBLEMS AND DEFICIENCIES ASSOCIATED WITH THE USE OF STEEL IN GAS TURBINE ENGINEERING
67-11 M20-80284
SURFACE PROPERTIES.. KEY TO CONTACT SELECTION
67-11 M20-80525
COPPER ALLOYS IN PUMP CONSTRUCTION
67-12 M01-83210
CHEMICALLY RESISTANT STEELS AND ALLOYS. PRESENT STATE AND DEVELOPMENT 67-12 M01-83287
FE-36 PER CENT NI WITH LOW THERMAL EXPANSION FOR CRYOGENIC APPLICATIONS 67-12 M01-83342
EFFECT OF HEAT TREATMENT ON THE STRUCTURE, MECHANICAL PROPERTIES AND CORROSION CHARACTERISTICS OF VTZ-1 ALLOY
67-12 M10-82190
CORROSION RATES OF MILD STEEL IN COASTAL, INDUSTRIAL, AND INLAND AREAS OF NORTHERN CALIFORNIA 67-12 M18-81756
PASSIVATION OF NICKEL IN SOLUTIONS OF SULFURIC ACID
67-12 M18-82258
CORROSION BEHAVIOR OF AUSTENITIC CR-NI STEELS IN PHOSPHORIC ACID 67-12 M18-83291
HEAT RESISTANT STEELS --WORKING-- IN DIRECT CONTACT WITH MOLTEN GLASS. PT. 2 67-12 M18-83461
STAINLESS STEELS IN THE CELLULOSE INDUSTRY
67-12 M20-83297

CORROSION RESISTANCE, ALLOYING EFFECTS
WEATHER RESISTANT STEEL SHEETS 67-01 M18-58116
INFLUENCE OF COPPER ON AL-SI-CU SYSTEM DIE CASTING ALLOYS 67-02 M17-59728
IRON ALLOYS WITH ALUMINUM AND COPPER. PT. 1. EFFECT

OF COPPER ON THE HIGH-TEMPERATURE CORROSION RESISTANCE OF CAST STEELS AND HIGH-ALUMINUM CAST IRONS 67-02 M18-58984
THE HIGH-TEMPERATURE CORROSION RESISTANCE OF CHROMIUM ALLOYS WITH ZIRCONIUM 67-02 M18-59956
ANODIC BEHAVIORS OF IRON, IRON CHROMIUM AND IRON-NICKEL ALLOYS IN SULFURIC ACID SOLUTION 67-02 M18-59976
ELECTROCHEMICAL BEHAVIOR OF CU-ZN ALLOYS IN NACL SOLUTIONS 67-02 M18-59986
EFFECTS OF ARSENIC ON ELECTRO-CHEMICAL BEHAVIORS OF COPPER AND COPPER-ZINC ALLOYS IN 3 PER CENT NACL AQUEOUS SOLUTION 67-02 M18-59988
STAINLESS STEELS WITH AN ADDITION OF SILICON.. GENERAL STUDY OF THEIR BEHAVIOR IN HIGHLY OXIDIZING ACID MEDIA 67-02 M18-62036
THE APPLICATION OF MICROPROBES IN INDUSTRIAL RESEARCH 67-02 M19-59623
RESIDUALS--MISCHIEVOUS MITES IN STAINLESS 67-03 M17-65490
HOW URANIUM AFFECTS CORROSION OF RESULFURIZED STAINLESSES 67-03 M18-65983
THE EFFECT OF AL-CR AND AG-ZR ADDITIONS ON THE MECHANICAL PROPERTIES AND STRESS CORROSION BEHAVIOR OF HIGH-STRENGTH ALZNMGCU ALLOYS 67-06 M18-71984
THE EFFECT OF ZIRCONIUM AS A FUNCTION OF THE CARBON CONTENT ON THE INTERCRYSTALLINE CORROSION OF AUSTENITIC CR-NI STAINLESS STEELS 67-06 M18-72162
STABILITY OF AUSTENITE IN STAINLESS STEEL AND ITS SUSCEPTIBILITY TO CORROSION CRACKING 67-07 M18-74195
THE EFFECT OF CU DISSOLVED IN ZN ON HOT GALVANIZING 67-08 M12-75512
NEW AUSTENITIC STAINLESS STEELS 67-08 M17-75101
NOTE CONVERNING 13 PER CENT CHROME STEELS 67-08 M17-76234
RESEARCH INTO THE HIGH-TEMPERATURE CORROSION-RESISTANCE OF ALLOYS OF TUNGSTEN WITH NIOBIUM AND TITANIUM 67-08 M18-75143
COMPATIBILITY OF TWO NI-TI ALLOYS WITH MERCURY 67-08 M18-75776
THE EFFECTS OF ADDING SMALL AMOUNTS OF HIGH-MELTING ELEMENTS TO AN ALUMINUM ALLOY CONTAINING 5 PER CENT ZN AND 2 PER CENT MG ON THE STRUCTURE AND PROPERTIES OF THE ALLOY SHEET 67-09 M01-77062
EFFECT OF ALLOYING ELEMENTS ON THE PROPERTIES OF HOT DIP GALVANIZED COATINGS 67-09 M12-77651
MECHANICAL PROPERTIES OF HIGH-NITROGEN AUSTENITIC STAINLESS STEELS AND POSSIBLE APPLICATIONS 67-09 M17-76508
THE INFLUENCE OF IRON ON THE PROPERTIES OF AL-ZN-MG FOUNDRY ALLOYS 67-09 M18-78043
CORROSION RESISTANCE AT HIGH TEMPERATURES. PT. 18 67-10 M18-78398
MGO INJECTION SLOWS BOILER CORROSION. PT. 2 67-10 M18-79476
EFFECT OF MANGANESE ON THE PROPERTIES OF MGZN-1 R. E. M. ALLOY SHEETS 67-11 M17-81162
EFFECT OF ALLOYING ELEMENTS IN STEEL ON THE CORROSION BEHAVIOR IN NEUTRAL SOLUTIONS. FUNDAMENTAL STUDIES OF THE ATMOSPHERIC CORROSION OF LOW-ALLOY STEELS 67-11 M18-80484
THE EFFECT OF 1 PER CENT COPPER ADDITION ON THE ATMOSPHERIC CORROSION OF ROLLED ZINC 67-11 M18-80681
CORROSION CRACKING IN FERTILIZER EQUIPMENT 67-11 M18-81488
THE EFFECT OF ALUMINUM ADDITIONS TO CR-FE COATINGS ON THE PROPERTIES OF THE DIFFUSION COATINGS 67-12 M12-82854
INFLUENCE OF NITROGEN ON THE PROPERTIES OF AUSTENITIC CR-NI AND CR-NI-MO---CU-- STEELS 67-12 M17-83289
INFLUENCE OF ANTIMONY ON THE CORROSION RESISTANCE OF GREY IRONS 67-12 M18-81885
FUNDAMENTAL ASPECTS OF THE DEVELOPMENT OF CORROSION PROOF ALLOYS 67-12 M18-82299
THE EFFECT OF GRAIN BOUNDARY STRUCTURE ON THE INTERCRYSTALLINE STRESS CORROSION BEHAVIOR OF BRASS ALLOYS 67-12 M18-83142
INFLUENCE OF NICKEL ON THE RESISTANCE TO DEALUMINIZATION OF CU-AL ALLOYS 67-12 M18-83343
RESEARCH INTO THE CORROSION RESISTANCE, ELECTROCHEMICAL AND MECHANICAL PROPERTIES, AND THE MICROSTRUCTURE OF NB-TA SYSTEM ALLOYS 67-12 M18-83370

CORROSION RESISTANCE, COMPOSITION EFFECTS
THE CORROSION BEHAVIOR OF PB AND PB ALLOYS IN SULFURIC ACID 3 67-01 M18-58628
ALLOYS CONTAINING LARGE AMOUNTS OF COPPER AND NICKEL FOR USE IN SEA WATER 67-01 M18-58734
TITANIUM AND ITS ALLOYS FOR THE HEAVY CHEMICAL INDUSTRY 67-02 M18-59786
EFFECT OF OXYGEN ON THE MECHANICAL PROPERTIES AND HIGH-TEMPERATURE CORROSION RESISTANCE OF AT3 AND AT8 ALLOYS 67-02 M18-59899
EFFECT OF INTERSTITIAL ELEMENTS AND IRON ON CORROSION RESISTANCE OF COMMERCIALLY PURE TITANIUM IN HYDROCHLORIC ACID AND SULFURIC ACID 67-06 M18-71444
PROPERTIES AND APPLICATION OF ALUMINIUM BRONZE 67-08 M01-75032
THE CHEMICAL STABILITY OF NITROGEN CR-NI STEELS 67-09 M18-77827

CORROSION RESISTANCE, CORROSION ENVIRONMENTS
THE EVALUATION OF CORROSION PROBLEMS. PT. 2 67-07 M18-72822

CORROSION RESISTANCE, HEATING EFFECTS
INFLUENCE OF THE CONDITIONS OF PRODUCTION OF HAFNIUM ON ITS MECHANICAL PROPERTIES AND CORROSION RESISTANCE 67-02 M03-60657
THE EFFECT OF HEAT TREATMENT ON THE CORROSION BEHAVIOR OF ZRNB 1 AND ZRNB 0.5 IN HIGH-TEMPERATURE STEAM 67-02 M18-60986
INFLUENCE OF INDUCTION HEATING ON THE FINE STRUCTURE OF AUSTENITIC STAINLESS STEEL 67-05 M13-68379
INFLUENCE OF HEAT TREATMENT ON THE STRUCTURE AND PROPERTIES OF VT1 TITANIUM AND THE OT4 ALLOY 67-05 M18-68390
EXAMINATION OF AISI 316 STAINLESS STEEL CLADDINGS DEPOSITED BY MEANS OF SUBMERGED ARC STRIP WELDING 67-12 M12-81944

CORROSION RESISTANCE, IMPURITY EFFECTS
CORROSION IN CATHODE ZINC 67-04 M18-67521
EFFECT OF TITANIUM ON CORROSION RESISTANCE OF MAGNESIUM 67-07 M18-73659
EFFECT OF OXYGEN AND NITROGEN IN TANTALUM ON ITS RESISTANCE TO CORROSION BY LIQUID PLUTONIUM ALLOYS 67-11 M18-80544

CORROSION RESISTANCE, PRESSURE EFFECTS
INFLUENCE OF HIGH-TEMPERATURE DEFORMATION AND SUBSEQUENT QUENCHING ON CORROSION AND MECHANICAL PROPERTIES OF AUSTENITIC CR-NI STEELS 67-12 M18-83523

CORROSION RESISTANCE, RADIATION EFFECTS
EFFECTS OF RADIATION ON THE OXIDATION AND HYDROGEN ABSORPTION OF ZIRCONIUM ALLOYS IN STEAM 67-02 M18-59024
INFLUENCE OF IRRADIATION ON THE CORROSION OF ZIRCALOY 2 IN AQUEOUS HIGH-TEMPERATURE ENVIRONMENTS 67-09 M18-77470

CORROSION RESISTANCE, TEMPERATURE EFFECTS
CORROSION OF ZIRCONIUM IN MOLTEN CHLORIDES OF ALKALI METALS 67-03 M18-65442

CORROSION RESISTANCE, WELDING EFFECTS
CORROSION OF HIGH STRENGTH STEELS IN CARBON DIOXIDE FOR GAS COOLED POWER REACTORS 67-04 M18-67593
THE INFLUENCE OF SHIELDING GAS COMPOSITION ON WELD METAL PROPERTIES 67-08 M17-75537

CORROSION RESISTANT STEELS
A. C. I. TYPE CK-20 --CORROSION & HEAT RESISTING STEEL-- 67-04 M01-68071

CORROSION RESISTANT STEELS, ALLOYING
ALLOYING TYPE KH25N20S2 HIGH-TEMPERATURE CORROSION RESISTANT AUSTENITIC STEELS WITH 0.2-0.7 PER CENT BORON 67-08 M01-75022

CORROSION RESISTANT STEELS, BONDING
METHODS OF IMPROVING THE TECHNOLOGY OF PRODUCING BILAYER SHEET STEEL 67-02 M07-61948
MEANS OF IMPROVING THE MANUFACTURE OF TWO-PLY STEELPLATE 67-04 M07-67777

CORROSION RESISTANT STEELS, CASTING
THE CONTINUOUS CASTING OF SMALL CROSS SECTIONS 67-02 M04-59133

CORROSION RESISTANT STEELS, CORROSION
WEATHER RESISTANT STEEL SHEETS 67-01 M18-58116

CORROSION RESISTANT STEELS, HEAT TREATMENT
HEAT TREATMENT AND CORROSION RESISTANCE OF AUSTENITIC TYPE 304 STAINLESS STEEL 67-01 M18-58470

A HIGH-TEMPERATURE CORROSION-RESISTANT CHROMIUM-NICKEL STEEL 67-08 M10-74874

CORROSION RESISTANT STEELS, MECHANICAL PROPERTIES

THE ATMOSPHERIC-CORROSION-RESISTANT STEEL, SUMITOMO CR2-50 67-01 M17-58249

HIGH-STRENGTH WELDABLE 13 PER CENT CHROMIUM CASTING STEEL 67-01 M17-58619

JETHETE M. 153 --HEAT RESISTING STEEL-- 67-06 M01-71455

THE RESEARCH BACKGROUND OF THE THERMALLOY GRADES OF CHROMIUM-NICKEL-IRON HEAT-RESISTING ALLOYS 67-06 M17-70529

CORROSION RESISTANT STEELS, ESPECIALLY FOR COLD ROLLED SHEET AND STRIP APPLICATIONS 67-08 M17-76290

CORROSION-RESISTANT AUSTENITIC CR-MN STEELS FOR ELASTIC ELEMENTS 67-08 M20-74956

NITROGEN-ALLOYED HEAT AND SCALE-RESISTANT STEEL CASTINGS. PT. 1 67-09 M17-76521

CORROSION RESISTANT STEELS, MICROSTRUCTURE

PRECIPITATION OF CRN IN LOW-ALLOY MEDIUM-TENSILE STRENGTH STEEL 67-06 M14-70813

CORROSION RESISTANT STEELS, PHASES /STATE OF MATTER/

EFFECTS OF NICKEL ON THE FORMATION OF SIGMA PHASE AND SOME CHANGES OF PROPERTIES IN 25 PER CENT CHROMIUM STEELS 67-02 M14-59978

CORROSION RESISTANT STEELS, REFINING

DEOXIDATION OF HIGH ALLOY STEEL WITH SILICON 67-06 M04-72389

CORROSION RESISTANT STEELS, WELDING

AN ELECTRODE FOR WELDING 18-8 ACID-RESISTANT STEEL 67-02 M11-61054

THE RESISTANCE OF CHROMIUM-NICKEL WELDS TO GAS CORROSION IN AN ATMOSPHERE CONTAINING SULFUR COMPOUNDS 67-02 M11-61057

ACID-RESISTANT STEELS AND THEIR DEVELOPMENT 67-02 M20-61055

INVESTIGATIONS INTO THE METALLURGICAL PHENOMENA OCCURRING IN WELDING OF CORROSION RESISTANT STEELS USING STICK ELECTRODES WITH ALLOYED COATINGS 67-08 M11-75789

CORROSION TESTS

SEE ALSO ACID RESISTANCE TESTS
ALKALI RESISTANCE TESTS
ARTIFICIAL WEATHERING TESTS
ATMOSPHERIC CORROSION TESTS
CORRODKOTE TESTS
FIELD CORROSION TESTS
GALVANIC CORROSION TESTS
IMMERSION TESTS /CORROSION/
OXIDATION TESTS
PITTING TESTS
SALT SPRAY TESTS
STRESS CORROSION TESTS

BEHAVIOR OF IRON-CHROME-NICKEL AUSTENITES AND FEAL 40 ALLOY IN SUPERHEATED STEAM 67-01 M18-57162

INTERGRANULAR CORROSION OF AUSTENITIC STAINLESS STEEL IN HIGHLY OXIDIZING ACID MEDIA. THE INFLUENCE OF THE SILICON CONTENT OF STEEL 67-01 M18-57298

CORROSION PROTECTION OF ELECTRICAL EQUIPMENT 67-01 M18-58517

ON THE CORROSION RATE OF CAST IRON BY SULFUR DIOXIDE 67-01 M18-58545

STAINLESS STEEL TANKS FOR RADIOACTIVE WASTE STORAGE 67-01 M18-58763

THE EFFECTS OF CLO ION ON THE CORROSION BEHAVIORS OF STAINLESS STEELS IN CONCENTRATION CAUSTIC SODA SOLUTIONS 67-02 M18-59736

CORROSION OF STEELS BY SEA WATER 67-02 M18-60043

CORROSION CONTROL STUDIES FOR A RAPID TRANSIT SYSTEM 67-02 M18-60251

THE CORROSION PROTECTION OF ALUMINIUM BRASS BY FERROUS OR FERRIC ION 67-02 M18-60272

TEST ON SULFIDE CORROSION CRACKING OF WELDABLE HIGH-STRENGTH STRUCTURAL STEELS IN OIL REFINING PLANTS 67-02 M18-60716

APPLICATIONS OF STEELS FOR DESALINATION PLANTS 67-02 M18-61538

THE PITTING POTENTIAL OF STAINLESS STEELS IN CHLORIDE MEDIA 67-02 M18-61761

RESULTS OF A CONTINUOUS CHECK ON MATERIALS FOR HIGH-TEMPERATURE CORROSION BY MEASURING THE ELECTROMOTIVE FORCE 67-02 M18-62028

STAINLESS STEELS WITH AN ADDITION OF SILICON.. GENERAL STUDY OF THEIR BEHAVIOR IN HIGHLY OXIDIZING ACID MEDIA 67-02 M18-62036

STUDY OF WELDING PRIMERS 67-03 M11-65449

CORROSION RESISTANCE OF WELDED JOINTS OF HEAT RESISTANT STEELS WHEN USED IN THE PRODUCTION OF METHANOL AND ISOBUTANOL 67-03 M18-65060

A RAPID METHOD FOR THE DETERMINATION OF CORROSION SUSCEPTIBILITY OF STEEL 67-03 M18-65183

THE APPLICATION OF TITANIUM ALLOYS FOR DISTILLATION PLANTS 67-03 M18-65310

A STAND FOR TESTING TUBULAR SPECIMENS IN HEAT TRANSFER CONDITIONS 67-03 M18-65613

A NEW METHOD FOR THE DETERMINATION OF CORROSION RESISTANCE OF STEEL 67-03 M18-65832

MECHANISM OF INTERGRANULAR STRESS CORROSION CRACKING IN 70 CU-30 ZN ALLOY 67-03 M18-65845

CORROSION RESISTANCE OF AUSTENITIC STAINLESS STEEL CONTAINING NITROGEN AND THE EFFECT OF RARE-EARTH METALS 67-03 M18-65961

CORROSION OF CAST IRON IN CONCENTRATED SULFURIC ACID UNDER POTENTIOSTATIC CONDITIONS 67-03 M18-65996

PROPERTIES OF WELDED JOINTS IN HEAT RESISTANT STAINLESS STEELS 67-04 M11-66802

QUALITY OF RESISTANCE BUTT WELDED ZIRCONIUM ALLOY TUBES 67-04 M11-67809

ELECTROLYTES FOR PLATING WITH CU-NI AND QUALITY OF THE ELECTROPLATES 67-04 M12-67287

THE RELATIONSHIP BETWEEN THE STRUCTURE OF ZIRCALOY 2 AND ITS CORROSION RESISTANCE TO STEAM UNDER PRESSURE AT 400 C 67-04 M14-66674

CORROSION RESISTANCE OF ALUMINUM IN VARIOUS MEDIA. PT. 3 67-04 M18-66022

ATMOSPHERIC CORROSION OF COBALT POWDER 67-04 M18-66251

EFFECT OF RATE OF INGOT COOLING AFTER HOMOGENIZATION ON QUALITY OF D16 ALLOY TUBES 67-04 M18-66980

STUDY OF CORROSION RESISTANCE OF A VAD23 ALLOY 67-04 M18-67150

ANODIC BEHAVIOR OF CU-NI ALLOYS IN AQUEOUS AMMONIUM SOLUTIONS 67-04 M18-67276

ANODIC BEHAVIOR OF CR-NI STEELS STABILIZED WITH TITANIUM 67-04 M18-67278

CORROSION AND ELECTROCHEMICAL BEHAVIOR OF FE-CR ALLOYS IN BOILING CONCENTRATED HNO3 67-04 M18-67279

ELECTROCHEMICAL INVESTIGATION OF THE PITTING CORROSION IN KH18N10T STAINLESS STEEL IN CONDITIONS OF HEAT TRANSFER 67-04 M18-67281

OXIDATION OF TITANIUM ALLOY CONTAINING UP TO 11 PER CENT ALUMINUM 67-04 M18-67285

BEHAVIOR OF CR-NI ALLOYS IN MOLTEN CARBONATES 67-04 M18-67286

CORROSION RESISTANCE OF ALUMINUM AND STAINLESS STEEL DURING ANODIC POLARIZATION 67-04 M18-67291

CORROSION RESISTANCE OF TIN IN HALIDE ELECTROLYTES USED FOR TINPLATING 67-04 M18-67292

WATER SOLUBLE SHALE PHENOLS AS CORROSION INHIBITORS FOR CARBON STEEL 67-04 M18-67293

CORROSION IN CATHODE ZINC 67-04 M18-67521

HIGH-TEMPERATURE CORROSION RESISTANCE OF DISPERSION-HARDENED NICKEL 67-04 M18-67841

CORROSION OF ZIRCALOY-2 AND 4 IN HIGH TEMPERATURE AND HIGH PRESSURE BOILING WATER AND STEAM 67-04 M18-68159

INSTITUTE OF METAL FINISHING TRANSACTIONS 67-05 M12-68833

INFLUENCE OF VACUUM POURING ON SOME PHYSICAL AND MECHANICAL PROPERTIES OF STRUCTURAL STEEL 67-05 M17-69009

INFLUENCE OF DIAMOND GRINDING ON PHYSICAL AND MECHANICAL PROPERTIES OF T15K6 CERMET AND 40KH STEEL 67-05 M17-69013

HYDROEROSION RESISTANCE OF AUSTENITIC CR-MN STEELS ALLOYED WITH NITROGEN AND SOME OTHER ELEMENTS 67-05 M17-69017

INFLUENCE OF CUPRIC IONS ON THE BEHAVIOR OF SURFACE-ACTIVE AGENTS TOWARDS ALUMINIUM 67-05 M18-68312

CORROSION OF MILD STEEL IN THE TIDAL WATERS OF THE AFON DYFI AND A COMPARISON WITH THE RIVER THAMES 67-05 M18-68314

CORROSION RESISTANCE OF STEELS WITH A LOW CONCENTRATION OF NICKEL IN AGGRESSIVE MEDIA 67-05 M18-68381

CORROSION RESISTANCE OF WELDED JOINTS OF 0KH21N6M2T STEEL 67-05 M18-68382

INFLUENCE OF MICROSTRUCTURE ON CORROSION BEHAVIOR

OF SOME WELDABLE STEELS 67-05 M18-68461
THE CORROSION BEHAVIOR OF PB AND PB ALLOYS IN H2SO4. PT. 4 67-05 M18-68585
MICROSTRUCTURE, TECHNICAL AND CORROSION PROPERTIES OF HIGH-B CHEMICALLY RESISTANT STEELS 67-05 M18-68608
A STUDY OF THE ELECTRODE POTENTIAL OF NICKEL IN ACCELERATED CORROSION TEST MEDIA 67-05 M18-68817
EFFECT OF CALORIZING ON FATIGUE AND CORROSION FATIGUE OF 45 CARBON STEEL 67-05 M18-69005
INFLUENCE OF COPPER AND CHROMIUM ON CORROSION PROPERTIES OF AL-ZN-MG ALLOYS 67-05 M18-69006
ANISOTROPY OF THE CORROSION PROPERTIES OF ALLOY STEEL 67-05 M18-69051
THE PART PLAYED BY NITROGEN IN THE OXIDATION OF TITANIUM IN AIR AT HIGH TEMPERATURES 67-05 M18-69052
EFFECTS OF ADDING SMALL AMOUNTS OF COPPER AND SILVER ON THE CORROSION OF AL-ZN-MG SYSTEM ALLOYS 67-05 M18-69053
ON TESTING MATERIALS FOR CORROSION RESISTANCE 67-05 M18-69636
PRODUCTION OF PLASTIC-LINED PIPES 67-05 M18-69692
COMPARATIVE STUDY OF CORROSION CRACK RESISTANCE OF OKH21N5T AND KH18N10T STAINLESS STEELS 67-05 M18-69822
STRESS CORROSION CRACKING OF SOME HIGH-STRENGTH STEELS, 67-05 M18-69823
INFLUENCE OF ACIDITY ON CORROSION OF AL-SB ALLOYS 67-05 M18-69832
CORROSION RESISTANCE OF SOME METALS IN MOLTEN ALUMINUM 67-05 M18-69836
PROPERTIES OF ANNULAR SEAM WELDED JOINTS IN THIN WALLED TUBES OF ZIRCONIUM ALLOY 67-06 M11-70309
CORROSION OF SOME METALS AND ALLOYS IN ALUMINUM ALLOY 67-06 M18-70177
STABILIZED STEELS RESISTANT TO CORROSION CRACKING 67-06 M18-70203
THE INTERGRANULAR CORROSION OF CHROMIUM STEELS IN CONCENTRATED NITRIC ACID 67-06 M18-70337
THE CORROSION RESISTANCE OF SINTERED ALUMINUM POWDER 67-06 M18-70379
THE CORROSION-RESISTANCE OF NEW SINTERED ALUMINUM ALLOYS 67-06 M18-70380
THE PROBLEM OF AUSTENITIC STEELS WHICH ARE RESISTANT TO CORROSION CRACKING 67-06 M18-71109
CORROSION AND THE DETERMINATION OF THE EFFECTIVENESS OF CORROSION PROTECTION, PT. 2 67-06 M18-71179
ULTRASONIC NONDESTRUCTIVE TESTS. CORROSION AND MATERIAL FLAW DETECTION 67-06 M18-71225
OIL FIELD BRINE VESSELS. CATHODIC PROTECTION FOR BRINE HANDLING EQUIPMENT 67-06 M18-71228
INFLUENCE OF HYDROGEN IN THE PROCESS OF CORROSION ON PROPERTIES OF WELDED TITANIUM ALLOYS 67-06 M18-71646
OIL WELL CORROSION TREATMENT--POLARIZATION DATA FOR FIELD TESTING INHIBITORS 67-06 M18-72338
THE EXAMINATION OF CORROSION PRODUCTS AND PROCESSES. PT. 1. WET AND ELECTROCHEMICAL METHODS 67-06 M19-72255
DEVELOPMENTS IN NICKEL AND CHROMIUM DECORATIVE COATINGS AND IN ELECTROFORMING WITH NICKEL. PT. 1 67-07 M12-73129
COATING OF MOLYBDENUM WITH TITANIUM IN MOLTEN SALT ELECTROLYTE 67-07 M12-73658
EVALUATION OF ALUMINUM PANELS EXPOSED IN THE PACIFIC OCEAN AT 2340 FEET FOR SIX MONTHS 67-07 M18-72483
THE ANODIC DISSOLUTION OF DEFORMED MG IN H2SO4 67-07 M18-72764
CORROSION RESISTANT MATERIALS IN ACYLATING HYDROLYZING MEDIA IN THE PRODUCTION OF CELLULOSE ACETOBUTYRATE 67-07 M18-72872
CORROSION RESISTANCE OF ARMCO IRON IN LIQUID LITHIUM 67-07 M18-73166
INFLUENCE OF LOADING FREQUENCY ON ENDURANCE OF V95 ALUMINUM ALLOY IN THE PRESENCE OF SURFACTANTS 67-07 M18-73169
SOME IMPORTANT TECHNIQUES IN CORROSION STUDIES 67-07 M18-73300
INTERCRYSTALLINE CORROSION OF TWO-PHASE STEELS OF THE OKH21N5 TYPE 67-07 M18-73646
INFLUENCE OF HEAT TREATMENT ON INTERGRANULAR CORROSION OF KH20N45B NICKEL ALLOY 67-07 M18-73647
PROTECTIVE EFFECT OF SOME AZOLES ON ACID CORROSION OF IRON 67-07 M18-73649
PROTECTIVE EFFECT OF PROPARGYL ALCOHOL DURING CORROSION OF NICKEL IN SULFURIC ACID 67-07 M18-73650
INTERACTION BETWEEN METALLIC ZIRCONIUM AND MOLTEN, NACL, KCL AND CSCL 67-07 M18-73651
INFLUENCE OF HEAT TREATMENT ON CORROSION OF PURE ZIRCONIUM IN HYDROCHLORIC ACID 67-07 M18-73654
INFLUENCE OF SOME INHIBITORS ON CORROSION OF IRON IN ACID MIXTURES 67-07 M18-73655
CORROSION OF COLUMBIUM CARBIDE AT HIGH TEMPERATURE IN THE MEDIUM OF COMMERCIALLY PURE INERT GASES 67-07 M18-73656
EFFECT OF TITANIUM ON CORROSION RESISTANCE OF MAGNESIUM 67-07 M18-73659
CORROSION RESISTANCE OF WELDED JOINTS IN HEAT RESISTING STEELS FOR METHANOL AND ISOBUTANOL PRODUCTION PLANT 67-07 M18-73978
THE PROPERTIES OF WELDED JOINTS IN HEAT-RESISTANT STAINLESS STEELS 67-08 M11-75906
INVESTIGATION OF THERMAL STABILITY OF LOW POROSITY BRONZES 67-08 M18-74311
APPARATUS FOR TESTING TUBULAR SPECIMENS DURING HEAT TRANSFER 67-08 M18-74538
COMPARING RESULTS OF DETERMINING THE DEPTH OF INTERCRYSTALLINE CORROSION BY VARIOUS METHODS 67-08 M18-75351
STUDYING THE ELECTROCHEMICAL BEHAVIOR OF WELDED JOINTS USING THE POTENTIOSTATIC METHOD 67-08 M18-75405
INFLUENCE OF ZINC DUST LOADINGS. ZINC RICH PAINTS IN HIGHLY CORROSIVE ENVIRONMENTS 67-08 M18-75743
GENERAL CORROSION OF INCONEL ALLOY 625 IN SIMULATED SUPERHEAT REACTOR ENVIRONMENT 67-08 M18-76140
A STUDY OF STRESS-CORROSION OF HIGH-RESISTANT LIGHT ALLOYS WITH REFERENCE TO THEIR SURFACE STRUCTURES 67-09 M18-76493
CORROSION BEHAVIOR OF CR-NI-MO-CU STEELS IN SULFURIC AND PHOSPHORIC ACIDS 67-09 M18-76516
STRESS RELIEF IN AUSTENITIC STEEL WELDS 67-09 M18-76517
STUDIES ON ALLOY-TIN COUPLE TEST 67-09 M18-76683
NEW ACCELERATED TEST METHODS FOR THE INVESTIGATION OF CORROSION RESISTANCE OF SURFACE-PROTECTED STEEL SHEET--CORROSION TEST OF PHOSPHATIZED BUT NOT PAINTED STEEL SHEET 67-09 M18-76706
INVESTIGATION OF THE ANODIC OXIDATION OF AL WITH RADIOACTIVE TRACERS IN H2SO4 ELECTROLYTES 67-09 M18-77207
THE USE OF PULSED APPLIED VOLTAGE IN THE DERIVATION OF CORROSION RATES FROM POLARIZATION RESISTANCE MEASUREMENTS 67-09 M18-77484
CORROSION RESISTANCE OF OKH13 --EI496-- STEEL AND ITS WELDED JOINTS IN CERTAIN OPERATING MEDIA 67-09 M18-77614
PAINTING HOT DIP GALVANIZED SHEET--EXPERIMENTAL RESULTS IN DIFFERENT ATMOSPHERES 67-09 M18-77660
INVESTIGATION OF CORROSION RESISTANCE OF METALS UNDER CONDITIONS OF SYNTHESIS OF PHENOL FROM TOLUOL 67-09 M18-77955
INVESTIGATION OF CORROSION PHENOMENA IN STAINLESS STEELS BY THE OCTEL METHOD 67-09 M18-78029
THE BEHAVIOR OF MATERIALS DURING FUNDAMENTAL TESTING AND PRACTICAL APPLICATIONS 67-10 M17-78639
CORROSION OF METALS BY FLOWING LIQUID FLUORINE COMPOUNDS 67-10 M18-78475
COMPATIBILITY OF ATLAS MATERIALS WITH FLUORINE PROPELLANTS 67-10 M18-78494
CORROSION OF METALS BY FLOWING LIQUID FLUORINE COMPOUNDS 67-10 M18-78495
DISSOLUTION OF IRON IN A MIXTURE OF HYDROCHLORIC AND NITRIC ACIDS 67-10 M18-78536
INFLUENCE OF FLUORINE IONS ON CORROSION OF OKH18N10T STEEL IN WATER AND HIGH-PRESSURE STEAM 67-10 M18-78538
SELF-ADJUSTING CHROMIUM ELECTROLYTE WITH LOW CORROSION ACTIVITY 67-10 M18-78540
CORROSION TESTING OF CHROMIUM AND MULTILAMINAR COATINGS IN DAIRY PRODUCTS 67-10 M18-78542

ATMOSPHERIC RUSTING SIMULATION AT THE LABORATORY 67-10 M18-78684
ELECTROCHEMICAL AND CHEMICAL CORROSION TESTING OF 13 PER CENT CR CAST STEEL IN CHLORIDE CONTAINING MEDIA 67-10 M18-78686
THE CORRECT TREATMENT OF THE SURFACE OF ZINC SPECIMENS IN CORROSION INVESTIGATIONS 67-10 M18-78917
ATMOSPHERIC CORROSION OF COBALT POWDER 67-10 M18-78983
THE CORROSION BEHAVIOR OF ALUMINUM CASTING ALLOYS. THE EFFECT OF SMALL ALLOYING ADDITIONS, PARTICULARLY COPPER 67-10 M18-79388
INFLUENCE OF HYDROGEN DURING CORROSION ON THE PROPERTIES OF TITANIUM WELDS 67-10 M18-79613
MECHANISM UNDERLYING THE CORROSION OF CARBON STEELS IN LITHIUM 67-10 M18-79641
APPARATUS FOR DYNAMIC TESTS ON METALS AND ALLOYS IN ORGANIC HEAT CARRIERS AT HIGH TEMPERATURES AND PRESSURES 67-10 M18-79645
CORROSION OF COLUMBIUM CARBIDE AT HIGH TEMPERATURES IN INERT GASES OF TECHNICAL PURITY 67-10 M18-79676
CORROSION MEASURING METHODS IN PETROLEUM PROCESSING INSTALLATIONS 67-10 M18-79970
EFFECT OF STRAIN HARDENING ON THE PROPERTIES OF 08 RIMMED STEEL 67-11 M18-80592
ELECTROCHEMICAL CORROSION EXPERIMENTS AT TEMPERATURES ABOVE 100 C 67-11 M18-80707
NOTE ON THE PROLONGED OXIDATION OF AN FE-25 PER CENT CR ALLOY AT 950 C. IN OXYGEN 67-11 M18-80714
EXPERIENCE WITH TI APPARATUS IN THE CHEMICAL INDUSTRY 67-11 M18-81258
SELECTION OF INHIBITORS FOR LONG-TERM CONSERVATION OF WATER SYSTEMS 67-11 M18-81283
CORROSION OF ELECTROPRECIPITATED ANTIMONY AND SOME OTHER ANODE MATERIALS IN SULFIDE-ALKALI ELECTROLYTE 67-11 M18-81295
RADIOMETRIC METHODS OF MEASURING LOW RATES OF CORROSION OF TITANIUM 67-11 M18-81300
CORROSION CRACKING IN FERTILIZER EQUIPMENT 67-11 M18-81488
CORROSION AND HEAT TRANSFER--A REVIEW 67-11 M18-81549
PRACTICAL APPLICATIONS OF CORROSION-TESTING APPARATUS UNDER HEAT TRANSFER CONDITIONS 67-11 M18-81550
CORROSION RATES OF MILD STEEL IN COASTAL, INDUSTRIAL, AND INLAND AREAS OF NORTHERN CALIFORNIA 67-12 M18-81756
COMPUTERIZED LONG-TERM CORROSION DATA 67-12 M18-81963
THE ELECTROCHEMICAL BEHAVIOUR OF WELDED JOINTS 67-12 M18-82026
COMPARATIVE STUDY OF THE RESISTANCE OF KH21N5T AND KH18N10T STEELS TO CORROSION CRACKING 67-12 M18-82256
CORROSION CRACKING OF SOME HIGH-STRENGTH STEELS 67-12 M18-82257
INFLUENCE OF PH ON THE CORROSION BEHAVIOR OF ALUMINUM-ANTIMONY ALLOYS 67-12 M18-82266
CORROSION RESISTANCE OF CERTAIN METALLIC MATERIALS IN MOLTEN ALUMINUM 67-12 M18-82269
ON USING EXOELECTRON EMISSION AND ELLIPSOMETRY FOR INVESTIGATING INHIBITORS AND STIMULATORS OF ATMOSPHERIC CORROSION OF METALS 67-12 M18-82305
EFFECT OF WELDING STRESSES ON THE CORROSION OF 1KH18N9T STEEL WELD JOINTS 67-12 M18-82476
REFERENCE CELLS AID CORROSION TESTS 67-12 M18-83168
CORROSION RESISTANCE OF CARBON STEEL WELDS AND STAINLESS STEEL WELDS IN SOME ARGRESSIVE MEDIA 67-12 M18-83193
GALVANIC PROTECTION--ANODIC POLARIZATION OF SEVERAL GRADES OF SPANISH ZINC 67-12 M18-83578

CORROSION TESTS, ALLOYING EFFECTS
THE EFFECT OF SMALL ADDITIONS OF COPPER ON THE CORROSION RESISTANCE OF ALUMINIUM AND ALUMINIUM ALLOYS 67-12 M18-81965

CORRUGATING
CORRUGATED VERSUS FLAT-SIDED MOLDS 67-03 M04-65527
QUALITY EVALUATION OF CORRUGATED VERSUS SMOOTH-WALLED MOLDS 67-03 M04-65528
CORRUGATING ALUMINUM SHEET STRUCTURAL ELEMENTS TO REDUCE WELDING STRAINS 67-04 M08-67017
CORRUGATING COMPONENTS OF SHEET ALUMINIUM STRUCTURES AS A MEANS OF REPRODUCING WELDING DEFORMATIONS 67-08 M08-74776
CORRUGATED PANEL FOR SHIPS WALL 67-12 M20-82921

CORRUGATION
SEE CORRUGATING

CORUNDUM, CASTING
PRODUCTION OF FUSED REFRACTORIES IN THE EXPERIMENTAL SHOP OF A REFRACTORY WORKS 67-08 M05-75595

CORUNDUM, CORROSION
RESISTANCE OF CORUNDUM CERAMIC TO LIQUID POTASSIUM-SODIUM ALLOY 67-05 M18-68600

CORUNDUM, CRYSTAL LATTICES
ELECTRON MICROSCOPY AND DIFFRACTION OF SYNTHETIC CORUNDUM CRYSTALS. PT. 2. DISLOCATIONS AND GRAIN BOUNDARIES IN IMPURITY-DOPED ALUMINIUM OXIDE 67-01 M13-57481

CORUNDUM, MECHANICAL PROPERTIES
ELASTIC CONSTANTS OF SINGLE CRYSTAL CORUNDUM BELOW ROOM TEMPERATURE 67-05 M17-69573

CORUNDUM, MELTING
PRODUCING ELECTROCORUNDUM FOR SYNTHETIC SLAGS FROM SINTERED KAOLIN 67-05 M04-69687

CORUNDUM, SYNTHESIS
ELECTROCORUNDUM FOR SYNTHETIC SLAGS MELTED FROM CONCENTRATED KAOLIN 67-07 M04-74073

COSMOTRONS
SEE SYNCHROTRONS

COTTRELL BILBY THEORY
SEE COTTRELL LOCKING

COTTRELL EFFECT /CRYSTALS/
SEE COTTRELL LOCKING

COTTRELL LOCKING
STUDY OF AL-ZN SLIGHTLY WORK-HARDENED STRUCTURES AND THEIR EVOLUTION DURING THERMAL TREATMENTS 67-03 M14-65548
KINETICS OF SNOEK ORDERING AND COTTRELL ATMOSPHERE FORMATION IN FE-N SINGLE CRYSTALS 67-07 M17-73923
THE DETERMINATION OF THE ACTIVATION VOLUME DURING CHANGE OF THE CREEP RATE, PARTICULARLY IN AG SINGLE CRYSTALS 67-08 M17-75783

COTTRELL MECHANISM
SEE COTTRELL LOCKING

COTTRELL PRECIPITATORS
SEE ELECTROSTATIC PRECIPITATORS

COTTRELL PROCESS
SEE ELECTROSTATIC PRECIPITATION

COULOMETERS
A COULOGRAVIMETRIC STUDY OF THE SINTERED SILVER ELECTRODE IN 1 MOLAR POTASSIUM HYDROXIDE 67-05 M14-68615
COMPARATIVE INVESTIGATION OF METHODS TO DETERMINE THICKNESS OF ZINC COATS ON STEEL WIRE 67-09 M12-77194
PASSIVATION AND CORROSION OF STAINLESS STEELS 67-09 M18-76491

COULOMETRY
SEE COULOMETERS

COUNTERS
SEE GEIGER MUELLER COUNTERS
RADIATION COUNTERS
SCINTILLATION COUNTERS

COUNTERSINKING
TWO VARIANTS OF DIE COUNTERSINKING OF HOLES 67-12 M08-82069

COUPLING /MOLECULAR/
MAGNETORESISTANCE AND CONDUCTION ELECTRON-IMPURITY SPIN COUPLING IN DILUTE SILVER ALLOYS 67-09 M15-76372

COUPLING /PROCESS/
SEE JOINING

COUPLINGS, HARD SURFACING
INCREASING THE LIFE OF PARTS BY MULTIELECTRODE DEPOSIT WELDING 67-07 M11-72741

COUPLINGS, SURFACE FINISHING
VIBRATION AND TUMBLING--A NEW DIMENSION IN FINISHING 67-03 M12-65664

COUPLINGS, WELDING
FLASH WELDING OF CONNECTING ENDS TO DRILL TUBES 67-02 M11-60009
PROLONGING THE USEFUL LIFE OF COMPONENTS BY MULTI-ELECTRODE HARDFACING 67-12 M11-82320

COVALENCE
THE CHEMICAL BOND AND THE STRUCTURE OF VALENCE BANDS IN COVALENT SEMICONDUCTORS 67-11 M15-80154

COVERED ELECTRODE ARC CUTTING

COVERED ELECTRODE ARC CUTTING
SEE ARC CUTTING
COWPER STOVES
SEE BLAST FURNACE STOVES
CO2 ARC WELDING
SEE GAS METAL ARC WELDING
CRACK GROWTH
SEE CRACK PROPAGATION
CRACK PROPAGATION
FRACTOGRAPHIC EXAMINATION OF FATIGUE SPECIMENS OF DUCTILE IRON 67-01 M17-57441
EXPERIMENTAL INVESTIGATION OF THERMAL SHOCK BEHAVIOR IN CAST IRONS 67-01 M17-57596
EVALUATION OF FRACTURE CHARACTERISTICS OF ALUMINUM ALLOYS AT CRYOGENIC TEMPERATURES 67-01 M17-57628
EVALUATION OF THE EFFECTS OF SPECIMEN CONFIGURATION AND TESTING VARIABLES ON CRACK PROPAGATION PROPERTIES 67-01 M17-57629
MECHANISM AND KINETICS OF DUCTILE AND BRITTLE FRACTURE OF SILICON IRON 67-01 M17-57635
ELECTRON MICROSCOPY AND METALLOGRAPHIC INVESTIGATIONS OF THE NATURE OF STRUCTURAL DISTURBANCES DURING STRAIN CYCLING 67-01 M17-57639
KINETICS OF CRACK PROPAGATION IN METAL FOILS 67-01 M17-57698
EFFECT OF HIGH PRESSURE ON THE PLASTICITY AND BREAKDOWN OF METALS 67-01 M17-57700
RESISTANCE OF STEELS TO BRITTLE CRACK PROPAGATION DEFINED 67-01 M17-58064
MECHANICAL AND MICROMECHANICAL BEHAVIOR OF BULK POLYCRYSTALLINE BORON 67-01 M17-58422
REDUCING THE TIME FOR COOLING INGOT MOLDS 67-02 M06-59186
EVAPORATION AND FORMATION OF PORES IN ALUMINUM ALLOYS AND CU-ZN ALLOYS 67-02 M15-59763
FATIGUE BEHAVIOR OF ALUMINUM IN VACUUM 67-02 M17-58947
PROPAGATION OF A CRACK FILLED WITH LIQUID METAL 67-02 M17-59434
EFFECT OF NIOBIUM ON CRACK INITIATION IN 2KH13L STEEL 67-02 M17-59650
FISH EYE APPEARING ON THE FATIGUE FRACTURED SURFACE OF BALL BEARING STEEL 67-02 M17-59710
FORMATION OF GRIFFITH-CRACKS IN FERRITIC, LAMELLAR-PEARLITIC STEELS 67-02 M17-59717
RESEARCH IN THE FIELD OF METAL FATIGUE 67-02 M17-59727
THE RELATIONSHIP OF CRACK PROPAGATION RATE IN METALS TO AMOUNT OF PLASTIC DEFORMATION 67-02 M17-59938
EFFECT OF FATIGUE TRAINING ON STRESS-RUPTURE STRENGTH 67-02 M17-60075
INVESTIGATION OF HOT TEARING AND MECHANISM OF CRACK FORMATION IN CAST STEEL. PRACTICAL CRACK SENSITIVITY TEST PIECE 67-02 M17-60221
COMPRESSIVE DEFORMATION AND STRUCTURE IN SINTERED ALUMINUM PRODUCTS --S. A. P.-- 67-02 M17-60261
MEDIUM AND HIGH STRENGTH ALUMINUM ALLOYS AND THEIR BEHAVIOR AT LOW TEMPERATURE 67-02 M17-60609
THE EFFECT OF VACUUM OUTGASSING TIME ON THE FATIGUE BEHAVIOR OF TWO STRUCTURAL ALUMINUM ALLOYS 67-02 M17-60625
FRACTURE OF TUNGSTEN SINGLE CRYSTALS AT LOW TEMPERATURES 67-02 M17-60633
A STUDY OF THE MECHANISM OF INTERGRANULAR CREEP CAVITATION BY SHADOWGRAPHIC ELECTRON MICROSCOPY 67-02 M17-60641
THE FRACTURE OF IRON-3 PER CENT SILICON SINGLE CRYSTALS CONTAINING STABLE MICROCRACKS 67-02 M17-60650
CRACK ANALYSIS AS A METHOD OF DETERMINING FRACTURE CHARACTERISTICS 67-02 M17-60669
CRACK PROPAGATION IN HARD CLAD STEEL 67-02 M17-60779
NATURE OF THE DEVELOPMENT AND ACCUMULATION OF DAMAGED PLACES IN STEEL DURING FATIGUE TESTS 67-02 M17-60793
BRITTLE BEHAVIOR IN EXTRUDED BERYLLIUM TUBES 67-02 M17-60906
VELOCITY OF PROPAGATION OF CLEAVAGE CRACKS IN TUNGSTEN 67-02 M17-60907
BRITTLE CRACKS IN AN OIL TANK 67-02 M17-61060
CRACK PROPAGATION IN POLYCRYSTALLINE CHROMIUM DURING THERMAL CYCLING 67-02 M17-62236
SUPERSONIC TRANSPORT DESIGN EVOLUTION 67-02 M20-61136
X-RAY INVESTIGATION ON FATIGUE FRACTURE OF NOTCHED STEEL SPECIMEN. OBSERVATION OF FATIGUE PHENOMENA OF ANNEALED LOW-CARBON STEEL BY X-RAY MICROBEAM TECHNIQUE 67-03 M13-65196
STUDY ON TORSIONAL FATIGUE STRENGTHS OF RECTANGULAR AND CIRCULAR CROSS SECTIONS OF STEEL 67-03 M17-65195
FAILURE-SAFE CASTING DESIGN 67-03 M17-65833
INVARIABILITY, HESITATION OR RESTORATION OF DAMAGE IN WET-DRY FATIGUE PROCESS 67-03 M18-65663
ON THE MECHANISM OF STRESS CORROSION CRACKING IN AUSTENITIC STAINLESS STEELS 67-03 M18-65844
THE NATURE OF STRESS-CORROSION CRACK INITIATION WITH MARTENSITIC STAINLESS STEELS 67-03 M18-65998
CRACKING AND FERRITE CONTENT IN AUSTENITIC STAINLESS WELDS 67-04 M11-66249
STRUCTURAL STUDY OF NICKEL SUBJECTED TO PLASTIC DEFORMATION AT INCREASED TEMPERATURES 67-04 M13-67842
MANSON-COFFIN FATIGUE 67-04 M17-66052
THE EFFECT OF PRE-STRAIN AND STRAIN-AGEING ON THE CLEAVAGE FRACTURE OF A HIGH-MANGANESE STEEL 67-04 M17-66068
UTILIZATION OF PLASTIC FLOW LEADING TO LONG FATIGUE LIFE IN ORDERED ALLOYS 67-04 M17-66127
THE CYCLIC STRAINING OF MILD STEEL 67-04 M17-66150
A REVIEW OF THE MECHANISMS OF FATIGUE 67-04 M17-66171
THE EFFECT OF FATIGUE ON THE DUCTILE-BRITTLE TRANSITION TEMPERATURE OF TWO MILD STEELS 67-04 M17-66172
RESIDUAL STRAINS AND DISPLACEMENTS WITHIN THE PLASTIC ZONE AHEAD OF A CRACK 67-04 M17-66291
CRACK PROPAGATION RESISTANCE IN STRUCTURAL STEELS 67-04 M17-66357
INFLUENCE OF THE LIQUID SLAG REFINING ON TOUGHNESS OF LOW ALLOY STRUCTURAL STEEL 67-04 M17-66360
A QUANTITATIVE EVALUATION OF THE SIZE EFFECT IN THE BRITTLE FRACTURE OF WELDED STRUCTURES 67-04 M17-66431
MICRO- AND MACROMECHANISMS OF FRACTURE 67-04 M17-66643
VARIOUS CONCEPTS OF MICROCRACKS 67-04 M17-66896
EXPERIMENTAL DETERMINATION OF PLASTIC CONSTRAINT AHEAD OF A SHARP CRACK UNDER PLANE-STRAIN CONDITIONS 67-04 M17-66937
ANALYSIS OF PLANE-STRAIN FRACTURE IN A SERIES OF 0.45C-NI-CR-MO STEELS WITH DIFFERENT SULFUR CONTENTS 67-04 M17-66942
SURFACE FRACTURES ON COLD-WORKING ROLLS, THEIR FORMATION AND AN INTERPRETATION OF THEIR CAUSES 67-04 M17-67411
THE EFFECTS OF STABILIZING ANNEALING ON THE LONG TIME STRENGTH OF JOINTS IN KH18N10T STEEL 67-04 M17-67673
TECHNIQUE FOR MICROSCOPIC OBSERVATION OF CRACK PROPAGATION 67-04 M17-67735
BERYLLIUM IMPACT BEHAVIOR COMPRESSOR BLADE APPLICATION--IMPLICATIONS FOR THE JET ENGINE 67-04 M17-67892
STUDIES ON THE HOT TEARING OF AL-CU ALLOYS 67-05 M06-68949
NUCLEATION OF GRAIN-BOUNDARY CAVITIES DURING HIGH-TEMPERATURE CREEP 67-05 M13-68689
TWINNING AND CLEAVAGE FRACTURE IN MOLYBDENUM SINGLE CRYSTALS 67-05 M17-68221
FATIGUE CRACK PROPAGATION IN METALS 67-05 M17-68341
PROPAGATION OF CRACKS IN PLAIN AND NOTCHED SPECIMENS UNDER REPEATED PLASTIC STRAIN 67-05 M17-68462
DISCUSSION ON METHODS OF ESTIMATING THE TENDENCY OF METALS AND ALLOYS TOWARD BRITTLE FAILURE. METHOD OF ESTIMATING THE CRITICAL LENGTH OF A CRACK IN A SINGLE LOADING 67-05 M17-68740
CRACK INITIATION IN POLYCRYSTALLINE ALUMINIUM FATIGUED AT LOW STRAIN 67-05 M17-68762
FATIGUE CRACK PROPAGATION IN METALS 67-05 M17-68772
STUDY OF THE BEHAVIOR OF WELDED JOINTS INCORPORATING DESIGN DEFECTS UNDER UNIAXIAL TENSION LOADING 67-05 M17-68785
STUDY OF THE DEVELOPMENT OF FATIGUE CRACKS IN STEELS SUBJECTED TO TEMPER EMBRITTLEMENT 67-05 M17-69047

CONDITIONS LEADING TO FAILURE OF CAST IRON BRAKES
67-05 M17-69141
AN INVESTIGATION INTO THE INFLUENCE OF EDGE SHAPE ON CRACKING DURING ROLLING 67-05 M17-69560
FATIGUE PROPERTIES OF CAST IRON IN RELATION TO GRAPHITE STRUCTURE 67-05 M17-69879
PREDOMINANT CASES AND REASONS OF BRITTLE FAILURE
67-06 M11-71846
THE ASSOCIATION BETWEEN CRACK-OPENING DISPLACEMENT AND FRACTURE TOUGHNESS 67-06 M17-69929
AN ESTIMATE OF THE DAMAGE TO COMMERCIAL IRON DURING FATIGUE TESTING AT 20 TO 800 C
67-06 M17-69980
LOW-CYCLE FATIGUE TESTS UNDER REVERSED TENSION/COMPRESSION STRESSES WITH CONSTANT TRUE-STRAIN AMPLITUDE 67-06 M17-70033
THE EFFECT OF PRELIMINARY PLASTIC DEFORMATION ON THE RESISTANCE OF MATERIALS UNDER THE DYNAMIC EFFECT OF LEAD MELTS 67-06 M17-70328
THE PROPAGATION OF CRACKS THROUGH GRAIN BOUNDARIES IN POLYCRYSTALLINE 3 PER CENT SILICON-IRON
67-06 M17-70414
ON THE INTERPRETATION OF FRACTURE SURFACE OBSERVATIONS 67-06 M17-70444
THE NUCLEATION AND GROWTH OF CLEAVAGE MICROCRACKS IN MILD STEEL 67-06 M17-70622
THE INFLUENCE OF ELASTIC ANISOTROPY ON THE PROPAGATION OF FRACTURE 67-06 M17-70645
THE PLASTIC ZONE SIZE AHEAD OF THE PROPAGATING FATIGUE CRACK 67-06 M17-70647
THE INTERACTION BETWEEN AN ELASTIC CRACK AND A SLIP BAND WITH SPECIAL REFERENCE TO BRITTLE FRACTURE STRENGTH OF METALS 67-06 M17-70704
CRACK PROPAGATION AT STRESSES BELOW THE FATIGUE LIMIT 67-06 M17-71084
CLEAVAGE CRACK PROPAGATION WITHIN CRYSTALS BY THE GRIFFITH MECHANISM VERSUS A DISLOCATION MECHANISM
67-06 M17-71090
QUALITY OF 1020 MM DIAMETER SPIRAL SEAM TUBES OF 15G2S STEEL 67-06 M17-71260
INFLUENCE OF ROLLING TEXTURE ON TOUGHNESS OF STEEL
67-06 M17-71262
THE THEORETICAL STRENGTHS OF CRYSTALS AND THE TIP OF A CRACK 67-06 M17-71519
FATIGUE-CRACK GROWTH IN SOME COPPER-BASE ALLOYS
67-06 M17-71604
FATIGUE CRACK PROPAGATION IN LOW-ALLOY HEAT-TREATED STEELS 67-06 M17-71629
THE EFFECT OF MOISTURE ON SLOW CRACK GROWTH IN THIN SHEETS OF SAE 4340 STEEL UNDER STATIC AND REPEATED LOADING 67-06 M17-71630
FATIGUE-CRACK-PROPAGATION RATES UNDER RANDOM EXCITATION 67-06 M17-71634
FEO INCLUSIONS AND FATIGUE OF STEEL
67-06 M17-71738
LOW-CYCLE FATIGUE BY CONSTANT AMPLITUDE TRUE MEAN STRESS 67-06 M17-72084
A STUDY ON THE ANALYSIS OF FATIGUE FRACTURE
67-06 M17-72146
CHARACTERISTICS OF BRITTLE FAILURES IN WELDED ROLLING STOCK AND PREVENTIVE MEASURES
67-07 M11-72736
RELATION BETWEEN THE RATE OF CRACK GROWTH AND THE MAGNITUDE OF PLASTIC DEFORMATION
67-07 M17-72593
THE PART PLAYED BY SIZE EFFECT DURING THE BRITTLE FRACTURE OF MEMBERS OF WELDED STRUCTURES
67-07 M17-72690
THE RELATION OF HUMIDITY TO THE FATIGUE ENDURANCE OF AN ALUMINIUM ALLOY 67-07 M17-72815
SOME FEATURES OF THE BRANCHING OF CRACKS IN STEEL
67-07 M17-73014
CRACK PROPAGATION IN FATIGUE--SOME EXPERIMENTS WITH DTD 5070A ALUMINIUM ALLOY SHEET
67-07 M17-73084
ANALYSIS OF CRACKS AS A METHOD OF ESTIMATING FAILURE CHARACTERISTICS 67-07 M17-73105
STRUCTURE AND PROPERTIES OF ALUMINUM OXIDE WHISKERS 67-07 M17-73135
INFLUENCE OF GRAIN SIZE ON ADSORPTION-CAUSED DECREASE IN STRENGTH OF POLYCRYSTALLINE ZINC
67-07 M17-73167
CRACK PROPAGATION TESTS ON ZIRCALOY-2 REACTOR PRESSURE TUBING IN BOTH THE NORMAL AND HYDRIDED CONDITIONS 67-07 M17-73400
SOME CHARACTERISTICS OF BRITTLE FAILURE OF THE TWO-PHASE STEELS DURING HOT PLASTIC DEFORMATION
67-07 M17-74194
INFLUENCE OF THE ACIDITY OF CORROSION MEDIUM AND POLARIZATION CONDITIONS ON CRACK PROPAGATION KINETICS IN QUENCHED U8 STEEL
67-07 M18-73170
SOME FACTORS AFFECTING THE INITIATION AND PROPAGATION OF CORROSION-FATIGUE CRACKS IN A HIGH CARBON STEEL 67-07 M18-74163
MICROSTRUCTURAL CHARACTERISTICS OF HIGH-TEMPERATURE FATIGUE FRACTURE OF 40KH12N8G8MV AUSTENITIC STEEL, SUBJECTED TO AUSFORMING
67-08 M13-74639
NUCLEATION OF GRAIN BOUNDARY CAVITIES DURING HIGH-TEMPERATURE CREEP 67-08 M14-76204
EFFECT OF THE HOLDING TIME AT MAXIMUM TEMPERATURE ON THE THERMAL FATIGUE LIFE UNDER CONDITIONS OF TRANSIENT TEMPERATURE GRADIENT
67-08 M15-75132
CRACK NUCLEATION SITES IN LOW-CARBON STEELS UNDER EXPLOSIVE LOADING CONDITIONS 67-08 M17-74521
DETERMINATION OF PLANE STRAIN FRACTURE TOUGHNESS
67-08 M17-74683
SOME RELATIONSHIPS IN THE DEVELOPMENT OF DESTRUCTION NUCLEI UNDER THE INFLUENCE OF CREEP
67-08 M17-74964
CRACK SENSITIVITY OF VT14 AND VT16 TITANIUM
67-08 M17-75217
FRACTURE CHARACTERISTICS IN QUENCHED STEEL
67-08 M17-75269
ORIGIN OF MICROCRACKS IN MO-35 AT.PER CENT RE ALLOY
67-08 M17-75282
PROPAGATION OF LONGITUDINAL BRITTLE CRACKS IN INTERSECTING SEAMS 67-08 M17-75403
THE IMPORTANCE OF PROPERTIES OF MATERIALS TO THE DESIGNER 67-08 M17-75612
EFFECTS OF DIRECTION OF TEXTURE IN ROLLED STOCK ON RESISTANCE OF STEEL TO INITIATION AND DEVELOPMENT OF CRACKS 67-08 M17-75731
A COMPARISON OF THE FRACTURE CRITERIA OF GRIFFITH AN BARENBLATT 67-08 M17-75778
INVESTIGATION OF THE INFLUENCE OF PRECIPITATES AND INCLUSIONS ON THE INITIATION AND PROPAGATION OF CLEAVAGE 67-08 M17-76223
ROLE OF SLIP STEP EMERGENCE IN THE EARLY STAGES OF STRESS CORROSION CRACKING IN FACE CENTERED IRON-NICKEL-CHROMIUM ALLOYS 67-08 M18-75773
CORROSION-FATIGUE CRACK PROPAGATION IN MODERN HIGH-PERFORMANCE STRUCTURAL STEELS
67-08 M18-75974
EFFECT OF HYDROGEN ON THE NATURE OF CRACK PROPAGATION IN VT15 TITANIUM ALLOY DURING TENSILE TESTING 67-09 M17-77127
THE PROPAGATION OF TRIPLE-POINT CRACKS IN A SINGLE PHASE, ALUMINIUM-20 PER CENT ZINC ALLOY
67-09 M17-77922
LOW CYCLE FATIGUE CRACK PROPAGATION IN A201B, A302B, AND A517F PRESSURE VESSEL STEELS
67-09 M17-78148
A STUDY ON THE FATIGUE CRACK PROPAGATION OF A CAST SILUMIN CONTAINING COPPER
67-09 M17-78228
ELECTRON MICROSCOPE OBSERVATION OF FRACTURE SURFACE IN AL-ZN POLYCRYSTALLINE ALLOYS
67-09 M17-78248
CAVITY NUCLEATION DURING CREEP OF MAGNOX AL80
67-09 M17-78267
REDUCING THE COOLING TIME FOR INGOT-MOLDS
67-10 M06-78895
FUNDAMENTALS OF THERMOMECHANICAL TREATMENTS
67-10 M10-79210
NONMETALLIC INCLUSIONS IN RAIL STEEL INOCULATED WITH TITANIUM 67-10 M13-80035
SOME REGULARITIES OF WEAR AND WEAR INCREASE OF PUNCHES USED IN CRANK FORGE PRESSES
67-10 M17-78546
EFFECTS OF HEATING RATE AND COOLING RATE ON THE THERMAL FATIGUE LIFE UNDER CONDITIONS OF TRANSIENT TEMPERATURE GRADIENT
67-10 M17-78656
HOT TORSIONAL RUPTURE OF AUSTENITIC AND FERRITIC ALLOYS 67-10 M17-78678
EFFECTS OF ADDING SMALL AMOUNTS OF ZIRCONIUM TO HIGH-TENSILE REINFORCEMENT STEEL ON ITS PROPERTIES 67-10 M17-78930
RESEARCH INTO THE MECHANISM BY WHICH CLAD STEEL PLATE RUPTURES DURING DEFORMATION AT HIGH TEMPERATURES 67-10 M17-78934
EFFECTS OF ULTRASONIC VIBRATIONS ON TECHNICAL PURITY IRON 67-10 M17-78981
FATIGUE CRACK PROPAGATION IN THE HARDENED STEEL
67-10 M17-79598

A NOTE ON THE THIN EXTENSION OF PLASTIC ZONE IN THE DIRECTION OF THE PATH OF THE MOVING BRITTLE CRACK 67-10 M17-79600
RATIO OF THE CRACK FORMATION AND PROPAGATION ENERGIES DURING IMPACT TESTS 67-10 M17-79742
ULTRASONIC DETECTION OF CRACK EXTENSION IN THE W. O. L. TYPE FRACTURE TOUGHNESS SPECIMEN 67-10 M17-79748
INNER SPACE--A METALLURGICAL CHALLENGE 67-10 M17-79781
A STATISTICAL THEORY OF BRITTLE FRACTURE 67-10 M17-80029
BUILDING UP THE CONES OF BLAST FURNACE CHARGING EQUIPMENT 67-11 M11-80555
THE MICROSTRUCTURAL ASPECTS OF TENSILE FRACTURE 67-11 M17-80144
THE INFLUENCE OF REMELTING UNDER VACUUM ON THE PROPERTIES OF HOT WORKED STEELS 67-11 M17-80216
FORMATION AND GROWTH OF MICROCRACKS DURING HYDROGENATION OF STRAINED SILICON IRON 67-11 M17-80596
APPEARANCE OF SUBMICROCRACKS IN ARMCO IRON UNDER STATIC TENSION DURING HYDROGENATION 67-11 M17-80597
PLASTIC-STRAIN DISTRIBUTION AT THE ROOT OF A SHARP NOTCH 67-11 M17-80652
ENGINEERING APPLICATIONS OF FRACTOGRAPHY 67-11 M17-80688
CLEAVAGE PHENOMENA AND TOPOGRAPHIC FEATURES 67-11 M17-80694
WIDESPREAD CASES OF BRITTLE FRACTURE AND THEIR CAUSES 67-11 M17-80878
RESISTANCE OF STRUCTURAL STEEL TO PROPAGATION OF BRITTLE CRACKS 67-11 M17-80959
EFFECT OF REFINING WITH LIQUID SYNTHETIC SLAG ON THE DUCTILE CHARACTERISTICS OF LOW-ALLOY STRUCTURAL STEELS 67-11 M17-80962
THE EFFECT OF ENVIRONMENTS ON FATIGUE-CRACK PROPAGATION IN AN ULTRAHIGH-STRENGTH STEEL 67-11 M17-81033
THE ROLE OF CROSS-SLIP IN BRITTLE FRACTURE AND FATIGUE 67-11 M17-81034
STUDIES ON THE SUBSTRUCTURE DEVELOPED AROUND FATIGUE CRACKS 67-11 M17-81065
THE APPLICATION OF ELECTRON FRACTOGRAPHY TO FATIGUE STUDIES 67-11 M17-81127
FRACTURE TOUGHNESS OF A MEDIUM-STRENGTH STEEL 67-11 M17-81140
DETERMINATION OF BRITTLE FRACTURE BEHAVIOR OF A STEEL BY EVALUATION OF FORCE-FLEXION CURVES OBTAINED FROM NOTCH BEND TESTS 67-11 M17-81381
CAUSES OF HAIRLINE CRACKING IN BILAYER CHROMIUM-NICKEL ROLLS 67-11 M17-81663
PREVENTING BRITTLE FRACTURES OF WELDED STRUCTURES IN ROLLING STOCK 67-12 M11-82315
FAILURE ENERGY OF STEELS IN DYNAMIC BENDING 67-12 M17-81717
RECRYSTALLIZATION, GRAIN GROWTH AND THE DUCTILE-BRITTLE TRANSITION IN TUNGSTEN SHEET 67-12 M17-81822
KINETICS OF STRUCTURAL TRANSFORMATIONS AND FAILURE OF HEAT RESISTANT ALLOYS AT CREEP 67-12 M17-81833
USE OF CRACK-LINE-LOADED SPECIMENS FOR MEASURING PLANE-STRAIN FRACTURE TOUGHNESS 67-12 M17-81855
FRACTOGRAPHIC ANALYSIS OF SPECIMENS SUBJECTED TO CYCLIC STATIC TENSION 67-12 M17-81892
EXAMINATION OF BRITTLE FRACTURE BEHAVIOR BY THE DROP-WEIGHT TEST 67-12 M17-81936
STUDY OF THE KINETICS OF FATIGUE CRACK DEVELOPMENT IN STEELS SUBJECT TO TEMPERING BRITTLENESS 67-12 M17-81998
THE PROPAGATION OF LONGITUDINAL BRITTLE CRACKS IN INTERSECTING WELDS 67-12 M17-82024
A STUDY OF THE MECHANISM EMBRITTLEMENT OF STEEL 67-12 M17-82430
THE CRACK PROPAGATION IN TWO ALUMINIUM ALLOYS, IN AN INDOOR AND AN OUTDOOR ENVIRONMENT, UNDER RANDOM AND PROGRAMMED LOAD SEQUENCES 67-12 M17-82473
FORMATION OF FATIGUE CRACKS IN WELDMENTS UNDER THE EFFECT OF COMPRESSIVE STRESSES 67-12 M17-82630
THE MECHANISM OF STAGE 1 CRACK PROPAGATION IN FATIGUE 67-12 M17-82725
FATIGUE CRACK NUCLEATION IN A HIGH-STRENGTH LOW-ALLOY STEEL 67-12 M17-82727
THE COFFIN-MANSON LAW IN RELATION TO SLIP CHARACTER 67-12 M17-82735
FRACTURE CONSIDERATIONS IN DEFORMATION PROCESSING 67-12 M17-82771
THE FATIGUE BEHAVIOR OF METALLIC MATERIALS 67-12 M17-82837
FAILURE MODES IN NICKEL FATIGUED IN VACUUM AS A FUNCTION OF TEMPERATURE AND PURITY 67-12 M17-82976
A FRACTOGRAPHIC INVESTIGATION OF THE EFFECT OF ENVIRONMENT ON FATIGUE-CRACK PROPAGATION IN AN ULTRAHIGH-STRENGTH STEEL 67-12 M17-83045
MICROSCOPIC FATIGUE FRACTURE SURFACE FEATURES IN 2024-T3 ALUMINUM AND THE INFLUENCE OF CRACK PROPAGATION ANGLE UPON THEIR FORMATION 67-12 M17-83051
FRACTURE BEHAVIOR OF ULTRAHIGH-STRENGTH-STEEL LAMINAR COMPOSITES 67-12 M17-83056
THE DEVELOPMENT OF FIBROUS FRACTURE IN A MILD STEEL 67-12 M17-83066
NUMERICAL ANALYSIS OF CRACK PROPAGATION IN CYCLIC-LOADED STRUCTURES 67-12 M17-83239
A STUDY OF THE LAW OF CRACK PROPAGATION 67-12 M17-83242
THE USE OF DOUBLE CANTILEVER BEAM SPECIMEN FOR DETERMINING THE PLANE STRAIN FRACTURE TOUGHNESS OF METALS 67-12 M17-83248
THE THEORY OF NOTCH-BRITTLENESS IN STEELS OCCURRING DURING TIME-TO -RUPTURE TESTS 67-12 M17-83252
STRESS FIELD INTENSITY FACTORS FOR PROPAGATING BRITTLE CRACKS 67-12 M17-83486

CRACK PROPAGATION
ANALYSIS OF FRACTURE ENERGY IN THE IMPACT TEST
ANALYSIS OF FRACTURE ENERGY IN THE IMPACT TEST 67-12 M17-83579
THE EFFECTS OF ATMOSPHERE ON FATIGUE CRACK PROPAGATION 67-12 M18-82827
AN INCUBATION TIME FOR THE INITIATION OF STRESS-CORROSION CRACKING IN PRECRACKED 4340 STEEL 67-12 M18-83071
LOW ALLOY STEELS RESISTANT TO NITRATES AND TO STRESSES 67-12 M18-83511

CRACK PROPAGATION, COMPOSITION EFFECTS
ON THE FRACTURE OF ZIRCONIUM CONTAINING ZIRCONIUM HYDRIDE PRECIPITATES 67-02 M17-59022

CRACK PROPAGATION, COOLING EFFECTS
THE FREEZE-CRACKING RESISTANCE OF DISTRIBUTING PIPES 67-02 M17-59721
A STUDY OF CRACKING DURING WELDING OF ALUMINUM ALLOYS 67-06 M17-71632

CRACK PROPAGATION, HEATING EFFECTS
ON THE MECHANICAL PROPERTIES OF TI-AL-CO ALLOYS AT ROOM TEMPERATURE 67-02 M17-59989

CRACK PROPAGATION, IMPURITY EFFECTS
RESIDUALS IN STEEL FOR TUBES 67-07 M07-73078

CRACK PROPAGATION, PHASES /STATE OF MATTER/
PHASE TRANSFORMATION DAMAGE IN PLUTONIUM 67-02 M17-59050

CRACK PROPAGATION, STRESS EFFECTS
A DISCUSSION OF SLOW CRACK GROWTH ASSOCIATED WITH PLANE-STRAIN INSTABILITY 67-04 M17-66936
ELECTROCHEMICAL INVESTIGATION OF STRESS CORROSION CRACKING AND ITS PRACTICAL APPLICATION 67-07 M18-73696
CONTRIBUTION TO THE INFLUENCE OF HYDROGEN ON THE CRACK PROPAGATION RATE IN WELDED SEAMS, STRESSED BY VIBRATION 67-08 M17-75319
FATIGUE CRACK PROPAGATION IN A SI-MN STEEL UNDER CONSTANT DEFLECTION 67-08 M17-75972
DEFORMATION PHENOMENA AND CRACK FORMATION IN ROUND SPECIMENS OF A HARDENED CR-MO STEEL IN ROTATING BENDING FATIGUE TESTING 67-09 M17-77086

CRACK PROPAGATION, TEMPERATURE EFFECTS
LOW STRAIN RATE, HIGH STRAIN FATIGUE OF ALUMINUM AS A FUNCTION OF TEMPERATURE 67-12 M17-82855
THE EFFECTS OF TEMPERATURE AND COMPOSITION ON CRACK PROPAGATION IN IRON-SILICON SINGLE CRYSTALS 67-12 M17-82856

CRACK PROPAGATION, WELDING EFFECTS
EFFECTS OF HIGH-FREQUENCY CURRENT IN WELDING ALUMINUM ALLOY 6061 67-02 M11-61581
OBSERVATIONS ON CRACKS IN WELDED PLATE STRESSED AT RIGHT ANGLES TO SURFACE 67-07 M17-73255
RESIDUAL STRESSES AND STRAIN ENERGY IN BUTT WELDS 67-09 M17-77815

CRACK RESISTANCE

SEE CRACK PROPAGATION
CRACK SENSITIVITY
THE EFFECT OF FINITE SPECIMEN WIDTH ON THE RESIDUAL STRENGTH OF LIGHT ALLOY SHEET 67-06 M17-71499
DIRECTIONALITY OF SULFIDE CORROSION CRACKING ON THE HIGH-STRENGTH STEEL PLATE. STUDIES ON SULFIDE CORROSION CRACKING OF WELDABLE HIGH-STRENGTH STEELS. PT. 3 67-07 M17-72525
FACTORS AFFECTING CRACK SENSITIVITY OF LOW-CARBON KILLED STEEL PLATE INGOTS AND METHODS TO IMPROVE THEIR SURFACE QUALITY 67-09 M04-78009
A STUDY OF THE STRAIN-AGE CRACKING CHARACTERISTICS IN WELDED RENE 41--PHASE 1 67-11 M11-80414
FURTHER HEAT AFFECTED ZONE STUDIES IN HEAT RESISTANT NICKEL ALLOYS 67-12 M11-82823
CRACK SENSITIVITY OF HIGH-STRENGTH STEELS WHEN TESTED IN AIR AND IN DISTILLED WATER 67-12 M17-83525
CRACK SENSITIVITY, IMPURITY EFFECTS
EFFECT OF ALUMINUM AND NITROGEN ON CRACK SENSITIVITY OF MEDIUM-CARBON STEEL INGOTS 67-09 M17-78002
CRACK SENSITIVITY, WELDING EFFECTS
A MECHANISM FOR CRACK FORMATION IN HY-80 STEEL WELDMENTS 67-06 M17-70140
CRACKING /FRACTURING/
SEE ALSO STRESS CORROSION CRACKING
STRESS CRACKING
PREVENTION OF MOLYBDENUM ALLOY INGOT CRACKING BY CAPPING 67-01 M03-58462
CRACKING OF BEADS 67-01 M11-58353
STUDY ON PREVENTIVE METHOD FOR WELD CRACKS OF 405 CLAD STEEL BY 13 CR STAINLESS STEEL ELECTRODE 67-01 M11-58698
INVESTIGATION OF HOT TEARING AND MECHANISM OF CRACK FORMATION IN CAST STEEL. CRACK SENSITIVITY TEST PIECE 67-01 M17-57300
MECHANISM OF THE BRITTLE FAILURE OF METALS WITH A BCC LATTICE 67-01 M17-57356
NEW DEVELOPMENTS IN TUBE TESTING MACHINES 67-01 M17-58117
THE EFFECT OF THE PROCESSING OF HIGH-STRENGTH SIEMENS-MARTIN STEELS ON THE TENDENCY TO DELAYED FRACTURE 67-01 M17-58132
INTERCRYSTALLINE FRACTURE OF H-80 STEEL DUE TO REVERSIBLE TEMPER BRITTLENESS 67-01 M17-58180
BRITTLE FRACTURES 67-01 M17-58352
MECHANICAL AND MICROMECHANICAL BEHAVIOR OF BULK POLYCRYSTALLINE BORON 67-01 M17-58422
THE EFFECT OF CHEMICAL POLISHING ON THE STRENGTH AND FRACTURE CHARACTERISTICS OF AMORPHOUS BORON FILAMENTS 67-01 M17-58423
THEORY AND BACKGROUND OF FRACTURE MECHANICS 67-01 M17-58601
STUDY ON HOT-CRACKING OF AUSTENITIC STAINLESS STEEL IN OVERLAY WELDING 67-01 M17-58697
INFLUENCE OF DEOXIDATION METHOD ON HAIRLINE CRACKING OF KILLED LOW CARBON ARMCO-TYPE ELECTRICAL STEEL 67-02 M04-61210
INVESTIGATION OF THE BRITTLE FRACTURE OF SINTERED MATERIALS 67-02 M09-61710
STUDY OF DEFORMATION OF CROSS JOINTS IN HEAVY-GAGE COILED STRUCTURES 67-02 M11-62167
THE PLASTIC DEFORMATION AND FRACTURE OF IRON-3 PER CENT SILICON IN THE TEMPERATURE RANGE 295 TO 473 K 67-02 M17-58957
IMPROVING THE CRACKING RESISTANCE OF MEDIUM-CARBON LOW-ALLOY STEEL 67-02 M17-59185
BRITTLE FRACTURE OF STEELS WITH AN INCREASED YIELD STRENGTH 67-02 M17-59588
EFFECT OF ELECTROPLATED COATINGS ON THE CRACKING OF STEEL DURING TESTS IN AIR AND IN A HYDROGEN ABSORBING CORROSIVE MEDIUM 67-02 M17-59653
RELATION BETWEEN THE CRITICAL RUPTURE STRESSES AND THE FRACTURE TIME DURING EXPLOSIVE LOADING OF METALS 67-02 M17-59668
FISH EYE APPEARING ON THE FATIGUE FRACTURED SURFACE OF BALL BEARING STEEL 67-02 M17-59710
PHYSICAL REASONS FOR THE DIFFERENT GROUPING OF STEELS ACCORDING TO THEIR TRANSITION TEMPERATURE UNDER DIFFERENT TEST CONDITIONS 67-02 M17-59713
IDENTIFICATION OF THE MECHANISM OF METAL FRACTURES BY ELECTRON MICROFRACTOGRAPHY 67-02 M17-59715
FORMATION OF GRIFFITH-CRACKS IN FERRITIC, LAMELLAR-PEARLITIC STEELS 67-02 M17-59717
INFLUENCE OF AGING ON DELAYED FRACTURE OF WELDED JOINTS OF AL-ZN-MG ALLOYS 67-02 M17-59765
PROBLEMS IN WELDING HIGH-STRENGTH STEELS 67-02 M17-59966
CRYSTALLOGRAPHIC ASPECTS OF FRACTURE IN MARTENSITE 67-02 M17-60646
MECHANISM OF BRITTLE FRACTURE 67-02 M17-60706
CHARACTERISTICS OF FRACTURE IN CLAD HIGH-STRENGTH STEELS 67-02 M17-60794
HOT TEARING IN SEMI-CONTINUOUSLY CAST PIPES 67-02 M17-61190
BRITTLE FRACTURE OF LOW-CARBON STEEL WELDS OF 4 TO 8 MM IN THICKNESS 67-02 M17-61243
GRAIN-SIZE-DEPENDENCE IN THE FLOW AND FRACTURE OF ALPHA-ZIRCONIUM 67-02 M17-61294
APPLICATION OF THE VARESTRAINT TECHNIQUE TO THE STUDY OF WELDABILITY 67-02 M17-61582
INVESTIGATION OF THE CRACKING SUSCEPTIBILITY AND MECHANICAL PROPERTIES OF SILICON BRASSES 67-02 M17-62057
TEST ON SULFIDE CORROSION CRACKING OF WELDABLE HIGH-STRENGTH STRUCTURAL STEELS IN OIL REFINING PLANTS 67-02 M18-60716
USE OF CRACK INDICATORS IN RADIOGRAPHY 67-02 M19-59994
DEFORMATION OF BERYLLIUM UNDER HYDROSTATIC PRESSURE TO 15 KILOBARS 67-03 M17-65280
NEW DATA ON STEEL FOR HYDROCRACKING 67-03 M17-65810
HYDROGEN ATTACK OF STEEL UNDER DYNAMIC EXPOSURE CONDITIONS 67-03 M18-65405
NONDESTRUCTIVE EXAMINATION OF RADIOACTIVE MATERIAL USING NEUTRON RADIOGRAPHY 67-03 M19-65015
EFFECTS OF THE INTERNAL SHAPE OF THE MOLD ON THE SURFACE FINISH OF MEDIUM-CARBON STEEL SLABS 67-04 M04-67861
THE DEFORMATION OF TRANSVERSE BUTT JOINTS IN STRUCTURES MADE FROM COILED PLATE METAL 67-04 M11-67176
INFLUENCE OF SULPHUR, PHOSPHOROUS AND SILICON ON SOLIDIFICATION CRACKING IN TYPE 30KH10G10 WELD METAL 67-04 M11-67989
SOME MICROSTRUCTURAL OBSERVATIONS ON THE DEFORMATION AND FRACTURE CHARACTERISTICS OF A NICKEL-BASE ALLOY IN STATIC CREEP 67-04 M13-66946
EFFECT OF INTERNAL WELDING STRESSES ON THE TENDENCY TO CRACKING IN WELDED JOINTS ON MILD STEEL 67-04 M17-66008
FRACTURE OF STEEL BILLETS DUE TO THERMAL STRESSES 67-04 M17-66099
RESISTANCE TO HOT CRACKING OF STEEL REFINED BY MEANS OF SYNTHETIC SLAGS 67-04 M17-66215
BRITTLE FRACTURE IN WELDED JOINTS IN 4-8 MM THICK MILD STEEL 67-04 M17-66516
THE PREVENTION OF HOT CRACKING WHEN DEEP PENETRATION ARC SPOT WELDS ARE MADE 67-04 M17-66518
EXAMPLES OF FRACTURES IN CASTINGS. INCIDENCE OF STRUCTURAL FEATURES 67-04 M17-66595
FORMATION OF A WHITE LAYER IN RAILROAD RAIL HEADS 67-04 M17-66623
MICRO- AND MACROMECHANISMS OF FRACTURE 67-04 M17-66643
CASE HISTORIES OF FAILURES IN TITANIUM AND SUPER-ALLOY FORGINGS 67-04 M17-66689
DEFORMATION AND FRACTURE OF MILD STEEL CHARPY SPECIMENS 67-04 M17-66728
EXPERIMENTAL DETERMINATION OF PLASTIC CONSTRAINT AHEAD OF A SHARP CRACK UNDER PLANE-STRAIN CONDITIONS 67-04 M17-66937
NUMERICAL DESCRIPTIONS OF THE AMBIENT LOW-TEMPERATURE, AND HIGH-STRAIN RATE FLOW AND FRACTURE BEHAVIOR OF PLAIN CARBON STEEL 67-04 M17-66941
NOTCH SENSITIVITY AND CRACK SUSCEPTIBILITY OF ATSM, ATSMU AND AM ALLOYS AND OF THEIR WELDED JOINTS 67-04 M17-67146
NEUTRON DAMAGE TO REACTOR MATERIALS 67-04 M17-67215
THERMAL SHOCK RESISTANCE OF CAST IRONS 67-04 M17-67260
CRACKS AND MICROFISSURES--WELD DEPOSITS 67-04 M17-67493
EFFECTS OF NONMETALLIC INCLUSIONS ON MECHANICAL PROPERTIES OF ELECTRIC RESISTANCE WELDED STEEL TUBES 67-04 M17-67514
THE NATURE OF MICROCRACKS IN ALUMINUM ALLOY PRODUCTS 67-04 M17-67835

STUDY OF FRACTURE SURFACES IN CR18NI9TI TYPE STAINLESS STEELS 67-04 M17-67850
METALLOGRAPHY OF DEFORMATION AND FAILURE IN CROSS-ROLLING 67-05 M07-68402
ANNUAL REVIEW OF UNALLOYED AND ALLOY STEEL CASTINGS. PT. 3 67-05 M07-68522
TEMPERATURE RANGE FOR HOT ROLLING ZN BILLETS INTENDED FOR PROCESSING IN COILS 67-05 M07-68979
THE EFFECT OF THE UNDERLYING METAL ON THE INTERNAL STRESS AND FORMATION OF MICROCRACKS IN ELECTRODEPOSITED CHROMIUM 67-05 M12-68822
INFLUENCE OF THE STRUCTURE ON THE DUCTILITY AND TYPE OF RUPTURE OF KHN70VMTYU AND EI826 ALLOYS 67-05 M17-68354
TORSIONAL FATIGUE TEST OF MILD STEEL CONTAINING NONMETALLIC INCLUSIONS 67-05 M17-68464
X-RAY INVESTIGATION ON FATIGUE FRACTURE OF A NOTCHED STEEL SPECIMEN. --INVESTIGATION ON FATIGUE PROCESS OF COLD ROLLED LOW-CARBON STEEL SPECIMEN BY MEANS OF AN X-RAY MICROBEAM DIFFRACTION TECHNIQUE. PT. 2.-- 67-05 M17-68466
CRACK INITIATION IN POLYCRYSTALLINE ALUMINIUM FATIGUED AT LOW STRAIN 67-05 M17-68762
A FUNDAMENTAL STUDY ON THE CASTING CRACK OF LIGHT METAL ALLOYS. RELATION BETWEEN THE CASTING CONTRACTION STRESS AND THE HOT STRENGTH 67-05 M17-68898
EFFECT OF THE CONDITIONS OF THERMOMECHANICAL WORKING ON FRACTURE IN LEAD ALPHA-BRASS IN THE PROCESS OF ANNEALING 67-05 M17-69276
HOT-CRACKING SUSCEPTIBILITY OF CAST METALS 67-06 M06-71192
CAUSES FOR CRACK DEFECTS IN HOT ROLLED TUBES OF AUSTENITIC STAINLESS STEELS 67-06 M07-71258
INFLUENCE OF FERRITE ON CRYSTALLIZATION OF AUSTENITIC DEPOSIT WELDED METAL AND FORMATION OF HOT CRACKS 67-06 M11-71641
SUBMERGED-ARC WELDING OF ARMY ARMOR 67-06 M11-71683
EXPERIMENTS ON A STRUCTURAL STEEL USING THE S. O. D. NOTCH TOUGHNESS TEST 67-06 M17-69901
FATIGUE FRACTURE IN COPPER AND THE CU-8WT. PER CENT AL ALLOY AT LOW TEMPERATURE 67-06 M17-69947
SOME ASPECTS OF DUCTILE FRACTURE IN METALS 67-06 M17-70623
THE SLIDING PROCESS AS A FRACTURE-INDUCING MECHANISM 67-06 M17-70633
CRACK FORMATION IN HYDROGEN-CHARGED STEEL TENSILE-TEST SPECIMENS 67-06 M17-70839
THE FRACTURE OF BRITTLE MATERIALS 67-06 M17-70896
A STUDY OF CRACKING DURING WELDING OF ALUMINUM ALLOYS 67-06 M17-71632
FAILURE OF A 3000-HP MINE FAN 67-06 M17-71888
ON THE SULPHIDE CORROSION CRACKING OF HIGH STRENGTH STEEL OWING TO H2S IN CHEMICAL PLANTS 67-06 M17-72068
LOW-CYCLE FATIGUE BY CONSTANT AMPLITUDE TRUE MEAN STRESS 67-06 M17-72084
METALLURGICAL STUDY ON CRACKS--THE CASE OF MALLEABLE CAST IRONS 67-06 M17-72154
PLANE STRAIN CRACK TOUGHNESS TESTING OF HIGH STRENGTH METALLIC MATERIALS 67-07 M01-72812
MECHANISM OF THE FORMATION OF INTERNAL HOT CRACKS IN CONTINUOUS-CAST SQUARE STEEL BILLETS 67-07 M04-73004
IMPROVING THE QUALITY OF TRACKLINK CASTINGS 67-07 M06-73054
WELD SURFACE DEFECTS--STRIKES, PITS AND SPATTER 67-07 M11-73306
EFFECT OF CONTINUOUS CASTING CONDITIONS ON THE PROPERTIES OF 1 PER CENT C, 1.5 PER CENT CR BEARING STEEL. PT. 3. STUDY OF CONTINUOUS CASTING OF STEEL 67-07 M17-72554
THE INFLUENCE OF TORSIONAL PRESTRAINING ON NOTCH-BRITTLE FRACTURE 67-07 M17-72625
THE NATURE OF HAIRLINE CRACKS IN ARMCO-TYPE STEEL. PT. 1 67-07 M17-73002
SOME FEATURES OF THE BRANCHING OF CRACKS IN STEEL 67-07 M17-73014
OBSERVATIONS ON AN EFFECT OF THE CHARGE MIXTURE ON THE STRUCTURE AND MECHANICAL PROPERTIES OF BLACK-HEART MALLEABLE CAST IRON 67-07 M17-73243
THE SIGNIFICANCE OF RECENT DEVELOPMENTS IN FRACTURE MECHANICS IN GREAT BRITAIN IN RELATION TO THE SAFETY OF REACTOR PRESSURE VESSELS 67-07 M17-73398
THE DEFORMATION OF WROUGHT BERYLLIUM 67-07 M17-73763
MICROCRACKED OR MICROPOROUS CHROMIUM PLATING 67-07 M17-73819
FORMATION OF SUB-SURFACE CRACKS DURING HOT ROLLING OF AUSTENITIC GRADE STAINLESS STEEL TUBES 67-08 M07-75727
A MULTIBLE TEST APPROACH TO THE PREDICTION OF WELDMENT CRACKING 67-08 M11-76070
CRACK NUCLEATION IN CRYSTALLINE SOLIDS 67-08 M14-75584
CRACKING OF A PRESSURE VESSEL DUE TO PENETRATION BY SOLDER 67-08 M17-74503
INTERGRANULAR FAILURE OF AUSTENITIC STEEL PUMP SPINDLE 67-08 M17-74508
FAILURE OF STEAM PIPE AT LOCAL DEFECTS 67-08 M17-74509
WELDABILITY OF THIN AMG6 ALLOY 67-08 M17-74775
THE CAUSES OF THE FORMATION OF CRACKS IN THE MNA-13-3 COPPER-BASE ALLOY 67-08 M17-74996
THE INTERGRANULAR STRENGTH OF NI-CR-BASE ALLOYS AND THEIR PHASE COMPOSITION 67-08 M17-75025
ENGINEERING APPLICATIONS OF BRITTLE FRACTURE RESEARCH 67-08 M17-75289
EFFECT OF HEAT TREATMENT ON MECHANICAL PROPERTIES OF ABRASIVE GRAIN 67-08 M17-75569
FAULTS IN DESIGN REVEALED BY SERVICE FAILURES. PT. 1 67-08 M17-75614
CHARACTER OF FRACTURE OF SINTERED MATERIALS 67-08 M17-75855
INFLUENCE OF AGING ON RETARDED DESTRUCTION OF WELDED JOINTS OF THE AL-ZN-MG SYSTEM 67-08 M17-76123
DUCTILE YIELDING AND BRITTLE FRACTURE AT THE ENDS OF PARALLEL CRACKS IN A STRETCHED ORTHOTROPIC SHEET 67-08 M17-76157
THE KSLA HOT CRACK TESTING APPARATUS 67-09 M11-78151
MICROSTRUCTURAL DAMAGE ADJACENT TO A BRITTLE FRACTURE 67-09 M13-76651
INFLUENCE OF LIQUID PB-SB ALLOYS ON CRACK FORMATION IN DEFORMED STEEL 67-09 M17-76429
COCKENZIE--BRITTLE FRACTURE FAILURE 67-09 M17-76514
SERVICE PERFORMANCE OF LEAD SHEATHED CABLES SUBJECT TO THERMAL MOVEMENT 67-09 M17-76607
THE RELATIONSHIP BETWEEN THE SUSCEPTIBILITY OF MANGANESE STEELS TO CRACKING, THEIR STRUCTURE, AND THE HEAT TREATMENT CONDITIONS USED 67-09 M17-76818
BRITTLE CRACKS IN TYPE ST3S MILD STEEL STRUCTURES 67-09 M17-76896
DELAYED FAILURE OF CADMIUM PLATED STEELS AT ELEVATED TEMPERATURES 67-09 M17-77261
EFFECT OF SPECIMEN LOADING WHEN TESTING STEELS FOR SUSCEPTIBILITY TO COLD CRACKING DURING WELDING 67-09 M17-77604
A CRITICAL STUDY OF THE ROBERTSON TEST --CRACK ARREST TEST-- 67-09 M17-78041
INFLUENCE OF FERRITE ON THE CRYSTALLISATION OF AUSTENITIC WELD METAL AND THE FORMATION OF HOT CRACKS DURING WELDING 67-10 M11-79608
INDIVIDUAL CHARACTERISTICS OF MELTS OF CARBURIZED STEELS 67-10 M14-78829
IMPROVING THE TEAR RESISTANCE OF MEDIUM-CARBON AND LOW-ALLOY STEEL 67-10 M17-78894
RELATION BETWEEN INTERNAL STRESSES AND MECHANICAL PROPERTIES OF BRASS TUBES MADE BY COLD WORKING 67-10 M17-79744
ANALYSIS OF TOOL AND DIE FAILURES 67-11 M17-80686
STRESS-RELIEF CRACKING IN CARBON AND LOW-ALLOY STEELS 67-11 M17-81003
IMPROVEMENT OF FATIGUE LIFE BY DISPERSAL OF CYCLIC STRAIN 67-11 M17-81528
TEARING DURING THE CONTINUOUS CASTING OF IRON PIPES 67-12 M04-81881
WHY CRACKS OCCUR IN CONTINUOUSLY CAST CARBON STEEL BILLETS 67-12 M04-83457
RESIDUAL STRESS IN CAST IRON TUBES 67-12 M06-82087
MECHANISM OF HOT CRACKING DURING WELDING 67-12 M13-82309
THERMAL SHOCK AND FRACTURE IN CERAMICS 67-12 M17-81898
THE ENERGY CHARACTERISTICS OF IMPEDED FRACTURE OF HARDENED STEEL 67-12 M17-82125
USE OF THE ENERGY OF CRACK PROPAGATION TO DETERMINE

THE TENDENCY OF A METAL TO IRREVERSIBLE DAMAGE DURING CYCLIC LOADING 67-12 M17-82415
ADSORPTION-INDUCED REDUCTION IN THE STRENGTH OF ZINC COATED WITH THIN MERCURY FILMS OVER A LIMITED SURFACE AREA 67-12 M17-82437
SOME OBSERVATIONS ON CRACK EXTENSION IN TWO-PHASE MATERIALS 67-12 M17-82979
THE DEVELOPMENT OF FIBROUS FRACTURE IN A MILD STEEL 67-12 M17-83066

CRACKING /FRACTURING/, ALLOYING EFFECTS
EFFECTS OF NI AND CR ON SOME PROPERTIES OF PLAIN CARBON STEEL 67-04 M17-67561
INOCULATING IRON FOR MOLDS WITH TITANIUM 67-07 M04-73779
CRACK RESISTANCE OF COPPER WELDS CONTAINING BI AND PB IMPURITIES 67-08 M11-74370
EFFECTS OF ALUMINIUM NITRIDE ON THE PROPERTIES OF STEEL 67-08 M14-74736
EFFECT OF ADDITIONAL ELEMENTS ON WELD CRACK SUSCEPTIBILITY OF AL-ZN-MG ALLOYS 67-08 M17-75768
INOCULATING IRON FOR INGOT MOULDS WITH TITANIUM 67-09 M04-76542
EFFECTS OF ALUMINIUM NITRIDE ON THE PROPERTIES OF STEEL 67-09 M14-77379
EFFECTS OF ANNEALING AT HIGH TEMPERATURES ON THE PROPERTIES OF NICKEL-CHROMIUM ALLOYS 67-09 M17-76716
CRACK RESISTANCE OF COPPER WELDS CONTAINING BI AND PB 67-12 M11-82243
STATISTICAL STUDY ON THE INFLUENCE OF ADDITION ELEMENTS ON WELD CRACKING IN AG 3 ALLOYS 67-12 M17-83341

CRACKING /FRACTURING/, COMPOSITION EFFECTS
ON THE FRACTURE OF ZIRCONIUM CONTAINING ZIRCONIUM HYDRIDE PRECIPITATES 67-02 M17-59022
HYDROGEN ACTION IN THE PHENOMENA OF DELAYED FRACTURE IN THE FIELD OF HIGH-STRENGTH STEELS 67-02 M17-59711
THE PROPERTIES OF CAST 25 PER CENT CHROMIUM-20 PER CENT NICKEL AUSTENITIC STEELS IN RELATION TO THEIR USE AT ELEVATED TEMPERATURES 67-06 M17-70531
EFFECT OF GAS CONTENT ON THE TENDENCY TO DELAYED FAILURE AND COLD CRACKING WHEN WELDING CERTAIN TITANIUM ALLOYS 67-07 M17-73967
CARBON CONTROL STOPS CRACKING IN TYPE 316 67-11 M17-81192
EFFECT OF DELTA FERRITE ON THE HOT CRACKING OF STAINLESS STEEL 67-12 M11-82821

CRACKING /FRACTURING/, COOLING EFFECTS
SOME ASPECTS OF CRACK FORMATION WHEN PRODUCING ROUND INGOTS WITH LARGE CROSS SECTIONS 67-08 M03-75094
SURFACE DEFECTS OF STEEL CASTINGS 67-12 M06-83571

CRACKING /FRACTURING/, HEATING EFFECTS
THE MICROFRACTOGRAPHIC CHARACTERISTICS OF THE FRAGILITY OF REVERSIBLE TEMPERING OF STEELS 67-02 M17-60553
WELD-METAL MICROCRACKING IN REHEATED WELDS 67-07 M17-74284
THE EFFECT OF TEMPERATURE ON THE LOW-CYCLE FATIGUE BEHAVIOR OF UDIMET 700 67-08 M17-75976

CRACKING #FRACTURING#, HEATING EFFECTS
FORMATION OF SURFACE CRACKS ON 4KH13 STEEL AND
FORMATION OF SURFACE CRACKS ON 4KH13 STEEL AND METHODS FOR THEIR PREVENTION
METHODS FOR THEIR PREVENTION 67-12 M17-83544

CRACKING /FRACTURING/, IMPURITY EFFECTS
EFFECT OF SULFUR, PHOSPHORUS AND SILICON ON CRYSTALLIZATION CRACKING IN TYPE 30KH 10G10 BUILT-UP METAL 67-02 M11-60832
FAILURE FROM INTERNAL, LAMINAR DEFECTS 67-08 M17-74504

CRACKING /FRACTURING/, MATHEMATICAL ANALYSIS
THE MECHANISM OF HOT CRACKING DURING WELDING 67-07 M11-72730

CRACKING /FRACTURING/, PRESSURE EFFECTS
THE TESTING OF THE BEHAVIOR OF METAL PIPELINES UNDER VARYING INTERNAL HYDRAULIC PRESSURE 67-07 M17-73149

CRACKING /FRACTURING/, STRESS EFFECTS
STUDY OF DEFORMATION AND CRACKING IN THIN FOILS OF CHROMIUM 67-04 M17-66490
FORMATION OF BRITTLE CRACKS IN STEEL DURING TWINNING 67-04 M17-66491
A DISCUSSION OF SLOW CRACK GROWTH ASSOCIATED WITH PLANE-STRAIN INSTABILITY 67-04 M17-66936
THE EFFECT OF PRE-STRAIN AND STRAIN-AGEING ON THE CLEAVAGE FRACTURE OF A LOW CARBON STEEL 67-06 M17-70433
DEFECTS IN STEEL PRODUCTS. RATIONAL APPROACH TO ANALYSIS OF DEFECTS IN FINISHED PRODUCTS --DEFECTOLOGY-- 67-07 M17-72901
STRAIN-CYCLE PHENOMENA IN THIN-WALL TUBING 67-07 M17-73391
A WELDED PISTON MADE OF SILUMIN FOR THE D70 DIESEL LOCOMOTIVE 67-08 M11-75409
WELDED SILUMIN PISTONS FOR D70 LOCOMOTIVE ENGINES 67-12 M11-82030

CRACKING /FRACTURING/, TEMPERATURE EFFECTS
THE BEHAVIOR OF COATINGS AT EXTREMELY LOW TEMPERATURES 67-02 M17-59077
BEHAVIOR OF WELDED NIPPLES AND CONNECTING SLEEVES WHEN SUBMITTED TO ABRUPT TEMPERATURE CHANGES 67-07 M17-73711
CREEP RUPTURE AND DYNAMIC STRENGTH TESTS OF TI ALLOYS TIALV4, TIAL6V4 AND TIAL9V3 AT TEMPERATURES OF 350 TO 500 C 67-08 M17-75324
INFLUENCE OF COOLING RATES ON CRACK FORMATION DURING STEEL QUENCHING 67-09 M10-77403
TEMPERATURE DEPENDENT SHEAR RUPTURE IN LOW CHROMIUM AND MOLYBDENUM STEELS 67-09 M17-78231

CRACKING /FRACTURING/, WELDING EFFECTS
PREVENTION OF BRITTLE FRACTURES IN WELDED STRUCTURES 67-02 M17-61650
WELDING METALLURGY OF CAST AUSTENITIC MATERIALS 67-06 M11-70536
FAILURES OF HEADER SUPPORT BRACKET ASSEMBLIES 67-06 M11-70538
CRACKS IN THE BOTTOM PLATING AT THE STERN OF A SHIP 67-08 M17-75535
CRACKS AND MICROFISSURES--BASE METALS 67-09 M11-77711

CRACKING PROCESS
SEE CATALYTIC CRACKING

CRACKS
THE WELDING OF 35GS REINFORCING STEEL DURING THE CONSTRUCTION OF PITHEAD GEAR IN WINTER 67-02 M11-59643
INDIVIDUAL PROPERTIES OF THE MELTS OF CARBURIZING STEELS 67-02 M14-61972
INVESTIGATION OF THE CRACKING SUSCEPTIBILITY AND MECHANICAL PROPERTIES OF SILICON BRASSES 67-02 M17-62057
ULTRASONIC MEASUREMENTS ON REINFORCED GRAVEL-AGGREGATE CONCRETES 67-07 M19-73073
INTERGRANULAR FISSURIZATION --CRACKING-- OF STEEL --1 PER CENT C-- BY LIQUID LI 67-10 M14-79892

CRACKS, COMPOSITION EFFECTS
HIGH-TEMPERATURE OXIDATION MECHANISM IN 2.5 PER CENT TIN-ZIRCONIUM ALLOY 67-01 M18-58745

CRANES, MECHANICAL PROPERTIES
FATIGUE FAILURE OF COMPONENTS OF LIFTING MACHINERY 67-08 M17-74502

CRANES, WELDING
LENGTHENING THE SERVICE LIFE OF CRANE WHEELS 67-02 M11-60198

CRANKCASES
OPERATING EXPERIENCE IN THE CASTING OF COMPLEX V ENGINES 67-07 M06-72489

CRANKCASES, CASTING
EFFICIENT MELTING AND CASTING METHODS IN THE MASS PRODUCTION OF LIGHT-METAL CASTINGS 67-06 M06-71190

CRANKSHAFTS
HIGH-STRENGTH STEELS WITH LOW NI CONTENT FOR LARGE SIZE FORGINGS 67-02 M17-61968
CAST DIES FOR CAR PART FORGINGS 67-03 M06-65675
NEW DATA ON FATIGUE LIFE OF MALLEABLE IRON PARTS 67-03 M17-65024
FROM EUROPE COMES A GROUP OF WELL-TRIED CR-MO AND CR-MO-V NITRIDING STEELS 67-03 M17-65982
INCREASE OF THE WORKING LIFE OF TRACTOR PARTS 67-08 M17-74969
THE USE OF SPHEROIDAL CAST IRON IN CRANKSHAFTS 67-11 M20-81544

CRANKSHAFTS, CASTING
CASTING CRANKSHAFTS IN MAGNESIUM IRON FOR THE K-650 MOTORCYCLE ENGINE 67-02 M06-59175
MAKING NODULAR IRON CASTINGS AT MCKINNON INDUSTRIES 67-06 M06-70590
FATIGUE STRENGTH AND DAMPING CHARACTERISTICS OF

CRANKSHAFTS

MAGNESIUM IRON FOR MOTORCYCLE CRANKSHAFTS 67-07 M17-74046
CAST MAGNESIUM-TREATED IRON CRANKSHAFTS FOR K-650 MOTORCYCLE ENGINES 67-10 M06-78884
CRANKSHAFTS, CASTINGS
GENERAL MOTORS BUILDS FOUNDRY OF TOMORROW 67-05 M20-68686
CRANKSHAFTS, HARD SURFACING
EFFECT OF TECHNOLOGICAL FACTORS OF VIBROARC BUILDUP ON PHASE COMPOSITION OF 30KH10G10 STEEL 67-02 M11-62163
RELIABILITY AND LIFE OF RECLAIMED CRANKSHAFTS OF TRACTOR MOTORS 67-06 M11-72310
THE RELIABILITY AND LIVES OF BUILT UP CRANKSHAFTS FOR VEHICLE AND TRACTOR ENGINES 67-11 M11-81582
CRANKSHAFTS, HARDENING
THE PROBLEM OF STRENGTHENING LARGE SIZE COMPRESSOR CRANKSHAFTS 67-07 M10-73199
CRANKSHAFTS, HEAT TREATMENT
HEAT TREATING CRANKSHAFTS 67-02 M10-59456
EFFECTS OF THE HARDNESS OF 45 STEEL, RESULTING FROM QUENCHING IT, ON ITS ENDURANCE AFTER HIGH-TEMPERATURE TEMPERING 67-10 M17-78933
CRANKSHAFTS, HEATING
MECHANIZED ELECTRIC HEATING OF CRANKSHAFT BILLETS 67-09 M10-76413
CRANKSHAFTS, MACHINING
MACHINING CAST NODULAR-IRON CRANKSHAFTS 67-01 M08-58570
CRANKSHAFTS, MATERIALS
THE STRUCTURE AND MECHANICAL PROPERTIES OF 30HGSNML HIGH-STRENGTH CAST STEEL 67-02 M17-58861
HIGH-STRENGTH STEELS WITH A LOW NICKEL CONCENTRATION FOR LARGE FORGED PIECES 67-10 M17-78825
CRANKSHAFTS, MECHANICAL PROPERTIES
A METHOD OF COMPARING THE EFFECTIVENESS OF STRENGTHENING MACHINE COMPONENTS WITH RESULTS OF SPECIMEN TESTING 67-02 M17-58836
A METHOD OF COMPARING THE EFFECTIVENESS OF THE HARDENING OF MACHINE PARTS WITH THE RESULTS OF SAMPLE TESTS 67-04 M17-68082
DETERMINING THE STRENGTH AND PLASTICITY OF NODULAR IRON IN CRANKSHAFT CASTINGS BY THEIR HARDNESS 67-08 M17-75199
CRANKSHAFTS, METAL WORKING
MECHANIZING THE PROCESS OF DROP FORGING CRANKSHAFTS 67-02 M07-59825
CRANKSHAFTS, NONDESTRUCTIVE TESTING
RECENT DEVELOPMENTS IN THE USE OF ULTRASONIC EQUIPMENT FOR DIMENSIONAL EVALUATION OF DEFECTS 67-10 M19-78862
CRANKSHAFTS, ROLLING
TANGENTIAL ROLLING INCREASES CRANKSHAFT LIFE 67-04 M08-66118
CRANKSHAFTS, WEAR
WEAR RESISTANCE OF ISOTHERMALLY QUENCHED NODULAR CAST IRON 67-02 M17-61014
CRANKSHAFTS, WELDING
ELECTROSLAG WELDING IN THE MANUFACTURE OF CRANKSHAFTS 67-09 M11-76900
HARDSURFACING OF CAST IRON CRANKSHAFTS FOR GAZ-M-21 MOTORS 67-09 M11-78126
FATIGUE RESISTANCE OF WELDED LARGE-SIZE DIESEL CRANKSHAFTS 67-10 M11-78409
CRATERING /WEAR/
SEE WEAR
CRATERING /WELDING/
SEE WELD DEFECTS
CREEP /MATERIALS/
SEE ALSO CREEP RECOVERY
CREEP RUPTURE STRENGTH
CREEP STRENGTH
RATE OF CREEP
SINTERING KINETICS AND DIFFUSION CREEP OF SOLIDS 67-01 M09-57347
A CONSTANT-STRESS, VACUUM CREEP-TESTING APPARATUS 67-01 M17-57544
SHORT-TIME CREEP OF REINFORCING 35GS STEEL 67-01 M17-57676
THE EFFECT OF DEFORMATION ON PRECIPITATION OF THETA PRIME AND THETA IN AL-4 PER CENT CU 67-01 M17-57937
ON THE INTERACTION BETWEEN DISLOCATION AND SOLUTE ATOM IN LOW-ALLOY HEAT-RESISTING STEELS 67-01 M17-58325
THE OXIDATION OF NICKEL IN THE TEMPERATURE RANGE 700 TO 1100 C 67-01 M18-58124
RECRYSTALLIZATION DURING CREEP OF NICKEL 67-02 M17-58953
EFFECT OF SURFACES ON MECHANICAL BEHAVIOR OF METALS 67-02 M17-59105
CREEP DEFORMATION OF ROLLED ZN-TI ALLOYS 67-02 M17-59427
A STUDY OF THE MECHANISM OF INTERGRANULAR CREEP CAVITATION BY SHADOWGRAPHIC ELECTRON MICROSCOPY 67-02 M17-60641
DIFFUSION CREEP IN POLYCRYSTALLINE SOLIDS 67-02 M17-60753
CREEP OF METALS BY THE COMBINED STATE OF STRESS 67-02 M17-60801
INDENTATION HARDNESS AND THE CREEP OF SOLIDS 67-02 M17-61291
A COMMENT ON DIFFUSION CREEP DEFORMATION IN A MAGNESIUM REACTOR COMPONENT 67-03 M14-65862
TECHNIQUES FOR ANALYZING COMBINED FIRST-AND SECOND-STAGE CREEP DATA 67-03 M17-65095
EFFECT OF MICROSTRUCTURE ON CREEP MECHANISMS IN CERAMICS 67-03 M17-65334
ON THE CREEP BEHAVIOR OF SILVER. PT. 1. THE OXYGEN FREE METAL 67-04 M17-66061
ON THE CREEP BEHAVIOR OF SILVER. PT. 2. OXYGEN EFFECTS 67-04 M17-66062
ON THE CREEP BEHAVIOR OF SILVER. PT. 3. IMPURITY EFFECTS 67-04 M17-66063
THE EFFECTS OF LOAD AND TEMPERATURE CYCLING ON THE CREEP BEHAVIOR OF A NICKEL-BASE ALLOY 67-04 M17-66932
THE HIGH-TEMPERATURE STEADY-STATE CREEP OF PURE SILVER AND INTERNALLY OXIDIZED SILVER-MAGNESIUM ALLOYS 67-04 M17-66935
HEAT OF ACTIVATION OF SECONDARY CREEP IN AL-MG ALLOYS 67-05 M17-69135
CAVITY DEVELOPMENT DURING CREEP OF A DILUTE NICKEL ALLOY 67-05 M17-69565
CONCENTRATION DEPENDENCE OF THE LINEAR CREEP LIMIT OF CU-NI ALLOYS 67-05 M17-69667
PROPERTIES OF IRIDIUM AT HIGH TEMPERATURES-- RESISTANCE TO CREEP AND OXIDATION 67-05 M17-69733
HIGH-TEMPERATURE CREEP OF AL2O3 CERAMICS 67-06 M17-70565
INTERNAL FRICTION AND CREEP OF AN ALUMINUM-ZINC EUTECTOID ALLOY 67-06 M17-71132
COMMENT ON CAVITY GROWTH MECHANISMS DURING CREEP 67-06 M17-72227
DISLOCATION DENSITY AND LOCAL SLIP IN GERMANIUM SINGLE CRYSTALS 67-07 M13-73928
RELATIONSHIP BETWEEN STRUCTURE, CREEP BEHAVIOR, AND HARDNESS OF ALLOYS IN THE WC-TIC-CO SYSTEM 67-07 M17-72679
YIELD AND SECOND-ORDER EFFECTS INDUCED BY CYCLIC STRAIN IN COPPER UNDER TENSION 67-07 M17-73918
SOME EFFECTS OF TEMPERATURE CYCLING ON THE CREEP BEHAVIOR OF A NICKEL-BASE ALLOY 67-08 M10-75137
CORRELATION OF LOCAL ORDER WITH MECHANICAL PROPERTIES 67-08 M14-75341
NUCLEATION OF GRAIN BOUNDARY CAVITIES DURING HIGH-TEMPERATURE CREEP 67-08 M14-76204
SOME RELATIONSHIPS IN THE DEVELOPMENT OF DESTRUCTION NUCLEI UNDER THE INFLUENCE OF CREEP 67-08 M17-74964
MECHANICAL PROPERTIES OF METALS 67-08 M17-75600
THE IMPORTANCE OF PROPERTIES OF MATERIALS TO THE DESIGNER 67-08 M17-75612
DETERMINATION OF THE HEAT RESISTANCE OF TITANIUM ALLOYS 67-08 M17-76012
INFLUENCE OF THE STRUCTURE ON THE CREEP RESISTANCE OF REFRACTORY ALLOYS 67-08 M17-76040
EFFECT OF MGO AND MGTIO3 DOPING ON DIFFUSION-CONTROLLEC CREEP OF POLYCRYSTALLINE ALUMINUM OXIDE 67-08 M17-76095
CREEP-ELECTRICAL CONDUCTIVITY CORRELATIONS IN POLYCRYSTALLINE BERYLLIUM OXIDE 67-08 M17-76097
SOME OBSERVATIONS ON THE COMPRESSIVE CREEP BEHAVIOUR OF A DELTA-STABILIZED PLUTONIUM-1 WT PER CENT GALLIUM ALLOY 67-09 M17-76331
STEADY-STATE CREEP OF PLUTONIUM 67-09 M17-76333
MECHANICAL PROPERTIES AND COMPATIBILITY OF URANIUM-PLUTONIUM CARBIDES 67-09 M17-76341
THE CREEP OF SPHERICAL SHELLS CONTAINING

DISCONTINUITIES 67-09 M17-76450
TESTS ON THIRTEEN DIFFERENT LEAD CABLE SHEATHING MATERIALS 67-09 M17-76606
SERVICE PERFORMANCE OF LEAD SHEATHED CABLES SUBJECT TO THERMAL MOVEMENT 67-09 M17-76607
INVESTIGATION OF THE RHEOLOGICAL PROPERTIES OF NEW TYPE REINFORCEMENT FROM STEEL OF THE A-IV CLASS 67-09 M17-76963
ABNORMAL PHENOMENA AT STRESS RELAXATION IN BERYLLIUM BRONZE 67-09 M17-77128
THE CREEP PROPERTIES OF A COMPACTED MAGNESIUM ALLOY POWDER 67-09 M17-77472
COMMENTS RECRYSTALLIZATION DURING CREEP OF NICKEL 67-09 M17-77599
ON VOID FORMATION IN NICKEL DURING CREEP 67-09 M17-77936
CORROSION RESISTANCE OF LEAD IN SULPHURIC ACID UNDER STATIC AND ALTERNATING STRESS 67-09 M18-76613
MARTENSITIC TRANSFORMATION AT VERY LOW-TEMPERATURES IN 18-10 LOW-CARBON AUSTENITIC STEELS DURING WORK HARDENING AND CREEP 67-10 M14-79936
BEHAVIOR OF MATERIALS FOR CHEMICAL APPARATUS AT HIGHER TEMPERATURES 67-10 M17-79095
STUDIES ON THE SUBSTRUCTURE DEVELOPED DURING CREEP DEFORMATION OF COPPER CRYSTALS 67-11 M13-80953
HERRING-NABARRO CREEP STUDIES ON THE SELF-DIFFUSION OF IRON IN THE PRESENCE OF SOLUTES 67-11 M14-80621
GRAPHITE 67-11 M16-80466
NATURE OF CREEP CAVITIES IN TUNGSTEN . 67-12 M13-83065
STEELS FOR BOILER PLATE AND PRESSURE EQUIPMENT PERFORMING AT HIGH TEMPERATURES. PT. 8 67-12 M17-82143
APPARENT ACTIVATION ENERGIES FOR THE CREEP OF TECHNICAL VANADIUM BETWEEN 500 AND 800 C 67-12 M17-82233
THE MECHANISM OF HIGH TEMPERATURE STEADY STATE CREEP OF METALS AND ALLOYS 67-12 M17-82416
CONTRIBUTION TO THE DISPERSION-HARDENING OF AG 67-12 M17-82666
LOW CYCLE FATIGUE STRENGTH OF SHIP STRUCTURAL STEELS 67-12 M17-82923
MECHANISM OF CREEP IN MGO BRICK 67-12 M17-82993
RESEARCH ON THE APPEARANCE AND DEVELOPMENT OF EXTRUSIONS AND INTRUSIONS IN IRON AND COPPER 67-12 M17-83514

CREEP /MATERIALS/, ALLOYING EFFECTS
INFLUENCE OF ZN ON THE PROPERTIES OF CREEP-RESISTING MG-ND-ZR ALLOYS 67-02 M17-61197
EFFECTS OF IRON AND MOLYBDENUM ON THE HIGH-TEMPERATURE PROPERTIES OF CHROMIUM BASE ALLOYS 67-09 M17-78238
PROGRESS IN THE MANUFACTURE OF LARGE FORGINGS 67-10 M07-79285

CREEP /MATERIALS/, COMPOSITION EFFECTS
TRANSMISSION ELECTRON MICROSCOPIC OBSERVATION OF LOW CARBON STEELS DURING CREEP 67-07 M17-72982
EFFECT OF GAS CONTENT ON THE TENDENCY TO DELAYED FAILURE AND COLD CRACKING WHEN WELDING CERTAIN TITANIUM ALLOYS 67-07 M17-73967

CREEP /MATERIALS/, COOLING EFFECTS
EFFECTS OF THE RATE AT WHICH KHN77TYUR --EI437B-- ALLOY IS COOLED FROM THE HOMOGENIZATION TEMPERATURE ON ITS STRUCTURE AND PROPERTIES 67-09 M17-77060
INFLUENCE OF INTERMEDIARY COOLING ON THE PRIMARY CREEP OF CRMOV ALLOYED STEELS 67-09 M17-77586

CREEP /MATERIALS/, GRAIN BOUNDARIES
CALCULATION OF THE DEFORMATION CAUSED BY GRAIN BOUNDARY SLIDING DURING THE CREEP OF POLYCRYSTALLINE SOLIDS 67-06 M14-71626

CREEP /MATERIALS/, HEATING EFFECTS
THE EFFECTS OF EXTENDED ANNEALING AT 500 TO 700 C. ON THE CREEP CHARACTERISTICS OF 13 CR MO 44 AT 550 C 67-06 M17-70260

CREEP /MATERIALS/, PRESSURE EFFECTS
PRESSURE DEPENDENCE OF HIGH-TEMPERATURE CREEP IN SINGLE CRYSTALS OF INDIUM 67-12 M14-82375

CREEP /MATERIALS/, RADIATION EFFECTS
THE USE OF SPHERICAL UO2 IN A CERMET FUEL PLATE 67-06 M16-71053

CREEP /MATERIALS/, STRESS EFFECTS
CREEP OF THICK-WALLED CYLINDERS UNDER REPEATED VARYING INTERNAL PRESSURE 67-07 M17-72980
INFLUENCE OF PRESSURE UPON THE SINTERING KINETICS OF SILVER 67-12 M17-82579
THE STRESS SENSITIVITY OF CREEP OF LEAD AT LOW STRESSES 67-12 M17-82870
A COMPREHENSIVE CREEP MODEL 67-12 M17-83243

CREEP #MATERIALS#, STRESS EFFECTS
TORSION CREEP OF CIRCULAR AND NONCIRCULAR TUBES
TORSION CREEP OF CIRCULAR AND NONCIRCULAR TUBES 67-12 M17-83568

CREEP /MATERIALS/, TEMPERATURE EFFECTS
REDUCED SERVICE LIFE OF STRUCTURAL BOILER PARTS WHEN PERMISSIBLE OPERATING TEMPERATURES ARE EXCEEDED 67-06 M17-70083
HIGH TEMPERATURE CREEP STUDIES ON AUSTENITIC STAINLESS STEELS IN VACUUM 67-06 M17-70560

CREEP FORMING
MEASUREMENT OF BIAXIAL CREEP STRAINS USING THE MOIRE METHOD 67-06 M17-70867

CREEP LIMIT
SEE CREEP /MATERIALS/

CREEP MACHINES
A CONSTANT-STRESS, VACUUM CREEP-TESTING APPARATUS 67-01 M17-57544
APPARATUS CONSIDERATIONS IN CREEP TESTING 67-05 M17-69198
THE PROBLEM OF THE CREEP OF METALS. PT. 20. CREEP AND RUPTURE TESTING MACHINES 67-09 M17-77554

CREEP PROPERTIES
SEE CREEP /MATERIALS/

CREEP RATE
SEE RATE OF CREEP

CREEP RECOVERY
EFFECT OF NITROGEN AND MANGANESE ON RECOVERY RATE AND FRICTION STRESS DURING CREEP OF IRON 67-04 M17-66995
CREEP--FATIGUE BEHAVIOR OF POLYCRYSTALLINE ZINC 67-06 M17-70956
WORK HARDENING AND RECOVERY IN CREEP 67-07 M17-73499
THE KINETICS OF THE RECOVERY OF CREEP PROPERTIES DURING ANNEALING OF NIMONIC 80A AFTER CREEP AT 750 C 67-11 M17-81526

CREEP RECOVERY, HEATING EFFECTS
EMBRITTLING PHENOMENON OF COPPER ALLOYS DURING ANNEALING. PT. 3. GRAIN SIZE DEPENDENCE OF EMBRITTLING PHENOMENON OF BRASS DURING ANNEALING 67-06 M17-71441

CREEP RESISTANCE
SEE CREEP STRENGTH

CREEP RUPTURE
SEE CREEP RUPTURE STRENGTH

CREEP RUPTURE STRENGTH
CREEP RUPTURE STRENGTH OF NOTCHED ALUMINUM SPECIMENS 67-01 M17-57589
CREEP PROPERTIES OF 18-10 AND 25-20 STAINLESS STEELS AT CRYOGENIC TEMPERATURES 67-01 M17-57631
DEPENDENCE OF THE MECHANICAL AND HEAT RESISTING PROPERTIES OF ST1 TITANIUM ALLOY ON HEAT TREATMENT 67-01 M17-58130
INFLUENCE OF STRUCTURE ON FATIGUE PROPERTIES OF STEEL 67-01 M17-58372
CREEP-RUPTURE PROPERTIES OF 1 PER CENT CR-0.5 PER CENT MO, 1.25 PER CENT CR-0.5 PER CENT MO AND 2.25 PER CENT CR-1 PER CENT MO STEELS FOR BOILERS AND CHEMICAL USES 67-01 M17-58563
SOME CORRELATION PROCEDURES BASED ON THE LARSON-MILLER PARAMETER AND THEIR APPLICATION TO REFRACTORY METAL DATA 67-02 M17-59436
INVESTIGATION OF THE STRESS-RUPTURE STRENGTH OF CAST AND FORGED 15KH1M1F STEEL 67-02 M17-59670
COMPARATIVE INVESTIGATION OF THE HEAT RESISTANCE OF TWO BRANDS OF AUSTENITIC STEEL 67-02 M17-59687
SHORT-TIME CREEP AND RELAXATION OF HEAT RESISTANT MATERIALS 67-02 M17-59688
ON THE EQUALITY OF ACTIVATION ENERGY OF STRESS RUPTURE RESULTING FROM CREEP AND DISLOCATION MOVEMENT IN HIGH-ALLOY STEELS 67-02 M17-59936
INFLUENCE OF ANNEALING ON CREEP STRENGTH OF KH18N10T STEEL WELDS 67-02 M17-60133
INCREASING THE HIGH TEMPERATURE STRENGTH OF METALS BY PRODUCING STABLE DISLOCATION STRUCTURES 67-02 M17-60295
INCREASING THE HIGH-TEMPERATURE STRENGTH OF NICKEL BY HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT

67-02 M17-60296
INCREASE IN THE HIGH-TEMPERATURE STRENGTH OF IRON-NICKEL ALLOY BY PHASE HARDENING
67-02 M17-60300
CREEP RESISTANCE OF WELDED JOINTS OF HEAT RESISTANT PEARLITIC STEELS 67-02 M17-61248
COOPERATIVE STUDY ON THE SCATTERING OF CREEP RUPTURE LIFE OF LOW CARBON STEEL AT ELEVATED TEMPERATURE 67-02 M17-61853
CREEP-RUPTURE PROPERTIES UNDER CONDITIONS OF CONSTANT AND VARYING STRESSES
67-03 M17-65017
THE PROBLEM OF THE CREEP OF METALS. PT. 18. MORE INFORMATION ON HIGH TEMPERATURE TENSILE PROPERTIES 67-03 M17-65169
ELEVATED TEMPERATURE PROPERTIES OF HEAVY GAUGE CR-MO STEEL PLATES 67-03 M17-65312
DISPERSION-STRENGTHENED CERAMICS
67-03 M17-65336
A MECHANISM FOR LOWERING THE CREEP STRENGTH OF METAL IN A SURFACE-ACTIVE LIQUID-METALLIC MEDIUM
67-03 M17-65799
GERMAN SILVERS IN THE FIRST AND SECOND CATEGORIES. PT. 3 AND 4 67-04 M01-66667
INFLUENCE OF ZIRCALLOY 2 TRANSFORMATION CONDITIONS ON THE STRUCTURE AND MECHANICAL PROPERTIES OF FINISHED AND SEMIFINISHED PRODUCTS
67-04 M14-66043
BEHAVIOR OF CHANGES OF PRECIPITATE OF NI-BASE HEAT RESISTING NO. 64BC ALLOY 67-04 M14-67567
POSTIRRADIATION CREEP AND STRESS RUPTURE OF HASTELLOY N 67-04 M16-68120
LONG-TERM RUPTURE STRENGTH OF ALLOYS AND PLASTICS FROM TENSILE STRENGTH AT ELEVATED TEMPERATURES
67-04 M17-66235
SUPPLEMENTAL REPORT ON THE ELEVATED-TEMPERATURE PROPERTIES OF CHROMIUM-MOLYBDENUM STEELS
67-04 M17-66289
INFLUENCE OF TI, ZR AND HF ON PROPERTIES OF MO-C ALLOYS 67-04 M17-66450
THE HEAT RESISTANCE OF WELDED JOINTS IN HIGH TEMPERATURE PEARLITIC STEEL 67-04 M17-66521
EXPERIMENTAL INVESTIGATION OF STRESS-RUPTURE STRENGTH OF CHROMIUM-NICKEL-TITANIUM STEEL IN CONDITIONS OF BIAXIAL EXTENSION
67-04 M17-66821
OXIDE DISPERSION-STRENGTHENED NIAL AND FEAL
67-04 M17-66933
CREEP PROPERTIES OF CR-NI-MO AUSTENITIC STEEL IN RELATION TO STRUCTURE 67-04 M17-66983
REDUCTION OF ADSORPTION CAPACITY BY STEEL SPECIMENS IN CONTACT WITH A MELT, AND THE ROLE OF GASEOUS IMPURITIES 67-04 M17-67048
BEHAVIOR OF STEELS AT HIGH PRESSURES AND TEMPERATURE FOR THE CHEMICAL INDUSTRY
67-04 M17-67212
CREEP RUPTURE PROPERTIES OF LARGE WELDED SPECIMENS
67-04 M17-67587
THE EFFECTS OF STABILIZING ANNEALING ON THE LONG TIME STRENGTH OF JOINTS IN KH18N10T STEEL
67-04 M17-67673
HIGH TEMPERATURE STEELS. PT. 4 67-04 M17-67720
SILICA FIBER REINFORCED ALUMINUM
67-04 M17-67736
EFFECT OF COLD WORKING ON THE RESISTANCE OF PEARLITIC STEEL TO PROLONGED EXPOSURE TO HIGH TEMPERATURES 67-04 M17-67970
THE HIGH-TEMPERATURE STRENGTH AND STRUCTURE OF THE AL-MGZN2 QUASIBINARY ALLOYS 67-05 M14-68882
INFLUENCE OF ATMOSPHERIC NITROGEN ON THE CREEP PROPERTIES OF CHROMIUM-TANTALUM ALLOYS
67-05 M17-68211
HEAT RESISTANCE OF CHROMIUM STEELS SUBJECTED TO PROLONGED TESTS 67-05 M17-68355
FATIGUE RESISTANCE OF THE KHN77TYUR ALLOY AND RESISTANCE TO PROLONGED EXPOSURE TO HIGH TEMPERATURES 67-05 M17-68361
PROLONGED RESISTANCE OF EI579 STEEL TO HIGH TEMPERATURES IN HYDROGEN 67-05 M17-68364
STRESS-RUPTURE PROPERTIES OF TUNGSTEN WIRE FROM 1200 TO 2500 F 67-05 M17-68398
STRESS/RUPTURE PROPERTIES OF A LARGE CAST-IRON COMPONENT 67-05 M17-68429
THE HIGH-TEMPERATURE STRENGTH AND STRUCTURE OF THE AL-ZN BINARY ALLOYS 67-05 M17-68881
GRAIN BOUNDARY RELAXATION IN FOUR HIGH-PURITY FCC METALS 67-06 M13-71607
HIGH TEMPERATURE ALLOYS FOR USE IN REFORMER FURNACES 67-06 M17-70528
THE RESEARCH BACKGROUND OF THE THERMALLOY GRADES OF CHROMIUM-NICKEL-IRON HEAT-RESISTING ALLOYS
67-06 M17-70529
RELATION BETWEEN CREEP-ELONGATION AND INTERGRANULAR CAVITIES IN STRESS-RUPTURE TESTING OF A CHROMIUM-NICKEL-MOLYBDENUM STEEL
67-06 M17-70828
CRACK FORMATION IN HYDROGEN-CHARGED STEEL TENSILE-TEST SPECIMENS 67-06 M17-70839
CREEP RUPTURE PROPERTIES OF A COMPLEX AUSTENITIC ALLOY IN THE PRE-STRAINED CONDITION
67-06 M17-70880
THE EFFECTS OF FRACTIONAL DEFORMATION DURING HEAT AND MECHANICAL TREATMENT ON HIGH-TEMPERATURE STRENGTH 67-06 M17-70923
IMPROVING THE STRENGTH OF CONTAINERS MADE OF THE VT15 TITANIUM ALLOY BY LOW-TEMPERATURE HEAT AND MECHANICAL TREATMENT 67-06 M17-70949
TUNGSTEN WIRE BOLSTERS POWDER 67-07 M09-74153
EQUALITY OF THE ACTIVATION ENERGIES OF LONG-TIME FAILURE, STEADY-STATE CREEP AND DISLOCATION CLIMB IN HIGH ALLOYS 67-07 M17-72591
RELATIONSHIPS OF DAMAGE LIABILITY IN AUSTENITIC STEEL AT HIGH TEMPERATURES 67-07 M17-73471
FRACTURE BEHAVIOUR OF TWO CREEP-RESISTANT MATERIALS SUBJECTED TO CYCLIC LOADING AT ELEVATED TEMPERATURE 67-07 M17-74086
INFLUENCE OF PHOSPHORUS ON PROPERTIES OF 45KH10G14YU2 STEEL 67-07 M17-74192
STRUCTURE AND PROPERTIES OF THE HEAT-RESISTANT ZHS TYPE NICKEL ALLOYS RESULTING FROM QUENCHING
67-08 M17-74965
ELEVATED TEMPERATURE STRENGTH OF TUBES AND PIPES FOR HIGH-TEMPERATURE SERVICES
67-08 M17-75808
INFLUENCE OF THE GRAIN SIZE AND THE NB/C RATIO ON THE PROPERTIES OF KH16N15 M3B STEEL
67-08 M17-76015
THE RESULTS OF JOINT CREEP RUPTURE TESTS ON WELDS OF HEAT RESISTANT STEELS 67-09 M11-78192
STABILITY OF PLASTIC AND FATIGUE PROPERTIES OF 1KH18N9T STAINLESS STEEL UNDER STATIC LOAD IN VACUUM AND IN LIQUID LITHIUM 67-09 M17-76426
THE CREEP-RUPTURE STRENGTH OF MOLYBDENUM COMPOSITE CAST WITH NIMONIC 90 ALLOY 67-09 M17-77263
THE STRESS-RUPTURE CHARACTERISTICS OF COPPER AND ALLOYS CONTAINING BORON AND HELIUM
67-09 M17-77464
EFFECT OF THE STABILIZATION RATIO ON THE CREEP AND PRECIPITATION BEHAVIOR OF AUSTENITIC STEELS WITH ABOUT 16 PER CENT CR, 13TO 16 PER CENT NI, 2 PER CENT MO AND NB 67-09 M17-77847
STRESS CORROSION DEVELOPED DURING THE CREEP OF A CRMOV STEEL AT 540 C. AND IN AIR
67-09 M18-76492
GUIDE TO SELECTION OF SUPERALLOYS
67-10 M01-78629
HOT TORSIONAL RUPTURE OF AUSTENITIC AND FERRITIC ALLOYS 67-10 M17-78678
THE RELATIONSHIP BETWEEN METAL STRENGTH AND THE DISORIENTATION OF MOSAIC BLOCKS AND CRYSTALLITE SIZE 67-10 M17-79228
EFFECT OF HYDROGEN ON THE CREEP RUPTURE PROPERTIES OF IRON 67-10 M17-79373
THE FRAGILIZATION OF NIOBIUM BY HYDROGEN AT AMBIENT TEMPERATURES AND THE EFFECT OF STRAIN HARDENING
67-10 M17-79872
MECHANICAL PROPERTIES OF 87/7/3/3 GUNMETAL WITH LEAD AND NICKEL ADDITIONS 67-10 M17-79935
INTEGRITY OF ATTACHMENT WELDS TO SUPERHEATER TUBING
67-11 M11-80281
HIGH-TEMPERATURE PROPERTIES OF STEELS--AN INTRODUCTION 67-11 M17-80251
A NEW FORMULA FOR THE EXTRAPOLATION OF CREEP TEST RESULTS--AN EXAMPLE OF ITS APPLICATION TO A CR-MO-V STEEL 67-11 M17-80253
THE CREEP PROPERTIES OF LOW-ALLOY CR-MO-V STEELS WITH LOW CARBON CONTENT 67-11 M17-80261
THE PRESENT POSITION IN GERMAN CREEP TESTS ON STANDARD CREEP-RESISTANT STEELS
67-11 M17-80262
HIGH-TEMPERATURE PROPERTIES OF 9 PER CENT CR-1 PER CENT MO STEEL 67-11 M17-80263
ELEVATED-TEMPERATURE TENSILE, CREEP, AND RUPTURE PROPERTIES OF VARIOUS CARBON STEELS
67-11 M17-80264
EFFECT OF MOLYBDENUM ON THE HIGH-TEMPERATURE RUPTURE STRENGTH OF CARBON STEEL
67-11 M17-80265

ELEVATED-TEMPERATURE TENSILE, CREEP, AND RUPTURE PROPERTIES OF 1 PER CENT CR-1/2 PER CENT MO, 2 1/4 PER CENT CR-1 PER CENT MO AND 1/2 PER CENT CR-1/2 PER CENT MO-1/4 PER CENT V STEELS
67-11 M17-80267
ELEVATED-TEMPERATURE TENSILE, CREEP, AND RUPTURE PROPERTIES OF 18 PER CENT CR-8 PER CENT NI, 18 PER CENT CR-12 PER CENT NI-MO, 18 PER CENT CR-10 PER CENT NI-TI, AND 18 PER CENT CR-12 PER CENT NI-NB STEELS 67-11 M17-80268
THE HIGH-TEMPERATURE PROPERTIES OF A MN-CR-MO-V NORMALIZED AND TEMPERED STEEL--DUCOL W30
67-11 M17-80270
12 PER CENT CR STEELS--CREEP-RESISTING AND HIGH-STRENGTH VARIANTS 67-11 M17-80273
PROPERTIES OF TWO HIGHLY ALLOYED MARTENSITIC STAINLESS STEELS AND A PRECIPITATION-HARDENED AUSTENITIC STAINLESS STEEL IN THE TEMPERATURE RANGE 500 TO 700 C 67-11 M17-80275
IMPROVED BOILER-PLATE STEELS 67-11 M17-80277
CREEP-RUPTURE DATA--TESTING AND APPLICATION FOR STRESS CONCENTRATION DESIGN CRITERIA
67-11 M17-80286
THE SHORT-TIME TENSILE AND LONG-TIME CREEP-RUPTURE PROPERTIES OF THE HF AND HH ALLOYS
67-11 M17-80682
EFFECT OF TITANIUM, ZIRCONIUM, AND HAFNIUM ON THE PROPERTIES OF MOLYBDENUM ALLOYED WITH CARBON
67-11 M17-80991
EFFECT OF LOWER BAINITE ON MECHANICAL STRENGTH AFTER TEMPERING 67-11 M17-81145
THE EFFECT OF UNIDIRECTIONAL SOLIDIFICATION ON THE PROPERTIES OF CAST NICKEL-BASE SUPERALLOYS
67-11 M17-81335
HIGH-TEMPERATURE STEELS IN STEAM TURBINES
67-11 M20-80283
PROBLEMS AND DEFICIENCIES ASSOCIATED WITH THE USE OF STEEL IN GAS TURBINE ENGINEERING
67-11 M20-80284
BOILER STEEL PROPERTY REQUIREMENTS
67-11 M20-80285
ELEVATED TEMPERATURE PROPERTIES OF NICKEL ALLOY STEELS 67-12 M17-81807
PROPERTIES OF AUSTENITIC CR-NI STEELS
67-12 M17-81838
IMPROVING CREEP PROPERTIES OF MOLYBDENUM BY POLYGONIZATION TREATMENT 67-12 M17-81842
INFLUENCE OF BORON, COPPER AND TIN ON THE HOT TORSIONAL DUCTILITY OF AN FE-NI ALLOY
67-12 M17-82283
FRACTURE OF COPPER ALLOYS TESTED IN MERCURY SALT SOLUTIONS 67-12 M17-82438
SHORT-TIME TENSILE AND LONG-TIME CREEP-RUPTURE PROPERTIES OF THE HK-40 ALLOY AND TYPE 310 STAINLESS STEEL AT TEMPERATURES TO 2000 F
67-12 M17-83240
THE THEORY OF NOTCH-BRITTLENESS IN STEELS OCCURRING DURING TIME-TO -RUPTURE TESTS
67-12 M17-83252
CAST ALLOY DEFIES FURNACE HEAT 67-12 M20-83481

CREEP RUPTURE STRENGTH, ALLOYING EFFECTS
SOME PROPERTIES OF WC-20 PER CENT CO AND WC-5 PER CENT TAC-20 PER CENT CO ALLOYS
67-02 M17-60151
PROSPECTS OF RAISING THE HIGH-TEMPERATURE STRENGTH OF MATERIALS ON THE BASIS OF REFRACTORY METALS
67-02 M17-62179
ON THE HIGH TEMPERATURE PROPERTIES AND THE MICROSTRUCTURES OF HIGH MANGANESE HEAT RESISTING 10M6N TYPE ALLOY 67-04 M17-67566
DEVELOPMENT OF IMPROVED WROUGHT ALLOYS FOR REFORMER TUBES 67-06 M17-70535
EFFECT OF MOLYBDENUM, TUNGSTEN AND COLUMBIUM ON THE RESISTING 20 PER CENT CO, 20 PER CENT CR, 20 PER CENT NI ALLOYS 67-07 M17-73028
INVESTIGATIONS OF THE STRESS-RUPTURE AND CREEP BEHAVIOR OF BINARY AND TERNARY VANADIUM ALLOYS
67-07 M17-73403
PROSPECTS OF RAISING THE HEAT RESISTANCE OF MATERIALS BASED ON REFRACTORY METALS
67-08 M17-75955
THE DELETERIOUS EFFECT OF SMALL QUANTITIES OF ALUMINUM ON THE STRESS-RUPTURE PROPERTIES OF A CR-MO-V STEEL 67-08 M17-75971
METALLOGRAPHIC STUDIES ON THE EFFECT OF MOLYBDENUM ON THE PRECIPITATION BEHAVIOR OF NICKEL-CHROMIUM AND NICKEL-CHROMIUM-COBALT ALLOYS WITH HIGH STRENGTH AT ELEVATED TEMPERATURES
67-09 M10-77850
THE INFLUENCE OF NITROGEN AND CERTAIN OTHER ELEMENTS ON THE CREEP-RUPTURE PROPERTIES OF WHOLLY AUSTENITIC TYPE 204 STEEL
67-12 M17-83247

CREEP RUPTURE STRENGTH, COMPOSITION EFFECTS
THE EFFECT OF NITROGEN ON THE TENSILE AND CREEP-RUPTURE PROPERTIES OF NIOBIUM
67-01 M17-58459
EFFECT OF NITROGEN ON THE STRUCTURE AND PROPERTIES OF AUSTENITIC CHROMIUM-MANGANESE AND CHROMIUM-MANGANESE-NICKEL STEELS 67-02 M17-59057
THE PROPERTIES OF CAST 25 PER CENT CHROMIUM-20 PER CENT NICKEL AUSTENITIC STEELS IN RELATION TO THEIR USE AT ELEVATED TEMPERATURES
67-06 M17-70531
INTRODUCTION TO THE METALLURGY OF CAST HEAT-RESISTING ALLOYS 67-06 M17-70534
DEVELOPMENT OF NIOBIUM-ZIRCONIUM-CARBON ALLOYS
67-06 M17-71057

CREEP RUPTURE STRENGTH, COOLING EFFECTS
STUDY OF THE MECHANICAL AND THERMAL PROPERTIES OF URANIUM ALLOYS WITH SMALL ADDITIONS
67-12 M17-83503

CREEP RUPTURE STRENGTH, CRYSTAL DEFECTS
MULTIPROCESS CREEP IN URANIUM DEDUCED FROM LITERATURE DATA 67-01 M17-58471

CREEP RUPTURE STRENGTH, GRAIN SIZE
GRAIN SIZE DEPENDENCE OF EMBRITTLING PHENOMENON OF BRASS DURING ANNEALING 67-06 M17-70784

CREEP RUPTURE STRENGTH, HEATING EFFECTS
CHANGES IN THE HIGH-TEMPERATURE STRENGTH OF 18CR9NI STEEL AFTER CYCLE HEAT TREATMENT
67-02 M17-60297
THE EFFECT OF TWO-STEP SOLUTION TREATMENT ON THE CREEP RUPTURE PROPERTIES OF A HIGH-CARBON 18CR-12NI STAINLESS STEEL 67-05 M17-69858
EFFECT OF THERMAL HARDENING CONDITIONS ON THE HEAT RESISTANT PROPERTIES OF KH18N10T STEEL
67-08 M17-74588
EFFECT OF STRESS RELIEVING ON THE HIGH-TEMPERATURE RUPTURE STRENGTH OF CARBON STEELS
67-11 M17-80266
THE HIGH-TEMPERATURE PROPERTIES OF AN ADVANCED AUSTENITIC STEEL--ESSHETE 1250
67-11 M17-80276
SOME EFFECTS OF HEAT TREATMENT AND WELDING ON THE RUPTURE PROPERTIES OF THREE AUSTENITIC STEELS
67-11 M17-80278

CREEP RUPTURE STRENGTH, IMPURITY EFFECTS
EFFECT OF ARSENIC ON THE STRESS-RUPTURE STRENGTH OF MST. 3 MILD STEEL AT 723 K
67-02 M17-59686

CREEP RUPTURE STRENGTH, RADIATION EFFECTS
RADIATION EFFECTS ON CREEP RUPTURE AND FATIGUE STRENGTH OF PURE ALUMINUM 67-07 M17-72685
EFFECTS OF IRRADIATION IN AUSTENITIC STEELS AND OTHER HIGH-TEMPERATURE ALLOYS
67-07 M17-73384
THE FLOW AND FRACTURE PROPERTIES OF UNIRRADIATED STAINLESS STEELS 67-07 M17-73385
IN-REACTOR STRESS-RUPTURE PROPERTIES OF A 20CR-25NI, COLUMBIUM-STABILIZED STEEL
67-07 M17-73388

CREEP RUPTURE STRENGTH, SIZE EFFECTS
THE EFFECT OF GRAIN SIZE ON THE CREEP STRENGTH OF ARMCO IRON MICROSPECIMENS 67-12 M17-82188

CREEP RUPTURE STRENGTH, STRESS EFFECTS
LOW-CYCLE FATIGUE OF LARGE-DIAMETER BOLTS
67-05 M17-69701
THE IMPORTANCE OF INTERNAL STRESS IN GRAY OR SPHEROIDAL CAST IRON 67-12 M17-82897

CREEP RUPTURE STRENGTH, TEMPERATURE EFFECTS
HIGH-TEMPERATURE STRENGTH AND STRUCTURAL CHANGE OF TYPE 316 AUSTENITE STAINLESS STEEL CASTINGS
67-02 M17-59156
CREEP-RUPTURE PROPERTIES OF CENTRIFUGALLY CAST 1 1/4CR-1/2MO ALLOY STEEL PIPE
67-04 M17-66234
CREEP AND TENSILE PROPERTIES OF HEAVILY DRAWN TUNGSTEN WIRE 67-04 M17-66926
ON THE MECHANICAL PROPERTIES OF DISPERSION STRENGTHENED CU-AL2O3 ALLOYS 67-04 M17-67570
CREEP AND RUPTURE DATA FOR DOMESTIC MATERIALS
67-04 M17-67597
CREEP-RUPTURE PROPERTIES OF SOME FERRITIC AND AUSTENITIC STEELS 67-04 M17-67598
THE PROBLEM OF THE CREEP OF METALS. PT. 19. MORE INFORMATION ON HIGH TEMPERATURE RUPTURE STRENGTH PROPERTIES 67-05 M17-69429

CREEP RUPTURE STRENGTH

HIGH-TEMPERATURE CREEP IN NICKEL, COPPER AND THEIR ALLOYS 67-06 M17-69981
CREEP RUPTURE AND DYNAMIC STRENGTH TESTS OF TI ALLOYS TIALV4, TIAL6V4 AND TIAL9V3 AT TEMPERATURES OF 350 TO 500 C 67-08 M17-75324
HIGH-TEMPERATURE MECHANICAL PROPERTIES OF TI-8 PER CENT AL-4 PER CENT CO ALLOY 67-09 M17-77988

CREEP STRENGTH

THE EFFECT OF SURFACE OXIDATION ON THE PROCESS OF CREEP 67-01 M17-57148
DISCUSSION OF EFFECTS OF GRAIN SIZE ON TENSILE AND CREEP PROPERTIES OF ARC-MELTED AND ELECTRON BEAM-MELTED TUNGSTEN AT 2250 TO 4140 F 67-02 M17-59444
INVESTIGATION OF THE HEAT RESISTANCE OF AT3 TITANIUM ALLOY AFTER CONVENTIONAL HEAT TREATMENT AND AFTER AUSFORMING 67-02 M17-59642
EFFECT OF CARBURIZATION ON THE SHORT-TIME STRENGTH OF TUNGSTEN, MOLYBDENUM AND TANTALUM AT HIGH TEMPERATURES 67-02 M17-59872
ELEMENTARY CONSIDERATIONS FOR STRUCTURAL USE 67-02 M17-60709
CREEP OF METALS BY THE COMBINED STATE OF STRESS 67-02 M17-60801
DETERMINING THE THERMAL PLASTICITY OF STEEL DURING CYCLIC TENSILE TESTING FOLLOWED BY STRESS RELAXATION 67-03 M17-65072
A METHOD FOR TESTING TUBES FOR CREEP STRENGTH 67-03 M17-65074
CREEP BEHAVIOUR OF NIMONIC AND R. R. 59 ALLOYS 67-03 M17-65173
CREEP EXPERIMENTS ON HIGH-PURITY COPPER SINGLE CRYSTALS 67-03 M17-65226
EFFECT OF ORDERING ON HIGH-TEMPERATURE CREEP OF FE-AL ALLOYS 67-03 M17-65790
METALLURGICAL PROCESSES IN THE SOLDERING OF CU AND THE STRENGTH BEHAVIOR OF SOLDERED JOINTS 67-04 M11-67077
PHYSICAL-CHEMICAL THEORY OF CREEP RESISTANCE OF REFRACTORY METALS AND THEIR ALLOYS 67-04 M13-66442
VARIABLE STRESS CREEP IN COPPER 67-04 M17-66065
SUPERHEATING PIPES TESTED AFTER OPERATION FOR 100,000 HR 67-04 M17-67131
HEAT RESISTANCE OF CHROMIUM STEELS SUBJECTED TO PROLONGED TESTS 67-05 M17-68355
PREDICTION OF BALL-SPIN AND INTERFACIAL SLIP FRICTION FROM ROOM TO 2500 F 67-05 M17-68943
THE PRODUCTION OF CITY GAS BY THE OXIDIZING CATALYTIC CRACKING OF PETROLEUM HYDROCARBONS 67-05 M17-69353
NITRIDE PHASE IN SILICON-KILLED CARBON STEELS 67-06 M14-71336
RESULTS OF CREEP TESTS ON HIGH-TEMPERATURE AUSTENITIC STEELS 67-06 M17-70082
INFLUENCE OF A CERAMIC ENVIRONMENT ON THE CREEP PROPERTIES OF CHROMIUM ALLOYS 67-06 M17-70800
NICKLE-AND COBALT-BASE ALLOYS 67-07 M01-74253
METALLURGICAL PROBLEMS IN STEAM REFORMING PLANT 67-07 M01-74266
DETERMINATION OF THE THERMAL PLASTICITY OF STEEL BY A TEST WITH CYCLIC TENSION FOLLOWED BY STRESS RELAXATION 67-07 M17-72972
A METHOD FOR TESTING TUBES FOR LONG-TERM STRENGTH 67-07 M17-72973
PLASTICITY LAWS IN CREEP OF POLYCRYSTALLINE METALLIC MATERIALS AT ELEVATED TEMPERATURES 67-07 M17-72978
STUDIES ON THE MECHANICAL PROPERTIES OF HOT EXTRUDED BERYLLIUM AT ELEVATED TEMPERATURES 67-07 M17-72984
EFFECT OF STATE OF STRESS ON THE CREEP BEHAVIOR OF LEAD AND LEAD ALLOY TUBES 67-07 M17-73709
SPECIAL STEELS FOR HIGH-TEMPERATURE SERVICE 67-07 M17-74270
A HEAT RESISTANT STEEL 67-08 M01-74870
DEFORMATION OF THE ROTOR WINDING OF A TURBO ALTERNATOR. AN EXTREME EXAMPLE OF COPPER SHORTENING 67-08 M17-74501
DETERMINING THE LONG-TERM STRENGTH OF THREADED TEST BARS OF PEARLITE STEEL 67-08 M17-74534
RESEARCH INTO THE RHEOLOGICAL PROPERTIES OF CLASS A-IV HOT ROLLED REINFORCEMENT STEEL 67-08 M17-74896
INCREASE OF THE CREEP RESISTANCE OF MARTENSITIC-FERRITIC STEEL BY THERMOMECHANICAL TREATMENT 67-08 M17-74963
A HIGH-TEMPERATURE IRON-BASE CASTING ALLOY 67-08 M17-75457
A NEW CREEP RESISTANT ZINC DIE CASTING ALLOY 67-08 M17-75494
CREEP PROPERTIES OF REFRACTORY METAL ALLOYS IN ULTRAHIGH VACUUM 67-08 M17-76145
METALLURGICAL FACTORS AFFECTING PROPERTIES OF HEAT RESISTANT STEELS 67-09 M04-76813
INFLUENCE OF LITHIUM ON MECHANICAL PROPERTIES OF ARMCO IRON 67-09 M17-76427
DISPERSION STRENGTHENED LEAD--PROPERTIES AND POTENTIALITIES IN CHEMICAL PLANT AND SOME EARLY FIELD TRIALS 67-09 M17-76603
EFFECTS OF THE PRELIMINARY DEFORMATION TEMPERATURE ON THE STRUCTURE OF NICKEL AND ITS RESISTANCE TO CREEP 67-09 M17-76981
EFFECT OF STRAIN CONDITIONS ON SOFTENING AND HEAT RESISTANCE OF NICKEL 67-09 M17-77291
X-RAY INVESTIGATION OF THE EARLY STAGE OF CREEP 67-10 M17-78379
THE EFFECT OF OXYGEN AND CARBON ON THE CREEP STRENGTH OF NIOBIUM 67-10 M17-78449
RESEARCH INTO THE MECHANISM BY WHICH CLAD STEEL PLATE RUPTURES DURING DEFORMATION AT HIGH TEMPERATURES 67-10 M17-78934
EFFECTS OF POLYGONIZATION ON THE HIGH-TEMPERATURE STRENGTH PROPERTIES OF MOLYBDENUM 67-10 M17-78966
EFFECTS OF HIGH-TEMPERATURE HEAT AND MECHANICAL TREATMENT, WITH LOW DEFORMATION RATES, ON THE HIGH-TEMPERATURE STRENGTH OF KHN77TYUR ALLOY 67-10 M17-78968
EFFECTS OF FLUCTUATIONS IN THE TEMPERATURE ON THE CREEP RESISTANCE OF 15 123 STEEL 67-10 M17-79743
CREEP AND FATIGUE STRENGTH OF QUENCHED AND TEMPERED TYPE M-2 AND TYPE H-13 STEELS IN TEMPERATURE RANGE OF 300 TO 550 C 67-10 M17-79994
N2-ALLOYED HEAT AND SCALING-RESISTANT STEEL CASTINGS. PT. 2 67-11 M01-81545
PROPERTIES OF A NEW 2 PER CENT CR-MO-V-AL NITRIDING CREEP-RESISTING STEEL - HK 5 67-11 M17-80274
SOME MECHANICAL PROPERTIES OF BORON-TUNGSTEN BORIDE FILAMENTS 67-11 M17-80315
PHYSICOCHEMICAL THEORY OF THE HEAT RESISTANCE OF REFRACTORY METALS AND ALLOYS 67-11 M17-80983
STRESS-RELIEF CRACKING IN CARBON AND LOW-ALLOY STEELS 67-11 M17-81003
CREEP TESTS ON MELT AND RECRYSTALLIZATION SINGLE CRYSTALS OF ZN 67-11 M17-81028
TENSILE AND CREEP PROPERTIES OF SINGLE CRYSTALS OF THE NICKEL-BASE SUPERALLOY MAR-M200 67-11 M17-81344
TORSION STUDY OF CREEP IN NIOBIUM ALLOYS 67-11 M17-81422
CREEP OF ALLOYS OF THE NICKEL-COPPER SYSTEM AT DIFFERENT TEMPERATURE AND STRESSES 67-11 M17-81423
RELATION BETWEEN THE DIFFUSION AND CREEP PROPERTIES OF METAL COMPOUNDS 67-11 M17-81424
VELOCITY KINETICS OF FRACTURE CENTERS IN NICKEL ALLOYS DURING CREEP 67-11 M17-81425
INFLUENCE OF MULTIPLE THERMOMECHANICAL TREATMENT ON MECHANICAL PROPERTIES OF LOW CARBON STEEL 67-12 M10-83524
STRUCTURAL CHANGES DURING CREEP OF AN AUSTENITIC ALLOY 67-12 M13-82347
STUDY OF CARBIDE TRANSFORMATIONS DURING HEAT RESISTANCE TESTING OF 12KH1MF AND 15KH1M1F STEELS 67-12 M14-82345
THE PRINCIPLE OF HEAT RESISTANT ALLOYING 67-12 M17-81832
CREEP DETERMINATIONS ON TI-AL-V ALLOYS BY BENDING AT ELEVATED TEMPERATURES 67-12 M17-82163
TEMPERATURE-TIME DEPENDENCE OF THE STRENGTH OF METALS AND ALLOYS IN DISEQUILIBRIUM STATE. PT. 2. ALLOYS 67-12 M17-82340
ELASTIC DEFORMATION OF LATTICE UNDER CREEP CONDITIONS 67-12 M17-82350
FLOW AND FRACTURE IN METALS 67-12 M17-82661
MECHANICAL PROPERTIES AT ELEVATED TEMPERATURES OF SEAMLESS CARBON STEEL TUBING 67-12 M17-83337
CREEP AND SAG PROPERTIES OF A PORCELAIN-GOLD ALLOY 67-12 M20-82358

CREEP STRENGTH, ALLOYING EFFECTS

EFFECT OF ALLOYING ON THE MECHANISM OF STEADY CREEP OF NICKEL 67-06 M17-71134
THE CREEP AND FRACTURE PROPERTIES OF SOME NICKEL-

CHROMIUM ALLOYS AT 600 C 67-07 M17-72816
EFFECTS OF STRESS CHANGES ON CREEP RESISTANCE OF FE-MN-N ALLOYS 67-08 M17-75817
CREEP OF TITANIUM ALLOYS 67-09 M17-78161
EFFECT OF BORON ON THE PROPERTIES OF 45KH10G14YU2 STEEL 67-10 M17-78435
INTERGRANULAR DIFFUSION OF IRON IN AUSTENITIC STEELS CONTAINING BORON 67-12 M14-82592
THE INFLUENCE OF ZIRCONIUM ON DYNAMIC STRENGTHENING OF NIOBIUM ALLOYS 67-12 M17-81826
INFLUENCE OF NITROGEN ON THE PROPERTIES OF AUSTENITIC CR-NI AND CR-NI-MO---CU-- STEELS 67-12 M17-83289
EFFECT OF BORON ON PROPERTIES OF 45KH10G14YU2 STEEL 67-12 M17-83433

CREEP STRENGTH, COMPOSITION EFFECTS
CREEP BEHAVIOR OF TWO CHROMIUM-NICKEL-STEELS WITH 15 PER CENT CR, 35 PER CENT NI, AND VARIABLE CARBON CONTENT 67-02 M17-59088

CREEP STRENGTH, DIFFUSION EFFECTS
THE IMPORTANCE OF DIFFUSION PROCESSES IN THE CREEP OF NICKEL UNDER DIFFERENT STRESSES 67-06 M17-71103

CREEP STRENGTH, HEATING EFFECTS
CREEP OF ALUMINUM WITH FINELY LINED LAYER PHASE OF ALUMINUM OXIDE 67-02 M17-59746
INFLUENCE OF DIFFERENT HEAT TREATMENTS ON THE CREEP PROPERTIES OF A HIGH-TEMPERATURE CHROMIUM-NICKEL ALLOY WITH AN ADDITION OF MOLYBDENUM 67-02 M17-60655
RECENT ADVANCES IN HEAT TREATMENT METHODS 67-08 M10-74748
THE IMPORTANCE OF THE HEAT TREATMENT OF THE AUSTENITIC RANGE 67-08 M10-76163
THE EFFECT OF PREANNEALING ON THE HIGH-TEMPERATURE STRENGTH OF NICKEL AFTER THERMOMECHANICAL TREATMENT 67-12 M17-82344

CREEP STRENGTH, IMPURITY EFFECTS
MICROANALYZER STUDY OF INCLUSIONS IN BERYLLIUM AND THEIR RELATION TO THE PROPERTIES OF SEMIFINISHED BERYLLIUM PRODUCTS 67-03 M17-65286
THE EFFECT OF NONMETALLIC INCLUSIONS ON CERTAIN MATERIAL PROPERTIES OF STEEL 67-07 M17-73194

CREEP STRENGTH, MATHEMATICAL ANALYSIS
AN EVALUATION OF VARIOUS EQUATIONS FOR EXPRESSING FIRST-STAGE CREEP BEHAVIOR 67-02 M17-59438

CREEP STRENGTH, RADIATION EFFECTS
INFLUENCE OF NEUTRON IRRADIATION ON THE CREEP OF ZIRCALOY-2 AT 300 C 67-02 M17-59028
IN-REACTOR CREEP OF COLD-WORKED ZIRCALOY-2 67-07 M17-73395

CREEP STRENGTH, STRESS EFFECTS
RELATIONSHIP BETWEEN THE TORSION OR BENDING CREEP STRENGTH AND THE TENSION CREEP STRENGTH OF 13 PER CENT CR STEEL 67-04 M17-66894
THE EFFECT OF THE SURFACE LAYER STRESS ON TRANSIENT CREEP OF POLYCRYSTALLINE ALUMINUM 67-12 M17-83049

CREEP STRENGTH, TEMPERATURE EFFECTS
THE TEMPERATURE DEPENDENCE OF STRESS RELAXATION CRITERIA IN THE ALLOY EI437B 67-02 M17-59886
RELATIONSHIP BETWEEN STEADY-STATE CREEP RATE AND MAGNETIC TRANSFORMATION TEMPERATURE IN FERRITIC FERRITIC IRON-CHROMIUM ALLOYS 67-02 M17-59981
TEMPERATURE DEPENDENCE OF THE MECHANICAL PROPERTIES, MICROSTRUCTURE AND STACKING FAULT ENERGY OF AN ARSENIC-CONTAINING ALUMINUM BRONZE OF THE CUAL15-TYPE 67-05 M17-69586
ELEVATED-TEMPERATURE FATIGUE OF TZC MOLYBDENUM ALLOY UNDER HIGH-FREQUENCY AND HIGH-VACUUM CONDITIONS 67-12 M17-83062

CREEP TESTS
A CONSTANT-STRESS, VACUUM CREEP-TESTING APPARATUS 67-01 M17-57544
CREEP DUCTILITY AND DIMENSIONAL INSTABILITY OF NICKEL AT 500 AND 525 C 67-01 M17-58458
APPARATUS FOR PRODUCING RAPID TEMPERATURE CHANGES DURING MECHANICAL BEHAVIOR TESTS 67-01 M17-58769
CREEP BEHAVIOR OF TWO CHROMIUM-NICKEL-STEELS WITH 15 PER CENT CR, 35 PER CENT NI, AND VARIABLE CARBON CONTENT 67-02 M17-59088
CENTRIFUGAL MACHINE SPEEDS CREEP TESTING 67-02 M17-59459
CREEP OF ALUMINUM WITH FINELY LINED LAYER PHASE OF ALUMINUM OXIDE 67-02 M17-59746
THE TEMPERATURE DEPENDENCE OF STRESS RELAXATION CRITERIA IN THE ALLOY EI437B 67-02 M17-59886
RELATIONSHIP BETWEEN STEADY-STATE CREEP RATE AND MAGNETIC TRANSFORMATION TEMPERATURE IN FERRITIC FERRITIC IRON-CHROMIUM ALLOYS 67-02 M17-59981
THE CREEP TESTING OF METALS 67-02 M17-61537
THE CREEP TESTING OF METALS 67-02 M17-61600
MICROSCOPIC OBSERVATIONS OF PRECIPITATES IN SOME LOW-ALLOY STEELS AFTER CREEP TESTING 67-03 M13-65820
CREEP-RUPTURE PROPERTIES UNDER CONDITIONS OF CONSTANT AND VARYING STRESSES 67-03 M17-65017
DETERMINING RELAXATION RESISTANCE OF METALS FROM CREEP TEST RESULTS 67-03 M17-65070
METHOD FOR DETERMINING CREEP INDEXES IN RELAXATION TESTING 67-03 M17-65073
A METHOD FOR TESTING TUBES FOR CREEP STRENGTH 67-03 M17-65074
TECHNIQUES FOR ANALYZING COMBINED FIRST-AND SECOND-STAGE CREEP DATA 67-03 M17-65095
CREEP BEHAVIOUR OF NIMONIC AND R. R. 59 ALLOYS 67-03 M17-65173
CONTRIBUTION TO THE STUDY OF HIGH-TEMPERATURE CREEP IN POLYCRYSTALLINE BERYLLIUM 67-03 M17-65277
BRITTLE FRACTURE OF FULL SCALE STRUCTURES DAMAGED BY FATIGUE 67-03 M17-65309
DETERMINING THE CREEP STRENGTH OF PEARLITIC STEEL THREADED SPECIMENS 67-03 M17-65609
EFFECT OF ORDERING ON HIGH-TEMPERATURE CREEP OF FE-AL ALLOYS 67-03 M17-65790
A MECHANISM FOR LOWERING THE CREEP STRENGTH OF METAL IN A SURFACE-ACTIVE LIQUID-METALLIC MEDIUM 67-03 M17-65799
THE EFFECT OF MOLYBDENUM ON THE HEAT RESISTANCE OF CR-MOV STEELS WITH A LOW CARBON CONTENT 67-04 M15-66020
VARIATION IN SURFACE ENERGY AS A FUNCTION OF THE CRYSTALLOGRAPHIC ORIENTATION IN SILICON IRON SINGLE CRYSTALS 67-04 M16-67656
INFLUENCE OF TI, ZR AND HF ON PROPERTIES OF MO-C ALLOYS 67-04 M17-66450
X-RAY ANALYSIS OF THE SUBSTRUCTURE OF ALUMINUM DURING CREEP 67-04 M17-66488
VARIATION OF PHASE COMPOSITION AND PROPERTIES OF 1KH14N14V2M AUSTENTIC STEEL DURING CREEP 67-04 M17-66844
SUPERHEATING PIPES TESTED AFTER OPERATION FOR 100,000 HR 67-04 M17-67131
PROBLEM OF DETERMINING THE WORKING CYCLES OF STEEL IN CONDITIONS OF LOAD AT HIGH TEMPERATURES 67-04 M17-67136
BEHAVIOR OF STEELS AT HIGH PRESSURES AND TEMPERATURE FOR THE CHEMICAL INDUSTRY 67-04 M17-67212
ON THE HIGH-TEMPERATURE STRENGTH OF 0.35 PER CENT CARBON STEEL 67-04 M17-67595
ON THE LOCALIZATION OF STRAIN IN HIGH-TEMPERATURE CREEP 67-04 M17-67927
DEVELOPMENT OF CAVITIES IN CREEP 67-05 M17-68857
TENDENCIES IN THE GENERAL DEVELOPMENT OF STATIC AND DYNAMIC TESTING MACHINES 67-05 M17-69197
APPARATUS CONSIDERATIONS IN CREEP TESTING 67-05 M17-69198
LONG-TERM STRENGTH IN CONDITIONS OF STRESS RELAXATION 67-05 M17-69613
CONCENTRATION DEPENDENCE OF THE LINEAR CREEP LIMIT OF CU-NI ALLOYS 67-05 M17-69667
HIGH-TEMPERATURE CREEP IN NICKEL, COPPER AND THEIR ALLOYS 67-06 M17-69981
ON THE SELECTION OF ALLOYING ELEMENTS FOR THE PRODUCTION OF TITANIUM-BASE HEAT RESISTANT ALLOYS 67-06 M17-69990
RESULTS OF CREEP TESTS ON HIGH-TEMPERATURE AUSTENITIC STEELS 67-06 M17-70082
REDUCED SERVICE LIFE OF STRUCTURAL BOILER PARTS WHEN PERMISSIBLE OPERATING TEMPERATURES ARE EXCEEDED 67-06 M17-70083
EFFECTS OF COARSE-AND FINE-GRAINED STRUCTURES ON THE HIGH-TEMPERATURE STRENGTH OF THE D20 WROUGHT ALUMINUM ALLOY 67-06 M17-70381
HIGH TEMPERATURE CREEP STUDIES ON AUSTENITIC STAINLESS STEELS IN VACUUM 67-06 M17-70560
HIGH-TEMPERATURE CREEP OF AL2O3 CERAMICS 67-06 M17-70565
RELATION BETWEEN CREEP-ELONGATION AND INTERGRANULAR CAVITIES IN STRESS-RUPTURE TESTING OF A

CREEP TESTS
CHROMIUM-NICKEL-MOLYBDENUM STEEL
67-06 M17-70828
THE EFFECTS OF FRACTIONAL DEFORMATION DURING HEAT AND MECHANICAL TREATMENT ON HIGH-TEMPERATURE STRENGTH 67-06 M17-70923
THE EFFECT OF SUPERIMPOSED FATIGUE ON THE CREEP BEHAVIOR OF THE NICKEL-BASE ALLOY UDIMET 700
67-06 M17-71082
THE IMPORTANCE OF DIFFUSION PROCESSES IN THE CREEP OF NICKEL UNDER DIFFERENT STRESSES
67-06 M17-71103
THE EFFECTS OF BORON ON THE PROPERTIES OF AUSTENITIC STEELS 67-06 M17-71133
EFFECT OF ALLOYING ON THE MECHANISM OF STEADY CREEP OF NICKEL 67-06 M17-71134
RELATION OF STRESS RELAXATION AND CREEP PHENOMENA IN METALS 67-06 M17-71135
STUDY OF CREEP AND STRESS RELAXATION OF HIGH STRENGTH NONMAGNETIC MATERIALS
67-06 M17-71370
EFFECT OF TEMPERATURE AND DEGREE OF DEFORMATION ON HEAT RESISTANCE OF NICKEL DURING THERMOMECHANICAL TREATMENT 67-06 M17-72346
INFLUENCE OF THERMAL HARDENING ON STRUCTURE AND PROPERTIES OF HEAT RESISTANT ALLOYS
67-06 M17-72347
EFFECT OF LONG-TIME ANNEALING TREATMENTS IN THE TEMPERATURE RANGE OF 550 TO 700 C. C. ON THE FORMATION OF STRUCTURE AND ON THE LONG-TIME BEHAVIOR OF A STEEL WITH 0.15 PER CENT C AND 0.5 PER CENT MO 67-07 M17-72479
MEASUREMENT OF THE MECHANICAL PROPERTIES OF SOLIDS AT HIGH PRESSURE 67-07 M17-72808
METHOD OF DETERMINING THE CREEP INDEX IN RELAXATION TESTS 67-07 M17-72969
ESTIMATE OF THE RELAXATION RESISTANCE OF METALS FROM THE RESULTS OF CREEP TESTS
67-07 M17-72970
A METHOD FOR TESTING TUBES FOR LONG-TERM STRENGTH
67-07 M17-72973
TRANSMISSION ELECTRON MICROSCOPIC OBSERVATION OF LOW CARBON STEELS DURING CREEP
67-07 M17-72982
CREEP STRENGTH OF ZINC IN PRESENCE OF MERCURY AND GALLIUM 67-07 M17-73164
CREEP STRENGTH OF 40KH STEEL AT COMPLEX STRESS STATE IN PB-SN EUTECTIC 67-07 M17-73165
ACCELERATED CREEP IN METAL SINGLE CRYSTALS CAUSED BY ELECTRIC CHARGING OF THEIR SURFACE
67-07 M17-73172
TIME-DEPENDENT CREEP AND SIMULTANEOUS STRUCTURAL CHANGES IN HEAT RESISTANT STEELS
67-08 M17-75697
DETAILED DESCRIPTION OF A METHOD OF EXTRAPOLATING THE RUPTURE TIME OF AN INDUSTRIAL ALLOY
67-08 M17-76213
STRUCTURE AND PROPERTIES OF AT6 TI ALLOY AS AFFECTED BY STRESSES 67-08 M17-76248
A MODEL SYSTEM TO SIMULATE CREEP OF COMPOSITES
67-08 M17-76257
STUDY OF INTERGRANULAR CAVITATION IN IRON BY ELECTRON MICROSCOPY OF FRACTURE SURFACES
67-09 M13-77933
STRUCTURAL CHANGES AND THEIR EFFECT ON THE CREEP RUPTURE STRENGTH OF CHROMIUM-MOLYBDENUM STEEL
67-09 M17-77196
PLASTICITY CRITERIA FOR METALS AT ELEVATED TEMPERATURES 67-09 M17-77415
THE PROBLEM OF THE CREEP OF METALS. PT. 20. CREEP AND RUPTURE TESTING MACHINES 67-09 M17-77554
CREEP IN ROTATING DISKS IN TRANSIENT PERIOD
67-09 M17-77573
STRESS CORROSION DEVELOPED DURING THE CREEP OF A CRMOV STEEL AT 540 C. AND IN AIR
67-09 M18-76492
THE CREEP STRENGTH OF MATERIALS, AND HOW IT IS AFFECTED BY CORROSION 67-10 M17-79094
ON THE ANALYSIS OF CREEP TESTS USING HELICAL SPRING SPECIMENS 67-10 M17-79338
MEASURING CREEP IN TRANSMISSION LINES
67-10 M17-79496
THE DUCTILITY OF NICKEL-CHROMIUM ALLOYS DURING PROLONGED USE 67-10 M17-79660
CHANGE IN THE DISLOCATION STRUCTURE OF SILICON IRON DURING CREEP 67-11 M13-80721
CZECHOSLOVAK PRACTICE IN CREEP-TESTING TECHNIQUES AND DATA ANALYSIS --1966-- 67-11 M17-80252
INTERNATIONAL COMMUNITY TESTS ON LONG-TERM BEHAVIOUR OF 2 1/4 PER CENT CR-1 PER CENT MO STEEL 67-11 M17-80254
STANDARDIZATION OF THE CREEP-TESTING MACHINE
67-11 M17-80255
SOME OBSERVATIONS ON THE REPRODUCIBILITY OF CREEP RATE DETERMINATIONS 67-11 M17-80256
THE DETERMINATION OF THE ELEVATED-TEMPERATURE PROPERTIES OF STEEL 67-11 M17-80257
THE CREEP PROPERTIES OF LOW-ALLOY CR-MO-V STEELS WITH LOW CARBON CONTENT 67-11 M17-80261
THE PRESENT POSITION IN GERMAN CREEP TESTS ON STANDARD CREEP-RESISTANT STEELS
67-11 M17-80262
SOME CREEP AND RUPTURE PROPERTIES OF A FORGED LOW-ALLOY MN-CR-MO-V STEEL 67-11 M17-80272
THE SIGNIFICANCE OF 1 PER CENT CREEP DATA
67-11 M17-80287
HIGH-TEMPERATURE PROPERTIES OF STEELS
67-11 M17-80288
CREEP APPARATUS FOR MEASUREMENTS AT LOW TEMPERATURES 67-11 M17-80383
SELECTED MECHANICAL PROPERTIES OF CLADDING AND STRUCTURAL MATERIALS 67-11 M17-80474
EFFECT OF TITANIUM, ZIRCONIUM, AND HAFNIUM ON THE PROPERTIES OF MOLYBDENUM ALLOYED WITH CARBON
67-11 M17-80991
THE MECHANISMS OF TERTIARY CREEP IN FACE CENTERED CUBIC METALS 67-11 M17-81267
KINETICS OF STRUCTURAL TRANSFORMATIONS AND FAILURE OF HEAT RESISTANT ALLOYS AT CREEP
67-12 M17-81833
SHORT DURATION CREEP AND RELAXATION OF HIGH-TEMPERATURE ALLOYS 67-12 M17-82158
CONSTANT-LOAD CREEP DATA INTERPRETED IN TERMS OF THE STRESS DEPENDENCE OF DISLOCATION VELOCITY
67-12 M17-82961
INFLUENCE OF A CONSTANT STRESS ON THE MECHANICAL CHARACTERISTICS OF DRAWN BARS
67-12 M17-83515
CREEP TESTS, IMPURITY EFFECTS
PORE FORMATION DURING CREEP 67-02 M14-62087
CREEPING
SEE CREEP /MATERIALS/
CREVICES
SEE CRACKS
CRIMPING
SEE FOLDING
CRITICAL TEMPERATURE
EFFECT OF HEATING RATE ON THE ELEVATION OF THE CRITICAL TEMPERATURES OF LOW-CARBON MILD STEEL
67-04 M14-67193
THE FE-C DIAGRAM--INFLUENCE OF SI AND P
67-10 M13-79691
CRONING PROCESS
SEE SHELL MOLD CASTING
CROSS EXTRUSION
SEE METAL WORKING
CROSS ROLLING
STUDY OF SHEET METAL MADE BY LONGITUDINAL AND CROSS ROLLING FOR THE PRODUCTION OF LARGE-DIAMETER ELECTROWELDED PIPE 67-02 M07-61946
EFFECT OF ROLLING PLAN ON QUALITY OF HEAVY-GAGE STEEL AND MILL PRODUCTIVITY 67-02 M07-61947
EFFECT OF ROLLING SCHEDULE ON QUALITY OF THICK PLATE STEEL AND MILL OUTPUT 67-04 M07-67778
STUDY OF METAL IN LONGITUDINAL AND TRANSVERSE ROLLING IN ELECTRICALLY-WELDED LARGE DIAMETER PIPES 67-04 M07-67779
DEVELOPMENT OF BERYLLIUM STRUCTURE FOR SPACE VEHICLES 67-04 M07-67899
THE GROWTH OF LARGE SINGLE CRYSTAL SHEETS WITH THE --100-- --011-- ORIENTATION FROM ELECTROLYTIC IRON 67-06 M14-71733
KINEMATIC AND FORCE PARAMETERS OF HELICAL CROSS ROLLING UNDER VARIOUS CONDITIONS OF DEFORMATION
67-08 M07-75015
THE EFFECT OF CROSS ROLLING ON THE ANISOTROPIC PROPERTIES OF HOT ROLLED PLATE
67-08 M17-75803
EFFECT OF TECHNICAL PARAMETERS AND METHODS OF DEFORMATION ON THE RUPTURE OF THE AXIAL ZONE DURING HELICAL CROSS ROLLING 67-10 M07-78976
NEW PROCESS IMPROVES MACHINABILITY OF BAR STOCK
67-11 M07-80933
CROSS SECTIONS /PHYSICS/
SEE SCATTERING CROSS SECTIONS
CROSS SLIP
THE ULTRA-COLD WORKED DUCTILE STATE OF 70/30 BRASS. COMPARISON WITH MAGNESIUM 67-03 M17-65550
INTERACTION BETWEEN DISLOCATIONS AND THETA-PRIME

PRECIPITATES IN AN AL-CU ALLOY
67-05 M14-68871
DISLOCATION DISTRIBUTION IN DEFORMED SILVER SINGLE CRYSTALS 67-06 M13-71525
BY-PASSING OF PRECIPITATES BY PRISMATIC CROSS SLIP 67-06 M14-71722
WORK HARDENING OF ALLOYS CONTAINING HARD PARTICLES 67-07 M13-73849
SLIP IN BERYLLIUM SINGLE CRYSTALS COMPRESSED ALONG THE C-AXIS NEAR 200 C 67-07 M14-73744
FORMATION OF FATIGUE STRIATIONS IN FCC METALS 67-07 M17-72660
EFFECT OF TRACE IMPURITIES ON THE CRSS FOR --0001-- SLIP IN BERYLLIUM 67-07 M17-73735
MOVEMENT OF DISLOCATIONS AND CROSS-SLIP IN AL-MG ALLOYS 67-08 M13-75075
EXPERIMENTAL INVESTIGATION OF PRISMATIC CROSS-SLIP OF DISLOCATIONS IN THE VICINITY OF COHERENT, STRAINED PRECIPITATIONS 67-09 M13-77931
STACKING FAULTS IN TUNGSTEN 67-11 M13-80233
THE ROLE OF CROSS-SLIP IN BRITTLE FRACTURE AND FATIGUE 67-11 M17-81034
DISLOCATION AND DEFORMATION MODES IN CHROMIUM SINGLE CRYSTALS 67-12 M13-82564
ORDERING AND ITS EFFECT ON DISLOCATION ARRANGEMENTS IN MG3CD 67-12 M14-82962
THE COFFIN-MANSON LAW IN RELATION TO SLIP CHARACTER 67-12 M17-82735

CROSS SLIP, STRESS EFFECTS
STRIATIONS ON COPPER SINGLE CRYSTALS SUBJECTED TO TORSIONAL FATIGUE. PT. 1. A TEST OF THE RELATION OF CROSS SLIP TO FATIGUE STRIATION FORMATION 67-08 M14-75122
STRIATIONS ON COPPER SINGLE CRYSTALS SUBJECTED TO TORSIONAL FATIGUE. PT. 2. THE MECHANISM OF FATIGUE STRIATION FORMATION AND FATIGUE FAILURE AT LOW STRAIN AMPLITUDES 67-08 M14-75123

CROSS TENSION TEST
SEE TENSION TESTS

CROWDIONS
THE CONVERSION-TWO-INTERSTITIAL MODEL FOR RADIATION DAMAGE IN FCC METALS 67-05 M14-69373

CRUCIBLE FURNACES
HEATING AND COOLING UNIT FOR USE WITH POLAROID X-RAY CAMERA 67-02 M12-60699
LARGEST TITANIUM MELTING PLANT 67-03 M03-65149
METHOD FOR MELTING EASILY FUSIBLE MATERIALS 67-04 M03-66402
CRUCIBLE TYPE EVAPORATION SOURCE FOR ALUMINUM 67-04 M12-67403
ECONOMICAL MELTING IN CRUCIBLES, FACTORS AFFECTING THE LIFE OF CRUCIBLES 67-05 M06-68521
OPERATIONAL RESULTS OF MELTING SPECIAL STEELS IN THE MEDIUM FREQUENCY FURNACE WITH CRUCIBLES OF FUSED LIME 67-06 M04-71439

CRUCIBLE FURNACES, LINERS
CRUCIBLE LININGS FOR CORELESS ELECTRIC INDUCTION FURNACES 67-05 M06-69887

CRUCIBLE FURNACES, POWDER METALLURGY
ROLE OF POWDER METALLURGY IN THE FABRICATION OF VERY LARGE PARTS 67-01 M09-58683

CRUCIBLE FURNACES, REACTIONS /CHEMICAL/
INTERACTION OF ALUMINUM WITH MAGNESITE LINING OF FURNACE 67-01 M05-57198
CORROSION OF AL2O3-SIO2 CRUCIBLE BY MOLTEN ALUMINUM 67-04 M18-66888
TUNGSTEN CRUCIBLES IN PYROCHEMICAL PROCESSING OF NUCLEAR FUELS 67-06 M01-70714

CRUCIBLES
SEE CRUCIBLE FURNACES

CRUSHERS
SEE ALSO JAW CRUSHERS

CRUSHERS, HARD SURFACING
USE OF SUBLAYER FOR ELECTROSLAG DEPOSIT WELDING OF G13 STEEL ON LOW-CARBON STEEL 67-06 M11-72308

CRUSHERS, MECHANICAL PROPERTIES
INFLUENCE OF HEAT TREATMENT ON THE WEAR RESISTANCE OF CEMENT MILL GRINDING BALLS 67-12 M17-81883

CRUSHERS, WELDING
THE APPLICATION OF AN INTERLAYER BEFORE G13 STEEL IS DEPOSITED 67-11 M11-81580

CRUSHING
EFFECT OF THE DURATION OF GRINDING ON THE ELECTROMAGNETIC PROPERTIES OF CARBONYL IRON POWDERS 67-02 M02-62103
SCRAP PREPARATION AND ITS SIGNIFICANCE IN OPENHEARTH STEELMAKING 67-07 M04-73237
NEW ECONOMIC CONSIDERATIONS APPLYING TO BENEFICIATION FLOTATION OF ORES 67-12 M02-82609

CRUSHING STRENGTH
SEE COMPRESSIVE STRENGTH

CRYOGENIC PROPERTIES
STABILITY OF AUSTENITE IN SOME FE-CR-NI ALLOYS AT LOW DEFORMATION TEMPERATURES 67-02 M14-61981
MECHANICAL PROPERTIES OF KH14G14N3T STEEL AT MINUS 253 C 67-02 M17-61977
MECHANICAL PROPERTIES OF KH21G7AN5 STEEL AT LIQUID HYDROGEN TEMPERATURE 67-02 M17-61978
INVESTIGATION OF IMPACT STRENGTH OF AUSTENITIC STEELS AT LOW TEMPERATURES 67-02 M17-61979
PLASTIC DEFORMATION OF TITANIUM AT LOW TEMPERATURES 67-02 M17-61980
ELECTRON-HOLE RECOMBINATION IN BISMUTH BELOW 20 K 67-03 M16-65916
INVESTIGATION OF STEEL UNDER CONDITIONS OF BIAXIAL TENSION AT ROOM AND LOW TEMPERATURES 67-03 M17-65103
AN APPARATUS FOR DETERMINING THE ELASTIC CONSTANT OF METALS IN THE 20 TO - 253 C. TEMPERATURE RANGE 67-03 M17-65612
MECHANICAL PROPERTIES OF REFRACTORY METALS 67-04 M17-66443
MECHANICAL PROPERTIES OF COLUMBIUM AND ITS ALLOYS AT LOW TEMPERATURES 67-04 M17-66448
IMPROVING THE COLD SHORTNESS OF STEEL CASTINGS 67-04 M17-67509
A MATHEMATICAL EXPRESSION OF THE RELATION OF IMPACT STRENGTH OF LOW-CARBON STEELS TO TESTING TEMPERATURE AND CARBON CONTENT 67-04 M17-67616
STUDY OF FRACTURE SURFACES IN CR18NI9TI TYPE STAINLESS STEELS 67-04 M17-67850
ANALYSIS OF TEMPERATURE AND RATE RELATIONSHIPS OF YIELD STRENGTH AND FLOW STRESS OF ARMCO IRON IN THE LOW-TEMPERATURE RANGE 67-04 M17-67924
ELECTRICAL RESISTANCE AND DEFECTS IN CU-AL ALLOYS AT LOW TEMPERATURES 67-05 M15-69648
THE STRENGTH AND COLD RESISTANCE OF AMG5V ALLOY AND ITS WELDED JOINTS AT LOW TEMPERATURES 67-05 M17-69041
EFFECT OF AGING ON THE PROPERTIES OF MARTENSITE OBTAINED FROM STRAINED AUSTENITE 67-05 M17-69671
ANOMALOUS RESISTANCE OF PURE GALLIUM NEAR 1.7 K 67-06 M15-71065
SPECIFIC HEAT OF LEAD IN THE RANGE FROM 2 TO 8 K 67-06 M15-71792
EFFECT OF LOW-TEMPERATURE DEUTERON IRRADIATION ON SOME TYPE-2 SUPERCONDUCTORS 67-06 M16-71789
TWINNING DURING PLASTIC DEFORMATION OF TITANIUM 67-06 M17-69982
STUDY OF THE MECHANICAL PROPERTIES OF SOME TITANIUM ALLOYS AT LOW TEMPERATURES 67-06 M17-69988
DEFORMATION OF SINGLE CRYSTALS OF AGING CU-NI-CO ALLOYS IN VARIOUS STRUCTURAL STATES 67-06 M17-69994
A REMOTE CONTROLLED APPARATUS FOR MEASURING THE INTERNAL FRICTION AND MODULUS OF ELASTICITY OF RADIOACTIVE SUBSTANCES 67-06 M17-70323
MECHANICAL CHARACTERISTICS OF CERTAIN COPPER ALLOYS CAST AT VERY LOW TEMPERATURES 67-06 M17-72152
ON THE ORIENTATION DEPENDENCE OF YIELDING IN BCC METALS 67-06 M17-72235
TEMPERATURE DEPENDENCE OF CRITICAL SHEAR STRESS IN ULTRAPURE LEAD SINGLE CRYSTALS TO 1.3 K 67-06 M17-72354
CHARACTERISTICS OF PLASTIC DEFORMATION OF AL SINGLE CRYSTALS IN THE 1.3 TO 4.2 K. TEMPERATURE RANGE 67-06 M17-72357
ON THE TESTING OF STEEL IN BIAXIAL TENSION AT ROOM TEMPERATURE AND LOWER TEMPERATURES 67-07 M17-72789
PRELIMINARY INVESTIGATIONS ON A NEW WELDABLE ALLOY --ARGONAL 50-- OF THE AL-ZN-MG SYSTEM 67-08 M01-75379
WHATS SO TOUGH ABOUT CRYOGENIC COLD 67-08 M17-74441
A SPECIAL FEATURE OF METAL FLOW IN COOLING MEDIA CONSISTING OF LIQUIDS AND AIR 67-08 M17-75010
FRENCH STANDARD SPECIFICATION PNA36-208 ON STEELS FOR LOW-TEMPERATURE APPLICATIONS 67-08 M19-76291

CRYOGENIC PROPERTIES

A VERSATILE ALUMINUM ALLOY FOR CRYOGENIC APPLICATIONS 67-09 M01-77302
AN AGE-HARDENABLE, LOW-EXPANSION ALLOY FOR CRYOGENIC SERVICE 67-09 M01-77821
WELDABILITY OF TYPE KH14G14N3T CHROMIUM-NICKEL-MANGANESE STEELS 67-09 M11-77606
THE STABILITY OF THE AUSTENITE IN CHROMIUM-NICKEL STAINLESS STEELS AND THEIR PROPERTIES AT LOW TEMPERATURES 67-09 M14-76957
EFFECT OF SAMPLE GEOMETRY ON MAGNETOMORPHIC OSCILLATIONS IN THE HALL EFFECT IN CADMIUM AT LIQUID-HELIUM TEMPERATURES 67-09 M15-77168
MICROWAVE EMISSION FROM N-TYPE INDIUM ANTIMONIDE AT 4.2 AND 77 K 67-09 M16-77010
A REVIEW OF CRYOGENIC FRACTURE TOUGHNESS BEHAVIOR 67-09 M17-77303
NOTCH TOUGHNESS OF SOME ALUMINUM ALLOY CASTINGS AT CRYOGENIC TEMPERATURES 67-09 M17-77304
MECHANICAL PROPERTIES OF LOW-CARBON NICKEL STEELS AT MINUS 253 C 67-09 M17-77416
EFFECT OF AGING ON THE TENSILE PROPERTIES OF ALLOY 7039 GTA WELDS AT LOW TEMPERATURES 67-09 M17-77489
CRYOGENIC PROPERTIES OF 18NI-9CO-5MO AND 18NI-7CO-5MO MARAGING STEEL SHEET 67-09 M17-77566
MECHANICAL PROPERTIES OF SEVERAL NICKEL-BASE ALLOYS AT ROOM AND CRYOGENIC TEMPERATURES 67-09 M17-78271
AN AUSTENITIC MANGANESE-CHROMIUM STEEL FOR USE AT TEMPERATURES DOWN TO -70 C., AND THE METHOD OF PRODUCING IT 67-10 M01-79663
STABILITY OF AUSTENITE IN SOME FE-CR-NI ALLOYS IN DEFORMATION AT LOW TEMPERATURE 67-10 M14-78838
A STATISTICAL ANALYSIS OF ALUMINUM WELDS TESTED AT CRYOGENIC TEMPERATURES 67-10 M17-78477
MECHANICAL PROPERTIES OF KH14G14N3T STEEL AT MINUS 253 C 67-10 M17-78834
MECHANICAL PROPERTIES OF KH21G7AN5 STEEL AT THE TEMPERATURE OF LIQUID HYDROGEN 67-10 M17-78835
IMPACT TOUGHNESS OF AUSTENITIC STEELS AT LOW TEMPERATURES 67-10 M17-78836
STUDY OF THE CHARACTERISTICS OF STEEL DURING DEFORMATION AT HIGH RATES 67-10 M17-79741
MECHANICAL PROPERTIES OF METALS 67-11 M17-80764
MECHANICAL PROPERTIES OF REFRACTORY METALS 67-11 M17-80984
MECHANICAL PROPERTIES OF NIOBIUM AND NIOBIUM ALLOYS AT LOW TEMPERATURE 67-11 M17-80989
COMPOSITES AT LOW TEMPERATURES 67-11 M17-81519
TITANIUM AND TITANIUM ALLOYS 67-12 M01-81942
HIGH-ALLOYED CAST STEELS. THE PRESENT STATE AND DEVELOPMENT TRENDS 67-12 M17-83288
INVESTIGATION OF ON6A AND ON9A STEELS FOR PERFORMANCE AT -196 C 67-12 M17-83531
TITANIUM ALLOYS FOR CRYOGENIC TECHNOLOGY 67-12 M17-83532
NOTCH SENSITIVITY OF KH21G7AN5 STAINLESS STEEL AT LIQUID HYDROGEN TEMPERATURE 67-12 M17-83533
LOW-TEMPERATURE MECHANICAL PROPERTIES OF SOME ALUMINUM ALLOY WELDS 67-12 M17-83534

CRYOGENIC PROPERTIES, ALLOYING EFFECTS
PROPERTIES OF MANGANESE STEELS ALLOYED WITH CARBIDE-FORMING ELEMENTS 67-02 M17-61974
INFLUENCE OF NICKEL ON MECHANICAL PROPERTIES AND CRYOGENIC PROPERTIES OF LOW-CARBON STEEL 67-02 M17-61976
PROPERTIES OF AUSTENITIC MANGANESE STEELS ALLOYED WITH CARBIDE-FORMING ELEMENTS 67-10 M17-78831
EFFECT OF NICKEL ON THE MECHAICAL PROPERTIES AND COLD BRITTLENESS THRESHOLD OF LOW-CARBON STEEL 67-10 M17-78833
EFFECT OF CERTAIN ALLOYING ELEMENTS ON THE STRENGTH AND PLASTICITY OF TITANIUM IN THE -196 TO 800 C. TEMPERATURE RANGE 67-11 M17-81163

CRYOGENIC PROPERTIES, RADIATION EFFECTS
RADIATION EFFECTS ON SHEAR STRENGTH OF SEVERAL ALLOYS AT LIQUID HYDROGEN ENVIRONMENT 67-09 M17-78109
EXTREMES IN ENVIRONMENTAL TESTING 67-11 M17-81239

CRYOGENIC PUMPING
SEE CRYOPUMPING

CRYOGENIC TEMPERATURE
SEE CRYOGENICS

CRYOGENICS
ADVANCES IN CRYOGENIC ENGINEERING. V. 10 67-01 M01-57619
EVALUATION OF STAINLESS STEEL CASTING ALLOYS FOR CRYOGENIC SERVICE IN THE 80-INCH LIQUID-HYDROGEN BUBBLE CHAMBER 67-01 M11-57622
AUTOMATIC SUBMERGED ARC WELDING OF 06N3 COLD-RESISTANT STEEL 67-01 M11-58203
WELDING ALUMINUM ALLOY 7039 67-01 M11-58775
A FIELD-ION MICROSCOPE OPERATING AT LIQUID NEON TEMPERATURE 67-01 M13-58690
DILUTE GOLD-IRON THERMOELEMENTS IN LOW-TEMPERATURE THERMOCOUPLES 67-01 M15-57632
THERMOELECTRIC POWER OF ANNEALED AND QUENCHED GOLD-PLATINUM ALLOYS AT LOW TEMPERATURES 67-01 M15-58634
ANOMALOUS SPECIFIC HEAT OF NB3SN IN THE LIQUID HELIUM REGION 67-01 M15-58644
MAKING EFFECTIVE USE OF SUPERCONDUCTING MAGNETS 67-01 M16-57233
THE TEMPERATURE DEPENDENCE OF THE ELECTRICAL RESISTANCE OF ALKALI METALS AT LOW TEMPERATURES 67-01 M16-58399
FATIGUE BEHAVIOR OF ALUMINUM AND TITANIUM SHEET MATERIALS DOWN TO MINUS 423 F 67-01 M17-57620
CRYOGENIC TENSILE PROPERTIES OF SELECTED AEROSPACE MATERIALS 67-01 M17-57621
METALLURGICAL EVALUATION OF A NEW ALUMINUM CASTING ALLOY DEVELOPED FOR SPACE VEHICLE USE AT CRYOGENIC TEMPERATURES 67-01 M17-57623
AN ANOMALOUS DECREASE OF THE ELASTIC MODULI AT VERY LOW TEMPERATURES IN SOME 300 SERIES STAINLESS STEELS 67-01 M17-57624
SHEAR STRENGTH OF SEVERAL ALLOYS AT LIQUID-HYDROGEN TEMPERATURES 67-01 M17-57625
CHARPY IMPACT TESTING AT 20 K 67-01 M17-57626
MECHANICAL PROPERTIES OF SEVERAL 2000 AND 6000 SERIES ALUMINUM ALLOYS 67-01 M17-57627
EVALUATION OF FRACTURE CHARACTERISTICS OF ALUMINUM ALLOYS AT CRYOGENIC TEMPERATURES 67-01 M17-57628
EVALUATION OF THE EFFECTS OF SPECIMEN CONFIGURATION AND TESTING VARIABLES ON CRACK PROPAGATION PROPERTIES 67-01 M17-57629
LOW-TEMPERATURE FLOW AND FRACTURE BEHAVIOR OF TANTALUM 67-01 M17-57630
CREEP PROPERTIES OF 18-10 AND 25-20 STAINLESS STEELS AT CRYOGENIC TEMPERATURES 67-01 M17-57631
EFFECT OF ALLOYING ON THE ELASTIC MODULUS, STRENGTH AND PLASTICITY OF TITANIUM AT MINUS 196 TO 800 C 67-01 M17-58129
EVALUATION OF MATERIALS FOR CRYOGENIC PROPELLANT TANKAGE 67-01 M17-58344
METALLURGICAL ADVANTAGES AND ADVANCES IN HEAT TREATED STEELS, WITH PARTICULAR REFERENCE TO THE WELDABLE CONSTRUCTIONAL STEELS. PT. 3 67-01 M17-58449
DIFFUSED SEMICONDUCTOR LOW TEMPERATURE THERMOMETERS 67-01 M19-57225
LOW-TEMPERATURE GERMANIUM RESISTANCE THERMOMETRY 67-01 M19-57228
ANTIFRICTION PROPERTIES OF BORON NITRIDE DURING DRY FRICTION IN A GASEOUS MEDIUM AND AT LOW TEMPERATURES 67-02 M09-61708
INVESTIGATION OF THE STRENGTH AND DUCTILITY OF POWDER METALLURGY PARTS AT LOW TEMPERATURES 67-02 M09-61711
ELECTRON DIFFRACTION AT LOW TEMPERATURE. PT. 2. RADIAL DISTRIBUTION ANALYSIS OF METASTABLE STRUCTURE OF METAL FILMS PREPARED BY LOW TEMPERATURE CONDENSATION 67-02 M13-60514
ELECTRON DIFFRACTION OF LOW TEMPERATURE. PT. 3. RADIAL DISTRIBUTION ANALYSIS OF METASTABLE STRUCTURE OF METAL FILMS PREPARED BY LOW TEMPERATURE CONDENSATION 67-02 M13-60515
LATTICE THERMAL CONDUCTIVITY OF ANTIMONY DOWN TO 0.4 K 67-02 M15-60256
SOME FRACTURE CONSIDERATIONS IN THE DESIGN AND ANALYSIS OF SPACECRAFT PRESSURE VESSELS 67-02 M17-61138
FORGING AND SOLUTION TREATING ALLOY 718 67-03 M10-65977
SUCCESSFUL WELDING FOR LOW TEMPERATURE SERVICE 67-03 M11-65297
LOW-TEMPERATURE SPECIFIC HEAT AND DENSITY OF STATES OF BORONATED GRAPHITE 67-03 M15-65034
THE LOW TEMPERATURE SPECIFIC HEAT OF SOME DILUTE PLATINUM-IRIDIUM AND PLATINUM-GOLD ALLOYS

67-03 M15-65365
MAGNETIC HYSTERESIS OF HOLMIUM METAL AT 4.2 K
67-03 M15-65887
TEMPERATURE DEPENDENCE OF ELECTRON SCATTERING IN THIN SINGLE CRYSTAL FILMS OF GALLIUM AT HE TEMPERATURES 67-03 M16-65140
LOW-TEMPERATURE INTERNAL FRICTION IN SILICON
67-03 M16-65632
DEFORMATION MECHANISMS IN TITANIUM AT LOW TEMPERATURES 67-03 M17-65084
AN ALPHA-MANGANESE RESISTANCE THERMOMETER FOR THE MEASUREMENT OF LOW TEMPERATURES
67-03 M20-65738
LOW TEMPERATURE THERMOELECTRIC POWER OF GOLD-IRON VERSUS SILVER NORMAL THERMOCOUPLES
67-03 M20-65739
NEW STEELS FOR THE CPI 67-04 M01-66588
TIN IN COLD SERVICE 67-04 M14-67762
ELECTRICAL AND THERMOMETRIC PROPERTIES OF SUPERIMPOSED LEAD-COPPER FILMS AT LOW TEMPERATURES 67-04 M15-66120
THE ELECTRICAL RESISTIVITY OF THERMOMETRICALLY PURE PLATINUM BELOW 11 K 67-04 M16-68162
TEXTURED TITANIUM IN DESIGN 67-04 M17-66290
LOW-TEMPERATURE IRRADIATION STUDIES
67-04 M17-67312
PROPERTIES OF CR-MN-NI STEELS CONTAINING NITROGEN AT LOW TEMPERATURES 67-04 M17-67975
LOW-NICKEL AUSTENITIC KH14G14N3T STEEL
67-04 M17-67976
MECHANICAL PROPERTIES OF AUSTENITIC STAINLESS STEELS AT -253 C 67-04 M17-67984
WELDING OF 9NI STEEL TANKS FOR THE STORAGE OF LIQUID OXYGEN 67-05 M11-69168
THE LATTICE PARAMETERS OF ALPHA-MANGANESE AT LOW TEMPERATURES 67-05 M13-69377
CRYSTAL STRUCTURE OF TERBIUM AT 120 TO 300 K
67-05 M14-69025
THERMAL CONDUCTION IN BISMUTH AT LIQUID HELIUM TEMPERATURES 67-05 M15-69095
PHOTOCONDUCTIVITY QUENCHING SPECTRA OF A THIN SAMPLE OF GERMANIUM AT 77 C 67-05 M16-69389
MECHANICAL PROPERTIES OF METALS FOR CRYOGENIC SERVICE STRENGTH TO DENSITY RATIO OF METALS FOR CRYOGENIC SERVICE 67-05 M17-68680
BLOCK DISORIENTATION AND THE LOW-TEMPERATURE STRENGTH OF ALUMINUM 67-05 M17-68842
ON THE MANUFACTURING PROCESS AND PROPERTIES OF FLT-9N STEEL FOR CRYOGENIC TEMPERATURE SERVICE
67-05 M17-69363
SOME METALLURGICAL ASPECTS OF THE LOW-TEMPERATURE TOUGHNESS OF 9 PER CENT NI STEEL
67-05 M17-69364
ON THE WELDABILITY OF 9 PER CENT NI STEEL, NLT 9N
67-05 M17-69365
EFFECT OF COLD WORKING ON THE TOUGHNESS OF 9 PER CENT NICKEL STEEL 67-05 M17-69366
BRITTLE FRACTURE INITIATION CHARACTERISTICS FOR WELD HEAT AFFECTED ZONE OF 9 PER CENT NI STEEL
67-05 M17-69367
A NEWLY DEVELOPED COVERED ARC WELDING ELECTRODE LM-40 FOR LOW-TEMPERATURE SERVICE
67-05 M17-69368
FABRICATION OF LIQUEFIED OXYGEN AND NITROGEN STORAGE TANKS FROM FLT9N --9 PER CENT NICKEL-- STEEL 67-05 M17-69369
ELASTIC CONSTANTS OF SINGLE CRYSTAL CORUNDUM BELOW ROOM TEMPERATURE 67-05 M17-69573
CRYOGENICS--APPLICATION OF AL ALLOYS, THEIR MECHANICAL PROPERTIES AND METHODS OF TESTING THEM
67-05 M17-69700
APPARATUS FOR ROLLING METALS AT 4.2-300 K
67-06 M07-70167
DOUBLE MECHANICAL HEAT SWITCH FOR CALORIMETRY BELOW 1 K 67-06 M15-70552
ELECTRICAL RESISTIVITY OF POLYCRYSTALLINE PRASEODYMIUM BETWEEN 2 AND 325 K
67-06 M15-70798
INFLUENCE OF PLASTIC DEFORMATION ON THE IDEAL ELECTRICAL AND THERMAL RESISTANCES OF COPPER AND ALUMINIUM 67-06 M15-72259
LOW TEMPERATURE THERMAL CONDUCTIVITIES OF TWO HIGH COMPRESSIVE STRENGTH MATERIALS
67-06 M15-72260
CURRENT-CARRYING PROPERTIES OF SUPERCONDUCTING LEAD-BISMUTH ALLOYS 67-06 M15-72261
FEATURES CONCERNING THE LOWER CRITICAL FIELD OF AN INTRINSIC TYPE 2 SUPERCONDUCTOR
67-06 M16-72262
NEW WELDABLE HIGH STRENGTH ALUMINUM ALLOY DEVELOPED FOR CRYOGENIC SERVICE 67-06 M17-70002
NOTCH BRITTLENESS IN MILD STEEL AT -196 C
67-06 M17-71331
BEHAVIOUR OF ELECTRICAL RESISTANCE STRAIN GAUGES AT LOW TEMPERATURES. PT. 2. GAUGE FACTOR
67-06 M20-72258
CRYOGENIC QUENCHING 67-07 M10-74225
TRANSMISSION ELECTRON MICROSCOPY OF VANADIUM-SILICON --V3SI-- AT LOW TEMPERATURES
67-07 M13-73624
OCCURRENCE OF A MINIMUM IN THE ELECTRICAL RESISTIVITY OF CHROMIUM ALLOYS AT LOW TEMPERATURE
67-07 M15-73530
LOW-TEMPERATURE SUSCEPTIBILITIES OF RH AND IR WITH FE IMPURITIES 67-07 M15-73551
FORCED MAGNETOSTRICTION OF NICKEL, COBALT, AND IRON AT 4.2 K 67-07 M15-73561
ANOMALOUS HYSTERESIS LOOPS IN PERMALLOY THIN FILMS NEAR 4.2 K 67-07 M15-73578
CRYOGENIC QUENCHING CUTS WARPAGE
67-08 M10-75000
LOW-TEMPERATURE SPECIFIC HEAT OF ANTIMONY
67-08 M15-74665
IDEAL RESISTIVITY OF PLATINUM BELOW 20 K
67-08 M15-74794
THE USE OF SEMICONDUCTORS FOR THE STUDY OF BOILING HEAT TRANSFER TO LOW TEMPERATURE LIQUIDS
67-08 M15-75652
NONRESONANT MEASUREMENT OF T1 IN FERROMAGNETIC ALLOYS AT VERY LOW TEMPERATURES
67-08 M16-75832
DEVICE FOR DETERMINING THE CHARACTERISTICS OF ELASTICITY OF METALS IN THE TEMPERATURE RANGE PLUS 20 TO MINUS 253 C 67-08 M17-74537
NEW FINDINGS STRETCH TITANIUM PERFORMANCE LIMITS
67-08 M17-74742
INCREASE IN DUCTILITY AND PLASTICITY OF MARTENSITIC STAINLESS STEELS AT MINUS 196 C. AS THE RESULT OF THE REVERSE MARTENSITIC TRANSFORMATION
67-08 M17-74966
INFLUENCE OF CARBON ON THE MECHANICAL PROPERTIES OF AUSTENITIC STEEL AT LOW TEMPERATURES
67-08 M17-74967
MECHANICAL PROPERTIES OF METALS
67-08 M17-75600
STRENGTH AND DUCTILITY CHARACTERISTICS OF SINTERED MATERIALS AT LOW TEMPERATURES
67-08 M17-75856
INFLUENCE OF THE COMPOSITION ON THE COLD BRITTLENESS OF CAST MEDIUM-CARBON STEEL
67-08 M17-76017
MECHANICAL PROPERTIES OF THE EI827 ALLOY AT LOW TEMPERATURES 67-08 M17-76021
STRUCTURES AND EQUIPMENT FOR SERVICE AT CRYOGENIC TEMPERATURES 67-08 M20-74826
THERMAL TRANSPORT ACROSS SUPERCONDUCTING SOLDER JOINTS NEAR 0.1 K 67-09 M15-78030
ELECTROFORMING SHAPES A NEW IMAGE
67-10 M08-78594
BASIC PRINCIPLES OF HEAT TREATMENT OF STEELS FOR LOW-TEMPERATURE APPLICATIONS 67-10 M10-78856
DESIGN AND TESTING OF DISSIMILAR METAL TRANSITION JOINTS EMPLOYING ROLL-BONDED AND FRICTION-WELDED COMPONENTS 67-10 M11-78493
HEAT CONDUCTIVITIES BELOW 1 K. PT. 1
67-10 M15-78780
RADIATION EFFECTS ON SHEAR STRENGTH OF SEVERAL ALLOYS AT LIQUID HYDROGEN ENVIRONMENT
67-10 M16-78492
A REVIEW OF CRYOGENIC FRACTURE TOUGHNESS BEHAVIOR
67-10 M17-78484
NOTCH TOUGHNESS OF SOME ALUMINUM ALLOY CASTINGS AT CRYOGENIC TEMPERATURES 67-10 M17-78485
A VERSATILE ALUMINUM ALLOY FOR CRYOGENIC APPLICATIONS 67-10 M17-78486
A STATISTICAL ANALYSIS OF ALUMINUM WELDS TESTED AT CRYOGENIC TEMPERATURES 67-10 M17-78487
EFFECT OF AGING ON THE TENSILE PROPERTIES OF ALLOY 7039 GTA WELDS AT LOW TEMPERATURES
67-10 M17-78488
AN AGE-HARDENABLE, LOW-EXPANSION ALLOY FOR CRYOGENIC SERVICE 67-10 M17-78489
MECHANICAL PROPERTIES OF SEVERAL NICKEL-BASE ALLOYS AT ROOM AND CRYOGENIC TEMPERATURES
67-10 M17-78490
CRYOGENIC PROPERTIES OF 18NI-9CO-5MO AND 18NI-7CO-
67-10 M17-78491
BURSTING TESTS ON 9 PER CENT NI STEEL PRESSURE

CRYOGENICS

VESSELS AT LOW TEMPERATURES 67-10 M17-78638
STEELS AND ALLOYS FOR CRYOGENIC TECHNOLOGY 67-10 M17-78839
CORROSION OF METALS BY FLOWING LIQUID FLUORINE COMPOUNDS 67-10 M18-78495
THE BASIC PRINCIPLES OF HEAT TREATMENT OF STEELS. PT. 7. STEELS FOR USE AT LOW TEMPERATURES 67-11 M10-80394
MECHANICAL CHARACTERISTICS OF SOME CAST CU ALLOYS AT VERY LOW TEMPERATURES 67-11 M17-80200
TENSILE AND FATIGUE PROPERTIES OF ALLOY 718 AT CRYOGENIC TEMPERATURES 67-11 M17-80520
ENGINEERING STUDIES SHOW POSSIBILITIES FOR LNG PIPELINE 67-11 M20-80513
THE METALLURGY OF ALLOY 718 67-12 M01-83246
FE-36 PER CENT NI WITH LOW THERMAL EXPANSION FOR CRYOGENIC APPLICATIONS 67-12 M01-83342
HEAT CONDUCTIVITIES BELOW 1 K. PT. 2 67-12 M15-83401
THERMAL EXPANSION AT LOW TEMPERATURES OF ANISOTROPIC METALS. INDIUM 67-12 M16-83403

CRYOGENICS, MAGNETIC PROPERTIES
VARIATION OF THE LOW-TEMPERATURE RESISTIVITY IN DILUTE MAGNETIC ALLOYS 67-07 M15-73524

CRYOGENICS, MATERIALS
STEELS AND ALLOYS FOR CRYOGENIC APPLICATIONS 67-02 M17-61982
WHATS SO TOUGH ABOUT CRYOGENIC COLD 67-06 M15-70649

CRYOLITE, CRYSTALLIZATION
EFFECT OF CRYSTALLIZATION CONDITIONS ON THE POSITION OF TRANSITION LINES IN THE CRYOLITE-ALUMINA SYSTEM 67-01 M03-58197

CRYOLITE, ELECTROLYSIS
STUDY OF CERTAIN PHYSICO CHEMICAL PROPERTIES OF FUSED FLUORIDE-CHLORIDE SYSTEMS 67-02 M03-59855
USE OF THE CONTENT OF ANODIC GASES FOR CONTROL OF THE CURRENT EFFICIENCY IN ALUMINUM REDUCTION CELL 67-02 M03-60539
MECHANISM OF ALUMINUM LOSS IN CRYOLITE-ALUMINA MELTS 67-06 M03-70929

CRYOLITE, ELECTROLYTES
VISCOSITY OF AL ELECTROLYTE. PT. 2 67-05 M03-68886

CRYOLITE, OPTICAL PROPERTIES
SUITABILITY OF MAGNESIUM FLUORIDE, CRYOLITE AND FLUORITE AS ANTIREFLECTION MATERIALS FOR INFRARED RADIATIONS 67-08 M15-75566

CRYOLITE, OXIDATION
STABILITY OF SOME REFRACTORY MATERIALS IN CRYOLITE-ALUMINA MELTS 67-05 M03-68959

CRYOLITE, PHYSICAL PROPERTIES
WETTABILITIES OF GRAPHITE MATERIALS BY MELTS OF THE SYSTEM, NA3ALF6-ALF-MGCL2, AND THEIR ELECTRICAL CONDUCTIVITIES 67-12 M03-83458

CRYOLITE, REACTIONS /CHEMICAL/
THE LOSS RATE OF ALUMINUM IN CRYOLITE-ALUMINA MELTS 67-08 M03-76241

CRYOLITE, REFINING
CALCULATION METHOD FOR DETERMINATION OF FLUORINE BALANCE DURING ELECTROLYSIS OF ALUMINUM 67-06 M03-71309

CRYOLITE, SORPTION
INFLUENCE OF ELECTROLYTE ADSORPTION ON PHYSICAL AND CHEMICAL PROPERTIES OF CARBON BLOCKS 67-12 M03-83021

CRYOLITE, X RAY ANALYSIS
NEW COMPOUND FORMED ON A GRAPHITE ANODE DURING THE ANODE EFFECT IN CRYOLITE SOLUTIONS OF OXIDES AT 1025 C 67-12 M19-82237

CRYOMAGNETIC PROPERTIES
THE CRITICAL FIELDS OF SUPERCONDUCTING THIN FILMS OF TIN AND INDIUM ALLOYS 67-03 M16-65736

CRYOPUMPING
A CRYOGENICALLY PUMPED ALL-METAL FIELD ION MICROSCOPE 67-06 M13-70580

CRYOSCOPES
SEE CRYOSCOPY

CRYOSCOPY
ANALYZING CAVITATION IN HIGH-RECOVERY VALVES 67-06 M18-71515

CRYOSTATS
VERSATILE CRYOSTAT FOR THE STUDY OF POINT DEFECTS IN QUENCHED METALS 67-06 M15-70579

CRYOSTATS, DESIGN
A CRYOSTAT AND SUPERCONDUCTING MAGNET SYSTEM FOR EXPERIMENTS IN HIGH MAGNETIC FIELDS BETWEEN 1 AND 300 K 67-08 M15-75653

CRYSTAL DEFECTS
SEE ALSO AGGLOMERATED DEFECTS
CROWDIONS
DISLOCATION LOOPS
DISLOCATIONS
DISPLACEMENTS /LATTICE/
EDGE DISLOCATIONS
FRANK READ SOURCES
FRENKEL DEFECTS
GLISSILE DISLOCATIONS
INTERSTITIAL DEFECTS
LATTICE VACANCIES
POINT DEFECTS
SCREW DISLOCATIONS
SESSILE DISLOCATIONS
SPIKES /LATTICE DEFECTS/
STACKING FAULTS

ON THE AGING PHENOMENA AND LATTICE DEFECTS IN ALUMINIUM ALLOYS. --REPORT 2--. INFLUENCE OF CR, MN AND ZR ON THE PREPRECIPITATION IN AL-ZN ALLOYS 67-01 M14-57454
EFFECT OF THE RECOVERY OF POINT DEFECTS ON THE COERCIVE FIELD OF NICKEL SINGLE CRYSTALS WITHIN THE TEMPERATURE RANGE-250 TO 0 C 67-01 M15-58657
SUBSTRUCTURAL STRENGTHENING IN MATERIALS SUBJECT TO LARGE PLASTIC STRAINS 67-01 M17-57407
MULTIPROCESS CREEP IN URANIUM DEDUCED FROM LITERATURE DATA 67-01 M17-58471
EFFECT OF THE SURFACE STRUCTURE ON THE ELECTROCHEMICAL BEHAVIORS OF ELECTRODEPOSITED NICKEL 67-01 M18-58740
DISLOCATIONS IN ANTIMONY CRYSTALS. PT. 1. DETECTION OF DISLOCATIONS BY ETCHING --111-- PLANES IN A NEW ETCHANT 67-02 M13-61893
ON THE CRYSTAL LATTICE DEFECTS IN METALLIC FINE PARTICLES 67-02 M14-60143
EFFECTS OF LATTICE DEFECTS ON CRITICAL CURRENT OF HARD SUPERCONDUCTING NIOBIUM 67-02 M16-60146
OBSERVATION OF BERYLLIUM SINGLE CRYSTALS BY X-RAY TOPOGRAPHY 67-03 M13-65264
THE ELECTRON MICROSCOPIC STRUCTURE AND LATTICE DEFECTS OF THE MARTENSITE IN COMMERCIALLY PURE TITANIUM 67-03 M13-65840
MULTIPLE DIFFRACTION EFFECTS IN ANNEALED PERMALLOY FILMS 67-03 M13-65882
THE EFFECT OF LATTICE DEFECTS ON THE SUPERCONDUCTION OF MERCURY 67-03 M15-65702
THE CRITICAL SHEAR STRESS OF CUBIC CRYSTALS WITH DEFECT TETRAGONAL SYMMETRY 67-03 M17-65382
BONDING, LATTICE PARAMETER, DENSITY AND DEFECT STRUCTURE OF TIN CONTAINING AN EXCESS OF N 67-04 M13-66537
OBSERVATION OF ELECTRODEPOSITED TUNGSTEN-COBALT ALLOYS UNDER TRANSMISSION ELECTRON MICROSCOPE 67-04 M13-66664
DEPENDENCE OF THE STARTING STRESS FOR PYRAMIDAL DISLOCATIONS ON THE TEMPERATURE AND DEGREE OF PERFECTION OF ZINC CRYSTALS 67-04 M13-67647
LATTICE DEFECTS AND SURFACE PROPERTIES OF CLEAN GERMANIUM 67-04 M13-67738
STRUCTURAL STUDY OF NICKEL SUBJECTED TO PLASTIC DEFORMATION AT INCREASED TEMPERATURES 67-04 M13-67842
RECOVERY OF ELECTRICAL RESISTIVITY OF PURE IRON DEFORMED AT THE LIQUID NITROGEN TEMPERATURE 67-04 M14-66272
THE NATURE OF MICROCRACKS IN ALUMINUM ALLOY PRODUCTS 67-04 M17-67835
STUDIES OF THE DEFECT STRUCTURE OF NONSTOICHIOMETRIC RUTILE, TIO2-X 67-05 M13-68624
FOUR-LAYER DEFECTS IN QUENCHED ALUMINIUM 67-05 M13-68749
USE OF THE DIFFRACTION CONTRAST METHOD FOR INVESTIGATING CRYSTAL DEFECTS 67-05 M13-69626
DECORATED DISLOCATIONS AND SUB-SURFACE DEFECTS INDUCED IN GAAS BY THE IN-DIFFUSION OF ZINC 67-05 M14-68627
BIREFRINGENCE, X-RAY TOPOGRAPHY AND ELECTRON MICROSCOPE EXAMINATION OF THE PLASTIC DEFORMATION OF DIAMOND 67-05 M14-68753
MIGRATION OF XENON THROUGH A UO2 MATRIX CONTAINING TRAPPING SITES 67-05 M16-68351
X-RAY METHODS IN THE STUDY OF DEFECTS IN SINGLE CRYSTALS 67-06 M13-71807
VACANCY-DEFECTIVE INTERMEDIATE PHASES

67-06 M14-70415
LATTICE DEFECT RESEARCH BY KOSSEL TECHNIQUE AND DEFORMATION ANALYSIS 67-06 M14-71421
ENHANCED STAGE 1 RECOVERY OF DEFORMED ALUMINUM 67-06 M14-71516
COMMENTS ON THE LOW TEMPERATURE ELECTRICAL RESISTIVITY OF LATTICE DEFECTS IN DEFORMED TUNGSTEN SINGLE CRYSTALS 67-06 M15-70429
REPLY TO COMMENTS ON THE LOW TEMPERATURE ELECTRICAL RESISTIVITY OF LATTICE DEFECTS IN DEFORMED TUNGSTEN SINGLE CRYSTALS 67-06 M15-70430
STRUCTURE FORMATION OF CARBONYL IRON POWDER 67-07 M13-73292
RELAXATION SPECTRUM OF DEFORMED AL PLUS 0.25 WT PER CENT FE 67-07 M13-73983
DEFECTS OF ANNEALED HIGH-CARBON STEEL STRIP 67-07 M14-73263
THE RECOVERY KINETICS OF DEFORMED COPPER-PALLADIUM AND GOLD-PALLADIUM ALLOYS 67-07 M14-73909
GROWTH MECHANISMS AND CRYSTALLINE QUALITY OF DIAMOND TYPE COMPOUNDS AND CRYSTALS IN THE 3-5 AND 2-6 GROUPS 67-07 M14-73926
THERMODYNAMIC PROPERTIES AND NONSTOICHIOMETRY OF THORIUM MONOCARBIDE 67-07 M15-74228
NATURE AND MECHANISM OF DEFECT FORMATION IN ANTIMONY AND BISMUTH CRYSTALS 67-08 M13-75271
THE USE OF X-RAY TOPOGRAPHY FOR THE OBSERVATION AND CHARACTERIZATION OF GROSS IMPERFECTIONS IN SAPPHIRE SINGLE CRYSTALS 67-08 M13-75995
ELECTRICAL RESISTIVITY STUDY OF LATTICE DEFECTS INTRODUCED IN ZONE REFINED-IRON BY DEFORMATION AT MINUS 196 C 67-08 M14-75051
SPINEL TO DEFECT NIAS STRUCTURE TRANSFORMATION 67-08 M14-75996
REAL STRUCTURE AND REACTIVITY OF SILICON SINGLE CRYSTALS 67-09 M13-76775
THE SCANDIUM--CARBON SYSTEM. PT. 1 67-09 M13-77514
GAS BUBBLES IN THERMOCHEMICALLY DEPOSITED TUNGSTEN 67-09 M14-77477
FUNDAMENTALS OF THERMOMECHANICAL TREATMENTS 67-10 M10-79210
OBSERVATION OF CRYSTAL FIELDS BY MEANS OF THE MOSSBAUER EFFECT 67-10 M16-78305
THE STUDY OF CRYSTAL IMPERFECTIONS BY MEANS OF OPTICAL METHODS AND BY MEANS OF ELECTRON MICROSCOPY AND ELECTRON DIFFRACTION 67-11 M13-80140
ELECTRON PARAMAGNETIC RESONANCE STUDY OF A PARTIALLY REDUCED TITANIUM DIOXIDE 67-11 M13-81559
DIFFUSIONAL PROPERTIES OF THE STAGE-3 DEFECT IN COPPER. PT. 2. A MODEL FOR DEFECT-DISLOCATION INTERACTIONS 67-11 M14-81081
DIFFUSIONAL PROPERTIES OF THE STAGE-3 DEFECT IN COPPER. PT. 3. BULK DIFFUSION 67-11 M16-81082
THERMAL STABILITY OF LATTICE DEFECTS IN NICKEL AND ITS SOLID SOLUTIONS 67-11 M17-81426
TRACE CHARACTERIZATION--CHEMICAL AND PHYSICAL 67-11 M19-80130
A DYNAMIC THEORY OF COHERENT PRECIPITATION HARDENING WITH APPLICATION TO NICKEL-BASE-SUPER-ALLOYS 67-12 M10-82720
MICROGRAPHIC EVIDENCE OF THE ELIMINATION OF QUENCHED-IN VACANCIES IN ALUMINUM DURING GRADUAL REHEATING AT VARIOUS TEMPERATURES 67-12 M13-82282
ON STRUCTURAL DEFECTS OCCURRING DURING TWINNING OF SILICON IRON 67-12 M13-82412
THE PLASTIC DEFORMATION OF SINGLE CRYSTALS OF VANADIUM AT 298 AND 77 K 67-12 M13-82717
MICROMAGNETIC THEORY FOR MAGNETIZATION OF SINGLE CRYSTALS 67-12 M15-82221
THE EFFECT OF NEUTRON IRRADIATION ON THE ROLLING TEXTURE OF COPPER 67-12 M16-82872
HARDENING OF POLYCRYSTALLINE REFRACTORY METALS AND ALLOYS 67-12 M17-81991

CRYSTAL DEFECTS, ALLOYING EFFECTS
THE AGING PHENOMENA AND LATTICE DEFECTS IN ALUMINIUM ALLOYS. PT. 1. INFLUENCE OF FE, SI ON THE PREPRECIPITATION IN AL-ZN ALLOY 67-02 M14-59719
EFFECT OF SMALL ADDITIONS OF PHOSPHORUS ON THE STRENGTHENING AND STACKING FAULT DENSITY OF COPPER-ALUMINIUM ALLOYS 67-05 M14-68253
LATTICE DISTORTION OF VANADIUM METAL BY JAHN-TELLER -LIKE ENERGY-SPLITTING 67-11 M13-81475

CRYSTAL DEFECTS, COOLING EFFECTS
THE ELECTRICAL RESISTANCE OF PLATINUM AT REPEATED QUENCHING. PT. 1. THE REVERSIBLE CHANGE 67-02 M15-61096
QUENCHING OF METALS CONTAINING IMPURITY. PT. 2. SUBSTITUTIONAL IMPURITY IN BODY-CENTERED-CUBIC METALS 67-12 M13-82522

CRYSTAL DEFECTS, HEATING EFFECTS
STABILIZATION OF QUENCHING TETRAHEDRA OF STACKING FAULTS IN COPPER BY MEANS OF ALUMINUM IMPURITY 67-09 M13-76786

CRYSTAL DEFECTS, IMPURITY EFFECTS
THE OBSERVATION OF DEFECTS IN GAAS USING PHOTOLUMINESCENCE AT 20 K 67-06 M14-71147
DETECTION OF SELENIUM CLUSTERING IN GAAS BY TRANSMISSION ELECTRON MICROSCOPY 67-07 M14-72650

CRYSTAL DEFECTS, PRESSURE EFFECTS
EFFECTS OF HYDROSTATIC PRESSURE ON TERMINAL STRUCTURE AND MECHANICAL BEHAVIOR OF BERYLLIUM 67-06 M13-72224

CRYSTAL DEFECTS, RADIATION EFFECTS
TRANSMISSION ELECTRON MICROSCOPE STUDIES OF NEUTRON IRRADIATED BERYLLIUM OXIDE 67-02 M13-59049
EFFECT OF 60CO GAMMA RAYS ON HIGH-RESISTIVITY P-TYPE SI 67-02 M14-61833
THE ANNEALING OF IRRADIATION DAMAGE IN GRAPHITE 67-02 M15-59054
RADIATION DAMAGE IN SOLIDS 67-04 M16-67301
RADIATION DAMAGE IN PD PRODUCED BY 1-3 MEV ELECTRONS 67-05 M16-69810
RECOVERY OF DEFECTS IN NEUTRON-IRRADIATED TUNGSTEN 67-07 M14-73382
GAS FORMATION AND COMPRESSION FRACTURES IN IRRADIATED BERYLLIUM 67-07 M14-73396
COMPUTER STUDIES OF NEUTRON IRRADIATION AND ANNEALING IN FINITE BCC IRON SPECIMENS 67-07 M16-73377
DEFECTS IN NEUTRON IRRADIATED MOLYBDENUM 67-09 M13-77927
FORMATION OF STRUCTURE DEFECTS IN LOW-TEMPERATURE X-IRRADIATION OF INDIUM ANTIMONIDE 67-09 M16-76778
ANNEALING STUDIES OF IRRADIATED PLATINUM 67-12 M13-82521
MEASUREMENTS OF THE ENERGY LIBERATED DURING THE HEATING OF BE SPECIMENS IRRADIATED BY NEUTRONS AT 77 K 67-12 M16-82509
FISSION FRAGMENT DAMAGE TO METALLIC CRYSTALS. PT. 1. SINGLE CRYSTAL GOLD 67-12 M16-82544
FISSION FRAGMENT DAMAGE TO METALLIC CRYSTALS. PT. 2. ORDERED CU-AU ALLOY 67-12 M16-82545

CRYSTAL DEFECTS, STRESS EFFECTS
THE INFLUENCE OF DEFORMATION ON COHERENCE LENGTH, LATTICE DISTORTIONS AND STACKING FAULT PROBABILITY OF UNIAXIALLY STRAINED HOMOGENEOUS AND HETEROGENEOUS ALLOYS 67-02 M13-60876
EFFECTS OF STRESS-INDUCED BAND-GAP WIDENING AND DEFECTS IN GAAS JUNCTIONS 67-02 M15-61830
TENSILE STRENGTH OF NICKEL WHISKERS 67-06 M17-71976
LATTICE DEFECTS IN SINGLE CRYSTALS OF COARSE-GRAINED POLYCRYSTALLINE IRON SPECIMENS DURING TENSILE DEFORMATION 67-09 M14-76795

CRYSTAL DEFECTS, TEMPERATURE EFFECTS
HARDENING AND TEMPERATURE STABILITY OF STRUCTURAL CHANGES, CAUSED BY GAMMA-TO-EPSILON AND EPSILON-TO-GAMMA TRANSFORMATIONS IN FE-MN ALLOYS 67-08 M14-75264

CRYSTAL GROWTH
SEE ALSO EPITAXIAL GROWTH
FRANK GROWTH MECHANISM
CHANGE IN MOSAIC STRUCTURE ASSOCIATED WITH THE DISTRIBUTION OF IMPURITIES IN GROWING SINGLE CRYSTALS AND BICRYSTALS FROM THE MELT 67-01 M14-57102
GROWTH PYRAMIDS IN EPITAXIAL GAAS 67-01 M14-57448
THE GROWTH MORPHOLOGY OF ZINC AND CADMIUM SINGLE CRYSTALS INVESTIGATED BY ELECTRON MICROSCOPY 67-01 M14-57578
INDIUM SELENIDE IN2SE3 67-01 M14-57646
EPITAXIAL GROWTH OF GALLIUM ARSENIDE SOLID SOLUTION SINGLE CRYSTALS 67-01 M14-57654
CRYSTALLIZATION OF INDIUM PHOSPHIDE FROM THE GASEOUS PHASE 67-01 M14-57655
POSSIBILITIES OF USING INDUCTION HEATING AT AUDIOFREQUENCIES IN APPARATUS TO MANUFACTURE SEMICONDUCTING MATERIALS BY PULLING FROM THE MELT

67-01 M14-57686
METHODS OF DETERMINING THE DISTRIBUTION RATIOS OF VOLATILE IMPURITIES DURING GROWING OF GALLIUM ARSENIDE SINGLE CRYSTALS BY DIRECTED CRYSTALLIZATION 67-01 M14-57696
GROWING PURE SINGLE CRYSTALS OF REFRACTORY METALS AND MEASUREMENT OF THE HALL EFFECT ON THESE 67-01 M14-58080
THE PROBLEM OF IMPURITY DISTRIBUTION IN SILICON SINGLE CRYSTALS GROWN BY THE CZOCHRALSKI METHOD 67-01 M14-58140
POLYMORPHISM AND POLYTYPISM IN CRYSTALS 67-01 M14-58301
RHEOTAXIAL GROWTH OF SILICON WITH GERMANIUM-SILICON ALLOYS 67-01 M14-58317
GROWTH OF ZNSE SINGLE CRYSTAL BY THE CHEMICAL TRANSPORT REACTION 67-01 M14-58328
STUDIES ON CRYSTALLIZATION OF PURE BORON 67-01 M14-58405
PREPARATION AND CHARACTERIZATION OF SINGLE-CRYSTAL BORON 67-01 M14-58406
GROWTH OF WHISKER CRYSTALS AND RELATED MORPHOLOGIES BY ELECTROTRANSPORT 67-01 M14-58694
GROWTH OF ZINC SINGLE-CRYSTAL FOILS FROM THE MELT 67-01 M14-58783
ON THE BIREFRINGENCE OF SIMPLE RHOMBOHEDRAL BORON 67-01 M15-58419
PRELIMINARY EXPERIMENTS ON FABRICATING MOS TRANSITORS AND MOS INTEGRATED CIRCUITS 67-01 M16-58315
DEVELOPMENT TRENDS IN METALLIC MATERIALS 67-02 M01-60203
GROWING AND REFINING YTTRIUM SINGLE CRYSTALS 67-02 M03-61942
THE STRUCTURE OF PERFECT DENDRITIC GERMANIUM CRYSTALS 67-02 M13-61097
DISTRIBUTION OF ANTIMONY IN SINGLE CRYSTALS OF GERMANIUM GROWN IN ASYMMETRICAL THERMAL FIELDS 67-02 M13-61724
EPITAXIAL FILMS OF ZNTE ON IONIC SUBSTRATES 67-02 M14-59013
GROWTH OF INAS WHISKERS IN WURTZITE STRUCTURE 67-02 M14-59067
CRYSTAL PERFECTION OF ALPHA-AL203 AS A FUNCTION OF GROWTH METHOD 67-02 M14-59488
EFFECT OF CRYSTALLIZATION CONDITIONS ON THE MOSAIC MACRO- AND MICROSTRUCTURE IN METALLIC CRYSTALLITES PREPARED FROM A MELT 67-02 M14-59865
ON THE EPITAXIAL PRECIPITATION OF ZINC SULFIDE AND LEAD SULFIDE ON ZINC SULFIDE BY A CHEMICAL TRANSPORT REACTION AND BY SUBLIMATION 67-02 M14-60114
ON SURFACE POLYCRYSTALS OF CADMIUM 67-02 M14-60115
SINGLE CRYSTALS OF METALS 67-02 M14-60288
SYNTHESIS OF A NEW DOUBLE OXIDE OF URANIUM AND NIOBIUM 67-02 M14-60556
PREPARATION OF SINGLE CRYSTALS OF IRON AND IRON ALLOYS 67-02 M14-60622
THIN FILMS OF AMORPHOUS IRON 67-02 M14-60822
THE GROWTH OF NEEDLE-LIKE CRYSTALS ON TUNGSTEN IN ARGON 67-02 M14-60878
PREPARATION OF ORIENTED HG SINGLE CRYSTALS 67-02 M14-60921
CRYSTAL GROWTH OF WUSTITE,FE1-XO 67-02 M14-60922
A STRAIN-ANNEAL METHOD OF GROWING CRYSTALS OF ALPHA-URANIUM 67-02 M14-61296
GROWTH OF SINGLE CRYSTALS OF ZIRCALOY-2 67-02 M14-61298
THE GROWING OF SINGLE-CRYSTAL LAYERS OF IRON, NICKEL, COBALT AND THEIR ALLOYS 67-02 M14-61513
EPITAXIAL GROWTH OF GERMANIUM ON GERMANIUM SUBSTRATES CLEANED AND HEATED BY ELECTRON BOMBARDMENT 67-02 M14-61525
PREPARATION OF HEXAGONAL CADMIUM TELLURIDE FILMS 67-02 M14-61660
GROWTH OF VANADIUM ON SILICON SUBSTRATES 67-02 M14-61766
SELECTIVE EPITAXIAL DEPOSITION OF GALLIUM ARSENIDE IN HOLES 67-02 M14-61767
PREPARATION OF HOMOGENEOUS HGTE-ZNTE ALLOYS 67-02 M14-61770
REPRODUCIBLE PREPARATION OF SN1-XPBXTE EPITAXIAL FILMS WITH MODERATE CARRIER CONCENTRATIONS 67-02 M14-61823
STRUCTURE OF VERY THIN TANTALUM AND MOLYBDENUM FILMS 67-02 M14-61826
EVAPORATION AND DEPOSITION RATES, STICKING PROBABILITY, AND BACKGROUND PRESSURE DURING THE PRODUCTION OF THIN FILMS IN VACUUM 67-02 M14-61827
GROWING OF SINGLE CRYSTALLINE NICKEL FOILS 67-02 M14-61895
ORIENTATION, PURITY AND PERFECTION OF MOLYBDENUM SINGLE CRYSTALS GROWN BY ELECTRON-BEAM ZONE MELTING 67-02 M14-62083
EPITAXIAL FILMS OF IRON, NICKEL AND COBALT 67-02 M15-62078
WORK HARDENING CAUSED BY INTENSIVE ULTRASONIC TREATMENTS IN SINGLE CRYSTALS 67-02 M17-59911
INFLUENCE OF THE VAPORIZATION METHOD ON THE STRUCTURE AND PROPERTIES OF AL AND CU VACUUM CONDENSATES 67-02 M17-62080
CORROSION AND GROWTH OF SILVER CRYSTALS UNDER HYDROTHERMAL CONDITIONS 67-02 M18-59455
PRODUCTION OF CUPROUS OXIDE SINGLE CRYSTALS BY MELT 67-03 M14-65160
TRANSPORT REACTIONS OF THE SILICIDES AND BORIDES OF TRANSITION METALS 67-03 M14-65184
THE FORMATION OF SINGLE CRYSTAL FILMS OF FCC METALS ON ALKALI HALIDE CLEAVAGE PLANES IN ULTRAHIGH VACUUM 67-03 M14-65381
PREPARATION OF NIO SINGLE CRYSTALS BY CHEMICAL TRANSPORT 67-03 M14-65396
GROWTH MECHANISM OF VAPOR DEPOSITED GERMANIUM FILMS 67-03 M14-65429
INFLUENCE OF SMALL AMOUNTS OF SILVER ON THE RECRYSTALLIZATION OF MOLTEN ZONE ALUMINUM 67-03 M14-65560
SINGLE-CRYSTAL GROWTH ON ALPHA-AL203 SUBSTRATE 67-03 M14-65642
A TECHNIQUE FOR GROWING SINGLE CRYSTALS OF AL-4 PER CENT CU OF A CHOSEN ORIENTATION 67-03 M14-65722
SCANNING ELECTRON MICROSCOPY OF GRAPHITE GROWTH IN IRON AND NICKEL ALLOYS 67-03 M14-65883
LASER DIODES BY SOLUTION REGROWTH ON THE --111-- PLANE 67-03 M14-65896
METHOD FOR PREPARATION OF THIN, ORIENTED GAAS CRYSTALS 67-03 M14-65897
THE BOILING-POINT RELATIONS OF CADMIUM AND ZINC AT ELEVATED PRESSURES 67-03 M15-65208
SOLUBILITY OF ZNSE AND ZNTE IN GA AND IN 67-03 M16-65388
THE PREPARATION AND PROPERTIES OF ZNSIAS2, ZNGEP2 AND CDGEP2 SEMICONDUCTING COMPOUNDS 67-03 M16-65394
PREPARATION OF SEMICONDUCTOR MATERIALS. PT. 3 67-03 M16-65456
A MICRORELIEF OF THE SURFACE OF BE CONDENSATES 67-04 M13-67928
OBTAINING SINGLE CRYSTALS OF IRON ALLOYED WITH SILICON BY THE NONCRUCIBLE ZONAL MELTING METHOD 67-04 M14-66024
APPARATUS FOR GROWING SINGLE CRYSTALS OF UNSTABLE SEMICONDUCTING COMPOUNDS 67-04 M14-66034
GROWING OF CDTE SINGLE CRYSTALS BY STATIC SUBLIMATION UNDER PRESSURE OF ONE COMPONENT 67-04 M14-66038
THE CALCINATION OF TWO BEO POWDERS 67-04 M14-66241
THE GROWTH OF LARGE SINGLE CRYSTAL SHEETS WITH THE --100-- --011-- ORIENTATION FROM ELECTROLYTIC IRON 67-04 M14-66269
PREPARATION OF TITANIUM DISILICIDE SINGLE CRYSTALS 67-04 M14-66343
IDENTIFICATION AND GROWTH TOPOLOGY OF CRYSTALS DEPOSITED IN AN AL-CU-AG ALLOY 67-04 M14-66395
SILICON CONTAMINATION OF GAAS CRYSTALS GROWN IN GLASSY CARBON BOATS 67-04 M14-67000
GA-RICH V-GA COMPOUNDS 67-04 M14-67253
PREPARATION OF INAS AND GAAS SINGLE CRYSTALS 67-04 M14-67441
GROWING CADMIUM SELENIDE SINGLE CRYSTALS FROM MOLTEN ELEMENTS 67-04 M14-67442
PREPARATION OF OXIDE SINGLE CRYSTALS BY FLAME FUSION METHOD 67-04 M14-67579
SYNTHESIS AND ALLOYING OF LEAD TELLURIDE 67-04 M16-66029
PREPARATION OF TUBULAR GERMANIUM CRYSTALS 67-04 M16-66871
THORIA SINGLE CRYSTALS GROWN BY VAPOR DEPOSITION IN

A SOLAR FURNACE 67-05 M14-68286
EPITAXIAL GROWTH OF BETA-SIC BY CARBONIZING SILICON 67-05 M14-68567
IDENTIFICATION AND GROWTH TOPOLOGY OF CRYSTALS DEPOSITED IN AN AL-CU-AG ALLOY 67-05 M14-68594
A P-N JUNCTION IN SILICON WHISKERS GROWN BY VLS METHODS 67-05 M14-68718
THE STRUCTURE AND PERFECTION OF THERMALLY GROWN OXIDE FILMS ON SILICON 67-05 M14-68779
THE ROLE OF TWINNED PLANES IN THE GROWTH OF THICK ELECTROLYTIC DEPOSITS OF NICKEL IN THE --211-- DIRECTION 67-05 M14-69130
THERMAL OXIDATION OF SILICON.. GROWTH MECHANISM AND INTERFACE PROPERTIES 67-05 M18-69778
GROWTH CURVE OF COPPER WHISKERS 67-06 M14-70254
METASTABLE EVAPORATED THIN FILMS OF CU-AG AND CO-AU ALLOYS. PT. 1. OCCURRENCE AND MORPHOLOGY OF PHASES 67-06 M14-70407
CONTROLLED GROWTH OF TIN DENDRITES 67-06 M14-70410
THE DEVELOPMENT OF THE FACE-CENTERED CUBIC INTERFERENCE FUNCTIONS AS CRYSTALS GROW 67-06 M14-70898
THERMAL CONVECTION AND CRYSTAL GROWTH 67-06 M14-71036
THE PREPARATION OF PBTE CRYSTALS 67-06 M14-71141
SOME INTERESTING GROWTH PATTERNS ON VAPOUR-GROWTH CADMIUM SINGLE CRYSTALS 67-06 M14-71201
TECHNIQUES FOR MEASURING THE TWIN SPACING IN DENDRITES AND WEBS OF SEMICONDUCTORS . 67-06 M14-71409
GENERATION OF A TWO-DIMENSIONAL SILICON CARBIDE LATTICE 67-06 M14-71428
MEASUREMENT OF NITRIDE KINETICS ON CHROMIUM BY ELLIPSOMETRY 67-06 M14-71622
PROCESS FOR GROWTH OF SINGLE-CRYSTAL SILICON RIBBON 67-06 M14-71696
THE GROWTH OF LARGE SINGLE CRYSTAL SHEETS WITH THE --100-- --011-- ORIENTATION FROM ELECTROLYTIC IRON 67-06 M14-71733
GROWTH OF CDS FROM LIQUID CD SOLUTION 67-06 M14-72176
DETERMINATION OF MICROSCOPIC RATES OF GROWTH IN SINGLE CRYSTALS 67-06 M14-72181
REACTIVELY SPUTTERED VANADIUM DIOXIDE THIN FILMS 67-06 M14-72199
EXPERIMENTAL EVIDENCE FOR PSEUDOMORPHIC GROWTH OF PLATINUM ON GOLD 67-06 M14-72220
EPITAXIAL DEPOSITION OF GAAS IN AN ARGON ATMOSPHERE 67-06 M16-72180
ON CRYSTAL GROWTH DISTANT FROM PHASE EQUILIBRIUM CONDITIONS 67-07 M13-73855
GROWING MGZN2 SINGLE CRYSTALS FROM THE VAPOR PHASE 67-07 M14-72451
FUNDAMENTAL ASPECTS OF ELECTROCRYSTALLIZATION 67-07 M14-72607
GROWTH OF THE CLOSE-PACKED --111-- PLANE OF GOLD SINGLE CRYSTALS 67-07 M14-72641
GROWTH OF ZNO SINGLE CRYSTALS 67-07 M14-72649
THE PREPARATION AND PROPERTIES OF EPITAXIAL GALLIUM ARSENIDE 67-07 M14-72914
DISTRIBUTION COEFFICIENTS IN GALLIUM ARSENIDE 67-07 M14-72919
RECENT PROGRESS IN THE PREPARATION OF VERY PURE GALLIUM ARSENIDE 67-07 M14-72921
CRYSTAL GROWTH AND ORIENTATION OF VACUUM DEPOSITED FILMS OF CDTE 67-07 M14-73318
GROWTH MECHANISMS AND CRYSTALLINE QUALITY OF DIAMOND TYPE COMPOUNDS AND CRYSTALS IN THE 3-5 AND 2-6 GROUPS 67-07 M14-73926
ON THE PREPARATION, OPTICAL PROPERTIES AND ELECTRICAL BEHAVIOR OF ALUMINIUM NITRIDE 67-07 M15-72837
NEW ASPECTS OF SOLUTION REGROWTH IN THE DEVICE TECHNOLOGY OF GALLIUM ARSENIDE 67-07 M16-72922
SOME KEY FEATURES OF 3-V COMPOUNDS 67-07 M16-74202
PRODUCTION AND PROPERTIES OF MONOCRYSTALS OF HIGH-MELTING METALS AND ALLOYS 67-08 M14-75024
PREPARATION AND SOME PROPERTIES OF SOLID SOLUTIONS CD1-XMGXTE 67-08 M14-75058
DEFECTS IN SILICON CRYSTALS GROWN BY THE VLS TECHNIQUE 67-08 M14-75117
SURFACE CRYSTALLIZATION OF VITREOUS SELENIUM AS INDUCED BY CHEMICAL VAPORS 67-08 M14-75120
THE THEORY OF STABILITY DURING TEMPERATURE GRADIENT ZONE MELTING 67-08 M14-75230
TECHNIQUES FOR THE GROWTH OF LARGE SINGLE CRYSTALS OF POTASSIUM OF HIGH PURITY 67-08 M14-75668
COMPOSITIONAL INHOMOGENEITY OF --BA, PB-- TIO3 CRYSTALS 67-08 M14-75991
IMPROVED METHOD FOR GROWING 2-6 CRYSTALS FROM THE VAPOR PHASE 67-08 M14-75997
GROWTH OF COMPLEX SINGLE-CRYSTAL HEXAGONAL FERRITES 67-08 M14-75998
THIN FILM SEMICONDUCTORS 67-08 M15-75159
RESEARCH INTO THE STRUCTURE AND PROPERTIES OF MOLYBDENUM-NIOBIUM SYSTEM ALLOYS IN THE MONOCRYSTALLINE STATE 67-08 M17-75447
HIGH-PURITY SILICON 67-09 M03-78295
GROWTH AND STRUCTURE OF SILVER FILMS EVAPORATED ON --111-- SI SURFACE 67-09 M14-76483
THE INFLUENCE OF SURFACE-ACTIVE ADDITIONS, SUBJECTED TO THE ACTION OF AN ULTRASONIC FIELD, ON THE GROWTH OF AN ELECTROLYTIC SINGLE CRYSTAL OF SILVER 67-09 M14-76511
METHOD OF OBTAINING HOMOGENEOUS FILMS OF SEMICONDUCTING III-V COMPOUNDS 67-09 M14-76770
EFFECTS OF THE CONDITIONS UNDER WHICH ALUMINUM MONOCRYSTALS GROW OUT OF MOLTEN ALUMINUM ON THEIR DISLOCATIONAL STRUCTURE 67-09 M14-76887
EFFECTS OF COOLING RATE DURING THE SOLIDIFICATION OF SOLID SOLUTIONS ON THE COMPOSITION OF THE AXIAL REGIONS OF DENDRITE BRANCHES 67-09 M14-76888
METHOD FOR DETERMINING MOLECULAR-ATTACHMENT KINETICS DURING CRYSTAL GROWTH. THEORY 67-09 M14-77435
EVIDENCE FOR PSEUDOMORPHIC GROWTH OF IRON ON COPPER 67-09 M14-77517
MULTIPLE DISLOCATION LOOPS OBSERVED IN SILICON CRYSTALS GROWN IN HYDROGEN AMBIENT 67-10 M13-79127
GROWING ORIENTATED STRAIN-FREE BISMUTH SINGLE CRYSTALS OF SPECIALIZED SHAPES 67-10 M14-78673
OBSERVATION OF THE GROWTH PROCESS OF GALLIUM ARSENIDE ON TUNGSTEN 67-10 M14-79024
GROWING CADMIUM SULFIDE CRYSTALS FOR ULTRASONICS AMPLIFICATION 67-10 M14-79248
NUCLEATION OF CRYSTALS IN MULTILAYER METALLIC ADSORBATES 67-10 M14-79409
LOW-ENERGY ELECTRON DIFFRACTION WITH SPHERICAL SHAPED COPPER CRYSTALS 67-10 M14-79555
SURFACE STRUCTURES ON SPHERICAL COPPER CRYSTALS AFTER ADSORPTION OF OXYGEN 67-10 M14-79556
THE PREPARATION OF MONOCRYSTALS OF FE-CR ALLOYS BY CASE HARDENING FE WITH CR. ORIENTATIONS BEFORE AND AFTER TREATMENT 67-10 M14-79706
FORMATION AND GROWTH OF COPPER WHISKERS OBSERVED UNDER THE MICROSCOPE 67-10 M14-80020
CHEMICAL BOND AND STRUCTURE OF THE TERNARY COMPOUND INASTE 67-11 M01-80234
ELECTROCRYSTALLIZATION--A CONCEPT SYNONYMOUS TO ELECTRODEPOSITION 67-11 M12-80697
SILICON STRIP CRYSTALS AND THEIR APPLICATION IN MICROELECTRONICS 67-11 M12-81432
A NEW SYNTHESIS OF 6-METHYL-3-PYRIDINOL 67-11 M14-80705
PRODUCING SINGLE CRYSTALS OF PURE ALUMINUM BY THE STRONG METHOD 67-11 M14-80728
GROWTH OF RUTILE --TIO2-- SINGLE CRYSTALS FROM LI2O-MOO3 FLUX 67-11 M14-80821
TIN WHISKERS AND FILAMENTARY GROWTHS ON A THIN FILM CONDUCTOR IN RESPONSE TO DIRECT-CURRENT FLOW 67-11 M14-80831
PREPARATION OF RESTRICTED-AREA GAAS TUNNEL DIODES 67-11 M14-80835
GROWTH OF NONDENDRITIC SINGLE-CRYSTAL RIBBONS OF GERMANIUM 67-11 M14-80837
CRYSTAL GROWTH AND DEFECT STRUCTURE OF ZINC SULFIDE AND ZINC SELENIDE PLATELETS 67-11 M14-81094
HIGH-ANGLE SUBSTRUCTURE IN ELECTRON BEAM ZONE-MELTED TUNGSTEN 67-11 M14-81356
PREPARATION AND MAGNETIC PROPERTIES OF COBALT DISULFIDE 67-11 M15-81684
INVESTIGATION OF ACICULAR STRUCTURE IN TITANIUM-CONTAINING PERMANENT MAGNETS OF ALNICO 67-12 M13-82229
METHODS OF DETERMINING THE COEFFICIENT OF IMPURITY DISTRIBUTION IN DIRECTIONAL SOLIDIFICATION 67-12 M14-82332
HIGH TEMPERATURE VERNEUIL CRYSTAL GROWTH BY ARC

CRYSTAL GROWTH

MELTING 67-12 M14-82669
PREPARATION OF ZNSEXTE1-X CRYSTALS BY VAPOR TRANSPORT 67-12 M14-82676
KINETICS OF WSI2 GROWTH ON SILICON 67-12 M14-82740
EFFECT OF ULTRASONIC VIBRATIONS OF THE SUBSTRATE ON THE GROWTH OF THIN METAL FILMS 67-12 M14-83015

CRYSTAL GROWTH, ALLOYING EFFECTS
EFFECT OF SMALL ADDITIONS OF SILVER ON THE GROWTH OF GALLIUM CRYSTALS FROM THE MELT 67-02 M14-61927
A NOTE ON THE STRUCTURE AND GROWTH MECHANISM OF SPHEROIDAL GRAPHITE CRYSTALS IN ALLOYS CONTAINING CARBON 67-08 M14-74432

CRYSTAL GROWTH, HEATING EFFECTS
THE INFLUENCE OF ANNEALING ON THE STRUCTURE OF POLYCRYSTALLINE PERMALLOY THIN FILMS 67-11 M14-80608

CRYSTAL GROWTH, IMPURITY EFFECTS
IMPURITY EFFECTS ON HETEROGENEOUS NUCLEATION FROM THE VAPOR.. SELENIUM ON GLASS 67-06 M14-70974
DISTRIBUTION OF IMPURITIES IN THE MELT AND EFFECT OF STIRRING IN GROWTH OF GERMANIUM SINGLE CRYSTALS 67-06 M14-72115
PROBLEMS IN THE DEVELOPMENT AND USE OF SILICON-IRONS, ORIENTED CRYSTAL AND NONORIENTED 67-07 M15-73811
IMPURITY DISTRIBUTION IN SINGLE CRYSTALS. PT. 3. IMPURITY HETEROGENEITIES IN SINGLE CRYSTALS ROTATED DURING PULLING FROM THE MELT 67-09 M14-77896

CRYSTAL GROWTH, PRESSURE EFFECTS
DONOR AND CARRIER DISTRIBUTIONS IN OXYGEN-GROWN GAAS 67-06 M16-71144
GRAIN GROWTH OF ALPHA PLUTONIUM UNDER HYDROSTATIC PRESSURE 67-12 M14-83518

CRYSTAL GROWTH, RADIATION EFFECTS
RADIATION EFFECTS IN URANIUM 67-04 M14-67322

CRYSTAL GROWTH, STRESS EFFECTS
ALUMINA CRYSTAL GROWTH BY SOLID-STATE TECHNIQUES 67-08 M14-76094

CRYSTAL LATTICES
SEE ALSO BODY CENTERED CUBIC LATTICE
FACE CENTERED CUBIC LATTICE
HEXAGONAL LATTICE
MONOCLINIC LATTICE
ORTHORHOMBIC LATTICE
TETRAGONAL LATTICE
STRUCTURE OF METALS THIRD EDITION 67-01 M13-57201
EFFECT OF SLIGHT IMPURITIES ON THE CRYSTAL LATTICE PARAMETER OF IRON 67-01 M13-57362
DETERMINATION OF THE DISPLACEMENT VECTOR AT THE ANTI-PHASE BOUNDARIES IN RUTILE BY CONTRAST EXPERIMENTS IN THE ELECTRON MICROSCOPE 67-01 M13-57568
VACANCY-IMPURITY BINDING ENERGY IN ALUMINUM 67-01 M13-57963
THE BETA-RHOMBOHEDRAL BORON STRUCTURE 67-01 M13-58408
CRYSTAL STRUCTURES AND DENSITIES. PT. 3 67-01 M13-58506
CRYSTAL STRUCTURES AND DENSITIES. INTERMETALLIC PHASES. PT. 3 67-01 M13-58507
THE CRYSTAL STRUCTURES OF THE RARE-EARTH COMPOUNDS OF THE FORM R2NI17, R2CO17 AND R2FE17 67-01 M13-58536
A GAMMA-PHASE IN THE PLUTONIUM-MERCURY SYSTEM 67-01 M13-58537
EFFECT OF CARBON ON THE CRYSTAL LATTICE PARAMETERS OF EPSILON MARTENSITE IN MANGANESE STEELS 67-01 M14-57684
POLYMORPHISM AND POLYTYPISM IN CRYSTALS 67-01 M14-58301
THE LOWER OXIDES OF NIOBIUM 67-01 M14-58535
LATTICE VIBRATIONS OF ALUMINIUM ON THE BASIS OF KREBSS MODEL 67-01 M16-57566
INTERNAL STRESSES IN TENSILE SPECIMENS OF ALUMINUM ALLOYS AND IRON AFTER PLASTIC DEFORMATION 67-01 M17-57292
RELATION BETWEEN THE STRENGTH CHARACTERISTICS OF PURE METALS AND THEIR ATOMIC-BOND PARAMETERS 67-02 M01-61843
EFFECT OF STRAINING CONDITIONS DURING ROLLING ON THE MAGNITUDE OF MICRODISTORTIONS OF THE CRYSTAL LATTICE AND DIMENSIONS OF THE BLOCK STRUCTURE 67-02 M13-58899
VACANCY CONCENTRATIONS IN QUENCHED ALUMINUM 67-02 M13-58967
PERIODIC DISPLACEMENTS OF ATOMS IN CUAU II 67-02 M13-59064
NEUTRON DIFFRACTION ANALYSIS OF A POLYCRYSTALLINE NICHROME ALLOY 67-02 M13-59927
QUENCHING OF EXCESS VACANCIES IN DEFORMED ALLOYS AND ALLOYS SUBJECTED TO THERMOMECHANICAL TREATMENT 67-02 M13-60299
THE STRUCTURE OF HIGH-ANGLE GRAIN BOUNDARIES 67-02 M13-60635
CRYSTAL PERFECTION OF ALPHA-AL2O3 AS A FUNCTION OF GROWTH METHOD 67-02 M14-59488
STRUCTURAL INVESTIGATIONS ON PRECIPITATION AT ROOM AND AT ELEVATED TEMPERATURE. QUANTITATIVE ANALYSIS OF LATTICE DIRECTIONS IN SPHERICAL GUINIER-PRESTON ZONES 67-02 M14-60118
ON THE CRYSTAL LATTICE DEFECTS IN METALLIC FINE PARTICLES 67-02 M14-60143
SINGLE CRYSTALS OF METALS 67-02 M14-60288
PARTICLE WAVES AND DEFORMATION IN CRYSTALLINE SOLIDS 67-02 M17-59076
MEASUREMENTS ON LOCAL VARIATIONS IN SPACING AND ORIENTATION OF THE LATTICE PLANE OF SILICON SINGLE CRYSTALS BY X-RAY DOUBLE-CRYSTAL TOPOGRAPHY 67-03 M13-65158
DEFORMATION AND SURFACE POLYGONIZATION OF IRON CRYSTALS OXIDIZED AT HIGH TEMPERATURES 67-03 M13-65553
VIBRATIONS OF INTERSTITIAL LI PLUS IONS IN SILICON. PT. 1. FORCE CONSTANTS 67-03 M13-65562
VIBRATIONS OF INTERSTITIAL LI PLUS IONS IN SILICON. PT. 2. FREQUENCIES OF LOCALIZED MODES 67-03 M13-65563
LATTICE CONTRACTIONS IN MICROCRYSTALS OF NICKEL-IRON 67-03 M13-65830
ON THE MECHANISM OF LATTICE ELECTROMIGRATION IN METALS 67-03 M14-65227
DYNAMICS OF THE BERYLLIUM LATTICE 67-03 M16-65260
CRYSTAL STRUCTURE OF HIGHER ALUMINUM BORIDES 67-04 M13-66121
STRUCTURE OF CUBIC TUNGSTEN NITRIDE 67-04 M13-66394
BONDING, LATTICE PARAMETER, DENSITY AND DEFECT STRUCTURE OF TIN CONTAINING AN EXCESS OF N 67-04 M13-66537
THE URANIUM-IRON-SILICON SYSTEM. THE NEW PHASE U2FESI3 67-04 M13-67108
MECHANISM OF THE EFFECT OF TEMPERING ON THE CRYSTAL LATTICE PARAMETER OF DISPERSION-HARDENED INVARS 67-04 M13-67652
ELECTRON MICROSCOPIC OBSERVATION OF CROSSED LATTICES IN GOLD CRYSTAL FILMS 67-04 M13-68122
SOME NOTES ON THE PALLADIUM-SILICON SYSTEM 67-04 M13-68156
STRUCTURE, HIGH-TEMPERATURE AND SINTERING BEHAVIOR OF A NEW MODIFICATION OF U3O8 --P-U3O8-- 67-04 M14-66161
PHYSICAL ACOUSTICS, PRINCIPLES AND METHODS. V.3, PT. B. LATTICE DYNAMICS 67-04 M15-66230
THE APPLICATION OF CRYSTAL FIELD THEORY TO THE ELECTRICAL PROPERTIES OF CO IMPURITIES IN GAP 67-04 M16-66757
THE HIGH-TEMPERATURE LATTICE SPACINGS OF SOME R. E. PD3 PHASES. PT. 4 67-05 M13-68219
CRYSTALLINE STRUCTURES 67-05 M13-68989
PREPARATION AND STRUCTURAL DATA OF --TI1-XVX--O2 67-05 M13-69297
ROLE OF PURPOSELY PRODUCED ALTERNATIONS OF CRYSTAL STRUCTURE IN THE MANUFACTURE OF CERAMIC PRODUCTS 67-05 M15-68813
LATTICE INSTABILITY OF HIGH-TRANSITION-TEMPERATURE SUPERCONDUCTORS. PT. 1. POLYCRYSTALLINE A-15 COMPOUNDS 67-05 M16-69516
LATTICE INSTABILITY OF HIGH-TRANSITION-TEMPERATURE SUPERCONDUCTORS. PT. 2. SINGLE-CRYSTAL V3SI RESULTS 67-05 M16-69517
STRUCTURE OF THE TWO NEW INTERMETALLIC PHASES-- SRCU5 AND BAPD5 67-06 M13-70120
THE CRYSTAL STRUCTURE OF MOALB 67-06 M13-70455
DISTORTION IN THE CRYSTAL STRUCTURE OF ALPHA-MN2O3 67-06 M13-71996
AN X-RAY DIFFRACTION STUDY OF THE PHASE TRANSFORMATION TEMPERATURE OF MNO 67-06 M14-71429
POLYMORPHISM IN SOLID MERCURY--A CORRECTION 67-06 M14-72072

PROPERTIES OF WO3 MODIFIED BY THE SUBSTITUTION OF MO AND CR 67-06 M15-70605
NEUTRON DIFFRACTION STUDY OF POLYCRYSTALLINE NICHROME 67-07 M13-72582
THE CRYSTAL STRUCTURE OF SO-CALLED ALPHA LAAL4 --LA3AL11-- 67-07 M13-73436
D88 PHASES OF THE RARE EARTH ELEMENTS WITH TIN AND LEAD 67-07 M13-73437
THE CRYSTAL STRUCTURE OF GD13ZN58 67-07 M13-73438
TERNARY COMPOUNDS WITH A SUPERLATTICE OF THMN12 TYPE IN THE YTTRIUM-TRANSITION METAL-ALUMINUM SYSTEMS 67-07 M13-73480
CRYSTALLINE STRUCTURES OF CERTAIN COMPOUNDS OF RARE-EARTH METALS WITH CADMIUM 67-07 M13-73482
CLOSE-PACKED STRUCTURES 67-07 M13-73669
STRUCTURAL AND CHEMICAL ALTERATIONS OF DELTA FE2O3 AND THEIR EFFECT ON MAGNETIC PROPERTIES 67-07 M15-72824
PROPERTIES AND APPLICATION OF NEW SI MATERIALS WITH CUBICAL TEXTURE 67-07 M15-73812
PROPERTIES OF PURE ALUMINUM 67-08 M01-74802
LOCAL ORDER IN LIQUID ALLOYS 67-08 M13-75340
EXAMPLES OF APPLICATIONS OF LINE BROADENING 67-08 M13-75344
ALKALINE EARTH SILICIDES, GERMANIDES AND STANNIDES WITH CRB STRUCTURE TYPE 67-08 M13-76136
THE REFINEMENT OF THE STRUCTURES OF THE INTERMETALLIC PHASES REAL6 AND TCAL6 67-08 M13-76137
RARE EARTH-GERMANIUM AND -SILICON COMPOUNDS AT 5..4 AND 5..3 COMPOSITIONS 67-08 M13-76139
THIN FILM SEMICONDUCTORS 67-08 M15-75159
FIELD EMISSION OF CHROMIUM, COBALT AND HAFNIUM 67-09 M13-76452
GROWTH AND STRUCTURE OF SILVER FILMS EVAPORATED ON --111-- SI SURFACE 67-09 M14-76483
NUCLEAR QUADRUPOLE COUPLING, KNIGHT SHIFT, AND SPIN-LATTICE RELAXATION TIME IN BERYLLIUM METAL 67-09 M16-77161
DIFFRACTION CONTRAST AT PLANAR INTERFACES OF LARGE COHERENT PRECIPITATES 67-10 M13-78913
INTERPRETATION OF ELECTRON DIFFRACTION PATTERNS 67-10 M13-80003
STUDY OF THE PHYSICAL PROPERTIES OF CR-TE-S, CR-TE-SE AND CR-TE-SB ALLOYS 67-10 M15-79836
ELECTROVALENCE SCHEME FOR SEMICONDUCTING COMPOUNDS OF THE SKUTTERUDITE STRUCTURAL TYPE 67-11 M13-80178
THE LATTICE STABILITY OF THE TRANSITION METALS 67-11 M13-81107
VIEWPOINTS OF STABILITY OF METALLIC STRUCTURES 67-11 M16-81104
DISLOCATION MOBILITY IN COPPER 67-12 M13-82368
THE STRUCTURE AND THERMAL EXPANSION OF SMALL PARTICLES OF COBALT 67-12 M15-83307

CRYSTAL LATTICES, AGING /METALLURGICAL/
A STUDY OF STRAIN AGING IN AUSTENITE 67-02 M17-60639

CRYSTAL LATTICES, DIFFUSION
LATTICE AND GRAIN-BOUNDARY DIFFUSION OF URANIUM IN UO2 67-02 M14-59051
LATTICE AND GRAIN-BOUNDARY DIFFUSION OF URANIUM IN UO2 67-08 M14-74419

CRYSTAL LATTICES, HEATING EFFECTS
ANNEALING BEHAVIOR OF FINE-GRAINED NICKEL ELECTRODEPOSITS 67-07 M14-73452

CRYSTAL LATTICES, IMPURITY EFFECTS
THE EFFECT OF THE OCCLUSION OF HYDROGEN ON THE CHARACTERISTIC TEMPERATURE OF PALLADIUM AND THE VIBRATION AMPLIT DIES OF ITS ATOMS 67-08 M13-74390

CRYSTAL LATTICES, PRESSURE EFFECTS
X-RAY DIFFRACTION STUDIES ON CDTE AT HIGH PRESSURE 67-03 M13-65719

CRYSTAL LATTICES, RADIATION EFFECTS
ENERGY DEPENDENCE OF ANISOTROPY OF DEFECT PRODUCTION IN ELECTRON IRRADIATED DIAMOND-TYPE CRYSTALS. PT. 1. EXPERIMENTAL MEASUREMENTS ON N- AND P-TYPE SILICON 67-01 M16-57944
ENERGY DEPENDENCE OF ANISOTROPY OF DEFECT PRODUCTION IN ELECTRON IRRADIATED DIAMOND-TYPE CRYSTALS. PT. 2. THEORETICAL MODEL 67-01 M16-57945
RADIATION DAMAGE CAUSED BY NEUTRONS IN METALS 67-01 M16-58384
MODULUS EFFECTS IN METALS AFTER LOW TEMPERATURE ELECTRON IRRADIATION. PT. 2. AU 67-02 M17-60628

CRYSTAL LATTICES, STRESS EFFECTS
MECHANISM FOR VISCOUS GRAIN-BOUNDARY SLIDING 67-04 M14-66681
DEFORMATION AND MICROSCOPIC LATTICE STRAINS IN THE POLYCRYSTALLINE METALS --CRYSTAL PLANE DEPENDENCE OF THE PEAK SHIFT OF X-RAY DIFFRACTION LINE IN ELASTICALLY AND PLASTICALLY ANISOTROPIC METALS AFTER TENSILE DEFORMATION-- 67-05 M14-68467
ORIENTATION CHANGES OF SINGLE CRYSTALS OF FACE CENTERED CUBIC METALS ON WIRE DRAWING. PT. 3. DISCUSSION OF THE RESULTS 67-05 M14-69849

CRYSTAL LATTICES, TEMPERATURE EFFECTS
THE CRYSTAL DISTORTION OF VANADIUM 67-04 M13-67482
THE VARIATION WITH TEMPERATURE OF ATOMIC VIBRATION AMPLITUDES IN IRON 67-08 M13-74391

CRYSTAL ORIENTATION
SEE CRYSTAL STRUCTURE

CRYSTAL PULLING
PROPERTIES OF GALLIUM ARSENIDE CRYSTALS PRODUCED BY LIQUID ENCAPSULATION PULLING 67-07 M16-72920
EFFECT OF TEMPERATURE GRADIENTS ON THE FORMS OF GROWTH OF GERMANIUM CRYSTALS 67-09 M14-76847
OBTAINING SINGLE CRYSTALS OF REFRACTORY METALS BY THE CZOCHRALSKI METHOD 67-09 M14-77277
ZONE MELTING OF BERYLLIUM AND PULLING FROM THE MELT 67-11 M03-81157
FURNACE FOR THE PREPARATION OF THE HIGH MELTING POINT METAL SINGLE CRYSTALS 67-11 M14-81514
OBTAINING GERMANIUM CRYSTALS BY A. V. STEPANOVS METHOD 67-11 M14-81635
THE NATURE OF THE SOURCE OF DISLOCATION LOOPS GENERATED BY GOLD DIFFUSION INTO SILICON CRYSTALS 67-12 M13-82674

CRYSTAL PULLING, IMPURITY EFFECTS
DISTRIBUTION OF IMPURITIES IN THE MELT AND EFFECT OF STIRRING IN GROWTH OF GERMANIUM SINGLE CRYSTALS 67-06 M14-72115

CRYSTAL STRUCTURE
SEE ALSO UNIT CELL
STRUCTURE OF METALS THIRD EDITION 67-01 M13-57201
MICROFRACTOGRAPHY OF THIN FILMS 67-01 M13-57555
CRYSTAL STRUCTURE AND SOME CHEMICAL AND PHYSICAL PROPERTIES OF NONMETALLIC INCLUSION IN STEEL 67-01 M13-58310
TETRAGONAL BORON AND BORIDES WITH SIMILAR STRUCTURES 67-01 M13-58409
THE CRYSTAL STRUCTURE OF MO5AS4 67-01 M13-58510
THE CRYSTAL STRUCTURES OF THE RARE-EARTH COMPOUNDS OF THE FORM R2NI17, R2CO17 AND R2FE17 67-01 M13-58536
EPITAXIAL DEPOSITION OF GERMANIUM BY BOTH SPUTTERING AND EVAPORATION 67-01 M14-57106
PHASE TRANSITIONS IN TRANSITION-METAL CHALCOGENIDES 67-01 M14-57442
THE PHASE CHANGE OF ZINC SULPHIDE AND THE STACKING SEQUENCE OF A NEW 66R POLYTYPE 67-01 M14-57479
INTERRUPTED VAPOUR DEPOSITION OF EPITAXIAL GOLD FILMS GROWN INSIDE AN ELECTRON MICROSCOPE 67-01 M14-57565
POLYMORPHISM AND POLYTYPISM IN CRYSTALS 67-01 M14-58301
CRYSTALLOGRAPHIC CHARACTERISTICS OF THE IRON PHOSPHIDE --FE3P-- PRECIPITATE IN FERRITE 67-01 M14-58340
THE STRUCTURE OF SINTERED TUNGSTEN CARBIDE-COBALT ALLOYS 67-01 M14-58341
EFFECT OF CRYSTALLITE SIZE ON COERCIVE FORCE OF THIN FERROMAGNETIC FILMS 67-01 M15-57119
EFFECT OF STRUCTURE ON THE SUPERCONDUCTING PROPERTIES OF EUTECTIC ALLOYS 67-01 M16-57105
CONTINUOUS OBSERVATION OF CELL FORMATION IN ALUMINUM WITH A 500 KV ELECTRON MICROSCOPE 67-02 M13-59062
INVESTIGATION OF THE FINE STRUCTURE IN TWO-PHASE TITANIUM ALLOYS 67-02 M13-59834
SOME CRYSTALLOGRAPHICAL APPLICATIONS OF THE GONIOMICROSCOPE 67-02 M13-60264
THE CRYSTALLOGRAPHIC ORIENTATION RELATIONSHIP BETWEEN MO2C AND FERRITE MATRIX 67-02 M13-60277
ELECTRON DIFFRACTION AT LOW TEMPERATURE. PT. 2.

RADIAL DISTRIBUTION ANALYSIS OF METASTABLE STRUCTURE OF METAL FILMS PREPARED BY LOW TEMPERATURE CONDENSATION 67-02 M13-60514

ELECTRON DIFFRACTION OF LOW TEMPERATURE. PT. 3. RADIAL DISTRIBUTION ANALYSIS OF METASTABLE STRUCTUPE OF METAL FILMS PREPARED BY LOW TEMPERATURE CONDENSATION 67-02 M13-60515

THE PARTIAL STRUCTURE FACTORS OF LIQUID CU-SN 67-02 M13-60808

THE CRYSTAL STRUCTURE OF CEFE7, PRFE7, NDFE7 AND SMFE7 67-02 M13-60888

THE NBCD3 PHASE 67-02 M13-60889

STUDIES ON STRUCTURAL DEFECTS IN WOLFRAM TRIOXIDE., INFLUENCE OF MINOR ADDITIONS OF TANTALA OR NIOBIA 67-02 M13-60923

EFFECT OF CRYSTALLIZATION CONDITIONS ON THE MOSAIC MACRO- AND MICROSTRUCTURE IN METALLIC CRYSTALLITES PREPARED FROM A MELT 67-02 M14-59865

PREPARATION OF HEXAGONAL CADMIUM TELLURIDE FILMS 67-02 M14-61660

HYDRIDE MORPHOLOGY IN STRESSED ZIRCONIUM AND THE INFLUENCE OF SPECIMEN SIZE ON DUCTILITY 67-02 M17-59021

THE ROOM-TEMPERATURE LATTICE SPACINGS OF SOME INTRA RARE-EARTH BINARY SYSTEMS 67-03 M13-65132

ELECTRON DIFFRACTION AT LOW TEMPERATURE 4. AMORPHOUS FILMS OF IRON AND CHROMIUM PREPARED BY LOW TEMPERATURE CONDENSATION 67-03 M13-65157

THE CRYSTALLINE STRUCTURE OF ZNTE THIN FILMS 67-03 M13-65223

MULTIPLE DIFFRACTION EFFECTS IN ANNEALED PERMALLOY FILMS 67-03 M13-65882

A TECHNIQUE FOR GROWING SINGLE CRYSTALS OF AL-4 PER CENT CU OF A CHOSEN ORIENTATION 67-03 M14-65722

LASER DIODES BY SOLUTION REGROWTH ON THE --111-- PLANE 67-03 M14-65896

EVIDENCE FOR A HELICAL CRYSTALLOGRAPHIC TEXTURE IN URANIUM BARS OF MAGNOX CLAD FUEL ELEMENTS 67-03 M16-65854

EFFECT OF THE STRUCTURE OF AN INTERMETALLIC COMPOUND ON THE THERMODYNAMIC PROPERTIES OF METALLIC SYSTEMS 67-04 M13-66013

THE PHENOMENOLOGICAL THEORY OF COMPOSITE MARTENSITE. PT. 1. THE --HHL-- HABIT IN STEELS 67-04 M13-66057

SURFACE STRUCTURE AND CHEMICAL REACTIVITY OF ELECTRODEPOSITED NICKEL 67-04 M13-66270

STRUCTURE OF CUBIC TUNGSTEN NITRIDE 67-04 M13-66394

OBSERVATION OF ELECTRODEPOSITED TUNGSTEN-COBALT ALLOYS UNDER TRANSMISSION ELECTRON MICROSCOPE 67-04 M13-66664

EPITAXY OF TIN ELECTRODEPOSITED ON IRON 67-04 M13-66919

THE EXISTENCE OF A CHROMIUM-MOLYBDENUM A15 STRUCTURE 67-04 M13-67110

NEW HIGH PRESSURE PHASES HAVING THE CORUNDUM STRUCTURE 67-04 M13-67364

THE DEFECT STRUCTURE OF RUTILE CONTAINING SMALL ADDITIONS OF ALUMINIUM OXIDE 67-04 M13-68158

THE GROWTH OF LARGE SINGLE CRYSTAL SHEETS WITH THE --100-- --011-- ORIENTATION FROM ELECTROLYTIC IRON 67-04 M14-66269

IDENTIFICATION AND GROWTH TOPOLOGY OF CRYSTALS DEPOSITED IN AN AL-CU-AG ALLOY 67-04 M14-66395

PHASE AND STRUCTURAL TRANSFORMATIONS IN CARBON STEELS DEFORMED BY IMPACT 67-04 M14-66955

PRODUCTION OF FE-CO ALLOYS IN HIGHLY-DISPERSED STATE AND STUDY OF THEIR CRYSTAL STRUCTURE 67-04 M14-67378

STRUCTURE AND MECHANICAL PROPERTIES OF COPPER VACUUM CONDENSATES 67-04 M14-67382

MAGNETIC PROPERTIES OF THE INTERMETALLIC COMPOUNDS OF COBALT WITH THE RARE EARTH METALS AND YTTRIUM 67-04 M15-66191

THE FORM OF LOCKING DOMAINS INSIDE SILICON IRON CRYSTALS 67-04 M15-67375

VARIATION IN SURFACE ENERGY AS A FUNCTION OF THE CRYSTALLOGRAPHIC ORIENTATION IN SILICON IRON SINGLE CRYSTALS 67-04 M16-67656

ORIENTATION DEPENDENCE OF YIELD STRENGTH IN IRON ALLOY SINGLE CRYSTALS 67-04 M17-67549

EFFECTS OF ADDITION AGENTS IN THE ELECTRODEPOSITION OF NICKEL ON COPPER SINGLE CRYSTAL --100-- SUBSTRATE 67-05 M12-69002

THE RE-EXAMINATION OF A PUBLISHED MICROGRAPH 67-05 M13-68300

STRUCTURE OF CUBIC TUNGSTEN NITRIDE 67-05 M13-68592

INVESTIGATION OF INHOMOGENEITIES IN GAAS BY ELECTRON-BEAM EXCITATION 67-05 M13-68621

FORMS OF GROWTH OF CU WHISKERS AND DETERMINATION OF THEIR CRYSTAL STRUCTURE BY ELECTRON DIFFRACTION 67-05 M13-68645

CRYSTALLINE STRUCTURES 67-05 M13-68989

CRYSTAL STRUCTURE OF SM5GE4 67-05 M13-69090

DESCRIPJION OF A NEW TECHNIQUE FOR THE PREPARATION OF THIN METALLIC FILMS. APPLICATION FOR THE EXAMINATION OF GRAIN ORIENTATION SEAMS BY TRANSMISSION ELECTRON MICROSCOPY 67-05 M13-69134

THE CRYSTAL STRUCTURE OF MO3SB7 67-05 M13-69227

STRUCTURE OF THE TAV2 PHASE 67-05 M13-69238

ANTIPHASE STRUCTURE OF THE ALLOY FE3AL 67-05 M13-69335

EFFECTS OF DOPING ON THE GROWTH RATE AND MORPHOLOGY OF EPITAXIAL GALLIUM ARSENIDE 67-05 M14-68591

CRYSTAL STRUCTURE OF TERBIUM AT 120 TO 300 K 67-05 M14-69025

INVESTIGATION BY MEANS OF THE ELECTRON MICROSCOPE OF PRECIPITATION IN AL-CU SOLID SOLUTIONS. PT. 1. THE STRUCTURE OF QUENCHED AL-CU SOLID SOLUTION 67-05 M14-69125

THE INFLUENCE OF SURFACE ACTIVE INHIBITOR, BOTH INCORPORATED AND ADSORBED, ON THE LATTICE DEFORMATION AND EQUILIBRIUM POTENTIAL OF ELECTROLYTICALLY DEPOSITED CU 67-05 M14-69150

CRYSTAL STRUCTURE OF ZR5SI4 67-05 M14-69850

BLOCK DISORIENTATION AND THE LOW-TEMPERATURE STRENGTH OF ALUMINUM 67-05 M17-68842

THE PLASTICITY OF PURE NIOBIUM SINGLE CRYSTALS 67-05 M17-69465

FORGING AND DRAWING TEXTURES OF MOLYBDENUM WIRE OBTAINED FROM SINGLE CRYSTALS OF VARIOUS ORIENTATIONS 67-06 M13-69983

INVESTIGATIONS OF THE SYSTEMS --MO, W-----FE, CO, NI---B 67-06 M13-70219

THE CO REGION OF THE TERNARY SYSTEM CO-MO-B 67-06 M13-70220

AN X-RAY STUDY OF 99.99 PER CENT AL ANODIC OXIDE FILMS OBTAINED IN H2SO4 AS ELECTROLYTE 67-06 M13-70221

INDICES OF PLANES AND DIRECTIONS IN HCP CRYSTALS 67-06 M13-70428

ON THE SUPERSTRUCTURES OF TA2O5 AND NB2O5 67-06 M13-70985

ELECTRON-DIFFRACTION STUDY OF THE PB2BI2SE5 STRUCTURE 67-06 M13-71186

THE TUNGSTEN BORIDES IN BORON FIBERS 67-06 M13-71620

ON THE TERNARY PHASES UCOAL, UIRAL, AND UNIAL OF THE C22 --FE2P-- TYPE 67-06 M13-71623

NEW TECHNIQUE FOR ORIENTATION OF CRYSTAL FROM LAUE BACK-REFLECTION PHOTOGRAPHS 67-06 M13-71625

LOW-ENERGY ELECTRON DIFFRACTION OBSERVATIONS OF ALPHA-ALUMINA 67-06 M13-71678

DISTORTION IN THE CRYSTAL STRUCTURE OF ALPHA-MN2O3 67-06 M13-71996

EXPLANATION OF THE CONTRAST DIFFERENCES OF AMORPHOUS AND CRYSTALLINE OBJECTS IN ELECTRON MICROSCOPY 67-06 M13-72144

CRYSTAL STRUCTURAL RELATIONSHIPS BETWEEN AUSTENITE AND CARBIDE PHASES IN AGED, AUSTENITIC STEEL 67-06 M13-72348

MORPHOLOGY OF CELLULAR PRECIPITATION OF TIN FROM LEAD-TIN BICRYSTALS 67-06 M14-70425

PREFERRED ORIENTATION AND DOMAIN STRUCTURE OF IRON FILMS DEPOSITED ON --100-- COPPER SUBSTRATES 67-06 M14-70992

THE STRUCTURE OF SILVER FILMS DEPOSITED ON MICA SUBSTRATES IN ULTRAHIGH VACUUM 67-06 M14-71023

HIGH-MOBILITY PBS AND CDS FILMS DEPOSITED UNDER ULTRAHIGH VACUUM EQUILIBRIUM CONDITIONS 67-06 M14-71140

ANOMALOUS TRANSMISSION IN STRAINED DUCTILE AND BRITTLE CRYSTALS BY THE DIVERGENT X-RAY BEAM METHOD 67-06 M14-71283

SUBSTRUCTURE MEASUREMENTS BY STATISTICAL FLUCTURATIONS IN X-RAY DIFFRACTION INTENSITY 67-06 M14-71424

CLUSTERING OF CARBON ATOMS IN ALPHA-IRON

67-06 M14-71963
POLYMORPHISM IN SOLID MERCURY--A CORRECTION
67-06 M14-72072
LEED MEASUREMENT OF H2S AND H2SE ADSORPTION ON GERMANIUM --111--
67-06 M15-71028
STRUCTURES OF NEW RARE-EARTH COMPOUNDS. PT. 2
67-07 M13-72449
BONDING AS REVEALED BY CRYSTAL MORPHOLOGY
67-07 M13-73665
CLOSE-PACKED STRUCTURES
67-07 M13-73669
MISCELLANEOUS STRUCTURES OF FIXED STOICHIOMETRY
67-07 M13-73673
A LOW ENERGY ELECTRON DIFFRACTION STUDY OF THE --100--, --110-- AND --111-- SURFACE OF GOLD
67-07 M13-73917
THE CRYSTAL STRUCTURE OF TANI3 AND ITS CHANGE ON COLD WORKING
67-07 M13-73922
THE STRUCTURE OF ELECTRODEPOSITS AND CATALYSTS EXAMINED BY X-RAY DIFFRACTION TECHNIQUES
67-07 M13-74220
FEATURES OF THE STRUCTURAL RECRYSTALLIZATION OF STEEL ON HEATING
67-07 M14-72590
LARGE AREA SILICON JUNCTIONS BY EPITAXIAL GROWTH TECHNIQUE
67-07 M14-73461
INVESTIGATION OF STRUCTURE AND ORIENTATION OF BORIDE COATINGS DEPOSITED ON IRON
67-07 M14-74185
TRANSFORMATIONS AND STRUCTURES IN THE URANIUM-RHENIUM SYSTEM. PT. 1. METASTABLE ALPHA PRIME, ALPHA DOUBLE PRIME AND GAMMA STRUCTURES
67-07 M14-74229
TEXTURE-ELECTRICAL-PROPERTY CORRELATIONS IN ORIENTED SILICON STEEL
67-07 M15-73518
DEPENDENCE OF MAGNETIC ANISOTROPY ON THE CRYSTAL STRUCTURE OF NI-FE THIN FILMS
67-07 M15-73576
FERROMAGNETIC RESONANCE IN EVAPORATED THIN FILM OF MNSB
67-07 M15-73987
A DEVICE FOR THE CONTINUOUS DETERMINATION OF THE CRYSTALLOGRAPHIC ORIENTATION OF FILIFORM SINGLE CRYSTALS
67-07 M19-73894
STUDY OF LONG PERIOD ORDERED ALLOYS BY X-RAY DIFFRACTION
67-08 M13-74415
A HANDBOOK OF LATTICE SPACINGS AND STRUCTURES OF METALS AND ALLOYS. V 2
67-08 M13-74600
X-RAY DIFFRACTION
67-08 M13-74691
THE CHARACTERIZATION OF SOLID THIN FILMS BY ELECTRON MICROSCOPY AND DIFFRACTION
67-08 M13-74707
THE CRYSTAL STRUCTURES OF RARE-EARTH MONOSILICIDES
67-08 M13-74783
SOME C11 B-TYPE COMPOUNDS OF SC, Y AND THE LANTHANIDES WITH CU, AG AND AU
67-08 M13-74784
PHASE DIAGRAMS
67-08 M13-74812
EPITAXIAL GROWTH OF FACE CENTERED CUBIC METALS ON ALKALIHALIDE CRYSTALS CLEAVED IN VACUUM
67-08 M14-74413
TERNARY CARBIDE EUTECTIC IN FE-C-SI ALLOYS
67-08 M14-75893
RECOVERY OF BENT COPPER WHISKERS
67-08 M14-76219
THERMOMAGNETIC EFFECTS IN ANISOTROPIC MEDIA
67-08 M15-75224
OXIDATION OF THIN FILMS OF IRON
67-08 M18-76227
THE CRYSTAL STRUCTURES OF CR11GE19, MO13GE23 AND V17GE31
67-09 M13-76451
THE CRYSTAL STRUCTURE OF THE RHOMBOHEDRAL MODIFICATION OF THE COMPOUND YAL3
67-09 M13-76825
COMPOUNDS OF EUNI5, TMNI5 AND LUNI5 AND THEIR CRYSTALLINE STRUCTURES
67-09 M13-76826
THE CRYSTAL STRUCTURES OF COMPOUNDS IN THE SCANDIUM-ZINC SYSTEM
67-09 M13-76938
RESEARCH INTO THE CRYSTAL STRUCTURE OF THE METASTABLE PHASES IN TICONAL ALLOY
67-09 M13-76945
THE CRYSTAL STRUCTURES OF RH10GA17 AND IR3GA5
67-09 M13-77301
THE CRYSTAL STRUCTURE OF TI3SIC2--A NEW COMPLEX CARBIDE
67-09 M13-77515
CRYSTAL STRUCTURE OF RHHG2
67-09 M13-77571
CRYSTAL STRUCTURE-GROUP NUMBER CORRELATION IN THE FIFTH- AND SIXTH-PERIOD LATTICE TRANSITION METALS AND ALLOYS
67-09 M13-77723
EFFECT OF THE CONCENTRATION OF SI ON THE SUBSTRUCTURE OF AL MONOCRYSTALS
67-09 M13-77753
MECHANISMS OF THE FORMATION OF EPITAXIAL STRUCTURES IN COPPER CONDENSATES
67-09 M13-77778
THE CRYSTAL STRUCTURE OF BISMUTH-2 AT 26 KBAR
67-09 M13-77968
SOME NEW E-PHASES
67-09 M13-78111
PHASES WITH DIAMOND SUBSTRUCTURE IN TERNARY BERYLLIUM ALLOYS
67-09 M13-78272
METHOD OF OBTAINING HOMOGENEOUS FILMS OF SEMICONDUCTING III-V COMPOUNDS
67-09 M14-76770
ON THE FORMATION OF POLYMORPHIC OXIDE ON TITANIUM SURFACE
67-09 M18-77808
INVESTIGATION ON NOBLE METAL-HIGH ELECTROPOSITIVE ELEMENT ALLOYS--LIPD COMPOUNDS
67-10 M13-78337
THE CRYSTAL STRUCTURE OF PU2ZN9
67-10 M13-78561
CORRELATED STRUCTURE IN EVAPORATED CERMET FILMS
67-10 M13-79169
COMPOUNDS OF THE TYPE R--X PRIME, X DOUBLE PRIME--2 IN SYSTEMS WITH R EQUALS TI, ZR, HF, X PRIME EQUALS FE, CO, NI, CU, AND X DOUBLE PRIME EQUALS AL, GA AND THEIR CRYSTAL STRUCTURES
67-10 M13-79243
INVESTIGATION OF THE STRUCTURE OF THIN FILMS OF LOW-TEMPERATURE PYROLYTIC GRAPHITE BY ELECTRON DIFFRACTION
67-10 M13-79244
NEW PEROWSKIT-CARBIDES
67-10 M13-79582
THE CRYSTAL STRUCTURE OF THE SUBCARBIDES OF TRANSITION METALS
67-10 M13-79922
ALLOY PHASES IN W-RE AND MO-RE ALLOYS AT LOW TEMPERATURE
67-10 M14-78674
MODERN VERY HIGH-PRESSURE RESEARCH
67-10 M14-79334
DETERMINATION OF THE COMPOSITION OF THE ADSORPTION LAYER OF S ON CU --111--
67-10 M14-79897
CRYSTAL STRUCTURE AND MAGNETIC PROPERTIES OF SOME RARE EARTH GERMANIDES
67-10 M15-79009
LATTICE DYNAMICS OF POINT DEFECTS
67-10 M16-78311
THE CHEMISTRY OF THE ACTINIDES
67-10 M16-79435
COMPLEX NITRIDE IN CR-NI-NB STEELS
67-10 M19-79775
EFFECTS OF TRACE IMPURITIES ON X-RAY DIFFRACTION
67-11 M13-80135
GROWTH AND STRUCTURE OF GE THIN FILMS PRODUCED BY THE METHOD OF FOIL CRYSTALLIZATION
67-11 M13-80226
CRYSTAL STRUCTURE OF THIN GE FILMS PRODUCED BY CRYSTALLIZATION METHOD
67-11 M13-80227
ULTRASONIC MEASUREMENTS OF DEFORMED AND ANNEALED MILL PRODUCTS
67-11 M13-80347
CRYSTALLOGRAPHIC RELATIONSHIPS BETWEEN THE ROLLING AND THE RECRYSTALLIZATION TEXTURES OF ALUMINIUM
67-11 M13-80378
REFINEMENT OF A TH2NI17-TYPE STRUCTURE, CEMG1.03
67-11 M13-80491
AN X-RAY DIFFRACTION STUDY OF RUBIDIUM CHLORIDE
67-11 M13-80605
STRUCTURE INVESTIGATIONS OF TWO URANIUM NITRIDES U2N3 PLUS X
67-11 M13-80624
CRYSTAL STRUCTURE OF DYSPROSIUM AT 77 TO 300 K
67-11 M13-80787
THE STRUCTURE OF LIQUID HG
67-11 M13-80805
TRANSMISSION ELECTRON MICROSCOPE STUDY OF THE STRUCTURE OF HIGH TEMPERATURE BETA-PHASE IN CU-SN ALLOY
67-11 M13-80809
AN X-RAY STUDY ON THE STRUCTURE OF THE TERNARY AU-CU-ZN MARTENSITE
67-11 M13-80810
FINE FAULTS AND CRYSTAL STRUCTURES OF PRECIPITATES IN FE-MO AND FE-W ALLOYS
67-11 M13-80811
LAYER STRUCTURE OF CODEPOSITED MN-AL ALLOY FILM
67-11 M13-80819
PHASE STABILITY AND CRYSTAL CHEMISTRY OF COMPLEX COMPOUNDS CONTAINING TRANSITION ELEMENTS AND NONMETALS
67-11 M13-81117
THE CRYSTALLOGRAPHY OF THE PRESSURE INDUCED PHASE TRANSFORMATIONS IN IRON ALLOYS
67-11 M13-81594
CRYSTALLOGRAPHIC STUDIES OF SOME MIXED MANGANITE SPINELS
67-11 M13-81678
LOW TEMPERATURE FAR INFRARED SPECTRA OF SIO2 POLYMORPHS
67-11 M13-81685
NEW PHASES IN THE VANADIUM-IRIDIUM SYSTEM AND A TENTATIVE CONSTITUTION DIAGRAM
67-11 M14-80311
INFLUENCE OF TYPE OF PLASTIC STRAIN ON THE SECONDARY RECRYSTALLIZATION TEXTURE OF FE-3 PER CENT SI ALLOY
67-11 M14-80732

CRYSTAL STRUCTURE

URANIUM CARBIDES, NITRIDES, PHOSPHIDES AND SULFIDES 67-11 M16-80463
FACTORS AFFECTING THE STABILITY OF METALLIC PHASES 67-11 M16-81102
SPACE LIMITATIONS ON THE GEOMETRY OF THE CRYSTAL STRUCTURES OF METALS AND INTERMETALLIC COMPOUNDS 67-11 M16-81106
ELECTRONIC STRUCTURE OF ALLOYS OF 3D TRANSITION METALS WITH ALUMINUM 67-11 M16-81108
THE CRYSTAL CHEMISTRY OF SELECTED AB2 RARE EARTH COMPOUNDS WITH SELENIUM, TELLURIUM, AND ANTIMONY 67-12 M13-81736
THE CRYSTAL STRUCTURE OF THE LAVES PHASE IN MG-ZN-AG-SYSTEM. PT. 1 67-12 M13-81768
PHASE COMPOSITION OF ALUMINUM-RICH WELDS ALLOYED WITH RARE EARTH METALS 67-12 M13-81921
STRUCTURAL CHANGES IN AL-MG AND AL-MG-ZN ALLOYS DURING AGEING AND THEIR EFFECT ON THE MECHANICAL PROPERTIES OF THE ALLOYS 67-12 M13-82118
ON THE CRYSTAL STRUCTURE OF ALPHA- AND KAPPA PRIME-MARTENSITE OF HIGH-CARBON STEEL 67-12 M13-82335
OXYCARBIDES OF LANTHANIDES 67-12 M13-82448
FIELD-ION MICROSCOPY OF TITANIUM CARBIDE 67-12 M13-82552
STRUCTURE OF AN ADSORBED SULFUR LAYER ON THE --100-- FACE OF COPPER 67-12 M13-82591
THE CRYSTALLOGRAPHY OF THE REVERSE MARTENSITIC TRANSFORMATION IN AN IRON-NICKEL ALLOY 67-12 M13-82761
CRYSTALLOGRAPHIC STUDY OF THE VO2.33--V3O7-- PHASE 67-12 M13-83154
THE MORPHOLOGY AND MORPHOLOGICAL STABILITY OF LARGE PRECIPITATES FORMED IN CUZN AND CUZN SN 67-12 M14-82759
THE RESISTANCE AND CRYSTAL STRUCTURE OF CERIUM AS DETERMINED BY TEMPERATURE CYCLING 67-12 M15-82289
INVESTIGATION OF THE STRUCTURE AND CERTAIN ELECTRICAL CHARACTERISTICS OF CHROMOSILICON FILMS DURING HEAT TREATMENT 67-12 M15-82794
FERRITES 67-12 M15-82898

CRYSTAL STRUCTURE, ALLOYING EFFECTS
CHARACTERISTICS OF PLASTIC DEFORMATION OF INDIUM AND ITS ALLOYS 67-02 M17-62086
EFFECT OF SMALL ADDITIONS OF PHOSPHORUS ON THE STRENGTHENING AND STACKING FAULT DENSITY OF COPPER-ALUMINIUM ALLOYS 67-05 M14-68253

CRYSTAL STRUCTURE, COOLING EFFECTS
ON THE CRYSTAL STRUCTURE OF QUENCHED STEEL 67-04 M14-67383

CRYSTAL STRUCTURE, HEATING EFFECTS
EFFECTS OF MECHANICAL AND THERMAL TREATMENT ON THE STRUCTURE AND MAGNETIC TRANSITIONS IN FERH 67-07 M15-73549
SUBSTRUCTURE OF COPPER VACUUM CONDENSATES AFTER AGING AND ANNEALING 67-09 M13-77772
THE INFLUENCE OF ANNEALING ON THE STRUCTURE OF POLYCRYSTALLINE PERMALLOY THIN FILMS 67-11 M14-80608

CRYSTAL STRUCTURE, IMPURITY EFFECTS
ORIENTATION, PURITY AND PERFECTION OF MOLYBDENUM SINGLE CRYSTALS GROWN BY ELECTRON-BEAM ZONE MELTING 67-02 M14-62083

CRYSTAL STRUCTURE, PRESSURE EFFECTS
PHASE TRANSITIONS IN TEO4 AT HIGH PRESSURES 67-06 M14-70049
EFFECT OF PRESSURE ON THE ELASTIC PARAMETERS AND STRUCTURE OF CDS 67-09 M17-77172
PHASE TRANSITION IN GERMANIUM TELLURIDE AT HIGH PRESSURES 67-10 M13-79544

CRYSTAL STRUCTURE, RADIATION EFFECTS
RADIATION DAMAGE CAUSED BY NEUTRONS IN METALS 67-01 M16-58384

CRYSTAL STRUCTURE, STRESS EFFECTS
INFLUENCE OF ULTRASOUND ON THE STRUCTURE OF ALLOYS 67-06 M14-70055
INTERCRYSTALLITE STRUCTURE OF FE-CO ALLOYS AT HIGH DEGREES OF DEFORMATION 67-09 M13-77865
EFFECT OF ULTRASONIC VIBRATIONS ON THE STRUCTURES OF ALLOYS 67-10 M14-78801

CRYSTAL STRUCTURE, TEMPERATURE EFFECTS
THE CRYSTAL DISTORTION OF VANADIUM 67-04 M13-67482
GROWTH TEXTURES IN BERYLLIUM CONDENSATES 67-04 M14-66499

CRYSTAL STRUCTURE /METALLOGRAPHIC/
SEE GRAIN STRUCTURE

CRYSTALLINITY
SEE CRYSTAL STRUCTURE

CRYSTALLITES
SEE CRYSTALS

CRYSTALLIZATION
SEE ALSO FRACTIONAL CRYSTALLIZATION
RECRYSTALLIZATION /METALLURGICAL/
SECONDARY RECRYSTALLIZATION
EFFECT OF CRYSTALLIZATION CONDITIONS ON THE POSITION OF TRANSITION LINES IN THE CRYOLITE-ALUMINA SYSTEM 67-01 M03-58197
PRODUCTION OF PURE BORON IN THE ALPHA AND BETA RHOMBOHEDRAL FORMS 67-01 M03-58377
ON THE CRYSTALLIZATION OF THE WELD MOLTEN POOL AND CALCULATION OF RATE 67-01 M11-58202
AUTOMATIC SUBMERGED ARC WELDING OF O6N3 COLD-RESISTANT STEEL 67-01 M11-58203
INVESTIGATION OF THE HEAT OF CRYSTALLIZATION OF MOLTEN PIG IRONS 67-01 M14-57131
EFFECT OF ULTRASONICS ON THE CRYSTALLIZATION OF METALS AND ALLOYS IN THE SOLIDIFICATION PERIOD AND CHANGES IN STRUCTURE IN THE SOLID STATE 67-01 M14-57157
INDIUM SELENIDE IN2SE3 67-01 M14-57646
CRYSTALLIZATION OF INDIUM PHOSPHIDE FROM THE GASEOUS PHASE 67-01 M14-57655
STEEL SOLIDIFICATION AND INGOT STRUCTURE 67-02 M04-60284
X-RAY-DIFFRACTOMETRIC PLOTTING OF KINETIC CRYSTALLIZATION CURVES ON AN EXAMPLE OF SELENIUM AND ANALYSIS OF THE CURVES 67-02 M14-59864
EFFECT OF CRYSTALLIZATION CONDITIONS ON THE MOSAIC MACRO- AND MICROSTRUCTURE IN METALLIC CRYSTALLITES PREPARED FROM A MELT 67-02 M14-59865
PRECIPITATION OF SULFUR IMPURITIES FROM A NI-C MELT IN THE RECRYSTALLIZATION PERIOD 67-02 M14-59866
CRYSTALLIZATION PROPERTIES OF URAL BLAST FURNACE SLAGS 67-02 M14-59876
A STRAIN-ANNEAL METHOD OF GROWING CRYSTALS OF ALPHA-URANIUM 67-02 M14-6129o
EFFECT OF RARE-EARTH METALS ON THE CRYSTALLIZATION OF STEEL 67-02 M15-59179
ON THE COEFFICIENT OF EXTRACTION OF IMPURITIES INTO CONCENTRATE DURING NORMAL ORIENTED CRYSTALLIZATION 67-03 M03-65589
KINETICS OF ISOTHERMAL CRYSTALLIZATION OF CHROMIUM PIG IRONS 67-04 M14-66007
STUDY OF CONDITIONS OF ZONE RECRYSTALLIZATION OF MG 67-05 M03-68963
CRYSTALLIZATION OF MOLTEN POOL IN WELDING LIGHT-GAGE METALS 67-05 M11-69405
MELTING AND RECRYSTALLIZATION OF WELDED SPOT PRODUCED BY PULSATION ARC WELDING 67-06 M11-72306
INVESTIGATION OF SOME PROPERTIES OF ALLOYS PRODUCED IN ULTRASONIC FIELD 67-06 M14-70061
EFFECT OF ULTRASONIC VIBRATION ON THE PROCESS OF CRYSTALLIZATION 67-06 M14-70062
INITIAL STAGES OF THE CRYSTALLIZATION OF SELENIUM SPHERULITES AND THE MECHANISM OF THEIR FORMATION 67-06 M14-70519
EFFECT OF SOME FACTORS ON THE MAGNITUDE AND DISTRIBUTION OF INTERNAL RESIDUAL STRESSES DURING THE CRYSTALLIZATION OF GERMANIUM SINGLE CRYSTALS 67-06 M14-70743
DEFECT CHARACTERIZATION IN THE PRECIPITATION FROM CAO..YB2O3 CRYSTALLINE SOLUTIONS 67-06 M14-71166
THE EFFECT OF OTHER METALLIC IONS ON THE ELECTROCRYSTALLIZATION OF SILVER FROM NITRATE SOLUTIONS 67-06 M14-71383
ROASTING AND RECRYSTALLIZATION OF MAGNESIUM OXIDE 67-07 M05-72616
FUNDAMENTAL ASPECTS OF ELECTROCRYSTALLIZATION 67-07 M14-72607
THE CRYSTALLIZATION PRESSURE FACTOR IN THE PRESHRINKAGE EXPANSION OF CASTINGS 67-08 M14-74550
CALCULATING THE VOLUME OF CRYSTALLISED METAL 67-08 M19-74551
THE RELATION BETWEEN THE LATTICE DEFORMATIONS AND CRYSTAL ORIENTATION IN ELECTROLYTICALLY DEPOSITED POLYCRYSTALLINE NICKEL LAYERS 67-09 M14-76798
IMPROVED CRYSTALLIZATION OF PURE ANTIMONY 67-09 M14-76805
CONDITIONS FOR CRYSTALLIZATION OF INTERMEDIATE PHASES IN THE CD-SB SYSTEM 67-09 M14-76846

INVESTIGATION OF THE LIQUID-SOLID PHASE TRANSFORMATION 67-09 M14-77005
PRIMARY CRYSTALLIZATION OF THE MOLTEN METAL POOL WHEN WELDING THIN METAL 67-10 M11-78509
SOME PROPERTIES OF ALLOYS RESULTING FROM ULTRASONIC VIBRATIONS 67-10 M14-78807
INFLUENCE OF ULTRASONIC VIBRATIONS ON THE PROCESS OF CRYSTALLIZATION 67-10 M14-78808
CRYSTALLIZATION FRONT IN ELECTRIC-ARC ZONE MELTING 67-10 M14-79631
KINETICS OF ISOTHERMAL CRYSTALLIZATION OF CHROMIUM ALLOYED CAST IRONS 67-10 M14-79668
ON THE KINETICS OF CRYSTALLIZATION OF SODIUM ALUMINATE 67-10 M14-80057
INFLUENCE OF RARE-EARTH METALS ON THE CRYSTALLIZATION OF STEEL 67-10 M15-78888
APPARATUS FOR EVAPORATION AND CRYSTALLIZATION OF ALUMINATE SOLUTIONS AND SEPARATION OF CRYSTALS 67-11 M03-81220
THE MELTING AND SOLIDIFICATION OF PULSED ARC SPOT WELDS 67-11 M11-81578
ELECTROCRYSTALLIZATION--A CONCEPT SYNONYMOUS TO ELECTRODEPOSITION 67-11 M12-80697
CHANGE IN SOLIDIFICATION PARAMETERS OF STEEL INGOTS AND THEIR CONNECTION WITH CHEMICAL HETEROGENEITY 67-11 M14-81411
THE EFFECT OF FERROUS AND MANGANOUS OXIDES ON THE CRYSTALLIZATION PROPERTIES OF BLAST-FURNACE SLAGS IN CONNECTION WITH THEIR SWELLING 67-11 M14-81513
ELECTRICAL MODEL OF STEEL INGOT SOLIDIFICATION AND HEATING PROCESSES 67-12 M04-83472
ON THE CONCENTRATION DEPENDENCE OF THE DISTRIBUTION COEFFICIENTS DURING DIRECTIONAL CRYSTALLISATION 67-12 M13-82148
EQUILIBRIUM DIAGRAM AT 60 C. OF THE FE2O3-AS2O5-H2O SYSTEM AND A RADIOCRYSTALLOGRAPHIC STUDY OF THE ARSENATES, FE2O3-3AS2O5-8H2O AND AL2O3-3AS2O5-8H2O 67-12 M13-82512
RARE EARTH COBALT COMPOUNDS WITH THE AB3 STRUCTURE 67-12 M13-82967
FEATURES IN EUTECTIC CRYSTALLIZATION IN THE METASTABLE FE-FE3C-SI SYSTEM AND IN LIQUATION OF SI IN WHITE CAST IRON 67-12 M14-81974
INFLUENCE OF ELASTIC VIBRATION ON THE SOLIDIFICATION OF METALS AND ALLOYS 67-12 M14-82114
OBSERVATIONS OF MARTENSITE IN TERNARY CU-ZN BASED BETA-PHASE ALLOYS 67-12 M14-82980

CRYSTALLIZATION, ALLOYING EFFECTS
THE EFFECT OF CAPILLARINACTIVE ADDITIVES UPON THE CRYSTALLIZATION OF FUSED METALS 67-07 M14-72423
EFFECT OF ARSENIC ON THE PRIMARY CRYSTALLIZATION OF MAGNESIUM CAST IRON 67-12 M06-81975
SOLIDIFICATION OF THE ALUMINIUM SILICON ALLOYS AND THE EFFECT OF ADDITION ELEMENTS. PT. 2 67-12 M14-81966

CRYSTALLIZATION, CASTING
ACICULAR CRYSTALLIZATION IN CONTINUOUS CAST ALUMINUM 67-08 M13-75216

CRYSTALLIZATION, IMPURITY EFFECTS
A STUDY OF THE TWO PURITY CRITERIA OF ZIRCONIUM 67-10 M13-79875

CRYSTALLIZATION, STRESS EFFECTS
THE EFFECT OF ULTRASOUND ON THE CRYSTALLIZATION OF METALS AND ALLOYS DURING SOLIDIFICATION AND STRUCTURAL VARIATIONS TAKING PLACE IN THE SOLID STATE 67-06 M14-71112

CRYSTALLIZATION, WELDING EFFECTS
INFLUENCE OF FERRITE ON CRYSTALLIZATION OF AUSTENITIC DEPOSIT WELDED METAL AND FORMATION OF HOT CRACKS 67-06 M11-71641
INFLUENCE OF FERRITE ON THE CRYSTALLISATION OF AUSTENITIC WELD METAL AND THE FORMATION OF HOT CRACKS DURING WELDING 67-10 M11-79608

CRYSTALLOGRAPHY
CHANGE IN MOSAIC STRUCTURE ASSOCIATED WITH THE DISTRIBUTION OF IMPURITIES IN GROWING SINGLE CRYSTALS AND BICRYSTALS FROM THE MELT 67-01 M14-57102
CRYSTALLOGRAPHIC CHARACTERISTICS OF THE IRON PHOSPHIDE --FE3P-- PRECIPITATE IN FERRITE 67-01 M14-58340
SOME CRYSTALLOGRAPHICAL APPLICATIONS OF THE GONIOMICROSCOPE 67-02 M13-60264
OPTICAL REFLECTIONS AS AN AID IN THE DETERMINATION OF ORIENTATION IN METALLIC CRYSTALS 67-02 M14-60025
THE CRYSTALLOGRAPHIC ANALYSIS OF GRAIN-BOUNDARY PRECIPITATION 67-02 M14-60631
CRYSTALLOGRAPHY OF SIP AND SIAS SINGLE CRYSTALS AND OF SIP PRECIPITATES IN SI 67-03 M13-65872
ON THE RADIOCRYSTALLOGRAPHIC METHOD OF DETERMINATION OF RESIDUAL AUSTENITE IN QUENCHED STEELS 67-05 M13-69115
UNSTABLE DISLOCATIONS IN ANISOTROPIC CRYSTALS 67-05 M14-69777
CRYSTALLOGRAPHIC COMPLEXITIES IN THE AL-CU SYSTEM 67-06 M14-72232
REPLY TO CRYSTALLOGRAPHIC COMPLEXITIES IN THE AL-CU SYSTEM 67-06 M14-72233
REPLY TO COMMENTS ON CRYSTALLOGRAPHIC COMPLEXITIES IN THE AL-CU SYSTEM 67-06 M14-72234
STRUCTURE, CONDUCTIVITY AND HALL EFFECT OF ELECTRON BOMBARDMENT EVAPORATED SILICON FILMS ON SAPPHIRE 67-06 M15-72001
THE DETERMINATION OF THE ORIENTATION OF MICROCRYSTALS USING A BACK-REFLECTION KOSSEL TECHNIQUE AND AN ELECTRON PROBE MICROANALYZER 67-07 M13-72943
THE CRYSTALLOGRAPHY OF BERYLLIUM SHEET 67-07 M13-73757
THE DETERMINATION OF CRYSTALLOGRAPHIC STRUCTURES ON ELECTRON TRANSMISSION MICROGRAPHS 67-07 M13-73851
PYRAMID FORMATION IN EPITAXIAL GALLIUM ARSENIDE LAYERS 67-07 M14-72917
CRYSTAL GROWTH AND ORIENTATION OF VACUUM DEPOSITED FILMS OF CDTE 67-07 M14-73318
ON THE MORPHOLOGY AND POLARITY OF THE ZNO CRYSTAL 67-07 M14-73323
GROWTH MECHANISMS AND CRYSTALLINE QUALITY OF DIAMOND TYPE COMPOUNDS AND CRYSTALS IN THE 3-5 AND 2-6 GROUPS 67-07 M14-73926
A DEVICE FOR THE CONTINUOUS DETERMINATION OF THE CRYSTALLOGRAPHIC ORIENTATION OF FILIFORM SINGLE CRYSTALS 67-07 M19-73894
X-RAY AND ELECTRON DIFFRACTION 67-08 M13-74813
EVOLUTION OF FOLDS DURING HOT TENSILE STRESSING OF LARGE AL CRYSTALS 67-08 M13-76218
RECOVERY OF BENT COPPER WHISKERS 67-08 M14-76219
ELECTROLUMINESCENCE AND CRYSTALLOGRAPHIC POLARITY OF GALLIUM ANTIMONIDE 67-08 M16-74609
THE CRYSTALLOGRAPHIC ORIENTATION DEPENDENCE OF SNOEK-TYPE INTERNAL FRICTION PEAKS OF AN FE-SI ALLOY 67-08 M17-75935
THE CRYSTAL STRUCTURE OF HEXAGONAL RH2AL3 67-09 M13-76383
CRYSTALLOGRAPHY OF BA3UFE2O9 AND SR3UFE2O9 COMPOUNDS 67-09 M13-76468
EFFECT OF CRYSTALLOGRAPHIC ORIENTATION ON ETCHING PROPERTIES OF METAL SINGLE CRYSTALS-- COPPER 67-09 M13-78268
METALS REFERENCE BOOK. V. 1 67-10 M01-79102
COURSE OF THE MARTENSITE-AUSTENITE RETRANSFORMATION IN A FE-NI ALLOY WITH 32.5 PER CENT NI --BY WEIGHT-- WITH FAST HEATING 67-10 M13-79067
THE TRANSFORMATIONS OF A CD-MG ALLOY WITH A STOICHIOMETRIC COMPOSITION OF CDMG3 67-10 M14-79874
X-RAY CRYSTALLOGRAPHIC ANALYSIS AT HIGH TEMPERATURE WITH A GONIOMETER EQUIPPED WITH A COUNTER 67-11 M13-80151
THE MOST PROBABLE GRAIN JOINTS IN THE BRAGG SOAP BUBBLE LATTICE 67-11 M13-80152
CRYSTALLOGRAPHIC CHANGES ENCOUNTERED IN THE PROCESSING OF POSITIVE LEAD-ACID BATTERY ACTIVE MATERIAL 67-11 M15-80826

CRYSTALS
SEE ALSO BICRYSTALS
PIEZOELECTRIC CRYSTALS
SINGLE CRYSTALS
WHISKERS /METALS/

CRYSTALS, WELDING
TRANSITION TO TURBULENT FLOW IN CRYSTALS 67-10 M11-78695

CUBE TEXTURE
ELASTIC WAVE VELOCITIES IN CUBE-TEXTURED COPPER SHEET 67-03 M13-65092
PROPERTIES AND APPLICATION OF NEW SI MATERIALS WITH CUBICAL TEXTURE 67-07 M15-73812
THE CUBE TEXTURE IN AL AND ITS ROLE IN THE CONTROL OF EARING 67-08 M14-74516
STUDY OF THE INVERSE ROWLAND MECHANISM FOR THE NUCLEATION OF A CUBE RECRYSTALLIZATION TEXTURE 67-11 M14-80945

CUBE TEXTURE

CUBE TEXTURE, HEATING EFFECTS
THE EFFECT OF SILICON CONTENT ON THE SECONDARY RECRYSTALLIZATION OF SILICON-IRON 67-12 M14-82589

CUBIC LATTICE
SEE ALSO BODY CENTERED CUBIC LATTICE
FACE CENTERED CUBIC LATTICE
ON THE GEOMETRY OF THE FORMATION OF ELECTRON DIFFRACTION PATTERNS FROM CRYSTALS OF MARTENSITE WITH FINE TWINS 67-04 M13-67392
STRUCTURE OF CUBIC TUNGSTEN NITRIDE 67-05 M13-68592
CRYSTAL STABILITY CALCULATIONS OF SIMPLE METALS--ALKALI METALS AND ALUMINIUM 67-06 M13-70468
LOW TEMPERATURE STRUCTURAL TRANSFORMATION IN NB3SN 67-06 M14-70574
DEFINITION OF THE CRYSTALLINE PARAMETERS AND THE INTENSITY OF THE DEBYE-SCHERRER RAYS OF CUBIC AND HEXAGONAL CO 67-10 M13-79707
A FAMILY OF CAL2S4 COMPOUND FORMED BY RARE EARTH ELEMENTS BETWEEN HO AND LU 67-10 M14-79714
THE REFRACTORY NATURE OF CUBIC SOLID SOLUTIONS FORMED BY ZR WITH CERTAIN SESQUIOXIDES OF RARE EARTH ELEMENTS 67-10 M14-79896

CUBIC LATTICE, CRYSTAL LATTICES
THE ROLE OF STACKING FAULTS IN SOME PROBLEMS OF GLIDE AND TWINNING IN CUBIC METALS 67-07 M13-73056

CUBIC LATTICE, DIFFUSION
SELF-DIFFUSION AND ELASTIC CONSTANTS IN THE ANOMALOUS BCC METALS 67-06 M14-70427

CUBIC LATTICE, DISLOCATIONS
ENERGY AND ATOMIC CONFIGURATIONS OF COMPLETE AND DISSOCIATED DISLOCATIONS. PT. 2. SCREW DISLOCATION IN AN FCC METAL 67-01 M13-58752

CUBIC LATTICE, METALLOGRAPHY
ELECTRON METALLOGRAPHY TECHNIQUES APPLIED TO BODY CENTERED CUBIC METALS AND ALLOYS 67-01 M13-58761

CUBIC LATTICE, MOSSBAUER EFFECT
MOSSBAUER SPECTRA IN CRYSTALS CONTAINING DEFECTS 67-05 M16-69639

CUPOLAS
SEE ALSO HOT BLAST CUPOLAS
COMPARATIVE STUDY OF HOT AND COLD BLAST CUPOLA OPERATION 67-01 M06-57595
APPLICATIONS OF MULTIPLE REGRESSION ANALYSIS METHOD TO CUPOLA MELTING OPERATION 67-01 M06-57615
MELTING OF CAST IRON WITH NATURAL GAS. THE FLAVEN FURNACE 67-01 M06-58621
REMELTING PIG IRON 67-01 M06-58664
INDUCTION FURNACE MELTING OF DUCTILE IRON 67-01 M06-58677
WAYS OF REPLACING COKE BY NATURAL GAS WHEN SHAFT FURNACE SMELTING OXIDIZED NICKEL ORES 67-02 M03-62217
MELTING FERROALLOYS AT THE ALMAZNYANSK WORKS 67-02 M04-59867
PROPORTIONING CUPOLA CHARGE MATERIALS USING A COMPUTER 67-02 M04-61229
STUDY OF HOT BLAST STOVES OF A 2000 M3 CAPACITY BLAST FURNACE 67-02 M04-61953
FUNDAMENTALS OF CALCULATING CUPOLA CHARGE COMPOSITION FOR UNALLOYED GRAY IRONS 67-02 M06-59080
CARBURIZING IRON IN THE CUPOLA 67-02 M06-60076
INCREASING THE DEGREE OF IRON SUPERHEATING AND DECREASING THE SULFUR IN CUPOLA MELTING OF THERMOANTHRACITE 67-02 M06-60077
STUDIES OF THE SIMULTANEOUS ADDITION OF MAGNESIUM AND RARE EARTH ALLOYS ON THE MANUFACTURE OF NODULAR GRAPHITE CAST IRON 67-02 M06-60148
WATER-COOLED CUPOLA WITH A TAPERING SHAFT 67-02 M06-61011
BEHAVIOUR OF CARBON AND SILICON IN BASIC CUPOLA MELTING 67-02 M06-61191
USE OF CAST IRON SWARF IN CUPOLA MELTING 67-02 M06-61198
PRODUCTION OF HIGH-STRENGTH CAST IRON IN A FOUNDRY OF THE ACEC 67-02 M06-61239
PRODUCTION OF CALENDER AND OTHER SHAFTS FOR PAPER-MAKING MACHINES 67-02 M06-61240
SOME FACTORS OF THE COMPOSITION AND PROPERTIES OF CUPOLA CAST IRON 67-02 M06-61806
METABOLISM OF THE CUPOLA 67-03 M04-65414
DISPENSING CUPOLA CHARGE MATERIALS WITH THE AID OF COMPUTERS 67-04 M04-68090
CFD BUILDS NEW IRON FOUNDRY 67-04 M06-67498
PRODUCTION OF CALENDAR AND OTHER ROLLS FOR PAPERMAKING MACHINES 67-04 M06-68100
EXPERIENCE WITH LOW-MELTING CUC2 IN CUPOLAS 67-05 M06-68520
AN EXAMPLE OF BASIC LININGLESS HOT BLAST CUPOLA OPERATION AND CONTROL 67-06 M06-69952
MELTING PLANT FOR SPHEROIDAL GRAPHITE IRON 67-06 M06-70023
METABOLISM OF THE CUPOLA 67-06 M06-70027
EFFECT OF COKE POROSITY ON CARBON CONTENT IN CUPOLA CAST IRON 67-06 M06-70294
THE MOST COMMON ERRORS IN CUPOLA MELTING 67-06 M06-70672
MELTING FURNACES IN MODERN FOUNDRIES 67-06 M06-70978
CUPOLA OPERATION, CHEMICAL ASPECTS, CARBURIZATION, MELTING LOSSES 67-07 M04-73488
MELTING AND SUPERHEATING IRON IN A GAS CUPOLA 67-07 M06-73044
USING HOT BRIQUETTED IRON CHIPS IN CUPOLA MELTING 67-07 M06-74049
SUPPLEMENTARY OIL-FIRING OF A COLD-BLAST CUPOLA 67-08 M04-74800
PRODUCING IRON IN THE CUPOLA USING THERMOANTHRACITE 67-08 M04-75189
MANGANESE LOSS IN CUPOLA MELTING 67-08 M06-74542
CUPOLA OPERATING EXPERIENCE IN A PIPE FOUNDRY 67-08 M06-74543
FOUNDRY MELTING--CUPOLA VS INDUCTION VS ARC 67-08 M06-75529
EVALUATION OF CAST IRON MELTING IN THE CUPOLA, ARC FURNACE AND INDUCTION FURNACE 67-08 M06-75748
VARIOUS APPROACHES TO AIR POLLUTION CONTROL FOR CUPOLA MELTING UNITS 67-09 M04-77393
MEASUREMENTS OF MELTING CONDITIONS IN CUPOLA BY THE USE OF GAMMA-RAY LEVEL METER 67-09 M04-77809
SOME FACTORS IN THE COMPOSITION AND PROPERTIES OF CUPOLA IRON 67-09 M06-78078
CUPOLA PREHEATER GENERATES 1800-1900 F. BLAST 67-10 M04-79290
INVESTIGATION AND EVALUATION OF CUPOLA OPERATION 67-11 M04-81072
FURNACES IN USE--RECENT INSTALLATIONS 67-11 M10-81492
INFLUENCE OF CHARGE MATERIALS ON THE FLUIDITY OF GREY IRON 67-12 M06-81880
STANDARDIZED CLOSED CUPOLAS 67-12 M06-81972
LOW-CARBON MALLEABLE IRON 67-12 M06-82097
A WATER-COOLED CUPOLA FOR MELTING WHITE CAST IRON 67-12 M06-82615
CUPOLA MELTING RESERVES 67-12 M06-83029
EFFECT OF AIR AND COKE EXPENDITURES ON CUPOLA MELTING CONDITIONS 67-12 M06-83037
DEFECTS OF CUPOLA COOLERS 67-12 M06-83041
DETERMINING THE CARBON CONTENT IN CUPOLA IRON 67-12 M19-82093

CUPOLAS, AUTOMATION
A CONTACTLESS SYSTEM FOR MEASURING MOLTEN IRON TEMPERATURE AND OPTIMUM REGULATION OF CUPOLA BLAST 67-04 M06-66417

CUPOLAS, CHEMICAL ANALYSIS
APPARATUS AND METHOD FOR MONITORING CUPOLA MELTING FROM THE COMPOSITION OF THE WASTE GASES 67-08 M06-76086

CUPOLAS, CONTROL EQUIPMENT
THE MEASURING AND CONTROL EQUIPMENT OF CUPOLA FURNACES 67-06 M06-70040

CUPOLAS, DESIGN
INFLUENCE OF INNER PROFILES OF CUPOLAS ON THE MAIN THERMOPHYSICAL AND METALLURGICAL PARAMETERS OF THE MELTING PROCESS 67-06 M06-70293

CUPOLAS, GAS ANALYSIS
APPARATUS AND CONTROL OF CUPOLA MELTING USING CHEMICAL COMPOSITION OF FLUE GASES 67-02 M06-62003

CUPOLAS, HEAT BALANCE
CALCULATING THE BASIC DIMENSIONS OF CUPOLAS AND PARAMETERS OF THEIR OPERATION 67-04 M06-66095

CUPOLAS, TEMPERATURE CONTROL
IMPROVED METHOD FOR TEMPERATURE MEASUREMENT IN THE BLAST-HEATED CUPOLA BY A CONTINUOUS RADIATION PYROMETER 67-01 M04-57156

CUPPING
SEE DEEP DRAWING

CUPPING TESTS
SEE DUCTILITY TESTS
CURIE POINT
SEE CURIE TEMPERATURE
CURIE TEMPERATURE
FERROMAGNETIC CURIE TEMPERATURES OF SOME IRON-ZINC SOLID SOLUTIONS 67-01 M15-57564
HALL EFFECT CLOSE TO THE CURIE POINT IN FERROMAGNETIC METALS 67-02 M15-61919
HEAT CAPACITY OF COBALT IN THE VICINITY OF THE CURIE POINT 67-03 M15-65633
MEASUREMENT OF CURIE TEMPERATURE BY AN INDUCTION METHOD 67-04 M15-66305
EFFECT OF PLASTIC DEFORMATION ON PHYSICAL PROPERTIES OF TI-ALLOYED FE-NI INVARS 67-04 M15-67925
SHOCK-WAVE COMPRESSION OF 30 PER CENT NI-70 PER CENT FE ALLOYS.. THE PRESSURE-INDUCED MAGNETIC TRANSITION 67-05 M15-69218
PROCESS YIELDS CO-FE ALLOYS WITH SUPERIOR HIGH TEMPERATURE MAGNETIC PROPERTIES 67-06 M15-70012
THE SHIFT OF THE FERROMAGNETIC CURIE TEMPERATURE IN EUS BY HYDROSTATIC PRESSURE 67-06 M15-70463
ON THE MAGNETIC PROPERTIES OF INVAR ALLOYS 67-06 M15-70900
THE EFFECT OF PRESSURE ON THE CURIE TEMPERATURE AND RESISTIVITY OF SOME RARE-EARTH METALS AND HEUSLER ALLOYS 67-06 M15-71282
FERROMAGNETIC TRANSITIONS IN DILUTE SOLUTIONS OF COBALT IN PALLADIUM 67-06 M15-71794
MAGNETIC PROPERTIES OF FE65 --NI1-XMNX--35 TERNARY ALLOYS 67-07 M15-72407
MAGNETIC ELECTRICAL AND THERMAL PROPERTIES OF THE BCC-ALPHA PHASE IN A FE-GA SYSTEM 67-07 M15-72726
MAGNETOSTRICTION SATURATION OF FESI SINGLE CRYSTALS CONTAINING 4.4 WT PER CENT SI BETWEEN ROOM TEMPERATURE AND CURIE POINT 67-07 M15-72749
SURFACE OF MAGNETIZATION, FIELD, AND TEMPERATURE FOR NICKEL NEAR ITS CURIE TEMPERATURE 67-07 M15-73501
MAGNETIC CRITICAL-POINT BEHAVIOR OF CRO2 67-07 M15-73502
CORRELATION OF ELECTRONIC SPECIFIC HEATS AND CURIE TEMPERATURES IN DILUTE ALLOYS OF IRON 67-07 M15-73541
A BASIS FOR SOME OF THE VARIETY OF MAGNETIC PROPERTIES OF THE HEAVY RARE-EARTH METALS AND ALLOYS 67-07 M15-73581
MAGNETIC PROPERTIES OF SOME ALLOYS OF THORIUM WITH HOLMIUM AND ERBIUM 67-07 M15-73586
MAGNETIC PROPERTIES OF RARE-EARTH COMPOUNDS 67-07 M15-73587
MAGNETIC PROPERTIES OF PRAL2 67-07 M15-73588
MAGNETIC-SUSCEPTIBILITY STUDIES ON THE MAGNELI PHASES OF THE TITANIUM-OXYGEN SYSTEM 67-07 M15-73601
A THIRD MAXIMUM IN THE PERMEABILITY/TEMPERATURE CURVE OF MN-ZN FERRITES 67-07 M15-73804
THE ALPHA-GAMMA EQUILIBRIUM IN FE-MN, FE-MO, FE-NI, FE-SB, FE-SN AND FE-W SYSTEMS 67-08 M13-75813
INFLUENCE OF MAGNETIC TRANSFORMATION ON ELECTROCHEMICAL BEHAVIOR OF NI-MO ALLOYS 67-08 M14-74790
X-RAY ANALYSIS OF STRUCTURE OF HIGH-COBALT ALLOY FOR PERMANENT MAGNETS IN THE 800 TO 1200 C TEMPERATURE RANGE 67-08 M15-75272
THE CURIE TEMPERATURE OF CHEMICALLY-DEPOSITED NICKEL FILMS 67-08 M15-75277
TEMPERATURE DEPENDENCE OF THE THERMOMAGNETIC EFFECT IN NI-CU, NI-ZN, NI-AL, NI-SN ALLOYS 67-08 M15-75286
STUDY OF THE CHARACTERISTICS OF MARTENSITIC TRANSFORMATION DURING AUSROLLING OF NI STEELS 67-10 M14-79224
INVESTIGATION OF THE DEPENDENCE OF CERTAIN PROPERTIES OF MAGNESIUM AND MANGANESE FERRITES ON THEIR COMPOSITION 67-10 M15-79457
STUDY OF THE PHYSICAL PROPERTIES OF CR-TE-S, CR-TE-SE AND CR-TE-SB ALLOYS 67-10 M15-79836
CONTRIBUTION TO THE STUDY OF THE PHENOMENA ASSOCIATED WITH ORDER-DISORDER TRANSITIONS IN FE-NI ALLOYS 67-10 M15-80018
THE ELECTRICAL RESISTIVITY OF AU4V 67-11 M15-80185
THE MAGNETIC PROPERTIES OF THE MOLYBDENUM-IRON SOLID SOLUTION 67-11 M15-80372
ELECTRICAL RESISTANCE FERROMAGNETIC CR-GE ALLOYS IN THE 20 TO 300 K. TEMPERATURE RANGE 67-11 M15-80747
THE INITIAL SUSCEPTIBILITY ABOVE AND THE SPONTANEOUS MAGNETIZATION UNDER THE CURIE TEMPERATURE OF FE, CO AND NI 67-11 M15-80807
MAGNETIC PROPERTIES IN THE COLD WORKED STATE OF IRON-NICKEL-CHROMIUM ALLOYS CONTAINING 35 WT PER CENT NI AND 0-20 WT PER CENT CR 67-11 M15-81071
MAGNETOCHEMICAL STUDY OF THE REDUCTION OF GAMMA MNO2 67-12 M14-81813
THE DIFFUSION OF CARBON IN NICKEL ABOVE AND BELOW THE CURIE TEMPERATURE 67-12 M14-82969
THERMOMAGNETIC STUDIES OF THE MAGNETOCALORIC EFFECT OF COBALT NEAR THE CURIE POINT 67-12 M15-82222
MOSSBAUER STUDY OF THE FE-MN CARBIDES --FE1-XMNX--3C AND --FE1.1MN3.9--C2 67-12 M16-82005
CURIE TEMPERATURE, ALLOYING EFFECTS
STRAIN GAGE FACTOR AND ELECTRICAL AND MAGNETIC PROPERTIES IN AS-COLDWORKED STATE OF IRON-NICKEL-CHROMIUM ALLOYS CONTAINING 35 WT PER CENT NICKEL AND 0-20 WT PER CENT CHROMIUM 67-08 M15-74433
VOLUME EFFECT FOR MAGNETIC TRANSITION TEMPERATURES OF RARE-EARTH-SCANDIUM ALLOYS 67-11 M15-80657
EXPERIMENTAL INVESTIGATION ON EXCHANGE INTERACTION IN PLATINUM-IRON ALLOYS 67-11 M15-80661
CURIE TEMPERATURE, COMPOSITION EFFECTS
THE MAGNETIC PROPERTIES OF SIGMA PHASE ALLOYS 67-01 M15-58669
EFFECT OF OXYGEN DEFICIENCY ON THE MAGNETIC PROPERTIES OF COPPER FERRITE 67-04 M15-67484
PROPERTIES OF HIGHLY-PERMEABLE NI-FE-V ALLOYS 67-07 M15-73810
CURIE TEMPERATURE, HEATING EFFECTS
LOW TEMPERATURE TREATMENT OF N.K.S. PERMEANENT MAGNET OF AL-NI-CO TYPE 67-08 M15-74431
CURIE TEMPERATURE, PRESSURE EFFECTS
MAGNETIC PROPERTIES OF IRON AND INVAR UNDER HIGH PRESSURE 67-03 M15-65915
MAGNETIC PROPERTIES OF SOME RARE-EARTH ALLOYS AT HIGH PRESSURES 67-05 M15-69521
EFFECT OF HYDROSTATIC PRESSURE ON THE CURIE TEMPERATURE OF NI AND CU-NI ALLOYS 67-05 M15-69763
PRESSURE DEPENDENCE OF CURIE TEMPERATURE IN NI 67-07 M15-73559
EFFECT OF PRESSURE ON THE CURIE TEMPERATURE OF CRTE AND MNSB COMPOUNDS OF NICKEL ARSENIDE TYPE 67-10 M15-78717
PRESSURE DEPENDENCE OF THE MAGNETIC TRANSITION TEMPERATURES IN TERBIUM FROM RESISTANCE MEASUREMENTS 67-10 M15-78736
MAGNETIC TRANSITIONS IN ALLOYS OF GADOLINIUM AND DYSPROSIUM 67-10 M15-78738
THE VARIATION OF THE CURIE POINT OF A GD CRYSTAL WITH PRESSURE 67-10 M15-79684
PRESSURE DEPENDENCE OF THE MAGNETIC TRANSITIONS IN DYSPROSIUM AND ERBIUM 67-11 M15-80659
CURING
POST CURING BY ELECTRICAL INDUCTION HEATING 67-01 M10-57980
COATING BY THE ELECTRON BEAM 67-03 M12-65480
CURIUM, EXTRACTION
STUDIES ON THE SOLVENT EXTRACTION OF ACTINIDE ELEMENTS BY ORGANOPHOSPHORUS COMPOUNDS 67-08 M03-75302
SIMULTANEOUS SEPARATION OF THE ELEMENTS RA, PU, U, AM AND CM FROM IRRADIATED THORIUM 67-12 M16-82238
CURRENT CARRIERS
EFFECT OF CARRIER-CARRIER SCATTERING ON THE HALL EFFECT IN GRAPHITE 67-04 M16-66763
INVESTIGATION OF THE CR-SI SYSTEM IN THE DISILICIDE REGION 67-05 M16-68708
MOBILITY OF CURRENT CARRIERS AND MAGNETORESISTANCE IN BISMUTH ALLOYS 67-06 M15-70186
INVESTIGATION OF THE CR-SI SYSTEM IN THE DISILICIDE REGION 67-12 M16-82684
CURRENT CARRIERS, DIFFUSION
SURFACE RECOMBINATION VELOCITIES AND DIFFUSION LENGTHS IN GAAS 67-04 M14-66762
CURRENT CONTACTS
SEE ELECTRIC CONTACTS
CURRENT DENSITY
SUPERCONDUCTING CRITICAL FIELDS, CURRENTS AND

CURRENT DENSITY
TEMPERATURES IN THE NB-ZR-N TERNARY SYSTEM 67-03 M16-65390
ON ECONOMICAL CURRENT DENSITY IN CHLORIDE ELECTROLYSIS OF NICKEL 67-04 M03-66966
STUDY OF ELECTRICAL FIELD IN CATHODE METAL OF ALUMINUM ELECTROLYZERS 67-04 M03-66970
RELATIONSHIP BETWEEN DISTRIBUTION OF ANODIC CURRENT DENSITY AND FORM OF INTERPOLAR GAP IN INDUSTRIAL ALUMINUM BATHS 67-05 M03-68961
STUDY OF THE ELECTROCHEMICAL PROPERTIES OF TL 67-05 M03-68968
CONDITIONS SURROUNDING CATHODIC DEPOSITION OF CERTAIN METAL POWDERS AT HIGH CURRENT DENSITIES 67-05 M09-68403
EFFECT OF SURFACE VIBRATION ON ANODIZING CURRENT DENSITY 67-06 M12-70846
INFLUENCE OF INTERELECTRODE DISTANCE ON THE OPERATION OF A CESIUM THERMIONIC CONVERTER 67-06 M16-70494
FIELD DISTRIBUTION IN N-TYPE GAAS UNDER HIGH ELECTRIC FIELD 67-06 M16-72047
TECHNOLOGY OF ELECTROLYTIC REDUCTION OF ALUMINA BY THE HALL-HEROULT PROCESS. PT. 4. CHEMICAL PROCESSES ASSOCIATED WITH THE ANODE EFFECT 67-07 M03-73610
ECM BECOMES PREDICTABLE 67-07 M08-72929
TECHNOLOGY OF ELECTROLYTIC REDUCTION OF ALUMINA BY THE HALL-HEROULT PROCESS. PT. 3. THE ANODE REACTION DURING ELECTROLYTIC DECOMPOSITION OF THE ALUMINA 67-07 M08-73609
ENERGY REQUIREMENTS IN THE ELECTRODEPOSITION OF COPPER 67-08 M03-74782
MICROWAVE MEASUREMENT OF DIFFERENTIAL NEGATIVE CONDUCTIVITY DUE TO INTERVALLEY TRANSFER OF HOT ELECTRONS IN N-TYPE GAAS 67-08 M16-74470
ELECTROLYTIC A-C CORROSION OF IRON 67-08 M18-74624
TEMPERATURE FLUCTUATIONS DURING THE WELDING OF PIPES USING ROTATING TRANSFORMERS 67-11 M11-80509
COBALT-CADMIUM ALLOY DEPOSITION FROM SULFATE BATHS 67-11 M12-80666
INFLUENCE OF THE EDGE EFFECT ON THE TEXTURE OF COPPER DEPOSITS 67-11 M12-80729
ELECTROLYTIC NICKEL COATING AT HIGH CURRENT DENSITIES 67-11 M12-81285
ELECTROTRANSPORT OF BISMUTH IN LIQUID TIN 67-11 M14-81273
CURRENT-POTENTIAL EFFECTS OF ADDITIVES IN MANGANESE ELECTROWINNING. PT. 2 67-12 M03-82585
BASICS AND DEVELOPMENT IN ELECTROCHEMICAL MACHINING 67-12 M08-82777
STUDY ON ELECTROLYTIC MACHINING PROCESS. PT. 11. EFFECT OF INHIBITOR IN SODIUM CHLORIDE SOLUTION ON THE SURFACE FINISH OF WORK MACHINED BY A SINGLE-PHASE HALF-WAVE RECTIFICATION CURRENT 67-12 M08-83224
ELECTROLYTIC DEPOSITION OF ZINC-CADMIUM ALLOY FROM ACETATE BATHS 67-12 M12-83491
EFFECT OF CURRENT DENSITY ON FIELD-FREEZING EXPERIMENTS 67-12 M14-82982
CURRENT DENSITY, MAGNETIC FIELDS
DISTRIBUTION OF MAGNETIC FIELDS AND CURRENTS IN TYPE 2 SUPERCONDUCTORS 67-08 M16-75649
CURRENT DENSITY, RADIATION EFFECTS
ENHANCEMENT OF SUPERCONDUCTING CRITICAL CURRENT DENSITY IN NB3SN DIFFUSION LAYERS PRODUCED BY IRRADIATION WITH PROTONS 67-03 M16-65110
CURRENT EFFICIENCY
THE INFLUENCE OF ALLOYING ELEMENTS ON ALUMINUM ANODES IN SEA WATER 67-03 M18-65473
INDUSTRIAL TESTS ON THE INTENSIFICATION OF MAGNESIUM ELECTROLYZERS WITH SIDE ANODE SUPPLY 67-04 M03-66972
ON THE ELECTRIC ARC FURNACE, WITH SPECIAL REFERENCE TO LARGE CAPACITY UNITS FOR STEEL PRODUCTION 67-07 M04-72547
THE DETERMINATION OF OPTIMUM CURRENT INTENSITIES FOR BITTERFELD ELECTROLYTIC CELLS 67-08 M03-74355
METHODS OF INCREASING CURRENT EFFICIENCY IN THE ELECTROLYTIC EXTRACTION OF MANGANESE. EFFECT OF PHENOL 67-11 M03-80431
EXTRACTION OF MNO2 BY ELECTROLYSIS FROM INTERMEDIATE PRODUCTS BY HYDROCHLORIC PROCESSING OF LEAN CARBONATE ORES 67-11 M03-80437
CURRENT REGULATORS
ENERGY RATE INPUT CONTROL OF ARC FURNACES 67-04 M04-67189
CURRENTS
SEE ALTERNATING CURRENT
EDDY CURRENTS
ELECTRIC ARCS
ELECTRIC CURRENT
ELECTRIC SPARKS
PLASMA ARCS
CURTAIN WALLS
ARCHITECTURAL AND HARD ANODIZING 67-03 M12-65151
RECOGNITION OF CORROSION HAZARDS TO METALS IN BUILDING 67-08 M18-74705
CURVES
SEE COOLING CURVES
STRESS STRAIN CURVES
TTT CURVES
CUTTERS
SEE CUTTING TOOLS
CUTTING
SEE ALSO COLD SHEARING
CUTTING WITH GRINDING DISKS AT ELEVATED TEMPERATURES 67-01 M08-58612
HARD METAL FOR CUTTING TOOL FACING 67-01 M11-58152
PERMEABLE SHEET METAL AND METHOD OF MAKING SAME 67-02 M08-60938
STUDY OF THE METAL CUTTING PROCESS DURING VIBRATION LOADING 67-02 M08-61216
METALWORKING 67-02 M08-61901
AN ELECTRON-OPTICAL MICROMACHINING APPARATUS--AN INSTALLATION FOR THE THERMAL AND NONTHERMAL ELECTRON BEAM MACHINING WITH ELECTRON-OPTICAL REPRODUCTION OF AN INTERNAL PATTERN 67-03 M08-65441
THE TECHNOLOGY OF SHEET METAL WORKING 67-03 M08-65759
EXPLOSIVE CUTTING OF METALS 67-05 M08-69161
THE PREPARATION OF METAL BILLETS BY BARCROPPING 67-05 M08-69874
INFLUENCE OF CUTTING ON SURFACE QUALITY OF ANTIFRICTION COMPOSITE MATERIALS 67-05 M09-69016
AN ACID SAW FOR THE STRAIN-FREE CUTTING OF SINGLE CRYSTALS 67-06 M13-71013
SURFACE ROUGHNESS FORMATION IN METAL CUTTING 67-06 M19-72147
SPARK EROSION IN TOOL MANUFACTURE 67-08 M08-74567
METAL TRANSFER AND BUILD UP IN FRICTION AND CUTTING 67-08 M08-76058
MACHINING OF CAST HIGH ALLOYS. PT. 2. CARBIDE TOOLING 67-08 M08-76190
A DEVICE FOR ORIENTATED CUTTING OF CRYSTALS AND ITS OPERATION AND APPLICATIONS 67-08 M13-74434
TECHNOLOGY OF SHEET METALWORKING. PT. 9 67-09 M08-77946
OBSERVATIONS ON SPECIMEN CUTTING BY WIRES 67-09 M08-78183
THE APPLICABILITY OF THE BINOMIAL LAW TO THE PROCESS OF FRICTION IN THE CUTTING OF METALS 67-10 M08-79108
TRIMMING OF TITANIUM MADE EASY 67-11 M08-81193
CUTTING FORCE DURING MACHINING OF POROUS SINTERED MATERIALS 67-12 M08-82215
CONTINUOUS SMALL BAR MILL AT THE WORKS OF THE METALLURGY SOCIETY OF NORMANDY 67-12 M20-82895
CUTTING, STRESS EFFECTS
RESIDUAL MACROSTRESSES IN THE MACHINING OF POROUS SINTERED MATERIALS 67-02 M17-62109
CUTTING FLUIDS
EMULSIFIED CUTTING FLUIDS IN MODERN ENGINEERING 67-01 M08-58540
CUTTING FLUID APPLICATIONS--HOW IT CAN IMPROVE YOUR MACHINING DOLLAR 67-01 M08-58550
DESIGNING HIGH PERFORMANCE STAMPING AND DRAWING DIES WITH FERRO-TIC STEEL-BONDED CARBIDE COMPONENTS 67-01 M08-58678
CUTTING FLUIDS TAME TITANIUM 67-04 M08-66301
TOUGH, TEMPERAMENTAL TITANIUM TAMED 67-05 M08-68421
CUTTING FLUIDS 67-05 M08-68510
CUTTING FLUID ADDITIVES TAME TITANIUM 67-06 M08-71206
ON THE CUT-OFF TURNING TEST OF AL BAR 67-06 M08-71216
PURPOSES AND ATTRIBUTES OF METALWORKING LUBRICANTS 67-07 M08-73692
MACHINING ALCOA ALUMINUM 67-09 M08-78186

APPLICATION OF CUTTING FLUIDS IN DRILLING
67-10 M08-79505
ADVANCED MACHINING TECHNOLOGY 67-12 M08-82645
CUTTING TOOL AND CUTTING FLUID EVALUATION. ECONOMIC CONSIDERATIONS FOR AEROSPACE MANUFACTURING
67-12 M08-82888
BENCH TESTING METALWORKING FLUIDS
67-12 M08-82913
A STUDY OF THE EFFECT OF CUTTING FLUIDS ON THE METAL-CUTTING PROCESS 67-12 M08-82946
EFFECTS OF GRINDING FLUIDS ON GRINDING PERFORMANCES IN FORCED INFEED PLUNGE GRINDING
67-12 M08-83545

CUTTING MACHINES /TOOLS/
SEE MACHINE TOOLS

CUTTING OILS
SEE CUTTING FLUIDS

CUTTING SPEED
CUTTING FORCE CHARACTERISTICS AT HIGH CUTTING RATES
67-02 M08-60222
ON THE CUT-OFF TURNING TEST OF AL BAR
67-06 M08-71216
INVESTIGATIONS ON THE CUTTING POWER AND SURFACE QUALITY IN THE INTERNAL BROACHING OF STEEL
67-06 M08-71804
APPLICATIONS AND LIMITS OF BROACHING AT HIGH CUTTING SPEEDS 67-08 M08-74755
INCREASED PRODUCTION IN GRINDING THROUGH HIGH CUTTING SPEEDS 67-08 M08-75592
FLOW STRESS CHARACTERISTICS AND THE MACHINING PROCESS 67-09 M08-77557
MACHINING HIGH STRENGTH MATERIALS
67-09 M08-78018
THE RELATION BETWEEN THE STATIC AND THE DYNAMIC CUTTING OF METALS 67-09 M08-78105
AN ANALYSIS OF THE DEVELOPMENT OF CARBIDE TOOL CRATER WEAR 67-09 M08-78106
RELATIONSHIP BETWEEN CUTTING GEOMETRY, TOOL WEAR AND SURFACE QUALITY IN THE PEELING OF STEEL BARS WITH CARBIDE TOOLS. PT. 2. EFFECT OF VARIABLE PROCESSING CONDITIONS ON TOOL WEAR
67-09 M08-78281
RELATIONSHIP BETWEEN CUTTING GEOMETRY, TOOL WEAR AND SURFACE QUALITY IN THE PEELING OF STEEL BARS WITH CARBIDE TOOLS. PT. 3. EFFECT OF PEELING AND STRAIGHTENING CONDITIONS ON THE SURFACE OF BRIGHT BARS.. RELATIONSHIP BETWEEN TOOL WEAR AND SURFACE QUALITY 67-09 M08-78282
RESEARCH, DEVELOPMENT AND APPLICATIONS OF MACHINE TOOLS. PT. 4 67-09 M20-76687
TURNING WITH CARBIDE TOOLS ON SINGLE SPINDLE AUTOMATIC LATHES 67-11 M08-80397
THERMAL COEFFICIENTS AS A MACHINABILITY INDEX
67-11 M08-80539
TECHNOLOGY OF ADVANCED CUTTING TOOL MATERIALS
67-11 M17-80294
THE WEAR RESISTANCE OF MACHINE TOOLS UNDER VARIOUS CUTTING CONDITIONS 67-12 M08-82463
A STUDY ON TAPPING WROUGHT ALUMINUM. PT. 1
67-12 M08-83109

CUTTING TOOL MATERIALS
EXPERIENCE WITH THE INTRODUCTION OF CERIUM-INOCULATED HIGH-STRENGTH CAST IRON
67-04 M06-66423
A TOOL FOR SPARK-EROSION AND ULTRASONIC SHAPING
67-07 M08-72421
NEW MATERIALS TAME TOUGH JOBS 67-07 M20-72536
APPLICATIONS OF HIGHLY WEAR-RESISTANT CUTTING MATERIALS 67-08 M20-74523

CUTTING TOOL MATERIALS, BRAZING
TWO NEW BREAKS FOR CARBIDES 67-04 M20-67767

CUTTING TOOL MATERIALS, COATING
PLATING METAL PARTS WITH MANUFACTURED DIAMONDS
67-04 M12-67794

CUTTING TOOLS
SEE ALSO CAST ALLOY TOOLS
HIGH SPEED STEEL TOOLS
THE USE OF COLD CUTTING AND NIBBLING MACHINES FOR THE FLANGING OF THIN SHEET 67-01 M08-58115
DESIGNING HIGH PERFORMANCE STAMPING AND DRAWING DIES WITH FERRO-TIC STEEL-BONDED CARBIDE COMPONENTS 67-01 M08-58678
DEVELOPMENT OF TOOLS FOR MACHINING OPERATIONS AND CURRENT STATUS OF TECHNOLOGY 67-02 M08-59975
A METHOD AND A DEVICE FOR FEEDING UNIFORM BATCHES OF POWDER 67-02 M11-61051
TOOL SELECTION FOR TOUGH ALLOYS
67-03 M08-65492
AN INVESTIGATION INTO THE PROBLEM OF MEASURING THE TEMPERATURE DISTRIBUTION ON THE RAKE FACE OF A CUTTING TOOL 67-03 M08-65991
MANUFACTURE OF CUTTING TOOLS FROM HIGH-SPEED STEEL CHIPS 67-04 M07-66956
COMPOUND KNIFE STEELS WITH WEAR-RESISTANT CUTTING EDGES 67-04 M20-66216
THE CUTTING TOOL 67-05 M08-68509
BLAST FORMING BOOSTS HSS TO 73 RC
67-06 M07-71588
CARBIDE MACHINING OF SUPERALLOYS
67-06 M08-71484
DEVELOPMENTS IN CUTTING-TOOL MATERIALS
67-06 M20-70654
SIMPLE DIAL-IN CHUCKING MACHINE COMBINES VERSATILITY AND SPEED 67-07 M08-74294
MACHINING TOOLS FOR HIGHLY HEAT RESISTANT MATERIALS IN AIRCRAFT POWER PLANT CONSTRUCTION
67-08 M08-74756
MACHINING ALCOA ALUMINUM 67-09 M08-78186
RELATIONSHIP BETWEEN CUTTING GEOMETRY, TOOL WEAR AND SURFACE QUALITY IN THE PEELING OF STEEL BARS WITH CARBIDE TOOLS. PT. 4. DETERMINATION OF THE MOST FAVORABLE GEOMETRY OF THE CUTTING EDGE OF HARD METAL PEELING TOOLS AND EFFECT OF THE PEELING TOOL WEAR ON THE SURFACE FINISH OF BRIGHT STEEL BARS 67-09 M08-78283
MACHINE KNIVES AND THEIR MANUFACTURE
67-09 M20-77375
MANUFACTURE OF STEEL FOR SAFETY RAZORS
67-10 M04-79854
TOOL WEAR AND HEIGHT OF BURR IN CUTTING SHEET
67-10 M08-78700
CEMENTED CARBIDES WITH HIGH-MELTING BINDERS. PT. 2. TERNARY EQUILIBRIUM SYSTEMS 67-10 M14-79979
THE STATE OF DEVELOPMENT IN THE PRECISION STAMPING TECHNOLOGY. PT. 2 67-11 M08-80298
STATUS OF GROUP FORMING AND CUTTING TOOLS FOR SHEET-METAL WORKING 67-11 M08-80399

CUTTING TOOLS, BRAZING
REFRACTORY COMPOUND FOR FIXING PARTS FOR BRAZING
67-01 M11-58190

CUTTING TOOLS, COATING
PERCUSSION WELD SURFACING--A NEW APPROACH FOR CARBIDE COATING OF TOOLS AND DIES
67-01 M12-58689
RESULTS OBTAINED WITH STELLITE FOR BLANKING, TRIMMING, AND SHEARING TOOLS 67-11 M08-81692

CUTTING TOOLS, DESIGN
THE DESIGN OF CUTTING TOOLS FOR LOW-WASTE CUTTING OF STRIP 67-06 M08-70586

CUTTING TOOLS, HEAT TREATMENT
ISOTHERMAL QUENCHING OF BAND SAW LINKS
67-04 M10-66370
HIGH-SPEED STEELS AND HEAT TREATMENT OF PRECISION TOOLS 67-06 M10-71910

CUTTING TOOLS, MACHINING
APPLICATION OF HOBBING TO THE MANUFACTURE OF METAL CUTTING DIES 67-01 M08-58674
IMPROVING THE EDGE LIFE OF CUTTING TOOLS BY SPARK MACHINING 67-09 M08-77155
REPAIR SHOP FOR CUTTING TOOLS 67-09 M08-77677
ELECTROCHEMICAL DISCHARGE MACHINING
67-12 M08-82944
WORKSHOP PRACTICE IN USING OF TUNGSTEN CARBIDE, TCD, WITH EDM PROCESS 67-12 M08-82945

CUTTING TOOLS, MECHANICAL PROPERTIES
EFFECTS OF NI AND CR ON SOME PROPERTIES OF PLAIN CARBON STEEL 67-04 M17-67561
AN EVALUATION OF NEW TITANIUM GRADE CARBIDE TOOL MATERIALS 67-06 M08-71483
ON THE TEMPERATURE DISTRIBUTION IN ORTHOGONAL MACHINING 67-06 M08-71555
A METHOD OF DETERMINING THE RED HARDNESS OF HIGH-SPEED ALLOYS 67-06 M17-70290
BRIDGING THE GAP WITH THE NEW TITANIUM GRADE CARBIDES 67-06 M17-71587
A MEASUREMENT OF THE MACHINABILITY OF FREE-MACHINING STEELS THROUGH THE USE OF RADIOACTIVE CUTTING TOOLS 67-08 M08-75643
INVESTIGATION OF THE CUTTABILITY OF BRONZE-GRAPHITE COMPOSITES 67-08 M17-75438
A LOW-COST, SECONDARY HARDENING STEEL THAT COVERS THE SPECTRUM OF TOOL-STEEL APPLICATIONS
67-10 M01-79520
CARBIDE TOOL SELECTION--A DECISION IN ECONOMICS
67-10 M08-79509
CARBIDE GRADE SELECTION 67-10 M17-79508
CUTTING TOOL AND CUTTING FLUID EVALUATION. ECONOMIC CONSIDERATIONS FOR AEROSPACE MANUFACTURING

CUTTING TOOLS
67-12 M08-82888
IMPACT STRENGTH OF CAST TOOLS MADE OF R5M2F2 HIGH-SPEED TOOL STEEL 67-12 M17-81778
DEVELOPMENT OF ADVANCED CERAMIC CUTTING TOOLS 67-12 M17-82947
CUTTING TOOLS, MICROSTRUCTURE
THE STRUCTURE OF 18-4-1 HIGH-SPEED STEEL AND ITS INFLUENCE ON THE QUALITY OF CUTTING TOOLS 67-01 M19-57607
CUTTING TOOLS, SERVICE TIME
THE DEPENDENCE OF TOOL WEAR ON CUTTING CONDITIONS CHIP-FORMING MACHINING 67-11 M08-81530
CUTTING TOOLS, STANDARDS
ELECTROCHEMICAL PREPARATION OF HARD-FACED TOOLS--A CRITIQUE 67-08 M19-75841
CUTTING TOOLS, STRESS EFFECTS
WHY BRAZED CARBIDE TIPS FAIL 67-07 M17-72994
CUTTING TOOLS, STRUCTURAL MATERIALS
NEW STAINLESS STEELS FOR SURGICAL CUTTING INSTRUMENTS 67-10 M17-78372
CUTTING TOOLS, WEAR
HOW HEAT AFFECTS TOOL WEAR 67-01 M08-58509
MILLING GROOVES IN HEAT-RESISTANT STEELS BY END CUTTERS 67-02 M08-61258
DURABILITY OF CUTTERS WHEN CUTTING POROUS CERMET MATERIALS 67-02 M17-62133
EFFECT OF COOLING LIQUID ON THE FRICTION PROCESS AND TOOL WEAR 67-03 M17-65207
MACHINING OPERATIONS FACILITATED WITH ROCOL SOLUBLE OIL 67-06 M08-70708
TAPS FOR CUTTING THREADS IN A QUENCHED HIGH-MANGANESE STEEL 67-07 M08-74290
WEAR AND LIFE OF TOOL FOR ROLLING INTERNAL THREADS 67-07 M08-74291
CUTTING PROPERTIES OF MONOLITHIC CERMET END CUTTERS 67-07 M08-74292
TOOL WEAR IN STEEL CUTTING 67-08 M17-74522
WEAR RESISTANCE OF TOOL STEELS IN ORGANIC MEDIA 67-08 M17-74978
SERVICE LIFE OF HARD ALLOY TOOLS IN THE MACHINING OF POROUS SINTERED MATERIALS 67-09 M08-76929
THE WEAR OF CUTTING TOOLS AND POSSIBILITIES OF DIMINUTION 67-09 M17-76370
CUTTING TOOLS, WELDING
CONDENSER WELDING OF TOOL STEELS AND CERMETS 67-07 M11-72740
MANUFACTURING CUTTING TOOLS BY DEPOSIT WELDING 67-10 M11-78414
CAPACITOR DISCHARGE WELDING OF TOOL STEELS AND HARD ALLOYS 67-12 M11-82319
CUTTINGS
SEE CHIPS
CYANIDE PROCESS
SEE CYANIDING
CYANIDES
PREPARATION OF SILVER CYANIDE BY ELECTROLYSIS 67-10 M12-78522
CYANIDES, CHEMICAL ANALYSIS
NOTE ON THE DETERMINATION OF GOLD IN BARREN CYANIDE SOLUTIONS BY ATOMIC ABSORPTION SPECTROSCOPY 67-06 M19-71889
CYANIDES, PHASE TRANSFORMATIONS
DIELECTRIC AND OPTICAL INVESTIGATIONS OF THE IRREVERSIBLE FERROELECTRIC PHASE TRANSITION IN CRYSTALS OF POTASSIUM 67-09 M15-76783
CYANIDING
STUDY OF SEPARATE CYANIDATION OF ARGILLACEOUS AURIFEROUS ORES 67-01 M03-58194
DECREASE IN THE TIME OF THE CARBONITRIDING PROCESS 67-01 M10-58035
EFFECT OF CYANIDING ON THE KINETICS OF ISOTHERMAL DECOMPOSITION OF AUSTENITE IN 35HM STEEL 67-01 M14-57152
EFFECT OF CARBONITRIDING ON PROPERTIES OF LOW-ALLOY STEELS 67-01 M17-58036
INVESTIGATION OF CASE HARDENING OF GEARS 67-02 M17-60843
DIFFUSION ON THE SURFACE OF STEEL PARTS 67-03 M12-65452
SALT-BATH CASE-HARDENING 67-08 M10-74745
CHEMICOTHERMAL TREATMENT OF GEARS 67-08 M17-76101
CYANIDATION OF PALLADIUM AND A PALLADIUM-SILVER ALLOY 67-09 M03-77118
CYANIDING, AUTOMATION
AUTOMATIC REAGENT CONTROL IN THE BRALORNE CYANIDATION CIRCUIT 67-09 M10-77026
CYCLES
SEE RANKINE CYCLE
STRESS CYCLE
THERMAL CYCLING
CYCLIC LOADS
CUMULATIVE DAMAGE AND EFFECT OF MEAN STRAIN IN LOW-CYCLE FATIGUE OF A 2024-T351 ALUMINUM ALLOY 67-04 M17-66239
EFFECT OF LOAD AND TEMPERATURE CYCLING ON CREEP RESISTANCE AND STRUCTURE OF ESSHETE 1250 67-04 M17-66730
ON THE FATIGUE OF TENSILE PRESTRAINED MILD STEEL UNDER REPEATED ALTERNATING COMBINED STRESSES 67-04 M17-66898
ON THE STRENGTH OF AUSTENITIC STEELS DURING CYCLIC LOADING 67-04 M17-67381
VARIATIONS OF THE STRUCTURE AND PROPERTIES OF SOME CARBON STEELS UNDER CYCLIC LOADS BELOW THE FATIGUE LIMIT 67-04 M17-67439
THE EFFECT OF SUPERIMPOSED FATIGUE ON THE CREEP BEHAVIOR OF THE NICKEL-BASE ALLOY UDIMET 700 67-06 M17-71082
LOW-CYCLE FATIGUE OF METALS--A REVIEW OF THE STATE OF RESEARCH 67-07 M17-73707
ON THE CHANGES OF SOME PROPERTIES OF STEEL DURING ALTERNATING STRESSES 67-07 M17-73708
YIELD AND SECOND-ORDER EFFECTS INDUCED BY CYCLIC STRAIN IN COPPER UNDER TENSION 67-07 M17-73918
FRACTURE BEHAVIOUR OF TWO CREEP-RESISTANT MATERIALS SUBJECTED TO CYCLIC LOADING AT ELEVATED TEMPERATURE 67-07 M17-74086
PUSH-PULL LOW ENDURANCE FATIGUE OF EN 25 AND EN 32B STEELS AT 20 C. AND 450 C 67-08 M17-74499
THERMAL METHOD OF LOADING IN INTERMITTENT STATIC TESTING 67-08 M17-74530
THE DESCRIPTION OF ANISOTROPIC WORK HARDENING 67-08 M17-75779
CYCLIC STRAIN-SOFTENING EFFECTS IN METALS 67-08 M17-75970
FATIGUE TEST PRACTICE IN CONNECTION WITH ELEMENTS. THE USEFULNESS OF TORSIONAL STRESS 67-08 M17-76232
A CRITERION FOR FATIGUE FRACTURE UNDER MULTIAXIAL ALTERNATING STRESS STATE 67-10 M17-79599
FATIGUE SOFTENING AND HARDENING OF ANNEALED LOW-CARBON STEEL 67-10 M17-79769
INFLUENCE OF THE MANNER OF LOADING --IMPOSED STRESS OR STRAIN-- ON THE EVOLUTION OF THE MECHANICAL PROPERTIES OF METALS DURING FATIGUE 67-10 M17-80017
THE BRITTLE FRACTURE RESISTANCE OF LOW CARBON STEELS IN RELATION TO PRELIMINARY LOAD CYCLING 67-11 M17-80645
THE STRESS CONCENTRATION SUSCEPTIBILITY OF LOW CARBON STEEL WELDED JOINTS DURING LOAD CYCLING 67-11 M17-80646
ENGINEERING APPLICATIONS OF FRACTOGRAPHY 67-11 M17-80688
THE ROLE OF CROSS-SLIP IN BRITTLE FRACTURE AND FATIGUE 67-11 M17-81034
THE CRACK PROPAGATION IN TWO ALUMINIUM ALLOYS, IN AN INDOOR AND AN OUTDOOR ENVIRONMENT, UNDER RANDOM AND PROGRAMMED LOAD SEQUENCES 67-12 M17-82473
THE MICROYIELD STRENGTH OF BERYLLIUM-IRON ALLOYS 67-12 M17-82588
THE MECHANISM OF STAGE 1 CRACK PROPAGATION IN FATIGUE 67-12 M17-82725
LOW STRAIN RATE, HIGH STRAIN FATIGUE OF ALUMINUM AS A FUNCTION OF TEMPERATURE 67-12 M17-82855
THE STRESS DEPENDENCE OF DISLOCATION VELOCITY IN THE MICROSTRAIN REGION 67-12 M17-82877
NUMERICAL ANALYSIS OF CRACK PROPAGATION IN CYCLIC-LOADED STRUCTURES 67-12 M17-83239
A STUDY OF THE LAW OF CRACK PROPAGATION 67-12 M17-83242
CYCLICAL HEATING
SEE THERMAL CYCLING
CYCLONE SEPARATORS
HEAVY LIQUID CYCLONE CONCENTRATION OF MINERALS. PT. 1. A STUDY OF LIQUID CYCLONE VARIABLES INFLUENCING THE CONCENTRATION OF MINERALS 67-08 M03-75777
CYCLOTRONS
MAGNETOACOUSTIC STUDY OF THE RHENIUM FERMI SURFACE 67-11 M15-81385
CYLINDER BLOCKS
SEE ENGINE BLOCKS
CYLINDER HEADS, CASTING

TREATMENT OF CUPOLA IRON WITH FERROCERIUM
67-02 M17-61184
EFFICIENT MELTING AND CASTING METHODS IN THE MASS PRODUCTION OF LIGHT-METAL CASTINGS
67-06 M06-71190
SOURCES OF BLOWHOLES IN CYLINDER HEAD CASTINGS FOR THE DT-54 ENGINE 67-08 M06-74544
LOW PRESSURE FOR QUALITY DIE CASTINGS
67-12 M06-81925

CYLINDER HEADS, MACHINING
DIAMOND HONING OF ANODIZED ALUMINUM ALLOYS
67-12 M08-81997

CYLINDER LINERS
ALUMINUM ENGINE TECHNOLOGY--WHERE IS IT NOW
67-05 M20-68468

CYLINDER LINERS, CASTING
WEAR-RESISTANT CYLINDER SLEEVES
67-07 M06-74051
SPRAY GATING SYSTEMS 67-12 M06-83044

CYLINDER LINERS, MACHINING
DIAMOND HONING OF QUENCHED CAST IRON CYLINDER LINERS 67-04 M08-66632

CYLINDER LINERS, MECHANICAL PROPERTIES
COMPARING THE PROPERTIES AND STRUCTURE OF GRAY IRON IN CASTINGS AND SPECIMENS 67-05 M06-69040

CYLINDER LINERS, WEAR
EFFECT OF COOLANTS ON THE MICROSTRUCTURE OF THE SURFACE LAYERS OF CAST-IRON RUBBING PAIRS
67-01 M17-57999
CAST IRON FOR TRACTOR ENGINE LINERS
67-06 M17-71395

CYLINDER MACHINES
SEE PAPER MACHINES

CYLINDERS
DETERMINING RESIDUAL STRESSES IN COATINGS BUILT UP ON CYLINDERS AND DISKS 67-03 M17-65101

CYLINDERS, CASTING
PROSPECTS FOR USING CAST CYLINDERS IN DRILLING HAMMERS 67-02 M06-59176
PROSPECTS FOR THE USE OF CAST CYLINDERS IN DRILLING HAMMERS 67-10 M06-78885

CYLINDERS, COATING
AUTOMATIC METALLIZING OF BUTANE BOTTLES
67-11 M12-81400

CYLINDERS, EXTRUSION
DETERMINING THE HIGHEST DEGREE OF DEFORMATION DURING REDUCTION OF HOLLOW CYLINDRICAL BILLETS IN A TAPERED DIE 67-04 M08-67040

CYLINDERS, FORMING
STUDY OF ENERGY-FORCE PARAMETERS IN FORMING CYLINDERS 67-08 M08-75481
DETERMINING THE CONTACT SURFACE IN FORMING THE BASES OF OXYGEN CYLINDERS 67-10 M07-78977

CYLINDERS, MACHINING
A TWO-MILE COPPER TUBE FOR THE WORLDS LARGEST LINEAR ELECTRON ACCELERATOR 67-03 M20-65498
HONING LARGE CYLINDERS 67-08 M08-75944

CYLINDERS, MAGNETIC PROPERTIES
MAGNETIC DEFORMATION OF CYLINDRICAL WORKPIECES
67-08 M15-75675

CYLINDERS, MECHANICAL PROPERTIES
A METHOD OF COMPARING THE EFFECTIVENESS OF THE HARDENING OF MACHINE PARTS WITH THE RESULTS OF SAMPLE TESTS 67-04 M17-68082
EXPERIMENTAL BUCKLING OF INTERNAL INTEGRAL RING-STIFFENED CYLINDERS 67-06 M17-71152
EFFECT OF THE STRAIN RATE ON THE PLASTIC SHEARING BEHAVIOR OF A MILD STEEL HOLLOW CYLINDER --STUDY ON THE DEPENDENCE OF MECHANICAL PROPERTIES OF METALS UPON THE STRAIN RATE. PT. 3. --
67-07 M17-72523
FATIGUE OF THICK CYLINDERS--FURTHER PRACTICAL INFORMATION 67-07 M17-74087
STEADY-STATE CREEP ANALYSIS OF THICK-WALLED ORTHOTROPIC CYLINDERS 67-09 M17-76449

CYLINDERS, METAL WORKING
DEEP DRAWING OF CYLINDRIC PARTS FROM CONIC BILLETS
67-10 M07-78548

CYLINDERS, NONDESTRUCTIVE TESTING
MANUFACTURE AND INSPECTION OF THE ALUMINUM ALLOY CYLINDERS FOR COMPRESSED GASES BY THE NEW STANDARDS 67-06 M19-71446

CYLINDERS, STRESSES
DETERMINATION OF THE RESIDUAL STRESSES IN COATINGS DEPOSITED ON CYLINDERS AND DISCS
67-07 M17-72791

CYLINDERS, WELDING
A TECHNOLOGY FOR WELDING UP CRACKS IN HIGH-PRESSURE STEAM TURBINE CYLINDERS 67-02 M11-61044
BONDING OF ALUMINUM BY THE CAPACITOR DISCHARGE MAGNETIC FORMING PROCESS 67-09 M11-77948

CYLINDRICAL GRINDING
HIGH-SPEED GRINDING HALVES MACHINING TIME
67-02 M08-61857

CZOCHRALSKI PROCESS
SEE CRYSTAL GROWTH
CRYSTAL PULLING
SINGLE CRYSTALS

D C
SEE DIRECT CURRENT

D C MOTORS
MAGNETS MADE OF THE PERMANENT MAGNET MATERIALS OXIT AND OXILIT FOR THE FIELD EXCITATION OF D-C MOTORS 67-08 M20-75068

D H PROCESS
SEE VACUUM DEGASSING

DAMAGE
ENERGY DEPENDENCE OF ANISOTROPY OF DEFECT PRODUCTION IN ELECTRON IRRADIATED DIAMOND-TYPE CRYSTALS. PT. 1. EXPERIMENTAL MEASUREMENTS ON N- AND P-TYPE SILICON 67-01 M16-57944
THE EXPERIMENTAL OBSERVATION OF DISLOCATIONS AND RADIATION DAMAGE IN CRYSTALS BY SURFACE METHODS AND DECORATION TECHNIQUES 67-04 M13-67303
THE EXPERIMENTAL STUDY OF POINT DEFECTS IN PURE METALS 67-04 M13-67310
THE FERROMAGNETIC AFTER-EFFECT IN IRRADIATED NICKEL, AND ITS APPLICATION TO THE STUDY OF POINT DEFECTS IN FCC METALS 67-04 M13-67318
FISSION DAMAGE IN METALS 67-04 M13-67320
THE INFLUENCE OF REACTOR IRRADIATION AND THERMAL ANNEALING ON SOME STAINLESS STEELS
67-04 M14-67105
MOBILITY OF POINT DEFECTS IN GERMANIUM
67-04 M14-67307
EFFECTS OF NEUTRON-RADIATION ON MAGNETIC MATERIALS
67-04 M15-67319
ELECTRON RADIATION DAMAGE IN SEMICONDUCTORS AND METALS 67-04 M16-67299
RADIATION DAMAGE IN SOLIDS 67-04 M16-67301
THE OBSERVED NATURE OF PRIMARY DAMAGE
67-04 M16-67304
DYNAMIC STAGES OF RADIATION DAMAGE
67-04 M16-67305
RADIATION EFFECTS IN SEMICONDUCTORS
67-04 M16-67306
ELECTRON-INDUCED RADIATION DAMAGE IN PURE METALS
67-04 M16-67311
RADIATION DAMAGE IN BODY-CENTERED METALS
67-04 M16-67314
DIRECT OBSERVATION OF FISSION FRAGMENT DAMAGE IN SOME CERAMIC OXIDES 67-04 M16-67459
NEUTRON DAMAGE TO REACTOR MATERIALS
67-04 M17-67215
LOW-TEMPERATURE IRRADIATION STUDIES
67-04 M17-67312
RADIATION-DAMAGE STUDIES USING DISLOCATION PROPERTIES 67-04 M17-67316
FISSION FRAGMENT DAMAGE IN TUNGSTEN
67-05 M16-68761
ENERGY DEPENDENCE OF NEUTRON DAMAGE IN SILICON
67-05 M16-69216
INTERACTION OF RADIATION DEFECTS WITH DISLOCATIONS IN GERMANIUM 67-06 M13-71763
DEUTERON-IRRADIATION EFFECTS IN AL-4 WT. PER CENT CU 67-06 M14-70438
THE SURFACE DAMAGE OF HIGH OUTPUT GALLIUM ARSENIDE LASERS 67-07 M16-72923
MECHANISMS OF RADIATION DAMAGE IN REACTOR MATERIALS 67-07 M16-73374
COMPUTER STUDIES OF NEUTRON IRRADIATION AND ANNEALING IN FINITE BCC IRON SPECIMENS
67-07 M16-73377
EFFECTS OF IRRADIATION IN IRON AND STEELS
67-07 M17-73378
RELATIONSHIPS OF DAMAGE LIABILITY IN AUSTENITIC STEEL AT HIGH TEMPERATURES 67-07 M17-73471
EVIDENCE FOR DAMAGE REGIONS IN SI, GAAS, AND INSB SEMICONDUCTORS BOMBARDED WITH HIGH-ENERGY NEUTRONS 67-10 M16-79168
SUPPORTING EVIDENCE FOR LONG-RANGE DEFECT MIGRATION IN THE STAGE-1 RECOVERY OF COPPER
67-10 M16-79413
ELECTRON RADIATION DAMAGE IN CADMIUM-SELENIDE CRYSTALS AT LIQUID-HELIUM TEMPERATURE
67-10 M16-79419

DAMAGE

INVESTIGATION OF SURFACE BOMBARDMENT DAMAGE BY LEED 67-10 M16-79546
EFFECTS OF VARIOUS DOPING TREATMENTS UPON THE DAMAGE PRODUCTION AND RECOVERY OF DEUTERON-IRRADIATED ALUMINUM 67-11 M16-81392
ON THE NATURE OF DAMAGES IN INDIUM ANTIMONIDE PRODUCED BY GAMMA- AND X-IRRADIATION 67-12 M16-82019
DAMAGE FORMATION RATES IN GE SUBJECT TO THERMAL TREATMENT 67-12 M16-82020
ANNEALING SPECTRUM OF ELECTRON-IRRADIATED NIOBIUM AND TANTALUM FROM 13 TO 301 K 67-12 M16-82525

DAMAGE, HEATING EFFECTS
THE ANNEALING OF IRRADIATION DAMAGE IN GRAPHITE 67-02 M15-59054

DAMAGING
SEE DAMAGE

DAMPING
DAMPING PEAKS IN DEFORMED NICKEL 67-03 M17-65867
MAGNETIC ULTRASONIC ATTENUATION IN NICKEL AND COBALT 67-05 M15-69716
A ZENER-DAMPING PEAK IN FE-4 WT PER CENT SI 67-05 M17-69770
THE ORIENTATION DEPENDENCE OF DISLOCATION DAMPING IN ZINC 67-06 M14-69939
INVESTIGATION OF THE TRANSFORMATION BEHAVIOR OF IRON-MANGANESE ALLOYS BY DAMPING MEASUREMENTS IN THE REGION OF 1 CYCLE/SEC 67-06 M14-70259
AN INTERNAL FRICTION PEAK IN POLYCRYSTALLINE GADOLINIUM 67-06 M15-71046
DISLOCATION DAMPING IN ZINC SINGLE CRYSTALS 67-07 M14-72886
DISLOCATION DAMPING IN ALUMINUM AT HIGH STRAIN RATES 67-08 M17-75127
THE COLD-WORK DAMPING PEAK IN ALPHA-IRON 67-09 M17-77930
ON THE DAMPING MECHANISM OF ELASTIC VIBRATIONS IN PHASE TRANSFORMATIONS IN COPPER AND COBALT-BASE ALLOYS 67-10 M14-80086
FREQUENCY DEPENDENCE OF DISLOCATION DAMPING IN SINGLE-CRYSTAL COPPER 67-11 M17-81093
THE DIFFUSION OF CARBON IN NICKEL ABOVE AND BELOW THE CURIE TEMPERATURE 67-12 M14-82969
ULTRASONIC EXTINCTION IN MONO- AND POLYCRYSTALLINE FE IN THE PULSE-ECHO PROCESS 67-12 M17-82667

DAMPING, ALLOYING EFFECTS
INFLUENCE OF ALLOYING ON DAMPING OF ULTRASOUND IN MAGNESIUM ALLOYS 67-10 M17-79144

DAMPING, STRESS EFFECTS
EFFECT OF DEFORMATION ON ULTRASONIC DAMPING IN MOLYBDENUM AND NIOBIUM SINGLE CRYSTALS 67-10 M15-79909

DAMPING, TEMPERATURE EFFECTS
DISLOCATION PINNING AND TEMPERATURE DEPENDENCE OF INTERNAL FRICTION 67-12 M17-82367

DAMPING CAPACITY
THE EFFECT OF MN CONTENT ON THE DAMPING BEHAVIOR OF N-CONTAINING FERROUS ALLOYS 67-01 M17-57382
INVESTIGATION OF DAMPING IN NITRIDED FE-MO AND FE-V ALLOYS 67-01 M17-57383
INFLUENCE OF PREVIOUS STRESSING ON THE DAMPING CAPACITY OF A MG-ZR ALLOY SHOWING A TWINNING PHENOMENON 67-02 M15-61021
DISLOCATION DAMPING IN ALUMINIUM-COPPER ALLOYS.. A QUANTITATIVE ANALYSIS 67-02 M17-58964
DAMPING CAPACITY OF CAST IRON 67-02 M17-61566
CONTRIBUTION TO THE INVESTIGATION OF INTERNAL FRICTION IN BERYLLIUM 67-03 M17-65262
EFFECT OF ALLOYING AND PROCESSING ON DAMPING OF ULTRASONIC VIBRATIONS IN MG ALLOYS 67-03 M17-65791
THE EFFECT OF ANNEALING TEMPERATURE AND PURITY ON HIGH-TEMPERATURE INTERNAL FRICTION IN NICKEL 67-04 M15-66842
STUDY OF THE EFFECT OF CONSTANT SHEAR STRESS ON AMPLITUDE-DEPENDENT INTERNAL FRICTION 67-04 M15-66864
THE MECHANICAL DAMPING OF IRON FROM ROOM TEMPERATURE TO 400 C. AT 7 MEGACYCLES/SEC 67-04 M17-66051
ANELASTICITY MEASUREMENTS IN THE MG-CD ALLOY SYSTEM 67-04 M17-66535
AMPLITUDE DEPENDENCE OF THE INTERNAL FRICTION OF IRON 67-04 M17-66843
TORSION PENDULUM FOR THE MEASUREMENT OF INTERNAL FRICTION IN BULK SAMPLES OF STEEL AT LOW FREQUENCIES 67-04 M17-67192
INTERNAL FRICTION ON THE ALPHA-GAMMA TRANSFORMATION OF IRON. PT. 3 67-04 M17-67643
FATIGUE STRENGTH CRITERIA OF METALS AND ALLOYS BASED ON ENERGY DISSIPATION 67-04 M17-67819
THE RELATION BETWEEN DAMPING BEHAVIOR AND CONSTITUTION OF QUENCHED ALUMINIUM-COPPER-MAGNESIUM-SILICON ALLOYS 67-05 M15-68694
ORIENTATION DEPENDENCE OF DISLOCATION DAMPING IN MAGNESIUM SINGLE CRYSTALS 67-07 M17-72659
FATIGUE STRENGTH AND DAMPING CHARACTERISTICS OF MAGNESIUM IRON FOR MOTORCYCLE CRANKSHAFTS 67-07 M17-74046
INVESTIGATIONS ON THE DEFORMATION AGE HARDENING OF NITROGEN CONTAINING PURE IRON BY MEASURING THE DAMPING CAPACITY AND STRENGTH 67-09 M14-77350
DISCERNING THE QUALITY CHARACTERISTICS OF LOW-CARBON STEELS BY DAMPING MEASUREMENTS 67-09 M17-77353
HIGH TEMPERATURE RELAXATION PEAKS IN COPPER AND ALUMINIUM 67-09 M17-77921
THE MAGNETOELASTIC INTERNAL DAMPING IN IRON 67-10 M15-79482
CAST IRONS WITH LAMINATED AND GLOBULAR GRAPHITE AS CONSTRUCTION MATERIALS IN MACHINE DESIGN 67-10 M17-79699
METALLIC, SOFT-MAGNETIC MATERIALS FOR ULTRASONIC TRANSDUCERS 67-11 M15-80867
GRAIN-BOUNDARY DAMPING IN 16 AND 22.5 PER CENT CHROMIUM-IRON ALLOYS 67-11 M17-80108
FATIGUE STRENGTH AND DAMPING PROPERTIES OF WELDMENTS OF KH17N2 AND D15L STEELS 67-12 M17-82632
RESEARCH INTO THE DAMPING PROPERTIES OF CERTAIN HIGH-MELTING METALS AT HIGH TEMPERATURES IN A VACUUM 67-12 M17-83303

DAMPING CAPACITY, ALLOYING EFFECTS
ON THE DAMPING CAPACITY OF MG AND ITS ALLOYS 67-05 M17-68864

DAMPING CAPACITY, HEATING EFFECTS
THE BEHAVIOR OF SOME --ALPHA PLUS BETA-- TI ALLOYS UNDER STATIC AND DYNAMIC STRESS AT ELEVATED TEMPERATURES 67-05 M17-68514

DAMPING CAPACITY, IMPURITY EFFECTS
INFLUENCE OF NITROGEN ON MAGNETOMECHANICAL DAMPING IN CHROMIUM 67-07 M17-72654
THE EFFECT OF PHOSPORUS ON THE DAMPING BEHAVIOR OF CAST IRON 67-09 M17-77007

DAMPING CAPACITY, TEMPERATURE EFFECTS
THE RELATION BETWEEN DAMPING BEHAVIOR AND CONSTITUTIONAL OF QUENCHED ALUMINUM-COPPER-MAGNESIUM-SILICON ALLOYS 67-08 M17-76210

DAMPNESS
SEE MOISTURE CONTENT
WATER

DATA STORAGE
CRYSTALLOCHEMICAL CAUSES OF CONTROL OF MAGNETIC INDUCTION OF FERRITES 67-06 M15-71479
RECORDING CHARACTERISTICS OF THICK COBALT-ZINC-PHOSPHORUS FILMS 67-07 M12-74126
ANHYSTERETIC MAGNETIZATION OF NI-FE TAPE CORES 67-07 M15-73539
PULSE INVESTIGATIONS OF MAGNETIC MULTILAYER STORAGE ELEMENTS AND NI-FE FILMS WITH DIFFUSED CU 67-07 M15-73806
CRUCIBLES SYSTEM OF RAPID CHEMICAL ANALYSIS FOR METALLURGICAL RESEARCH 67-07 M19-73091
MAGNETIC RECORDING MATERIALS 67-07 M20-73540
CARBONYL METHOD FOR PRODUCTION OF FINE AND UNIFORM IRON OXIDE POWDERS 67-08 M09-74301
PLATED-WIRE MEMORIES--UNIVACS BET TO REPLACE TOROIDAL FERRITE CORES 67-08 M12-74474
EVAPORATION OF PERMALLOY BY ELECTRON BOMBARDMENT 67-08 M14-75158
FABRICATION OF COMPUTER MEMORY STORES BY ELECTROPHORESIS--DEPOSITION OF FERRITES ON TO PLATINUM WIRES 67-10 M12-78721
CRITICAL PARAMETERS OF EVAPORATED NIFE FILMS FOR FAST STORES 67-10 M15-78868
CRYSTAL CHEMICAL CAUSES OF CONTROL OF THE MAGNETIC INDUCTION OF FERRITES 67-12 M15-82800
THE STABILITY OF CYLINDRICAL PERMALLOY FILMS IN AN INHOMOGENEOUS MAGNETIC FIELD 67-12 M15-83011

DEAERATION
POSSIBLE DENSIFICATION OF DRY QUARTZITE MASS IN THE REFRACTORY LINING OF INDUCTION FURNACES 67-05 M04-69313

DEAGGLOMERATION
SEE DEFLOCCULATING

DEALUMINIZATION
HOT REMOVAL OF ALUMINUM FROM CUPRO-ALUMINUMS--A CASE STUDY 67-09 M10-77396
DEBURRING
USE OF ELECTROMACHINING OPERATIONS IN INDUSTRIAL PRODUCTION. PT. 2. APPLICATIONS 67-01 M08-58718
AUTOMATED DEBURRING SYSTEM SPEEDS PRODUCTION OF POWDER METAL PARTS 67-01 M12-58549
ELECTROLYTIC POLISHING AND DEBURRING 67-01 M12-58611
DEBURRING AND SURFACE FINISHING 67-03 M12-65725
ELECTROCHEMICAL DEBURRING--BAD NEWS FOR TOUGH BURRS 67-04 M08-66580
FLEXIBLE LINE MAKES QUALITY PUMP GEARS 67-06 M08-71204
TIKI GEAR DE-BURRING MACHINE 67-06 M12-71325
PROGRESS IN THE FIELD OF ELECTROLYTIC POLISHING AND DEBURRING 67-09 M12-76700
VIBRATORY FIXTURE PROCESSING 67-09 M12-77187
CHEMICAL-ENERGY DEBURRING AS APPLIED TO FUNCTIONAL COMPONENTS 67-10 M12-79190
CUTTING BURRS AND METHODS OF MEASUREMENT 67-10 M19-79491
A DISCUSSION OF ELECTROCHEMICAL DEBURRING 67-12 M08-82954
PRECISION DEBURRING CONDITIONS WORKPIECES WITHOUT DISTORTION OR CHANGE OF DIMENSION 67-12 M12-82380
DEBYE SCHERRER METHOD
X-RAY STUDY OF COLD-WORKED SILVER-ANTIMONY ALLOYS 67-01 M13-57413
TECHNIQUE FOR OBTAINING POWDER PATTERNS FROM SINGLE CRYSTAL SPHERES 67-02 M13-58902
X-RAY STUDY OF COLD WORK AND RECOVERY IN SOME HCP METALS AND ALLOYS 67-11 M13-80377
INDENTIFACTION BY X-RAY DIFFRACTION OF HYDRATED CRYSTALLIZED GALLIUM SULFATE. ISOTOPIC RELATION IN THE SERIES OF CHROMIUM, ALUMINUM AND GALLIUM SULFATES 67-12 M13-82236
NEW COMPOUND FORMED ON A GRAPHITE ANODE DURING THE ANODE EFFECT IN CRYOLITE SOLUTIONS OF OXIDES AT 1025 C 67-12 M19-82237
DEBYE SCHERRER POWDER METHOD
SEE DEBYE SCHERRER METHOD
DEBYE SCHERRER X RAY ANALYSIS
SEE DEBYE SCHERRER METHOD
DEBYE TEMPERATURE
CALCULATIONS OF DISPERSION CURVES AND SPECIFIC HEAT FOR LIF AND NACL USING THE BREATHING SHELL MODEL 67-11 M14-80616
EVALUATION OF THE DEBYE TEMPERATURE OF THORIUM DIOXIDE 67-11 M15-80603
AN EXPERIMENTAL EQUATION OF STATE FOR ALUMINUM TO THE DEBYE APPROXIMATION 67-11 M15-81672
DECARBONIZING
OXIDATION PROCESSES IN THE CONVERTER POOL 67-02 M04-60057
SINGULARITIES OF THE DECARBURIZATION OF AN IRON-CHROMIUM MELT WHEN BLOWING WITH GAS 67-02 M04-60062
PREDICTING CARBON OXIDATION RATE IN THE CHARGE MELTING PERIOD IN A BASIC OPENHEARTH FURNACE 67-02 M04-61208
OXIDATION OF CARBON DURING OXYGEN BLOWING OF A HIGH-CHROMIUM BATH 67-02 M04-61744
RIMMING INTENSITY OF OPENHEARTH POOL IN RELATION TO STATE OF HEARTH BOTTOM SURFACE AFTER COMPLETE MELTING OF CHARGE 67-02 M04-62262
CARBURIZING IRON IN THE CUPOLA 67-02 M06-60076
INTERACTION OF OXYGEN WITH HOT TUNGSTEN 67-02 M14-60587
DISSOLUTION OF OXYGEN IN IRON-CARBON MELT DURING DECARBURIZATION 67-04 M04-66075
APPARENT ACTIVATION ENERGY OF DECARBONISATION OF FE-C MELTS 67-04 M14-66308
DECARBURIZATION AND SINTERING OF BRIQUETS IN VACUUM-THERMAL PRODUCTION OF CARBON-FREE FERROCHROMIUM 67-05 M04-69686
DETERMINATION OF DECARBONIZING RATES IN OPENHEARTH MELTING BY THE CHEMICAL COMPOSITION OF GAS 67-06 M04-71247
DEOXIDATION AND REFINING OF STEEL IN ARC FURNACES OF VARIOUS CAPACITY 67-06 M04-71252
REMOVAL OF SILICON DURING CARBON ELIMINATION FROM LIQUID IRON USING STEAM-ARGON MIXTURES 67-06 M04-72391
CALCULATING CARBON IN THE OPENHEARTH BATH 67-06 M19-70739
MECHANISM AND RATE OF THE REACTIONS IN THE BASIC OXYGEN PROCESS. PT. 1-2 67-07 M04-72702
THE METALLURGY OF THE BASIC OXYGEN PROCESSES 67-07 M04-72892
DECARBURIZATION AND SINTERING BRIQUETTES IN THE VACUUM THERMAL PRODUCTION OF CARBON-FREE FERROCHROMIUM 67-07 M04-74072
AUTOMATIC CONTROL OF OPENHEARTH MELTING WHEN OXYGEN IS USED 67-08 M04-74348
DETERMINING RATE OF OXIDATION OF CARBON DURING OPENHEARTH FURNACE HEATS FROM COMPOSITION OF FLUE GASES 67-08 M04-75716
DEOXIDATION AND REMOVAL OF IMPURITIES IN VARIOUS SIZES OF ARC FURNACES 67-08 M04-75721
ON THE KINETICS OF HYDROGEN ATTACK OF STEELS 67-08 M14-76050
HYDRODYNAMIC FACTORS AND KINETICS OF THE DECARBURIZATION OF COMPLEX MELTS 67-09 M04-77854
SIMULATING THE EXPLOSIVE REACTION OF CARBON OXIDATION IN CONVERTER WITH BOTTOM BLOWING 67-09 M04-77857
OXYGEN LANCING IN THE OPEN HEARTH 67-09 M04-78134
THE CARBURIZATION OF IRON MELTS IN THE GRAPHITE CRUCIBLE, ANOTHER EXAMPLE OF THE PARTICULARITIES OF METALLURGICAL REACTIONS 67-10 M04-79057
FACTORS AFFECTING DECARBURIZATION RATE AND OXYGEN CONTROL IN THE BASIC OH METHOD 67-10 M04-79097
CONSIDERATION ON DECARBURIZATION REACTION IN AN OXYGEN CONVERTER AND THE POSIBILITY OF COMPUTING CONTROL ON ITS BASIS 67-11 M04-80748
OXIDIZING THE CARBON OF FERROCHROMIUM DURING OXYGEN BLOWING IN THE CONVERTER 67-11 M04-80858
RATE OF DECARBURIZATION AND DECARBURIZATION IN STEELMAKING IN THE OXYGEN CONVERTER 67-11 M04-81373
RELATIONSHIP BETWEEN METAL CARBON CONTENT AND FERROUS OXIDES IN THE SLAG 67-11 M04-81403
SLAG CONDITIONS IN OPENHEARTH STEELMAKING WITH OXYGEN LANCED TO FLAME AND BATH 67-11 M04-81404
DECARBURIZATION AND HEATING OF METAL WHEN BLOWING THE POOL WITH COMPRESSED AIR 67-12 M04-81707
EXPERIMENTS IN THE REMELTING OF REFINED FERROCHROME IN A MULTIPLE-CHAMBER ELECTRON BEAM FURNACE 67-12 M04-82693
DEVELOPMENT AND OPERATION OF BOF DYNAMIC CONTROL. PT. 1 67-12 M04-82884
ON DECREASING THE CARBON CONTENT IN MAGNESIUM CAST IRON 67-12 M06-81979
DECARBONIZING, AUTOMATION
A METHOD OF MODULATING THE PARAMETERS OF FIRING OPENHEARTH FURNACES TO DETERMINE THE CARBON OXIDATION RATE 67-08 M04-74328
DECARBONIZING, OXYGEN STEEL MAKING
DECARBURIZATION OF A CONVERTER POOL 67-08 M04-74330
DECARBONIZING, STEEL MAKING
SOME ASPECTS OF CARBON AND SILICON OXIDATION IN BESSEMER CONVERSIONS 67-10 M04-79819
DECARBURIZING
OXYGEN BLOWING OF METAL WITH ADDITION OF FUEL 67-01 M04-57178
A MATHEMATICAL EXPRESSION OF THE KINETIC MECHANISM OF JOINT OXIDATION OF CARBON AND CHROMIUM WHEN BLOWING A HIGH-CHROMIUM POOL WITH OXYGEN 67-01 M04-57179
QUENCHING SALT FOR THE HEAT TREATMENT OF HIGH-SPEED STEEL AND POSSIBILITIES OF REDUCING ITS DECARBURIZING EFFECT 67-02 M10-58862
QUENCH HEATING OF STRUCTURAL STEELS IN MOLTEN NACL AND KCL SALTS 67-02 M10-60851
STUDY OF THE WORKS OF CARBURIZATION AND DECARBURIZATION OF TUNGSTEN RIBBONS BY THE MEASURE OF THEIR CONDUCTIVITY 67-02 M10-60984
DECARBURIZING OF STEEL IN SALT BATHS 67-02 M10-61984
INTERACTION BETWEEN CR COATING AND THE SURFACE LAYER OF THE BASE METAL UPON HEATING 67-02 M12-60853
IMPROVING THE ENAMELABILITY OF STEELS BY DECARBURIZING ANNEALING 67-02 M12-60995
KINETIC STUDY OF THE DECARBURIZATION OF LIQUID IRON 67-02 M14-61851
INFLUENCE OF DECARBURIZING ON THE PROPERTIES OF

CARBURIZED STEELS 67-02 M17-60850
THE ROLE OF HYDRODYNAMIC FACTORS IN THE DECARBURIZATION OF STEEL 67-03 M04-65953
POSSIBILITIES OF MEASURING AND REGULATING THE C-POTENTIAL DURING GAS-CARBURIZING AND ITS PRACTICAL SIGNIFICANCE 67-03 M10-65175
EFFECT OF NICKEL ON CARBON AND CHROMIUM BEHAVIOR IN THE PRODUCTION OF HIGH-CHROMIUM AND HIGH-NICKEL STAINLESS STEELS USING OXYGEN 67-04 M04-66026
RESEARCH ON TECHNOLOGY FOR PRODUCING STEEL IN ARC FURNACES WITH A PRELIMINARY REDUCING PERIOD 67-04 M04-66903
MODELING THE DESULFURIZATION PROCESS IN THE BATH OF A CONVERTER TOP-BLOWN WITH OXYGEN 67-04 M04-67240
RATE OF DECARBURIZATION OF MOLTEN IRON-CARBON ALLOYS WITH OXIDIZING GAS 67-04 M04-67555
COMPUTERIZED CONTROL OF THE BASIC OXYGEN LD PROCESS. PT. 1. THE CARBON ELIMINATION REACTION IN THE BASIC OXYGEN LD FURNACE AND THE POSSIBILITY OF CONTINUOUS DETERMINATION OF THE BATH CARBON CONTENT 67-05 M04-69062
INTENSIFYING THE OPENHEARTH SCRAP PROCESS BY BLOWING THE BATH WITH COMPRESSED AIR 67-05 M04-69897
CONTROL OF DECARBURIZATION PROGRESS IN OXYGEN REFINING OF HOT METAL--CONTINUOUS DETERMINATION OF CARBON COMBUSTION RATIO IN KALDO PROCESS 67-06 M04-70820
INVESTIGATION INTO VARIOUS PHENOMENA IN THE BASIC OXYGEN LD FURNACE, USING ROOM TEMPERATURE MODELS 67-06 M04-72212
EFFECT OF COKE POROSITY ON CARBON CONTENT IN CUPOLA CAST IRON 67-06 M06-70294
A METHOD OF HEAT TREATING TRANSFORMER STEEL 67-06 M10-70347
A METHOD OF HEAT TREATING TRANSFORMER STEEL 67-06 M10-70348
OPEN-COIL ANNEALING AT EBBW VALE 67-06 M10-71808
SOME EXPERIMENTS ON THE DECARBURIZATION AND DENITRIDATION OF STEEL SHEET 67-06 M10-72129
CONTRIBUTION TO THE STUDY OF SIMULTANEOUS DECARBURIZATION AND REMOVAL OF NITROGEN FROM IRON MELTS 67-07 M04-72474
CONTRIBUTION TO THE STUDY OF DEPHOSPHORIZATION IN THE OXYGEN TOP-BLOWING CONVERTER 67-07 M04-72475
HEATING IN THE DROP FORGE. PT. 4. FORMATION AND PROPERTIES OF SCALES ON IRON-BASE ALLOYS 67-07 M07-73618
INVESTIGATION OF ENAMELABILITY OF DECARBURIZED CAST IRON 67-07 M12-73200
DEPTH OF THE DECARBURIZED AND QUENCHED LAYERS ON STEEL PRODUCTS CONTROLLED MAGNETICALLY BY MEASURING THE LOCAL FIELD FROM THE RESIDUAL MAGNETIZATION 67-08 M10-75444
HEATING OF STRUCTURAL STEELS TO QUENCHING TEMPERATURE IN MOLTEN NACL AND KCL 67-08 M10-76109
INTERACTION BETWEEN THE CHROMIUM COATING AND THE SURFACE LAYER OF THE METAL 67-08 M12-76111
INFLUENCE OF DECARBURIZATION ON THE PROPERTIES OF CASE HARDENED STEEL 67-08 M17-76108
THE PROBLEM OF H2 IN STEELS 67-08 M17-76292
REHEATING STEEL BY TURNING OVER IN FORGING FURNACES. PT. 1 67-09 M07-78300
DECARBURIZING AND SCALING OF TOOL STEEL BILLETS WHEN HEATED IN INDUCTION FURNACES 67-09 M10-76412
THE IMPORTANCE OF SURFACE TREATMENT DURING DECARBURIZING ANNEALING OF COMMERCIAL IRON 67-09 M10-77088
OXIDATION AND DECARBURIZATION OF STEEL WHEN ANNEALING IN A PROTECTIVE ATMOSPHERE OF PSO-09 GAS 67-09 M10-77641
OPEN-COIL ANNEALING 67-09 M10-77840
A RAPID METHOD OF DETERMINING THE DECARBURIZING ACTIVITY OF FUSED SALTS 67-09 M10-78158
DECARBURIZATION AND DEOXIDATION PROCESSES IN LIQUID IRON 67-09 M14-77081
DECARBURIZING TRANSFORMER STRIP IN STRAIGHTWAY FURNACES 67-10 M10-78437
EFFECT OF CERTAIN PRODUCTION FACTORS ON THE PROPERTIES OF COIL TRANSFORMER STEEL 67-10 M10-78440
DECARBONIZATION OF STEEL IN SALT BATHS 67-10 M10-78841
RAPID HEATING OF STEEL FOR HOT WORKING. PT. 1 67-10 M10-79087
THE PRACTICE OF HEAT TREATMENT OF MALLEABLE CAST IRON 67-10 M10-79700
THE KINETICS OF THE DECARBURIZATION OF MALLEABLE CAST IRON INVESTIGATED BY MEASURING THE RADIOACTIVITY OF THE DECARBURIZING GAS 67-10 M14-79659
INTERGRANULAR FISSURIZATION --CRACKING-- OF STEEL --1 PER CENT C-- BY LIQUID LI 67-10 M14-79892
APPLICATION OF AN EQUIVALENCE BETWEEN TIME AND TEMPERATURE TO THE STUDY OF CARBURIZING AND DECARBURIZING 67-11 M10-80145
RAPID HEATING OF STEEL FOR HOT WORKING. PT. 2. RAPID HEATING BY JET IMPINGEMENT 67-11 M10-80675
OXIDATION AND ELIMINATION OF CARBON DURING ANNEALING IN A PSO-09 PROTECTIVE ATMOSPHERE 67-11 M10-80929
DECARBURIZATION OF IRON-CARBON MELTS IN CO2-CO ATMOSPHERES--KINETICS OF GAS-METAL SURFACE REACTIONS 67-12 M04-82955
LINEAR SHRINKAGE OF MALLEABLE IRON CASTINGS 67-12 M06-82620
COKE-OVEN GAS- AND NATURAL GAS-FIRED INDUSTRIAL FURNACES OF MORE RECENT DESIGN FOR THE DIRECT, SCALE-FREE HEATING OF STEEL 67-12 M10-81755
DECARBURIZATION OF TRANSFORMER STRIP IN THROUGH FURNACES 67-12 M10-83435
EFFECT OF CERTAIN TECHNOLOGICAL FACTORS ON PROPERTIES OF TRANSFORMER STEEL IN COILS 67-12 M10-83438

DECARBURIZING
FORMATION OF SURFACE CRACKS ON 4KH13 STEEL AND
FORMATION OF SURFACE CRACKS ON 4KH13 STEEL AND METHODS FOR THEIR PREVENTION
METHODS FOR THEIR PREVENTION 67-12 M17-83544
STUDY OF OXIDATION OF IRON-CARBON ALLOYS 67-12 M18-82446
RELATION BETWEEN OXIDATION AND DECARBURIZATION OF CAST IRON 67-12 M18-82450
A SPECTROGRAPHIC METHOD FOR MEASURING DECARBURIZATION OF STEEL 67-12 M19-83166

DECARBURIZING, DIFFUSION EFFECTS
DECARBURIZATION OF A LEVITATED IRON DROPLET IN OXYGEN 67-12 M04-82862

DECARBURIZING, HEATING EFFECTS
RAPID HEATING OF STEEL FOR HOT WORKING. PT. 3. THE METALLURGICAL EFFECTS OF RAPID HEATING 67-11 M10-81364

DECARBURIZING, STRESS EFFECTS
EFFECT OF STRESSES ON STEEL DECARBURIZATION 67-04 M14-66027
INFLUENCE OF ULTRASOUND ON THE STRUCTURE OF ALLOYS 67-06 M14-70055
EFFECT OF ULTRASONIC VIBRATIONS ON THE STRUCTURES OF ALLOYS 67-10 M14-78801

DECAY
THERMAL RELAXATION OF INDIUM FILMS ON INSULATING SUBSTRATES BETWEEN 4 AND 300 K 67-01 M15-57114
TRANSIENT CURRENT DECAY IN SEMICONDUCTING ZNO DUE TO THE ACOUSTO-ELECTRIC EFFECT 67-05 M16-69099

DECOMPOSING
SEE DECOMPOSITION

DECOMPOSITION
SEE ALSO DECOMPOSITION REACTIONS
EUTECTIC DECOMPOSITION
HYDROLYSIS
PYROLYSIS
RADIOLYSIS
KINETICS OF THE DECOMPOSITION OF A QUENCHED ALUMINUM-25 WT.- PER CENT ZINC ALLOY 67-02 M14-61839
LOW-TEMPERATURE DIFFUSION IN INERT-GAS BOMBARDED AL2O3 67-03 M14-65851
TOPOTAXY IN DECOMPOSITION OF CRO2 67-05 M15-68613
DECOMPOSITION OF QUENCHED AL-29 AT. PER CENT ZN 67-06 M13-71020
THE MICROSTRUCTURE OF AL-NI ALLOYS 67-07 M13-73801
THE DECOMPOSITION OF TUNGSTEN-CHROMIUM SOLID SOLUTION 67-07 M15-73905

DECOMPOSITION REACTIONS
SEE ALSO HYDROLYSIS
PYROLYSIS

RADIOLYSIS
STUDY OF THE FIRST STAGE IN THE DECOMPOSITION OF FERROUS OXIDE 67-01 M14-58018
EFFECT OF SEED CHARGE RATIO ON THE DECOMPOSITION OF ALUMINATE SOLUTIONS 67-02 M03-61280
A SURVEY OF DECOMPOSITION PROCESSES IN SUPERSATURATED FE-27 AT. PER CENT BE 67-03 M14-65083
A PROCESS FOR PREPARING TUNGSTIC TRIOXIDE OF HIGH PURITY FROM A CANADIAN SCHEELITE CONCENTRATE 67-03 M14-65567
INFLUENCE OF DISSOLVED BIVALENT CATIONS UPON THE DECOMPOSITION MECHANISM OF WUSTITE FE1-XO BELOW 600 C 67-04 M14-66298
CHARACTERISTICS OF SILICON CARBIDE PRODUCED BY THERMAL DECOMPOSITION OF TRIMETHYLCHLOROSILANE 67-05 M05-69570
THE TERNARY EQUILIBRIUM SYSTEM CU-MN-AL 67-05 M13-69851
INVESTIGATION OF THE PROCESSES OF DECOMPOSITION OF AUSTENITE IN 10KH8 CHROMIUM STEEL AT SUBCRITICAL TEMPERATURES 67-05 M14-68204
RESEARCH ON THE URANIUM-OXYGEN-CARBON SYSTEM 67-05 M14-68765
CERAMIC THERMOCHEMISTRY 67-05 M15-69139
DEFECT CHARACTERIZATION IN THE PRECIPITATION FROM CAO..YB203 CRYSTALLINE SOLUTIONS 67-06 M14-71166
TECHNOLOGY OF ELECTROLYTIC REDUCTION OF ALUMINA BY THE HALL-HEROULT PROCESS. PT. 4. CHEMICAL PROCESSES ASSOCIATED WITH THE ANODE EFFECT 67-07 M03-73610
A KINETIC ANALYSIS OF ZNS IN RELATION TO VISCOSE SPINNING 67-07 M14-73832
ON THE DECOMPOSITION OF CRO2 IN AIR 67-08 M14-76000
MATHEMATICAL MODELING OF THE PROCESS OF DECOMPOSITION OF ALUMINATE SOLUTIONS 67-09 M03-77113
SILVER DEPOSITION ON BATTERY SEPARATORS 67-09 M14-77145
FIELD EMISSION MICROSCOPIC OBSERVATION OF EFFECTS OF OXYGEN OR AIR ON THE HIGH TEMPERATURE TUNGSTEN CATHODE 67-09 M14-77878
KINETIC REACTIONS OF CO ON DIVIDED NICKEL 67-12 M14-82695
THERMAL DECOMPOSITION OF NICKEL CARBIDE --REACTIVITY OF NICKEL WITH CO IN THE PRESENCE OF FREE CARBON-- 67-12 M14-82696

DECOMPOSITION REACTIONS, TEMPERATURE EFFECTS
STABILITY OF THE HYDRIDES OF CERTAIN TRANSITION METALS WHEN HEATED IN VACUUM 67-06 M15-70160
THE VISCOSITY OF FUSIBLE GA-CD, GA-HG AND GA-BI DECOMPOSITION SYSTEMS 67-07 M15-72728

DECONTAMINATING
SEE DECONTAMINATION

DECONTAMINATION, RADIATION EFFECTS
RELATIONSHIP OF THE DEGREE OF DEACTIVATION OF ACID-RESISTANT STEEL CONTAMINATED WITH RADIOACTIVE COBALT TO ITS SURFACE STATE 67-10 M16-79651

DECOPPERIZATION
DECOPPERING OF LEAD 67-07 M03-73881
THE DECOPPERIZING OF LEAD. PT. 9 67-09 M03-77807

DECORATION
THE EXPERIMENTAL OBSERVATION OF DISLOCATIONS AND RADIATION DAMAGE IN CRYSTALS BY SURFACE METHODS AND DECORATION TECHNIQUES 67-04 M13-67303
ON THE PRECIPITATION OF COPPER IN SILICON CRYSTALS OF DIFFERENT REAL STRUCTURE 67-07 M14-73895

DECREASING
SEE REDUCTION

DEEP CARBURIZING
SEE CARBURIZING

DEEP DRAWABILITY
SEE DRAWABILITY

DEEP DRAWING
CALCULATING STRESSES IN DRAWING IN A RADIUS DIE 67-01 M07-57245
FORMING THE HIGH-STRENGTH STEELS 67-01 M07-58015
EXTRUSION AND FORMING UNDER HIGH FLUID PRESSURES 67-01 M07-58672
DEEP DRAWING OF COPPER AND COPPER ALLOYS 67-01 M07-58676
THE INFLUENCE OF THE PRODUCTION PROCESS ON EARING WITH BRASS 67-01 M08-57285
REPORT ON THE DEEP DRAWING OF PARTIALLY HARDENED ALUMINUM AND ITS ALLOYS 67-01 M08-57457
NEW TECHNIQUES IN RIGID METAL CONTAINER MANUFACTURE 67-01 M08-57548
NEW TRANSFER PRESSES WORK DOUBLE TIME 67-01 M08-58474
METAL FLOW IN DEEP DRAWING OF CUBE-TEXTURED COPPER 67-01 M17-58332
STEEL WORKING PROCESSES 67-02 M07-59628
INVESTIGATION OF PROCESSES TAKING PLACE IN N41KHTA ALLOY DURING THERMAL TREATMENT AND SHAPING 67-02 M08-58698
MECHANICAL PROPERTIES AND STRUCTURE OF METAL-CERAMIC SHEET MOLYBDENUM FOR DEEP DRAWING 67-02 M17-59406
HOT DEEP DRAWING--B&P EXPERIENCE 67-03 M07-65036
THE EFFECT OF ANISOTROPY AND WORK-HARDENING CHARACTERISTICS ON THE STRESS AND STRAIN DISTRIBUTION IN DEEP DRAWING 67-03 M07-65940
THE SELECTION OF LUBRICANTS IN DEEP DRAWING 67-03 M08-65727
THE MEASUREMENT OF FORCE FOR THE DETERMINATION OF OPTIMUM CONDITIONS IN DEEP DRAWING 67-03 M08-65758
RESEARCH ON THE FORMABILITY AND TESTING METHOD OF DEEP DRAWING STEEL SHEET 67-03 M08-65818
STUDY OF DEFORMATION DURING STAMPING OF BATH TUBS FROM 08SKVG SHEET STEEL 67-04 M07-66081
DEEP DRAWING 67-04 M07-66144
APPLICABILITY TO OTHER METALS OF DRAWABILITY TESTS WITH STEELS 67-04 M08-66398
THE DESIGN OF DRAWN SHEET METAL PARTS 67-04 M08-66562
USING THE FLOW RULE IN ANALYZING THE PROCESSES OF SHEET METAL STAMPING 67-04 M08-67039
FORMING ZN-CU-TI ALLOYS 67-04 M17-67140
TESTING THE COLD WORKABILITY OF MILD STEEL THIN SHEETS 67-04 M17-67210
EFFECT OF STRUCTURALLY-FREE CEMENTITE ON THE PROPERTIES OF COLD ROLLED MILD STEEL SHEET 67-05 M07-69439
DEEP DRAWING THICK ALUMINIUM 67-05 M08-68934
FLUID FORMING 67-05 M08-69568
SURFACE ROUGHNESS OF LOW-CARBON LIGHT GAGE COLD ROLLED STEEL AND ITS EFFECT ON THE STAMPING-DRAWING PROCESS 67-05 M08-69696
THE EXPLOSIVE DRAWING OF SQUARE AND FLAT-BOTTOMED CIRCULAR CUPS AND BUBBLE PULSATION PHENOMENA 67-05 M08-69741
THE EFFECT OF MATERIAL PROPERTIES ON DISHING AND DEEP DRAWING WITH CONSIDERATION OF DEEP DRAW TESTING 67-06 M07-70453
STUDY OF THE EFFECT OF MATRIX GEOMETRY ON DEEP DRAWING WITH EXPANSION 67-06 M07-70475
DEEP DRAWABILITY OF 08 SEMIKILLED STEEL SHEET 67-06 M07-70476
FACTORS IN SELECTING MATERIALS FOR FORMING 67-06 M07-70722
HYDROMECHANICAL DRAWING 67-06 M07-71899
INFLUENCE OF ADDITION ELEMENTS AND SPECIAL TREATMENTS ON THE ANISOTROPY AND DRAWABILITY OF EXTRA-SOFT RIMMING STEELS 67-06 M07-72018
THE TECHNOLOGICAL TESTING OF DEEP DRAWING AND BULGING ABILITY 67-06 M08-71272
THE DRAWING OF DEEP, CONE-SHAPED BODIES ON A MULTIPLE-DIE PRESS 67-06 M08-71563
THE DEEP DRAW TESTING OF SHEET METAL 67-06 M08-71564
THE ASEA-SAAB FLUID-FORMING METHOD AND EQUIPMENT 67-06 M08-72050
ASSESSING NORMAL ANISOTROPIC PLASTICITY OF SHEET METALS 67-06 M17-71897
SURFACE ROUGHNESS OF LOW-CARBON COLD-ROLLED SHEET STEEL AND THE EFFECT OF ROUGHNESS ON THE STAMPING-ELONGATION PROCESS 67-07 M08-74082
STRESS-STRAIN STATE IN DEEP DRAWN PARTS OF COMPLEX CONFIGURATIONS 67-07 M17-73442
DEEP FORMING PROBLEMS. TRY A RUBBER PUNCH 67-08 M07-74725
PRACTICAL DETERMINATION OF DEEP-DRAWABILITY 67-08 M07-75505
THE APPLICATION OF LARGE RIMMING STEEL INGOT TO COLD ROLLED DEEP DRAWING STEEL SHEET 67-08 M07-75802
STABILITY OF THE DRAWING PROCESS IN PLASTIC SHAPING OF ANISOTROPIC METAL 67-08 M08-75484
PRODUCTION PROBLEMS INHERENT TO SURFACE CONDITIONS OF LOW-CARBON STEEL SHEET USED FOR DEEP DRAWING 67-09 M08-78004

DEEP DRAWING

DENITRIDING OF STEEL COILS FOR DEEP DRAWING IN REACTIVE ATMOSPHERES. RELATIONSHIP BETWEEN RESIDUAL NITROGEN AND AGING 67-09 M10-78294
DEEP DRAWING OF CYLINDRIC PARTS FROM CONIC BILLETS 67-10 M07-78548
HYDROFORMING HIGH TEMPERATURE ALLOYS 67-10 M08-79532
TECHNICAL CONTROL OF THE PRODUCTION OF SHEETS WITH A MAT SURFACE USED FOR DEEP DRAWING 67-10 M08-79739
STUDY OF CAUSES OF BRITTLENESS AND THE SELECTION OF PARAMETERS FOR REJECTING KH18MTF STEEL 67-11 M08-80865
SELECTING PRESS LUBRICANTS FOR STAMPING OPERATIONS 67-11 M08-81200
DEFORMABILITY OF DEEP-DRAWING SHEETS UNDER BIAXIAL TENSILE STRESS 67-11 M17-80398
STUDY OF WALL BREAK IN DEEP-DRAWING 67-12 M08-81744
USE OF AIR AND OIL-PNEUMATIC CUSHIONS IN BLANKING DEEP DRAWING AND STAMPING OPERATIONS 67-12 M08-81923
CLASSIFICATION OF COLD ROLLED SHEETS 67-12 M08-82388
RECENT DEVELOPMENTS IN SHEET-METAL FORMING 67-12 M08-82657
RESEARCH RESULTS CONCERNING ELECTROHYDRAULIC FORMING 67-12 M08-82925
PROBLEMS OF THE TESTING OF DEEP DRAWABILITY 67-12 M08-82934
DEEP DRAWING OF MOLYBDENUM SHEETS 67-12 M08-83332
THE AGING OF TINPLATE 67-12 M08-83450

DEEP DRAWING, PRESSURE EFFECTS
DEEP DRAWING WITH ULTRAHIGH PRESSURE 67-11 M08-80518

DEEP HARDENING
SEE HARDENING

DEFECTS
SEE ALSO AGGLOMERATED DEFECTS
BLOWHOLES
CASTING DEFECTS
CROWDIONS
CRYSTAL DEFECTS
DISLOCATION LOOPS
DISLOCATIONS
DISPLACEMENTS /LATTICE/
EDGE DISLOCATIONS
FLAKES /DEFECTS/
FRANK READ SOURCES
FRENKEL DEFECTS
GLISSILE DISLOCATIONS
INTERSTITIAL DEFECTS
LATTICE VACANCIES
PIPES /DEFECTS/
POINT DEFECTS
SCABS /DEFECTS/
SCREW DISLOCATIONS
SESSILE DISLOCATIONS
SPIKES /LATTICE DEFECTS/
STACKING FAULTS
SURFACE DEFECTS
WELD DEFECTS
KINETICS OF COMPLEX DEFECT ANNEALING IN SILICON 67-01 M16-57953
ELIMINATION OF DEFECTS IN HIGH-PURITY ALUMINUM INDUCED BY ROLLING AT VERY LOW TEMPERATURES 67-02 M14-58961
THE AUTOMATIC ULTRASONIC TESTING OF BILLETS FOR INTERNAL DEFECTS 67-09 M19-76509
DEFECTS OF QUENCHED AND TEMPERED HIGH-CARBON STEEL STRIP. PT. 3. DEFECTS IN THE HEAT TREATMENT OF COLD ROLLED STEEL STRIP 67-10 M17-79727

DEFECTS, IMPURITY EFFECTS
THE INFLUENCE OF IRON AND SILICON ADDITIONS IN THE EARING OF ALUMINIUM SHEET 67-02 M14-61883

DEFECTS, RADIATION EFFECTS
DEFECT-IMPURITY RELATIONSHIPS IN ELECTRON-DAMAGED SILICON 67-03 M16-65742

DEFLAGRATION
SEE COMBUSTION

DEFLOCCULATING
SLIP CASTING OF METAL POWDERS 67-07 M09-73871

DEFORMABILITY
SEE FORMABILITY

DEFORMATION
SEE ALSO ELASTIC DEFORMATION
PLASTIC DEFORMATION
NEW DEVELOPMENTS IN COLD EXTRUSION AND UPSETTING 67-05 M07-69143
TRANSIENT STORED ENERGY IN COPPER AND COPPER-3.2 AT. PER CENT TIN 67-05 M13-68751
CORRELATION BETWEEN LABORATORY TESTS AND ACTUAL PRACTICAL STAMPING RESULTS 67-05 M17-68928
DEFORMATION OF HIGH-SPEED STEELS DURING QUENCHING. INDEFORMABLE HIGH-SPEED STEELS 67-05 M17-69195
THE GRADATION OF DEFORMATION IN EXTRUDING CABLE SHEATHS AND ITS EFFECT ON EXTRUSION FORCES 67-06 M07-72126
STATIC INVESTIGATIONS OF RA3 --ALMG5-- ALLOY WELD JOINTS 67-06 M17-70211
THE PHYSICAL BASIS OF THE DEFORMATION PROCESS IN METALS 67-06 M17-71210
INVESTIGATIONS ON SOME DEFORMATION MODES OF BERYLLIUM 67-06 M17-71540
EFFECT OF TYPE OF DEFORMATION ON THE MECHANICAL PROPERTIES OF HAMMER FORGINGS 67-07 M17-72491
STUDY OF THE ALGORITHM OF AN ELECTRON MODEL OF THE DEFORMATION AREA IN ROLLING 67-12 M07-81710
THE EFFECTS OF DEFORMATION ON THE ELECTRICAL RESISTIVITY OF MOLYBDENUM SINGLE CRYSTALS 67-12 M15-82858
DEFORMATION CHARACTERISTICS OF POLYCRYSTALLINE THORIUM FROM 78 TO 473 K 67-12 M17-82560
THE NATURE OF THE DEFORMATION OF CERTAIN AUSTENITIC STEELS AT LOW TEMPERATURES 67-12 M17-83312

DEFORMING
SEE DEFORMATION

DEGASIFICATION
SEE DEGASSING

DEGASIFYING
SEE DEGASSING

DEGASSERS
VACUUM DEGASSING OF STAINLESS AND ALLOY STEELS 67-03 M06-65924
DEGASSING ABILITY OF FREON 12 --CCL2F2-- AND NITROGEN-FREON 12 GAS MIXTURE. PT. 2. STUDIES ON DEGASSING MEDIUM FOR ALUMINUM 67-06 M06-71214

DEGASSING
SEE ALSO DEAERATION
STREAM DEGASSING
VACUUM DEGASSING
PURGING OTSSN3-7-5-1 BRONZE WITH NITROGEN AND WITH FLUX POWDERS IN A NITROGEN STREAM 67-01 M06-57321
EFFECT OF GAS BLOWING ON STRUCTURE AND PROPERTIES OF CAST IRON 67-01 M13-57467
DEGASSING OF ALUMINIUM AND LIGHT ALLOYS BY BUBBLING-THROUGH NITROGEN THROUGH POROUS REFRACTORY ELEMENTS 67-02 M06-60503
THE NEW ELECTRICAL STEEL-WORKS OF THE MARREL BROTHERS SOCIETY AT RIVE-DE-GIER 67-03 M06-65364
CERTAIN PROBLEMS IN REMOVING GASES AND NONMETALLIC OXIDE INCLUSIONS DURING MELTING OF TRANSFORMER STEEL 67-04 M04-66902
DEGASSING WITH A SOLID GAS 67-04 M04-67768
IMPROVING THE QUALITY OF STRUCTURAL STEELS BY INJECTING ARGON IN THE LADLE 67-04 M04-68187
REMOVING AND PURIFYING GASES FROM ELECTRIC STEELMAKING FURNACES 67-04 M04-68188
PROCESS OF TAP DEGASSING OF STEEL 67-05 M04-68728
THE DEGASSING OF ALUMINUM ALLOYS. COMPARISON OF NITROGEN, CHLORINE AND DEGASSING TABLETS 67-05 M06-68418
STEEL DEGASSING, REFINING AND REHEATING IN A SINGLE LADLE 67-06 M04-70693
DEOXIDATION AND REFINING OF STEEL IN ARC FURNACES OF VARIOUS CAPACITY 67-06 M04-71252
THE KINETICS OF NITROGEN REMOVAL FROM IRON-NITROGEN ALLOYS BY MEANS OF HYDROGEN 67-06 M04-71751
CONTRIBUTION TO THE PROBLEM OF DETERMINING THE FREE AND THE COMBINED NITROGEN IN STEELS 67-06 M04-71752
MIXING OF LIQUID STEEL AND DISSOLUTION OF FERROALLOYS DURING DH DEGASSING. PT. 11. APPLICATION OF RADIOACTIVE ISOTOPES IN STEELMAKING 67-06 M04-72270
MANUFACTURING POROUS CERAMIC PLUGS FOR BOTTOM BLOWING OF STEELS IN LADLES 67-06 M05-70562
THE DEGASSING OF AL-SI ALLOY MELTS WITH LUMP TI 67-06 M06-71191
DEGASSING ABILITY OF FREON 12 --CCL2F2-- AND

NITROGEN-FREON 12 GAS MIXTURE. PT. 2. STUDIES ON DEGASSING MEDIUM FOR ALUMINUM 67-06 M06-71214
THE CONTROL OF DISSOLVED GASES, FACTOR OF QUALITY IN LIGHT ALLOY FOUNDING 67-06 M06-72153
INFLUENCE OF GASSING ON THE STRUCTURE AND PROPERTIES OF CAST IRON 67-06 M13-70755
LARGE SCALE ELECTRON-BEAM PROCESSES 67-06 M16-72053
AUXILIARY INSTALLATIONS FOR THE TREATMENT OF MELTS OF ALUMINUM AND ITS ALLOYS WITH CHLORINE 67-07 M03-74034
CONTRIBUTION TO THE STUDY OF SIMULTANEOUS DECARBURIZATION AND REMOVAL OF NITROGEN FROM IRON MELTS 67-07 M04-72474
REFRACTORY EXPERIENCES IN CRUCIBLE STEEL COMPANYS DORTMUND-HORDER DEGASSING UNIT 67-07 M04-72776
DETERMINATION AND CONTROL OF THE HYDROGEN CONTENT OF STEELMAKING SLAGS 67-07 M04-73008
DEGASSING TRIALS OF STEEL BY TREATMENT WITH LIQUID SLAG 67-07 M04-73019
INJECTION OF BRONZE OTSSN3-7-5-1 WITH NITROGEN AND POWDERED FLUXES IN NITROGEN 67-07 M06-73043
MELTING, REMELTING, DEGASSING, FLUXING AND HANDLING 67-08 M03-74838
BLOWING A THROUGH MOLTEN STEEL FOR DEGASSING AND STIRRING BY THE GAZAL PROCESS 67-08 M04-75794
PURIFICATION OF GAS FROM ALUMINUM ELECTROLYTIC CELLS 67-09 M03-76822
EFFECT OF BLOWING WITH MOLECULAR NITROGEN ON THE STRUCTURE AND PROPERTIES OF BLAST FURNACE FOUNDRY CAST IRON 67-09 M04-77870
CONSIDERATIONS ON THE PURIFICATION AND DEGASSING OF ALUMINUM MELTS BY MEANS OF FLUXING GASES 67-10 M03-79083
REFINING OF AL9 ALUMINUM ALLOY BY DIRECT CURRENT 67-10 M03-79146
GAS CONTENT VARIATION IN ALUMINUM ALLOYS DURING TREATMENT WITH ZIRCONIUM 67-11 M03-81466
REFINING AND DEGASSING METAL IN ELECTRON BEAM MELTING 67-11 M04-80855
BEHAVIOR OF HYDROGEN IN STEEL MADE IN BASIC OPENHEARTH FURNACES 67-11 M04-81648
GAS AND POROSITY IN CASTINGS. PT. 1 67-11 M06-80930
INFLUENCE OF DEGASSING ATMOSPHERE OF ALUMINUM POWDER ON REABSORPTION OF MOISTURE 67-11 M09-80758
RECOVERY OF DEFORMED NIOBIUM AND TANTALUM DEGASSED IN ULTRA-HIGH VACUUM 67-11 M14-80632
NEW STEEL PROCESS COMBINES REFINING AND DEGASSING IN INDUCTION STIRRED FURNACE LADLE 67-12 M04-82883
GAS ABSORPTION BY AL-MELTS AND THEIR DEGASSING 67-12 M06-83039
MELTING AND DEGASSING OF ALUMINUM-MAGNESIUM AND ALUMINUM-SILICON CASTING ALLOYS 67-12 M06-83206

DEGASSING, DIFFUSION EFFECTS
KINETICS OF THE REACTION OF REMOVAL OF HYDROGEN AND NITROGEN FROM LIQUID STEEL 67-09 M14-77354

DEGRADATION
ON DEGRADATION OF SINTER DURING CHEMICAL REDUCTION 67-10 M04-79991

DEGREASING
SEE ALSO ULTRASONIC DEGREASING
VAPOR DEGREASING
CONTINUOUS PRETREATMENT OF SHEET AND STRIP BEFORE PAINTING 67-01 M12-57164
THE CLEANING AND DEGREASING OF METALS 67-01 M12-58427
CLEANING METALLIC SURFACES 67-01 M12-58430
CHEMICAL CONVERSION COATING OF AL AND AL ALLOY SURFACES 67-01 M12-58434
APPLICATION OF SODIUM GLUCONATE IN ALKALINE BATHS FOR SIMULTANEOUS DEGREASING AND DEOXIDATION OF BRASS 67-04 M12-68039
NEW PRODUCTION LINE TO SATISFY INCREASING DEMAND FOR PYRENES TEST PANELS 67-05 M01-68908
METAL CLEANING 67-06 M12-70028
MECHANIZATION AND AUTOMATION IN SOLVENT DEGREASING PROCESSES 67-06 M12-70199
PRACTICAL ADVANTAGES OF COLD EMULSION CLEANING 67-06 M12-70607
DEGREASING AND CLEANING WITH ORGANIC SOLVENTS 67-06 M12-71809
USE OF SODIUM GLUCONATE IN ELECTROLYTIC BATHS FOR DEGREASING AND DESCALING IN PLATING INDUSTRY 67-06 M12-71812
SIMPLER PRETREATMENT PROCESSES 67-06 M12-71902
SURFACE CONDITIONING 67-06 M12-71954
METAL CLEANING NAD DEGREASING--THE BASIS OF EFFECTIVE SURFACE FINISHING 67-08 M12-74526
PRETREATMENT OF METAL SURFACES BY CHEMICALS--COLD DEGREASING OF STEEL 67-08 M12-74596
THE GALVANIZING OF SINTERED MATERIALS 67-08 M12-75639
CHEMICAL METHODS OF SURFACE PREPARATION 67-09 M12-77645
DEGREASING METAL PARTS WITH TRICHLORETHYLENE AND PERCHLORETHYLENE 67-10 M12-79806
THE PREPARATION AND PRETREATMENT OF METAL SURFACES 67-10 M18-80097

DEHYDRATING
SEE DEHYDRATION

DEHYDRATION
FLUIDIZED BED DEHYDRATION OF LOWER CRYSTAL HYDRATES OF MAGNESIUM CHLORIDE IN A HYDROGEN CHLORIDE CURRENT 67-02 M02-60568
DEWATERING IRON ORE CONCENTRATES ON AUTOMATIC FILTER PRESSES 67-06 M02-70169
THERMAL AND MATERIALS BALANCES FOR A FLUIDIZED BED FURNACE DEWATERING CARNALLITE 67-06 M02-71352
THE THERMAL DEHYDRATION OF HYDROXIDIC IRON ORES 67-09 M10-77080
THERMAL DEGRADATION OF MAGNESIUM SULFATE HEPTAHYDRATE UNDER CONTROLLED VAPOR PRESSURE 67-12 M15-83158

DEHYDRATION, IMPURITY EFFECTS
EFFECT OF MICRO-VOIDS AND MANGANESE SULPHIDE INCLUSIONS IN STEEL ON HYDROGEN EVOLUTION AND EMBRITTLEMENT 67-09 M17-78154

DEHYDROGENATION
KINETICS OF DEGASSING OF ALUMINUM POWDERS 67-05 M09-68701
QUANTITATIVE INVESTIGATION OF THE EFFECT OF VARIOUS FACTORS ON THE GRAPHITIZATION OF MALLEABLE CAST IRON 67-05 M14-68597
THE ASEA-SKF DEGASSING PROCESS 67-07 M04-73328
BLOWING A THROUGH MOLTEN STEEL FOR DEGASSING AND STIRRING BY THE GAZAL PROCESS 67-08 M04-75794
THREE NEW INDUSTRIAL PROCESSES FOR DEGASSING MOLTEN STEEL 67-08 M04-76165
REMOVAL OF HYDROGEN FROM SMALL FORGINGS 67-08 M10-74354
REFINING OF AL9 ALUMINUM ALLOY BY DIRECT CURRENT 67-10 M03-79146
HOW DEGASSING METHODS AFFECT HYDROGEN IN THE STEEL 67-11 M04-81625
BEHAVIOR OF HYDROGEN IN STEEL MADE IN BASIC OPENHEARTH FURNACES 67-11 M04-81648
MICROSCOPIC OBSERVATION OF THE EVOLUTION OF HYDROGEN FROM METAL 67-11 M14-80598
STUDY OF THE DEHYDROGENATION OF ELECTROLYTIC IRON IN VACUUM 67-11 M14-80599
HYDROGEN AND OXYGEN IN THE BASIC OPENHEARTH METHOD--A CONTRIBUTION TO THE PHYSICS OF STEEL PRODUCTION 67-12 M04-81958
KINETICS OF DEGASSING OF ALUMINUM POWDERS 67-12 M09-82677

DEHYDROGENATION, HEATING EFFECTS
THE REMOVAL OF HYDROGEN BY ANNEALING WITH INTERMEDIATE TRANSFORMATION 67-08 M10-74353

DELBRUCK SCATTERING
SEE ELASTIC SCATTERING
NUCLEAR SCATTERING

DELIQUESCENCE
SEE HYGROSCOPICITY

DELTA PHASE
SOLVUS COMPOSITION FOR NICKEL-RICH NICKEL-ZIRCONIUM ALLOYS 67-05 M14-68724
TRANSFORMATION OF DELTA FERRITE DURING A QUENCHING TREATMENT 67-08 M14-76211

DELTA PHASE, PRESSURE EFFECTS
THE INFLUENCE OF PRESSURE ON THE STABILIZATION OF THE DELTA PHASE OF PLUTONIUM BY GALLIUM 67-09 M14-76309

DEMAG FURNACES
SEE SUBMERGED ARC ELECTRIC FURNACES

DEMAG HUMBOLT PROCESS
SEE FERROALLOYS /ADDITIVES/
SUBMERGED ARC ELECTRIC FURNACES

DEMAGNETIZATION
MAGNETIC BREAKDOWN IN CHROMIUM 67-03 M15-65143

DEMAGNETIZATION

THE TEMPERATURE DEPENDENCE OF THE INTERNAL DEMAGNETIZING FACTOR OF NI 67-08 M15-75646

DEMAGNETIZATION, TEMPERATURE EFFECTS

METHOD FOR THE DETERMINATION OF THE TEMPERATURE DEPENDENCE OF THE DEMAGNETIZATION CURVE OF PERMANENT MAGNETS 67-08 M15-75069

CONTRIBUTION TO THE TEMPERATURE DEPENDENCE OF THE MAGNETIC PROPERTIES OF PERMANENT MAGNET MATERIALS 67-08 M15-75987

DEMETALLIZATION

SEE DEALUMINIZATION
DECOPPERIZATION
DEZINCIFICATION

DEMINERALIZING

ION EXTRACTION BY FOAM. SEPARATION OF URANIUM FROM VANADIUM IN CARBONATE MEDIUM 67-06 M03-71017

DENDRITE

SEE DENDRITIC STRUCTURE

DENDRITIC STRUCTURE

GROWTH TWINNING IN ALUMINUM ALLOYS 67-01 M14-57412

AN INOCULANT FOR CAST IRON 67-02 M06-59652

THE STRUCTURE OF PERFECT DENDRITIC GERMANIUM CRYSTALS 67-02 M13-61097

DENDRITE STRUCTURE AND GRAIN SIZE OF UNDER COOLED MELTS 67-03 M14-65078

CONTROLLED SOLIDIFICATION 67-03 M14-65337

TOPOGRAPHY OF SILICON WEB CRYSTAL SURFACES 67-03 M15-65660

ON THE EXISTENCE OF A DENDRITE SHOWER 67-04 M13-67536

HOW MOLTEN METALS SOLIDIFY--AN INSIDE STORY 67-04 M14-67247

THE DEPENDENCE OF THE SIZE OF THE CELLULAR INTERFACE STRUCTURE IN DILUTE BINARY ALLOYS ON SOLIDIFICATION CONDITIONS 67-05 M14-68723

NUCLEATION OF THE EQUIAXED ZONE IN CAST METALS 67-06 M06-69937

DIRECT OBSERVATION OF DENDRITE REMELTING IN METAL ALLOYS 67-06 M13-69945

CONTROLLED GROWTH OF TIN DENDRITES 67-06 M14-70410

TECHNIQUES FOR MEASURING THE TWIN SPACING IN DENDRITES AND WEBS OF SEMICONDUCTORS 67-06 M14-71409

THE DISTRIBUTION OF ALLOYING ELEMENTS IN DENDRITES AND INTERDENDRITIC SPACES 67-06 M19-72155

AN AUTORADIOGRAPHIC STUDY OF THE DISTRIBUTION OF IRON IN CAST ALUMINIUM-IRON SOLID SOLUTION 67-07 M19-72817

DENDRITIC AND ZONAL HETEROGENEITIES IN THE KHN67MTYU AND KHN60MVTYU ALLOYS 67-08 M13-76011

EFFECTS OF COOLING RATE DURING THE SOLIDIFICATION OF SOLID SOLUTIONS ON THE COMPOSITION OF THE AXIAL REGIONS OF DENDRITE BRANCHES 67-09 M14-76888

CAST STRUCTURE AND HOMOGENEITY OF INGOTS REMELTED BY SPECIAL TECHNIQUES 67-11 M04-80213

THE DENDRITE-EUTECTIC TRANSITION 67-12 M14-82863

APPLICATION OF THE GRAIN GROWTH THEORY TO THE FORMATION OF NICKEL TRICHITES 67-12 M14-83500

DENDRITIC STRUCTURE, ALLOYING EFFECTS

EFFECT OF CERIUM ON STRUCTURE AND PROPERTIES OF OKH23N18 STEEL 67-05 M13-68557

DENDRITIC STRUCTURE IN COLUMNAR CRYSTALS OF BINARY ALLOYS 67-05 M13-69865

EFFECT OF CERIUM ON STRUCTURE AND PROPERTIES OF OKH23N18 STEEL 67-07 M13-72468

THE MECHANISM OF INOCULATING STEEL WITH ZIRCONIUM 67-08 M04-74583

EFFECT OF THE SOLUTE CONTENT ON THE DENDRITIC STRUCTURE IN COLUMNAR CRYSTALS OF BINARY ALLOY 67-09 M14-78230

INVESTIGATION OF ACICULAR STRUCTURE IN TITANIUM-CONTAINING PERMANENT MAGNETS OF ALNICO 67-12 M13-82229

DENDRITIC STRUCTURE, TEMPERATURE EFFECTS

ON CRYSTAL GROWTH DISTANT FROM PHASE EQUILIBRIUM CONDITIONS 67-07 M13-73855

DENITRATION

KINETICS OF NITROGEN TRANSFER THROUGH AN IRON SURFACE 67-03 M14-65425

THE PATTERN OF NITROGEN, SILICON, AND SULFUR ELIMINATION AND THE BEHAVIOR OF TITANIUM DURING THE PRETREATMENT OF OPENHEARTH AND BASIC BESSEMER HOT METALS WITH SODA 67-07 M04-72707

BLOWING A THROUGH MOLTEN STEEL FOR DEGASSING AND STIRRING BY THE GAZAL PROCESS 67-08 M04-75794

DENITRIDING OF STEEL COILS FOR DEEP DRAWING IN REACTIVE ATMOSPHERES. RELATIONSHIP BETWEEN RESIDUAL NITROGEN AND AGING 67-09 M10-78294

DENITRATION, ULTRASONICS

INFLUENCE OF ULTRASOUND ON THE NITRIDING AND DENITRIDING OF STEEL 67-08 M10-75815

DENSIFICATION

GAS ENTRAPMENT DURING THE SINTERING OF MAGNESIA IN ARGON 67-03 M09-65672

GRAIN BOUNDARY MIGRATION IN HOT-PRESSED TANTALUM CARBIDE 67-04 M19-67273

SOME ASPECTS OF SINTERING WITH SPECIAL REFERENCE TO OXIDES AND TO REDUCING CONDITIONS 67-06 M09-70883

HOT PRESSING OF ALUMINA--A NEW TREATMENT OF FINAL DENSIFICATION 67-07 M09-73623

THE COMPACTION OF METAL POWDERS 67-07 M09-73859

A NEW METHOD FOR COMPACTING METAL OR CERAMIC POWDERS INTO CONTINUOUS SECTIONS 67-07 M09-73864

THE MECHANISM OF THE COMPACTION OF METAL POWDERS BY ROLLING 67-07 M09-73865

VIBRATORY COMPACTING OF METAL POWDERS 67-07 M09-73872

A STEEL POWDER FOR HIGH DENSITY PARTS 67-08 M09-74489

MECHANISM OF LIQUID PHASE SINTERING IN THE IRON-COPPER SYSTEM 67-08 M09-75389

REFRACTORY PLUTONIUM FUEL MATERIALS 67-09 M09-76338

EFFECT OF ISOSTATIC PRESSURE ON SINTERING 67-10 M09-79433

THE HARDNESS/POROSITY RELATIONSHIP IN CHROMIC OXIDE CERMETS 67-11 M09-81539

THE ROLE OF SURFACE, VOLUME AND GRAIN BOUNDARY DIFFUSION IN THE SINTERING PROCESS OF METALS 67-11 M14-80380

THE ROLE OF SURFACE, VOLUME AND GRAIN BOUNDARY DIFFUSION IN SINTERING OF METALS 67-12 M09-82054

DENSIFICATION, ALLOYING EFFECTS

PREPARATION AND STUDIES OF SOME PROPERTIES OF PLUTONIUM MONOCARBIDES 67-09 M15-76344

DENSIFICATION, HEATING EFFECTS

INFLUENCE OF POWDER HEAT TREATMENT ON THE SINTERING OF --UPU--O2 67-09 M09-76337

EFFECT OF ACTIVITY OF ZRO2 ON ITS DENSIFICATION DURING HOT PRESSING 67-12 M05-81740

DENSIFICATION, RADIATION EFFECTS

IRRADIATION-INDUCED DENSIFICATION OF PYROLYTIC CARBON 67-09 M16-77715

DENSITY

SEE ALSO BULK DENSITY

CRYSTAL STRUCTURES AND DENSITIES. INTERMETALLIC PHASES. PT. 3 67-01 M13-58507

DENSITY OF FE-C-SI AND FE-C-MN ALLOYS IN SOLID AND LIQUID STATE 67-01 M15-57466

EFFECT OF PULP DENSITY ON PYRITE FLOTATION 67-02 M02-61602

USE OF THE METHOD OF DYNAMIC HOT PRESSING IN POWDER METALLURGY PRODUCTION 67-02 M09-61704

THE DENSITY AND SURFACE TENSION ISOTHERMS OF MANGANESE-SILICON MELTS 67-02 M15-62211

CONSUMABLE ELECTROFLUX REMELTING--THE HOPKINS PROCESS. PT. 2 67-03 M04-65472

GMS WAY TO DENSER DIECASTINGS 67-03 M06-65684

SINTERING OF YTTRIUM OXIDE 67-03 M09-65355

DENSITY OF LIQUID FE-S AND FE-P ALLOYS 67-03 M15-65775

DENSITY OF FE-C-SI AND FE-C-MN ALLOYS IN THE SOLID AND LIQUID STATES 67-06 M15-70754

DENSITY CHANGES DUE TO DISLOCATIONS IN SILICON SINGLE CRYSTALS 67-06 M15-70997

ELECTRICAL AND OPTICAL PROPERTIES OF AMORPHOUS GERMANIUM 67-06 M16-69921

AUTOMATIC PULP DENSITY MONITORING WITH THE RRP-605 ISOTOPE RELAY 67-06 M19-71342

THE HEAT-TREATABILITY AND PROPERTIES OF URANIUM ALLOYS 67-07 M01-73829

CONTINUOUS SILICON CARBIDE FILAMENTS 67-07 M09-73351

HYDROSTATIC PRESSING OF POWDERS 67-07 M09-73861

CONSOLIDATING METAL POWDERS MAGNETICALLY

67-07 M09-73863
ELECTRICAL CONDUCTIVITY AND DENSITY OF SUPERCRITICAL GASEOUS MERCURY AT HIGH PRESSURES 67-07 M15-72422
COMPRESSIBILITY AND BINDING ENERGY OF THE SIMPLE METALS 67-07 M15-73942
APPLICATION OF DYNAMIC HOT PRESSING IN POWDER METALLURGY 67-08 M09-75849
PHYSICO-CHEMICAL PROPERTIES OF SLAGS OF THE CAO-AL2O3-MEXAY SYSTEM. PT. 2 67-08 M15-74331
ALUMINA-BONDED REFRACTORIES 67-09 M05-76454
THE EFFECTS OF SOME VARIATIONS IN FABRICATION PROCEDURE ON THE PROPERTIES OF LEAD ZIRCONATE-TITANATE CERAMICS MADE FROM SPRAY-DRIED, CO-PRECIPITATED POWDERS 67-09 M09-76747
EFFECTS OF RESIDUAL GAS ON THE SINTERING OF ALUMINA TO THEORETICAL DENSITY IN VACUUM 67-09 M09-77528
VISCOSITY DENSITY-COMPOSITION RELATIONSHIPS FOR LIQUID PLUTONIUM-CERIUM ALLOYS 67-09 M15-76325
DENSITY OF WHITE SYNTHETIC SLAGS 67-09 M15-77862
DENSIFICATION AND WEAR RESISTANCE OF CERAMIC SYSTEMS. PT. 1. TITANIUM DIBORIDE 67-09 M15-77963
APPLICATION OF MERCURY POROSIMETRY TO REFRACTORY MATERIALS 67-09 M15-77964
OXYGEN ABSORPTION AND CREEP STRENGTH OF SINTERED NICKEL ALUMINIDE 67-09 M17-78193
TECHNOLOGICAL CHARACTERISTICS OF W-NI-CU ALLOYS CONTAINING DISPERSED ZIRCONIUM DIOXIDE INCLUSIONS 67-10 M09-78991
EFFECT OF LIF ON HOT-PRESSING OF MGO 67-10 M09-79432
ISOTHERMAL YOUNGS MODULUS OF UO2 AND UO2-MO-CERMETS 67-10 M17-78361
LIQUID PLUTONIUM--A REVIEW OF ITS PHYSICAL PROPERTIES 67-11 M15-80543
APPROXIMATE CALCULATION OF THE SURFACE TENSION OF MOLTEN ALKALI METALS 67-11 M15-80653
THE DENSITY OF FUSED FLUXES USED FOR ELECTROSLAG REMELTING AND THE ELECTROSLAG HEATING OF INGOT FEEDER HEADS 67-11 M15-80880
DENSITY DETERMINATION OF REFRACTORIES BY MEASUREMENT OF GAMMA RADIATION ABSORPTION 67-11 M15-80906
PHYSICAL PROPERTIES OF STEELS 67-11 M15-81399
DENSITY DETERMINATION OF REFRACTORIES BY MEASUREMENT OF GAMMA-RADIATION ABSORPTION 67-11 M15-81556
ACTIVATED SINTERING OF TUNGSTEN AND MOLYBDENUM POWDERS 67-12 M09-82209
QUANTITATIVE STUDY OF THE SUBSTRUCTURE AND PROPERTIES OF SHOCK-LOADED COPPER 67-12 M13-82860
SURFACE TENSION AND DENSITY OF LIQUID NI-GA ALLOYS AND THE WETTABILITY OF AL2O3 BY THEM 67-12 M15-82171
THE EFFECT OF NONMETALLIC NICLUSIONS ON THE FATIGUE STRENGTH OF QUENCH-HARDENED STEEL 67-12 M17-82189
SLURRY ABRASION 67-12 M17-82916

DENSITY, ALLOYING EFFECTS
CRITERIA FOR THE SELECTION OF ADDITIVES TO ENABLE THE SINTERING OF ALUMINA TO PROCEED TO THEORETICAL DENSITY 67-09 M09-77527
COMPOSITIONAL AND PRESSURE EFFECTS IN THE PLUTONIUM-GALLIUM SYSTEM 67-09 M15-76308

DENSITY, COMPOSITION EFFECTS
PROPERTIES OF IODIDE-TYPE HAFNIUM AND ALLOYS IN THE ZIRCONIUM-HAFNIUM SYSTEM 67-10 M17-79628

DENSITY, POWDER METALLURGY
PRESSIBILITY OF SINTERED IRON 67-07 M17-72522

DENSITY, PRESSURE EFFECTS
HYDROSTATIC EXTRUSION OF METAL POWDERS 67-07 M09-73869

DENSITY, TEMPERATURE EFFECTS
CRYSTALLIZATION OF METALS FROM SUPERCOOLED STATE 67-08 M15-75888
DENSITIES OF LITHIUM, SODIUM AND POTASSIUM AT TEMPERATURES UP TO 1500-1600 C 67-10 M15-79252

DENSITY MEASUREMENT
A MICRORADIOGRAPHIC TECHNIQUE FOR DETERMINING DENSITIES OF PYROLYTIC-CARBON COATINGS 67-02 M15-59056
THE PROBLEM OF FERRITE DETERMINATION IN AUSTENITIC WELDS 67-02 M19-59968
DENSITY OF IRON OXIDE-SILICA MELTS 67-06 M15-69943
DENSITY OF THIN EVAPORATED ALUMINUM FILMS 67-08 M19-74714
DENSITY DETERMINATION OF SPUTTERED TANTALUM FILMS BY A BETA-BACKSCATTER TECHNIQUE 67-08 M19-74715

DEOXIDATION
SEE ALSO DEOXIDIZING

DEOXIDATION, KINETICS
BEHAVIOR OF OXYGEN IN LIQUID STEEL AND PRINCIPLES OF DEOXIDATION KINETICS 67-01 M04-58242

DEOXIDIZERS, MELTING
PRODUCTION OF SILICOCALCIUM IN HIGH-CAPACITY FURNACES 67-01 M04-57258
MANUFACTURE OF SI-CA USING THE SILICOTHERMAL METHOD 67-09 M03-76565

DEOXIDIZING
SEE ALSO VACUUM DEOXIDATION
EFFECT OF COMPLEX DEOXIDATION ON THE PHYSICAL AND MECHANICAL PROPERTIES OF MEDIUM-CARBON STEEL 67-01 M04-57128
COMPARISON OF PREDEOXIDATION METHODS OF OPENHEARTH STEEL 67-01 M04-58134
THE DEOXIDATION WITH TITANIUM IN LIQUID IRON 67-01 M04-58260
CHANGE OF THE DISSOLVED OXYGEN CONTENT IN SILICON DEOXIDATION 67-01 M04-58308
SEPARATION RATE OF PRIMARY INCLUSION IN AGITATED STEEL BATH 67-01 M04-58562
DEOXIDATION WITH TITANIUM IN LIQUID IRON 67-01 M04-58595
RESULTS OF TESTS ON DEOXIDIZING TITANIUM 67-02 M03-62056
DETERMINATION OF NONMETALLIC INCLUSIONS IN IRON-BASE ALLOYS 67-02 M04-59578
ON THE FORMATION OF INCLUSIONS DURING DEOXIDIZATION OF LIQUID IRON BY ALUMINIUM 67-02 M04-59749
THEORETICAL CALCULATION OF EQUILIBRIUM OF OXYGEN ELEMENT-DEOXIDANT IN LIQUID IRON ALLOYS ON THE BASIS OF CRITICAL CONCENTRATIONS 67-02 M04-60052
CHANGES IN OXYGEN CONCENTRATION AND EQUILIBRIUM OXYGEN CONCENTRATION DURING DEOXIDIATION, TEEMING AND SOLIDIFICATION OF STEEL 67-02 M04-60725
NONMETALLIC INCLUSIONS AND PROCESSES OF ELIMINATION FROM MOLTEN STEEL 67-02 M04-60795
INFLUENCE OF DEOXIDATION METHOD ON HAIRLINE CRACKING OF KILLED LOW CARBON ARMCO-TYPE ELECTRICAL STEEL 67-02 M04-61210
NORMS OF ALUMINUM CONSUMPTION FOR DEOXIDIZING CARBON STEEL 67-02 M04-61230
PARTICIPATION OF CHROMIUM IN THE DEOXIDATION OF STEEL 67-02 M04-62254
EFFECT OF ADDITIONS OF FERRO-CERIUM AND SILICOCALCIUM ON THE PROPERTIES OF CAST 35KH2GM STEEL 67-02 M17-61811
USE OF MANGANESE-ALUMINUM ALLOYS IN THE PRODUCTION OF DEEP DRAWING ALUMINUM KILLED STEEL 67-03 M04-65537
USE OF MOLD ADDITIONS FOR THE CONTROL OF DEEP-DRAWING ALUMINUM KILLED STEEL 67-03 M04-65539
QUALITY OF ALUMINUM-KILLED STEEL INGOTS 67-03 M04-65541
VACUUM DEGASSING IMPROVES STEEL FORGING QUALITY 67-03 M06-65117
ALLOY FOR DEOXIDIZING STEEL 67-04 M04-66004
USE OF SILICO-ALUMINUM TO DEOXIDIZE STEEL 67-04 M04-66032
EXPERIENCE IN DEOXIDIZING STEEL WITH SILICO-ALUMINUM 67-04 M04-66035
THERMODYNAMIC ANALYSIS OF THE REDUCTION OF CHROMIUM INCLUSIONS IN 20 PER CENT-CHROMIUM STEEL BY RARE EARTH METALS OF THE CERIUM SUBGROUP 67-04 M04-66608
NUCLEATION, GROWTH, AND FLOTATION OF OXIDE INCLUSIONS IN LIQUID STEEL 67-04 M04-66732
ON THE THEORY OF DEOXIDIZING STEEL WITH MANGANESE 67-04 M04-66874
EFFECTS OF ALUMINUM ON THE PROPERTIES AND QUALITY OF GRADE 25L CONVERTER AND ACID ELECTRIC FURNACE STEEL 67-04 M04-67862
DEOXIDATION OF STEEL--WHAT HAPPENS FROM TAP TO SOLIDIFICATION 67-04 M04-68047
STANDARD ALUMINIUM CONSUMPTIONS FOR THE DEOXIDATION OF CARBON STEEL 67-04 M04-68091
STRENGTHENING OF HADFIELD STEEL 67-04 M13-67143

OBSERVATION OF DEOXIDATION PRODUCTS FORMED IN THE SI-DEOXIDATION OF STEEL 67-04 M13-67559
EFFECT OF ADDITIONS OF ALUMINUM ON PROPERTIES OF ST. 5 SEMIKILLED STEEL 67-04 M17-67605
INFLUENCE OF PRELIMINARY DEOXIDATION ON QUALITY OF OPENHEARTH STEEL TREATED WITH ANYTHETIC SLAG IN A LADLE 67-05 M04-68546
PROCESS OF TAP DEGASSING OF STEEL 67-05 M04-68728
REFLECTIONS ON THE DEOXIDATION OF STEEL 67-05 M04-68901
ON THE SPECIFIC CONSUMPTION OF ALUMINUM FOR THE DEOXIDATION OF STEELS INTENDED FOR CASTINGS 67-05 M04-69069
CONTROL OF THE DEOXIDATION OF RIMMING STEEL BASED ON THE BATH COMPOSITION BEFORE THE TAP 67-05 M04-69075
CHEMICAL HETEROGENEITY AND NONMETALLIC IMPURITIES IN STEEL INGOTS WITH RARE-EARTH METALS 67-05 M04-69506
PRODUCING ELECTROCORUNDUM FOR SYNTHETIC SLAGS FROM SINTERED KAOLIN 67-05 M04-69687
EFFECT OF DEGREE OF DEOXIDATION AND THICKNESS OF ROLLED PRODUCT ON THE MECHANICAL PROPERTIES OF LOW-CARBON STEEL AND BRITTLE FRACTURE IN ELEMENTS OF METAL STRUCTURES 67-05 M17-68555
THE DEOXIDIZING CAPACITY AND ACTIVITY OF TITANIUM IN NICKEL ALLOYS CONTAINING CHROMIUM 67-06 M03-69970
THE VISCOSITY OF TITANIUM-BEARING SLAGS AND ITS EFFECT ON LOSS OF TITANIUM IN ALLOYING STAINLESS STEELS 67-06 M04-69971
THE HARMFUL EFFECT OF THE QUANTITY OF OXYGEN IN THE BATH ON THE NATURE OF STEEL CASTING 67-06 M04-70113
ALLOY FOR DEOXIDIZING AND ALLOYING 67-06 M04-70730
EFFICIENT DEOXIDIZING AND ALLOYING CHROME STEEL 67-06 M04-70903
HOW VARIOUS DEOXIDIZERS AFFECT BILLET QUALITY AND MECHANICAL PROPERTIES OF SEMIKILLED STEEL 67-06 M04-70909
DEOXIDATION AND REFINING OF STEEL IN ARC FURNACES OF VARIOUS CAPACITY 67-06 M04-71252
MEASUREMENT OF THE RATE OF DEOXIDATION OF LIQUID STEEL BY THE EMF METHOD. PT. 7. STUDY OF OXYGEN CONCENTRATION CELLS AT HIGH TEMPERATURES 67-06 M04-72132
METHOD OF DETERMINING DISSOLVED OXYGEN AFTER THE ADDITION OF SILICON TO LIQUID STEEL FOR DEOXIDATION. PT. 1. INVESTIGATION OF DISSOLVED OXYGEN AFTER ADDITION OF DEOXIDANT 67-06 M04-72133
DEOXIDATION OF IRON-CARBON ALLOYS WITH CERIUM AND THE RESULTING NONMETALLIC INCLUSIONS 67-06 M04-72209
BEHAVIOR OF DEOXIDATION PRODUCTS IN THE DEOXIDATION OF STEEL WITH ALUMINUM. PT. 1. INVESTIGATION INTO THE BEHAVIOR OF DEOXIDATION PRODUCTS IN IRON AND STEEL 67-06 M04-72210
BEHAVIOR OF NONMETALLIC INCLUSIONS DURING ROLLING OF STEEL DEOXIDIZED WITH THE COMBINATIONS MN-AL AND SI-AL. PT. 5. DEFORMATION OF INCLUSIONS IN STEEL DURING ROLLING 67-06 M04-72211
THE DEOXIDATION OF LIQUID IRON WITH TITANIUM 67-06 M04-72213
THE RATE OF DEOXIDATION OF STEEL BY ALUMINUM. PT. 3. KINETIC RESEARCHES INTO THE DEOXIDATION OF STEEL 67-06 M04-72218
BEHAVIOR OF DISSOLVED OXYGEN AFTER THE ADDITION OF SILICON FOR DEOXIDATION OF STEEL. PT. 2. INVESTIGATION OF DISSOLVED OXYGEN AFTER THE ADDITION OF A DEOXIDANT 67-06 M04-72271
RATE OF COMPLEX DEOXIDATION BY MANGANESE AND ALUMINUM. PT. 5. --KINETIC RESEARCH INTO THE DEOXIDATION OF STEEL.-- 67-06 M04-72275
PERFORMANCE OF MISCH METAL IN THE DEOXIDATION AND DESULFURIZATION OF PURE IRON. PT. 7. INVESTIGATIONS INTO PURE IRON 67-06 M04-72288
RATE OF MANGANESE AND SILICON COMPLEX DEOXIDATION OF STEEL. PT. 4. KINETIC RESEARCHES INTO THE DEOXIDATION OF STEEL 67-06 M04-72291
DEOXIDATION OF HIGH ALLOY STEEL WITH SILICON 67-06 M04-72389
DEOXIDATION OF LIQUID IRON WITH CALCIUM SILICIDE. PT. 1. STUDY OF THE BEHAVIOR OF COMPLEX DEOXIDANTS 67-06 M04-72390
REMOVAL OF SILICON DURING CARBON ELIMINATION FROM LIQUID IRON USING STEAM-ARGON MIXTURES 67-06 M04-72391
BEHAVIOR OF THE PRODUCTS FROM THE DEOXIDATION OF STEEL WITH SILICON OR MANGANESE. PT. 2. INVESTIGATION INTO BEHAVIOR OF DEOXIDATION PRODUCTS IN IRON AND STEEL 67-06 M14-72281
THE EFFECTS OF FINAL DEOXIDATION AND HEAT TREATMENT ON THE FATIGUE STRENGTH OF CAST MEDIUM-CARBON STEEL 67-06 M17-70378
ON THE RATE OF DEOXIDATION OF STEEL BY SILICON. PT. 2. KINETIC RESEARCHES ON DEOXIDATION OF STEEL 67-07 M04-72448
EFFECT OF PRELIMINARY DEOXIDATION ON QUALITY OF OPEN-HEARTH STEEL TREATED WITH SYNTHETIC SLAG IN THE LADLE 67-07 M04-72457
PRIMARY INCLUSIONS FROM THE DEOXIDATION OF STEEL WITH SILICON AND ALUMINUM. PT. 1. KINETIC RESEARCHES ON STEEL DEOXIDATION 67-07 M04-72499
MELTING LOSSES IN STEELMAKING PROCESSES 67-07 M04-72563
EFFECT OF THE AMOUNT OF ALUMINUM ADDED FOR DEOXIDATION ON THE QUANTITY OF NONMETALLIC INCLUSIONS IN KILLED STEELS 67-07 M04-72701
INFLUENCE OF DEOXIDATION PRACTICE IN BASIC ELECTRIC ARC STEELMAKING ON THE CLEANNESS AND MECHANICAL PROPERTIES OF 0.20-0.25 PER CENT CARBON CAST STEELS 67-07 M04-72754
VACUUM TREATMENT OF BALL-BEARING STEEL PRODUCED WITHOUT FERROSILICON ADDITION 67-07 M04-73006
DEOXIDATION BY PNEUMATIC INJECTION OF GRAPHITE 67-07 M04-73095
THE ASEA-SKF DEGASSING PROCESS 67-07 M04-73328
PROCESSING VANADIUM IRON OUTSIDE THE BLAST FURNACE 67-07 M04-73473
THE PRODUCTION OF FERROSILICONCALCIUM AND ITS USE FOR KILLING STEEL 67-07 M04-73782
ELECTROCORUNDUM FOR SYNTHETIC SLAGS MELTED FROM CONCENTRATED KAOLIN 67-07 M04-74073
NON-METALLIC INCLUSIONS IN CASTS OF 08KH2ON10G6 STEEL WITH DIFFERENT HOT WORKING PROPERTIES 67-07 M13-74146
EFFECT OF DEGREE OF DEOXIDATION AND THICKNESS OF ROLLED PRODUCT ON MECHANICAL PROPERTIES OF LOW CARBON STEEL AND THE OCCURRENCE OF BRITTLE FRACTURE IN METALLIC STRUCTURES 67-07 M17-72466
ADDITIONS OF ALUMINIUM FOR DEOXIDATION OF STEEL 67-08 M04-74383
NORMS OF THE CONSUMPTION OF ALUMINUM FOR DEOXIDIZING CARBON STEEL 67-08 M04-75188
DEOXIDATION OF LIQUID STEEL WITH ALUMINUM AND ELIMINATION OF THE RESULTING ALUMINA 67-08 M04-75313
THE KINETICS OF ALUMINUM DEOXIDATION OF STEEL 67-08 M04-75314
ADDITIONS OF ALUMINUM FOR DEOXIDATION OF STEEL 67-08 M04-75539
DEOXIDATION AND REMOVAL OF IMPURITIES IN VARIOUS SIZES OF ARC FURNACES 67-08 M04-75721
THE MECHANISM OF FORMATION OF OXIDE INCLUSIONS AT THE ADDITION OF DEOXIDIZER 67-08 M04-75769
BLOWING A THROUGH MOLTEN STEEL FOR DEGASSING AND STIRRING BY THE GAZAL PROCESS 67-08 M04-75794
THREE NEW INDUSTRIAL PROCESSES FOR DEGASSING MOLTEN STEEL 67-08 M04-76165
IMPROVING THE QUALITY OF SEMIKILLED STEEL 67-08 M04-76272
MELTING FERROSILICOCALCIUM AND USING IT FOR DEOXIDIZING STEEL 67-09 M04-76545
DEOXIDATION OF IRON MELTS BY ZIRCONIUM 67-09 M04-77188
OXYGEN CONTENT OF METAL IN OPEN-HEARTH FURNACE AND OXYGEN CONVERTER 67-09 M04-77265
EFFECT OF DEOXIDATION ON THE PROPERTIES OF CERTAIN STEELS IN LIQUID AND SOLID STATES 67-09 M04-77861
CHEMICAL BEHAVIOR OF DISSOLVED OXYGEN DURING DEOXIDATION WITH SILICON 67-09 M14-76756
INFLUENCE OF FERROCERIUM AND CALCIUM SILICIDE ON THE PROPERTIES OF LOW ALLOY CAST STEEL 35KH2GM 67-09 M17-78083
EFFECT OF KILLING WITH ALUMINUM-BEARING FERROALLOYS ON THE QUALITY OF TUBE STEEL 67-10 M04-78423
THE ROLLING OF TUBES AND SHAPES FROM CONTINUOUSLY CAST STEELS 67-10 M04-78653
THE ELECTROLYTIC DEOXIDATION OF METALLIC MELTS,

PARTICULARLY STEEL AND CU 67-10 M04-78792
IMPROVING THE QUALITY OF SEMI-KILLED OR BALANCED STEEL AT THE PETROVSKII WORKS 67-10 M04-79265
THERMODYNAMIC DISTRIBUTION OF ELEMENTS WHEN KILLING IRON WITH SILICON 67-10 M04-79315
SURFACING AND ELIMINATION OF NONMETALLIC INCLUSIONS FROM LIQUID STEEL 67-10 M04-79715
MEASUREMENT OF OXYGEN PRESSURE IN LIQUID IRON BY THE OXYGEN CONCENTRATION CELLS WITH THE SOLID ELECTROLYTE, ZRO2.CAO 67-10 M19-79992
DEOXIDATION STUDIES ON ARMCO IRON IN A MULTICHAMBER ELECTRON BEAM FURNACE 67-11 M04-80204
BEHAVIOR OF OXYGEN IN ELECTROSLAG REMELTING 67-11 M04-80208
LADLE DEOXIDIZING TUBE STEEL 67-11 M04-81037
THE FORMATION OF PRIMARY DEOXIDATION PRODUCTS IN STEEL. PT. 1. THE DEOXIDATION OF UNALLOYED STEELS WITH AL 67-11 M04-81374
BALLBEARING LIFE--EFFECT OF SILICOBARIUM AS A DEOXIDIZER, AND OF VACUUMING 67-11 M04-81405
LOW-ALLOY MANGANESE STEEL..MELTING TECHNOLOGY AND IMPROVED PROPERTIES 67-11 M04-81431
DISTRIBUTION OF OXYGEN AND ALUMINUM BETWEEN METALLIC AND OXIDE PHASES IN THE CO-O-AL AND NI-O-AL SYSTEMS 67-11 M13-81154
THE GROWTH AND THE DISTRIBUTION OF THE INCLUSIONS COMPOSED OF A LAYER-LIKE INCLUSIONS GROUP DURING THE DEOXIDATION OF LIQUID IRON WITH ALUMINUM 67-11 M14-80955
TYPES OF REFRACTORY ALLOYS AND THE METHODS BY WHICH THEY ARE PRODUCED. PT. 2 67-12 M03-81922
DEOXIDATION OF LIQUID COPPER BY A SUBMERGED GAS JET 67-12 M03-82746
METALLURGY OF CU FOR ELECTRICAL USE 67-12 M03-82896
IMPROVING THE PROPERTIES OF ELECTRIC STEEL FOR CASTINGS 67-12 M04-81722
DEOXIDIZING METAL IN HIGH-CAPACITY ARC FURNACES 67-12 M04-81866
PRODUCING HEAVY-GAGE CHROMIUM-NICKEL STEEL CONTAINING NIOBIUM 67-12 M04-81867
MEASURING OXYGEN CONCENTRATION IN METAL IN AN ARC FURNACE BY THE ELECTROMOTIVE FORCE METHOD 67-12 M04-82306
IMPROVEMENT IN QUALITY OF OPEN-HEARTH STEEL BY TREATMENT WITH ALLOYS OF RARE-EARTH METALS 67-12 M04-82401
EFFECT OF SIMULTANEOUS ADDITIONS OF MAGNESIUM AND RARE EARTH ALLOY ON THE MANUFACTURING OF NODULAR GRAPHITE CAST IRON 67-12 M04-82824
PHENOMENA OCCURRING DURING THE FORMATION OF PRIMARY DEOXIDATION PRODUCTS IN STEELS. PT. 2. DEOXIDATION OF UNALLOYED STEELS BY TITANIUM AND OF ALLOY STEELS BY ALUMINIUM 67-12 M04-83394
KINETICS OF THE FORMATION OF ALUMINA INCLUSIONS DURING DEOXIDATION OF LIQUID IRON WITH ALUMINUM 67-12 M04-83395
TECHNOLOGICALLY IMPROVED DEOXIDATION OF RAIL STEEL WITH ALUMINUM 67-12 M04-83413
EFFECT OF DEOXIDATION BY MEANS OF ALUMINIUM-CONTAINING FERROALLOY ON THE QUALITY OF TUBE STEEL 67-12 M04-83421
DESULFURIZING NONDEOXIDIZED SHKH15 STEEL BY TREATING IT WITH ELECTRIC SLAGS WHEN TAPPED TO THE LADLE 67-12 M04-83467
DEOXIDIZING RAIL STEEL WITH SILICOMANGANESE 67-12 M04-83471

DEOXIDIZING, IMPURITY EFFECTS
FORMATION AND REMOVAL OF OXIDE INCLUSIONS DURING TAPPING, CASTING AND CRYSTALLIZATION OF LOW-CARBON STEEL 67-06 M04-69968

DEOXIDIZING, STEEL MAKING
DEOXIDIZING RIMMING CONVERTER STEEL 67-10 M04-79818

DEPHOSPHORIZING
EXPERIENCE WITH CLASSIFIED POWDERED LIME IN BASIC OPENHEARTHS 67-02 M04-62097
MANUFACTURING MEDIUM CARBON STEEL FROM HIGH PHOSPHORUS PIG IRON IN THE CONVERTER USING POWDERED LIME 67-04 M04-66204
A METHOD OF MELTING STEEL 67-04 M04-66704
TOP-BLOWING WITH OXYGEN FOR STEELMAKING IN CONVERTERS USING HIGH-PHOSPHORUS IRON 67-04 M04-66706
HIGH-PHOSPHORUS IRON PROCESSED IN CONVERTERS BOTTOM-BLOWN WITH A MIXTURE OF CARBON DIOXIDE AND OXYGEN 67-04 M04-67095
EFFECTS OF MANGANESE ON THE ELIMINATION OF SULFUR AND PHOSPHORUS IN THE OXYGEN-BLOWN CONVERTER PROCESS 67-04 M04-67229
REMOVING HARMFUL IMPURITIES FROM THE METAL IN OXYGEN CONVERTER STEELMAKING 67-04 M04-67685
POWDERED OR LUMPY LIME FOR THE BASIC OXYGEN FURNACE 67-04 M04-68045
ON THE LD-AC AND LD-KALDO PROCESSES 67-05 M04-68538
MELTING PRACTICE FOR HIGH CARBON STEEL MADE BY THE BASIC OXYGEN LD PROCESS 67-05 M04-68729
FORMATION OF SLAG AND DEPHOSPHORIZATION IN THE EARLY STAGES OF THE BASIC OXYGEN LD PROCESS 67-05 M04-68733
BEHAVIOR OF PHOSPHORUS DURING MELTING OF NATURALLY-ALLOYED STEEL 67-06 M04-71243
INVESTIGATION INTO VARIOUS PHENOMENA IN THE BASIC OXYGEN LD FURNACE, USING ROOM TEMPERATURE MODELS 67-06 M04-72212
OUTLINE OF THE BASIC OXYGEN LD-AC PLANT AND OPERATING RESULTS AT KAWASAKI, JAPAN, WORKS. PT. 1. --ON THE LD-AC PROCESS AT NIHON STEEL TUBE KAWASAKI WORKS-- 67-07 M04-72441
CONTRIBUTION TO THE STUDY OF DEPHOSPHORIZATION IN THE OXYGEN TOP-BLOWING CONVERTER 67-07 M04-72475
INJECTION OF POWDERED MATERIALS INTO ELECTRIC ARC FURNACE TO ACCELERATE THE STEELMAKING REACTIONS 67-07 M04-72546
THE METALLURGY OF THE BASIC OXYGEN PROCESSES 67-07 M04-72892
DEPHOSPHORIZATION OF MANGANESE ORES FROM THE NIKOPOL DEPOSIT 67-08 M02-74880
IRON FOR STEELMAKING AT CORBY 67-08 M04-74656
BEHAVIOUR OF PHOSPHORUS WHEN MELTING NATURALLY ALLOYED STEEL 67-08 M04-75712
LD-PROCESS AS APPLIED TO PRODUCTION OF STEEL CASTINGS 67-08 M04-76166
ESTIMATION OF THE DEPHOSPHORIZING CAPACITY OF SUPEROXIDIZED SLAGS 67-08 M04-76230
DISTRIBUTION OF PHOSPHORUS BETWEEN MOLTEN IRON AND FERROUS SLAG 67-09 M04-77853
ACCELERATED REFINING BY POWDER INJECTION IN THE ELECTRIC ARC FURNACE 67-09 M04-78005
THE CARBURIZATION OF IRON MELTS IN THE GRAPHITE CRUCIBLE, ANOTHER EXAMPLE OF THE PARTICULARITIES OF METALLURGICAL REACTIONS 67-10 M04-79057
MODELING HIGH-CAPACITY OXYGEN CONVERTERS 67-10 M04-79320
OXYGEN CONVERTER MELTS PRODUCED FROM PIG IRON, POOR IN PHOSPHORUS 67-10 M04-79899
SOLIDIFICATION OF THE ALUMINUM-SILICON ALLOYS AND THE EFFECT OF ADDITION ELEMENTS. PT. 1 67-10 M14-79082
IMPROVING THE PRODUCTION OF MANGANESE ALLOYS 67-11 M04-81150
HOW OPENHEARTH BATH TEMPERATURES AFFECT DESULFURIZATION AND DEPHOSPHORIZATION DURING THE WORKING-UP PERIOD 67-12 M04-82479
HOW CHARGE MAKE-UP AFFECTS PHOSPHORUS CONTENT IN FERROCHROMIUM WITH EXTRA-LOW CARBON COMPONENT 67-12 M04-82498

DEPLETION
GRAIN BOUNDARY OXIDATION AND THE CHROMIUM-DEPLETION THEORY OF INTERCRYSTALLINE CORROSION OF AUSTENITIC STAINLESS STEELS 67-11 M18-80708

DEPOLARIZATION
INFLUENCE OF CHLORIDE IONS ON THE ELECTRODEPOSITION OF ZINC AND CADMIUM IN THE PRESENCE OF SURFACE-ACTIVE SUBSTANCE 67-08 M03-74480

DEPOSITION
SEE ALSO ALUMINUM PLATING
CADMIUM PLATING
COATING
COBALT PLATING
ROLL PLATING
SEDIMENTATION
VIBRATION WELD-SURFACING 67-01 M12-57203
PHASE AND ORDER TRANSITIONS DURING AND AFTER FILM DEPOSITION 67-01 M14-57121
METHOD FOR MOUNTING THIN FILMS WITHOUT SUBSTRATES 67-05 M12-68658
SOME APPLICATIONS OF CONTOUR DEPOSITION 67-10 M12-78866
STUDY OF DEPOSITION OF BORON ON THE SURFACE OF ZIRCONIUM 67-12 M12-82287

DESALINATION
SEE DESALTING

DESALTING
WATER DESALINATION POSES TOUGH MATERIALS PROBLEMS

DESALTING
67-05 M18-68427
ALLOYS FOR SEA WATER CONVERSION. COPPER-BASE ALLOYS FOR HEAT EXCHANGE EQUIPMENT 67-08 M18-75742
WHY COPPER-NICKEL ALLOYS FOR DESALINATION
67-11 M18-80289
THE APPLICATION OF TITANIUM FOR DESALINATION PLANTS
67-11 M18-80290
APPLICABILITY OF ALUMINUM FOR DESALINATION PLANTS
67-11 M18-80291
APPLICATION OF STEELS FOR DESALINATION PLANTS
67-11 M18-80292
DESALTING, CORROSION ENVIRONMENTS
DONT DISCOUNT STEEL FOR DESALINATION PLANTS
67-07 M18-73800
DESCALING
REMOVAL OF SCALE ON WIRE ROD 67-01 M12-57909
NEW PUSH FOR HCL IN PICKLING 67-01 M12-57949
PICKLING ACIDS AND INHIBITORS 67-02 M12-59004
METHOD OF DESCALING TUBES 67-02 M12-59684
DOSCO STEEL PROCESSING FLAT ROLLED STRIP IN QUEBEC
67-02 M12-60240
A COMPARISON OF VARIOUS METHODS OF DETERMINING METAL SCALING LOSSES 67-02 M18-61757
DOSCO MONTREAL MILL CHURNS OUT STEEL USING NO-ACID DESCALING 67-04 M06-66697
INVESTIGATION OF THE PICKLING OF KH18N10T STEEL SHEETS IN RELATION TO CONDITIONS OF QUENCH HEATING 67-05 M12-68333
MILD BATH FOR STEEL 67-05 M12-68604
HYDROGEN ABSORPTION BY VERY STRONG STEEL DURING CHEMICAL DESCALING 67-05 M12-68635
I/USALT BATH DESCALING AND PICKLING OF NICKEL ALLOY WIRE 67-05 M12-68671
INVESTIGATION OF PICKLING OF KH18N9T STAINLESS STEEL IN THE MIXTURE OF H2SO4, HCL AND HNO3 ACIDS
67-05 M12-69834
GRIT BLASTING NOZZLE FABRICATED FROM MILD TOOL STEEL PROVES SATISFACTORY 67-06 M12-70001
HYDRAULIC DESCALING IN A BREAKDOWN MILL AT THE KLEMENT GOTTWALD WORKS 67-06 M12-70922
COLD-ROLLING WITHOUT ACID PICKLING
67-06 M12-71581
USE OF SODIUM GLUCONATE IN ELECTROLYTIC BATHS FOR DEGREASING AND DESCALING IN PLATING INDUSTRY
67-06 M12-71812
FIRST KRUPP/PLATZER PLANETARY ROLLING MILL IN OPERATION 67-07 M07-73330
HEAT TREATMENT AND DESCALING OF WIRE ROD IN VACUO
67-07 M10-72715
INVESTIGATING THE PICKLING OF KH18N10T STEEL PLATE IN RELATION TO CONDITIONS UNDER WHICH PLATES ARE HEATED FOR QUENCHING 67-07 M12-72861
ABRASIVE CLEANING OF WIRE AND WIRE ROD
67-07 M12-74300
BOILER SCALE REDUCED BY MAGNETIC TREATMENT
67-07 M18-74247
OUTSIZE BALL BLANKET CURES TRAPPING PROBLEM
67-08 M12-74459
RESEARCH ON THE CORROSION OF SOME METALS AND METAL OXIDES IN SODIUM HYDROXIDE MELTS
67-10 M18-78465
THE PREPARATION AND PRETREATMENT OF METAL SURFACES
67-10 M18-80097
SANDBLASTING 67-11 M12-80577
LEACHING PRECISION CASTINGS 67-11 M12-81362
CHEMICAL DERUSTING IN THE PRODUCTION LINE
67-12 M12-82131
INVESTIGATION OF THE PICKLING OF SCALE-COATED STEEL KH18N9T IN A MIXTURE OF SULFURIC, HYDROCHLORIC, AND NITRIC ACIDS 67-12 M12-82267
PREPARATION OF IRON AND STEEL WIRE FOR THE PRODUCTION OF SCREWS, NUTS AND FORMED COMPONENTS
67-12 M12-82443
METHOD OF DESCALING AND PASSIVATING ACID-RESISTANT AND HIGH-TEMPERATURE CORROSION-RESISTANT STAINLESS STEEL SHEETS IN A PICKLING SOLUTION
67-12 M12-82906
ABRASIVES REPLACE ACID IN DESCALING STEEL STRIP
67-12 M12-83136
DESCALING, AUTOMATION
AUTOMATION IN PICKLING 67-11 M12-80297
DESIGN
HINTS ON THE DESIGN OF LARGE DRAWING DIES
67-01 M08-58112
ENGINEERING DESIGN 67-08 M01-75610
DESIGN PRECEPTS FOR QUALITY PLATING
67-10 M12-79990
DESILICATION
CHEMICAL MODEL OF DESILICONIZING AND DESULFURIZING IRON IN A MIXER 67-04 M04-66848
METHOD OF PROCESSING HIGH-SILICA HYDRAGILLITE BAUXITES 67-06 M02-70940
METHOD OF PROCESSING HIGHLY FERRUGINOUS AND HIGHLY SILICIOUS BAUXITES 67-06 M03-70934
TESTING THE METHOD OF AUTOCLAVE-FREE DESILICATION OF ALUMINATE SOLUTIONS 67-06 M03-71307
REMOVAL OF SILICON DURING CARBON ELIMINATION FROM LIQUID IRON USING STEAM-ARGON MIXTURES
67-06 M04-72391
THE USE OF GRAY MUD AS A DESILICATION ADDITION
67-08 M03-76240
DESILICONIZING
THE PATTERN OF NITROGEN, SILICON, AND SULFUR ELIMINATION AND THE BEHAVIOR OF TITANIUM DURING THE PRETREATMENT OF OPENHEARTH AND BASIC BESSEMER HOT METALS WITH SODA
67-07 M04-72707
PRODUCTION OF ALKALINE METALS AND MAGNESIUM BY REFINING LIQUID BASIC PIG IRON OUTSIDE THE BLAST FURNACE 67-09 M03-77048
OXIDATION STUDIES OF MOLTEN IRON ALLOY DROPS
67-10 M04-78330
DESILICONIZING, STEEL MAKING
SOME ASPECTS OF CARBON AND SILICON OXIDATION IN BESSEMER CONVERSIONS 67-10 M04-79819
DESLIMERS
SEE WET CLASSIFIERS
DESORPTION
THE HYDROGEN-PALLADIUM SYSTEM. THE ROLE OF X-RAY AND NEUTRON DIFFRACTION STUDIES
67-05 M14-69283
INVESTIGATION OF THE DESORPTION OF GASES FROM METAL SURFACES UNDER THE ACTION OF ELECTRON BOMBARDMENT
67-06 M14-72036
EMISSION AND ADSORPTION PROPERTIES OF THE W-LA SYSTEM 67-06 M16-70510
ADSORPTION, ABSORPTION, AND DEGASSING IN THE OXYGEN-NIOBIUM SYSTEM AT VERY LOW PRESSURE
67-07 M14-73453
THE ADSORPTION KINETICS OF HYDROGEN IN SUSPENSIONS OF METALLIC CATALYSTS. PT. 2 67-08 M14-75641
THE CHEMISORPTION OF CARBON MONOXIDE ON POLYCRYSTALLINE MOLYBDENUM 67-08 M14-75920
INVESTIGATION OF THE GASEOUS PHASE AND CONDITIONS OF DEGASSING CHARGES IN THE PRODUCTION OF ALKALINE METALS BY VACUUM-THERMAL METHODS
67-09 M03-77049
DESORPTION OF SURFACE ATOMS BY EMERGING HIGH-ENERGY ELECTRONS 67-10 M14-78869
SURFACE IONIZATION. PT. 1. DESORPTION OF U PLUS IONS FROM W AND RE SURFACES 67-10 M14-78876
THE TRAPPING OF HYDROGEN IONS IN MOLYBDENUM, TITANIUM, TANTALUM AND ZIRCONIUM
67-10 M14-79336
ADSORPTION, SURFACE REACTION, AND MUTUAL DISPLACEMENT OF CO, CO2 AND O2 ON TITANIUM FILM
67-10 M14-79576
THE POSSIBILITY OF OXIDE FORMATION ON THE TUNGSTEN SURFACE AT ROOM TEMPERATURE 67-10 M18-79577
NITROGEN ABSORPTION AND DESORPTION BY LIME-ALUMINA SLAG 67-11 M14-81643
DESORPTION, RADIATION EFFECTS
ELECTRON-BOMBARDMENT DESORPTION OF CARBON MONOXIDE ADSORBED ON TUNGSTEN 67-11 M16-80120
DESTRUCTIVE TESTING
INSPECTION OF SPIRALLY WELDED PIPE
67-07 M19-72705
DESULFURIZING
DESULFURIZATION OF IRON IN THE BLAST FURNACE HEARTH WHEN OPERATING WITH LOW-SLAG YIELD
67-01 M04-57173
DESULFURIZATION OF STEEL IN OXYGEN CONVERTERS
67-01 M04-57177
ON DESULFURIZATION OF PIG IRON FOR STEEL MANUFACTURE IN THE REVERSIBLE SHAKING LADLE --DM CONVERTER-- AND PRODUCTION OF LOW SULFUR STEELS
67-01 M04-58596
MELTING OF BASIC PIG IRON OF LOW SULFUR CONTENT
67-02 M04-59508
IMPROVED QUALITY SMALL-GAGE STEEL
67-02 M04-59536
USE OF MANGANESE ORE IN OPENHEARTH FURNACES
67-02 M04-59572
SULFUR IN INDUSTRIAL COKE AND ITS BEHAVIOR IN BLAST FURNACE MELTING 67-02 M04-59858
REVERSIBLE SHAKING LADLE --D-M CONVERTER--
67-02 M04-60619
REMOVING SULFUR WITH CONVERTER GASES WHEN BLOWING

THE POOL WITH A LOW-INTENSITY OXYGEN JET
67-02 M04-61867
EXPERIENCE WITH CLASSIFIED POWDERED LIME IN BASIC OPENHEARTHS 67-02 M04-62097
DESULFURIZING METAL DROPS IN THE SLAG BY ELECTRICAL CURRENT 67-02 M04-62173
INCREASING THE DEGREE OF IRON SUPERHEATING AND DECREASING THE SULFUR IN CUPOLA MELTING OF THERMOANTHRACITE 67-02 M06-60077
CHANGES IN THE CHEMICAL COMPOSITION OF CAST IRON AFTER TREATING WITH MAGNESIUM AND HOLDING IN THE LADLE 67-02 M06-61185
DESULFURIZING PIG IRON VIA SOLID SLAG IN VACUUM
67-04 M04-66009
EFFECT OF MANGANESE ON DESULFURIZATION OF THE SYSTEM FE-C-S-MN IN VACUUM 67-04 M04-66025
DISTRIBUTION OF SULFUR BETWEEN SLAG AND METAL IN ELECTROSLAG REMELTING 67-04 M04-66040
MELTING OF DUCTILE IRON IN INDUCTION FURNACES IN SWEDEN 67-04 M04-66281
METALLURGICAL TREATMENT OF HOT METAL BY CONTROLLED BATH MOVEMENT TO FACILITATE THE MIXING EFFECT
67-04 M04-66328
CHEMICAL MODEL OF DESILICONIZING AND DESULFURIZING IRON IN A MIXER 67-04 M04-66848
RESEARCH ON TECHNOLOGY FOR PRODUCING STEEL IN ARC FURNACES WITH A PRELIMINARY REDUCING PERIOD
67-04 M04-66903
PRETREATMENT OF IRON IN THE MIXER AND ITS USE TO MAKE STEEL IN OPENHEARTH FURNACES
67-04 M04-67094
DESULPHURISATION OF METAL DROPLETS IN SLAG BY PASSING AN ELECTRIC CURRENT 67-04 M04-67170
EFFECTS OF MANGANESE ON THE ELIMINATION OF SULFUR AND PHOSPHORUS IN THE OXYGEN-BLOWN CONVERTER PROCESS 67-04 M04-67229
MODELING THE DESULFURIZATION PROCESS IN THE BATH OF A CONVERTER TOP-BLOWN WITH OXYGEN
67-04 M04-67240
HOW NICKEL AFFECTS THE KINETICS OF IRON DESULFURIZATION BY A LIME-ALUMINA SLAG AT 1600 C
67-04 M04-67445
DUCTILE IRON PROCESS SPEEDS DESULFURIZING AND NODULARIZING 67-04 M04-67500
THE PROCESS OF DESULFURIZATION IN AN OXYGEN CONVERTER 67-04 M04-67607
BRIQUETS AS A SLAGFORMING MATERIAL IN STEEL PRODUCTION 67-04 M04-67608
REMOVING HARMFUL IMPURITIES FROM THE METAL IN OXYGEN CONVERTER STEELMAKING 67-04 M04-67685
REMOVAL OF SULPHUR WITH CONVERTER GASES WHEN TOP BLOWING HOT METAL WITH A LOW INTENSITY JET OF OXYGEN 67-04 M04-67686
POWDERED OR LUMPY LIME FOR THE BASIC OXYGEN FURNACE
67-04 M04-68045
BEHAVIOR OF SULFUR IN SINTERING CONDITIONS
67-05 M02-69505
ON THE LD-AC AND LD-KALDO PROCESSES
67-05 M04-68538
DISTRIBUTION OF SULFUR IN THE TUYERE ZONE OF THE BLAST FURNACE 67-05 M04-68543
A SIMPLE DEVICE TO ACCELERATE METALLURGICAL REACTIONS 67-05 M04-68598
REMOVAL OF SULFUR IN THE GAS PHASE OF THE BASIC OXYGEN LD PROCESS 67-05 M04-69063
DESULFURIZATION OF PIG IRON OUTSIDE THE BLAST FURNACE 67-05 M04-69066
EFFECT OF BASICITY OF BLAST-FURNACE SLAG ON THE SULFUR CONTENT OF THE IRON 67-05 M04-69073
DESULFURIZING PIG IRON IN THE MIXER
67-05 M04-69684
INFLUENCE OF RARE EARTH ELEMENTS ON THE CRYSTALLIZATION OF CARBON STEEL
67-05 M13-68378
OXIDATION OF SULFUR BY MAGNETITE, HEMATITE AND CARBON DIOXIDE GAS 67-06 M02-70268
DESULFURIZING BY THE CTIF-VOLIANIK PROCESS
67-06 M04-70670
DESULFURIZING IRON WITH MAGNESIUM
67-06 M04-70935
DEOXIDATION AND REFINING OF STEEL IN ARC FURNACES OF VARIOUS CAPACITY 67-06 M04-71252
PERFORMANCE OF MISCH METAL IN THE DEOXIDATION AND DESULFURIZATION OF PURE IRON. PT. 7. INVESTIGATIONS INTO PURE IRON
67-06 M04-72288
MELTING PLANT FOR SPHEROIDAL GRAPHITE IRON
67-06 M06-70023
DUCTILE IRON--A PERIOD OF ADJUSTMENT
67-06 M06-71050
NATURE OF SULPHUR DISTRIBUTION IN THE TUYERE ZONE OF THE BLAST FURNACE 67-07 M04-72454
INJECTION OF POWDERED MATERIALS INTO ELECTRIC ARC FURNACE TO ACCELERATE THE STEELMAKING REACTIONS
67-07 M04-72546
THE PATTERN OF NITROGEN, SILICON, AND SULFUR ELIMINATION AND THE BEHAVIOR OF TITANIUM DURING THE PRETREATMENT OF OPENHEARTH AND BASIC BESSEMER HOT METALS WITH SODA
67-07 M04-72707
APPLICATION OF ULTRASONIC VIBRATIONS TO THE REMOVAL OF SULFUR FROM LIQUID PIG IRON
67-07 M04-72725
INVESTIGATION OF CARBURIZATION AND DESULFURIZATION IN LOW-SHAFT ELECTRIC FURNACES
67-07 M04-73238
THE GYRATORY LADLE, A NEW DESULFURIZING AND CARBURIZING TOOL FOR LIQUID IRON
67-07 M04-73250
DESULPHURIZATION OF HOT METAL IN THE MIXER
67-07 M04-74070
SULFUR REMOVAL IN SINTERING MAGNETITE IRON ORES AND CONCENTRATES WITH MAGNESIAL GANGUE. PT. 2
67-08 M02-74575
THE KINETICS OF DESULFURIZATION OF NICKEL MATTE IN A FLUIDIZED BED 67-08 M02-75448
ANODIC REMOVAL OF SULFUR FROM MOLTEN SLAGS
67-08 M04-74322
IRON FOR STEELMAKING AT CORBY 67-08 M04-74656
DEOXIDATION AND REMOVAL OF IMPURITIES IN VARIOUS SIZES OF ARC FURNACES 67-08 M04-75721
EFFECT OF SLAG COMPOSITION ON THE TRANSFER RATE OF SULFUR AND SLAG VISCOSITY IN BLAST FURNACE
67-08 M04-75801
STUDY OF THE EFFECT OF OXIDIZING POTENTIAL OF GAS ATMOSPHERE ON DEGREE OF DESULFURIZATION IN ELECTROSLAG REMELTING 67-08 M04-75868
LD-PROCESS AS APPLIED TO PRODUCTION OF STEEL CASTINGS 67-08 M04-76166
EFFECTIVE DESULFURIZING OF IRON OUTSIDE THE FURNACE 67-09 M02-76574
STUDY OF MINERAL FORMATION AND DESULFURIZATION IN ROASTING BARITE-BEARING HEMATITE ORES
67-09 M02-77264
SULFUR REMOVAL IN ROASTING MAGNETITE IRON ORES AND CONCENTRATES CONTAINING MAGNESIAL GANGUE. PT. 7
67-09 M02-77358
ELECTROMAGNETIC STIRRER FOR DESULFURIZING IRON OUTSIDE THE FURNACE 67-09 M04-76988
OXIDATION OF SULFUR, DISSOLVED IN MOLTEN IRON, BY OXYGEN OF THE GAS PHASE 67-09 M04-77267
DESULFURIZING CAPACITY OF CAF2-BASE SLAGS
67-09 M04-77269
ACCELERATED REFINING BY POWDER INJECTION IN THE ELECTRIC ARC FURNACE 67-09 M04-78005
STUDY OF WHIRL SINTERING OF POLYMETALLIC SULFIDE CONCENTRATES 67-10 M02-80047
DESULFURIZATION KINETICS OF NICKEL-NICKEL SULFIDE MIXTURE IN THE FLUIDIZED BED 67-10 M03-79129
OXIDATION STUDIES OF MOLTEN IRON ALLOY DROPS
67-10 M04-78330
DESULFURIZING IRON BY BLOWING WITH LIME AND OTHER REAGENTS 67-10 M04-78416
POROUS PLUG DESULFURIZING 67-10 M04-79289
MODELING HIGH-CAPACITY OXYGEN CONVERTERS
67-10 M04-79320
THE DESULFURIZATION OF PIG IRON BY THE IMMERSION LANCING PROCESS 67-10 M04-79697
SULFUR REMOVED BY ELECTROMAGNETICALLY STIRRING LADLE IRON 67-10 M04-80037
STUDY OF SULFUR REMOVAL IN TRANSFORMER STEELMAKING
67-10 M04-80044
DESULFURIZING CARBON FERROCHROME OUTSIDE THE FURNACE 67-10 M04-80082
DESULFURIZING PIG IRON 67-11 M04-81016
WHY SULFUR BUILDS UP IN LARGE OPENHEARTH-MELTED STEEL 67-11 M04-81234
LADLE DESULFURIZING OF PIG IRON
67-11 M04-81306
EFFECT OF RECRYSTALLIZATION CONDITIONS ON THE LIQUATION OF SULFUR IN A STEEL INGOT WHICH CONTAINS RARE EARTH METALS 67-11 M04-81650
PRODUCING A COMMERCIALLY PURE IRON FROM VACUUM-DESULFURIZED CAST IRON. PT. 2
67-11 M04-81652
POROUS PLUG FOR CARBURIZING AND DESULFURIZING MOLTEN FE IN FOUNDRY LADLES 67-11 M06-80387
DESULFURIZATION OF MOLTEN CARNALLITE WITH METALLIC

DESULFURIZING
MAGNESIUM 67-12 M02-83093
ON THE TRANSFER OF SULFUR FROM METAL TO SLAG 67-12 M04-81701
OXIDATION OF SULFUR IN CAST IRON AND SLAG BY OXYGEN 67-12 M04-81793
HOW OPENHEARTH BATH TEMPERATURES AFFECT DESULFURIZATION AND DEPHOSPHORIZATION DURING THE WORKING-UP PERIOD 67-12 M04-82479
EFFECT OF SIMULTANEOUS ADDITIONS OF MAGNESIUM AND RARE EARTH ALLOY ON THE MANUFACTURING OF NODULAR GRAPHITE CAST IRON 67-12 M04-82824
DESULPHURIZATION OF PIG IRON BY INJECTING LIME AND OTHER REAGENTS 67-12 M04-83414
DESULFURIZING NONDEOXIDIZED SHKH15 STEEL BY TREATING IT WITH ELECTRIC SLAGS WHEN TAPPED TO THE LADLE 67-12 M04-83467
SULPHUR DISTRIBUTION BETWEEN THE PHASES IN HIGH-CARBON FERROCHROMIUM 67-12 M14-82159
DESULFURIZING, ALLOYING EFFECTS
THE EFFECT OF CA ON CAST IRON MELTS 67-06 M14-70042
DESULFURIZING, OPENHEARTH PROCESS
PROBLEMS IN OIL-FIRED OPENHEARTH FURNACES 67-02 M04-59871
DETECTION
SEE ALSO FLAW DETECTION
THE APPLICATION OF ELECTRONIC SORTING TO MINERALS BENEFICIATION 67-05 M02-68644
DETECTORS
FABRICATION OF THICK GERMANIUM DETECTORS 67-08 M20-75307
DETERIORATION
CONTROL OF HEARTH REFRACTORY DECOMPOSITION IN IDLE BASIC OPEN HEARTH FURNACES 67-03 M04-65515
INVESTIGATION OF THE EFFECTS OF BURDEN CONSTITUENTS ON BLAST FURNACE REFRACTORY LININGS 67-06 M04-71387
THE FUNDAMENTAL SOF METAL DUSTING 67-10 M18-79372
DETONATION
EXPLOSIVE COMPACTING OF METAL POWDERS 67-07 M09-73862
DETONATION WAVES
SEE DETONATION
SHOCK WAVES
DEUTERIUM, ABSORPTION /MATERIAL/
COMPARISON OF HYDROGEN AND DEUTERIUM SOLUBILITY IN PALLADIUM-RICH ALLOYS. GOLD-PALLADIUM 67-08 M14-75385
DEUTERIUM, DIFFUSION
ELASTIC RELAXATION DUE TO DEUTERIUM INTERSTITIAL ATOM DIFFUSION IN TANTALUM 67-02 M14-59734
DEUTERIUM, PHYSICAL PROPERTIES
PERMEATION OF HYDROGEN AND DEUTERIUM IN ALPHA IRON 67-12 M15-82876
DEUTERONS
EFFECTS OF VARIOUS DOPING TREATMENTS UPON THE DAMAGE PRODUCTION AND RECOVERY OF DEUTERON-IRRADIATED ALUMINUM 67-11 M16-81392
MEASUREMENT OF DIFFUSION OF GOLD IN COPPER BY ELASTIC SCATTERING OF DEUTERON 67-12 M14-82357
DEUTERONS, ELASTIC SCATTERING
MEASUREMENT OF DIFFUSION OF GOLD IN COPPER BY ELASTIC SCATTERING OF DEUTERON 67-11 M14-80194
DEUTERONS, PHYSICAL PROPERTIES
NUCLEAR MAGNETIC RESONANCE OF THE DEUTERON IN LANTHANUM BIDEUTERIDE 67-12 M16-82137
DEVITRIFICATION
SEE CRYSTALLIZATION
DEW POINT METHOD
GAS CARBURIZING BY INSTILLATION OF ORGANIC LIQUIDS. RECENT EXPERIMENTS 67-06 M10-71906
ATMOSPHERES FOR MODERN HEAT TREATING--CONTROLLING THEIR COMPOSITION 67-06 M19-70720
DEWAR FLASKS, DESIGN
A CRYOSTAT AND SUPERCONDUCTING MAGNET SYSTEM FOR EXPERIMENTS IN HIGH MAGNETIC FIELDS BETWEEN 1 AND 300 K 67-08 M15-75653
DEZINCIFICATION
DEZINCIFICATION OF BRASS 67-02 M18-59987
CORROSION OF COPPER-ZINC ALLOYS UNDER THE EFFECT OF ALTERNATING CURRENT 67-02 M18-61562
DAMAGE CAUSED BY DEZINCIFICATION 67-04 M14-67081
THE TREATMENT OF DEZINCIFICATION 67-04 M18-67489
COMPARATIVE STUDY OF THE KINETICS AND MECHANISM OF DEZINCIFICATION OF 70/30 BRASSES WITH OR WITHOUT ADDITIONS OF TIN AND ARSENIC 67-05 M18-69113
DEZINCIFICATION OF BRASS 67-10 M18-80009
DIAGRAMS
SEE PHASE DIAGRAMS
S N DIAGRAMS
DIAMAGNETISM
KINETIC REACTIONS OF CO ON DIVIDED NICKEL 67-12 M14-82695
DIAMAGNETISM, IMPURITY EFFECTS
PROPERTIES OF NONMAGNETIZABLE NE-METALS AND THEIR METALLURGICAL IMPORTANCE 67-02 M15-59907
DIAMOND BITS
SEE DIAMOND TOOLS
DIAMOND BURNISHING
PRECISION FINISHING OF FERRITE AND CERAMIC MAGNETIC COMPONENTS 67-07 M08-73830
CARBIDE TOOL GRINDING AT A MODERN TRACTOR PLANT 67-07 M08-74167
FASTER FINISHING OF TUNGSTEN CARBIDE DIES 67-07 M12-74168
DIAMOND HONING OF ANODIZED ALUMINUM ALLOYS 67-12 M08-81997
DIAMOND DRILLS
SEE DIAMOND TOOLS
DRILLS
DIAMOND TOOLS
DIAMOND DRESSING IN THE PRODUCTION OF TAPERED ROLLER BEARINGS 67-01 M08-58786
DIE PART OUTPUT DOUBLED WITH DE BEERS SYNTHETIC DIAMOND 67-01 M08-58787
THE USE OF DIAMONDS IN METAL-WORKING 67-02 M08-59998
GRINDING WITH DIAMONDS--RESEARCH, PRODUCTION RESULTS 67-02 M08-60242
DIAMOND TOOLS SHAPE TWO-MILE TUBE 67-02 M08-61003
SYNTHETIC DIAMONDS AND THEIR APPLICATIONS IN MODERN SOVIET INDUSTRY 67-03 M08-65161
AN ANALYSIS OF THE COATED DIAMOND/BOND SYSTEM 67-03 M08-65171
ULTRASONICS SPEED DIAMOND MACHINING 67-03 M08-65463
HONING WITH DIAMOND TOOLS 67-03 M08-65714
GRAY IRON IS A DIAMONDS BEST FRIEND 67-04 M08-66581
DIAMOND HONING OF QUENCHED CAST IRON CYLINDER LINERS 67-04 M08-66632
THE USE OF ELECTRODEPOSITED GRINDSTONE FOR HONING 67-04 M08-66663
DIAMONDS IN INDUSTRY 67-04 M08-67495
LAPPING SPOT FACES ON AIR BEARING END PLATES 67-04 M08-67764
THE IMPORTANCE OF PURITY IN PROCESSING TUNGSTEN CARBIDE 67-05 M08-68804
INFLUENCE OF DIAMOND GRINDING ON PHYSICAL AND MECHANICAL PROPERTIES OF T15K6 CERMET AND 40KH STEEL 67-05 M17-69013
REFRACTORY MILLING WITH DIAMONDS 67-06 M05-70705
INVESTIGATION OF THE ELECTROLYTIC VERTICAL PLANE GRINDING OF CARBIDE TOOLS 67-06 M08-70451
DIAMOND TOOLS IMPROVE HONING 67-06 M08-70844
PLUNGE CUT GRINDING OF TUNGSTEN CARBIDE WITH DIAMOND CUP WHEELS 67-06 M08-71184
DIAMOND WHEELS PLUS ULTRASONICS CUT CERAMICS FASTER 67-06 M08-71340
NEW METHODS OF DRILLING DIAMOND WIRE DRAWING DIES--ULTRASONIC AND LASER 67-07 M08-72884
NEW HORIZONS FOR DIAMOND HONING 67-07 M08-74219
QUALITY OF THE SURFACE LAYER WHEN GRINDING WITH A DIAMOND WHEEL WITH A BAKELITE BINDER 67-07 M08-74287
SINGLE-LAYER WHEEL CUTS CARBIDE 67-07 M08-74295
DIAMOND GRINDING WHEELS 67-08 M08-75836
GRINDABILITY OF CERMETS WITH DIAMOND WHEELS 67-09 M08-76445
NEW POSSIBILITIES IN HONING WITH DIAMOND TOOLS 67-09 M08-77020
EVALUATING DIAMOND GRINDING WHEELS FOR DRY GRINDING PURPOSES 67-09 M08-77021
DIAMONDS BROADEN ULTRASONIC MACHINING 67-09 M08-77028
STUDY ON HONING. PT. 3. DIAMOND HONING OF CAST IRON 67-10 M08-78850
DIAMOND HONING 67-10 M08-79186
HONING WITH DIAMONDS 67-10 M08-79187

DIAMOND TURNING FOR BIG SAVINGS ON LARGE ALUMINUM PARTS 67-10 M08-79201
AN EVALUATION OF THE ELECTROLYTIC GRINDING OF TUNGSTEN CARBIDE. PT. 2 67-10 M08-79402
HONING WITH DIAMONDS 67-10 M08-80032
THE GRAPHITIZATION OF DIAMONDS IN THE PRODUCTION OF DIAMOND TOOLS 67-10 M09-78789
NEW TECHNIQUE FOR PREPARING UO2 THIN FOILS FOR ELECTRON MICROSCOPY 67-12 M13-82804

DIAMOND TOOLS, COATING
REFINEMENTS BOOST DIAMOND TECHNOLOGY 67-05 M20-69151

DIAMOND TOOLS, EFFICIENCY
CHANGES IN ATTITUDES--MACHINES--TOOLS IMPROVE DIAMOND GRINDING PRODUCTIVITY 67-07 M08-73690

DIAMOND TOOLS, FORMING
DIAMOND TOOLS ARE TRADITIONAL FOR MACHINING ALUMINIUM ALLOY ENGINE PISTONS 67-05 M08-68803

DIAMOND TOOLS, MACHINING
DIAMONDS IN METAL PROCESSING 67-09 M08-76674
NEW METHODS OF DRILLING DIAMOND DIES--ULTRASONICS AND LASER BEAMS 67-10 M08-78571

DIAMOND TOOLS, MATERIALS
SCIENTIFIC DATA ON THE USE OF DIAMONDS IN TECHNIQUES. PT. 1 67-11 M08-80514
AN AMERICAN COMPANY CUTS COSTS BY MACHINING URANIUM CARBIDE DRY 67-11 M08-80515
DIAMOND TOOLS CUT GIANTS DOWN TO SIZE 67-11 M08-80516

DIAMOND TOOLS, MECHANICAL PROPERTIES
POSSIBLE APPLICATIONS FOR HIGHLY WEAR-RESISTANT CUTTING MATERIALS 67-02 M17-59617

DIAMOND TOOLS, WEAR
HONING WITH DIAMOND TOOLS 67-08 M08-74757
THE COMPARATIVE WEAR RESISTANCE AND LIFE OF DIAMOND TURNING TOOLS IN MACHINING HARD CARBON 67-09 M17-78285

DIAMONDS
INCREASED PRODUCTIVITY THROUGH THE USE OF ARMORED DIAMONDS 67-07 M08-73076

DIAMONDS, ABRASIVES
DIAMOND BELTS GRIND CARBIDES, EXOTICS 67-04 M08-68149

DIAMONDS, BAND THEORY
NEW STUDIES OF THE BAND STRUCTURE OF THE DIAMOND-TYPE CRYSTALS 67-04 M16-66739

DIAMONDS, COATING
AN ANALYSIS OF THE COATED DIAMOND/BOND SYSTEM 67-03 M08-65171

DIAMONDS, COATINGS
PLATING METAL PARTS WITH MANUFACTURED DIAMONDS 67-04 M12-67794

DIAMONDS, DRILLING
DRILLING OF DIAMONDS USING ELECTRON BEAMS 67-10 M08-78867

DIAMONDS, MACHINING
NEW METHODS OF DRILLING DIAMOND WIRE DRAWING DIES--ULTRASONIC AND LASER 67-07 M08-72884
THERMAL ELECTRON BEAM MACHINING OF DIAMOND AND ALUMINA CERAMICS 67-10 M08-79507

DIAMONDS, MECHANICAL PROPERTIES
THE EFFECT OF NEUTRON IRRADIATION ON SOME MECHANICAL PROPERTIES OF DIAMOND. PT. 2. THE POLISHING OF DIAMOND 67-07 M16-73831

DIAMONDS, MICROSTRUCTURE
BIREFRINGENCE, X-RAY TOPOGRAPHY AND ELECTRON MICROSCOPE EXAMINATION OF THE PLASTIC DEFORMATION OF DIAMOND 67-05 M14-68753

DIAMONDS, SURFACE PROPERTIES
THE ADSORPTION OF CARBON DIOXIDE ON CARBON SOLIDS. PT. 1. GRAPHITE AND DIAMOND AT 0 K 67-05 M15-69597

DIAMONDS, X RAY ANALYSIS
A MULTIPURPOSE NEUTRON DIFFRACTION APPARATUS 67-04 M13-67224

DICHROISM
FREE CARRIER ELECTRO-OPTICAL KERR EFFECT IN SEMICONDUCTORS 67-05 M16-69794

DICHROMATES
SEE CHROMATES

DIE BLANKING
SEE BLANKING

DIE CASTING
ACURAD--THE GM WAY OF DIECASTING 67-01 M06-57229
DIE CASTING AND AUTOMATION 67-01 M06-57239
DIE EROSION IN PRESSURE DIE CASTING 67-01 M06-58231
BREAKTHROUGH FOR QUALITY DIE CASTERS--ACURAD 67-01 M06-58476
DESIGNING WITH ALUMINIUM 67-01 M06-58665
DIE CASTING FERROUS METALS 67-01 M06-58731
STUDY ON ALUMINUM ALLOYS USED FOR DIECASTING 67-01 M17-57617
A VISIT TO CHRYSLER CASTING PLANT 67-02 M06-59483
THE ACURAD STORY 67-02 M06-59497
IMPORTANCE OF SHOT CONTROL IN COLD CHAMBER DIE CASTING 67-02 M06-59498
MAGNESIUM PRESSURE DIE CAST PARTS IN MOTOR VEHICLES 67-02 M06-59725
AUTOMATIC TEMPERATURE REGULATION IN HOLDING FURNACES FOR DIE CASTING OPERATIONS 67-02 M06-60505
FILLING OF THIN SECTIONS CAST IN METAL DIES 67-02 M06-60525
DIE CASTING OF METALS, INJECTION MOLDING OF ORGANIC MATERIALS 67-02 M06-60611
HYDROALIUM ALLOY FOR DIE-CASTING USE 67-02 M06-60945
COLD CHAMBER DIE CASTING MACHINES GET AUTOMATIC METAL POURING 67-02 M06-61091
NEW DIMENSIONS IN ALUMINIUM DIE CASTING 67-02 M06-61847
AUTOMATED SYSTEM FOR LOW-PRESSURE DIE-CASTING 67-02 M06-61848
FERROUS DIE CASTING ON THE WAY 67-02 M06-61860
ANNUAL REVIEW OF DIE CASTING --3RD CONTINUATION--, PT. 2. MELTING, CASTING, TECHNOLOGY 67-03 M06-65206
FERROUS METAL DIE CASTING PROVED FEASIBLE IN GE LABORATORY 67-03 M06-65469
DIE MATERIALS PACE CASTING PROGRESS 67-03 M06-65491
THE GATING OF DIECASTINGS 67-03 M06-65682
ZINC ALLOYS FOR DIECASTING 67-03 M06-65683
GMS WAY TO DENSER DIECASTINGS 67-03 M06-65684
THERMAL CONDITIONS AND CAVITY FILL IN ALUMINUM DIE CASTING 67-04 M06-66148
MELTING AND HANDLING ZINC AND ALUMINUM ALLOYS IN JAPANESE DIE-CASTING PLANTS 67-04 M06-66282
SOLIDIFICATION OF A CASTING IN PRESSURE DIE CASTING 67-04 M06-66420
GATING IN DIE CASTING 67-04 M06-66637
MOLYBDENUM DIES FOR THE PRESSURE DIECASTING OF STEEL 67-04 M06-67950
TRENDS IN DIECASTING 67-04 M06-68114
WHAT IS THE OUTLOOK FOR DIE CASTING FERROUS METALS 67-05 M06-68414
THE FUNDAMENTALS OF THE DIE CASTING OF MG 67-05 M06-68599
THE USE OF INDUSTRIAL ROBOTS IN THE DIE CASTING INDUSTRY 67-05 M06-69355
A PRACTICAL-SCIENTIFIC LOOK AT DIE CASTING 67-05 M06-69524
THERMAL CONDITIONS AND CAVITY FILL IN ALUMINUM DIE CASTING 67-05 M06-69525
PUSH-BUTTON GRAVITY DIECASTING 67-05 M06-69795
ALUMINUM ENGINE TECHNOLOGY--WHERE IS IT NOW 67-05 M20-68468
GATING AND FEEDING TECHNIQUES IN PRESSURE DIECASTING 67-06 M06-70048
THERMAL MOLD PROBLEMS IN DIE CASTING 67-06 M06-71092
AUTOMATIC METAL TRANSPORT TO AL DIECASTING MACHINES 67-06 M06-71095
EFFICIENT MELTING AND CASTING METHODS IN THE MASS PRODUCTION OF LIGHT-METAL CASTINGS 67-06 M06-71190
CAST DIES FOR FORGING AND DIECASTING 67-06 M06-71579
NEW TECHNIQUES FOR PRECISION DIE CASTING 67-07 M06-72800
AUTOMATIC POURING FURNACE FOR DIECASTING 67-07 M06-72819
CAST ALUMINUM MOTORS WEIGH LESS, LOOK BETTER, LAST LONGER 67-07 M06-72820
FUSIBLE CORES FOR PRESSURE DIECASTINGS 67-07 M06-73042
HIGH-PRESSURE DIE CAST REAR SUSPENSION ARMS 67-07 M06-73089
RADAR WAVE GUIDES 67-07 M06-73335
MAGNESIUM DIE CAST COMPONENTS IN OFFICE MACHINES 67-07 M06-74001
FERROUS DIE CASTING SHOWS GREAT PROMISE FOR MASS PRODUCED PARTS 67-07 M06-74095

DIE CASTING

CENTRAL AND SIDE GATING SYSTEMS FOR PRESSURE DIE CASTING 67-08 M06-74796
PRESSURE DIE CASTING AT THE WORKS OF SINGER MANUFACTURING CO 67-08 M06-74797
FILLABILITY OF MOLDS AND DENSITY OF PLATE-TYPE CASTINGS IN CASTING ALUMINUM ALLOYS UNDER LOW PRESSURE 67-08 M06-75192
OPTIMUM CHEMICAL COMPOSITION OF SILICON BRASS FOR DIE CASTING 67-08 M06-75197
NEW DEVELOPMENTS IN FERROUS DIE CASTING 67-08 M06-75490
MELTING TREATMENT IN THE GRAVITY DIECASTING FOUNDRY 67-08 M06-75640
CONTROLLING DIE TEMPERATURES IN PRESSURE DIECASTING 67-08 M19-74553
AUTOMOTIVE APPLICATIONS OUTSIDE THE ENGINE 67-08 M20-74828
PRODUCING INBOARD OUTBOARD DRIVE UNITS AT JOHNSON MOTORS 67-09 M06-76401
OUTBOARD MOTOR DIE CASTINGS DESIGNED AND PURCHASED BY CHRYSLER 67-09 M06-76402
ZINC DIE CASTING IN THE MARINE FIELD 67-09 M06-76403
SYSTEMS FOR THERMAL BALANCING OF MOLDS IN DIE CASTING SHOPS. DESIGN AND REGULATION 67-09 M06-77669
DIECASTING AS A PRODUCTION PROCESS 67-09 M06-77796
A NEW APPROACH TO DIECASTING DIE LUBRICATION 67-09 M06-77798
DIE CAST PLUMB BOBS ARE ACCURATE AND GOOD LOOKING 67-09 M06-78171
SPRUE AND RUNNER DESIGN 67-10 M06-78584
ELECTRICAL, ELECTRONIC COMPONENTS CONNECTED BY DIE CASTING 67-10 M06-78627
ZINC AND ALUMINUM DIE CASTING AT GMS NEW ROCHESTER PRODUCTS DIVISION PLANT 67-10 M06-78701
A NEW AUTOMATIC HOT CHAMBER PRESSURE DIE CASTING MACHINE 67-10 M06-78784
CASTING TIME IN PRESSURE DIE CASTING 67-10 M06-78785
AUTOMATIC COLD CHAMBER PRESSURE DIE CASTING MACHINE 67-10 M06-78786
THE PRESSURE DIE CASTING OF IRONS AND STEELS 67-10 M06-79293
SHAW CAST DIES AND ELECTRIC DISCHARGE MACHINING 67-10 M06-79522
RELATIONSHIPS BETWEEN DIE DESIGN AND CASTINGS QUALITY 67-10 M06-79679
THERMAL ANALYSIS OF DIE CASTING DIES 67-10 M06-79750
GATING TECHNOLOGY IN THE DIE CASTING OF BRASS 67-10 M06-79976
LIGHT METAL PRESSURE DIE CASTINGS IN EUROPEAN MOTOR VEHICLES 67-10 M20-78783
DIE CAST AND WROUGHT ZINC, PT. 1 67-11 M01-80199
PRESSURE CASTING WITH CORED INSERTS--SEVERAL EXAMPLES FROM PRACTICE 67-12 M06-81754
LOW PRESSURE FOR QUALITY DIE CASTINGS 67-12 M06-81925
THERMAL INTERACTIONS BETWEEN CASTING AND DIE 67-12 M06-81954
MACHINES FOR PRESSURE DIE CASTING SMALL PIECES 67-12 M06-81981
MEASUREMENT OF DIE CASTING MACHINE VARIABLES 67-12 M06-82021
ROBOTS PRODUCE DIE CASTINGS 67-12 M06-82710
PRESSURE DIE CASTING AND THE MANIFOLD PROBLEM 67-12 M06-82901
INLET AND GATING CALCULATIONS FOR PRESSURE-CASTING DIES 67-12 M06-82920
ANNUAL DIE CASTING REVIEW. PT. 1. PROPERTIES AND MATERIALS 67-12 M06-82940
APPLICATION OF HIGH-FREQUENCY VIBRATIONS IN THE PRODUCTION OF PRESSURE DIE CASTINGS AND STRIPPING OF CORES 67-12 M06-83382
DIE CASTINGS SOLVE PRODUCT DESIGN PROBLEMS 67-12 M20-82709

DIE CASTING, AUTOMATION
NEW BUHLER 160-D MACHINES WITH DIRECT INJECTION SYSTEM 67-10 M06-78585
DIECASTING AUTOMATION FOR A CUSTOM SHOP 67-12 M06-81957
AUTOMATIC DIECASTING 67-12 M06-82656

DIE CASTING, IMPREGNATION
THE IMPREGNATION OF DIE CASTINGS 67-06 M06-70043

DIE CASTING DIES
FERROUS METAL DIE CASTING PROVED FEASIBLE IN GE LABORATORY 67-03 M06-65469
DIE MATERIALS PACE CASTING PROGRESS 67-03 M06-65491
INNOVATIONS IN DIE CASTING DIE STEELS 67-03 M20-65402
PRACTICAL DIE DESIGN CONSIDERATIONS 67-04 M06-66147
GRAPHITE MOLDS IN THE CONTINUOUS CASTING OF NONFERROUS METALS 67-05 M03-68925
DEVELOPMENTS IN LOW PRESSURE DIE CASTING 67-05 M06-68505
JAPANESE DEVELOPMENT IN HORIZONTAL CONTINUOUS CASTING OF COPPER ALLOYS 67-06 M03-71578
HEAT EXTRACTION BY METALLIC MOLDS DURING SOLIDIFICATION OF SIMPLE SHAPED ALUMINUM AND ITS ALLOY CASTINGS 67-06 M08-70675
RADAR WAVE GUIDES 67-07 M06-73335
FERROUS DIE CASTING SHOWS GREAT PROMISE FOR MASS PRODUCED PARTS 67-07 M06-74095
MACHINING MOLY DIECASTING DIES 67-07 M08-73857
DIE MATERIALS LEAD TO DIE CASTING PROGRESS 67-10 M06-78577
THERMAL ANALYSIS OF DIE CASTING DIES 67-10 M06-79750
STEEL IN THE DIECAST INDUSTRY 67-10 M20-79312
ANNUAL DIE CASTING REVIEW. PT. 1. PROPERTIES AND MATERIALS 67-12 M06-82940

DIE CASTING DIES, DESIGN
UNIT FORMS FOR ZINC DIE CASTING 67-03 M06-65192
DIECASTING ASSEMBLIES 67-11 M06-81244

DIE CASTING DIES, HEAT TRANSFER
THERMAL MOLD PROBLEMS IN DIE CASTING 67-06 M06-71092

DIE CASTING DIES, HEAT TREATMENT
HEAT TREATMENT OF 5 PER CENT CHROMIUM STEEL DIE CASTING DIES 67-02 M10-59095
LOW-TEMPERATURE GAS CYANIDING OF STEELS FOR MOLDS 67-04 M10-67966
THE HEAT AND SURFACE TREATMENT OF STEEL FOR CASTING DIES 67-05 M10-69356

DIE CASTING DIES, LUBRICATION
THE LABORATORY TESTING OF MOLD RELEASE AGENTS 67-06 M06-71093

DIE CASTING DIES, MACHINING
4 1/2 REASONS TO CONSIDER VACUUM DIELECTRIC FLOW 67-02 M08-61101
GALVANIC ELECTRODES FINISH LARGE CAST-TO-SIZE DIES 67-06 M08-70005
GUN DRILLING LOWERS COST OF MACHINING DIE CAST DIES 67-06 M08-71589
DIEMAKING ACQUIRES A NEW LOOK WITH EDM 67-12 M08-82803

DIE CASTING DIES, MATERIALS
JESSOP-SAVILLE H.50 --NON-DEFORMING TOOL STEEL-- 67-04 M01-68069

DIE CASTING DIES, MECHANICAL PROPERTIES
LIFE TESTING HOT WORK DIE STEELS 67-12 M19-82702

DIE CASTING DIES, METAL WORKING
NEW LEVELING PRESS FOR DIE-CASTING DIES 67-11 M18-80386

DIE CASTING DIES, THERMAL PROPERTIES
THE THERMAL FATIGUE OF DIE-CASTING DIES 67-08 M17-75749

DIE CASTINGS
OPERATING EXPERIENCE WITH DIE-CASTING IN THE AUTOMOTIVE INDUSTRY 67-06 M06-71098
COMMERCIAL JETS--THE BIG SWITCH TO PRECISION FORMED PARTS 67-09 M20-77180

DIE CASTINGS, BLISTERING
STUDIES OF THE BLISTERS ON THE PLATED SURFACE OF ZINC ALLOY DIE CASTINGS 67-08 M18-74923

DIE CASTINGS, BONDING
ADHESIVE BONDING DIE CASTINGS 67-02 M11-60994
ADHESIVES JOIN CURVED PARTS 67-04 M11-66382

DIE CASTINGS, CHEMICAL ANALYSIS
QUANTITATIVE DETERMINATION OF ACID-INSOLUBLE ALUMINUM OXIDE AND OTHER INCLUSIONS IN ALUMINUM CASTING ALLOYS 67-04 M19-66149
GASES IN ALUMINUM ALLOY DIE-CASTINGS 67-12 M06-81905

DIE CASTINGS, CLEANING
GLASS BEAD FINISHING OF DIE CASTINGS 67-10 M12-78464

DIE CASTINGS, COATING
NO TIME FOR REWORK 67-02 M12-59036

DECORATIVE PLATING IN THE GERMAN MOTORCAR INDUSTRY 67-03 M12-65150
CHROME-PLATED DIE CAST ZN PARTS IN THE AMERICAN AUTOMOTIVE INDUSTRY 67-06 M12-70039
PREPARATION CAN LOWER COST OF PLATING ZINC DIE CASTINGS 67-08 M12-74494
A MORE UNIFORM, MORE ADHERENT PLATE ON ZINC 67-09 M12-78173
CHROME-PLATED ZN DIE CASTINGS FOR THE U. S. AUTOMOTIVE INDUSTRY 67-10 M12-79885
MICROCRACKED CHROMIUM PLATE IMPROVES CORROSION RESISTANCE 67-10 M18-78576
SOME GOOD TIPS FOR PLATING STEEL, BRASS AND DIE CASTINGS 67-12 M12-81933
DUPLEX NICKEL PLATING SYSTEM WITH IMPROVED LEVELLING PROPERTIES 67-12 M12-81955

DIE CASTINGS, CYLINDERS
METAL MELT-OUT CORES IN DIE CASTING 67-01 M06-57320

DIE CASTINGS, DESIGN
SAND CASTINGS AND GRAVITY DIE CASTINGS RE-DESIGNED FOR PRESSURE CASTING 67-06 M06-70801

DIE CASTINGS, MACHINING
DIAMOND TOOLS ARE TRADITIONAL FOR MACHINING ALUMINIUM ALLOY ENGINE PISTONS 67-05 M08-68803
MACHINING LIGHTWEIGHT DIE CASTINGS ON A DIAL MACHINE 67-06 M08-69956
MACHINING MAGNESIUM DIE CASTINGS 67-12 M08-82704

DIE CASTINGS, MECHANICAL PROPERTIES
ON THE TURNING AND THE DRILLING OF LOW-PRESSURE DIE CASTINGS 67-02 M08-61028

DIE CASTINGS, MICROSTRUCTURE
INCLUSION-LIKE, EUTECTIC RICH, STRUCTURAL INHOMOGENEITIES IN HYPOEUTECTIC PRESSURE DIE CASTING 67-02 M14-59732

DIE CASTINGS, NONDESTRUCTIVE TESTING
MECHANIZED FLAW DETECTION--CHECKS VITAL CAR COMPONENTS 67-06 M19-71203
X-RAY AND FLUORESCENT PENETRANT INSPECTION FOR DIE-CAST CAR COMPONENT 67-07 M19-72811
SPRINGENT INSPECTION OF PRESSURE DIECASTING 67-09 M19-77203

DIE CASTINGS, PHYSICAL PROPERTIES
EFFECT OF OVERFLOW WELLS, GATING AND INJECTION PARAMETERS ON THE POROSITY OF A DIE CASTING 67-04 M06-67702
ASARCO Z. D. C. NO. 7. --ZINC DIE CASTING ALLOY-- 67-09 M01-76525

DIE CASTINGS, SURFACE FINISHING
THE BUFFING OF ZINC DIE CASTINGS WITH LIQUID COMPOUND 67-04 M12-68112
SATIN FINISHES FOR DIE CASTINGS NOW STANDARDIZED 67-04 M12-68134
PRESS TRIMMING DIECASTINGS 67-05 M08-69796

DIE CASTINGS, TRIMMING
TRIMMING AT THE DIECASTING MACHINE AND A NEW DEVICE FOR HANDLING REMOVAL OF CASTINGS 67-06 M06-71096
DIECASTING INSTALLATIONS IN CONNECTION WITH AN INTERCONNECTED AUTOMATIC TRIMMING MACHINE AND TRANSPORT FACILITY 67-06 M06-71097

DIE CAVITIES
HOW METAL FLOWS IN A DIE 67-08 M07-75924

DIE DRAWING
MEASUREMENT OF TENSION IN FINE WIRE DRAWING 67-02 M07-59008
FIVE-LINE TRANSFER PRESS MAKES 300 CANS A MINUTE 67-02 M08-59032
DRAWING THICK ALUMINUM SHELL 67-03 M07-65038
GRAPHICAL COMPARISON OF DIFFERENT METHODS FOR CALCULATING THE DRAWING FORCE. PT. 2 67-06 M07-71413
INFLUENCE OF ADDITION ELEMENTS AND SPECIAL TREATMENTS ON THE ANISOTROPY AND DRAWABILITY OF EXTRA-SOFT RIMMING STEELS 67-06 M07-72018
DRAWING FINE BERYLLIUM WIRE 67-07 M07-73766
MEASUREMENTS OF PRESSURE DISTRIBUTION IN THE DRAWING OF TUBES AND BARS 67-11 M07-81375

DIE FORGING
SEE ALSO CLOSED DIE FORGING
OPEN DIE FORGING
FORGING OF SHOULDERED ROUND PARTS USING A PRECISION FORGING MACHINE. CURRENT STATUS OF DEVELOPMENT AND APPLICATIONS 67-01 M07-58714
PRODUCING RING FORGINGS 67-02 M07-59827
THE CALCULATION OF FORCES REQUIRED FOR DIE FORGING ON CRANK PRESSES AND OF RAM WEIGHTS IN FORGING 67-02 M07-60021
PLASTIC WORKING OF METALS WITH SEPARATE ZONES OF DIFFICULT DEFORMATION 67-02 M07-60064
FORGING AHEAD WITH METAL FLOW 67-02 M07-60932
FORGING TODAY 67-03 M07-65944
LOW-FLASH FORGING 67-04 M07-66285
INTRODUCING NEW DIE STEELS 67-04 M08-67037
EVALUATING THE EFFECTIVENESS OF LUBRICATION IN UPSETTING ON MECHANICAL PRESSES 67-04 M08-67041
STUDY GIVES GREEN LIGHT TO SWING FORGE AT ROBLIN 67-05 M07-68445
NEW DEVELOPMENTS IN DIE FORGING 67-05 M07-69144
STAMPING OF BALL JOINTS 67-07 M07-73443
REDUCING SHAFT BILLETS IN A SPECIAL DIE 67-08 M07-75483
DIE FORGINGS WITH RADIAL APERTURES 67-08 M08-75763
STAMPING OF VALVES WITH THE HOLLOW FOR A FILLER 67-10 M07-78545
EXPERIMENTAL STAMPING OF ROTARY-TYPE TOOTHED DRILL BITS 67-10 M07-78547
FORGING METALLURGY--TITANIUM. PT. 2. FORGING METHODS AND EQUIPMENT 67-10 M07-79778
THE INFLUENCE OF FORGING CONDITIONS IN DIE FORGING PRACTICE ON THE MECHANICAL PROPERTIES OF TITANIUM-ALLOY DIE FORGINGS 67-10 M07-79956
CEMERON COMMISSIONS SCOTTISH FORGING PLANT 67-11 M07-80673
A NEW INTEGRATED FORGING FACILITY IN SCOTLAND 67-11 M07-80674
HOT DIE FORGING STUDY AIMED AT HIKING TITANIUM POTENTIAL 67-11 M07-80768
HOT DIE FORGING STUDY AIMED AT HIKING TITANIUM POTENTIAL 67-12 M07-81851
STUDY OF THE MULTIOPERATIONAL CLOSED IMPRESSION DIE FORGING PROCESS 67-12 M07-82063
LIGHT METALS HEAVY PRESS FORGINGS 67-12 M07-82274
AN EXPERIMENT IN PRODUCING CYLINDRICAL GEAR FORGINGS WITH FINISHED TEETH ON HIGH-SPEED EQUIPMENT 67-12 M08-82062

DIE FORGING, AUTOMATION
THE AUTOMATION OF DIE FORGING 67-10 M07-78640

DIE FORGINGS
WALL PRESSURE WHEN FORGING AND FILLING OUT CORNERS IN CLOSED DIES 67-01 M07-57241

DIE FORGINGS, LUBRICATION
BETTER FORGING LUBRICANTS DOUBLE THE LONGEVITY OF DIES 67-02 M07-59148

DIE FORGINGS, MECHANICAL PROPERTIES
EFFECTS OF STRETCHING AND UPSETTING ON THE MECHANICAL PROPERTIES OF OPEN-DIE FORGINGS 67-02 M07-62098

DIE FORMING
SEE ALSO CLOSED DIE FORMING
IMPACT FORMING
OPEN DIE FORMING
CALCULATION OF SPRINGBACK IN SHEET METAL DURING FLANGING USING RUBBER TO APPLY THE PRESSURE 67-02 M08-59884
HEMISPHERE FORMING SMOOTHER VIA FLUID METHOD 67-05 M07-68802
TOOLING FOR ACCURATE EXTRUSION BENDING 67-07 M07-72797
ATMOSPHERIC PRESSURE FORMS TITANIUM PANELS 67-07 M08-72987
CALCULATING THE FORCES FOR STAMPING THE CENTER PART OF A BOTTOM USING A SPHERICAL PUNCH AND DIE 67-08 M08-75486
STAMPING OF LIQUID STEEL 67-09 M08-76409
URETHANE ELASTIC DIE FORMING 67-09 M08-77804

DIE MAKING
CASTING HOT-SIZING DIES FOR TITANIUM 67-03 M06-65767
AUTO DIES BY COMPUTER 67-03 M08-65943
PRACTICAL DIE DESIGN CONSIDERATIONS 67-04 M06-66147
INFLUENCE OF THE PRESSURE ON STRUCTURE AND PROPERTIES OF CAST DIE STEEL, 5KHNT 67-04 M06-67504
BETTER STEEL-RULE DIE PERFORMANCE 67-04 M07-66383
SMALL STAMPINGS GET SMALLER, MORE COMPLEX, MORE PRECISE 67-06 M07-70497
USE OF PRE-FINISHED DECARB-FREE FLATS 67-06 M07-70594
LARGE AUTOMOTIVE STAMPING DIES 67-06 M08-71451

DIE MAKING
EDM THRU-HOLE APPLICATIONS 67-06 M08-71485
SPARK-ERODING ACCURATE DIES 67-06 M08-71801
FASTER FINISHING OF TUNGSTEN CARBIDE DIES 67-07 M12-74168
NEW USES FOR MACHINABLE CARBIDES 67-10 M08-79777
THE PRECISION WORKING OF CARBIDE CUTTING TOOLS BY ELECTROEROSION 67-10 M08-79955
PRACTICAL DIE DESIGN CONSIDERATIONS 67-11 M08-80385
HIGH-ENERGY RATE FORMING OF DIE CAVITIES 67-11 M08-80566
THE HOBBING OF FORGING DIES 67-11 M08-80843
DIE SINKING
PRACTICAL DIE DESIGN CONSIDERATIONS 67-04 M06-66147
BETTER STEEL-RULE DIE PERFORMANCE 67-04 M07-66383
MAKING CAST INSERTS HAVING DIE IMPRESSIONS FORMED BY PRECISION CASTING 67-05 M06-69187
EDM ON AN OLD PLANER 67-06 M08-71491
DIE STAMPING
SMOOTH-EDGE BLANKING FOR ACCURATE STAMPINGS 67-06 M08-69955
STAMPING OF WRIST WATCH CASINGS 67-07 M07-73441
CLOSED DIES WITH A SLIDING BLOCK FOR REDUCING BILLETS 67-08 M08-75485
DIE STEELS
THERMOLD-Z --ZINC DIE CASTING AND PLASTIC MOLD STEEL, TYPE P20-- 67-02 M01-59493
CHROMIUM-MOLYBDENUM-VANADIUM TOOL STEEL FOR WORK AT HIGH TEMPERATURES 67-02 M20-59000
ECONOMY DIES SPEED PRODUCT DEVELOPMENT AND PRODUCTION 67-02 M20-60244
INVESTIGATION AND SELECTION OF THE OPTIMUM COMPOSITION OF HIGH-STRENGTH DIE STEELS 67-04 M17-66368
HEAT TREATMENT AND MECHANICAL PROPERTIES OF DIE STEELS 67-04 M17-66369
CHOOSING A STEEL FOR A DIE-BLOCK 67-05 M20-69188
DIE STEELS, CASTING
CAST DIES FOR AUTO FORGINGS 67-01 M06-58725
CAST DIES FOR CAR PART FORGINGS 67-03 M06-65675
HERFING IN A PRECISION CAST DIE 67-03 M20-65112
USE OF INTERNAL COOLERS IN PRODUCTION OF STEEL CASTINGS 67-04 M06-67502
INFLUENCE OF THE PRESSURE ON STRUCTURE AND PROPERTIES OF CAST DIE STEEL, 5KHNT 67-04 M06-67504
DIE STEELS, COATING
DETERMINATION OF THE DIMENSIONS OF HARDFACING FOR THE EDGE OF A HOT TRIMMING DIE 67-04 M12-66467
DIE STEELS, DIE CASTING DIES
INNOVATIONS IN DIE CASTING DIE STEELS 67-03 M20-65402
DIE STEELS, DIES
HOT WORK DIE STEELS FOR CLOSED IMPRESSION FORGING. PT. 3. USE AND CARE OF DIE STEELS 67-09 M06-77186
DIE STEELS, FORGING
INTRODUCING NEW DIE STEELS 67-04 M08-67037
DIE STEELS, HEAT TREATMENT
HEAT TREATMENT OF 5 PER CENT CHROMIUM STEEL DIE CASTING DIES 67-02 M10-59095
IMPROVING THE QUALITY OF HEAT TREATMENT OF HOT FORMING DIES 67-02 M10-59404
HEAT TREATING BUILT-UP STAMPS 67-03 M10-65059
KAYSER ELLISON INAUGURATES BUTANE-FIRED HEAT TREATMENT PLANT 67-04 M10-66407
LOW-TEMPERATURE GAS CYANIDING OF STEELS FOR MOLDS 67-04 M10-67966
NEW HEAT TREATMENT DEPARTMENT AND WAREHOUSE FOR KAYSER ELLISON & CO. LTD 67-06 M10-71298
HEAT TREATMENT OF HARDFACED DIES 67-07 M10-73976
STEELS FOR HOT FORGING TOOLS 67-12 M07-82080
IMPROVING THE STABILITY OF DIES BY PRELIMINARY NITRIDING 67-12 M10-81796
DIE STEELS, MACHINING
THE QUESTION OF THE LIFE OF GRINDING WHEELS 67-03 M08-65726
EDM ELECTRODE MATERIALS AND ELECTRODE MATERIAL EVALUATION 67-04 M08-66354
AN INVESTIGATION OF THE VARIABLES INFLUENCING SEMI-FINISH MACHINING BY EDM 67-04 M08-66355
EFFECT OF EDM ON THE SURFACE PROPERTIES OF TOOL AND DIE STEELS 67-05 M08-69450
THREAD-FORMING BY NONCUTTING OR SCRAPLESS DEFORMATION. PT. 2 67-06 M08-70556
DIELECTRICS, ELECTRODES--THEIR EFFECT ON EDM MACHINING 67-06 M08-71448
SPARK-ERODING ACCURATE DIES 67-06 M08-71801
PERFORMANCE TEST FOR SURFACE GRINDING WHEELS. PT. 3. GRINDING OF STAINLESS STEELS 67-08 M08-75591
WEAR AND WEAR DISTRIBUTION IN SPARK EROSION 67-10 M08-79495
EDM FINISHES AND POLISHING FOR MOLDING APPLICATIONS 67-10 M08-79517
DIE STEELS, MECHANICAL PROPERTIES
THE EFFECT OF COOLING RATES DURING HARDENING ON THE TOUGHNESS OF HOT WORK TOOL STEELS 67-01 M17-58337
INFLUENCE OF HEAT TREATMENT ON LIFE OF SHKH15 CR MARKERS 67-02 M17-59775
DIE STEEL 67-04 M17-66404
EVALUATION OF THE BEHAVIOR OF STEELS AND ALLOYS DURING HOT DEFORMATION WITH THE AID OF HOT TORSION SPECIMENS 67-04 M17-67202
EFFECT OF PLASTIC STRENGTHENING ON THE HEAT RESISTANCE OF 3KH2V8 DIE STEEL 67-05 M17-68447
DIE STEEL 67-05 M17-69243
PRESSURDIE-1 67-06 M01-71156
AISI 5160 --HIGH STRENGTH MACHINERY STEEL-- 67-06 M01-71452
HEPPENSTALL GR. C57 --HOT WORK DIE STEEL-- 67-06 M01-71453
HOT WORK DIE STEEL FOR CLOSED IMPRESSION FORGING. PT. 2. PHYSICAL PROPERTY REQUIREMENTS OF DIE STEELS 67-08 M07-75492
EFFECT OF THERMAL CYCLING ON RESIDUAL STRESSES IN DIE STEEL 67-08 M17-75482
INFLUENCE OF HEAT TREATMENT ON THE STRENGTH OF SHKH15 STEEL STAMPS 67-08 M17-76132
THE WEAR BEHAVIOR OF HEAT TREATABLE FORGING DIE STEELS 67-09 M17-78191
RESEARCH INTO THE EROSION-RESISTANCE, HARDENABILITY AND HEAT RESISTANCE OF 4KH5V2FS AND 3KH2V8 STEELS 67-10 M17-78979
STEEL IN THE DIECAST INDUSTRY 67-10 M20-79312
INVESTIGATION AND SELECTION OF THE OPTIMUM PROPERTIES OF HIGH-STRENGTH DIE STEELS 67-11 M17-80970
HEAT TREATMENT AND MECHANICAL PROPERTIES OF DIE STEELS 67-11 M17-80971
ATTEMPTS TO MINIMIZE HOT EMBRITTLEMENT IN CR-W HOT FORMING TOOL STEELS 67-11 M17-81380
MODERN MANUFACTURE OF DIE BLOCKS FOR THE METAL-FORMING INDUSTRIES 67-12 M01-81948
STUDY OF THE STRUCTURE AND PROPERTIES OF ROLLS AFTER VACUUM HOT ROLLING OF MOLYBDENUM 67-12 M07-83538
DIE STEELS, METAL WORKING
BETTER STEEL-RULE DIE PERFORMANCE 67-04 M07-66383
RAPID DIE STEEL RULE PRESS TOOLS 67-06 M08-70709
THE HOBBING OF FORGING DIES 67-11 M08-80843
DIE STEELS, MICROSTRUCTURE
THE EFFECT OF CRYSTALLINE SEGREGATIONS ON THE DEFORMATION BEHAVIOR OF ALLOY STEELS 67-04 M14-67208
DIE STEELS, ROLLING
A ROD AND BAR MILL FOR SPECIALTY STEELS 67-02 M07-60235
DIE STEELS, SPECIFICATIONS
CHOICE OF STEELS FOR MOULDS AND DIES 67-04 M17-67068
DIELECTRIC BREAKDOWN
DIELECTRIC BREAKDOWN OF ANODIC OXIDE FILMS ON VALVE METALS 67-05 M18-69843
DIELECTRIC CONSTANT
THE OPTICAL AND ELECTRICAL CONSTANTS OF BETA-RHOMBOHEDRAL BORON AND APPLICATIONS, 1965, P 133-141 67-01 M15-58413
HIGH RESISTANCE ANODIC OXIDE FILMS ON ALUMINIUM 67-02 M15-61106
THE CONTRIBUTION TO DIELECTRIC CONSTANT FROM INTERBAND TRANSITION IN METALS 67-02 M16-59061
ELECTRICAL PROPERTIES OF AL2O3-NICKEL METAL

MULTILAYER FLAME-SPRAYED COATINGS 67-03 M15-65358
OPTICAL PROPERTIES OF GERMANIUM IN THE SPECTRAL REGION 1.7 EV TO 2.1 EV 67-04 M15-66746
MAGNETO-OPTICAL MEASUREMENTS AS A SOURCE OF INFORMATION ON THE ELECTRON STRUCTURE OF FERROMAGNETIC NICKEL 67-04 M15-67911
PROPERTIES OF WO3 MODIFIED BY THE SUBSTITUTION OF MO AND CR 67-06 M15-70605
THE OPTICAL AUTOABSORPTION AND THE DIELECTRIC CONSTANT OF CADMIUM OXIDE AT HIGH ELECTRON DEGENERATION 67-06 M16-69963
THE ANISOTROPY OF THE ELECTRONIC PROPERTIES OF INTRINSIC CDSE 67-06 M16-70465
OPTICAL PROPERTIES OF GETE 67-07 M15-73296
PERMITTIVITY OF SOLID SOLUTIONS IN THE SYSTEM ZNXHG1-XTE 67-07 M16-73998
THE DIELECTRIC CONSTANT OF ZIRCONIA 67-08 M15-76253
ELECTRIC CONDUCTIVITY STUDIES OF P-GATE POLYCRYSTALS AND SINGLE CRYSTALS IN STRONG ELECTRIC FIELDS 67-08 M16-75218
UNIT-CUBE EXPRESSION FOR SPACE-CHARGE RESISTANCE 67-08 M16-75708
THE EFFECTS OF SOME VARIATIONS IN FABRICATION PROCEDURE ON THE PROPERTIES OF LEAD ZIRCONATE-TITANATE CERAMICS MADE FROM SPRAY-DRIED, CO-PRECIPITATED POWDERS 67-09 M09-76747
DIELECTRIC AND OPTICAL INVESTIGATIONS OF THE IRREVERSIBLE FERROELECTRIC PHASE TRANSITION IN CRYSTALS OF POTASSIUM 67-09 M15-76783
DIELECTRIC CONSTANTS OF PBWO4 AND CAWO4 67-09 M15-77459
EFFECT OF DIELECTRIC AND HIGH-RESISTIVITY BARRIERS ON THE SUPERCONDUCTING TRANSITION TEMPERATURE OF THIN FILMS 67-09 M16-77562
MEASUREMENTS OF CONDUCTIVITY AND PERMITTIVITY OF SEMICONDUCTORS AT MICROWAVE FREQUENCIES 67-10 M15-78724
PIEZO-OPTICAL CONSTANTS, DEFORMATION POTENTIALS, AND THE ELECTRONIC STRUCTURE OF COPPER 67-10 M15-80013
OPTICAL CONSTANTS OF GERMANIUM AND GRAY TIN, THE K.P METHOD 67-10 M16-79358
ELECTRONS, NEUTRONS AND PROTONS IN ENGINEERING 67-11 M01-81101
ENERGY OF THE DONOR GROUND STATE IN CDS, CDSE, AND ZNO 67-11 M15-80629
EVAPORATED METALLIC CONTACTS OT CONDUCTING STRONTIUM TITANATE SINGLE CRYSTALS 67-11 M15-81085
OPTICAL PROPERTIES AND BAND STRUCTUR OF TRIGONAL SELENIUM 67-11 M15-81387

DIELECTRIC PROPERTIES
SEE DIELECTRICS

DIELECTRIC STRENGTH
CERAMIC-METAL COMPOSITES 67-04 M09-66280
THE EFFECT OF ULTRASONICS ON THE PHOSPHATING PROCESS 67-05 M12-68490
ELECTRIC INSULATION PROPERTIES OF FLAME-SPRAYED REFRACTORY COATINGS 67-10 M15-79581

DIELECTRICS
PIEZOELECTRIC, ELASTIC, AND DIELECTRIC CONSTANTS OF HEXAGONAL ZINC SULFIDE 67-02 M15-61657
AN INVESTIGATION OF THE VARIABLES INFLUENCING SEMI-FINISH MACHINING BY EDM 67-04 M08-66355
SOME EXPERIMENTS IN THE REACTIVE EVAPORATION OF TANTALUM OXIDE 67-08 M14-75160
THIN-FILM HAFNIUM-HAFIUM OXIDE CAPACITORS FOR HIGH TEMPERATURE OPERATION 67-08 M14-75163
THE HEAT-TREATMENT OF ANODIC OXIDE FILMS ON TANTALUM. PT. 6. THE EFFECT OF CHEMICAL THINNING 67-09 M15-77894
A NEW MASKING TECHNIQUE FOR SEMICONDUCTOR PROCESSING 67-09 M15-77895
INTERPOLAR TRANSITIONS IN MOLYBDENUM 67-11 M15-80726
CORROSION OF ALUMINUM ALLOYS IN CONTACT WITH STEELS AND LININGS OF PETROLEUM VESSELS 67-11 M18-81284

DIELECTRICS, COATINGS
THE INFLUENCE OF DIELECTRIC FILMS ON THE SUPERCONDUCTIVITY OF THIN SN AND TL FILMS 67-09 M16-76453

DIELECTRICS, REACTIONS /CHEMICAL/
SCHOTTKY EMISSION AS A RATE-LIMITING FACTOR IN THERMAL OXIDATION OF METALS 67-03 M14-65025

DIES
SEE ALSO BLANKING DIES
DIE CASTING DIES
DRAW DIES
FORGING DIES
APPLICATION OF HOBBING TO THE MANUFACTURE OF METAL CUTTING DIES 67-01 M08-58674
DIE METHODS--DESIGN, FABRICATION, MAINTENANCE AND APPLICATION 67-02 M20-59801
HINTS FOR MODERN COLD HEADING 67-03 M08-65865
INVESTIGATION AND SELECTION OF THE OPTIMUM COMPOSITION OF HIGH-STRENGTH DIE STEELS 67-04 M17-66368
HEAT TREATMENT AND MECHANICAL PROPERTIES OF DIE STEELS 67-04 M17-66369
DEEP DRAWING THICK ALUMINIUM 67-05 M08-68934
ADJUSTABLE PERFORATING DIES 67-06 M07-70596
EFFECT OF DIE GEOMETRY ON METAL FLOW IN THE HOT EXTRUSION OF METALS 67-07 M07-72553
HIGH-STRENGTH STEEL FOR MOLDS AND DIES 67-08 M17-74970
NEW HOT SIZING DIES FORM TITANIUM PARTS TO NET DIMENSIONS AT 1450 F 67-09 M08-77568
PUNCH-TO-DIE CLEARANCES IN STEEL RULE DIES DIES--THEIR IMPORTANCE AND AUTOMATIC PROVISION 67-10 M08-79530
INVESTIGATION AND SELECTION OF THE OPTIMUM PROPERTIES OF HIGH-STRENGTH DIE STEELS 67-11 M17-80970

DIES, CASTING
PATHWAY TO PROFITABLE TOOLING THROUGH PRECISION CASTING 67-10 M06-79523

DIES, COATING
DETERMINING THE SIZE OF THE BUILT-UP EDGE OF A HOT-TRIMMING DIE 67-02 M11-59518
THE INCREASE IN WEAR RESISTANCE OF STAMPING TOOLS THROUGH SURFACE TREATMENT 67-10 M12-79501
RESULTS OBTAINED WITH STELLITE FOR BLANKING, TRIMMING, AND SHEARING TOOLS 67-11 M08-81692

DIES, COOLING
INCREASING WEAR OF FORGING PRESS DIES 67-10 M11-78549

DIES, CORROSION
SELECTIVE PLATING OF CAVITIES IN PLASTICS MOULDING DIES 67-06 M18-70710

DIES, DESIGN
DESIGN AND USE OF DIES FOR PRESSING SHAPES FROM STEEL 67-01 M08-57262
DIE DESIGN FOR DRAWING AND EXTRUSION 67-09 M08-77803

DIES, DRILLING
DRILLING OF DIAMONDS USING ELECTRON BEAMS 67-10 M08-78867

DIES, FORMING
ELECTROFORMING CHALLENGES CONVENTIONAL DIEMAKING METHODS 67-10 M12-78881

DIES, HARD SURFACING
WEAR RESISTANCE BUILDUP OF DIES FOR BRIQUETTING LIGNITE 67-08 M11-75411
RECLAMATION OF OLD AND PRODUCTION OF NEW DROP FORGING DIES BY ELECTROSLAG WELDING 67-08 M11-75412

DIES, HARDENING
USE OF INDUCTION HEATING FOR QUENCHING SWAGING DIES 67-01 M10-58089
IMPROVING THE WEAR RESISTANCE OF PUNCHES BY ULTRASONIC WORK HARDENING 67-01 M17-57334
STABILITY OF PLASTIC WORK HARDENING OF TOOL STEELS UNDER THE EFFECT OF HEAT 67-01 M17-58088

DIES, HEAT TRANSFER
INVESTIGATIONS OF THE CONDITIONS OF HEAT TRANSFER FROM BILLET TO DIE 67-02 M07-59405

DIES, HEAT TREATMENT
IMPROVING THE QUALITY OF HEAT TREATMENT OF HOT FORMING DIES 67-02 M10-59404
HEAT TREATING BUILT-UP STAMPS 67-03 M10-65059
HEAT TREATMENT OF HARDFACED DIES 67-07 M10-73976
HEAT TREATING OF FERRO-TIC C STEEL-BONDED CARBIDE 67-10 M10-79526
INCREASE IN THE WEAR RESISTANCE OF BLANKING DIES THROUGH SURFACE TREATMENT 67-12 M10-81937

DIES, INSERTS
USING INSERTS IN SHEET FORMING DIES 67-05 M20-69494

DIES, MACHINING
ELECTRODISCHARGE MACHINING 67-01 M08-58006
DIE PART OUTPUT DOUBLED WITH DE BEERS SYNTHETIC DIAMOND 67-01 M08-58787
SPARK EROSION OF PERFORATING PRESS TOOLS 67-02 M08-59999

WHERE TO USE EDM AND ECM TO BOOST YOUR SHOP PROFITS
67-03 M08-65398
EDG--PRECISION FORM GRINDING IN CARBIDE
67-03 M08-65401
AUTO DIES BY COMPUTER 67-03 M08-65943
THE APPLICATION OF ELECTROEROSION METHODS IN THE PRODUCTION OF STAMPING DIES 67-10 M08-79502
THERMAL ELECTRON BEAM MACHINING OF DIAMOND AND ALUMINA CERAMICS 67-10 M08-79507
EDM PLUS NC--FORDS WINNING COMBINATION FOR DIE MACHINING 67-11 M08-80677
PRODUCTION IS BASED ON EDM AT THIS PLANT
67-12 M08-82383
WORKSHOP PRACTICE IN USING OF TUNGSTEN CARBIDE, TCD, WITH EDM PROCESS 67-12 M08-82945
ELECTROLYTICALLY ASSISTED MACHINING OF HARD-ALLOY DIES FOR THE MANUFACTURE OF PIPES
67-12 M08-83411

DIES, MAINTENANCE
METHOD AND APPARATUS FOR REGENERATING SINTERED HARD-ALLOY BOLSTERS USED IN DIES
67-01 M09-58155

DIES, MATERIALS
CHANGE IN THE MECHANICAL PROPERTIES OF 3KH2V8 AND 5KHGSVF STEELS DURING SECONDARY HIGH-FREQUENCY QUENCHING 67-01 M17-57675
ABRASIVE-RESISTANT ALLOYS FOR LINING THE PLATES OF ROD MILLS 67-06 M17-70318
STREAMLINED WIRE DRAWING DIES OF MINIMUM LENGTH
67-08 M07-75780

DIES, MECHANICAL PROPERTIES
HINTS ON THE DESIGN OF LARGE DRAWING DIES
67-01 M08-58112
THE INFLUENCE OF HEAT TREATMENT FACTORS ON THE WEAR RESISTANCE OF DIES 67-06 M17-71594
INFLUENCE OF THE STRUCTURE ON THE RESISTANCE OF METAL TO WEAR BY ABRASION 67-08 M17-76008
ANALYSIS OF TOOL AND DIE FAILURES
67-11 M17-80686
HEAT TREATMENT AND MECHANICAL PROPERTIES OF DIE STEELS 67-11 M17-80971
CAST CUTTING DIES IN TOOLMAKING
67-12 M06-83574
IMPROVING THE STABILITY OF DIES BY PRELIMINARY NITRIDING 67-12 M10-81796
NITRIDING FOR IMPROVING THE STABILITY OF CUTTING TOOLS 67-12 M17-81777
INVESTIGATION OF THE CAUSES OF FAILURE AND METHODS FOR IMPROVING THE STABILITY OF HOT STAMPING DIES
67-12 M17-81797

DIES, PHYSICAL PROPERTIES
USE OF ZIRCONIUM OXIDE CERAMIC DIE NIBS FOR HOT EXTRUSION OF METALS 67-06 M07-71321

DIES, POWDER METALLURGY
ECONOMIC EFFICIENCY OF MAKING SHAPING PARTS FOR MOLDS BY POWDER METALLURGY 67-08 M09-74908

DIES, PUNCHING
COLD STAMPING OF THIN SHEET STEEL AND NONFERROUS METALS 67-02 M08-60679

DIES, SERVICE TIME
EFFECT OF HEAT TREATMENT CONDITIONS ON THE SERVICE LIFE OF CR12MOV STEEL DIES 67-02 M17-60792

DIES, STRUCTURAL MATERIALS
INTRODUCING NEW DIE STEELS 67-04 M08-67037
COLD WORK DIE STEELS MEET NEW DEMANDS IN THE AUTOMATION AND SPACE AGE 67-10 M01-79518

DIES, SURFACE HARDENING
FABRICATION AND TREATMENT OF EXTRUSION DIES. PT. 3
67-09 M10-76787
FABRICATION AND TREATMENT OF EXTRUSION DIES. PT. 4
67-09 M10-76788

DIES, WATER COOLING
EXTRUDING ALUMINUM ALLOYS THROUGH A WATER-COOLED DIE 67-01 M07-57242

DIES, WEAR
THE USE OF TEMPERATURE-RESISTANT NI-CR ALLOYS IN EXTRUSION DIES FOR THE EXTRUSION OF STEEL
67-07 M07-74109
COOLED DIES FOR METAL PRESSING 67-08 M08-76245
SOME REGULARITIES OF WEAR AND WEAR INCREASE OF PUNCHES USED IN CRANK FORGE PRESSES
67-10 M17-78546

DIES, WELDING
BUILDING UP THE DIES OF PRESSES USED FOR BRIQUETTING BROWN COALS WITH WEAR-RESISTANT METAL 67-12 M11-82032
RECONDITIONING WORN DROP STAMP DIES AND PRODUCING NEW DIES 67-12 M11-82033
MECHANIZED HARD SURFACING OF TRIMMING DIES
67-12 M11-82635

DIESEL ENGINES
BUILDUP WITH A MELTED FILLER METAL
67-04 M12-66572
OPERATING EXPERIENCE IN THE CASTING OF COMPLEX V ENGINES 67-07 M06-72489

DIESEL ENGINES, MATERIALS
THE INFLUENCE OF ALLOYING ELEMENTS ON THE PROPERTIES, ESPECIALLY TEMPERATURE ENDURANCE, OF CAST IRON WITH LAMELLAR GRAPHITE
67-09 M17-76519

DIFFERENTIAL ANALYZERS
SEE ANALOG COMPUTERS

DIFFERENTIAL GEARS, MACHINING
PINION OUTPUT DOUBLED WITH AUTOMATIC PLUNGE FORM GRINDING 67-05 M08-68662

DIFFERENTIAL THERMAL ANALYSIS
SEE THERMAL ANALYSIS

DIFFRACTION
SEE ALSO ELECTRON DIFFRACTION
NEUTRON DIFFRACTION
X RAY DIFFRACTION
ANOMALOUS OPTICAL EFFECTS IN GERMANIUM FILMS
67-01 M15-57219

DIFFRACTION GRATINGS
APPLICATION OF X-RAY DIFFRACTION GRATINGS TO ELECTRON MICROANALYSIS 67-02 M13-58927
THE PARTIAL STRUCTURE FACTORS OF LIQUID CU-SN
67-02 M13-60808
THE FINE STRUCTURE OF SPOTS IN ELECTRON DIFFRACTION RESULTING FROM THE PRESENCE OF PLANAR INTERFACES AND DISLOCATIONS. PT. 2. OBSERVATIONS ON CRYSTALS CONTAINING STACKING FAULTS 67-03 M13-65379
ON THE DIRECT MEASUREMENT OF VERY LARGE STRAIN AT HIGH STRAIN RATES 67-03 M17-65662
ELECTRON PROBE MICROANALYSIS OF THE LOW ATOMIC NUMBER ELEMENTS WITH NPL X-RAY GRATINGS
67-04 M10-67262
SUPPLEMENT TO ELECTRON DIFFRACTION AT LOW TEMPERATURE RADIAL DISTRIBUTION ANALYSIS OF A FILM COMPOSED OF VERY FINE CRYSTALLITES
67-06 M13-71548
ELECTRON DIFFRACTION AT LOW TEMPERATURE. PT. 5. ON AMORPHOUS FILMS OF TRANSITION METALS AND ALLOYS PREPARED BY LOW-TEMPERATURE CONDENSATION
67-07 M13-73319
EXPERIMENTAL STUDIES ON DYNAMIC MULTIPLE REFLECTIONS OBSERVED IN THIN FILMS OF METALS AND ALLOYS BY ELECTRON DIFFRACTION
67-08 M13-74414
INVESTIGATION OF SURFACE BOMBARDMENT DAMAGE BY LEED 67-10 M16-79546

DIFFRACTOMETERS
EVALUATION OF VARIOUS TECHNIQUES OF X-RAY STRESS MEASUREMENT WITH DIFFRACTOMETER
67-05 M17-68525

DIFFRACTOMETRY
SEE DIFFRACTION

DIFFUSION
SEE ALSO ELECTRODIFFUSION
THERMAL DIFFUSION
VACUUM DIFFUSION
KINETICS OF THERMODIFFUSIVE PROCESSES IN WELDING
67-01 M11-57645
CARBON DISTRIBUTION IN WELD METAL IN SEMI-AUTOMATIC ELECTROSLAG WELDING 67-01 M11-58218
STRUCTURE AND PHASE COMPOSITION OF DIFFUSION LAYER IN BIMETALLIC IRON-ALUMINUM CASTINGS
67-01 M13-57190
INTERDIFFUSION BETWEEN COMPONENTS AND THE PHASE DIAGRAM OF THE TI-W SYSTEM 67-01 M13-58099
SURFACE AND GRAIN-BOUNDARY DIFFUSION OF GOLD-COPPER
67-01 M14-57104
ON THE GRAIN BOUNDARY DIFFUSION OF SILVER IN TIN 67-01 M14-57296
SELF-DIFFUSION OF NIOBIUM IN SOME OF ITS ALLOYS CONTAINING MOLYBDENUM 67-01 M14-57314
DIFFUSION IN HETEROGENEOUS SOLIDS AND CALCULATION OF THE CONCENTRATION DISTRIBUTION OF ALLOYS
67-01 M14-57344
DIFFUSION KINETICS IN BINARY SYSTEMS IN THE PRESENCE OF CERTAIN PHASES 67-01 M14-57345
INFLUENCE OF SLIGHT IMPURITIES ON THE DIFFUSION COEFFICIENTS IN POLYCRYSTALLINE MATERIALS. PT. 4. EFFECT OF CADMIUM ON THE INTERGRANULAR SELF-DIFFUSION OF SILVER 67-01 M14-57346
SURFACE SELF-DIFFUSION OF GOLD. PT. 1. ANALYSIS OF THE SCRATCH-FLATTENING PROCESS
67-01 M14-57409

PERMEABILITY, SOLUBILITY, AND DIFFUSIVITY OF OXYGEN IN BCC IRON 67-01 M14-57410
ELECTROTRANSPORT OF CARBON, NITROGEN, AND OXYGEN IN THORIUM 67-01 M14-57416
THE EFFECT OF ADSORBED SULFUR ON THE SURFACE SELF-DIFFUSION OF COPPER 67-01 M14-57423
ANODIZING AS A TECHNIQUE FOR STUDYING DIFFUSION IN THE TICB SYSTEM 67-01 M14-57432
ON THE RELATION BETWEEN DIFFUSION COEFFICIENTS AND GRAIN BOUNDARY ENERGY 67-01 M14-57485
DIFFUSION OF IRON IN SOME MOLTEN NONFERROUS METALS 67-01 M14-57515
DETERMINATION OF DIFFUSION COEFFICIENTS IN METALS BY A RESISTOMETRIC METHOD--APPLICATION TO THE DIFFUSION OF ZN IN AL 67-01 M14-57561
EFFECT OF A DC FIELD ON THE LATTICE DIFFUSION OF SILVER-110 IN COPPER AND GOLD 67-01 M14-57575
SELF-DIFFUSION AND DIFFUSION OF COBALT IN ALPHA AND DELTA-IRON 67-01 M14-57938
THE DIFFUSION OF CALCIUM IN MAGNESIUM OXIDE 67-01 M14-57943
SELF-DIFFUSION OF BERYLLIUM 67-01 M14-58024
DIFFUSION OF IRON AND SILVER IN BERYLLIUM 67-01 M14-58025
REACTION DIFFUSION OF IRON IN ALUMINUM 67-01 M14-58047
HYDROGEN IN NICKEL 67-01 M14-58053
INVESTIGATION OF THE SELF-DIFFUSION OF INDIUM BY ABSORPTION WITH THE AID OF INTERNAL CONVERSION ELECTRONS OF IN114 67-01 M14-58131
ON GRAIN BOUNDARY SELF-DIFFUSION OF LEAD. PT. 1. ORIENTATION DEPENDENCE 67-01 M14-58464
DIFFUSION CALCULATIONS IN THREE-COMPONENT SOLID SOLUTIONS 67-01 M14-58468
INTER-DIFFUSION IN DILUTE CU-S, CU-SE AND CU-TE LIQUID COPPER BASE ALLOYS 67-01 M14-58747
ELECTRON PARAMAGNETIC RESONANCE, ELECTRICAL CONDUCTIVITY, AND IMPURITY DIFFUSION IN DOPED BORON 67-01 M15-58416
KINETICS OF THE REDUCTION OF THALLIUM SULPHIDE WITH CARBON MONOXIDE 67-02 M03-60730
FORMATION OF CHROMIUM-ALLOYED LAYERS ON CASTINGS 67-02 M06-61225
AUTORADIOGRAPHS IN PYROLYTIC GRAPHITE 67-02 M13-61084
THE OBSERVATION OF LOMER-COTTRELL DISLOCATIONS IN BORON-DIFFUSED --111-- SILICON BY BERG-BARRETT SKEW REFLECTIONS 67-02 M13-61662
DISLOCATIONS IN SILICON DUE TO LOCALIZED DIFFUSION 67-02 M13-61829
STUDY OF COMPATIBILITY IN THE SYSTEMS ZIRCALOY-2/ALUMINUM, ZIRCALOY-2/COPPER AND ZIRCALOY-2/NICKEL 67-02 M14-58923
THE ATOMIC MOBILITY IN A MOLYBDENUM-TUNGSTEN ALLOY 67-02 M14-58994
A REVIEW OF DIFFUSION PROCESSES IN ZIRCONIUM AND ITS ALLOYS 67-02 M14-59018
LATTICE AND GRAIN-BOUNDARY DIFFUSION OF URANIUM IN UO2 67-02 M14-59051
SURFACE SELF-DIFFUSION AT HIGH TEMPERATURES 67-02 M14-59103
SELF-DIFFUSION ON NEARLY PURE METALLIC SURFACES 67-02 M14-59104
DIFFUSION FROM DOPED OXIDE FILMS AS A PROCESS FOR THE PRODUCTION OF STRUCTURAL SEMICONDUCTOR ELEMENTS 67-02 M14-59620
ELASTIC RELAXATION DUE TO DEUTERIUM INTERSTITIAL ATOM DIFFUSION IN TANTALUM 67-02 M14-59734
MEASUREMENT OF THE SURFACE SELF-DIFFUSION COEFFICIENT OF SILVER BY THE TRACER TECHNIQUE 67-02 M14-59753
DETERMINING DIFFUSION OF CALCIUM, IRON AND SULFUR IN SINTERED OXIDIZED NICKEL ORES 67-02 M14-60087
FORMATION OF THE ALLOY LAYER IN THE FE-AL DIFFUSION COUPLES 67-02 M14-60154
THE EFFECT OF ALUMINUM ON THE STRESS-INDUCED DIFFUSION OF CARBON ATOMS IN ALPHA IRON 67-02 M14-60158
THE DIFFUSION OF C IN COMPOSITE STEELS 67-02 M14-60207
HIGH-TEMPERATURE STRENGTH AND DIFFUSIBILITY OF TITANIUM ALLOYS AFTER HEAT-TREATMENT AND THERMOMECHANICAL TREATMENT 67-02 M14-60292
DIFFUSION IN CAST STEELS DURING HOMOGENISING ANNEALS 67-02 M14-60504
PHASE TRANSFORMATIONS IN TITANIUM ALLOYS 67-02 M14-60548
MONTE CARLO STUDIES OF VACANCY MIGRATION IN BINARY ORDERED ALLOYS 67-02 M14-60595
ON THE THEORY OF GRAIN BOUNDARY MOTION 67-02 M14-60604
DETERMINING THE CARBON DIFFUSION COEFFICIENT IN ZIRCONIUM CARBIDE AT HIGH TEMPERATURES 67-02 M14-60668
RELATIONSHIPS GOVERNING THE FORMATION AND GROWTH OF A NEW PHASE DURING MUTUAL DIFFUSION OF METALS 67-02 M14-60738
INTERSTITIAL DIFFUSION OF GOLD AND SILVER IN INDIUM 67-02 M14-60765
THE ELECTROCHEMICAL MEASUREMENT OF THE ACTIVITY AND DIFFUSION OF OXYGEN IN METALS WITH ZIRCONIUM DIOXIDE AS THE SOLID ELECTROLYTE 67-02 M14-60825
SOME RELATIONSHIPS BETWEEN SELFDIFFUSION AND MELTING BEHAVIOR OF METALS 67-02 M14-60881
SPREADING OF GALLIUM ON TIN SURFACE 67-02 M14-60972
EQUILIBRIUM CONCENTRATION OF HYDROGEN IN MOLTEN ALUMINUM IN THE ORDINARY ATMOSPHERE 67-02 M14-61025
DIFFUSION OF COPPER IN IRON 67-02 M14-61077
REACTION DIFFUSION IN BINARY ALLOY-GAS SYSTEMS. PT. 3. SULPHIDING OF COPPER-ALUMINIUM AND COPPER-MANGANESE ALLOYS 67-02 M14-61180
DIFFUSION OF NITROGEN INTO SILICON CARBIDE SINGLE CRYSTALS DOPED WITH ALUMINUM 67-02 M14-61502
STUDYING DIFFUSION OF MOLYBDENUM INTO COPPER BY MEASURING THERMOELECTROMOTIVE FORCE 67-02 M14-61559
THE EFFECT OF CONCENTRATION ON THE INTERDIFFUSION COEFFICIENT OF CHROMIUM IN CHROMIUM-IRON ALLOYS 67-02 M14-61773
CARBON MIGRATION IN THE HEAT-AFFECTED ZONE OF THE BIMETAL STEEL-BRONZE 67-02 M14-61914
CALCULATION OF DIFFUSION PARAMETERS 67-02 M14-61918
DIFFUSION OF SILVER IN POLYCRYSTALLINE GOLD 67-02 M14-61925
SUPERPOSITION OF THE EFFECTS OF THE FORMATION OF DIFFUSIONAL POROSITY DURING SELF-DIFFUSION AND HETERODIFFUSION 67-02 M14-62079
DISTRIBUTION OF ELEMENTS DURING THE FORMATION OF SINTERED ALLOYS OF THE SYSTEM W-NI-FE 67-02 M14-62126
SELF-DIFFUSION OF NIOBIUM IN NB-TI AND NB-ZR ALLOYS 67-02 M14-62241
CARBON DIFFUSION IN NIOBIUM 67-02 M14-62242
STUDY OF THE SELF-DIFFUSION OF PLUTONIUM IN THE EPSILON PHASE 67-02 M14-62296
SOLUBILITY OF NITROGEN IN MOLTEN NICKEL AND IN THE ALLOYS OF NICKEL WITH CHROMIUM, MOLYBDENUM AND TUNGSTEN 67-02 M15-60726
MASS-TRANSFER FROM SOLID METAL CYLINDER INTO LIQUID METAL 67-02 M15-61852
DIFFUSION OF LI IN INSB 67-02 M16-60520
PROPAGATION OF A CRACK FILLED WITH LIQUID METAL 67-02 M17-59434
ROLE OF OXYGEN IN THE ADSORPTIVE DECREASE IN STRENGTH OF STEEL SPECIMENS IN CONTACT WITH A MELT 67-02 M17-59657
EFFECT OF METALS DISSOLVED IN MERCURY ON THE ADSORPTIVE DECREASE IN STRENGTH OF ZINC 67-02 M17-59658
DIFFUSION CREEP IN POLYCRYSTALLINE SOLIDS 67-02 M17-60753
INVESTIGATION OF THE PARTICIPATION OF SULPHUR IN REACTION DIFFUSION ON THE FORMATION OF A SULPHIDE SCALE ON NICKEL 67-02 M18-61164
OXIDATION OF A NICKEL ALLOY IN AN ATMOSPHERE CONTAINING SULPHUR 67-02 M18-61179
DIFFUSION OF H2-H2O THROUGH POROUS IRON FORMED BY THE REDUCTION OF HEMATITE 67-03 M14-65100
ON THE MECHANISM OF LATTICE ELECTROMIGRATION IN METALS 67-03 M14-65227
DIFFUSION OF SN AND ZN IN SN AND IN HOMOGENEOUS SN-ZN ALLOYS 67-03 M14-65368
VOLUME AND GRAIN BOUNDARY DIFFUSION OF SN AND ZN IN HETEROGENEOUS SN-ZN ALLOYS 67-03 M14-65369
THE ROLE OF ADSORPTION IN HETEROGENEOUS VAPOR-SOLID NUCLEATION 67-03 M14-65391
SOLID STATE DIFFUSION OF ANTIMONY IN GERMANIUM, FROM THE VAPOR PHASE, IN A VACUUM FURNACE 67-03 M14-65768
X-RAY MEASUREMENT OF ELASTIC STRAIN AND LATTICE CONSTANT OF DIFFUSED SILICON 67-03 M14-65769
STUDY OF DIFFUSION ON THE PHASE BOUNDARIES

67-03 M14-65786
LOW-TEMPERATURE DIFFUSION IN INERT-GAS BOMBARDED AL203 67-03 M14-65851
THE INTERACTION OF IRON WITH MOLTEN URANIUM 67-03 M14-65855
A COMMENT ON DIFFUSION CREEP DEFORMATION IN A MAGNESIUM REACTOR COMPONENT 67-03 M14-65862
THE INFLUENCE OF SURFACE PREPARATION ON THE SURFACE RESISTIVITY OF SILICON 67-03 M15-65692
INTERNAL FRICTION CHARACTERISTICS OF IRON-VANADIUM-NITROGEN ALLOYS 67-04 M10-67191
DIFFUSION TAKING PLACE DURING THE NON-STEADY HEATING IN DIFFUSION WELDING 67-04 M11-67348
DEVELOPMENT AND EVALUATION OF THE SYSTEM U-NB-SI AS A DISPERSED PHASE ALLOY 67-04 M14-66133
THE INTERDIFFUSION OF NIOBIUM AND MOLYBDENUM 67-04 M14-66160
DIFFUSION CONSTANTS IN LIQUID LEAD-TIN ALLOYS 67-04 M14-66175
SOME PECULIARITIES OF CARBON DIFFUSION IN MOLYBDENUM CARBIDE 67-04 M14-66260
HIGH-TEMPERATURE MOBILITY OF ATOMS OF MOLYBDENUM-TUNGSTEN SYSTEM COMPONENTS 67-04 M14-66262
A SIMPLE EVALUATION OF GRAIN BOUNDARY DIFFUSION IN LIQUID METAL EMBRITTLEMENT 67-04 M14-66273
DIFFUSION IN SOLIDS. V 1 67-04 M14-66300
DETERMINATION OF THE DIFFUSION COEFFICIENT OF CARBON IN NICKEL BY THERMOGRAVIMETRIC ANALYSIS 67-04 M14-66339
STUDY OF FACTORS INTERVENING IN HYDROGEN DIFFUSION IN IRON 67-04 M14-66351
SOLUBILITY OF NB PRECIPITATES IN AUSTENITE, IN THE CASE OF LOW-CARBON STRUCTURAL STEELS WITH SMALL NB QUANTITIES 67-04 M14-66352
INTERACTION OF TANTALUM WITH NITROGEN AND AIR 67-04 M14-66449
STRUCTURAL INVESTIGATION OF REACTION DIFFUSION IN THE COPPER-ZINC SYSTEM 67-04 M14-66486
ON THE ANOMALOUS DIFFUSION BEHAVIOUR OF BCC ZIRCONIUM 67-04 M14-66547
SURFACE RECOMBINATION VELOCITIES AND DIFFUSION LENGTHS IN GAAS 67-04 M14-66762
DISLOCATION-INDUCED DEVIATION OF PHOSPHORUS-DIFFUSION PROFILES IN SILICON 67-04 M14-67102
INTERDIFFUSION IN THE CU-ZN SYSTEM 67-04 M14-67145
DIFFUSION OF MASSIVE CARBIDES IN BEARING STEELS BY SOAKING 67-04 M14-67183
DIFFUSION IN A TERNARY SUBSTITUTIONAL SYSTEM-- APPLICATION TO THE COBALT-NICKEL-CHROMIUM SYSTEM 67-04 M14-67268
DIFFUSION IN SOLIDS 67-04 M14-67298
QUENCHED-IN VACANCIES AND LOW-TEMPERATURE DIFFUSION IN AL-RICH ALLOYS 67-04 M14-67317
SELF-DIFFUSION IN MONOCRYSTALLINE NICKEL 67-04 M14-67379
DIFFUSION OF OXYGEN WITH UO2 UNDER AN ELECTRIC FIELD AT TEMPERATURES OF 900 TO 1000 C 67-04 M14-67462
INTERSTITIAL SOLUTIONS OF NOBLE METALS IN METALS AND SEMICONDUCTORS 67-04 M14-67540
OBSERVATION AND QUANTITATIVE MEASUREMENTS OF GRAIN BOUNDARY DIFFUSION PHENOMENA IN IRON AND COBALT 67-04 M14-67562
TRANSFORMATION OF AUSTENITE DURING CONTINUOUS COOLING 67-04 M14-67615
EFFECT OF METALS SOLUBLE IN MERCURY ON THE RATE OF MERCURY DIFFUSION OVER THE SURFACE OF POLYCRYSTALLINE ZINC 67-04 M14-67637
CARBON DIFFUSION IN CHROMIUM 67-04 M14-67653
CARBON DIFFUSION IN BETA ZIRCONIUM 67-04 M14-67657
EFFECT OF ORDERING ON THE HYDROGEN PERMEABILITY OF IRON ALLOYS WITH COBALT 67-04 M14-67660
STUDY OF MUTUAL DIFFUSION IN BINARY SYSTEMS FORMING A CONTINUOUS SERIES OF SOLID SOLUTIONS, BY LOCAL X-RAY SPECTRAL ANALYSIS. PT. 1 67-04 M14-67915
THE DIFFUSION ACTIVATION ENERGY OF INTERSTITIAL ELEMENTS IN TRANSITION METALS WITH A BODY-CENTERED LATTICE 67-04 M14-67916
CALCULATING THE DIFFUSIONAL GROWTH RATE OF A PORE UNDER THE EFFECT OF APPLIED STRESS 67-04 M14-67917
ELECTRODIFFUSION OF SN AND HG IN THEIR ALLOYS CONTAINING GA 67-04 M14-67918
SELF-DIFFUSION IN HIGHLY-DILUTED BINARY SOLUTIONS. PT. 3. EFFECT OF SN, SB, PB AND BI PHASE 67-04 M14-67919
PROPERTIES OF THE FREE ENERGY ASSOCIATED WITH THE INTERDIFFUSION OF TWO SOLIDS 67-04 M15-66064
INTERDIFFUSION IN THE ZN-U SYSTEM 67-04 M15-66662
RELATIONSHIP BETWEEN THE HYDROGEN DIFFUSION WAVE PROPAGATED IN A METAL SHEET AND THE DEFORMATION PRODUCED BY THIS WAVE 67-04 M17-66045
THE MECHANICAL DAMPING OF IRON FROM ROOM TEMPERATURE TO 400 C. AT 7 MEGACYCLES/SEC 67-04 M17-66051
DIFFUSION PROCESSES IN CHROMIUM-IRON ALLOYS 67-05 M14-68247
DIFFUSION OF THE SOLVENT AND THE SOLUTE IN DILUTE ALLOYS OF FACE CENTERED CUBIC METALS 67-05 M14-68287
DIFFUSION OF PHOSPHORUS IN IRON 67-05 M14-68376
DIFFUSION IN LIQUID METALS 67-05 M14-68517
THE EFFECT OF P VAPOR ON COMMERCIAL NI AND W 67-05 M14-68586
PRECIPITATES INDUCED IN GAAS BY THE INDIFFUSION OF ZINC 67-05 M14-68626
DECORATED DISLOCATIONS AND SUB-SURFACE DEFECTS INDUCED IN GAAS BY THE IN-DIFFUSION OF ZINC 67-05 M14-68627
TRACER EVALUATION OF HYDROGEN IN STEAM-GROWN SIO2 FILMS 67-05 M14-68629
SELF-DIFFUSION IN POTASSIUM 67-05 M14-68760
DIBORANE FOR BORON DIFFUSION INTO SILICON 67-05 M14-68777
IMPERFECTIONS DUE TO DOUBLE DIFFUSIONS IN EPITAXIAL SILICON 67-05 M14-69211
DIFFUSION COEFFICIENT OF NITROGEN IN CHROMIUM 67-05 M14-69213
GROWTH OF THIN GOLD FILMS ON ROCKSALT FROM 80 K. TO 475 K 67-05 M14-69214
DIFFUSION SCATTERING AND SHORT-RANGE ORDER IN ALPHA-CUAL ALLOYS 67-05 M14-69240
THE DETERMINATION OF THE TEMPERATURE DEPENDENCE PARAMETERS OF THE DIFFUSION COEFFICIENT BY THE METHOD OF REDUCED TIME 67-05 M14-69609
ISOTOPE EFFECTS IN THE DIFFUSION AND SOLUBILITY OF HYDROGEN IN NICKEL 67-05 M14-69674
DIFFUSION AND SOLUBILITY OF HYDROGEN IN SINGLE CRYSTALS OF NICKEL AND NICKEL-VANADIUM ALLOY 67-05 M14-69675
SELF-DIFFUSION IN NEAR-EQUIATOMIC ORDERED AU-CD ALLOYS 67-05 M14-69819
ON THE OXIDATION AND REMOVAL BY DIFFUSION OF MG IN AL AND AL-MG ALLOYS 67-05 M15-68757
ELECTRON TRANSPORT IN POLYCRYSTALLINE TIN 67-05 M15-68854
INVESTIGATION OF ELECTRIC TRANSPORT AND DIFFUSION IN INDIUM-ANTIMONY SYSTEMS 67-05 M15-69260
AN ELECTROPHOTOGRAPHIC METHOD FOR DETERMINING THE DIFFUSION COEFFICIENT OF LITHIUM IN P-TYPE SILICON 67-05 M16-69379
DIFFUSION AND ELECTRICAL TRANSPORT OF ZINC IN INDIUM ARSENIDE 67-05 M16-69383
INVESTIGATION OF THE DIFFUSION OF BORON IN SILICON FROM A LAYER DOPED BY ION BOMBARDMENT 67-05 M16-69391
DIFFUSION AND SOLUBILITY OF CADMIUM IN INDIUM ARSENIDE 67-05 M16-69395
THE ACCELERATING EFFECT OF NITROGEN ON THE DIFFUSION OF CARBON INTO STEEL DURING HIGH-TEMPERATURE CARBONITRIDING 67-06 M10-70366
CORRELATION COEFFICIENT AND THE ISOTOPE EFFECT FOR THE DIFFUSION OF ZINC IN SILVER 67-06 M14-69908
ISOTOPE EFFECT FOR THE DIFFUSION OF ZINC IN COPPER, AND ORDERED AND DISORDERED CUZN 67-06 M14-69909
KINETICS OF SOLUTE-ENHANCED DIFFUSION IN DILUTE FACE-CENTERED-CUBIC ALLOYS 67-06 M14-69910
ANISOTROPIC DIFFUSION OF MERCURY IN ZINC 67-06 M14-69911
DIFFUSION OF YTTRIUM IN ZIRCONIUM 67-06 M14-70104
STUDY OF THE KINETICS OF DIFFUSION OF SEVERAL ELEMENTS FROM THE SAME SOURCE 67-06 M14-70322
THE BOUNDARY DIFFUSION OF NICKEL INTO IRON 67-06 M14-70332
INVESTIGATION OF THE DIFFUSION IN COPPER MICROWIRES 67-06 M14-70336
DETERMINATION OF THE TRUE DIFFUSION COEFFICIENTS AND OF THE THERMODYNAMIC ACTIVITY BY INTERNAL

FRICTION METHOD 67-06 M14-70339
MEASUREMENT OF SURFACE DIFFUSION COEFFICIENTS BY COALESCENCE OF INERT GAS BUBBLES 67-06 M14-70424
INVESTIGATION OF THE DIFFUSION OF ANTIMONY AND INDIUM IN GERMANIUM, INCLUDING EFFECT OF INTERNAL ELECTRIC FIELD 67-06 M14-70869
INFLUENCE OF OXYGEN IN SILICON ON THE MOTION OF DISLOCATIONS GENERATED BY DIFFUSION 67-06 M14-70873
SELF-DIFFUSION IN MOLTEN ALLOYS OF SN-SB, SN-PB AND SN-ZN 67-06 M14-70904
DIFFUSION AND SOLUBILITY OF ZINC, CADMIUM, INDIUM AND IRON IN LEAD SELENIDE 67-06 M14-70939
THE IMPORTANCE OF LOW-ANGLE BOUNDARIES IN DIFFUSION 67-06 M14-71105
SELF-DIFFUSION OF OXYGEN IN Y203 AND ER203 67-06 M14-71167
DIFFUSION AND SOLUBILITY OF HYDROGEN IN NICKEL-MANGANESE ALLOYS 67-06 M14-71365
THE BEHAVIOR OF IMPURITIES IN LEAD SELENIDE SINGLE CRYSTALS 67-06 M14-71372
STUDY OF SELF-DIFFUSION AND DIFFUSION OF IRON IN IRON-COPPER ALLOYS 67-06 M14-71396
THE DIFFUSION OF CARBON IN TANTALUM MONOCARBIDE 67-06 M14-71614
ON THE DIFFUSION OF ALUMINUM INTO SILICON 67-06 M14-71695
ON THE TRACER DIFFUSION COEFFICIENT OF LEAD IN TWO-PHASE LEAD-SILVER CRYSTALS 67-06 M14-71724
DIFFUSION OF ANTIMONY IN EPITAXIAL GERMANIUM LAYERS 67-06 M14-71760
DIFFUSION OF INDIUM OVER THE SURFACE OF GERMANIUM 67-06 M14-71831
INVESTIGATION OF THE DIFFUSION OF ANTIMONY AND INDIUM IN GERMANIUM WITH ACCOUNT OF THE INTERNAL ELECTRIC FIELD 67-06 M14-71832
DIFFUSION IN POLYPHASE ALLOY SYSTEMS 67-06 M14-71858
DIFFUSION OF ANTIMONY IN EPITAXIAL LAYERS OF GERMANIUM 67-06 M14-71921
THE ISOTOPE EFFECT FOR DIFFUSION IN THE CR-NI SYSTEM.. CRITICISM OF A PAPER BY HEUMANN AND REERINK 67-06 M14-71973
ON THE NATURE OF SHORT-CIRCUIT DIFFUSION PATHS IN NICKEL OXIDE FILMS 67-06 M14-71975
DIFFUSION MECHANISM IN BODY-CENTERED CUBIC METALS 67-06 M14-72066
INSOLUBILITY AND DISLOCATION DIFFUSION IN METALS 67-06 M14-72229
REACTION DIFFUSION OF CARBON IN THE ME-C SYSTEM 67-06 M14-72342
THE PROBLEM OF DIFFUSION IN METAL CRYSTAL DEFECTS SUCH AS DISLOCATIONS AND BOUNDARIES 67-06 M14-72345
DIFFUSION AND ELECTROTRANSPORT OF SOLUTES IN MOLTEN GERMANIUM--IMPLICATIONS FOR PRODUCING P-N JUNCTIONS 67-06 M15-69927
THERMODYNAMIC PROPERTIES OF THE GAMMA PHASE OF THE URANIUM-ZIRCONIUM SYSTEM 67-06 M15-70946
ABSORBED SPECIMEN CURRENT ANOMALY OF CU-ZN DIFFUSION COUPLE IN ELECTRON SCANNING MICROSCOPE 67-06 M15-71550
THE EFFECT OF APPLIED ELECTRIC FIELD ON DIFFUSION OF IMPURITIES IN GALLIUM ARSENIDE 67-06 M16-70986
ELECTRON MIRROR OBSERVATION OF LITHIUM PRECIPITATION AT SCRATCH-INDUCED DISLOCATIONS IN SILICON 67-06 M16-70994
ANNEALING EFFECTS OF LI-SATURATED P-TYPE INSB 67-06 M16-71551
ANODIC OXIDE GROWTH BEHAVIOR ON SILICON 67-06 M16-72177
LOSS OF PLATINUM OXIDE FROM HEATED PLATINUM--A BOUNDARY LAYER DIFFUSION MECHANISM 67-06 M18-72267
SURFACE SELF-DIFFUSION AND SURFACE ENERGY OF NICKEL 67-07 M14-72643
DIFFUSION OF ZIRCONIUM IN ZIRCONIUM HYDRIDE 67-07 M14-72831
TRACER DIFFUSION OF MERCURY IN THALLIUM AMALGAMS 67-07 M14-72875
SURFACE AND VOLUME DIFFUSION IN THIN FILMS OF THE SYSTEM AG-SE 67-07 M14-72944
ELECTRON MIRROR MICROSCOPIC INVESTIGATION OF SURFACE DIFFUSION OF LITHIUM IN SILICON 67-07 M14-72955
DIFFUSION MEASUREMENTS INVOLVING DISCONTINUOUS INTERFACIAL CONTACT 67-07 M14-72958
DETERMINATION OF THE DIFFUSION COEFFICIENT OF CARBON INTO ZIRCONIUM CARBIDE AT HIGH TEMPERATURES 67-07 M14-73104
ADSORPTION, ABSORPTION, AND DEGASSING IN THE OXYGEN-NIOBIUM SYSTEM AT VERY LOW PRESSURE 67-07 M14-73453
A RAPID SOLID-ELECTROCHEMICAL METHOD FOR STUDYING HIGH-TEMPERATURE DIFFUSION IN METALS 67-07 M14-73456
INVESTIGATION OF THE KIRKENDALL EFFECT IN THE IRON-COPPER SYSTEM 67-07 M14-73472
MUTUAL DIFFUSION IN SOME BINARY SYSTEMS WHICH FORM CONTINUOUS SERIES OF SOLID SOLUTIONS 67-07 M14-73476
CALCULATION OF BOUNDARY DIFFUSION 67-07 M14-73487
CU DIFFUSION IN ELECTRODEPOSITED PERMALLOY FILMS 67-07 M14-73591
DIFFUSION 67-07 M14-73680
SELF-DIFFUSION IN BERYLLIUM SINGLE CRYSTALS 67-07 M14-73748
SELF-DIFFUSION AND DIFFUSION OF FOREIGN ATOMS IN BERYLLIUM 67-07 M14-73749
ON THE PRECIPITATION OF COPPER IN SILICON CRYSTALS OF DIFFERENT REAL STRUCTURE 67-07 M14-73895
STRESS-INDUCED SOLUTE DIFFUSION ALONG DISLOCATIONS IN DILUTE COPPER ALLOYS 67-07 M14-73911
DIFFUSION AND THE KIRKENDALL SHIFT IN BINARY ALLOYS 67-07 M14-73916
SELF-DIFFUSION IN TELLURIUM. PT. 2. GRAIN BOUNDARY AND DISLOCATION EFFECTS 67-07 M14-73935
MUTUAL DIFFUSION OF COLUMBIUM WITH SOME REFRACTORY METALS 67-07 M14-74188
CORROSION RESISTANCE OF ARMCO IRON IN LIQUID LITHIUM 67-07 M18-73166
EXPERIMENTAL METHODS OF MATERIALS RESEARCH. V. 1. ADVANCES IN MATERIALS RESEARCH 67-08 M01-74690
ELECTRONIC MODELING OF THE SINTERING MECHANISM OF METALLIC AND NONMETALLIC POWDERS 67-08 M09-74934
DIFFUSION OF CARBON IN VANADIUM CARBIDES AND TITANIUM CARBIDES 67-08 M14-74314
SOLUBILITY OF HYDROGEN IN TITANIUM AT 900 TO 1500 C 67-08 M14-74412
DIFFUSION OF FISSION PRODUCTS IN CERAMIC FUELS 67-08 M14-74418
LATTICE AND GRAIN-BOUNDARY DIFFUSION OF URANIUM IN UO2 67-08 M14-74419
SOME EXPERIMENTAL ASPECTS OF DIFFUSION IN METALS 67-08 M14-74700
MOBILITY OF ATOMS OF ALLOYED ELEMENTS IN AUSTENITE 67-08 M14-74958
DIFFUSION OF POTASSIUM IN SINGLE CRYSTALS AND POLYCRYSTALLINE AGGREGATES OF MOLYBDENUM 67-08 M14-74976
THE SOLUTION OF CARBON IN LIQUID RAW IRON 67-08 M14-75067
SURFACE SELF-DIFFUSION OF NICKEL AND PLATINUM 67-08 M14-75128
DIFFUSION OF OPEN HEARTH SLAGS IN BASIC REFRACTORIES 67-08 M14-75524
OXYGEN DIFFUSION IN MELTED IRON 67-08 M14-75869
DISSOCIATIVE DIFFUSION OF NICKEL IN SILICON AND SELF-DIFFUSION OF SILICON 67-08 M14-75936
DISSOLUTION AND MOBILITY OF HYDROGEN IN COPPER. PT. 1. QUALITATIVE STUDY 67-08 M14-76212
ELECTRICAL RESISTANCE AND ELECTRICAL TRANSPORT IN THE BI-ZN SYSTEM AT 700 C 67-08 M15-74644
EXPERIMENTAL STUDY ON THE OUT-DIFFUSION OF SB FROM GE AND ITS APPLICATION TO TRANSISTORS 67-08 M16-74606
EFFECT OF MGO AND MGTIO3 DOPING ON DIFFUSION-CONTROLLEC CREEP OF POLYCRYSTALLINE ALUMINUM OXIDE 67-08 M17-76095
THE PROBLEM OF H2 IN STEELS 67-08 M17-76292
INITIAL SINTERING OF RUTILE 67-09 M09-76398
DISSOLUTION KINETICS OF STEEL IN COPPER AND OF COPPER IN ALUMINUM UNDER WELDING CONDITIONS 67-09 M11-78116
USE OF AUTORADIOGRAPHY FOR ANALYSIS OF INTERACTION OF CARBON AND PHOSPHORUS IN STEEL 67-09 M13-77402
EARLY STAGES OF SPINOIDAL DECOMPOSITION IN AN ALUMINUM-ZINC ALLOY 67-09 M13-77594
DIFFUSION OF PLUTONIUM IN THE SOLID STATE

67-09 M14-75323
SURFACE DIFFUSION IN BCC AND FCC METALS
67-09 M14-76367
THE EFFECT OF ADSORBED SULPHUR ON THE SURFACE SELF-DIFFUSION OF SILVER 67-09 M14-76485
A PREMELTING PHENOMENON IN NA-K ALLOYS
67-09 M14-76591
A COMPUTER PROGRAM FOR THE DESCRIPTION OF DIFFUSION KINETICS IN METALS 67-09 M14-76800
EFFECTS OF ORDER-DISORDER PHASE TRANSITION ON INTERDIFFUSION IN GOLD-COPPER ALLOYS
67-09 M14-76952
SILVER DEPOSITION ON BATTERY SEPARATORS
67-09 M14-77145
TEMPERATURE DEPENDENCE OF INTERGRANULAR ADSORPTION OF CARBON AND PHOSPHORUS IN IRON AND STEEL
67-09 M14-77366
CHARACTERISTICS OF DIFFUSION PROCESS DURING ULTRASONIC WELDING OF COMMERCIAL IRON
67-09 M14-77418
POROSITY EFFECTS IN THE IONIZATION OF CESIUM ON TUNGSTEN 67-09 M14-77444
INSB AND INAS LATTICE CHANGE DURING ZINC DIFFUSION
67-09 M14-77456
A STUDY OF NUCLEATION IN CHEMICALLY GROWN EPITAXIAL SILICON FILMS USING MOLECULAR BEAM TECHNIQUES. PT. 3. NUCLEATION RATE MEASUREMENTS AND THE EFFECT OF OXYGEN ON INITIAL GROWTH BEHAVIOR 67-09 M14-77521
THE DIFFUSION OF COPPER IN SILVER --RICH---COPPER ALLOYS 67-09 M14-77738
DIFFUSION AND SULFUR DISTRIBUTION IN ZIRCONIUM
67-09 M14-77775
SELF-DIFFUSION IN SINGLE CRYSTAL OF SILVER CONTAINING ALUMINA PARTICLES 67-09 M14-77874
ELECTROLYTIC DISSOLUTION OF BINARY ALLOYS CONTAINING A NOBLE METAL 67-09 M14-77892
DETERMINATION OF INTRINSIC DIFFUSION COEFFICIENTS BY MEASUREMENT OF THE KIRKENDALL EFFECT IN THE CU-NI SYSTEM 67-09 M14-78013
THE DIFFUSION OF XENON IN SILVER
67-09 M14-78051
MEASUREMENT OF DIFFUSION PROFILE OF ZN IN N-TYPE GAAS BY A SPREADING RESISTANCE TECHNIQUE
67-09 M14-78063
INTERNAL FRICTION OF FE-CO-N AND FE-NI-N ALLOYS
67-09 M14-78203
DIFFUSION OF HYDROGEN IN ALUMINUM
67-09 M14-78253
DIFFUSION OF XENON IN COPPER 67-09 M14-78263
PRECIPITATION PHENOMENA IN BINARY ZINC ALLOYS
67-09 M14-78286
INFLUENCE OF LITHIUM ON MECHANICAL PROPERTIES OF ARMCO IRON 67-09 M17-76427
PLATINUM OXIDATION KINETICS WITH CONVECTIVE DIFFUSION AND SURFACE REACTION
67-09 M18-76622
METALS REFERENCE BOOK. V. 2 67-10 M01-79103
STUDY ON THE NITRIDING OF ALLOY STEELS
67-10 M10-79060
THERMAL ETCHING OF COPPER SINGLE CRYSTALS
67-10 M13-78566
A STUDY OF EFFECTIVE VOLUMETRIC SELF-DIFFUSION IN SINTERED NICKEL 67-10 M14-78318
THE CONNECTION BETWEEN THE DIFFUSION FACTORS ALONG GRAIN BOUNDARIES AND SURFACE TENSION
67-10 M14-78354
DIFFUSION OF ALUMINUM IN THE BINARY IRON-BRONZE SYSTEM 67-10 M14-78368
SOLID STATE DIFFUSION IN FE-ZN 67-10 M14-78400
INFLUENCE OF HYDROGEN ON THE PROPERTIES OF IRON AND ITS ALLOYS 67-10 M14-78527
MEASUREMENTS OF THE SELF-DIFFUSION COEFFICIENT OF CADMIUM WITH THE AID OF THE SECTION METHOD
67-10 M14-78693
SOME CHARACTERISTICS OF THE DIFFUSION OF CARBON IN MOLYBDENUM CARBIDE 67-10 M14-78992
HIGH-TEMPERATURE MOBILITY OF ATOMS OF THE COMPONENTS IN THE SYSTEM MOLYBDENUM-TUNGSTEN
67-10 M14-78994
CHARACTERISTICS OF GAS SATURATION OF ALPHA-BETA TITANIUM ALLOYS 67-10 M14-79141
INVESTIGATION OF 99.0 PER CENT PURE ALUMINUM IN THE AS-CAST CONDITION AND FOLLOWING VARIOUS SLAB ANNEALS 67-10 M14-79385
ANISOTROPIC ISOTOPE EFFECT FOR DIFFUSION OF ZINC AND CADMIUM IN ZINC 67-10 M14-79411
DIFFUSION AND ELECTRIC TRANSPORT OF INDIUM AND SILVER ALONG DISLOCATIONS IN SILICON
67-10 M14-79474
THE DIFFUSION OF S IN AG 67-10 M14-79585
EXPERIMENTAL STUDY OF THE EFFECT OF TEMPERATURE GRADIENT ON THE DISTRIBUTION OF HYDROGEN IN ZIRCONIUM 67-10 M14-79625
DIFFUSION OF YTTRIUM IN ZIRCONIUM
67-10 M14-79626
SOME LAWS REGARDING CHANGES IN THE PARAMETERS DO AND Q DURING DIFFUSION IN METALS AND ALLOYS
67-10 M14-79634
SELF-DIFFUSION IN ALPHA URANIUM
67-10 M14-79635
PHASE DIAGRAM OF THE UC-W SYSTEM AND DIFFUSION OF URANIUM FROM URANIUM CARBIDE INTO TUNGSTEN
67-10 M14-79636
ABSORPTION METHOD OF DETERMINING THE DIFFUSION COEFFICIENT OF ALPHA-RADIOACTIVE ELEMENTS
67-10 M14-79639
RESEARCH INTO THE DIFFUSION OF COBALT IN STEEL
67-10 M14-79658
SPECIAL PROTECTION OF HIGHLY HEAT-RESISTANT MATERIALS 67-10 M14-79683
A CONTRIBUTION TO THE STUDY OF THE DIFFUSION OF S IN HIGH-PURITY CU 67-10 M14-79709
DIFFUSION IN THE FE-NI SYSTEM 67-10 M14-79710
DETERMINATION OF THE INTRINSIC COEFFICIENTS OF DIFFUSION BY MEASURING THE KIRKENDALL EFFECT IN THE FE-NI SYSTEM 67-10 M14-79711
DIFFUSION OF ZINC IN COPPER CRYSTAL FILAMENTS
67-10 M14-79847
STUDY OF PHASE DIFFUSION IN THE NICKEL-GOLD SYSTEM DURING ISOTHERMAL ANNEALING 67-10 M14-79911
KINETIC STUDY OF THE ABSORPTION OF OXYGEN FROM THE AIR BY LIQUID SILVER 67-10 M14-79924
METALLURGICAL ASPECTS OF THE ALLOY-DIFFUSION METHOD IN TRANSISTOR TECHNOLOGY 67-10 M14-79954
INFLUENCE OF ELECTRICAL CONDITIONS ON THE DIFFUSION OF HYDROGEN IN IRON AND CARBON STEELS
67-10 M14-79986
SELF-DIFFUSION IN SINGLE AND POLYCRYSTALLINE TUNGSTEN 67-10 M14-80068
SELF-DIFFUSION OF GERMANIUM ALONG INHERENT DISLOCATIONS IN AN EXTERNAL ELECTRIC FIELD
67-10 M14-80088
ELECTRICAL AND TRANSPORT PROPERTIES OF CU IN INAS
67-10 M15-79968
ELECTRONIC EXCITATIONS IN METALS
67-10 M16-78309
SUPERCONDUCTING CRITICAL CURRENTS OF V3GA WIRES MADE BY A NEW DIFFUSION PROCESS
67-10 M16-79125
HIGH-TEMPERATURE OXIDATION OF TITANIUM
67-10 M18-78668
STUDY OF THE W-TA-RE SYSTEM BY THE DIFFUSION LAYER METHOD 67-11 M13-81174
DISCONTINUOUS PRECIPITATION IN DEFORMED AL-CU ALLOYS 67-11 M13-81600
STUDY OF DIFFUSION PHENOMENA IN THE TERNARY/ SYSTEM FE-NI-CO 67-11 M14-80147
REACTIVE DIFFUSION OF ANTIMONY AND ZINC WITH ELEMENTS OF THE SIXTH GROUP AND ENERGY OF THE CHEMICAL BOND 67-11 M14-80164
MEASUREMENT OF DIFFUSION OF GOLD IN COPPER BY ELASTIC SCATTERING OF DEUTERON
67-11 M14-80194
ABSORPTION OF GASEOUS HYDROGEN BY ZIRCALLOY-2
67-11 M14-80309
OXIDATION BEHAVIOR OF MIXED FE AND MN PROTOXIDES AND THEIR LACUNAR STRUCTURE 67-11 M14-80357
THE ROLE OF SURFACE, VOLUME AND GRAIN BOUNDARY DIFFUSION IN THE SINTERING PROCESS OF METALS
67-11 M14-80380
SIMULTANEOUS DIFFUSION OF GA AND AS INTO SILICON FROM A GAAS SOURCE 67-11 M14-80535
THE CONTROLLING STAGE OF CARBON TRANSPORT IN THE CARBON STEEL-SODIUM MELT-CHROMIUM-NICKEL STEEL SYSTEM 67-11 M14-80581
STUDY OF THE DIFFUSION OF SODIUM AND POTASSIUM IN IRON 67-11 M14-80582
HYDROGEN PERMEABILITY OF SOME TRANSITION METALS AND METALS OF GROUP 1 OF THE PERIODIC SYSTEM
67-11 M14-80595
HERRING-NABARRO CREEP STUDIES ON THE SELF-DIFFUSION OF IRON IN THE PRESENCE OF SOLUTES
67-11 M14-80621
DETERMINATION OF DIFFUSION COEFFICIENTS BY MEASURING THE KIRKENDALL EFFECT
67-11 M14-80623
DIFFUSION AND SOLUBILITY IN GALLIUM ANTIMONIDE

67-11 M14-80626
DIFFUSION OF IMPURITIES IN POLYCRYSTALLINE SILVER. PT. 1. DIFFUSION OF INDIUM 67-11 M14-80730
DISSOLUTION OF STEEL CYLINDER INTO LIQUID FE-C ALLOY 67-11 M14-80749
DIFFUSION OF ZINC IN GALLIUM ARSENIDE UNDER ARSENIC VAPOR PRESSURE 67-11 M14-80813
INTERACTION OF TANTALUM WITH NITROGEN AND AIR 67-11 M14-80990
EFFECT OF AN INTERNAL ELECTRIC FIELD ON SIMULTANEOUS DIFFUSION OF IMPURITIES IN SEMICONDUCTORS 67-11 M14-81044
DIFFUSIONAL PROPERTIES OF THE STAGE-3 DEFECT IN COPPER. PT. 2. A MODEL FOR DEFECT-DISLOCATION INTERACTIONS 67-11 M14-81081
DISTRIBUTION OF CARBON AND ALLOYING ELEMENTS BETWEEN SOLID SOLUTION AND CARBIDES IN STEEL 67-11 M14-81156
DIFFUSION OF CADMIUM AND TIN IN LIQUID BISMUTH 67-11 M14-81207
SELF-DIFFUSION OF NI IN NI-FE ALLOYS 67-11 M14-81259
A POSSIBLE ALLOY OF NICKEL AND SILVER IN THIN FILMS 67-11 M14-81268
ELECTROTRANSPORT OF BISMUTH IN LIQUID TIN 67-11 M14-81273
GRAIN BOUNDARY DIFFUSION IN TUNGSTEN 67-11 M14-81346
SELF-DIFFUSION OF BERYLLIUM IN POLYCRYSTALLINE BERYLLIUM OXIDE 67-11 M14-81557
DIFFUSION MECHANISMS IN ORDERED BODY-CENTERED CUBIC ALLOYS 67-11 M14-81590
SELF-AND IMPURITY DIFFUSION IN ALPHA-ZIRCONIUM 67-11 M14-81597
PLUTONIUM 67-11 M15-80461
URANIUM AND THORIUM OXIDES 67-11 M15-80462
DIFFUSIONAL PROPERTIES OF THE STAGE-3 DEFECT IN COPPER. PT. 3. BULK DIFFUSION 67-11 M16-81082
RELATION BETWEEN THE DIFFUSION AND CREEP PROPERTIES OF METAL COMPOUNDS 67-11 M17-81424
THE ROLE OF SURFACE, VOLUME AND GRAIN BOUNDARY DIFFUSION IN SINTERING OF METALS 67-12 M09-82054
ACTIVATED SINTERING OF TUNGSTEN AND MOLYBDENUM POWDERS 67-12 M09-82209
X-RAY INVESTIGATION OF DIFFUSION DURING SINTERING OF NI-CR AND FE-CR COMPACTS 67-12 M09-83555
RELATIONSHIP BETWEEN THE DIFFUSION OF C AND THE DISTRIBUTION OF TEMPERATURE WITHIN A CHARGE 67-12 M10-82841
A RESISTOMETRIC STUDY OF THE INITIAL AGING BEHAVIOR OF QUENCHED COPPER-BERYLLIUM ALLOYS 67-12 M10-83067
EFFECT OF NICKEL IN AUSTENITIC WELDS ON THE MIGRATION OF CARBON TO THE WELDED JOINTS OF DISSIMILAR STEELS 67-12 M11-81908
THE ROLE OF DIFFUSION AND TRANSPORT OF MATERIAL IN THE ELECTROLYTIC DEPOSITION OF METALS 67-12 M12-83383
NITROGEN DIFFUSION IN ELECTRIC STEELMAKING SLAGS 67-12 M14-81702
A NOTE ON NICKEL DIFFUSION IN COPPER 67-12 M14-82018
METHOD OF INVESTIGATING THE KINETICS OF THE INTERACTION OF TWO LIQUID PHASES UNDER CONTROLLED CONVECTION CONDITIONS 67-12 M14-82105
THE RATES OF DIFFUSION AND COAGULATION OF CARBIDES IN CHROMIUM STEELS EXPOSED TO ELEVATED TEMPERATURES FOR LONG PERIODS 67-12 M14-82154
DIFFUSION OF METALLIC IMPURITIES IN ZIRCONIUM AND TITANIUM 67-12 M14-82330
EFFECT OF ELECTRICAL FIELD ON INTERCRYSTALLINE DIFFUSION IN GROUP 1 NOBLE METALS 67-12 M14-82331
MEASUREMENT OF DIFFUSION OF GOLD IN COPPER BY ELASTIC SCATTERING OF DEUTERON 67-12 M14-82357
INVESTIGATION OF COPPER DIFFUSION IN BI2TE3 BY ETCHING TECHNIQUE 67-12 M14-82362
DIFFUSION OF MOLYBDENUM IN ALUMINUM 67-12 M14-82378
THE EFFECT OF ORGANIC SUBSTANCES UPON THE ABSORPTION OF CATHODICALLY PRODUCED HYDROGEN BY IRON IN ELECTROLYTE SOLUTIONS 67-12 M14-82426
DISTRIBUTION OF CATHODICALLY PRODUCED HYDROGEN IN STEEL SURFACE LAYERS 67-12 M14-82429
SOLUBILITY, PERMEABILITY, AND DIFFUSIVITY OF OXYGEN IN SOLID IRON 67-12 M14-82559
TERNARY DIFFUSION IN COPPER-SILVER-GOLD ALLOYS 67-12 M14-82713
DEFECT INTERACTION IN THE DIFFUSION ZONE OF SHORT GOLD-SILVER COUPLES 67-12 M14-82722
DETERMINATION OF THE DISTRIBUTION COEFFICIENT AND DIFFUSION CONSTANTS IN DILUTE ALLOYS OF THALLIUM IN TIN 67-12 M14-82738
THE DIFFUSION OF HYDROGEN IN LIQUID IRON 67-12 M14-82753
REACTION DIFFUSION AND KIRKENDALL-EFFECT IN THE NICKEL-ALUMINUM SYSTEM 67-12 M14-82757
THE MORPHOLOGY AND MORPHOLOGICAL STABILITY OF LARGE PRECIPITATES FORMED IN CUZN AND CUZN SN 67-12 M14-82759
THE NITRIDING OF CHROMIUM IN N2-H2 GAS MIXTURES AT ELEVATED TEMPERATURES 67-12 M14-82764
PREDICTING THE COURSE OF HOMOGENIZATION IN MULTICOMPONENT ALLOYS 67-12 M14-82849
THE REACTIONS OF LIQUID TITANIUM AND HAFNIUM WITH CARBON 67-12 M14-82878
INTERSTITIAL DIFFUSION IN THE BCC LATTICE 67-12 M14-82965
NMR MEASUREMENT OF THE DIFFUSION COEFFICIENT OF PURE ALUMINUM 67-12 M14-83016
A COMPUTER ANALYSIS OF GAS-METAL DIFFUSION 67-12 M14-83070
SELF-DIFFUSION COEFFICIENT OF URANIUM IN URANIUM MONOCARBIDE 67-12 M14-83157
SELF-DIFFUSION OF URANIUM IN URANIUM DIOXIDE--ROLE OF THE DEVIATION FROM STOICHIOMETRY AND OF GRAIN JOINTS 67-12 M14-83198
IONIC DIFFUSION AT THE ALUMINUM-ALUMINUM OCIDE INTERFACE 67-12 M14-83259
EFFECT OF DISLOCATIONS ON THE DIFFUSION OF SOME ELEMENTS OF THE 3 AND 5 GROUPS OF THE PERIODIC TABLE IN GERMANIUM 67-12 M14-83315
STUDY OF THE EFFECT OF ULTRASONIC VIBRATIONS ON THE DIFFUSION OF PHOSPHORUS AND CARBON IN IRON 67-12 M14-83409
THE PRINCIPLE OF HEAT RESISTANT ALLOYING 67-12 M17-81832
ABSORPTION OF HYDROGEN BY STEEL DURING PICKLING AND ELECTROPLATING 67-12 M17-82427

DIFFUSION, ALLOYING EFFECTS
THE SOLUBILITY AND DIFFUSION OF HYDROGEN IN IRON ALLOYS 67-07 M14-72684
SELF-DIFFUSION OF NIOBIUM IN CERTAIN NB-W ALLOYS 67-08 M14-75877
EFFECTS OF CHROMIUM AND TUNGSTEN ON THE DIFFUSION AND THERMODYNAMIC ACTIVITY OF CARBON IN IRON ALLOYS 67-10 M14-78352
SOME NONEQUILIBRIUM EXPERIMENTS ON THE HYDROGEN PERMEATION AND DIFFUSION CHARACTERISTICS OF A 75 PD-25 AG ALLOY 67-10 M14-79604
INFLUENCE OF CONCENTRATION OF ALLOYING COMPONENTS IN AL-ZN-MG ALLOYS ON THE GUINIER-PRESTON ZONE COMPOSITION 67-11 M14-80746
THE EFFECT OF PHOSPHORUS ON THE NITROGEN SOLUBILITY AND DIFFUSIVITY IN ALPHA IRON 67-12 M14-82714

DIFFUSION, ANISOTROPY
STRUCTURAL DEPENDENCE OF THE TRACER-LEVEL DIFFUSION OF THORIUM IN PYROLYTIC CARBONS 67-12 M14-82370
SURFACE SELF-DIFFUSION OF GOLD. PT. 2. REAL AND APPARENT ANISOTROPY OF THE SURFACE SELF-DIFFUSION COEFFICIENT 67-12 M14-82852

DIFFUSION, COMPOSITION EFFECTS
ON GRAIN BOUNDARY SELF-DIFFUSION OF LEAD. PT. 2. EFFECT OF SOLUTES 67-01 M14-58465
DIFFUSION OF SILVER IN MOLTEN LEAD-TIN ALLOYS 67-03 M14-65847
DIFFUSION OF SILVER IN MOLTEN LEAD-BISMUTH AND TIN-BISMUTH ALLOYS 67-03 M14-65848
SELF-DIFFUSION OF ANTIMONY IN SB-SN AND SB-PB LIQUID ALLOYS 67-04 M14-67389
DIFFUSION OF NICKEL IN BINARY ALLOYS OF IRON WITH NICKEL, MANGANESE AND CHROMIUM 67-08 M14-75578
EFFECT OF HYDROGEN ON CARBON DIFFUSION IN CHROMIUM 67-09 M14-77776

DIFFUSION, HEATING EFFECTS
SURFACE DIFFUSION AND MOVEMENT OF BUBBLES OF INERT GASES IN COPPER 67-02 M14-58929
EFFECT OF HEATING RATE ON THE PROPORTION OF VOLUMETRIC AND BOUNDARY DIFFUSION OF CHROMIUM IN IRON 67-05 M14-69662

DIFFUSION

THE PROCESS OF ESTABLISHING ORDER DURING ISOTHERMAL ANNEALS IN NI-SI --7 AT.PER CENT SI-- ALLOY 67-11 M14-80737
HEAT TREATMENT OF INSB CRYSTALS WITH DIFFERENT DISLOCATION DENSITIES 67-11 M15-80237
DIFFUSION, IMPURITY EFFECTS
THE POSITION ENERGY AND ACTIVATION ENERGY OF DIFFUSION OF INTERSTITIAL IMPURITIES 67-08 M14-75077
FORMATION OF DISLOCATION NETWORKS IN GALLIUM SINGLE CRYSTALS 67-09 M13-77427
DIFFUSION, PRESSURE EFFECTS
THE PRESSURE RELATIONSHIP BETWEEN THE KIRKENDALL EFFECT AND THE SELF-DIFFUSION IN A PB-TL SYSTEM 67-07 M14-72450
EFFECT OF PRESSURE ON THE DIFFUSION OF FE IN TI AND TI PLUS 10 PER CENT FE 67-08 M14-75225
DIFFUSION, RADIATION EFFECTS
EFFECT OF ALPHA BOMBARDMENT ON THE DIFFUSION OF LEAD IN SILVER 67-02 M14-58951
THE EFFECT OF NEUTRON IRRADIATION ON THE THERMAL STABILITY OF CEMENTITE IN WHITE CAST IRON 67-02 M14-59909
RADIATION EFFECTS IN URANIUM 67-04 M14-67322
RADIATION DAMAGE IN SOLIDS 67-04 M16-67301
REDISTRIBUTION OF IMPURITIES IN METALS DURING IRRADIATION AND RECOVERY 67-04 M16-67388
NEON DIFFUSION IN SILVER 67-10 M14-79597
VARIATION OF ATOMIC MOBILITY IN METALS AT ROOM TEMPERATURE UNDER THE EFFECT OF IONIZING RADIATIONS 67-12 M16-83358
DIFFUSION, RADIOACTIVE TRACERS
INTER-GRANULAR ELECTRON TRANSPORT OF SILVER IN GOLD 67-01 M14-57366
DIFFUSION, STRESS EFFECTS
STRESS-ENHANCED DIFFUSION IN COPPER-TELLURIUM COUPLES 67-03 M14-65088
DIFFUSION, TEMPERATURE EFFECTS
SELF-DIFFUSION OF NI IN AUSTENITE OF NICKEL STEELS 67-02 M14-59117
CATION-SELF-DIFFUSION AND ELECTRICAL CONDUCTIVITY IN POLYCRYSTALLINE BERYLLIUM OXIDE 67-02 M14-61835
EXAMINATION OF THE DIFFUSION OF BERYLLIUM IN MAGNESIUM BY LOCAL SPECTRAL ANALYSIS 67-05 M14-69621
SELF-DIFFUSION AND ELASTIC CONSTANTS IN THE ANOMALOUS BCC METALS 67-06 M14-70427
SELF-DIFFUSION OF CALCIUM IN SINGLE CRYSTAL CALCIUM OXIDE 67-07 M14-73636
ELECTROTRANSPORT AND EFFECTIVE SELF-DIFFUSION IN PURE LIQUID GALLIUM METAL 67-07 M15-72838
OXYGEN IN SILVER 67-08 M14-75627
INVESTIGATION OF THE KINETICS OF THE SOLUBILITY OF HYDROGEN IN FE, NI, CO AND CU 67-08 M14-75662
THE DIFFUSION OF CARBON IN LIQUID FE-C-SI AND FE-C-S ALLOYS 67-08 M14-75663
DIFFUSION OF HYDROGEN IN ALPHA-IRON AT ABOUT 120 K 67-09 M14-77934
THE DIFFUSION OF CARBON IN NICKEL ABOVE AND BELOW THE CURIE TEMPERATURE 67-12 M14-82969
DIFFUSION ANNEALING
REMOVAL OF HYDROGEN FROM SMALL FORGINGS 67-08 M10-74354
VACANCY-LOOP ANNEALING IN HEXAGONAL AND CUBIC LATTICES 67-08 M14-76209
STRUCTURE OF THE TRANSITION ZONE IN BIMETAL SHEETS OF KH18N10T STAINLESS STEEL - AMG6 ALUMINUM ALLOY 67-09 M12-77411
RECIPROCAL DIFFUSION OF NIOBIUM AND METALS OF THE IVA, VA, VIA GROUPS 67-10 M14-79237
DIFFUSION BONDING
SEE DIFFUSION WELDING
DIFFUSION COATING /PROCESS/
SEE ALSO CALORIZING
CHROMIZING
IHRIGIZING
SILICONIZING /COATING/
METALLIC CEMENTATION 67-01 M12-58432
PROTECTIVE DIFFUSION COATING OF NICKEL ALLOYS 67-01 M18-58711
CONDITIONS OF PREPARATION OF CHROMIZED IRON POWDER BY THE METHOD OF DIFFUSIONAL SATURATION FROM SOLID CHROMIUM-CONTAINING PACKING MATERIALS. PT. 1 67-02 M09-62120
PILOT LINE SUCCESS INDICATES FEASIBILITY OF NEW TYPE NICKEL COATING SYSTEM 67-02 M12-60239
PLASMA AND DIFFUSION COATINGS ON GRAPHITE 67-02 M12-61630
NICKEL-COATED STEEL STRIP 67-03 M12-65667
CARBON TOOL STEEL AND CHROMIUM-NICKEL STRUCTURAL STEEL COATED WITH MOLYBDENUM BY DIFFUSION 67-04 M12-66023
PORE-FREE NICKEL COATING OF STEEL 67-04 M12-67072
CONTACT DIFFUSION INTERACTION BETWEEN MATERIALS AND CLADDINGS 67-04 M12-67863
THERMODIFFUSION INTERACTION OF TANTALUM WITH BORON CARBIDE POWDER IN A VACUUM 67-04 M14-67045
NB MICROWIRE FOR SUPERCONDUCTING MATERIALS 67-05 M16-68237
INVESTIGATION OF THE QUALITY OF ADHERENCE OF SINTERED POWDER TO THE SURFACE OF A PART 67-06 M09-71881
SPOT WELDING OF ALUMINUM TO ALUMINUM-PLATED STEEL 67-06 M11-71654
DIFFUSION COATING OF METALS INTO IRON DURING SINTERING 67-06 M12-71295
REFRACTORY METALS PROTECTION 67-06 M12-71318
METALLIC DIFFUSION PROCESSES. CHROMIZING 67-06 M12-71907
ZINC AND ALUMINIUM DIFFUSION COATINGS 67-06 M12-72184
COMPOSITION AND STRUCTURE OF NICKEL LAYERS, CONDENSED ONTO NIOBIUM 67-06 M12-72379
SOLUBILITY OF RARE EARTH METALS IN IRON 67-06 M14-69985
ELIMINATION OF NITROGEN FROM LOW-CARBON STEEL SHEET BY AN ALUMINUM DIFFUSION TREATMENT 67-07 M12-72552
STRUCTURE AND CONSTITUTION OF THE TIN-PLATE ALLOY LAYER 67-07 M12-73326
GALVANOTHERMAL METHOD FOR PRODUCTION OF FE-NI-CR COATINGS 67-07 M12-73657
RESIDUAL STRESSES IN DIFFUSION COATED NI ALLOYS 67-07 M12-74178
BORON-BASE DIFFUSION COATINGS FOR NICKEL-CHROMIUM ALLOYS 67-07 M12-74186
USE OF DIFFUSION ZINC PLATING IN TUBE INDUSTRY 67-07 M12-74187
PROTECTION OF COPPER BY DIFFUSION COATING WITH ALUMINUM 67-07 M12-74190
DIFFUSION OF ALKALI METALS IN MOLYBDENUM AND COLUMBIUM 67-07 M14-74189
SOME PROMISING PROCESSES TO PROTECT SINTERED IRON AND STEEL AGAINST CORROSION 67-07 M18-73230
SATURATION WITH BERYLLIUM BY DIFFUSION 67-08 M12-76020
DIFFUSION COATINGS IMPROVE SURFACE PROPERTIES 67-09 M12-76363
MECHANICAL PROPERTIES OF CHROMIUM DIFFUSION COATINGS 67-09 M12-76435
METALLIC COATINGS SOLVE ENVIRONMENTAL PROBLEMS 67-09 M12-76469
REGULARITIES IN COMPLEX DIFFUSION COATING OF ALLOYS 67-09 M12-77409
DIFFUSION COATING OF ZINC ON SINTERED IRON PARTS AND ATMOSPHERIC CORROSION RESISTANCE OF THE COATED PRODUCTS 67-09 M12-77812
METALLIDING TAILOR-ALLOYS METAL SURFACES 67-09 M12-78141
INFLUENCE OF DIFFUSION CHROMIZING ON SOME PHYSICAL AND MECHANICAL PROPERTIES OF CARBON STEEL 67-09 M17-76434
SPOT WELDING ALUMINIUM TO ALITISED STEEL 67-10 M11-79622
BETHLEHEMS SHEET CHROMIZING PROCESS 67-10 M12-78471
METALLIDING--NEW SYSTEM FOR SURFACE COATING 67-10 M12-78880
THE DEVELOPMENT AND TESTING OF A NEW CR PLATING PROCESS --GASINCHROMING-- USING GAS, FOR CONSTRUCTION PARTS AND SMALL CONNECTING ELEMENTS 67-11 M12-80101
STUDIES ON CARBIDES OF TITANIUM GROUP. PT. 1. FORMATION OF TITANIUM CARBIDE FILM 67-11 M12-80505
MYRIAD NEW SURFACE ALLOYS VIA ELECTROLYSIS 67-11 M12-80790
IMPROVING FRICTIONAL BEHAVIOR WITH SURFACE TREATMENTS REQUIRING HEAT 67-11 M12-80902
THERMAL DIFFUSIONAL SILICONIZING AND CHROMIUM-SILICONIZING OF ZHS6-K ALLOY 67-11 M12-81665
THE FATIGUE STRENGTH OF CARBON STEELS, DIFFUSION CHROMIUM-PLATED UNDER VARIOUS CONDITIONS 67-11 M17-80589
ELECTROLYTIC METALLIDING 67-12 M12-82074

OXIDATION RESISTANT COATINGS FOR REFRACTORY METALS IN AIRCRAFT GAS TURBINE ENGINES
67-12 M12-82078
CHROMIZING TURNS PINK TO REDUCE WEAR
67-12 M12-82399
THE DIFFUSIONAL BERYLLIZING OF CERTAIN TECHNICAL MATERIALS
67-12 M12-82482
OXIDATION RESISTANT METALLIC COATINGS
67-12 M12-82608
PILOT LINE SUCCESS INDICATES FEASIBILITY OF NEW DIFFUSION-BONDING SYSTEM FOR NICKEL COATING OF STEEL
67-12 M12-82881
PROTECTIVE COATINGS FOR REFRACTORY METALS
67-12 M12-82927
CORROSION PROPERTIES OF COMBINATION COATINGS
67-12 M18-81721

DIFFUSION COATINGS
NICKEL SOUPS UP STRIP STEEL 67-01 M12-57433
STUDY OF COMPATIBILITY IN THE SYSTEMS ZIRCALOY-2/ALUMINUM, ZIRCALOY-2/COPPER AND ZIRCALOY-2/NICKEL
67-02 M14-58923
SURFACE PROTECTION BY METAL DIFFUSION
67-03 M18-65706
CARBON TOOL STEEL AND CHROMIUM-NICKEL STRUCTURAL STEEL COATED WITH MOLYBDENUM BY DIFFUSION
67-04 M12-66023
PORE-FREE NICKEL COATING OF STEEL
67-04 M12-67072
THE OXIDATION OF CHROMIUM DIFFUSION COATINGS ON IRON-- CHROMIUM VOLATILITY AND EXPERIMENTAL TECHNIQUES
67-05 M12-68639
THE RESISTANCE OF TITANATED CARBON STEEL TO EROSION IN WATER
67-06 M12-71117
DIFFUSION COATING OF METALS INTO IRON DURING SINTERING
67-06 M12-71295
DIFFUSION METHODS FOR THE PROTECTION OF METALLIC SURFACES
67-06 M12-72158
CORRELATION OF PHYSICO-MECHANICAL PROPERTIES OF DIFFUSIVE COATINGS WITH THEIR ELECTRONIC STRUCTURE
67-07 M12-72512
NEW CHROMIZING AND CHROMIUM-ALUMINIZING PROCESSES
67-08 M12-75609

DIFFUSION COATINGS, CORROSION
NATURE AND MECHANISM OF FORMATION OF OXIDE FILMS IN THE CHROMIUM-IRON-CARBON SYSTEM
67-04 M18-66578
EFFECT OF CALORIZING ON FATIGUE AND CORROSION FATIGUE OF 45 CARBON STEEL 67-05 M18-69005
BORON-BASE DIFFUSION COATINGS FOR NICKEL-CHROMIUM ALLOYS
67-07 M12-74186
PROTECTION OF COPPER BY DIFFUSION COATING WITH ALUMINUM
67-07 M12-74190
INFLUENCE OF DIFFUSION CHROMIZING ON FATIGUE AND CORROSION FATIGUE OF CARBON STEEL
67-07 M18-74183
DIFFUSION COATINGS IMPROVE SURFACE PROPERTIES
67-09 M12-76363
THE EFFECT OF ALUMINUM ADDITIONS TO CR-FE COATINGS ON THE PROPERTIES OF THE DIFFUSION COATINGS
67-12 M12-82854

DIFFUSION COATINGS, CRYSTAL LATTICES
INVESTIGATION OF STRUCTURE AND ORIENTATION OF BORIDE COATINGS DEPOSITED ON IRON
67-07 M14-74185

DIFFUSION COATINGS, MECHANICAL PROPERTIES
RESIDUAL STRESSES IN DIFFUSION COATED NI ALLOYS
67-07 M12-74178
PROPERTIES OF COMBINATION COATINGS AT HIGH TEMPERATURES
67-08 M12-74590
SOME PHYSICOMECHANICAL CHARACTERISTICS OF DIFFUSION-COPPER-PLATED CARBON STEEL
67-11 M17-80590
EFFECT OF LIQUID CALORIZING ON THE TENSILE PROPERTIES OF STEEL-ALUMINUM WELDED TUBE
67-11 M17-80591
CORRELATION OF THE PHYSICOMECHANICAL PROPERTIES AND ELECTRONIC STRUCTURE OF DIFFUSION COATINGS
67-11 M17-80898

DIFFUSION COATINGS, PHASE TRANSFORMATIONS
STRUCTURE AND CHEMICAL COMPOSITION OF CALORIZED LAYER DEPOSITED ON NI AND ITS ALLOYS
67-07 M14-74182

DIFFUSION COATINGS, SUPERCONDUCTIVITY
TRANSITION TEMPERATURE AND COMPOSITION OF THE SUPERCONDUCTING NB3SN-PHASE 67-05 M16-69092

DIFFUSION COATINGS, THERMAL PROPERTIES
EMISSIVITY OF MOLYBDENUM DISILICIDE COATINGS
67-06 M15-72039

DIFFUSION COEFFICIENT
SEE DIFFUSION

DIFFUSION COUPLES
SEE DIFFUSION

DIFFUSION LAYERS
SOME PROBLEMS CONNECTED WITH NB3SN COATINGS ON NB AS MATERIALS FOR SUPERMAGNET ELEMENTS
67-04 M12-66658
X-RAY DIFFRACTION BY MULTILAYERED THIN-FILM STRUCTURES AND THEIR DIFFUSION
67-12 M14-82377
THE OBSERVATION OF MARKERS DURING THE OXIDATION OF COLUMBIUM
67-12 M14-82749

DIFFUSION PLATING
DIFFUSION ON THE SURFACE OF STEEL PARTS
67-03 M12-65452

DIFFUSION RATE
RADIATION-ENHANCED DIFFUSION IN METALS
67-04 M14-67315

DIFFUSION RATE, TEMPERATURE EFFECTS
ANISOTROPIC DIFFUSION OF NICKEL IN ZINC STUDIED BY AN AUTORADIOGRAPHIC METHOD
67-08 M14-74667

DIFFUSION WELDING
DIFFUSION WELDING OF TITANIUM WITH STEEL THROUGH AN INTERLAYER OF VANADIUM 67-01 M11-58217
STUDY OF DIFFUSION IN NONSTATIONARY HEATING DURING DIFFUSION WELDING 67-01 M11-58267
CHARACTERISTICS OF PLASTIC DEFORMATION DURING WELDING WITHOUT FUSION 67-02 M11-59512
DIFFUSION BRAZING OF TITANIUM USING INTERMEDIATE ELECTRODEPOSITS 67-02 M11-59516
DIFFUSION WELDING IN CARBON DIOXIDE AND NITROGEN ATMOSPHERES 67-02 M11-60005
THE THERMODIFFUSION WELDING OF METAL COMPONENTS
67-02 M11-60190
AN ANALYTICAL AND EXPERIMENTAL STUDY OF DIFFUSION BONDING 67-02 M11-61580
DIFFUSION-BONDING OF FORMABLE STRUCTURAL PANELS BY COMPOSITE ROLLING 67-02 M11-61841
A PRACTICAL GUIDE TO DIFFUSION BONDING
67-02 M12-59041
PILOT LINE SUCCESS INDICATES FEASIBILITY OF NEW TYPE NICKEL COATING SYSTEM 67-02 M12-60239
A METHOD FOR MANUFACTURING OF LARGE-SIZE POROUS TUBES 67-04 M09-66268
ELECTRON MECHANISM OF DIFFUSION WELDING
67-04 M11-66432
CHARACTERISTICS OF PLASTIC DEFORMATION IN NON-FUSION WELDING 67-04 M11-66461
DIFFUSION TAKING PLACE DURING THE NON-STEADY HEATING IN DIFFUSION WELDING 67-04 M11-67348
SOLID-STATE WELDING OF ALUMINUM
67-04 M11-67628
DIFFUSION WELDING OF DISSIMILAR METALS
67-04 M11-67629
DIFFUSION BRAZING OF TITANIUM WITH INTERMEDIATE ELECTROLYTIC COATINGS 67-04 M12-66465
COMPOSITE ROLLING OF STRUCTURAL PANELS
67-05 M11-68444
DIFFUSION BONDING BERYLLIUM, MOLYBDENUM AND TUNGSTEN 67-05 M11-68675
WELDING CARBON-GRAPHITE MATERIALS
67-05 M11-69411
STRENGTH AND STRUCTURE OF AL-CU BONDED JOINTS
67-05 M17-69541
DIFFUSION JOINING OF MAGNETIC ALLOYS IN A VACUUM
67-06 M11-70106
THE BIG SQUEEZE 67-06 M11-71745
DIFFUSION BONDING OF TITANIUM TO STEEL
67-06 M12-71727
ADVANCED METAL COMPOSITES--A STATUS REPORT
67-07 M09-73720
THE ELECTRON THEORY OF DIFFUSION WELDING
67-07 M11-72691
THE WELDING OF SAP 67-07 M11-73468
DIFFUSION BONDING TECHNIQUES CHANGING AEROSPACE INDUSTRY 67-07 M11-73695
JOINING TECHNIQUES FOR SAP--CLAD NUCLEAR FUEL ELEMENTS 67-07 M11-73825
DIFFUSION BRAZING IN STAINLESS STEEL FUEL ELEMENTS FOR WATER COOLED POWER REACTORS
67-07 M11-73900
DIFFUSION WELDING TITANIUM ALLOYS WITH COPPER ALLOYS 67-08 M11-75419
STUDY OF DIFFUSION JOINTS OF SOME HETEROGENEOUS METALS BY X-RAY DIFFRACTION ANALYSIS
67-09 M11-77605
DIFFUSION WELDING OF COMMERCIALLY PURE TITANIUM
67-09 M11-78145

DIFFUSION WELDING
METHOD OF PRODUCING LARGE POROUS PIPES 67-10 M09-79000
WELDING CERAMIC MATERIALS TO METALS 67-10 M11-78404
THE WELDING OF GRAPHITIC CARBON SUBSTANCES 67-10 M11-78515
PLATING STEEL TUBES WITH ZIRCALOY-2 TUBES BY SWAGING 67-11 M08-80384
THE DIFFUSION WELDING OF TITANIUM ALLOYS TO COPPER ALLOYS 67-12 M11-82040
METALS JOINING 67-12 M11-82272
DIFFUSION WELDING AND BRAZING OF TITANIUM 6AL-4V PROCESS DEVELOPMENT 67-12 M11-82819
FORMING OF LARGE PARTS BY DIFFUSION BONDING 67-12 M11-82836
EXPERIENCE IN DIFFUSION WELDING OF CERMETS 67-12 M11-83565
DIFFUSION WELDING, ALLOYING EFFECTS
ALLOY EFFECTS IN THE LOW-PRESSURE DIFFUSION BONDING OF SUPERALLOYS 67-09 M11-77954
DIFFUSIVITY
SEE ALSO THERMAL DIFFUSIVITY
INFLUENCE OF DIFFERENT ACTIVE FACTORS ON THE APPEARANCE OF ANODIZED SHEET, SUSCEPTIBILITY OF THE CAUSES 67-02 M15-60557
DIFFUSION OF CADMIUM IN INDIUM ARSENIDE 67-03 M14-65457
DIFFUSION ANALYSIS OF THE OBSERVED TIME LAG OF THE THERMAL COEFFICIENT OF RESISTIVITY OF GERMANIUM 67-03 M16-65886
DIFFUSIVITY AND SOLUBILITY LIMIT OF COPPER IN ALPHA AND GAMMA IRON 67-04 M14-67267
UO2 THERMAL DIFFUSIVITY MEASUREMENTS WITH A MODULATED ELECTRON BEAM TECHNIQUE 67-05 M15-68650
DIFFUSION OF COPPER IN GOLD 67-05 M15-69338
DIFFUSION OF CARBON IN TANTALUM 67-07 M14-72524
SOLUTE DIFFUSION IN PLASTICALLY DEFORMED SILICON CRYSTALS 67-07 M14-72885
DIFFUSION OF COBALT IN CU3AU ALLOY 67-07 M14-73313
DIFFUSION OF THORIUM, PROTACTINIUM AND URANIUM IN FACE-CENTERED CUBIC THORIUM 67-07 M14-74235
HYDROGEN IN BERYLLIUM 67-07 M14-74242
CONTRIBUTION TO THE METALLURGY OF STRUCTURAL MODIFICATIONS IN AL-SI ALLOYS 67-09 M14-77008
ESTIMATION OF DIFFUSIVITY COEFFICIENTS FOR HYDROGEN IN FERROUS MATERIALS 67-09 M14-78153
BERYLLIUM OXIDE 67-11 M16-80468
KINETICS OF THE SOLUTION OF NIOBIUM IN IRON-CARBON ALLOYS 67-12 M14-82403
THE DIFFUSIVITY OF OXYGEN IN LIQUID SILVER 67-12 M14-82984
DIFFUSIVITY, ALLOYING EFFECTS
INFLUENCE OF RARE EARTH ELEMENTS ON THE CRYSTALLIZATION OF CARBON STEEL 67-05 M13-68378
DIFFUSIVITY, IMPURITY EFFECTS
SELF-DIFFUSION IN TELLURIUM. PT. 1. ANISOTROPY AND IMPURITY EFFECT 67-07 M14-73934
DIFFUSIVITY, PRESSURE EFFECTS
DIFFUSION OF THE CHALCOGENS IN THE 2-6 COMPOUNDS 67-09 M14-77174
DIFFUSIVITY, TEMPERATURE EFFECTS
DIFFUSION IN THE PLUTONIUM-URANIUM SYSTEM 67-02 M14-60747
DIFFUSION OF OXYGEN AND NITROGEN IN LIQUID IRON 67-06 M14-69924
DIGESTION
THE GLADSTONE ALUMINA PLANT STORY 67-04 M02-67256
DIGITAL COMPUTERS
APPLICATION OF DIGITAL COMPUTER TO DESIGN AND STRESS ANALYSIS OF HIGH PRESSURE VESSELS 67-04 M17-67213
A NEW DIGITAL WIDTH GAGE FOR THE METALS INDUSTRY 67-06 M19-71001
ANALYSIS BASED ON CHEMICAL REACTION ENGINEERING FOR THE UPPER ZONE OF BLAST FURNACES ABOVE THE TUYERE LEVEL 67-07 M04-72520
USE OF DIGITAL COMPUTERS IN OXYGEN STEEL PLANTS 67-07 M04-72903
BLAST FURNACE CHARGING 67-07 M04-73327
SCIENCE FOR ELECTROPLATERS. PT. 115. ALLOYS 67-07 M12-73629
WORK ON KALDO PROCESS CONTROL AT DOMNARVET 67-08 M04-75516
INDUSTRIAL COMPUTER CONTROL OF ROLLING MILLS 67-08 M07-75795
FINDING A PRACTICAL METHOD FOR CALCULATING ROLL FORCE IN WIDE REVERSING COLD MILLS 67-09 M07-76670
DIGITAL COMPUTERS, METAL WORKING
SAR DIGITAL PROGRAM COMPUTER OF STRIP THICKNESS IN CONTINUOUS SHEET MILLS 67-10 M07-79917
COMPUTER FOR AUTOMATIC CONTROL OF SCREW PERFORMANCE HOUSING IN MEDIUM SECTION 2350 MILLS 67-10 M07-79919
DILATOMETERS
THE ROLE OF THE LABORATORY IN HEAT TREATING 67-02 M10-59804
THE MAGNETOSTRICTION OF NICKEL 67-03 M15-65189
INVESTIGATION OF SOLID PHASE REACTIONS WITH THE MICROMETRIC DILATOMETER 67-04 M09-66265
DIMENSIONAL CHANGES IN THE ALPHA-GAMMA TRANSFORMATION OF IRON 67-04 M15-67413
DILATOMETRIC METHOD OF INVESTIGATING FERRITE FORMATION IN PIG IRON CONTAINING SPHEROIDAL GRAPHITE 67-06 M14-70200
THEORETICAL ANALYSIS ON THE DILATOMETER CURVES OF CAST IRON 67-06 M14-70585
INVESTIGATION OF SOLID-PHASE REACTIONS BY MEANS OF A MICROMETRIC DILATOMETER 67-10 M09-78997
A DILATOMETRIC STUDY OF STRUCTURAL EVOLUTION OF MARAGING STEEL CONTAINING 18 PER CENT NI DURING TEMPERING 67-10 M14-79894
DILATOMETERS, PHASE TRANSFORMATIONS
THE RELATIONSHIP BETWEEN THE STRUCTURE OF ZIRCALOY 2 AND ITS CORROSION RESISTANCE TO STEAM UNDER PRESSURE AT 400 C 67-04 M14-66674
DILATOMETRY
SEE DILATOMETERS
DIMENSIONAL ANALYSIS
THE DILATOMETRIC EFFECT ON THE ALPHA-GAMMA TRANSFORMATION IN A TEXTURED IRON-NICKEL ALLOY 67-05 M14-68838
IRREVERSIBLE CHANGE IN SIZE --AFTER-EFFECT-- OF SPECIMENS HEATED AFTER PLASTIC DEFORMATION 67-05 M15-68841
EXPERIENCE WITH A RADIOMETRIC THICKNESS GAGE FOR PLATES IN THE OLBERNHAU SHEET ROLLING MILL 67-08 M19-74450
CALCULATING THE VOLUME OF CRYSTALLISED METAL 67-08 M19-74551
DETERMINATION OF THE THICKNESS OF AG, CD AND SN USING FLUORESCENT KALPHA X-RAYS INDUCED BY TM 170 67-12 M19-83256
A NONCONTACTING DIGITAL LENGTH/WIDTH GAGE FOR HOT SLABS 67-12 M19-83593
DIMENSIONAL MEASUREMENTS
SEE ALSO SIEVE ANALYSIS
SIZE DETERMINATION
THE USE OF THE ELECTRON BEAM THICKNESS GAGE ON MULTI-LAYERED COATINGS 67-01 M19-57541
NON-DESTRUCTIVE TESTING OF THIN COATINGS 67-01 M19-58581
AUTOMATIC GAGE CONTROL --AGC-- OF HOT STRIP MILL AT SAKAI STEEL WORKS 67-02 M07-58939
THE THERMAL GAP IN MICROINCH MEASUREMENT AND MACHINING 67-06 M08-69957
A NEW DIGITAL WIDTH GAGE FOR THE METALS INDUSTRY 67-06 M19-71001
WALL THICKNESS MEASUREMENTS BY NONDESTRUCTIVE METHODS IN THE PRODUCTION OF STEEL TUBES 67-07 M19-74110
COATING THICKNESS DETERMINATIONS OF TIN PLATE BY X-RAY METHODS 67-08 M12-75586
RADIOISOTOPE X-RAY FLUORESCENCE AND RADIATION SCATTER TECHNIQUES IN MINING AND METALLURGY 67-08 M19-74669
NO CONTACT STRIP THICKNESS MEASUREMENT WITH RADIOISOTOPES 67-08 M19-75765
THICKNESS MEASUREMENT OF STEEL PLATE WITH GAMMA-RAY THICKNESS GAGE 67-08 M19-75806
MEASURING, INDICATING AND RECORDING IN HEAVY AND MEDIUM PLATE ROLLING MILLS 67-08 M19-76288
THICKNESS GAGING--WHERE THE CUSTOMERS MIKE IS ALWAYS RIGHT 67-09 M19-76497
DETERMINATION OF THE THICKNESS OF ALUMINUM ON SILICON BY X-RAY FLUORESCENCE 67-09 M19-76628
MEASUREMENT OF FILM THICKNESS USING INFRARED INTERFERENCE 67-10 M19-79999
ISOTOPES AND NUCLEAR RADIATION FOR CONTROL AND

AUTOMATION OF FERROUS METALLURGICAL PROCESSES
67-11 M04-81606
DIMENSIONAL MEASUREMENTS, AUTOMATIC CONTROL
DETERMINING THE PARAMETERS OF A DEVICE USED FOR AUTOMATIC STRIP THICKNESS CONTROL IN THE FINISHING STANDS OF CONTINUOUS HOT ROLLING MILLS
67-09 M07-76977
USE OF ISOTOPIC DEVICES FOR MEASURING THE LENGTH OF ROLLED PRODUCTS IN THE ROLLING PROCESS
67-10 M07-79864
DIMENSIONAL MEASUREMENTS, AUTOMATION
AGC.. PUTTING THICKNESS MEASUREMENT TO WORK
67-09 M19-76496
SAR DIGITAL PROGRAM COMPUTER OF STRIP THICKNESS IN CONTINUOUS SHEET MILLS 67-10 M07-79917
AUTOMATIC GAGING OF STRIP IN A CONTINUOUS HOT 2500 MILL 67-10 M07-79918
DIMENSIONAL STABILITY
DIMENSIONAL CHANGES IN HEAT TREATING OPERATIONS AND THEIR PREVENTION BY PROPER DESIGN WITH EMPHASIS ON SIMPLE HEAT TREATING METHODS
67-01 M10-58722
CREEP DUCTILITY AND DIMENSIONAL INSTABILITY OF NICKEL AT 500 AND 525 C 67-01 M17-58458
EFFECT OF THE CERMET GEOMETRICAL FACTOR ON THE VALUE OF ELASTIC AFTERACTION 67-02 M09-59603
DEFORMATION OF TOOL STEEL DURING HEAT TREATMENT
67-02 M10-58863
EFFECT OF HEAT TREATMENT ON DEFORMATION AND DIMENSIONAL STABILITY OF 14109 BEARING STEEL
67-02 M10-58985
DISTORTION OF PARTS DURING HEAT TREATMENT
67-02 M10-59805
THERMOCYCLIC STABILIZING TREATMENT OF SILUMIN ALALLOY 67-02 M10-61231
THERMAL-DILATION BEHAVIOR OF TITANIUM ALLOYS DURING REPEATED CYCLING THROUGH THE ALPHA-BETA TRANSFORMATION 67-02 M14-59432
EFFECT OF CERTAIN CONDITIONS OF HEAT TREATMENT ON THE CONSTANCE OF DIMENSIONS OF CSN 424400 AND 424331 ALUMINUM ALLOYS 67-02 M17-58988
VIBRATION TREATMENT AND DIMENSIONAL STABILIZATION OF CASTINGS 67-02 M17-61017
INVESTIGATION OF SOLID PHASE REACTIONS WITH THE MICROMETRIC DILATOMETER 67-04 M09-66265
STABILIZATION OF SILUMIN BY THERMAL CYCLING
67-04 M10-68092
MAINTENANCE OF CONSTANT THERMAL CONDITIONS DURING ARGON ARC WELDING OF PIPES 67-04 M11-67987
AIRCRAFT JET TURBINE BLADES INVESTIGATED BY THE INTERNAL FRICTION METHOD 67-04 M15-67858
STUDY OF THE DURABILITY OF BUILT-UP METAL DURING CONTACT-IMPACT LOADING 67-04 M17-66570
CHANGES IN THE DIMENSIONS OF INGOT MOLDS WHILE IN USE 67-04 M17-67867
INVESTIGATION OF CREEP AT VARIABLE TEMPERATURES
67-05 M17-69612
THE TECHNOLOGY OF HIGH-SPEED TOOL STEELS. PT. 2
67-06 M10-72055
DIMENSIONAL STABILITY AND THERMAL EXPANSION CHARACTERISTICS OF BERYLLIUM 67-07 M15-73756
CHANGE IN THE SHAPE OF METALS UNDER THE COMBINED ACTION OF THERMAL CYCLES AND EXTERNAL LOADS
67-08 M15-74879
RESEARCH INTO THE DENSITY OF DEFORMED METALS AND ALLOYS 67-08 M17-75441
STABILITY OF THE STRUCTURE AND PROPERTIES OF 125H1M1F STEEL PIPES 67-08 M17-76016
INFLUENCE OF THE GEOMETRICAL FACTOR OF SINTERED PARTS ON THE MAGNITUDE OF THEIR ELASTIC AFTEREFFECT 67-09 M09-76921
MODERN MACHINING METHODS.. A CHALLENGE TO FOUNDRY TECHNIQUES 67-10 M06-79241
TOUGHER GEARS, LESS DISTORTION, RESULT OF NEW HEAT TREATMENT 67-10 M10-78578
PRECISION COMPONENTS DEMAND SPECIALIZED HEAT TREATMENT 67-11 M10-81133
THE QUESTION OF THE CHANGES OF THE SOLUTION AND TRANSFORMATION BEHAVIOR OF ROLLER BEARING STEEL, 100 CR 6, AFTER REMELTING WITH THE ESU PROCESS WITH CONSIDERATION FOR THE FABRICATION OF SCIENTIFIC APPARATUS 67-11 M14-80215
STUDY OF THE MECHANICAL AND THERMAL PROPERTIES OF URANIUM ALLOYS WITH SMALL ADDITIONS
67-12 M17-83503
DIMENSIONAL STABILITY, HEATING EFFECTS
EFFECT OF THERMAL CYCLING ON DIMENSIONAL STABILITY OF D16 AL ALLOY 67-02 M15-59769
IRREVERSIBLE CHANGE IN SIZE --AFTER-EFFECT-- OF SPECIMENS HEATED AFTER PLASTIC DEFORMATION
67-05 M15-68841
RESIDUAL STRESS AND ANGULAR DISTRIBUTION OF TOOL STEEL 67-07 M10-73795
THE EFFECT OF THERMAL CYCLES ON THE STABILITY OF THE SIZES OF THE D16 ALLOY 67-08 M15-76127
INVESTIGATION OF WARPAGE IN CAST IRON MACHINE STANDS 67-12 M10-81907
DIMENSIONAL STABILITY, RADIATION EFFECTS
IRRADIATION BEHAVIOR OF URANIUM FUEL TUBES IN A PRESSURIZED HEAVY-WATER REACTOR
67-06 M16-71055
DIMENSIONAL STABILITY, WELDING EFFECTS
CROSSWISE CONTRACTION OF SHEET STRUCTURES MADE OF ALUMINUM ALLOYS 67-04 M11-66805
THE TRANSVERSE CONTRACTION OF STRUCTURES MADE OF ALUMINIUM ALLOY PLATE 67-08 M11-75909
DIMENSIONAL TOLERANCES
SHAPE IMPROVEMENT OF THIN STEEL STRIP BY TENSION LEVELLER 67-01 M07-58564
APPLICATION OF HOBBING TO THE MANUFACTURE OF METAL CUTTING DIES 67-01 M08-58674
TUBULAR QUARTZ ELEMENTS AND THEIR DIMENSIONING
67-01 M20-58234
CLOSER TOLERANCE ALUMINIUM STRIP JUSTIFIES ADVANCED MILL DESIGN 67-02 M07-61849
DESIGNING POWDER METALLURGY PARTS
67-02 M09-61112
IMPROVED REAMER REDUCES MACHINING TIME
67-03 M08-65482
THE MEASUREMENT OF SURFACE FINISH
67-03 M19-65148
ADVANCED ALUMINIUM ROLLING MILL
67-06 M07-70843
THE THERMAL GAP IN MICROINCH MEASUREMENT AND MACHINING 67-06 M08-69957
DIMENSIONAL ACCURACY OF CASTINGS
67-06 M19-70885
PROBLEMS OF THE MANUFACTURE OF MAGNETS FOR PARTICLE ACCELERATORS 67-06 M20-72127
STRIP THICKNESS REGULATION FOR REVERSING COLD ROLLING MILLS 67-07 M07-74021
LIQUID STREAMS DRILL HOLES IN TOUGH METALS
67-07 M08-73308
SINGLE-LAYER WHEEL CUTS CARBIDE
67-07 M08-74295
ISOSTATIC PRESSING OF POWDERED MATERIALS
67-07 M09-73860
NEW PRESS EXTRUDES BIG, CLOSE TOLERANCE SHAPES FOR OIL, CHEMICAL, POWER INDUSTRIES
67-08 M07-74731
HOT PRESS CERAMICS FOR HIGH STRENGTH, PRECISION
67-10 M05-78902
EFFECT OF THE DEFORMATION ON THE CROSS-SECTIONAL THICKNESS TOLERANCE OF MILD STEEL STRIP
67-10 M07-79813
CONTINUOUS GREY-IRON CASTING PRODUCES BETTER BARS AND SECTIONS 67-11 M04-80769
LARGE CAPACITY UNIVERSAL GRINDING MACHINE
67-11 M08-80350
CONTROL OF INTEGRATED FORGING SHOPS
67-12 M07-81926
TITANIUM CASTINGS FOR AIRFRAME STRUCTURAL APPLICATIONS 67-12 M20-82453
DIMENSIONS
SEE THICKNESS
DIODES
SEE ALSO JUNCTION DIODES
TUNNEL DIODES
LASER DIODES BY SOLUTION REGROWTH ON THE --111-- PLANE 67-03 M14-65896
GAAS BULK OSCILLATORS STIR MILLIMETER WAVES
67-09 M16-76641
IMPROVEMENT OF MINORITY CARRIER LIFETIME IN SILICON DIODES 67-11 M16-80839
CURRENT OSCILLATIONS IN CO-DOPED SI P-I-N STRUCTURES 67-12 M15-83014
DIODES, CRYSTAL GROWTH
NEW ASPECTS OF SOLUTION REGROWTH IN THE DEVICE TECHNOLOGY OF GALLIUM ARSENIDE
67-07 M16-72922
DIODES, DIFFUSION
COPPER DIFFUSED GALLIUM ARSENIDE P-N JUNCTIONS
67-04 M16-66119
DIODES, ELECTRICAL PROPERTIES
TRANSIENT PHENOMENA IN THE CAPACITANCE OF GAAS SCHOTTKY BARRIER DIODES 67-02 M16-60519
INVESTIGATION OF SI-TA2O5 SYSTEM PREPARED BY REACTIVE SPUTTERING 67-02 M16-60521

DIODES

IMPROVEMENT OF QUANTUM EFFICIENCY IN GALLIUM ARSENIDE ELECTROLUMINESCENT DIODES 67-10 M15-79121
TRAP LEVELS IN GALLIUM ARSENIDE 67-10 M15-79122
STRUCTURE AND ELECTRICAL PROPERTIES OF THIN OXIDE FILM DIODE WITH SPUTTERED TITANIUM BASE 67-11 M15-80824

DIODES, ETCHING
A SIMPLE METHOD OF PREPARING SILICON SPECIMENS 67-05 M13-69632

DIODES, FABRICATION
THE USE OF AIRBRASION IN THE CONSTRUCTION OF GUNN DIODES 67-07 M16-72926

DIODES, SEMICONDUCTORS
THE BEHAVIOR, IN TIME, OF CONTINUOUSLY OPERATED GAAS LASER DIODES 67-03 M16-65437

DIODES, SURFACE PROPERTIES
SURFACE EFFECTS OF RADIATION ON SEMICONDUCTOR DEVICES 67-04 M16-66140

DIOXIDES
SEE ALSO CARBON DIOXIDE
SILICA
SULFUR DIOXIDE
TITANIUM DIOXIDE

DIOXIDES, ELECTRICAL PROPERTIES
ELECTRICAL RESISTIVITY OF SINGLE CRYSTAL CRO2 67-03 M16-65649

DIP BRAZING
ALUMINUM DIP BRAZING 67-06 M11-70779
WELDS WERE NEVER FINER THAN THEY ARE AT GODDARD 67-08 M11-74440
ALUMINUM DIP BRAZING PROCEDURES 67-09 M11-77744

DIP CLADDING
SEE IMMERSION PLATING

DIP COATING
SEE IMMERSION COATING

DIP COATINGS
SEE HOT DIP COATINGS

DIP GALVANIZING
SEE GALVANIZING
HOT DIP COATING

DIP PLATING
SEE IMMERSION PLATING

DIPOLES
ADSORPTION OF OXYGEN ON ATOMICALLY CLEAN GERMANIUM SURFACES EXAMINED IN THE FIELD EMISSION MICROSCOPE 67-07 M16-73607
STRESS FIELDS AROUND THE EDGE DIPOLE IN CD, ZN AND MG ANISOTROPIC CRYSTALS 67-09 M13-77516

DIPPING
SEE HOT DIPPING

DIRECT ARC ELECTRIC FURNACES
SEE PLASMA ARC FURNACES

DIRECT CHILL CASTING
VERTICAL DIRECT CHILL CASTING OF INGOTS FOR WIRE APPLICATIONS 67-09 M03-76404

DIRECT CURRENT
EFFECT OF A DC FIELD ON THE LATTICE DIFFUSION OF SILVER-110 IN COPPER AND GOLD 67-01 M14-57575
TEMPERATURE AND MAGNETIC FIELD DEPENDENCES OF THE JOSEPHSON CURRENT IN THE JUNCTION WITH A VERY THIN FILM OF TIN 67-03 M16-65643

DIRECT POWER GENERATION
SEE ALSO THERMOELECTRIC POWER GENERATION
THERMOELECTRIC AND THERMOMAGNETIC EFFECTS AND APPLICATIONS 67-12 M01-82986

DIRECT POWER GENERATORS
SEE FUEL CELLS
MAGNETOHYDRODYNAMIC GENERATORS
SOLAR GENERATORS
THERMIONIC GENERATORS
THERMOELECTRIC GENERATORS

DIRECT QUENCHING
SEE SPRAY QUENCHING

DIRECT REDUCTION
PRODUCTION OF SPONGE IRON FROM LIMONITE ORE IN A FLUIDIZED BED 67-01 M02-57136
APPARATUS FOR DEOXIDIZING SINTERED ORE 67-01 M04-57678
RELATION BETWEEN THE RATE OF DIRECT REDUCTION AND TOP GAS RATIO 67-01 M04-57907
ON THE MECHANISMS AND KINETICS OF HYDROGEN REDUCTION OF ILMENITE ORE 67-02 M02-60153
PRODUCTION OF CESIUM SALTS 67-02 M02-61588
STUDY OF REDUCTION OF IRON OXIDE USING THE MAGNETIC METHOD 67-02 M02-62226
REYNOLDS EXPANDS PACIFIC NORTHWEST PRODUCTION 67-02 M03-61592
REDUCING PROPERTIES OF IRON AND THE BEHAVIOR OF SULFUR DURING THE PRODUCTION OF A SINGLE IRON ORE CHARGE 67-02 M04-59853
METHOD OF PRODUCING MOLTEN METAL FROM ORES OR CONCENTRATES 67-02 M04-61070
KINETICS OF REDUCTION OF FLUXED IRON ORE PELLETS WITH CO AND BLAST FURNACE GAS 67-02 M04-61202
HEAT FAST PROCESS UTILIZES STEEL MILL WASTE TO MAKE PRE-REDUCED PELLETS 67-02 M04-61640
MANUFACTURING OF IRON POWDER BY DIRECT REDUCTION WITH NATURAL GAS 67-02 M09-59611
REDUCTION OF FLUXED SINTER BY NATURAL GAS. PT. 2 67-03 M04-65952
REDUCTION OF IRON ORE IN FUEL-MELTING MATERIALS 67-04 M04-66610
ON THE DIRECT REDUCTION OF IRON OXIDES WITH METHANE IN DIFFERENT TECHNOLOGICAL VARIANTS 67-04 M04-68143
THE PRODUCTION OF IRON SPONGE 67-05 M04-68484
STUDY OF THE POSSIBILITIES OF CONTINUOUS STEELMAKING 67-05 M04-68727
STUDY OF THE REDUCTION OF IRON OXIDES USING THE MAGNETIC METHOD 67-06 M04-69964
REDUCTION OF IRON IN ORE AND ORE-CARBON GRANULES IN FLUIDIZED BED FURNACE IN STREAM OF NATURAL GAS 67-06 M04-69965
NEW LIFE FOR THE HYL PROCESS 67-06 M04-70486
DIRECT IRONMAKING PROCESSES.. A CHALLENGE TO THE BLAST FURNACE 67-06 M04-72008
REDUCTION OF A MIXTURE OF ORE AND COKE BY MEANS OF A HYDROGEN PLUS CARBON MONOXIDE PLUS NITROGEN MIXTURE 67-06 M04-72381
CARBON, SULFUR AND OXYGEN IMPURITIES IN IRON POWDER IN RELATION TO CONDITIONS OF REDUCTION BY SOLID CARBON 67-06 M09-69966
RESEARCHES INTO THE DIRECT REDUCTION OF IRON ORES WITH THE GASES FROM THE CONVERSION OF METHANE WITH STEAM 67-07 M01-72667
RESEARCH INTO THE DIRECT REDUCTION OF IRON ORES IN TILTING FURNACES USING REDUCING GASES PRODUCED BY CONVERSION OF METHANE WITH AIR 67-07 M04-72975
COMPARATIVE STUDY OF THE CHARACTERISTIC DATA AND ECONOMIC EFFICIENCY OF PRODUCING AND PROCESSING SPONGE IRON 67-08 M04-74684
COMPREHENSIVE REDUCTION OF A FLUXED SINTER BY MIXED GASES WITH HYDROGEN AND SOLID CARBOM 67-08 M04-74884
THEORETICAL CONSIDERATION ON BLAST FURNACE COKE RATE 67-08 M04-75152
THERMAL PROPERTIES OF BAUXITES FOR THE SOURCE MATERIALS OF DIRECT REDUCTION STUDIES ON THE PRODUCTION OF CRUDE ALUMINIUM ALLOY BY THE DIRECT REDUCTION OF ALUMINOUS ORES 67-09 M03-77250
ORE REDUCTION METHOD 67-09 M04-76709
DIRECT PRODUCTION OF MOLTEN METAL IN ROTARY TUBE FURNACES 67-09 M04-76816
OBTAINING IRON POWDER BY DIRECT REDUCTION WITH NATURAL GAS 67-09 M09-76932
ON THE MECHANISM AND KINETICS OF REDUCTION OF A MIXTURE OF IRON AND ZINC OXIDES BY CARBON MONOXIDE 67-10 M04-79830
REDUCTION OF DASHKESAN IRON ORE WITH HYDROGEN AND CARBON MONOXIDE AS THE MAIN COMPONENTS OF CONVERTED NATURAL GAS 67-10 M04-79846
OBTAINING METALLIZED PELLETS IN A ROTARY KILN 67-11 M04-81218
ROLE OF SLAG IN SPONGE IRON-MAKING 67-11 M04-81639
GO DIRECTLY TO ALUMINUM 67-12 M02-81896
CONTINUOUS IRON PROCESS NEARS PILOT PLANT 67-12 M04-82991
A REVIEW OF DIRECT REDUCTION PROCESSES 67-12 M04-83077

DIRECT REDUCTION, RADIATION EFFECTS
THE EFFECT OF GAMMA RADIATION ON REDUCTION OF IRON OXIDES BY HYDROGEN 67-10 M04-79849

DISCHARGE LAMPS
SEE FLASH LAMPS

DISCONTINUOUS PRECIPITATES
SEE CELLULAR PRECIPITATES

DISHING
SEE BULGING

DISINTEGRATION
EFFECT OF AN ELECTRIC FIELD ON THE CAVITATION DISINTEGRATION OF METALS 67-06 M17-70937

DISINTEGRATORS
SEE GRINDING MILLS
DISKS /BRAKE/
SEE BRAKE DISKS
DISLOCATION JOGS
INFLUENCE OF JOG CONCENTRATION ON THE CONSERVATIVE MOTION OF DISLOCATIONS IN COPPER 67-03 M13-65894
SOME OBSERVATIONS ON BOUNDARIES IN TUNGSTEN 67-06 M13-70432
DIFFUSION CONTROLLED MOTION OF JOGGED SCREW DISLOCATIONS 67-06 M13-71971
DISLOCATIONS IN DEFORMED SINGLE CRYSTALS 67-07 M14-73750
NUCLEATION OF GRAIN BOUNDARY CAVITIES DURING HIGH-TEMPERATURE CREEP 67-08 M14-76204
DISLOCATION LOOPS
CLIMB SOURCES IN QUENCHED ALUMINUM AND IN ALUMINUM-0.5 PER CENT SILVER ALLOY 67-01 M13-57124
TWO-TRIANGLE LOOPS IN QUENCHED ALUMINUM 67-01 M13-57125
THE NATURE OF DEFECTS IN NEUTRON-IRRADIATED CU OBSERVED BY ELECTRON MICROSCOPE 67-01 M13-57580
THE ELASTIC ENERGIES OF ELLIPTICAL DISLOCATION LOOPS 67-01 M13-57939
AMPLITUDE DEPENDENCE OF THE INTERNAL FRICTION AND MODULUS DEFECT IN ALUMINIUM. PT. 2. INVESTIGATIONS IN THE KC/S-RANGE 67-01 M17-58342
AMPLITUDE DEPENDENCE OF THE INTERNAL FRICTION AND MODULUS DEFECT IN ALUMINIUM. PT. 3. COMBINED KC/S MC/S-INVESTIGATIONS 67-01 M17-58343
DISLOCATION LOOPS IN IRRADIATED ZIRCONIUM 67-02 M13-60816
ISOTHERMAL ANNEALING STUDIES ON VACANCY AND INTERSTITIAL LOOPS IN SINGLE CRYSTAL GRAPHITE 67-02 M14-60813
DIRECT OBSERVATION OF INTERACTING DISLOCATION LOOPS FROM DIFFERENT SOURCES IN BI2TE3 67-03 M13-65135
GOLD-INDUCED DISLOCATION LOOPS IN SILICON CRYSTALS 67-03 M13-65156
INFLUENCE OF JOG CONCENTRATION ON THE CONSERVATIVE MOTION OF DISLOCATIONS IN COPPER 67-03 M13-65894
VACANCY CLUSTERS IN CU3AU ALLOY 67-04 M13-66650
RADIATION-DAMAGE STUDIES USING DISLOCATION PROPERTIES 67-04 M17-67316
EFFECT OF THE ANNULAR PRISMATIC DISLOCATION DIAMETER ON DEFORMATION RESISTANCE OF 3.5 MG-AL ALLOY SOLUTION TREATED AT 600 C 67-04 M17-68000
THE ENERGY OF DISSOCIATED TRIANGULAR FRANK DISLOCATION LOOPS IN F. C. C. METALS 67-05 M13-68754
THE NATURE OF DEFECTS IN QUENCHED NICKEL 67-05 M13-68755
THE INTERACTION BETWEEN DISLOCATION LOOPS AND STRAIGHT DISLOCATIONS IN AN ANISOTROPIC MATERIAL, GRAPHITE 67-05 M13-68758
A STUDY ON THE THERMAL REDUCTION OF MG BY SI. PT. 1. EFFECTS OF ADDITIONS 67-05 M13-68892
DISLOCATION DIPOLES AND DISLOCATION LOOPS 67-05 M13-69461
NUCLEATION OF DEFECTS IN METALS 67-05 M14-69730
MEASUREMENT OF DISLOCATION VELOCITIES IN GERMANIUM 67-05 M14-69784
THE BURGERS VECTOR OF DISLOCATION LOOPS IN GRAPHITE 67-06 M13-71287
STACKING FAULT TETRAHEDRA IN FATIGUED STAINLESS STEEL 67-06 M13-72223
INFLUENCE OF OXYGEN IN SILICON ON THE MOTION OF DISLOCATIONS GENERATED BY DIFFUSION 67-06 M14-70873
WORK HARDENING OF ALLOYS CONTAINING HARD PARTICLES 67-07 M13-73849
OBSERVATIONS OF DEFECTS IN BETA BRASS 67-07 M13-73919
FATIGUE STUDIES OF SINGLE CRYSTAL BERYLLIUM 67-07 M17-73743
ELECTRON TRANSMISSION MICROSCOPY OF NIAL 67-08 M13-75219
FORMATION OF DISLOCATION LOOPS IN DEGASSED AND QUENCHED AL 67-08 M13-76169
VACANCY-LOOP ANNEALING IN HEXAGONAL AND CUBIC LATTICES 67-08 M14-76209
EXPERIMENTAL TECHNIQUES USED TO STUDY LATTICE DEFECTS IN AL-MG ALLOYS 67-09 M13-78291
MULTIPLE DISLOCATION LOOPS OBSERVED IN SILICON CRYSTALS GROWN IN HYDROGEN AMBIENT 67-10 M13-79127
CLIMB KINETICS OF DISLOCATION LOOPS IN ALUMINIUM 67-10 M14-78904
CALCULATIONS ON THE MECHANICAL ENERGY OF VACANCY CONDENSATION LOOPS, STACKING FAULT TETRAHEDRA, AND VOIDS 67-10 M14-79006
ON THE FORMATION OF DISLOCATION LOOPS IN QUENCHED AUSTENITE 67-12 M13-82346
ANNEALING STUDIES OF IRRADIATED PLATINUM 67-12 M13-82521
DECOMPOSITION OF HELICAL DISLOCATIONS 67-12 M13-82551
ORDERING AND ITS EFFECT ON DISLOCATION ARRANGEMENTS IN MG3CD 67-12 M14-82962
DISLOCATION LOOPS, DIFFUSION EFFECTS
THE NATURE OF THE SOURCE OF DISLOCATION LOOPS GENERATED BY GOLD DIFFUSION INTO SILICON CRYSTALS 67-12 M13-82674
DISLOCATION LOOPS, HEATING EFFECTS
OBSERVATIONS OF SUBSTRUCTURES IN EXPLOSIVELY DEFORMED AND ANNEALED BETA BRASS 67-06 M14-69938
DISLOCATION LOOPS, IMPURITY EFFECTS
NUCLEATION OF DISLOCATIONS AROUND INCLUSIONS IN IRON 67-09 M14-78204
THE MECHANISM OF NUCLEATION OF DISLOCATIONS AROUND INCLUSIONS IN IRON 67-09 M14-78205
INTERSTITIAL LOOPS IN GRAPHITE, THEIR MOTION AND THEIR EFFECT ON ELASTIC MODULUS 67-10 M13-78915
DISLOCATION LOOPS, RADIATION EFFECTS
TRANSMISSION ELECTRON MICROSCOPE STUDIES OF NEUTRON IRRADIATED BERYLLIUM OXIDE 67-02 M13-59049
ELECTRON MICROSCOPY OF TYPES OF DEFECT CLUSTERS IN IRRADIATED METALS. PT. 1. THEORY OF CONTRASTS AND EXPERIMENTAL METHODS FOR IDENTIFICATION OF DEFECT TYPES 67-05 M16-69782
THE NATURE AND ANNEALING BEHAVIOR OF IRRADIATION DAMAGE IN MOLYBDENUM 67-07 M14-73383
THE INFLUENCE OF IRRADIATION TEMPERATURE ON THE DAMAGE STRUCTURE IN NEUTRON-IRRADIATED MOLYBDENUM 67-08 M16-76205
SMALL VACANCY DISLOCATION LOOPS IN NEUTRON-IRRADIATED COPPER 67-09 M16-76597
DEFORMATION OF NEUTRON-IRRADIATED COPPER SINGLE CRYSTALS 67-10 M14-78909
DISLOCATION LOOPS, STRESS EFFECTS
TWINNING AND DEFORMATION OF BE BY THE CLIMB OF DISLOCATIONS 67-05 M13-69456
DISLOCATION MULTIPOLES 67-05 M13-69468
INVESTIGATIONS ON SOME DEFORMATION MODES OF BERYLLIUM 67-06 M17-71540
DISLOCATION PINNING
SEE PINNING /DISLOCATION/
DISLOCATIONS
SEE ALSO DISLOCATION LOOPS
EDGE DISLOCATIONS
FRANK READ SOURCES
GLISSILE DISLOCATIONS
SCREW DISLOCATIONS
SESSILE DISLOCATIONS
ELECTRON DIFFRACTION STUDIES OF THE EPITAXY OF CU SINGLE CRYSTALS. PT. 2. EARLY STAGES OF EPITAXY AND INTERFACIAL DISLOCATION NETWORKS 67-01 M13-57109
DISLOCATION STRUCTURES IN CLEAVED MAGNESIUM OXIDE 67-01 M13-57123
THE ION EMISSION MICROSCOPE 67-01 M13-57167
KINETICS OF DISLOCATIONS NON-UNIFORMLY DISTRIBUTED IN A BODY CENTERED CUBIC LATTICE 67-01 M13-57338
STRENGTHENING MECHANISMS OF ORDERING ALLOYS. PT. 2 67-01 M13-57348
ELECTRON MICROSCOPY AND DIFFRACTION OF SYNTHETIC CORUNDUM CRYSTALS. PT. 2. DISLOCATIONS AND GRAIN BOUNDARIES IN IMPURITY-DOPED ALUMINIUM OXIDE 67-01 M13-57481
THE DIRECT OBSERVATION OF ETCH-PITS AT DISLOCATIONS IN MOLYBDENUM 67-01 M13-57482
TRANSMISSION ELECTRON-MICROSCOPIC STUDIES ON MECHANISMS FOR DIPOLE FORMATION IN MGO 67-01 M13-57487
OBSERVATION OF THIN FILMS OF ZIRCONIUM UNDER THE TRANSMISSION ELECTRON MICROSCOPE

67-01 M13-58023
DISLOCATIONS IN THE THETA --CUAL2-- PHASE COEXISTING WITH ALUMINUM 67-01 M13-58327
DISLOCATION ETCHING OF DEFORMED MOLYBDENUM 67-01 M13-58397
ENERGY AND ATOMIC CONFIGURATIONS OF COMPLETE AND DISSOCIATED DISLOCATIONS. PT. 2. SCREW DISLOCATION IN AN FCC METAL 67-01 M13-58752
PHYSICAL METALLURGY ASPECTS OF PLASTIC DEFORMATION 67-01 M14-58362
A NOTE ON THE TEMPERING BEHAVIOR OF A TI-9 WT PER CENT TA ALLOY QUENCHED FROM BETA REGION 67-01 M14-58739
TENSILE TESTS WITH VARYING SPEED OF DEFORMATION OF ALPHA-BRASS 67-01 M17-57288
MICROHARDNESS OF SILICON SINGLE CRYSTALS AS DEPENDENT ON THE DISLOCATION DENSITY AND IMPURITY CONCENTRATION 67-01 M17-57361
GROWTH OF DEFORMATION TWINS IN ZINC CRYSTALS 67-01 M17-57484
A WIDELY APPLICABLE DISLOCATION MODEL OF CREEP 67-01 M17-57942
ON THE INTERACTION BETWEEN DISLOCATION AND SOLUTE ATOM IN LOW-ALLOY HEAT-RESISTING STEELS 67-01 M17-58325
MECHANICAL PROPERTIES OF COMMERCIAL PURE TITANIUM AT HIGH TEMPERATURE 67-01 M17-58738
EFFECT OF GRAIN SIZE ON STRESS CORROSION OF TYPE 302 AUSTENITIC STAINLESS STEEL 67-01 M18-58483
THE FINE STRUCTURE OF REDUCED COPPER POWDER IN COMPACTS 67-02 M09-61624
DISLOCATION ARRANGEMENTS IN TANTALUM SINGLE CRYSTALS DEFORMED IN TENSION AT 373 K 67-02 M13-58960
VACANCY CONCENTRATIONS IN QUENCHED ALUMINUM 67-02 M13-58967
CONTINUOUS OBSERVATION OF CELL FORMATION IN ALUMINUM WITH A 500 KV ELECTRON MICROSCOPE 67-02 M13-59062
DISLOCATION ETCH PITS AND PHASE RELATIONSHIPS IN DIMOLYBDENUM CARBIDE SINGLE CRYSTALS 67-02 M13-59068
EFFECT OF COLD PLASTIC DEFORMATION AND OF THE QUANTITY OF CARBON ON THE DISLOCATION STRUCTURE OF CARBON STEELS 67-02 M13-59580
THE EQUILIBRIUM FORM OF A TWIN DELAYED AT AN OBSTACLE 67-02 M13-59669
INFLUENCE OF TEMPERATURE AND INTERSTITIAL IMPURITIES ON THE ENERGY DISIPATION DURING SMALL DISLOCATION DISPLACEMENTS IN IRON 67-02 M13-59887
ETCH PITTING ON DISLOCATIONS IN COPPER SINGLE CRYSTALS BY POTENTIOSTATIC ELECTROLYSIS 67-02 M13-60117
ELECTRON MICROSCOPIC OBSERVATION ON THE INTERACTION BETWEEN OXIDE PARTICLES AND DISLOCATIONS IN ALUMINUM AND MAGNESIUM 67-02 M13-60155
PROPAGATION OF STACKING FAULTS IN WORK HARDENED FACE CENTERED CUBIC METALS 67-02 M13-60214
ON THE DISLOCATION STRUCTURES FORMED DURING THERMOMECHANICAL TREATMENT OF ALLOYS WITH LOW DEFECT STACKING ENERGIES 67-02 M13-60298
SHIFT OF THE DISLOCATION IMAGE UNDER THE EFFECT OF ANOMALOUS TRANSMISSION OF X-RAYS 67-02 M13-60778
PROBLEM OF EXPOSING DISLOCATIONS IN METALLIC CRYSTALS BY SELECTIVE ETCHING 67-02 M13-60784
ORIENTATION DEPENDENCE OF A DISLOCATION ETCH FOR ZINC 67-02 M13-61082
ELECTRON MICROSCOPIC IMAGES OF DISLOCATION RIBBONS 67-02 M13-61512
THE OBSERVATION OF LOMER-COTTRELL DISLOCATIONS IN BORON-DIFFUSED --111-- SILICON BY BERG-BARRETT SKEW REFLECTIONS 67-02 M13-61662
REGARDING THE EFFECT OF SPECIMEN SHAPE ON THE SELECTION OF THE PRIMARY SLIP PLANE 67-02 M13-61824
FIELD ION MICROSCOPIC OBSERVATIONS OF DISLOCATION STRUCTURES AT GRAIN BOUNDARIES 67-02 M13-61828
EFFECT OF DEFORMATION-INDUCED CRYSTAL IMPERFECTIONS ON MAGNETOCRYSTALLINE ANISOTROPY OF NICKEL SINGLE CRYSTALS 67-02 M13-61831
DISLOCATION ETCH PITS IN SINGLE-CRYSTAL AND POLYCRYSTALLINE BERYLLIUM OXIDE 67-02 M13-61832
DISLOCATIONS IN ANTIMONY CRYSTALS. PT. 1. DETECTION OF DISLOCATIONS BY ETCHING --111-- PLANES IN A NEW ETCHANT 67-02 M13-61893
SOME REGULARITIES IN THE FORMATION OF A DISLOCATION STRUCTURE ON THE COLD PLASTIC DEFORMATION OF FE AND MO 67-02 M13-61935
ELECTRON MICROSCOPIC INVESTIGATION OF AL-ZN-MG ALLOYS 67-02 M14-59761
CHANGES IN INTERNAL ENERGY ASSOCIATED WITH RECOVERY AND RECRYSTALLIZATION 67-02 M14-60602
THE EFFECT OF COHERENT PARTICLES ON THE ANNEALING BEHAVIOR OF A COLD-WORKED CU-2 PER CENT CO ALLOY 67-02 M14-61819
SMALL-ANGLE X-RAY SCATTERING STUDY OF THE EARLY STAGES OF AGEING IN THE ALLOY AL-ZN 67-02 M14-61920
DISLOCATION MECHANISM OF THE GROWTH OF SPHEROIDAL GRAPHITE IN IRON 67-02 M14-61929
SUPERPOSITION OF THE EFFECTS OF THE FORMATION OF DIFFUSIONAL POROSITY DURING SELF-DIFFUSION AND HETERODIFFUSION 67-02 M14-62079
LOW-FREQUENCY DISLOCATION INTERNAL FRICTION WITH THE EFFECT OF ANOMALOUS AMPLITUDE DEPENDENCE IN AN AL 0.5 PER CENT CU ALLOY 67-02 M15-59579
DISLOCATION MOVEMENT IN THE BRITTLE FRACTURE OF ALUMINA 67-02 M17-58948
RECRYSTALLIZATION DURING CREEP OF NICKEL 67-02 M17-58953
THE INFLUENCE OF A SECOND-PHASE INTERFACE ON THE WORK HARDENING BEHAVIOR OF AN ALUMINUM-5 AT. PER CENT SILVER ALLOY 67-02 M17-58958
THE MICROSTRAIN BEHAVIOR OF BERYLLIUM SINGLE CRYSTALS 67-02 M17-58962
THE DEFORMATION PROPERTIES AND ELECTRON MICROSCOPY STUDIES OF THE INTERMETALLIC COMPOUND NIAL 67-02 M17-58963
DISLOCATION DAMPING IN ALUMINIUM-COPPER ALLOYS.. A QUANTITATIVE ANALYSIS 67-02 M17-58964
DISLOCATION MECHANISMS FOR PLASTIC FLOW IN AN IRON-MANGANESE ALLOY AT LOW TEMPERATURES 67-02 M17-59429
AMPLITUDE DEPENDENCE OF THE INTERNAL FRICTION AND MODULUS DEFECT IN ALUMINIUM. PT. 4. INVESTIGATION ON THE CRITICAL SHEAR STRESS 67-02 M17-59615
ON THE EQUALITY OF ACTIVATION ENERGY OF STRESS RUPTURE RESULTING FROM CREEP AND DISLOCATION MOVEMENT IN HIGH-ALLOY STEELS 67-02 M17-59936
THE RELATIONSHIP OF CRACK PROPAGATION RATE IN METALS TO AMOUNT OF PLASTIC DEFORMATION 67-02 M17-59938
RELATIONSHIP BETWEEN STEADY-STATE CREEP RATE AND MAGNETIC TRANSFORMATION TEMPERATURE IN FERRITIC FERRITIC IRON-CHROMIUM ALLOYS 67-02 M17-59981
INCREASING THE HIGH TEMPERATURE STRENGTH OF METALS BY PRODUCING STABLE DISLOCATION STRUCTURES 67-02 M17-60295
THE OPERATIVE SLIP SYSTEM AND GENERAL PLASTICITY OF NIAL. PT. 2 67-02 M17-60640
SURFACE DISLOCATIONS AND THE GROWTH OF DEFORMATION TWINS 67-02 M17-60648
THERMOMECHANICAL BEHAVIOR 67-02 M17-60705
THE PROPERTIES OF LOW-CARBON MARTENSITE. INTRODUCTION 67-02 M17-61695
WHY METALS ARE SO WEAK 67-02 M17-61800
THE MICROSTRUCTURE OF TENSILE KINKS IN CADMIUM CRYSTALS 67-03 M13-65213
MEASUREMENTS OF THE ANISOTROPY OF THE DISLOCATION RESISTIVITY IN AU, AG, AND CU 67-03 M13-65217
DEFORMATION STRUCTURES IN BERYLLIUM 67-03 M13-65270
ELECTRON MICROSCOPE STUDY OF WORK HARDENING AND QUENCH HARDENING OF MONOCRYSTALLINE BERYLLIUM 67-03 M13-65271
THE FINE STRUCTURE OF SPOTS IN ELECTRON DIFFRACTION RESULTING FROM THE PRESENCE OF PLANAR INTERFACES AND DISLOCATIONS. PT. 2. OBSERVATIONS ON CRYSTALS CONTAINING STACKING FAULTS 67-03 M13-65379
TRANSMISSION ELECTRON MICROSCOPE STUDY OF ROLLED STRUCTURES IN COPPERS OF VARYING PURITY 67-03 M13-65549
DEFORMATION AND SURFACE POLYGONIZATION OF IRON CRYSTALS OXIDIZED AT HIGH TEMPERATURES 67-03 M13-65553
EVOLUTION OF DISLOCATIONS DURING ANNEALING IN AN ORDERED SOLID SOLUTION OF FE-AL 67-03 M13-65557
REDISTRIBUTION OF DISLOCATIONS IN CEMENTITE DURING

HEATING 67-03 M13-65784
POLYGONIZATION OF HOT-STRAINED SILICON IRON 67-03 M13-65785
X-RAY DIFFRACTION STUDY OF THE PERFECTION OF NIOBIUM SINGLE CRYSTALS 67-03 M14-65090
COLD-WORKING, RECOVERY, RECRYSTALLIZATION 67-03 M14-65545
STUDY OF AL-ZN SLIGHTLY WORK-HARDENED STRUCTURES AND THEIR EVOLUTION DURING THERMAL TREATMENTS 67-03 M14-65548
EVOLUTION AFTER ANNEALING OF HIGH PURITY IRON COLD-WORKED BY EXTENSION 67-03 M14-65551
COPPER PURITY INFLUENCE ON ITS POLYGONIZATION APTITUDE 67-03 M14-65552
THE ROLE OF DISLOCATIONS IN RECRYSTALLIZATION 67-03 M14-65555
INFLUENCE OF THE ORIENTATION ON THE RECRYSTALLIZATION OF IRON SINGLE CRYSTALS DEFORMED BY UNIDIRECTIONAL ROLLING 67-03 M14-65558
EFFECT OF SPECIMEN THICKNESS ON THE SUPERCONDUCTING BEHAVIOR OF NIOBIUM SINGLE CRYSTALS IN TORSION 67-03 M16-65224
EFFECTS OF IRRADIATION IN BERYLLIUM 67-03 M16-65263
THE EFFECTS OF ROLLING TEMPERATURE ON THE MECHANICAL PROPERTIES AND MICROSTRUCTURES OF MILD STEELS 67-03 M17-65837
THE CRITICAL SECTION ANGLE IN ROLLING WIDE STRIPS 67-04 M07-66616
STRENGTHENING OF ALLOY STEELS BY AUSFORMING 67-04 M07-67564
SLIP BAND CONTINUITY ACROSS GRAIN BOUNDARIES IN ALUMINUM 67-04 M13-66053
ON DISLOCATIONS ETCHED IN DEFORMED CADMIUM SINGLE CRYSTALS 67-04 M13-66059
DISLOCATION MORPHOLOGY IN SHOCK DEFORMED BCC AND FCC METALS AND ALLOYS 67-04 M13-66071
ELECTRON MICROSCOPE OBSERVATIONS OF GAS BUBBLES IN NEUTRON IRRADIATED AL-LI ALLOYS 67-04 M13-66603
KINKING DURING ANNEALING OF PLATINUM WIRE 67-04 M13-67158
USE OF DEFORMATION RATE MEASUREMENTS IN THERMODYNAMICS 67-04 M13-67258
THE EXPERIMENTAL OBSERVATION OF DISLOCATIONS AND RADIATION DAMAGE IN CRYSTALS BY SURFACE METHODS AND DECORATION TECHNIQUES 67-04 M13-67303
METALLURGICAL APPLICATIONS OF A 500 KV ELECTRON MICROSCOPE 67-04 M13-67551
SMALL-ANGLE X-RAY SCATTERING METHOD OF STUDYING THE STRUCTURE OF NICKEL UNDER ALTERNATING LOAD 67-04 M13-67638
DEPENDENCE OF THE STARTING STRESS FOR PYRAMIDAL DISLOCATIONS ON THE TEMPERATURE AND DEGREE OF PERFECTION OF ZINC CRYSTALS 67-04 M13-67647
SOME FEATURES OF THE DISLOCATION STRUCTURE OF DILUTE SOLID SOLUTIONS BASED ON SILVER 67-04 M13-67655
RECOVERY OF ELECTRICAL RESISTIVITY OF PURE IRON DEFORMED AT THE LIQUID NITROGEN TEMPERATURE 67-04 M14-66272
THE DISLOCATION STRUCTURES OF THE BROAD FACES OF WIDMANSTATTEN GAMMA PLATES IN AN AL-15 PER CENT AG ALLOY 67-04 M14-66538
INTERNAL FRICTION OF PALLADIUM CONTAINING HYDROGEN 67-04 M14-66544
ON THE ANOMALOUS DIFFUSION BEHAVIOUR OF BCC ZIRCONIUM 67-04 M14-66547
RELATIONSHIP OF MICROSTRUCTURE TO SOME MECHANICAL PROPERTIES OF TI-8AL-1V-1MO 67-04 M14-66924
CHANGE IN THE TENDENCY OF PHOSPHORUS-DOPED COPPER TO THE FORMATION OF STACKING FAULTS 67-04 M14-67100
VARIATION IN THE FINE CRYSTAL STRUCTURE AND TENSILE STRENGTH OF TUNGSTEN ON ANNEALING 67-04 M14-67642
AN EXPERIMENTAL DETERMINATION OF ELECTRICAL RESISTIVITY OF DISLOCATIONS IN DEFORMED ALUMINUM 67-04 M15-68168
ANNIHILATION OF POSITRONS WITH ELECTRONS IN PLASTICALLY DEFORMED METALS WITH BCC LATTICES 67-04 M16-66001
NUCLEAR RESONANCE FREQUENCY DISTRIBUTION DUE TO THE PRESENCE OF LINEAR DISLOCATIONS IN A METAL 67-04 M16-67634
DIRECT OBSERVATION OF SAP STRUCTURE FAULTS 67-04 M17-66046
MANSON-COFFIN FATIGUE 67-04 M17-66052
SYNAMIC STRAIN AGEING IN MILD STEEL 67-04 M17-66060
A MODIFIED DOUBLE PILE-UP TREATMENT OF THE INFLUENCE OF GRAIN SIZE AND DISPERSED PARTICLES ON BRITTLE FRACTURE 67-04 M17-66066
THE EFFECT OF PRE-STRAIN AND STRAIN-AGEING ON THE CLEAVAGE FRACTURE OF A HIGH-MANGANESE STEEL 67-04 M17-66068
THE EQUILIBRIUM COTTRELL ATMOSPHERE AND THE DISCONTINUOUS YIELD IN TANTALUM-OXYGEN 67-04 M17-66069
COMMENTS ON THE FRICTIONAL STRESS OF MOVING DISLOCATIONS 67-04 M17-66070
SNOEK PEAKS AND THEIR STABILITY IN ANNEALED AND DEFORMED TANTALUM 67-04 M17-66162
A REVIEW OF THE MECHANISMS OF FATIGUE 67-04 M17-66171
THE CHANGE OF MECHANICAL AND PHYSICAL PROPERTIES OF ALPHA-IRON DUE TO TENSION, COMPRESSION, TORSION AND ROLLING 67-04 M17-66195
PHYSICAL ACOUSTICS, PRINCIPLES AND METHODS. V 3, PT. A. THE EFFECT OF IMPERFECTIONS 67-04 M17-66221
DISLOCATION RELAXATIONS IN BODY-CENTERED CUBIC TRANSITION METALS 67-04 M17-66225
KINKS IN DISLOCATION LINES AND THEIR EFFECTS ON THE INTERNAL FRICTION IN CRYSTALS 67-04 M17-66229
RELATIONSHIP BETWEEN MICRODEFORMATIONS AND THE GENERATION OF DISLOCATIONS IN IRON AND MILD STEEL 67-04 M17-66309
EVALUATION OF THE CHARACTERISTICS OF DISLOCATION STRUCTURE IN MEASURING THE AMPLITUDE DEPENDENCE OF INTERNAL FRICTION 67-04 M17-66827
DISLOCATION SUBSTRUCTURE AND EXTENSION OF FATIGUE LIFE IN METAL CRYSTALS 67-04 M17-66925
FURTHER EXPERIMENTS ON THE DISLOCATION INTERNAL FRICTION PEAKS WITH ANOMALOUS AMPLITUDE EFFECT IN AL-0.5 PER CENT CU ALLOY AND THE DISLOCATION KINK ATMOSPHERE MODEL 67-04 M17-67027
X-RAY INVESTIGATION OF 20KH ALLOY STEEL SUBJECTED TO LOAD CYCLING AT ROOM AND LOW TEMPERATURES 67-04 M17-67233
A DEFORMATION TWIN KINKED AT AN ANGLE OF 120 DEGREES OBSERVED IN ALPHA-IRON 67-04 M17-67485
CONCENTRATION DEPENDENCE OF THE STRENGTH OF CU-AL SOLID SOLUTIONS 67-04 M17-67644
INTERNAL FRICTION METHOD OF DETERMINING THE CHARACTERISTICS OF A DISLOCATION STRUCTURE 67-04 M17-67645
THE CONTRAST ON ELECTRON MICROGRAPHS CAUSED BY SPACED EDGE DISLOCATION MULTI-POLES 67-05 M13-68291
FOUR-LAYER DEFECTS IN QUENCHED ALUMINIUM 67-05 M13-68749
DEFORMATION OF CEMENTATION 67-05 M13-68756
ELECTRON MICROSCOPE ANALYSIS OF THE DISLOCATION STRUCTURE OF THE ALLOY CU PLUS 17.3 AT . PER CENT AL IN THE RANGE OF THE HIGH-TEMPERATURE TENSILE STRENGTH ANOMALY 67-05 M13-68846
CRYSTAL IMPERFECTIONS 67-05 M13-68990
THE FORMATION OF LATTICE DEFECTS BY SHOCK WAVES 67-05 M13-69157
TECHNIQUES OF EXPOSING DISLOCATIONS IN TIN 67-05 M13-69262
DISLOCATION DIPOLES IN MGO 67-05 M13-69462
LOCAL STRAINS DURING INTERACTION OF SLIP BANDS AND TWINS WITH BARRIERS 67-05 M13-69651
DECORATED DISLOCATIONS AND SUB-SURFACE DEFECTS INDUCED IN GAAS BY THE IN-DIFFUSION OF ZINC 67-05 M14-68627
DISLOCATION MULTIPLICATION, VACANCY ACCUMULATION, AND THE ONSET OF JERKY FLOW DURING FORWARD AND REVERSED STRAIN IN CU-3.2 AT. PER CENT SN 67-05 M14-68750
SURFACE OXIDE FILMS AND THE LIFETIME OF VACANCIES IN THIN CRYSTALS 67-05 M14-68752
INTERACTION BETWEEN DISLOCATIONS AND THETA-PRIME PRECIPITATES IN AN AL-CU ALLOY 67-05 M14-68871
ELECTRON MICROSCOPIC INVESTIGATION ON PRECIPITATION PHENOMENA IN AL-ZN ALLOY 67-05 M14-68879
INVESTIGATION BY MEANS OF THE ELECTRON MICROSCOPE OF PRECIPITATION IN AL-CU SOLID SOLUTIONS. PT. 1. THE STRUCTURE OF QUENCHED AL-CU SOLID SOLUTION 67-05 M14-69125
DIFFUSION-INDUCED DEFECTS IN SILICON. PT. 2 67-05 M14-69208

ON THE MECHANISM OF STRENGTHENING DURING REPEATED STRAIN AGING 67-05 M14-69653
UNSTABLE DISLOCATIONS IN ANISOTROPIC CRYSTALS 67-05 M14-69777
DETERMINATION OF THE ANTIPHASE DOMAIN SURFACE ENERGY OF COHERENT ORDERED PRECIPITATES IN THE ABSENCE OF INTERFACE STRESSES AND CHEMICAL INTERACTIONS 67-05 M15-69334
THE EFFECT OF DISLOCATIONS ON THE MAGNETIZATION CURVES OF FERROMAGNETIC CRYSTALS 67-05 M15-69453
INTERSTITIAL DISLOCATION LOOPS IN NEUTRON IRRADIATED COPPER 67-05 M16-68298
DISLOCATIONS IN SEMICONDUCTORS 67-05 M16-69451
THE INFLUENCE OF DISLOCATIONS ON SUPERCONDUCTIVITY 67-05 M16-69452
A CRITICAL EXAMINATION OF THE LONG-RANGE STRESS THEORY OF WORK-HARDENING 67-05 M17-68293
EFFECT OF PRE-YIELD RELAXATION ON THE YIELDING OF IRON 67-05 M17-68434
MICROPLASTICITY OF URANIUM DIOXIDE AT ROOM TEMPERATURE 67-05 M17-68571
ATOMISTIC VIEWPOINT IN MATERIALS APPLICATIONS 67-05 M17-69000
INTERACTION BETWEEN DISLOCATIONS AND H ATOMS IN ALPHA-FE 67-05 M17-69467
STUDY OF THE INTERACTION OF DISLOCATIONS WITH IMPURITY ATOMS IN CU-MG ALLOYS 67-05 M17-69654
HIGH-TEMPERATURE MICROPROFILE APPEARING ON THE SURFACE OF IRON SPECIMENS DURING FATIGUE LOADING 67-05 M17-69656
ON THE STRUCTURE AND MECHANICAL PROPERTIES OF COPPER, ROLLED AT LOW TEMPERATURES 67-05 M17-69657
ON THE HARDNESS CHANGE OF FERROUS MARTENSITE BY DEFORMATION 67-05 M17-69867
THERMAL ETCHING OF BETA ALLOY OF THE TI-MO-FE-AL SYSTEM 67-06 M13-69989
INFLUENCE OF ULTRASONIC VIBRATIONS ON MICROSTRUCTURE OF ARMCO IRON 67-06 M13-70059
A CONTRIBUTION TO THE STUDY OF DISLOCATIONS IN POLYCRYSTALLINE IRON BY ETCH-PIT TECHNIQUE 67-06 M13-70402
DISLOCATION NODE DETERMINATIONS OF THE STACKING FAULT ENERGY IN SILVER-TIN ALLOYS 67-06 M13-70405
DISLOCATION MECHANISMS IN SINGLE CRYSTALS OF TANTALUM AND MOLYBDENUM AT LOW TEMPERATURES 67-06 M13-70411
THE OBSERVATION OF DISLOCATIONS WITH BURGERS VECTOR A --100-- IN A SINGLE CRYSTAL OF FE-SI ALLOY 67-06 M13-70593
ON THE SUPERSTRUCTURES OF TA2O5 AND NB2O5 67-06 M13-70985
DISLOCATION ARRANGEMENT AND STRENGTHENING IN STAGE 2 IN PLASTICALLY DEFORMED GOLD SINGLE CRYSTALS 67-06 M13-71021
DISLOCATION CONFIGURATIONS IN WIRE-DRAWN POLYCRYSTALLINE COPPER ALLOYS.. A STUDY BY X-RAY DIFFRACTION 67-06 M13-71089
INTERACTION OF RADIATION DEFECTS WITH DISLOCATIONS IN GERMANIUM 67-06 M13-71763
THE DOUBLE-KINK MODEL FOR LOW-TEMPERATURE DEFORMATION OF BCC METALS AND SOLID SOLUTIONS 67-06 M13-71962
COMMENTS ON THE DISLOCATION DISTRIBUTION NEAR THE SURFACE OF DEFORMED COPPER 67-06 M13-72241
STUDY OF DISLOCATION AND SLIP SYSTEMS IN CD AND ZN SINGLE CRYSTALS 67-06 M13-72371
THE ORIENTATION DEPENDENCE OF DISLOCATION DAMPING IN ZINC 67-06 M14-69939
EFFECTS OF CARBIDE SIZE AND SPACING ON INTERSTITIAL AND CARBIDE STRENGTHENING IN A 0.3 PER CENT C STEEL 67-06 M14-70812
RECOVERY PHENOMENA IN COLD WORKED ALUMINIUM--ALUMINA ALLOYS 67-06 M14-70889
AN ELECTRON MICROSCOPE INVESTIGATION OF EXPLOSIVELY LOADED COPPER 67-06 M14-71279
WORK HARDENING AND DISLOCATION STRUCTURE IN TA AND TA-BASE ALLOYS 67-06 M14-71284
A CAMERA FOR BORRMANN STEREO X-RAY TOPOGRAPHS 67-06 M14-71419
A MODIFICATION OF THE SCANNING X-RAY TOPOGRAPHIC CAMERA --LANGS METHOD-- 67-06 M14-71420
SUBSTRUCTURE MEASUREMENTS BY STATISTICAL FLUCTURATIONS IN X-RAY DIFFRACTION INTENSITY 67-06 M14-71424
DISLOCATION STRUCTURE IN AS-GROWN HIGH-PURITY IRON SINGLE CRYSTALS 67-06 M14-71527
METALLURGICAL INVESTIGATIONS WITH A 500 KV ELECTRON MICROSCOPE 67-06 M14-71545
INTERACTION BETWEEN DISLOCATIONS AND BLOCK WALLS WITH FIXED MAGNETIZATION 67-06 M15-70989
DENSITY CHANGES DUE TO DISLOCATIONS IN SILICON SINGLE CRYSTALS 67-06 M15-70997
ELECTRON MIRROR OBSERVATION OF LITHIUM PRECIPITATION AT SCRATCH-INDUCED DISLOCATIONS IN SILICON 67-06 M16-70994
THE EFFECT OF FREE DISLOCATIONS ON YIELDING AND FRACTURE IN BODY-CENTERED CUBIC METALS 67-06 M17-70624
THE INTERACTION BETWEEN AN ELASTIC CRACK AND A SLIP BAND WITH SPECIAL REFERENCE TO BRITTLE FRACTURE STRENGTH OF METALS 67-06 M17-70704
CLEAVAGE CRACK PROPAGATION WITHIN CRYSTALS BY THE GRIFFITH MECHANISM VERSUS A DISLOCATION MECHANISM 67-06 M17-71090
APPLICATION OF ANISOTROPIC ELASTICITY THEORY TO THE CHOICE OF PRIMARY SLIP SYSTEMS IN HCP METAL CRYSTALS 67-06 M17-71277
DISLOCATION CONTRIBUTION TO THE FLOW STRESS OF POLYCRYSTALLINE IRON 67-06 M17-71523
DEFORMATION OF ALUMINIUM AT HIGH TEMPERATURES AND STRAIN RATES 67-06 M17-71541
ON THE ORIENTATION DEPENDENCE OF YIELDING IN BCC METALS 67-06 M17-72235
THE ROLE OF YIELDING IN STRESS-CORROSION CRACKING 67-06 M18-70630
DISLOCATION MOTION IN COPPER SINGLE CRYSTALS 67-07 M13-72406
BEHAVIOR OF DISLOCATIONS IN THE STEEL MATRIX AROUND SMALL NONMETALLIC INCLUSIONS. PT. 4. DEFORMATION OF NONMETALLIC INCLUSIONS IN STEEL DURING ROLLING 67-07 M13-72496
ATOMIC STRUCTURE OF PLATINUM CRYSTALS ELECTROLYTICALLY OVERGROWN ON FIELD-ION MICROSCOPE TIPS 67-07 M13-72630
STRUCTURAL DEFECTS IN EPITAXIAL GALLIUM ARSENIDE 67-07 M13-72918
DISLOCATION DYNAMICS IN DEFORMATION AND RECOVERY 67-07 M13-73057
SLIP BEHAVIOR IN COPPER CRYSTALS PREVIOUSLY DEFORMED ON ANOTHER SLIP SYSTEM 67-07 M13-73058
ANTI-PHASE DOMAINS AND DISLOCATION CONFIGURATIONS IN THE FE-13 AT. PER CENT SI ALLOY 67-07 M13-73146
LATTICE DEFECTS 67-07 M13-73675
DISLOCATIONS IN GRAIN BOUNDARIES AND GRAIN BOUNDARY SLIDING 67-07 M13-73920
DISLOCATION DENSITY AND LOCAL SLIP IN GERMANIUM SINGLE CRYSTALS 67-07 M13-73928
TRANSMISSION ELECTRON MICROSCOPY OF PU-1 WT PER CENT GA 67-07 M13-74240
DISLOCATION ARRANGEMENT IN MATERIALS DEFORMED AT HIGH VELOCITY 67-07 M13-74274
RECOVERY OF ULTRASONIC ATTENUATION IN COPPER SINGLE CRYSTALS FOLLOWING SMALL PLASTIC DEFORMATION 67-07 M14-72637
EFFECT OF GRIP STRESSES ON DISLOCATION CONFIGURATION AFTER PLASTIC DEFORMATION 67-07 M14-72644
DISLOCATION DAMPING IN ZINC SINGLE CRYSTALS 67-07 M14-72886
CALCULATIONS OF THE STRESSES TO MOVE DISLOCATIONS ON THE BASAL AND PRISM PLANES OF BERYLLIUM 67-07 M14-73747
STRESS-INDUCED SOLUTE DIFFUSION ALONG DISLOCATIONS IN DILUTE COPPER ALLOYS 67-07 M14-73911
SELF-DIFFUSION IN TELLURIUM. PT. 2. GRAIN BOUNDARY AND DISLOCATION EFFECTS 67-07 M14-73935
MICROMAGNETIC TREATMENT OF THE INTERACTION BETWEEN DISLOCATIONS AND BLOCH WALLS 67-07 M15-72953
MAGNETOELASTIC INTERACTION OF DISLOCATIONS AND FERROMAGNETIC DOMAIN WALLS AND TORSIONAL MICROCREEP EXPERIMENTS ON IRON AND NICKEL TUBES 67-07 M15-73565
EXTRINSIC PHOTOCONDUCTIVITY IN GE CAUSED BY DISLOCATIONS 67-07 M16-72954
ULTRASONIC ATTENUATION IN NORMAL AND SUPERCONDUCTING LEAD--ELECTRONIC DAMPING OF DISLOCATIONS 67-07 M16-73817
EQUALITY OF THE ACTIVATION ENERGIES OF LONG-TIME FAILURE, STEADY-STATE CREEP AND DISLOCATION CLIMB IN HIGH ALLOYS 67-07 M17-72591

RELATION BETWEEN THE RATE OF CRACK GROWTH AND THE MAGNITUDE OF PLASTIC DEFORMATION
67-07 M17-72593
RESIDUAL STRAINS IN PHOSPHORUS-DIFFUSED SILICON
67-07 M17-72646
MECHANICAL HYSTERESIS IN DEFORMED COPPER CRYSTALS
67-07 M17-72656
ORIENTATION DEPENDENCE OF DISLOCATION DAMPING IN MAGNESIUM SINGLE CRYSTALS 67-07 M17-72659
PLASTIC DEFORMATION OF FERROUS OXIDE
67-07 M17-72939
THE DEFORMATION ON NIOBIUM SINGLE CRYSTALS
67-07 M17-73064
DEPENDENCE OF THE DISLOCATION DENSITY ON THE STRAIN RATE 67-07 M17-73322
THE MICROSTRAIN CHARACTERISTICS OF BERYLLIUM
67-07 M17-73760
COMPONENTS OF THE FLOW STRESS OF RICN
67-07 M17-73924
FRACTURE OF STRUCTURAL MATERIALS
67-07 M17-74129
PROCESSES CONTROLLING THE GROWTH OF DEFORMATION TWINS 67-08 M13-74408
DIRECT OBSERVATION OF THE MULTIPLICATION OF DISLOCATIONS IN THIN FOILS OF ALUMINIUM-BASED ALLOYS 67-08 M13-74420
MOVEMENT OF DISLOCATIONS AND CROSS-SLIP IN AL-MG ALLOYS 67-08 M13-75075
THE IDENTIFICATION OF BURGERS VECTORS AND UNSTABLE DIRECTIONS OF DISLOCATIONS IN BETA BRASS
67-08 M13-75223
THE INFLUENCE OF ELASTIC ANISOTROPY ON SOME PROPERTIES OF GLIDE DISLOCATIONS IN BCC CRYSTALS
67-08 M13-75330
PROOF OF DISLOCATIONS IN TUNGSTEN AND MOLYBDENUM BY ELECTROLYTIC ETCHING 67-08 M13-75601
MICROSTRUCTURE ASSOCIATED WITH THE PEAK EFFECT --MAXIMUM IN CRITICAL CURRENT DENSITY-- IN SUPERCONDUCTING NIOBIUM 67-08 M13-75784
THE OBSERVATION OF THICK SPECIMENS BY HIGH VOLTAGE ELECTRON MICROSCOPY. EXPERIMENTS WITH MOLYBDENITE FILMS AT 50-500 KV
67-08 M13-75934
FINE CRYSTAL STRUCTURE OF THE SURFACE LAYER OF STEEL HARDENED WITH ROLLERS 67-08 M13-76004
DISLOCATION STRUCTURE OF DEFORMED AUSTENITE AND ITS INHERITANCE BY MARTENSITE
67-08 M13-76023
DEFECTS IN SILICON CRYSTALS GROWN BY THE VLS TECHNIQUE 67-08 M14-75117
EFFECT OF ATOMIC ORDERING ON STRAIN AGING OF NI2CR ALLOY 67-08 M14-75281
EFFECT OF ALTERNATE BENDS ON COPPER WHISKERS
67-08 M14-76228
ROLE OF SLIP STEP EMERGENCE IN THE EARLY STAGES OF STRESS CORROSION CRACKING IN FACE CENTERED IRON-NICKEL-CHROMIUM ALLOYS 67-08 M18-75773
DISLOCATION DISTRIBUTIONS DURING STAGE I DEFORMATION OF SILVER SINGLE CRYSTALS
67-09 M13-76587
DETERMINING DISLOCATION DENSITIES BY TRANSMISSION ELECTRON MICROSCOPY 67-09 M13-77070
DEFECT SENSITIVE PROPERTIES OF METALS
67-09 M13-77400
ETCHING PHENOMENA IN THE --111-- PLANE OF NIOBIUM
67-09 M13-77430
DISLOCATION PILEUPS AGAINST A LOCKED DISLOCATION OF A DIFFERENT BURGERS VECTOR
67-09 M13-77434
BEHAVIOR OF PASSING DISLOCATIONS IN SUPERLATTICES
67-09 M13-77440
DISCREPANCIES FROM A PERFECT MATCH IN THE ETCH PATTERNS ON THE OPPOSITE CLEAVAGE FACES IN BI2TE3
67-09 M13-77447
EXPERIMENTAL INVESTIGATION OF PRISMATIC CROSS-SLIP OF DISLOCATIONS IN THE VICINITY OF COHERENT, STRAINED PRECIPITATIONS 67-09 M13-77931
THE TWINNING DISLOCATION IN BCC METALS
67-09 M13-77932
THE ARRANGEMENT AND DISTRIBUTION OF DISLOCATIONS IN DEFORMED CU-AL SINGLE CRYSTALS
67-09 M13-77990
MIGRATION OF LOCALIZED IMPERFECTIONS AND ANELASTIC RELAXATION DUE TO DISLOCATIONS IN TANTALUM 67-09 M13-78165
THE DISLOCATION MOTION IN ALLOYS WITH COHERENT, ORDERED, STRESSED PRECIPITATES
67-09 M14-76790
EFFECTS OF THE CONDITIONS UNDER WHICH ALUMINUM MONOCRYSTALS GROW OUT OF MOLTEN ALUMINUM ON THEIR DISLOCATIONAL STRUCTURE 67-09 M14-76687
EFFECT OF DISLOCATION DENSITY ON THE EPITAXIAL GROWTH OF SILVER 67-09 M14-77457
EVIDENCE FOR PSEUDOMORPHIC GROWTH OF IRON ON COPPER
67-09 M14-77517
HIGH-TEMPERATURE CREEP AND DISLOCATION ETCH PITS IN POLYCRYSTALLINE BERYLLIUM OXIDE
67-09 M17-76754
STUDY ON WARM WORKING. PT. 1. STRENGTHENING MECHANISM BY WARM WORKING OF STEEL
67-09 M17-78212
ALTERATION IN THE DISLOCATION STRUCTURE OF CEMENTITE DURING DEFORMATION AND ANNEALING
67-10 M13-78383
INITIAL STAGE OF THE DEVELOPMENT OF TWINNING IN METAL CRYSTALS 67-10 M13-78384
SPECIAL FEATURES OF INTERACTION BETWEEN TWIN CRYSTALS AND OBSTACLES 67-10 M13-78386
EFFECT OF ULTRASONIC VIBRATIONS ON THE MICROSTRUCTURE OF ARMCO IRON 67-10 M13-78805
CHANGES IN THE FINE STRUCTURE OF ALPHA-IRON DURING ELECTRON MICROSCOPE
ITS DEFORMATION INVESTIGATED UNDER THE
67-10 M13-78949
RESEARCH INTO THE EFFECTS OF DEFORMATION AND ANNEALING ON THE STRUCTURE OF MONOCRYSTALLINE SPECIMENS OF E1437B ALLOY 67-10 M13-78959
A COMPARISON OF ELECTRON MICROSCOPE IMAGES OF DISLOCATIONS BASED ON ISOTROPIC AND ANISOTROPIC ELASTICITY THEORY 67-10 M13-79018
MICROSCOPIC EVIDENCE OF PLASTIC DEFORMATION ON CLEAVED GERMANIUM SURFACES 67-10 M13-79158
DISLOCATION MOVEMENT IN ZINC SINGLE CRYSTALS AT HIGH TEMPERATURE 67-10 M13-79232
DEFORMATIONS DURING THE INTERACTION OF TWINS AND MARTENSITIC PLATES WITH BARRIERS
67-10 M13-79236
DISTRIBUTION AND DENSITY OF DISLOCATIONS IN BENT AND ANNEALED GALLIUM ARSENIDE AND INDIUM ANTIMONIDE CRYSTALS 67-10 M13-79246
INVESTIGATION OF THE DISLOCATION STRUCTURE OF SILICON DEFORMED DURING THE EASY SLIP STAGE
67-10 M13-79448
THE EFFECT OF OXIDE FILMS ON DISLOCATION-SURFACE INTERACTIONS IN ALUMINUM 67-10 M13-79553
DISLOCATION MOTION IN SILICON IRON IN MACROELASTIC STRESS 67-10 M13-79842
EXAMINATIONS OF TITANIUM USING AN ELECTRON MICROSCOPE 67-10 M13-79873
REVEALING DISLOCATION STRUCTURE IN KHN77TYUR ALLOYS BY STAINING 67-10 M13-79905
SIMILARITIES BETWEENTHE MARTENSITIC AND COLD WORKED STRUCTURES OF STEELS 67-10 M13-79947
POLYGONIZATION IN SILICON MONOCRYSTAL
67-10 M13-80026
THE ACTIVATION PARAMETERS FOR DISLOCATION GLIDE
67-10 M14-78910
THE MECHANISM OF DEFORMATION OF THE ORDERED CUAU ALLOY 67-10 M14-79005
RECOVERY OF PLASTICALLY DEFORMED FILAMENTARY CRYSTALS OF COPPER 67-10 M14-79472
THE EFFECT OF THERMAL DEFECTS ON THE STABILITY OF GERMANIUM AGAINST RADIATION 67-10 M16-79475
CERTAIN SPECIAL FEATURES OF THE PLASTIC DEFORMATION OF COARSE-GRAINED AUSTENITIC STEELS
67-10 M17-78387
PLASTIC DEFORMATION OF HEXAGONAL COBALT SINGLE CRYSTALS 67-10 M17-78694
CAUSES OF THE STRONG AMPLITUDE DEPENDENCE OF INTERNAL FRICTION IN COLD STRAINED STEEL
67-10 M17-79235
CHANGE IN THE BLOCK STRUCTURE OF ALUMINUM IN THE COURSE OF CREEP 67-10 M17-79650
DIRECT OBSERVATION OF PRECIPITATION IN A CU-2.3 PER CENT FE 67-11 M10-80949
MOBILITY OF --100-- AND --110-- DISLOCATIONS IN BCC IRON 67-11 M13-80106
THE STUDY OF CRYSTAL IMPERFECTIONS BY MEANS OF OPTICAL METHODS AND BY MEANS OF ELECTRON MICROSCOPY AND ELECTRON DIFFRACTION
67-11 M13-80140
GROWTH AND STRUCTURE OF GE THIN FILMS PRODUCED BY THE METHOD OF FOIL CRYSTALLIZATION
67-11 M13-80226
CRYSTAL STRUCTURE OF THIN GE FILMS PRODUCED BY CRYSTALLIZATION METHOD 67-11 M13-80227
STACKING FAULTS IN TUNGSTEN 67-11 M13-80233
X-RAY MEASUREMENTS OF STACKING FAULTS IN SILVER-

ANTIMONY ALLOYS 67-11 M13-80490
A SOURCE OF DISLOCATIONS IN COPPER CRYSTALS 67-11 M13-80620
CHANGE IN THE DISLOCATION STRUCTURE OF SILICON IRON DURING CREEP 67-11 M13-80721
MULTIPLICATION OF DISLOCATIONS IN ANTIMONY AND BISMUTH 67-11 M13-80733
THE DEVELOPMENT OF SLIP BAND STEPS ON THE SURFACE OF ZINC SINGLE CRYSTALS 67-11 M13-80735
INFLUENCE OF DISLOCATION STRUCTURE ON COERCIVE FORCE OF SILICON IRON 67-11 M13-80740
LUDERS BANDS OF KCL WHISKERS 67-11 M13-80812
STUDIES ON THE SUBSTRUCTURE DEVELOPED DURING CREEP DEFORMATION OF COPPER CRYSTALS 67-11 M13-80953
STUDIES ON DEFORMED SUPERFICIAL LAYERS PRODUCED BY ABRASION IN 18-8 STAINLESS STEEL BY TRANSMISSION ELECTRON MICROSCOPY 67-11 M13-80954
DISLOCATION SUBSTRUCTURE IN SINGLE CRYSTALS OF HEXAGONAL AG-AL ORIENTED FOR PRISMATIC SLIP 67-11 M13-81266
STUDY OF THE EFFECT OF AGING AND DEFORMATION ON THE DISLOCATION STRUCTURE OF AUSTENITIC STEELS 67-11 M13-81429
BASAL DISLOCATION MOBILITY IN ZINC SINGLE CRYSTALS 67-11 M13-81540
THE REFINEMENT OF PLATINUM BY ANNEALING IN AIR 67-11 M14-80320
ELECTRON MICROSCOPIC STUDY OF POLYGONIZATION AND PRIMARY RECRYSTALLIZATION IN COLD ROLLED TRANSFORMER STEEL 67-11 M14-80727
THE EFFECT OF THE DISLOCATION STRUCTURE ON THE DISSOLUTION OF CRYSTALS 67-11 M14-80841
THE POSSIBLE ROLE OF DISLOCATIONS IN GENERATING ORDERED AND DISORDERED SHEAR STRUCTURES 67-11 M14-81671
ELECTRICAL PROPERTIES OF GERMANIUM COMPOUNDS 67-11 M15-80610
AN INTERPRETATION OF THE EFFECTS OF STRESS AND TEMPERATURE ON THE CREEP PROPERTIES OF A NICKEL-BASE SUPERALLOY 67-11 M17-80103
THE EFFECTS OF SOLUTES ON THE FRACTURE BEHAVIOR OF METALS 67-11 M17-80143
MICROSTRUCTURE AND MECHANICAL PROPERTIES OF AN IRON-NICKEL-BASE ALLOY WITH ALUMINIUM AND TITANIUM ADDITIONS AFTER VARIOUS THERMAL AND THERMOMECHANICAL TREATMENTS 67-11 M17-80373
YIELD BEHAVIOR OF DISLOCATION-FREE GERMANIUM FROM 500 C. TO THE VICINITY OF THE MELTING POINT 67-11 M17-81084
FREQUENCY DEPENDENCE OF DISLOCATION DAMPING IN SINGLE-CRYSTAL COPPER 67-11 M17-81093
DISLOCATION MOBILITY AND FRACTURE RESISTANCE OF IRON 67-11 M17-81165
DISLOCATION DENSITIES IN TUNGSTEN 67-11 M17-81271
SUBSTRUCTURE OF MARTENSITE IN CARBON STEELS 67-12 M13-81835
MICROSTRUCTURAL FEATURES OF FATIGUE FRACTURE OF COMMERCIAL IRON IN THE DYNAMIC STRAIN AGING TEMPERATURE RANGE 67-12 M13-82338
THE FORMATION OF VACANCY CLUSTERS IN ALUMINUM 67-12 M13-82549
FOREST DISLOCATIONS IN SILVER SINGLE CRYSTALS 67-12 M13-82553
X-RAY STUDY OF COLD WORKED SILVER-ANTIMONY ALLOYS EFFECTS DUE TO EXTRINSIC STACKING FAULTS 67-12 M13-82586
DARK AND LIGHT PITS ON --111-- SURFACE OF COPPER 67-12 M13-82672
APPARENT PORE FORMATION DURING CELLULAR SOLIDIFICATION 67-12 M13-82874
CHEMICAL ETCHANTS FOR DISLOCATIONS IN ALPHA BRASS 67-12 M13-82983
DIRECT OBSERVATION OF NONBASAL DISLOCATIONS IN SINTERED ALUMINA 67-12 M13-82995
THE INFLUENCE OF CARBON ON PRECIPITATION OF COPPER IN SILICON SINGLE CRYSTALS 67-12 M14-82004
ON THE AGING PHENOMENA AND LATTICE DEFECTS IN ALUMINUM ALLOYS. PT. 5. INFLUENCE OF ADDITIONAL ELEMENTS ON THE FORMATION OF GP ZONE IN AL-ZN-MG ALLOY 67-12 M14-82135
DIFFUSION OF MOLYBDENUM IN ALUMINUM 67-12 M14-82378
EFFECT OF DISLOCATIONS ON THE DIFFUSION OF SOME ELEMENTS OF THE 3 AND 5 GROUPS OF THE PERIODIC TABLE IN GERMANIUM 67-12 M14-83315
ON THE STRUCTURE AND MECHANICAL PROPERTIES OF COPPER ROLLED AT 4.2 TO 300 K 67-12 M17-82341
THE MECHANISM OF HIGH TEMPERATURE STEADY STATE CREEP OF METALS AND ALLOYS 67-12 M17-82416
VARIATION OF INTERNAL FRICTION VALUES DURING AGING OF QUENCHED AL --99.995 PER CENT PURITY-- 67-12 M17-82712
THE EFFECTS OF TEMPERATURE AND COMPOSITION ON CRACK PROPAGATION IN IRON-SILICON SINGLE CRYSTALS 67-12 M17-82856
THE EFFECT OF THE SURFACE LAYER STRESS ON TRANSIENT CREEP OF POLYCRYSTALLINE ALUMINUM 67-12 M17-83049
RESEARCH ON THE APPEARANCE AND DEVELOPMENT OF EXTRUSIONS AND INTRUSIONS IN IRON AND COPPER 67-12 M17-83514
INFLUENCE OF A CONSTANT STRESS ON THE MECHANICAL CHARACTERISTICS OF DRAWN BARS 67-12 M17-83515
EFFECT OF DEFORMATION RATES ON STRAIN AGING TEMPERATURE AND DISLOCATION DENSITY IN CARBON STEEL 67-12 M17-83526
INTERACTION OF DISLOCATIONS WITH COHERENT PARTICLES AND STRESS CORROSION CRACKING OF HIGH-STRENGTH ALUMINUM ALLOYS 67-12 M18-82016
EFFECT OF SILICON ON THE STACKING FAULT ENERGY OF 18 PER CENT CR-10 PER CENT NI STAINLESS STEEL 67-12 M18-82590

DISLOCATIONS, ALLOYING EFFECTS
DISLOCATION MOTION AND MULTIPLICATION IN CU ALLOY SINGLE CRYSTALS 67-05 M13-69866
EFFECT OF CADMIUM ALLOY CONCENTRATION ON THE SUBSTRUCTURE AND DISLOCATION DENSITY IN ZINC SINGLE CRYSTALS 67-12 M13-82339
THE INFLUENCE OF A DILUTE MAGNESIUM ADDITION ON THE GROWTH AND SHRINKAGE OF DISLOCATION LOOPS IN ALUMINIUM 67-12 M13-82540

DISLOCATIONS, DIFFUSION
THE PROBLEM OF DIFFUSION IN METAL CRYSTAL DEFECTS SUCH AS DISLOCATIONS AND BOUNDARIES 67-06 M14-72345

DISLOCATIONS, DIFFUSION EFFECTS
IMPERFECTIONS DUE TO DOUBLE DIFFUSIONS IN EPITAXIAL SILICON 67-05 M14-69211

DISLOCATIONS, HEATING EFFECTS
VACANCY-DISLOCATION INTERACTIONS IN A BETA BRASS CONTAINING 4 PER CENT ALUMINUM 67-05 M13-69464
EFFECTS OF SPECIMEN THICKNESS AND ORIENTATION ON WEIGHT LOSS OF ALPHA-BRASS SINGLE CRYSTALS DUE TO HEATING IN VACUUM 67-08 M13-74604
INFLUENCE OF TEMPERING ON THE MECHANICAL PROPERTIES AND THE FINE STRUCTURE OF QUENCHED AND DEFORMED STEELS 67-08 M17-76026

DISLOCATIONS, IMPURITY EFFECTS
EFFECT OF SMALL QUANTITIES OF ADDED IMPURITIES ON THE DISLOCATION STRUCTURE OF ALUMINUM SINGLE CRYSTALS 67-01 M13-57660
DISLOCATIONS IN SILICON DUE TO LOCALIZED DIFFUSION 67-02 M13-61829
EFFECT OF THE CADMIUM IMPURITY CONCENTRATION ON THE SUBSTRUCTURE OF ZINC SINGLE CRYSTALS 67-06 M13-70193
STUDY OF THE INTERACTION OF DEFECTS BY MEANS OF THE ANOMALOUS TRANSMISSION OF X-RAYS 67-06 M14-70507
CHEMICAL INFLUENCE OF HOLES AND ELECTRONS ON DISLOCATION VELOCITY IN SEMICONDUCTORS 67-08 M16-74395
THE EFFECT OF IMPURITIES ON THE RECOVERY OF COLD-WORKED NICKEL 67-09 M14-77518
DUCTILE-BRITTLE TRANSITION IN IRON FREE FROM INTERSTITIALS 67-09 M17-78292
EFFECTS OF TRACE IMPURITIES ON X-RAY DIFFRACTION 67-11 M13-80135

DISLOCATIONS, MECHANICAL PROPERTIES
DISLOCATION DAMPING IN ALUMINUM AT HIGH STRAIN RATES 67-08 M17-75127

DISLOCATIONS, PHASE TRANSFORMATIONS
DISLOCATION SUBSTRUCTURE IN IRON INDUCED BY ALPHA-GAMMA-ALPHA TRANSFORMATION CYCLING 67-01 M14-58466

DISLOCATIONS, PRECIPITATION
INTERACTION OF DISLOCATIONS AND PRECIPITATES IN QUENCH-AGED IRON-CARBON ALLOYS SUBJECTED TO CYCLIC STRESSING 67-06 M14-70420

DISLOCATIONS, PRESSURE EFFECTS
EFFECTS OF HYDROSTATIC PRESSURE ON TERMINAL STRUCTURE AND MECHANICAL BEHAVIOR OF BERYLLIUM 67-06 M13-72224

QUANTITATIVE STUDY OF THE SUBSTRUCTURE AND PROPERTIES OF SHOCK-LOADED COPPER 67-12 M13-82860

DISLOCATIONS, RADIATION EFFECTS
MODULUS EFFECTS IN METALS AFTER LOW TEMPERATURE ELECTRON IRRADIATION. PT. 2. AU 67-02 M17-60628
VOIDS AT DISLOCATIONS IN IRRADIATED TUNGSTEN 67-05 M13-69224
INTERACTION BETWEEN RADIATION DEFECTS AND DISLOCATIONS IN GERMANIUM 67-06 M16-71917
MECHANISMS OF RADIATION-INDUCED MECHANICAL PROPERTY CHANGES 67-07 M17-73375
HARDENING IN IRRADIATED COPPER CRYSTALS 67-08 M16-75240
DISSOLUTION SPIRALS ON GAMMA-IRRADIATED LITHIUM FLUORIDE 67-09 M13-77439
SOME MEASUREMENTS OF DISLOCATION DAMPING IN NEUTRON IRRADIATED SILVER 67-09 M14-77671
ROWS OF DISLOCATION LOOPS IN ALUMINIUM IRRADIATED BY ALUMINIUM IONS 67-12 M16-82220
DISLOCATION PINNING IN NEUTRON-IRRADIATED OFHC AND 99.999 PER CENT COPPER 67-12 M16-82546

DISLOCATIONS, STRESS EFFECTS
TRANSMISSION ELECTRON MICROSCOPY STUDY OF COLD WORKED AND ANNEALED STRUCTURES IN ALUMINUM AND TWO ALUMINUM ALLOYS 67-03 M14-65547
STUDY OF DEFORMATION AND CRACKING IN THIN FOILS OF CHROMIUM 67-04 M17-66490
STACKING FAULTS OF ALPHA-URANIUM 67-05 M13-69457
THE MICROSTRUCTURAL CHARACTERIZATION OF COLD-ROLLED ZIRCALOY-4 SHEET 67-06 M13-69928
DISLOCATION DISTRIBUTION IN DEFORMED GERMANIUM 67-06 M13-71538
DISLOCATION STRUCTURES IN COPPER SINGLE CRYSTALS DEFORMED IN HIGH TEMPERATURE CREEP 67-06 M13-71539
DISLOCATION VELOCITIES IN NICKEL SINGLE CRYSTALS 67-07 M13-72658
STRESS DEPENDENCE OF DISLOCATION CONFIGURATION IN DEFORMED NIOBIUM 67-07 M13-73930
THE RELATIONSHIP OF THE DISLOCATION INITIATION STRESS IN TECHNICAL PURITY NICKEL TO TEMPERATURE 67-08 M14-74866
THE DEPENDENCE OF YIELD STRESS ON FOREST DISLOCATION DENSITY IN COPPER SINGLE CRYSTALS 67-09 M13-76598
STRESS FIELDS AROUND THE EDGE DIPOLE IN CD, ZN AND MG ANISOTROPIC CRYSTALS 67-09 M13-77516
DISLOCATION DENSITIES IN DEFORMED CU-AL SINGLE CRYSTALS 67-09 M13-77991
A STUDY OF TENSILE-DEFORMED ALUMINUM BY TRANSMISSION ELECTRON MICROSCOPY 67-10 M14-79288
DISLOCATION MOBILITY IN COPPER 67-12 M13-82368
CONSTANT-LOAD CREEP DATA INTERPRETED IN TERMS OF THE STRESS DEPENDENCE OF DISLOCATION VELOCITY 67-12 M17-82961

DISLOCATIONS, TEMPERATURE EFFECTS
THE ANNEALING OF WEAKLY DEFORMED POLYCRYSTALLINE NICKEL FOILS IN AN ELECTRON MICROSCOPE 67-01 M14-58798
DISLOCATION SUBSTRUCTURE IN STRAIN-CYCLED COPPER AS INFLUENCED BY TEMPERATURE 67-06 M14-70419
DISLOCATION VELOCITY MEASUREMENTS AND THERMALLY ACTIVATED MOTION IN MOLYBDENUM 67-07 M13-73931

DISPERSION
TEMPERATURE DEPENDENCE OF UNIAXIAL ANISOTROPY AND ANISOTROPY DISPERSION IN NI-FE THIN FILMS 67-02 M15-59070

DISPERSION /WAVE/
LATTICE VIBRATIONS OF ALUMINIUM ON THE BASIS OF KREBSS MODEL 67-01 M16-57566
DISPERSION OF TRANSVERSE SOUND IN SUPERCONDUCTORS 67-01 M16-57962
CRYSTAL DYNAMICS OF COPPER 67-07 M16-73937
LONGITUDINAL MAGNETOACOUSTIC EFFECT IN ALUMINUM 67-07 M16-73941
ORIGIN OF THE PERIODIC COMPONENT OF ANISOTROPY DISPERSION IN NI-FE FILMS. PT. 2 67-08 M15-74608
DISPERSION ENERGIES AND SURFACE TENSIONS OF NOBLE METALS 67-08 M16-75384
ANTIFERROMAGNETISM OF GAMMA-FEMN ALLOYS. PT. 3. SPECIFIC HEAT AND THERMOELECTRIC POWER STUDIES 67-12 M15-81763

DISPERSION HARDENING
ULTRASONIC TREATMENT IN METALLURGY AND FOUNDRY PRACTICE 67-01 M01-57153
STRENGTHENING THE ALLOY BRCR BY DEFORMATION IN THE DISPERSION-HARDENING RANGE 67-01 M10-57350
DISPERSION-STRENGTHENED COBALT ALLOYS 67-01 M14-58646
DEVELOPMENT TRENDS IN METALLIC MATERIALS 67-02 M01-60203
DISPERSION HARDENED WROUGHT URANIUM 67-02 M09-60946
HOT EXTRUDED AND COLD ROLLED TEXTURES OF DISPERSION ALLOY, AL-AL2O3 --SAP-- 67-02 M13-59982
RECRYSTALLIZATION OF COLD ROLLED SINTERED ALUMINUM PRODUCTS --S. A. P.-- 67-02 M14-60262
COMPRESSIVE DEFORMATION AND STRUCTURE IN SINTERED ALUMINUM PRODUCTS --S. A. P.-- 67-02 M17-60261
DISPERSION-STRENGTHENED ALUMINUM OXIDE 67-03 M09-65651
DISPERSION STRENGTHENING 67-03 M14-65331
PREPARATION OF METAL-OXIDE DISPERSION COMPOSITES 67-03 M14-65347
STRENGTHENING MECHANISMS--METALS AND CERAMICS 67-03 M17-65328
STRUCTURE AND HIGH-STRENGTH METALS 67-03 M17-65329
DISPERSION-STRENGTHENED CERAMICS 67-03 M17-65336
PREVENTION OF GROWTH OF DISPERSE PARTICLES IN NICKEL 67-04 M10-67340
DISPERSION HARDENING OF STEELS BY THE PRECIPITATION OF NITRIDE PHASES 67-04 M10-67384
MECHANISM OF THE EFFECT OF TEMPERING ON THE CRYSTAL LATTICE PARAMETER OF DISPERSION-HARDENED INVARS 67-04 M13-67652
THE FORMATION, STABILITY AND INFLUENCE OF CARBIDE DISPERSIONS IN CHROMIUM 67-04 M14-66158
INVESTIGATION OF THE AGING KINETICS OF MOLYBDENUM-BASE ALLOYS 67-04 M14-66199
INFLUENCE OF TI, ZR AND HF ON PROPERTIES OF MO-C ALLOYS 67-04 M17-66450
OXIDE DISPERSION-STRENGTHENED NIAL AND FEAL 67-04 M17-66933
ON THE MECHANICAL PROPERTIES OF DISPERSION STRENGTHENED CU-AL2O3 ALLOYS 67-04 M17-67570
HIGH-TEMPERATURE CORROSION RESISTANCE OF DISPERSION-HARDENED NICKEL 67-04 M18-67841
STRUCTURAL TRANSFORMATIONS DURING HEATING OF ALUMINUM OXIDE POWDER 67-05 M09-68392
INVESTIGATION OF PROPERTIES OF EXTRUDED NICKEL-ALUMINUM OXIDE ALLOYS 67-05 M09-68704
OXIDE DISPERSION-STRENGTHENED PLATINUM 67-05 M09-68945
NICKEL-CHROMIUM ALLOYS WITH NIOBIUM 67-05 M17-68360
CONTROL OF THE MECHANICAL PROPERTIES OF NICKEL ALLOYS BY INTERNAL OXIDATION 67-05 M18-68375
HEAT RESISTANT POWDERED-METAL MATERIALS 67-06 M09-70166
LOSS OF STRENGTH DURING ANNEALING OF STRAINED ALLOYS OF NICKEL-ALUMINIUM OXIDE 67-06 M09-72327
WORK HARDENING OF AUSTENITIC ALLOYS BY PHASE AND DISPERSION HARDENING 67-06 M10-71125
AGING IN NIOBIUM-RICH NIOBIUM-HAFNIUM-CARBON ALLOYS 67-06 M10-71411
CONTINUUM PLASTICITY THEORY IN RELATION TO SOLID SOLUTION, DISPERSION AND PRECIPITATION HARDENING 67-06 M10-71715
THE EFFECT OF ULTRASOUND ON THE CRYSTALLIZATION OF METALS AND ALLOYS DURING SOLIDIFICATION AND STRUCTURAL VARIATIONS TAKING PLACE IN THE SOLID STATE 67-06 M14-71112
TITANIUM CARBIDE DISPERSION-STRENGTHENED NICKEL BY INTERNAL CARBURIZATION 67-06 M17-71076
DISPERSION STRENGTHENED METALS--STRONGER AT HIGH TEMPERATURES 67-07 M09-73334
CADMIUM COATINGS REINFORCED WITH SOLID PARTICLES 67-07 M12-73653
TECHNIQUES FOR THE PRODUCTION OF CHROMIUM STEEL AND NICHROME, HARDENED BY FINE REFRACTORY OXIDES 67-08 M09-75461
PRODUCTION AND PROPERTIES OF POWDERED COPPER HARDENED BY DISPERSED PARTICLES OF REFRACTORY COMPOUNDS 67-08 M09-75471
STRENGTHENING OF SILICON MONEL 67-08 M10-74997
DISPERSION STRENGTHENED MATERIALS 67-08 M14-74687

DISPERSION HARDENING

THE INFLUENCE OF PARTICLE SIZE IN DISPERSION HARDENING. STUDIES ON AL-MN AND AL-NI ALLOYS 67-08 M14-75321
STEADY-STATE CREEP OF DISPERSION-STRENGTHENED NICKEL 67-08 M14-75334
PARTICLE COARSENING IN INTERNALLY OXIDIZED SILVER-MAGNESIUM ALLOYS 67-08 M14-75335
PREPARATION AND PROPERTIES OF RARE-EARTH SILICATES AND ALUMINATES 67-08 M14-75999
MECHANICAL PROPERTIES OF HOT EXTRUDED OR HOT PRESSED DISPERSION STRENGTHENED IRONS CONTAINING AL203, MGO AND SIO2 PARTICLES 67-08 M17-74422
HARDENING AND SOFTENING OF NICKEL ALLOYS CONTAINING ALUMINUM OXIDE 67-08 M17-76010
INFLUENCE OF DIFFERENT FACTORS ON STRENGTHENING OF THE KHN35VTYU --EI787-- ALLOY 67-08 M17-76014
DISPERSION STRENGTHENED LEAD FOR CABLE SHEATHING 67-09 M09-76602
PROPERTIES AND APPLICATIONS OF DISPERSION-STRENGTHENED METALS 67-09 M10-76723
DISPERSION-STRENGTHENING IN NIOBIUM-BASE ALLOYS 67-09 M10-77289
STRENGTHENING OF DISPERSION HARDENING ALLOYS SUBJECTED TO HIGH-VELOCITY DEFORMATION 67-09 M14-76442
DISPERSIONED HARDENED AG ALLOYS--NEW MATERIALS FOR ELECTRICAL CONTACTS 67-10 M10-79080
NICKEL- AND COBALT-BASE ALLOYS 67-11 M01-80530
METALS AND ALLOYS CONTAINING DISPERSION INCLUSIONS OF REFRACTORY COMPOUNDS AND FIBERS 67-11 M09-81308
RAPID REAUSTENITIZING OF AN FE-NI-C ALLOY 67-11 M10-81141
MICROSTRUCTURE AND MECHANICAL PROPERTIES OF AN IRON-NICKEL-BASE ALLOY WITH ALUMINIUM AND TITANIUM ADDITIONS AFTER VARIOUS THERMAL AND THERMOMECHANICAL TREATMENTS 67-11 M17-80373
EFFECT OF TITANIUM, ZIRCONIUM, AND HAFNIUM ON THE PROPERTIES OF MOLYBDENUM ALLOYED WITH CARBON 67-11 M17-80991
NEW STRENGTHS FOR OLD METALS 67-12 M01-83002
INFLUENCE OF PARTICLE SIZE ON PROPERTIES OF ALUMINUM POWDERS AND SEMIFINISHED PARTS OF SAP 67-12 M09-82213
THE GROWTH RATE OF DISPERSION PARTICLES IN NICKEL. PT. 1 67-12 M09-82214
PROPERTIES OF EXTRUDED NICKEL-ALUMINA ALLOYS 67-12 M09-82680
STRUCTURE AND MECHANICAL PROPERTIES OF LOW-PER CENT FE DISPERSION-STRENGTHENED AL-FEAL3 ALLOYS FOR NUCLEAR APPLICATIONS 67-12 M09-82807
EFFECTS OF NONUNIFORMITY OF OXIDE DISPERSION ON MECHANICAL PROPERTIES OF SINTERED ALUMINUM POWDER ALLOYS AT ROOM AND ELEVATED TEMPERATURES 67-12 M09-83112
STRENGTH OF ALUMINUM BASE COMPOSITES 67-12 M09-83528
INFLUENCE OF THE NATURE OF OXIDES ON GROWTH RATE OF DISPERSION PARTICLES IN NICKEL. PT. 2 67-12 M09-83560
FATIGUE-INDUCED REVERSION AND OVERAGING IN DISPERSION STRENGTHENED ALLOY SYSTEMS 67-12 M10-83484
RELATIONSHIP BETWEEN STRENGTHENING AND PHASE CHANGES IN HIGH-STRENGTH DISPERSION-HARDENING NON-MAGNETIC STEEL 67-12 M14-82156
CONTRIBUTION TO THE DISPERSION-HARDENING OF AG 67-12 M17-82666
SAP-TYPE ALLOYS SOLID SOLUTION STRENGTHENED WITH MAGNESIUM 67-12 M17-83048

DISPERSION HARDENING, ALLOYING EFFECTS
FACTORS DETERMINING STABILITY AND STRENGTH OF AUSTENITIC AND NI ALLOYS 67-04 M10-66377
FACTORS DETERMINING THE STABILITY AND STRENGTH OF AUSTENITIC AND NICKEL STEELS 67-11 M10-80979

DISPERSION HARDENING, HEATING EFFECTS
INFLUENCE OF TEMPERING ON DISPERSION HARDENING OF HIGH-SPEED STEELS 67-09 M17-77410

DISPERSIONS
SEE ALSO AEROSOLS
EMULSIONS
CALCULATIONS OF DISPERSION CURVES AND SPECIFIC HEAT FOR LIF AND NACL USING THE BREATHING SHELL MODEL 67-11 M14-80616
DISPERSION AND NONMETALLIC POISON MATERIALS 67-11 M16-80470

DISPERSIONS, ALLOYING EFFECTS
DISTRIBUTION OF NICKEL AND CHROMIUM IN VERY HARD ROLL IRON 67-09 M04-77373

DISPERSOIDS
SEE DISPERSIONS

DISPLACEMENT SPIKES
SEE DISPLACEMENTS /LATTICE/
SPIKES /LATTICE DEFECTS/

DISPLACEMENTS /LATTICE/
SEE ALSO CROWDIONS
FRENKEL DEFECTS
INTERSTITIAL DEFECTS
THE INFLUENCE OF SURFACE ACTIVE INHIBITOR, BOTH INCORPORATED AND ADSORBED, ON THE LATTICE DEFORMATION AND EQUILIBRIUM POTENTIAL OF ELECTROLYTICALLY DEPOSITED CU 67-05 M14-69150
SURFACE DISTORTION IN FACE-CENTERED CUBIC SOLIDS 67-08 M16-75383
THE FLOW STRESS OF BODY-CENTERED CUBIC METALS INHERENT LATTICE HARDENING OR SOLUTION HARDENING 67-11 M17-81596

DISPLACEMENTS /LATTICE/, RADIATION EFFECTS
STUDY OF N- AND P-TYPE SILICON EXPOSED TO HIGHLY ENERGETIC RADIATION 67-03 M16-65741
FISSION DAMAGE IN METALS 67-04 M13-67320
ATOMIC DISPLACEMENT AND IMPURITY EFFECTS IN FISSILE METALS 67-04 M16-67321
ATOMIC DISPLACEMENTS IN IRRADIATED EQUIATOMIC AG-AU 67-08 M14-75823

DISPOSAL
SEE SLAG DISPOSAL

DISSIMILAR METALS, BONDING
THE ADHESIVE BONDING OF METALS WITH DIFFERENT COEFFICIENTS OF THERMAL EXPANSION 67-05 M11-68939
MANUFACTURE OF VACUUM VESSELS FOR THE NINA SYNCHROTRON 67-05 M20-68503
DIFFUSION BONDING TECHNIQUES CHANGING AEROSPACE INDUSTRY 67-07 M11-73695
FABRICATION METHODS FOR PBI ADHESIVE BERYLLIUM SANDWICH STRUCTURES 67-10 M11-79436
EXPLOSIVE DONGING 67-12 M11-82989

DISSIMILAR METALS, BRAZING
NEW PRODCUT DESIGNS MAKE GREATER USE OF BRAZING 67-08 M11-76181

DISSIMILAR METALS, CLADDING
EXPLOSIVE TECHNIQUE BONDS DISSIMILAR METALS 67-04 M11-66277
EXPLOSION CLADS 67-05 M12-69165
METALLOGRAPHIC INVESTIGATION OF SHOCK WELDED METALS BY ELECTRON MICROSCOPY 67-05 M13-69166
STRIP CLADDING OF STEEL WITH STAINLESS AND NICKEL BASED ALLOYS. PT. 1. INTRODUCTION AND WELDING RESULTS 67-10 M11-78459

DISSIMILAR METALS, COATING
DISCUSSION OF THE EFFECTS OF METALLIC COATINGS ON THE TORSIONAL RECOVERY OF WIRES 67-04 M17-66543

DISSIMILAR METALS, CORROSION
PREVENTION OF CORROSION 67-08 M18-74601
CORROSION OF MECHANICAL JOINTS IN ALUMINIUM AND ALUMINIUM-STEEL STRUCTURES 67-08 M18-74704
RECOGNITION OF CORROSION HAZARDS TO METALS IN BUILDING 67-08 M18-74705
FUNDAMENTALS OF CONTACT CORROSION WITH PARTICULAR EMPHASIS ON ITS EFFECT ON METALLIC PROTECTIVE COATINGS 67-08 M18-75680
CORROSION RESISTANCE OF STAINLESS STEELS IN AQUEOUS SOLUTIONS. PT. 2 67-10 M18-78399
CORROSION AND CORROSION PRODUCT DEPOSITION IN STEEL-COPPER SYSTEMS WITH CIRCULATING HOT WATER CONTAINING VARIOUS INHIBITORS 67-11 M18-80713

DISSIMILAR METALS, CUTTING
OXYGEN-FLUX CUTTING OF A FOUR-LAYER BIMETAL PIECE 67-03 M08-65056
OXY-FLUX CUTTING OF FOUR LAYER CLAD METAL SANDWICH 67-07 M08-73977

DISSIMILAR METALS, DIFFUSION
MASS-TRANSFER FROM SOLID METAL CYLINDER INTO LIQUID METAL 67-02 M15-61852

DISSIMILAR METALS, JOINING
ADHESIVE BONDING ALCOA ALUMINUM 67-09 M11-78035

DISSIMILAR METALS, WELDING
AUTOMATIC SUBMERGED ARC WELDING OF COPPER TO STEEL OF LARGE THICKNESSES 67-01 M11-58216
DIFFUSION WELDING OF TITANIUM WITH STEEL THROUGH AN INTERLAYER OF VANADIUM 67-01 M11-58217

PICK BRONZE FOR JOINING VERSATILITY. PT. 1
67-01 M11-58652
SPOT WELDING OF DISSIMILAR METALS--BRASS-TERNE PLATE JOINING 67-02 M11-59760
BIMETAL TUBES WELDED IN VOLUME 67-02 M11-61856
ULTRASONICS IN ALUMINUM JOINING
67-04 M11-66248
FUNDAMENTALS OF FRICTION WELDING
67-04 M11-66709
EFFECT OF CHEMICAL COMPOSITION OF FILLER WIRE ON THE STRENGTH OF STEEL-ALUMINUM JOINTS
67-04 M11-66804
DIFFUSION WELDING OF DISSIMILAR METALS
67-04 M11-67629
ELECTRON AND LASER BEAM WELDING--TO DATE AND 1970
67-04 M11-68200
INERTIA WELDING DISSIMILAR METALS
67-05 M11-68603
SPACECRAFT PLUMBING SYSTEMS 67-05 M11-68674
DIFFUSION BONDING BERYLLIUM, MOLYBDENUM AND TUNGSTEN 67-05 M11-68675
FRICTION WELDING AS AN ECONOMICAL METHOD OF PRODUCTION 67-06 M11-72058
SOME FUNDAMENTAL PROBLEMS IN ULTRASONIC WELDING OF DISSIMILAR METALS 67-07 M11-74280
EFFECTS OF THE CHEMICAL COMPOSITIONS OF FILLER WIRES ON THE STRENGTH OF JOINTS BETWEEN STEEL AND ALUMINIUM 67-08 M11-75908
DESIGN AND TESTING OF DISSIMILAR METAL TRANSITION JOINTS EMPLOYING ROLL-BONDED AND FRICTION-WELDED COMPONENTS 67-10 M11-78493
FLYWHEEL FRICTION WELDING AS A DESIGN AND PRODUCTION TOOL 67-10 M11-79196
HOW TO USE COVERED ELECTRODES 67-10 M11-79759
PLATING STEEL TUBES WITH ZIRCALOY-2 TUBES BY SWAGING 67-11 M08-80384
WELDED JOINTS BETWEEN DISSIMILAR MATERIALS
67-11 M11-80800
SOME EXPERIMENTS ON JOINING ALUMINUM TO MILD STEEL BY TIG WELDING 67-12 M11-82134

DISSIPATION
TRANSIENT DETERMINATIONS OF THERMAL DIFFUSIVITIES AND DISSIPATIONS OF METAL FOILS
67-02 M15-61073

DISSIPATION FACTOR
ELECTRICAL PROPERTIES OF AL2O3-NICKEL METAL MULTILAYER FLAME-SPRAYED COATINGS
67-03 M15-65358

DISSOCIATED AMMONIA BRAZING
SEE BRAZING
BRAZING ATMOSPHERES

DISSOCIATION
INVESTIGATION OF SURFACE REACTIONS BY LOW ENERGY ELECTRON DIFFRACTION --LEED--
67-04 M14-67743
DISSOCIATION PRESSURES IN THE SYSTEM YTTERBIUM-YTTERBIUM DIHYDRIDE--A COMPARISON WITH CALCIUM-CALCIUM DIHYDRIDE 67-08 M14-75297
PRODUCTS AND MECHANISM OF THERMAL DISSOCIATION OF MOLYBDENITE 67-09 M03-77058
THE DISSOCIATION OF TUNGSTEN CARBIDE IN A LOW-TEMPERATURE PLASMA JET 67-09 M14-77273
EQUILIBRIUM REACTION OF THE DISSOCIATION AND REDUCTION OF IRON OXIDE PHOSPHATES
67-10 M14-79316

DISSOCIATION, TEMPERATURE EFFECTS
STABILITY OF THE HYDRIDES OF CERTAIN TRANSITION METALS WHEN HEATED IN VACUUM 67-06 M15-70160

DISSOCIATION ENERGY
SEE FREE ENERGY OF FORMATION

DISSOLUTION
SEE DISSOLVING

DISSOLVING
ON THE DISSOLUTION OF ZINC IN CYANIDE SOLUTIONS
67-01 M02-57269
INVESTIGATIONS OF THE KINETICS OF SOLUTION OF PRECIPITATES IN A BINARY ALCU-ALLOY AND THE EFFECT OF ADDITIONS OF MAGNESIUM, MANGANESE, SILICON, ZINC AND IRON 67-01 M14-58223
DISSOLUTION OF METALS BY AC ELECTROLYSIS
67-01 M14-58583
INFLUENCE OF SULFATE IONS ON ANODIC BEHAVIOR OF NICKEL 67-01 M18-58703
ANODIC DISSOLUTION OF NICKEL IN A MELTED MIXTURE OF SODIUM AND POTASSIUM CHLORIDES
67-02 M02-61542
DISSOLUTION OF SILVER AMALGAM IN CYANIDE SOLUTIONS
67-02 M03-62042
CONTRIBUTION TO THE THEORY OF ELECTROCHEMICAL IMPEDANCES. APPLICATION TO A CASE OF ANODIC POLISHING 67-02 M12-59419
DISSOLUTION AND PRECIPITATION OF ALUMINUM NITRIDE IN LOW-ALLOY STEEL 67-02 M14-59944
DETERMINATION OF THE DISSOLUTION RATE OF MATERIALS IN LIQUID METALS 67-02 M14-60978
DISSOLVING GERMANIUM IN HCL WITH OXIDIZERS
67-02 M14-61723
THE ELECTRODE POTENTIAL OF EVAPORATED ALUMINUM FILMS IN CHLORIDE SOLUTION 67-02 M14-61774
ANODIC BEHAVIOR OF COPPER IN NACL AQUEOUS SOLUTIONS
67-02 M18-59739
ON THE FORMATION OF ANODIC FILMS ON CU IN 3 PER CENT NACL AQUEOUS SOLUTIONS 67-02 M18-59740
TEMPERATURE DEPENDENCY OF THE DISSOLUTION KINETICS AND PASSIVATION OF METALS AND ALLOYS. PT. 2. TEMPERATURE DEPENDENCY OF THE DISSOLUTION MECHANISM 67-02 M18-60113
THERMOGRAVIMETRIC INVESTIGATIONS OF SUBSTANCES CONTAINING SULFATE WITH HIGH-TEMPERATURE CORROSION ON THE FIRE SIDE OF COAL-FIRED BOILERS
67-02 M18-62009
CATHODIC POLARIZATION OF METALS AND ALLOYS AND ITS APPLICATION TO THE NUCLEAR INDUSTRY
67-03 M18-65852
DISSOLUTION OF OXYGEN IN IRON-CARBON MELT DURING DECARBURIZATION 67-04 M04-66075
DISSOLUTION OF THE PHASES IN THE NICKEL-GOLD SYSTEM DURING ISOTHERMAL ANNEALING
67-04 M14-66391
ANISOTROPY OF DISSOLUTION OF SI CRYSTALS IN AN AL MELT 67-04 M14-67058
STUDY OF THE REACTION BETWEEN METAL AND MOLTEN SALTS. PT. 1. DISSOLUTION OF COPPER IN MOLTEN BISMUTH TRICHLORIDE 67-04 M15-66275
DISSOLUTION OF THE PHASES IN THE NICKEL-GOLD SYSTEM DURING ISOTHERMAL ANNEALING
67-05 M14-68588
ANODIC DISINTEGRATION OF METALS UNDERGOING ELECTROLYSIS IN AQUEOUS SALT SOLUTIONS
67-05 M18-69475
STUDY ON THE DISSOLUTION OF SUSPENDED OXIDE PARTICLES IN MOLTEN IRON 67-06 M04-71746
MIXING OF LIQUID STEEL AND DISSOLUTION OF FERROALLOYS DURING OH DEGASSING. PT. 11. APPLICATION OF RADIOACTIVE ISOTOPES IN STEELMAKING 67-06 M04-72270
DISSOLUTION KINETICS OF NUCLEAR FUELS. PT. 1. URANIUM 67-06 M14-70480
THORIUM 67-06 M14-70481
THE DISSOLUTION MECHANISM OF ZINC-FERRITE. PT. 4. STUDY ON ZINC-FERRITE 67-06 M14-71735
THE PROMOTION OF ACID DISSOLUTION OF ZINC-FERRITE. PT. 5. STUDY ON ZINC-FERRITE 67-06 M14-71736
SOLUTIONS OF CARBON AT HIGH PRESSURE
67-06 M14-72085
ON THE FORMATION OF AL PLUS IONS DURING THE ANODIC DISSOLUTION OF ALUMINUM 67-06 M14-72191
ANODIC BEHAVIOR OF GAAS SINGLE CRYSTALS AT INCREASED CURRENT DENSITIES IN ALKALINE AND ACIDIC SOLUTIONS 67-06 M15-71148
PILOT PLANT DEVELOPMENT OF AN ELECTROLYTIC DISSOLVER FOR STAINLESS STEEL ALLOY NUCLEAR FUELS
67-06 M16-71019
DISSOLUTION AND PRECIPITATION OF ALUMINIUM NITRIDE IN LOW-ALLOY STEEL 67-07 M14-72599
THE ANODIC DISSOLUTION OF CADMIUM
67-07 M14-73448
GALLIUM ARSENIDE ELECTRODE BEHAVIOR
67-07 M14-73455
KINETICS AND MECHANISM OF THE DISSOLUTION OF URANIUM DIOXIDE 67-07 M15-74261
KINETICS AND MECHANISM OF THE ELECTRODE REACTIONS ON IRON IN NITRATE SOLUTIONS 67-08 M14-74789
THE SOLUTION OF CARBON IN LIQUID RAW IRON
67-08 M14-75067
DISSOLUTION OF COMMERCIALLY AVAILABLE SILICON NITRIDE INTO LIQUID IRON 67-08 M14-75305
KINETIC STUDIES OF THE DISSOLUTION OF BRASS
67-08 M14-75400
INVESTIGATION OF THE DISSOLUTION KINETICS OF METALS IN METALLIC MELTS BY THE ROTARY DISK METHOD --CU-PB SYSTEM--
67-09 M14-76428
DETERMINATION OF THE ACTIVITY COEFFICIENT AT 1600 C. OF URANIUM IN AN INFINITELY DILUTE SOLUTION IN LIQUID IRON BY STUDYING A HETEROGENEOUS EQUILIBRIUM 67-09 M15-77680
KINETICS OF DISSOLUTION OF SYNTHETIC COVELLITE IN AQUEOUS ACIDIC FERRIC SULPHATE SOLUTIONS

DISSOLVING

67-10 M02-79949
DISSOLUTION OF ALLOYING ELEMENTS IN ELECTROSLAG REMELTING 67-10 M04-79317
INTERACTION KINETICS OF PB, AG AND AG-PD ALLOYS WITH CYANIDE SOLUTION 67-10 M14-79131
THE ANODIC DISSOLUTION OF ELECTRODEPOSITED NICKEL 67-10 M14-79966
METALLOGRAPHIC OBSERVATIONS ON SPECIMENS OF A PLATINUM MELT STRONGLY OVERHEATED IN GRAPHITE CRUCIBLES 67-11 M14-80701
THE EFFECT OF THE DISLOCATION STRUCTURE ON THE DISSOLUTION OF CRYSTALS 67-11 M14-80841
DISSOLUTION OF MANGANESE IN ACID ELECTROLYTES 67-11 M15-81280
KINETICS OF THE SOLUTION OF NIOBIUM IN IRON-CARBON ALLOYS 67-12 M14-82403
ANODIC DISSOLUTION OF ZINC IN POTASSIUM NITRATE 67-12 M14-82455

DISSOLVING, ALLOYING EFFECTS
THE DISSOLUTION, PRECIPITATION AND AGE HARDENING EFFECT OF NIOBIUM IN PLAIN CARBON STEEL. PT. 1 67-09 M14-76797
CHEMICAL POLISHING OF FE-SI ALLOYS 67-11 M12-80321

DISSOLVING, TEMPERATURE EFFECTS
THE CORROSION BEHAVIOR OF AL IN PHENOL 67-02 M18-60985

DISTANCE
SEE INTERATOMIC DISTANCE

DISTILLATION
SEE ALSO SUBHALIDE DISTILLATION
VACUUM DISTILLATION
COMPARATIVE EFFICIENCY OF SUBHALIDE REFINING OF ALUMINUM 67-02 M03-60538
VOLATILIZATION OF ZINC FROM POLYMETALLIC CONCENTRATES SIMULTANEOUSLY WITH FLUIDIZED BED OXYGEN SMELTING 67-02 M03-60955
CONTRIBUTION TO THE STUDY OF THE PURIFICATION OF BERYLLIUM BY SUBLIMATION AND DISTILLATION 67-03 M03-65241
THE ZRCL4-HFCL4 SYSTEM--SEPARATION OF ITS COMPONENTS BY RECTIFICATION 67-06 M03-71393
AN ECONOMIC AND TECHNICAL EVALUATION OF MAGNESIUM PRODUCTION METHODS. PT. 2. CARBOTHERMIC 67-07 M03-74199
INVESTIGATION OF THE DEEP REFINEMENT OF CADMIUM AND ZINC BY RECTIFICATION AND ZONE MELTING 67-09 M03-76982
METHOD AND DEVICE FOR RECIRCULATORY HEATING OF ZINC RECTIFICATION COLUMNS 67-11 M03-81621
SEPARATION OF VANADIUM OXYCHLORIDE FROM TITANIUM TETRACHLORIDE AND OTHER IMPURITIES BY DISTILLATION 67-12 M02-82111

DISTILLATION APPARATUS /LABORATORY/
SEPARATION OF VANADIUM OXYCHLORIDE FROM TITANIUM TETRACHLORIDE AND OTHER IMPURITIES BY DISTILLATION 67-12 M02-82111

DISTORTION
DISTORTION OF PARTS DURING HEAT TREATMENT 67-02 M10-59805
CONTINUOUS CASTING 67-04 M03-67910
EFFECT OF SHORT HEATING PERIODS ON THE MECHANICAL PROPERTIES OF 20S SHEET STEEL 67-04 M17-67969
DISTORTION IN THE CRYSTAL STRUCTURE OF ALPHA-MN203 67-06 M13-71996
SURFACE DISTORTION IN FACE-CENTERED CUBIC SOLIDS 67-08 M16-75383
SOME CHARACTERISTICS OF THE CHEMICAL BOND IN MULTICOMPONENT SEMICONDUCTING COMPOUNDS 67-11 M16-80174

DISTORTION, HEATING EFFECTS
CHANGES OF FINE STRUCTURE OF ALUMINUM POWDERS WHILE HEATING IN OXIDIZING AND INERT MEDIA 67-12 M09-82202

DISTRIBUTION
COMPARISON OF THE ATOMIC DISTRIBUTION FUNCTIONS OF LIQUID AND SOLID METALS 67-12 M16-83005

DISTRIBUTION /MATERIAL/
MATHEMATICAL AND EMPIRICAL DETERMINATION OF THE DISTRIBUTION COEFFICIENT OF ZINC IN ALUMINUM 67-12 M14-81783

DISTRIBUTION /MATERIAL/, IMPURITY EFFECTS
ON THE CONCENTRATION DEPENDENCE OF THE DISTRIBUTION COEFFICIENTS DURING DIRECTIONAL CRYSTALLISATION 67-12 M13-82148

DOEHLER DOUBLE PLATING
SEE DUPLEX PLATING
NICKEL PLATING

DOLOMITE
LIFE OF RESIN-BONDED DOLOMITE REFRACTORIES IN CONVERTER LININGS 67-06 M05-70207
TAR-DOLOMITE-MAGNESITE BRICK BASED ON DOLOMITE FROM THE ALEKSEEV SITE 67-07 M05-72608

DOLOMITE, BASIC REFRACTORIES
THE LD-AC WORKS OF ARBED-ESCHBELVAL 67-05 M04-68539

DOLOMITE, GRAIN GROWTH
EFFECT OF GRAIN FORM ON THE PROPERTIES OF TAR-DOLOMITE PIECES 67-08 M14-75598

DOLOMITE, LIFE
CONVERTERS AND LANCES AT THE BAGNOLI WORKS --OF ITALSIDER-- 67-06 M05-71949
PROLONGING LINING LIFE IN AN LD VESSEL 67-06 M05-71951

DOLOMITE, SINTERING
SIZED LIMESTONE FOR IRON ORE SINTERING 67-01 M02-57510

DOLOMITE, STEEL MAKING
CHANGE IN CHEMICAL MINERALOGICAL COMPOSITION OF TAR-BONDED MAGNESIA REFRACTORIES IN OXYGEN CONVERTERS 67-10 M05-79817

DOLOMITE, THERMAL PROPERTIES
INVESTIGATION OF THE VARIATION IN PROPERTIES OF PERMANENT TAR-DOLOMITE LININGS IN A BASIC CONVERTER AS A FUNCTION OF OPERATING STRESSES 67-07 M04-73266

DOMAIN WALLS
FERROMAGNETIC DOMAIN WALL INTERACTIONS USING LORENZ ELECTRON MICROSCOPY 67-03 M15-65893
LORENTZ MICROSCOPY OF GROWING DOMAINS IN PERMALLOY FILMS 67-03 M15-65899
MAGNETORESISTANCE AND EFFECT OF BLOCH WALLS IN ZONE-MELTED IRON 67-04 M15-67259
PREFERRED ORIENTATION AND DOMAIN STRUCTURE OF IRON FILMS DEPOSITED ON --100-- COPPER SUBSTRATES 67-06 M14-70992
INTERACTION BETWEEN DISLOCATIONS AND BLOCK WALLS WITH FIXED MAGNETIZATION 67-06 M15-70989
REVIEW OF WALL CREEPING IN THIN MAGNETIC FILMS 67-06 M15-71417
INTERNAL AND EXTERNAL INTERFACES 67-07 M13-73676
MICROMAGNETIC TREATMENT OF THE INTERACTION BETWEEN DISLOCATIONS AND BLOCH WALLS 67-07 M15-72953
DOMAIN-WALL MOTION IN GRAIN-ORIENTED SILICON STEEL IN CYCLIC MAGNETIC FIELDS 67-07 M15-73517
DIRECT OBSERVATION OF DOMAIN-WALL MOVEMENTS IN MNBI FILMS 67-07 M15-73557
MAGNETOELASTIC INTERACTION OF DISLOCATIONS AND FERROMAGNETIC DOMAIN WALLS AND TORSIONAL MICROCREEP EXPERIMENTS ON IRON AND NICKEL TUBES 67-07 M15-73565
AVERAGE RIPPLE-ANGLE MAGNITUDE, WALL PINNING, AND SUSCEPTIBILITY IN THIN PERMALLOY FILMS 67-07 M15-73569
CALCULATIONS OF THE STRUCTURE OF NEEL, BLOCH, AND INTERMEDIATE WALLS AND THE INFLUENCE OF THEIR 67-07 M15-73573
PROPERTIES OF MANGANESE-PERMALLOY FILMS 67-07 M15-73590
INVESTIGATION OF WALL ENERGY DOMAINS ON PERMINVAR FERRITES 67-07 M15-73803
DOMAIN WALL CREEPING IN UNIPOLAR NANOSECOND PULSE FIELDS 67-07 M15-73808
THE MECHANISM OF DEFORMATION OF THE ORDERED CUAU ALLOY 67-10 M14-79005
X-RAY DIFFRACTION CONTRAST ON FERROMAGNETIC DOMAIN WALLS IN FE-SI SINGLE CRYSTALS 67-10 M15-79012
EVIDENCE FOR DOMAIN-WALL COMPRESSIBILITY IN PERMALLOY WIRE 67-11 M15-80126
DYNAMIC HYSTERESIS LOOPS IN THIN FILMS OF SI-FE ALLOY 67-12 M15-82223
DEPENDENCE OF PERMEABILITY OF GRAIN ORIENTED IRON-SILICON SHEET ON MAGNETIZATION FREQUENCY 67-12 M15-82224
THE RAYLEIGH REGION IN NICKEL 67-12 M15-82225

DOMAIN WALLS, CRYSTAL LATTICES
EFFECTS OF STRAIN, PREFERRED ORIENTATION, AND LOCAL CRYSTALLITE SIZE VARIATION ON NEEL AND CROSS-TIE DOMAIN WALLS 67-07 M15-72642

DOMAINS
SEE ALSO FERROELECTRIC DOMAINS
MAGNETIC DOMAINS
ANTI-PHASE DOMAINS AND DISLOCATION CONFIGURATIONS IN THE FE-13 AT. PER CENT SI ALLOY

67-07 M13-73146
ANTIPHASE BOUNDARIES AND DOMAINS
67-07 M13-73674
OBSERVATIONS OF DEFECTS IN BETA BRASS
67-07 M13-73919
DOMAIN STRUCTURE OF ORDERED EQUIATOMIC PT-CO OBSERVED IN THE FIELD-ION MICROSCOPE
67-07 M14-72629

DOMES, FORMING
HEMISPHERE FORMING SMOOTHER VIA FLUID METHOD
67-05 M07-68802
CONTROL OF SPRINGBACK BY POSITIVE EDGE RESTRAINT DURING HIGH ENERGY DEFORMATION
67-10 M08-79527

DONORS /ELECTRONIC/
DISTRIBUTIONS OF ELECTRICALLY ACTIVE DEFECTS IN THE SURFACE REGION OF CDS SINGLE CRYSTALS
67-03 M16-65806
IONIZATION ENERGY AND IMPURITY BAND CONDUCTION OF SHALLOW DONORS IN N-GALLIUM ARSENIDE
67-04 M16-66510
MAGNETO-OPTICAL STUDY OF HYDROGENIC DONOR IMPURITY STATES IN INSB
67-04 M16-66758
RAMAN SCATTERING FROM DONOR AND ACCEPTOR IMPURITIES IN SILICON
67-06 M16-71100
THE EFFECT OF WATER PRESSURE ON THE EXCESS DONOR CONCENTRATION IN GAP GROWN FROM THE VAPOR PHASE IN SILICA TUBES
67-06 M16-71143
DONOR AND CARRIER DISTRIBUTIONS IN OXYGEN-GROWN GAAS
67-06 M16-71144
SIMULTANEOUS DIFFUSION OF GA AND AS INTO SILICON FROM A GAAS SOURCE
67-11 M14-80535
NONOHMIC PROPERTIES IN N-TYPE INSB
67-12 M15-81767
ABOUT THE ROLE OF MINORITY CARRIERS IN THE IMPURITY CONDUCTION OF GASB
67-12 M16-82014

DOPES, ELECTRICAL PROPERTIES
IDEAL MOS CURVES FOR SILICON
67-01 M15-57221

DOPING
EFFECT OF HEAVY DOPING ON THE SEMICONDUCTOR BAND STRUCTURE
67-07 M16-74204
MICROHARDNESS AND ITS ANISOTROPY IN SINGLE CRYSTALS OF GERMANIUM ALLOYED WITH VARIOUS ADDITIVES
67-08 M17-75445
ELECTRON-BEAM PURIFICATION OF VANADIUM
67-10 M03-79987
ABSORPTION-LINE BROADENING IN BORON-DOPED SILICON
67-11 M15-80331
SOLUBILITY EFFECTS OF IMPLANTED IONS IN SEMICONDUCTORS
67-11 M16-81204
PHOTOCONDUCTIVITY OF CHROMIUM-DOPED GALLIUM ARSENIDE
67-12 M15-82363
ELECTRONIC PROPERTIES OF SODIUM-DOPED CARBONS P 1621-1624
67-12 M16-83195

DOPING /ADDITIVES/
SEE ADDITIVES

DOPPLER EFFECT
A MEASUREMENT OF THE TEMPERATURE COEFFICIENT OF THE EFFECTIVE RESONANCE INTEGRAL FOR URANIUM CARBIDE
67-09 M16-76456

DOPPLER SHIFT
SEE DOPPLER EFFECT

DOUBLE REFRACTION
SEE BIREFRINGENCE

DRAGS /MOLDS/
SEE SAND MOLDS

DRAW BENDING
USING THE FLOW RULE IN ANALYZING THE PROCESSES OF SHEET METAL STAMPING
67-04 M08-67039
COLD BENDING
67-06 M08-70022
TOOLING FOR ACCURATE EXTRUSION BENDING
67-07 M07-72797

DRAW DIES
COPPER WIRE. PT. 5. DRAWING DIES
67-02 M07-59828
DRAWING NON-FERROUS TUBING ON BLOCKS
67-03 M07-65928
THE DRAWING OF DEEP, CONE-SHAPED BODIES ON A MULTIPLE-DIE PRESS
67-06 M08-71563
HOW TO GET MORE PAD PRESSURE IN DRAW DIES
67-08 M20-74465

DRAW DIES, COATING
COMBATTING WEAR PROBLEMS IN WIRE DRAWING OPERATIONS
67-02 M08-58974

DRAW DIES, LUBRICATION
LUBRICANTS FOR BLANKING, STAMPING AND DRAWING
67-08 M08-75943

DRAW FORMING
SEE METAL DRAWING
METAL FORMING

DRAWABILITY
THE INFLUENCE OF THE PRODUCTION PROCESS ON EARING WITH BRASS
67-01 M08-57285
TEXTURES AS CAUSES OF EARING
67-01 M08-57286
THE INFLUENCE OF THE HEAT TREATMENT OF INGOTS AND SLABS ON THE EARING OF ALUMINUM SHEET OF DIFFERENT PURITIES
67-01 M08-57287
ON TESTING DRAW PROPERTIES OF THIN-SHEET METALS ON PTL-10 AND MTL-10 TESTERS
67-01 M17-57246
PRESS FORMABILITY OF 2S ALUMINUM AND PURE COPPER
67-01 M17-58331
DEEP DRAWING
67-04 M07-66144
INFLUENCE OF COLD PLASTIC DEFORMATION AND ANNEALING ON MECHANICAL PROPERTIES OF COLUMBIUM SHEET
67-04 M17-66446
THE DEEP DRAWING BEHAVIOR OF SEMIHARD CU AND ALPHA BRASS
67-04 M17-67082
HIGH-SPEED DEEP DRAWABILITY OF THE PURE ALUMINUM SINGLE CRYSTALS
67-04 M17-67584
SURFACE ROUGHNESS OF LOW-CARBON LIGHT GAGE COLD ROLLED STEEL AND ITS EFFECT ON THE STAMPING-DRAWING PROCESS
67-05 M08-69696
THE EFFECT OF MATERIAL PROPERTIES ON DISHING AND DEEP DRAWING WITH CONSIDERATION OF DEEP DRAW TESTING
67-06 M07-70453
THE DEEP DRAW TESTING OF SHEET METAL
67-06 M08-71564
SURFACE ROUGHNESS OF LOW-CARBON COLD-ROLLED SHEET STEEL AND THE EFFECT OF ROUGHNESS ON THE STAMPING-ELONGATION PROCESS
67-07 M08-74082
EFFECT OF TWO-STAGE COLD ROLLING ON THE DEEP DRAWABILITY OF LOW-CARBON RIMMED STEEL SHEET
67-07 M17-72443
AN ESTIMATING METHOD OF THE DEEP DRAWABILITY OF ALUMINIUM SHEET
67-08 M17-75767
THE PRESS FORMABILITY OF ALUMINIUM AND ITS ALLOYS
67-09 M08-76680
COMPARISON OF DEEP DRAWING TESTS --RESULTS OF COOPERATIVE TESTING PROGRAM OF WORKING GROUP III OF THE INTERNATIONAL DEEP DRAWING RESEARCH GROUP--
67-09 M17-76382
THE TESTING OF COLD ROLLED SHEET BY FUSION-CUP TEST ACCORDING TO DIN 50152
67-09 M17-78190
PRACTICAL HINTS FOR COLD DRAWING
67-10 M07-79756
EFFECT OF MECHANICAL PROPERTIES OF SHEET STEEL ON THE SPRINGBACK OF PRESS-FORMED PARTS
67-11 M17-80503
THE PLASTIC ANISOTROPY RATIO R AND THE WORK HARDENING EXPONENT N IN RELATION TO THE DRAWABILITY OF SHEET METAL
67-11 M17-80716
EFFECT OF COLD PLASTIC DEFORMATION AND ANNEALING ON THE MECHANICAL PROPERTIES OF SHEET NIOBIUM
67-11 M17-80987
STUDY OF WALL BREAK IN DEEP-DRAWING
67-12 M08-81744

DRAWABILITY, ALLOYING EFFECTS
JOUVENCEL.. A ZERO CARBON STEEL
67-09 M07-77108
INFLUENCE OF PHOSPHORUS AND COPPER ON THE ANISOTROPY AND DRAWABIILTY OF EXTRAMILD RIMMED STEEL
67-12 M17-83229

DRAWABILITY, COMPOSITION EFFECTS
DRAWABILITY OF LOW-CARBON NITROGEN-ALUMINUM STEELS
67-09 M17-76759

DRAWABILITY, HEATING EFFECTS
METALLURGICAL IMPROVEMENTS IN THE QUALITY OF COLD ROLLED RIMMED STEEL SHEET IN DEEP-DRAWING QUALITY
67-06 M17-72293
HEAT TREATMENT AND DESCALING OF WIRE ROD IN VACUO
67-07 M10-72715
LOW-TEMPERATURE RECOVERY PRIOR TO RECRYSTALLIZATION OF AL-KILLED DEEP DRAWING STEEL
67-08 M14-74512

DRAWABILITY, IMPURITY EFFECTS
EFFECT OF RESIDUALS IN STEEL FOR WIRE
67-06 M04-72023

DRAWING
SEE ALSO COLD DRAWING
DEEP DRAWING
DIE DRAWING
HOT DRAWING
METAL DRAWING
WIRE DRAWING
STUDY OF TUBE DRAWING ON A CONTINUOUS DRAWING MILL
67-01 M07-58185
FABRICATION OF TUNGSTEN AND TUNGSTEN-25 PER CENT-RHENIUM TUBING
67-01 M07-58584

DRAWING
PRODUCING THIN-WALLED PIECES FROM MELT WITH AIR-BLOWING 67-02 M03-61561
TESTS IN SIMULATING THE CLOSING OF DEFECTS DURING SWAGING AND DRAWING OF LOW-DUCTILE STEEL 67-02 M07-59822
EXPERIMENTAL INVESTIGATION OF THE RATIO OF INDENTATION FORCE AND DRAWING FORCE IN GROOVING RODS 67-02 M07-60086
IMPROVED PROCESS FOR DRAWING, CLEANING AND PRECISION WINDING OF COAXIAL CENTERWIRE 67-05 M07-68672
COMBINATION DRAWING OF LIGHT-GAGE MATERIAL 67-05 M07-69440
DISTRIBUTION OF DEFORMATION IN DRAWING LARGE FORGINGS 67-05 M17-69436
DRAWING TUBES AND BARS ON ONE BENCH 67-07 M07-74154
CALCULATING WIRE-DRAWING FORCE FROM THE PLASTIC DEFORMATION WHEN STRIP IS DRAWN 67-08 M07-76074
DIE DESIGN FOR DRAWING AND EXTRUSION 67-09 M08-77803
HOW TO FORM AND FABRICATE PRECOATED METALS. PT. 2 67-10 M01-79197
MATERIAL FLOW IN THE HOLLOW DRAWING OF TUBES 67-10 M07-78590
ULTRASONICS MAKES BIG IMPACT ON TUBE DRAWING 67-12 M07-82471
DRAWING, AUTOMATION
DRAWING OPERATIONS ON SHEET MAGNESIUM 67-10 M08-78503
DRAWING, LUBRICANTS
IN DRAWING, BLANKING, STAMPING--SELECTING THE PROPER PRESS LUBRICANT 67-07 M08-74263
DRAWING /HEAT TREATMENT/
SEE TEMPERING
DRAWING DIES
SEE DIES
DREDGES, WELDING
BUILDING UP THE ROTORS OF SUCTION DREDGERS WITH WEAR-RESISTANT METAL 67-11 M11-81583
DRESSING /MOLDS/
SEE MOLD DRESSING
DRESSING /ORE/
SEE BENEFICIATION
DRESSING /TRIMMING/
SEE TRIMMING
DRESSING /WHEELS/
SEE WHEEL DRESSING
DRIFT
UNIT-CUBE EXPRESSION FOR SPACE-CHARGE RESISTANCE 67-08 M16-75708
DRILL BITS
SEE ALSO CORING BITS
TWIST DRILLS
DRILL BITS, CASTING
DIMENSIONAL ACCURACY AND SURFACE FINISH OF CAST ROCK BITS 67-02 M06-61194
CENTRIFUGAL CASTING OF DRILL BITS 67-09 M06-77961
DRILL BITS, FORGING
EXPERIMENTAL STAMPING OF ROTARY-TYPE TOOTHED DRILL BITS 67-10 M07-78547
DRILL BITS, FORMING
MECHANIZED STRAIGHTENING OF HIGH-SPEED STEEL DRILLS DURING THE QUENCHING PROCESS 67-02 M08-61259
DRILL BITS, MECHANICAL PROPERTIES
STRUCTURE AND CUTTING PROPERTIES OF SMALL SIZE DRILL BITS OF R18 TOOL STEEL 67-02 M17-59774
STRUCTURE AND CUTTING PROPERTIES OF SMALL DRILLS MADE OF R18 STEEL 67-08 M17-76133
DRILL BITS, POWDER METALLURGY
INVESTIGATION OF THE PRODUCTION OF CERMET PARTS WITH VARIABLE PHYSICAL AND MECHANICAL PROPERTIES 67-02 M09-60178
FEASIBILITY OF MANUFACTURE OF HARD-ALLOY PARTS WITH VARIABLE PHYSICO-MECHANICAL PROPERTIES 67-09 M09-76911
DRILL BITS, SURFACE FINISHING
DIAMOND LAPPING A CUTTING INSTRUMENT MADE OF HIGH-SPEED STEEL 67-01 M08-57336
DRILL STEELS
SEE TOOL STEELS
DRILLING
SEE ALSO CORING
GUN DRILLING
ROTARY DRILLING
MANUALLY PROGRAMED DRILLING AND MILLING OPERATIONS WITH A NUMERICALLY CONTROLLED TURRET DRILLING MACHINE 67-01 M08-58723
MACHINING TESTS WITH SINTERED MOLYBDENUM USING TURNING AND DRILLING OPERATIONS 67-02 M08-60223
DIAMOND TOOLS SHAPE TWO-MILE TUBE 67-02 M08-61003
MACHINING DAMAGE STUDIES IN BERYLLIUM 67-03 M08-65294
316SM 67-03 M08-65863
THE MACHINE TOOL, AND SPEEDS AND FEEDS 67-05 M08-68508
RECOMMENDATIONS FOR DRILLING TOUGH MATERIALS 67-05 M08-69798
DRILL HOLE QUALITY IN DRILLING WITH TWIST DRILLS 67-06 M08-70044
GAS-BORNE ABRASIVE CUTS BRITTLE MATERIALS 67-06 M08-71205
GUN DRILLING LOWERS COST OF MACHINING DIE CAST DIES 67-06 M08-71589
LIQUID STREAMS DRILL HOLES IN TOUGH METALS 67-07 M08-73308
NEW PROCESS DRILLS DIFFICULT HOLES 67-08 M08-74454
THE DRILLING AND THE REAMING OF ALUSIL 67-08 M08-75376
DRILLING CAST HEAT RESISTANT STEELS WITH HIGH-SPEED COBALT AND MOLYBDENUM STEEL DRILLS 67-09 M08-76444
DRILLING OF DIAMONDS USING ELECTRON BEAMS 67-10 M08-78867
DRILL DESIGN AND APPLICATION REQUIREMENTS FOR OPTIMUM COOLANT-FEEDING TWIST DRILL USAGE 67-10 M08-79504
APPLICATION OF CUTTING FLUIDS IN DRILLING 67-10 M08-79505
PROGRESS REPORT ON PULSATING COOLANT PRESSURES IN OIL HOLE OR COOLANT-FED DRILLS 67-10 M08-79506
THERMAL ELECTRON BEAM MACHINING OF DIAMOND AND ALUMINA CERAMICS 67-10 M08-79507
NEW NONCONVENTIONAL MACHINING PROCESS 67-10 M08-79514
BREAKING TORQUE OF TAPS 67-12 M17-82300
DRILLING, AUTOMATION
NEW METHODS OF DRILLING DIAMOND DIES--ULTRASONICS AND LASER BEAMS 67-10 M08-78571
DRILLING, ULTRASONICS
DIAMONDS BROADEN ULTRASONIC MACHINING 67-09 M08-77028
DRILLING RIGS, HEAT TREATMENT
ACCELERATION OF TEMPERING OF 36G2S AND 38KHNM STEEL PIPES BY INDUCTION HEATING 67-08 M10-76113
DRILLING RIGS, MECHANICAL PROPERTIES
FOR HIGH FATIGUE STRENGTH, SELECT A STRONG STEEL 67-10 M17-78633
DRILLING RIGS, STRUCTURAL MATERIALS
COMMERCIAL PRODUCTION OF PROFILES OF 40 STEEL WITH AUSROLLING 67-07 M10-73788
INDUSTRIAL PRODUCTION OF ROLLED SECTIONS OF 40 STEEL WITH THERMOMECHANICAL TREATMENT 67-09 M10-76551
INFLUENCE OF ALLOYING ELEMENTS ON PROPERTIES OF STRUCTURAL CR-MN STEELS 67-09 M17-77406
A HIGH-TENSILE STEEL FOR DRILL AND DRIVE PIPES 67-10 M17-78924
DRILLING RIGS, WELDING
HEAT TREATMENT OF HIGH-STRENGTH WELDED DRILLING TUBES 67-08 M10-74376
WELDING DRILL PIPES OF HIGH-STRENGTH STEELS 67-08 M11-75408
PROBLEM OF MECHANIZED WELDING OF DRILL PIPES MADE OF D BRAND STEEL 67-09 M11-76845
HEAT TREATMENT OF HIGH STRENGTH WELDED JOINTS IN DRILLING TUBES 67-12 M10-82249
THE WELDING OF DRILL TUBES MADE OF HIGH TENSILE STEELS 67-12 M11-82029
DRILLS
SEE ALSO CORING BITS
DRILL BITS
TWIST DRILLS
DRILL LIFE.. A MEANINGFUL TEST 67-03 M08-65617
DRILLS, WEAR
DRILLING CAST HEAT RESISTANT STEELS WITH HIGH-SPEED COBALT AND MOLYBDENUM STEEL DRILLS 67-09 M08-76444
DRIVES
SEE HYDRAULIC DRIVES
TORQUE CONVERTERS
TRANSMISSIONS /AUTOMOTIVE/

DROP FORGING
NEW WAYS TO SHAPE HIGH-STRENGTH STEELS--STRETCHING, CONTOURING AND DROP-HAMMERING 67-01 M08-58758
MECHANIZING THE PROCESS OF DROP FORGING CRANKSHAFTS 67-02 M07-59825
PRODUCING RING FORGINGS 67-02 M07-59827
PLANT MODERNIZATION AT GEORGE TURTON PLATTS 67-04 M07-66406
DROP FORGING 67-04 M07-67371
THE PRINCIPAL CAUSES OF THE INCREASING USE OF DROP FORGINGS IN MODERN MACHINE CONSTRUCTION 67-04 M07-68056
DROP FORGING. A SURVEY OF THE INDUSTRY IN THE U. K. 67-07 M07-72759
HEATING IN THE DROP FORGE. PT. 3. THE CASE FOR ELECTRICITY 67-07 M07-72761
HEATING IN THE DROP FORGE. PT. 4. FORMATION AND PROPERTIES OF SCALES ON IRON-BASE ALLOYS 67-07 M07-73618
HEATING IN THE DROP FORGE. PT. 5. FURNACE REFRACTORIES 67-08 M04-74362
PRODUCING FORGINGS FROM CONTINUOUSLY CAST RECTANGULAR BILLETS 67-08 M07-75488
EXPERIENCE WITH THE WORKABILITY OF THE CONTINUOUS-CAST SEMIPRODUCT 67-12 M04-81928
BOLT PRODUCTION METHODS 67-12 M07-82833
DROP FORGINGS, HEAT TREATMENT
DROP FORGERS INSTALL NEW HEAT-TREATMENT PLANT 67-06 M10-71824
DROP HAMMERS
PLANT MODERNIZATION AT GEORGE TURTON PLATTS 67-04 M07-66406
DROP TESTS
SEE IMPACT TESTS
DROP WEIGHT TESTS
THE MECHANICAL PROPERTIES OF ZINC SINGLE CRYSTALS AT HIGH STRAIN RATES 67-06 M17-71410
THE COMPUTATION OF VIBRATIONS, FORCES AND COMPRESSIONS DURING DROP FORGING TESTS 67-08 M17-75570
DROSSING
DECOPPERING OF LEAD 67-07 M03-73881
OXIDE DROSS IN ALUMINIUM BRONZES 67-09 M03-77799
DROSSING, ALLOYING EFFECTS
DROSS FORMATION IN ALUMINUM AND ALUMINUM ALLOY MELTS IN RELATION TO THE OXYGEN SUPPLY 67-04 M03-67063
DRUMS /CONTAINERS/, CORROSION
METAL CONTAINERS FOR THE TRANSPORTING AND STORAGE OF CHEMICALS 67-03 M20-65728
DRY CLASSIFIERS
SEE CYCLONE SEPARATORS
DRY MOLDING
SEE MOLDING /PROCESS/
DRY SAND CASTING
MANUFACTURE OF SPHEROIDAL GRAPHITE IRON CASTINGS IN A JOBBING FOUNDRY 67-06 M06-72186
GAS POROSITY IN STEEL CASTINGS 67-06 M06-72188
DRYING
SEE ALSO DEHYDRATION
INVESTIGATION OF THE DRYING PROCESS OF IRON-ORE PELLETS 67-06 M02-70118
THE DRYING OF STEEL-PLANT CASTING LADLES 67-10 M04-79718
DUAL NICKEL PLATING
SEE DUPLEX PLATING
NICKEL PLATING
DUCTILE BRITTLE TRANSITION
STRUCTURAL TRANSFORMATIONS IN BETA BRASS 67-01 M14-57358
EFFECT OF THE SUBSTRUCTURE OF FERRITE ON THE CRITICAL TEMPERATURE OF BRITTLENESS OF MILD STEELS 67-01 M17-57150
PROPERTIES OF STEEL PLATES --SUMITEN 60-- HAVING TENSILE STRENGTH OF 60 KG/MM2 67-01 M17-58248
STEEL PLATE FOR BOILERS 67-01 M17-58250
A NEW LARGE IMPACT TORSION TESTING MACHINE 67-01 M17-58389
STEPPING UP THE FIGHT AGAINST FRACTURE AND FATIGUE 67-01 M17-58485
INFLUENCE OF HEATING RATE DURING TEMPERING OF QUENCHED STEEL AND INFLUENCE OF END-OF-QUENCH TEMPERATURE 67-02 M14-59418
PRECIPITATION HARDENING IN NI-BASE HIGH-TEMPERATURE ALLOYS 67-02 M14-61898
STUDIES ON EMBRITTLEMENT OF STEELS BY MEANS OF HARDNESS MEASUREMENTS 67-02 M17-58936
THE OBSERVATION OF THE BRITTLE-DUCTILE TRANSITION IN STEEL AT STRESS WAVE ATTENUATION 67-02 M17-59712
PHYSICAL REASONS FOR THE DIFFERENT GROUPING OF STEELS ACCORDING TO THEIR TRANSITION TEMPERATURE UNDER DIFFERENT TEST CONDITIONS 67-02 M17-59713
TRANSITION BEHAVIOR AND ESTIMATION OF FRACTURE TOUGHNESS IN THE CHARPY IMPACT TEXT 67-02 M17-59754
ANISOTROPY OF THE DUCTILE-BRITTLE TRANSITION BEHAVIOR OF BERYLLIUM SHEETS 67-02 M17-60152
THE INITIATION OF BRITTLE FRACTURE IN NOTCHED TENSION SPECIMENS 67-02 M17-60908
BASIC PRINCIPLES OF STEEL HEAT TREATMENT. PT. 6. CARBON STRUCTURAL STEELS 67-03 M07-65180
REPORTS ON BRITTLE FRACTURES 67-03 M11-65448
THE TOUGHNESS OF BERYLLIUM 67-03 M17-65275
THE DUCTILE-BRITTLE TRANSITION AT VARIOUS NOTCH SHARPNESSES 67-03 M17-65324
EFFECT OF THE CONDITIONS OF MELTING AND ANNEALING ON THE TRANSITION OF METALLIC COMPOUNDS FROM BRITTLE STATE INTO DUCTILE 67-03 M17-65789
FINAL REPORT ON STRESS RELIEVING OF CARBON STEEL AND CHROME-MOLYBDENUM WELDS 67-04 M10-67469
FIRM SEEKS GREATER KNOWLEDGE OF CARBIDES 67-04 M14-66337
THE EFFECT OF FATIGUE ON THE DUCTILE-BRITTLE TRANSITION TEMPERATURE OF TWO MILD STEELS 67-04 M17-66172
INFLUENCE OF IMPURITIES AND ALLOYING ADDITIONS ON BRITTLE FRACTURE OF HIGH PURITY IRON 67-04 M17-66363
BRITTLE FRACTURE IN ALPHA-TITANIUM 67-04 M17-66938
IMPROVING THE COLD SHORTNESS OF STEEL CASTINGS 67-04 M17-67509
A MATHEMATICAL EXPRESSION OF THE RELATION OF IMPACT STRENGTH OF LOW-CARBON STEELS TO TESTING TEMPERATURE AND CARBON CONTENT 67-04 M17-67616
EFFECT OF TEMPERING ON THE VARIATION OF INTERNAL FRICTION AND COLD BRITTLENESS OF CARBON STEEL SUBJECTED TO CYCLIC LOAD 67-04 M17-67832
EFFECT OF DEGREE OF DEOXIDATION AND THICKNESS OF ROLLED PRODUCT ON THE MECHANICAL PROPERTIES OF LOW-CARBON STEEL AND BRITTLE FRACTURE IN ELEMENTS OF METAL STRUCTURES 67-05 M17-68555
THE FRACTURING PROCESS IN METALS. PT. 1 67-05 M17-68717
DETERMINING THE COLD-SHORTNESS THRESHOLD OF STEEL BY A MICROFRACTOGRAPHIC METHOD 67-05 M17-68742
ON THE BRITTLENESS OF METALLIC COMPOUNDS 67-05 M17-68970
THE STRENGTH AND COLD RESISTANCE OF AMG5V ALLOY AND ITS WELDED JOINTS AT LOW TEMPERATURES 67-05 M17-69041
STUDY OF THE MECHANICAL PROPERTIES OF SILICON-CONTAINING FERRITE. THE INFLUENCE OF CARBON 67-05 M17-69112
PRECIPITATION OF CRN IN LOW-ALLOY MEDIUM-TENSILE STRENGTH STEEL 67-06 M14-70813
EXPERIMENTS ON A STRUCTURAL STEEL USING THE S. O. O. NOTCH TOUGHNESS TEST 67-06 M17-69901
THE TEMPER BRITTLENESS OF SILICON IRON 67-06 M17-70217
ON THE INTERPRETATION OF FRACTURE SURFACE OBSERVATIONS 67-06 M17-70444
THE EFFECT OF TRIAXIAL STRESS SYSTEMS ON BRITTLE FRACTURE AND ON THE BRITTLE-DUCTILE TRANSITION 67-06 M17-70631
A DECADE OF IMPROVEMENTS IN GENERATOR ROTOR FORGINGS 67-06 M17-70725
35KHGF AND 30KH3MF STEELS AS SUBSTITUTES FOR CHROMIUM-NICKEL STEELS 67-06 M17-71121
CHROMIUM AND CHROMIUM ALLOYS 67-06 M17-71405
BRITTLE FRACTURE BEHAVIOR OF QUENCHED AND TEMPERED STRUCTURAL STEELS 67-06 M17-71510
THE BEHAVIOR OF 9 PER CENT NICKEL STEEL IN A REACTOR ENVIRONMENT 67-06 M17-71682
STUDY OF THE EFFECT OF GRAIN SIZE OF STEEL ON THE TRANSITION TEMPERATURE OF THE NOTCH TOUGHNESS 67-06 M17-71750
INFLUENCE OF THE WORK IN FATIGUE CONDITIONS ON COLD SHORTNESS OF STEEL 67-06 M17-72309
SLIP IN BERYLLIUM SINGLE CRYSTALS COMPRESSED ALONG THE C-AXIS NEAR 200 C 67-07 M14-73744

DUCTILE BRITTLE TRANSITION

COMPARISON OF DIFFERENT NOTCH IMPACT TEST SPECIMENS 67-07 M17-72418
EFFECT OF DEGREE OF DEOXIDATION AND THICKNESS OF ROLLED PRODUCT ON MECHANICAL PROPERTIES OF LOW CARBON STEEL AND THE OCCURRENCE OF BRITTLE FRACTURE IN METALLIC STRUCTURES 67-07 M17-72466
INVESTIGATION OF THE STRUCTURE OF THE FRACTURE AND THE TEMPERATURE THRESHOLD OF COLD BRITTLENESS IN FERRITE-PEARLITE CLASS STEELS BY THE FRACTOGRAPHY METHOD 67-07 M17-72868
INFLUENCE OF ALUMINUM ON COLD BRITTLENESS OF CAST MEDIUM CARBON STEEL 67-07 M17-73175
FACTORS AFFECTING THE DUCTILE-BRITTLE TRANSITION IN BERYLLIUM 67-07 M17-73746
INFLUENCE OF PLASTIC DEFORMATION IN HEAT AFFECTED ZONE ON COLD SHORTNESS OF WELDED JOINTS 67-08 M17-74368
THE TENSILE PROPERTIES AND FRACTURE OF URANIUM BETWEEN MINUS 200 C. AND PLUS 900 C 67-08 M17-74514
EXPERIENCE WITH HIGH-STRENGTH WELDABLE STEELS IN PRESSURE LINE CONSTRUCTION 67-08 M17-74939
FRACTURE CHARACTERISTICS IN QUENCHED STEEL 67-08 M17-75269
SOME MECHANISMS OF BRITTLE FRACTURE 67-08 M17-75402
THE EFFECT OF INCLUSIONS ON THE BRITTLE FRACTURE OF HOT ROLLED STEEL 67-08 M17-76148
DUCTILE YIELDING AND BRITTLE FRACTURE AT THE ENDS OF PARALLEL CRACKS IN A STRETCHED ORTHOTROPIC SHEET 67-08 M17-76157
INVESTIGATION OF THE INFLUENCE OF PRECIPITATES AND INCLUSIONS ON THE INITIATION AND PROPAGATION OF CLEAVAGE 67-08 M17-76223
CONTRIBUTION TO THE INVESTIGATION OF A CORRELATION BETWEEN NOTCH SENSITIVITY AND SENSITIVITY TO STRESS CORROSION IN THE PRESENCE OF HYDROGEN IN THE CASE OF CERTAIN STEELS 67-08 M18-76221
DEFORMATION OF POLYCRYSTALLINE TRANSITION METAL CARBIDES 67-09 M17-76399
DETERMINATION OF THE CRITICAL COLD SHORTNESS TEMPERATURE OF CAST STEEL 67-09 M17-76443
INFLUENCE OF THE STRUCTURE ON SUSCEPTIBILITY TO BRITTLE FRACTURE OF 40KHNMA STEEL 67-09 M17-77407
MECHANICAL PROPERTIES OF LOW-CARBON NICKEL STEELS AT MINUS 253 C 67-09 M17-77416
DUCTILE BRITTLE TRANSITION OF TUNGSTEN-MOLYBDENUM ALLOYS 67-09 M17-77784
QUANTITATIVE EFFECT OF SECTION SIZE ON TRANSITION TEMPERATURE 67-09 M17-77951
THE EFFECT OF HYDROGEN AND STRAIN RATE ON THE DUCTILE-BRITTLE BEHAVIOUR OF ZIRCALOY 67-09 M17-78258
DEVELOPMENT OF HIGH-STRENGTH STRUCTURAL STEEL HAVING GOOD TOUGHNESS PROPERTIES 67-09 M17-78288
PROBLEMS IN WELDING DUCTILE CAST IRON 67-10 M11-78712
TEMPER BRITTLENESS 67-10 M17-78608
EFFECT OF THE CARBON CONTENT OF STRUCTURAL STEEL ON ITS TRANSITION TEMPERATURE 67-10 M17-78931
THE EFFECTS OF TIN ON THE TRANSITION TEMPERATURE OF 30KHGSA STRUCTURAL STEEL 67-10 M17-78935
THE CLASSIFICATION OF STEELS ACCORDING TO TRANSITION TEMPERATURES AS DETERMINED BY NOTCHED BAR IMPACT TESTS 67-10 M17-79064
EFFECT OF PLASTIC STRAINING ON THE BRITTLENESS THRESHOLD OF METALLIC COMPOUNDS 67-10 M17-79226
FRACTURE OF NODULAR CAST IRON 67-10 M17-79766
A STATISTICAL THEORY OF BRITTLE FRACTURE 67-10 M17-80029
FRACTURE OF POLYCRYSTALS 67-11 M17-80141
THE EFFECTS OF SOLUTES ON THE FRACTURE BEHAVIOR OF METALS 67-11 M17-80143
THE MICROSTRUCTURAL ASPECTS OF TENSILE FRACTURE 67-11 M17-80144
METALLURGICAL ASPECTS OF FERRITIC BOLT STEELS 67-11 M17-80280
CLEAVAGE PHENOMENA AND TOPOGRAPHIC FEATURES 67-11 M17-80694
EFFECT OF IMPURITIES AND ALLOYING ELEMENTS ON THE SUSCEPTIBILITY OF HIGH-PURITY IRON TO BRITTLE FRACTURE 67-11 M17-80965
BRITTLENESS OF THE CAST FE-25CR-5AL ALLOY 67-11 M17-80982
RELATION BETWEEN COLD BRITTLENESS AND THE BEHAVIOR OF CARBON IN IRON IN THE PRESENCE OF MANGANESE 67-11 M17-81417
EFFECTS ON THE COLD-BRITTLENESS OF STEEL OF WORKING UNDER CONDITIONS OF FATIGUE 67-11 M17-81581
THE DEVELOPMENT OF CHROMIUM-BASE ALLOYS FOR USE AT HIGH TEMPERATURES 67-12 M01-82079
EFFECTS OF CONSTITUTIONAL LIQUATION IN 18-NI MARAGING STEEL WELDMENTS 67-12 M11-82822
MECHANICAL PHENOMENA OF BRITTLE FRACTURE 67-12 M17-81914
EXAMINATION OF BRITTLE FRACTURE BEHAVIOR BY THE DROP-WEIGHT TEST 67-12 M17-81936
SOME LAWS FOR BRITTLE FRACTURE 67-12 M17-82023
FRACTOGRAPHIC INVESTIGATION OF THE STRUCTURE AND TEMPERATURE THRESHOLD OF COLD BRITTLENESS IN FERRITE-PEARLITE STEELS 67-12 M17-82176
INFLUENCE OF PLASTIC STRAIN IN THE HEAT-AFFECTED ZONE ON THE LOW-TEMPERATURE EMBRITTLEMENT OF WELDED JOINTS 67-12 M17-82241
PLASTIC DEFORMATION OF LOW-CARBON STEEL AT BRITTLE FRACTURE 67-12 M17-82631
THE FRACTURE BEHAVIOR OF CASE-HARDENED PARTS 67-12 M17-82838
RESULTS OF BURST TESTS ON NIOBIUM-TREATED HIGH TENSILE STEEL PIPES AT LOW TEMPERATURES 67-12 M17-83507
INFLUENCE OF REFINING OF AUSTENITIC GRAINS ON THE PROPERTIES OF LOW CARBON STEELS AFTER LOW-TEMPERATURE TEMPER 67-12 M17-83537

DUCTILE BRITTLE TRANSITION
ANALYSIS OF FRACTURE ENERGY IN THE IMPACT TEST
ANALYSIS OF FRACTURE ENERGY IN THE IMPACT TEST 67-12 M17-83579

DUCTILE BRITTLE TRANSITION, ALLOYING EFFECTS
INFLUENCE OF CERTAIN ALLOYING ELEMENTS ON THE KINETICS OF FORMATION OF PEARLITE 67-02 M14-62064
HIGH-STRENGTH PRECIPITATION-HARDENED CONSTRUCTIONAL STEELS 67-02 M17-60692
EFFECT OF COBALT ON BRITTLE FRACTURE SUSCEPTIBILITY OF IRON 67-04 M17-66489
THE EFFECTS OF MANGANESE AND ZIRCONIUM ON THE HOT SHORTNESS OF AL-MG-ZN SYSTEM ALLOYS 67-06 M17-70382
DUCTILITY AND STRENGTH OF IRON CONTAINING 3.1 TO 5.1 PER CENT SI 67-06 M17-70806
GRAIN SIZE AND THE TRANSITION TEMPERATURE OF STRUCTURAL STEELS 67-08 M17-74940
FRACTURES IN MOLYBDENUM ALLOYS EXAMINED UNDER THE ELECTRON MICROSCOPE 67-08 M17-75459
DUCTILE-BRITTLE TRANSITION IN IRON FREE FROM INTERSTITIALS 67-09 M17-78292
THE EFFECT OF NOBLE METAL ADDITIONS ON THE TOUGHNESS OF IRON-CARBON ALLOYS 67-12 M17-82760

DUCTILE BRITTLE TRANSITION, HEATING EFFECTS
MECHANICAL PROPERTIES OF FE-CR ALLOYS EMBRITTLED AT 475 C 67-08 M17-74438
EFFECT OF THE DEGREE OF STRUCTURAL DISPERSION ON THE PROPERTIES OF CAST MEDIUM-CARBON STEEL 67-12 M10-82192
RECRYSTALLIZATION, GRAIN GROWTH AND THE DUCTILE-BRITTLE TRANSITION IN TUNGSTEN SHEET 67-12 M17-81822
THE TOUGHNESS OF FERRITIC STEEL STRENGTHENED BY PRECIPITATION OF CBC 67-12 M17-82566

DUCTILE BRITTLE TRANSITION, IMPURITY EFFECTS
THE EFFECT OF INTERSTITIAL IMPURITIES ON RADIATION HARDENING AND EMBRITTLEMENT IN IRON 67-02 M17-58950

DUCTILE BRITTLE TRANSITION, PRESSURE EFFECTS
ON THE BRITTLE-DUCTILE TRANSITION PRESSURE 67-06 M17-71961

DUCTILE BRITTLE TRANSITION, RADIATION EFFECTS
EFFECT OF IRRADIATION ON THE IMPACT PROPERTIES OF HYDRIDED ZIRCALOY-2 AND ZIRCONIUM-NIOBIUM ALLOY 67-02 M17-59027
RADIATION DAMAGE EXPOSURE AND EMBRITTLEMENT OF REACTOR PRESSURE VESSELS 67-05 M16-68346
LOW-TEMPERATURE EMBRITTLEMENT OF IRON, IRON ALLOYS, AND STEELS BY NEUTRON IRRADIATIONS 67-07 M17-73379
EFFECT OF IRRADIATION ON BEND TRANSITION TEMPERATURES OF MOLYBDENUM- AND COLUMBIUM-BASE ALLOYS 67-07 M17-73380
NEW INFORMATION ON NEUTRON EMBRITTLEMENT AND EMBRITTLEMENT RELIEF OR REACTOR PRESSURE VESSEL STEELS 67-07 M17-73389
IN-DEPTH EMBRITTLEMENT OF A SIMULATED PRESSURE

67-07 M17-73390
EFFECT OF CHEMICAL COMPOSITION AND NEUTRON IRRADIATION ON BRITTLE FRACTURE OF IRON AND STEEL
67-12 M16-82815
DUCTILE BRITTLE TRANSITION, STRESS EFFECTS
EFFECT OF THE DEFORMATION SPEED ON THE DUCTILE-TO-BRITTLE TRANSITION BEHAVIORS OF A MILD STEEL. STUDY ON THE DEPENDENCE OF MECHANICAL PROPERTIES OF METALS UPON THE STRAIN RATE. PT. 2
67-02 M17-59992
HOW LOW CYCLE FATIGUE EMBRITTLES PRESSURE VESSEL STEELS
67-02 M17-60694
DUCTILE BRITTLE TRANSITION, TEMPERATURE EFFECTS
TEMPERATURE DEPENDENT SHEAR RUPTURE IN LOW CHROMIUM AND MOLYBDENUM STEELS
67-09 M17-78231
DUCTILE BRITTLE TRANSITION, WELDING EFFECTS
FINDING A RECOVERY COMPROMISE FOR TENSOTHERMALLY EMBRITTLED WELDMENTS
67-02 M10-60870
STUDY OF NOTCH-ROOT EMBRITTLEMENT IN WELDMENTS
67-02 M17-60869
DUCTILE IRON
SEE NODULAR IRON
DUCTILITY
SEE ALSO BEND DUCTILITY
CRYOGENIC TENSILE PROPERTIES OF SELECTED AEROSPACE MATERIALS
67-01 M17-57621
NATURE OF PLASTICITY OF MO-RE ALLOYS
67-01 M17-57674
EFFECT OF ALLOYING ON THE ELASTIC MODULUS, STRENGTH AND PLASTICITY OF TITANIUM AT MINUS 196 TO 800 C
67-01 M17-58129
MECHANICAL PROPERTIES OF COMMERCIAL PURE TITANIUM AT HIGH TEMPERATURE
67-01 M17-58738
INVESTIGATION OF THE STRENGTH AND DUCTILITY OF POWDER METALLURGY PARTS AT LOW TEMPERATURES
67-02 M09-61711
DUCTILITY OF SAP --SINTERED ALUMINUM POWDER-- AND DURALUMINUM
67-02 M09-61731
THE DEFORMATION PROPERTIES AND ELECTRON MICROSCOPY STUDIES OF THE INTERMETALLIC COMPOUND NIAL
67-02 M17-58963
EFFECT OF HEAT TREATMENT ON DUCTILITY OF FERRITIC-PEARLITIC, STEELS
67-02 M17-58987
MEASURING THE LOSS IN DUCTILITY CAUSED BY TENSOTHERMAL EMBRITTLEMENT
67-02 M17-59171
INVESTIGATION OF THE DUCTILITY OF SOME AUSTENITIC STEELS AT HIGH LOAD RATES
67-02 M17-59943
ANISOTROPY OF THE DUCTILE-BRITTLE TRANSITION BEHAVIOR OF BERYLLIUM SHEETS
67-02 M17-60152
STRENGTH AND DUCTILITY OF CAST STEEL
67-02 M17-61804
PROPERTIES OF 2KH13L STEEL IN MARTENSITIC STATE
67-02 M17-61991
FORMABILITY OF DI-1 HEAT-RESISTANT STAINLESS STEEL
67-02 M17-62154
THE EFFECT OF HYDROGEN CHARGING ON THE PETCH RELATIONSHIP FOR ZONE-REFINED IRON
67-03 M17-65093
SUPERPLASTICITY AND LOW-TEMPERATURE DUCTILITY IN A CR-30 AT. PER CENT CO ALLOY
67-03 M17-65099
THE PLASTIC BEHAVIOR OF BERYLLIUM AND SOME OTHER METALS
67-03 M17-65236
EFFECT OF HYDROGEN ON THE DUCTILITY OF BERYLLIUM PURIFIED BY ZONE MELTING
67-03 M17-65244
THE ULTRA-COLD WORKED DUCTILE STATE OF 70/30 BRASS. COMPARISON WITH MAGNESIUM
67-03 M17-65550
ON THE DUCTILE BEHAVIOR OF NOMINALLY BRITTLE MATERIALS DURING EROSIVE CUTTING
67-03 M17-65936
CONTROL OF LUDERS MARKINGS ON MILD STEEL STRIP BY ROLLER-FLEXING UNDER TENSION
67-04 M07-67419
MICROSTRUCTURAL STUDIES OF RENE 41 SIMULATED WELD HEAT-AFFECTED ZONES
67-04 M11-67630
THE EFFECT OF TWO-PHASE STRUCTURE ON THE SUSCEPTIBILITY TO DEFORMATION OF HIGH-ALLOY CHROMIUM AND CHROMIUM-NICKEL STEELS
67-04 M17-66019
THE EFFECT OF PRE-STRAIN AND STRAIN-AGEING ON THE CLEAVAGE FRACTURE OF A HIGH-MANGANESE STEEL
67-04 M17-66068
THE MECHANICAL BEHAVIOR OF REFRACTORY-METAL ALLOYS
67-04 M17-66196
RESISTANCE TO HOT CRACKING OF STEEL REFINED BY MEANS OF SYNTHETIC SLAGS
67-04 M17-66215
EFFECT OF RARE-EARTH METALS ON PROPERTIES OF 12KH1MF STEEL
67-04 M17-66217
MICROSTRUCTURE AND MECHANICAL PROPERTIES OF PRESSED TSM2A MOLYBDENUM ALLOY
67-04 M17-66451
INFLUENCE OF ANNEALING TEMPERATURE ON STRUCTURE AND PROPERTIES OF CAST MOLYBDENUM
67-04 M17-66456
STRENGTH OF WELDED JOINTS IN STRUCTURES MADE OF HIGH-STRENGTH STEEL
67-04 M17-66567
EFFECT OF COPPER ON THE MECHANICAL PROPERTIES OF A HEAT-TREATED 0.3 PER CENT C STEEL
67-04 M17-66987
RHEOTROPIC RECOVERY IN BETA BRASS
67-04 M17-67051
INFLUENCE OF FATIGUE ON BRITTLE FRACTURE IN MILD STEEL
67-04 M17-67415
CERTAIN CONSIDERATIONS REGARDING THE DUCTILITY PROPERTIES OF STAINLESS STEELS WHEN HOT
67-04 M17-67874
STRENGTH AND DUCTILITY OF ALLOYED STEELS AFTER LOW TEMPERATURE THERMOMECHANICAL TREATMENT
67-04 M17-67963
INFLUENCE OF PHASE TRANSFORMATIONS ON THE DUCTILITY OF AUSTENITIC-FERRITIC STEELS
67-04 M17-67980
TEMPERING OF QUENCHED FERRITIC-AUSTENITIC CR-NI STEEL
67-04 M17-67985
DEFORMABILITY OF DI-1 HEAT-RESISTING STAINLESS STEEL
67-04 M17-68196
METALLOGRAPHY OF DEFORMATION AND FAILURE IN CROSS-ROLLING
67-05 M07-68402
PLASTICITY OF DEFORMED MAGNESIUM
67-05 M17-69268
EFFECT OF THE NUMBER OF ROLLING PASSES ON THE STRENGTH, DUCTILITY, MICROSTRUCTURE AND FINE CRYSTALLINE STRUCTURE OF SILICON STEELS AS A RESULT OF HIGH-TEMPERATURE AUSROLLING
67-05 M17-69270
ON THE CRITERIA OF METAL DUCTILITY
67-05 M17-69899
THE ROLLING OF WATER-PULVERIZED KANTHAL FE ALLOY POWDER
67-06 M09-71740
SOME OBSERVATIONS ON THE MARSTRAINING OF A 12 PER CENT CHROMIUM STEEL
67-06 M10-70879
ANOMALOUS TRANSMISSION IN STRAINED DUCTILE AND BRITTLE CRYSTALS BY THE DIVERGENT X-RAY BEAM METHOD
67-06 M14-71283
LOWER-COST TUNGSTEN-RHENIUM ALLOYS
67-06 M17-70013
INFLUENCE OF AUSROLLING BY TWISTING ON BRITTLE FAILURE OF HIGH-CARBON STEELS
67-06 M17-70066
DUCTILITY CRITERION FOR NICKEL AND CHROMIUM STEELS AND ALLOYS
67-06 M17-70102
CHANGE IN THE MECHANICAL PROPERTIES OF GAMMA BRASS AT HIGH TEMPERATURES
67-06 M17-70174
DETERMINING THE DUCTILITY OF METALS FROM THE RESULTS OF DYNAMIC BEND TESTS
67-06 M17-70913
EFFECTS OF HYDROGEN ON THE STRUCTURE AND PROPERTIES OF ZINC ALLOYS
67-06 M17-71111
DUCTILE AND BRITTLE CRYSTALS
67-06 M17-71285
THE EFFECT OF ORIENTATION AND IMPURITIES ON THE MECHANICAL PROPERTIES OF MOLYBDENUM SINGLE CRYSTALS
67-06 M17-71529
THE DETERMINATION OF THE DUCTILITY OF HARD TOOL STEELS WITH PARTICULAR EMPHASIS ON TORSION IMPACT TESTING
67-06 M17-72161
METALLURGICAL PROBLEMS IN STEAM REFORMING PLANT
67-07 M01-74266
INFLUENCE OF DEOXIDATION PRACTICE IN BASIC ELECTRIC ARC STEELMAKING ON THE CLEANNESS AND MECHANICAL PROPERTIES OF 0.20-0.25 PER CENT CARBON CAST STEELS
67-07 M04-72754
THE PRODUCTION AND PROPERTIES OF DUCTILE COBALT STRIP
67-07 M09-73826
EFFECT OF TYPE OF DEFORMATION ON THE MECHANICAL PROPERTIES OF HAMMER FORGINGS
67-07 M17-72491
DUCTILITY OF CERTAIN AUSTENITIC STEELS UNDER HIGH-VELOCITY LOADING
67-07 M17-72598
THE MECHANICAL PROPERTIES OF CARBONITRIDED STEELS. PT. 1. BENDING STRENGTH AND TOUGHNESS OF CARBONITRIDED STEELS WITH HIGH CORE STRENGTHS
67-07 M17-73186
THE EFFECTIVENESS OF WELDED JOINTS IN METAL STRUCTURES MADE OF HIGH TENSILE STEEL
67-07 M17-73424
THE INITIATION OF DUCTILE FAILURE BY FRACTURED CARBIDES IN AN AUSTENITIC STAINLESS STEEL
67-07 M17-73925
INFLUENCE OF PHOSPHORUS ON PROPERTIES OF 45KH10G14YU2 STEEL
67-07 M17-74192

DUCTILITY

METHODS FOR IMPROVING THE DUCTILITY OF MOLYBDENUM
67-08 M09-75300
INFLUENCE OF THE CARBIDE PHASE ON THE PROPERTIES OF TRANSFORMER STEEL 67-08 M15-74988
INFLUENCE OF THE MICROSTRUCTURE ON THE DUCTILITY OF STEEL WITH 3 PER CENT SI 67-08 M17-74987
THE STRENGTH AND DUCTILITY OF CERTAIN NIOBIUM-BASE SINGLE-AND TWO-PHASE ALLOYS PRODUCED BY ELECTRON-BEAM MELTING 67-08 M17-75027
THE ENHANCEMENT OF DUCTILITY IN HIGH-STRENGTH STEELS 67-08 M17-75980
TORSION TESTING AS A MEANS OF ASSESSING DUCTILITY AT HIGH TEMPERATURES 67-08 M17-76142
CONTRIBUTION TO THE INVESTIGATION OF THE PROBLEM OF THE RUPTURE OF EXTRA-MILD STEEL IN THE PRESENCE OF H2 67-08 M17-76220
INVESTIGATION OF DUCTILE FRACTURE BY MEANS OF AN IRON-ALUMINA COMPOSITE PRODUCED BY SINTERING
67-08 M17-76222
CORROSION RESISTANT STEELS, ESPECIALLY FOR COLD ROLLED SHEET AND STRIP APPLICATIONS
67-08 M17-76290
HIGH-STRENGTH STEEL PLATE APPLIED TO VEHICULAR STRUCTURES --HIGHER STRENGTH STEEL PLATE WITH EXCELLENT FORMABILITY-- 67-08 M20-75809
RESEARCH INTO THE EFFECT OF ELECTROMAGNETIC MIXING ON THE SOLIDIFICATION OF DUCTILE MAGNESIUM ALLOYS
67-09 M14-76958
STABILITY OF PLASTIC AND FATIGUE PROPERTIES OF 1KH18N9T STAINLESS STEEL UNDER STATIC LOAD IN VACUUM AND IN LIQUID LITHIUM 67-09 M17-76426
COMPARATIVE DUCTILITY OF BRITTLE METALS BY A PRECISION ELONGATION TECHNIQUE
67-09 M17-76531
STRENGTH AND TOUGHNESS OF CAST STEEL
67-09 M17-78076
EFFECT OF HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT ON THE RESISTANCE TO RUPTURE OF HIGH-CARBON STEELS STRAINED BY TORSION
67-10 M17-78812
PROPERTIES OF 2KH13L STEEL WITH A MARTENSITE STRUCTURE 67-10 M17-78848
THE DUCTILITY OF NICKEL-CHROMIUM ALLOYS DURING PROLONGED USE 67-10 M17-79660
PROPERTIES OF NICKEL-MOLYBDENUM-ALUMINUM AGE HARDENING STEELS 67-10 M17-79735
PLASTICITY OF CARBON STEELS IN THE HOT STATE
67-10 M17-79853
HIGH-TEMPERATURE PROPERTIES OF 9 PER CENT CR-1 PER CENT MO STEEL 67-11 M17-80263
12 PER CENT CR STEELS--CREEP-RESISTING AND HIGH-STRENGTH VARIANTS 67-11 M17-80273
MICROSTRUCTURE AND MECHANICAL PROPERTIES OF PRESSED TSM2A ALLOY 67-11 M17-80992
FACTORS AFFECTING THE SERVICE LIFE OF CAST TOOLING
67-11 M17-81126
THE EFFECT OF UNIDIRECTIONAL SOLIDIFICATION ON THE PROPERTIES OF CAST NICKEL-BASE SUPERALLOYS
67-11 M17-81335
THE RUPTURE BEHAVIOUR OF METALS AT HIGH STRAIN RATES 67-11 M17-81527
STUDY OF THE DUCTILITY OF TUNGSTEN IN VACUUM ROLLING 67-12 M07-83331
INFLUENCE OF LONG-TIME THERMAL TREATMENTS ON THE PROPERTIES OF AL-AL2O3 COMPOSITES
67-12 M09-83502
INVESTIGATION OF SINTERING AND PROPERTIES OF CHROMIUM-BASE COMPACTS 67-12 M09-83554
THE IMPORTANCE OF TWINNING FOR THE DUCTILITY OF CPH POLYCRYSTALS 67-12 M13-82739
METALLURGICAL PRINCIPLES OF HOT WORKING
67-12 M17-82043
MARAGING STEEL WITH 18 PER CENT NICKEL
67-12 M17-82466
THE STATIC STRENGTH OF ALUMINIUM ALLOY SHEET SPECIMENS CONTAINING BLUNT NOTCHES
67-12 M17-82474
THE INFLUENCE OF SMALL COLD DEFORMATION PRECEDING AGING IN 15 AND 18 PER CENT NICKEL MARAGING STEEL
67-12 M17-82578
THE INFLUENCE OF DEFORMATION VELOCITY ON THE TENSILE RUPTURE DUCTILITY OF STRAIN-AGED STEEL
67-12 M17-82587
TEMPERATURE AND ORIENTATION DEPENDENCE OF THE FLOW STRESS IN OFF-STOICHIOMETRIC NI3AL --GAMMA PHASE-- 67-12 M17-82719
FRACTURE CONSIDERATIONS IN DEFORMATION PROCESSING
67-12 M17-82771
SHORT-TIME TENSILE AND LONG-TIME CREEP-RUPTURE PROPERTIES OF THE HK-40 ALLOY AND TYPE 310 STAINLESS STEEL AT TEMPERATURES TO 2000 F
67-12 M17-83240
THE INFLUENCE OF STRESS-STATE AND INCLUSION CONTENT ON DUCTILE FRACTURE WITH ROTATION
67-12 M17-83249
STUDY OF THE MECHANICAL AND THERMAL PROPERTIES OF URANIUM ALLOYS WITH SMALL ADDITIONS
67-12 M17-83503

DUCTILITY, ALLOYING EFFECTS
INVESTIGATION OF THE EFFECT OF COMPLEX ALLOYING ON THE PHYSICAL AND MECHANICAL PROPERTIES OF NIOBIUM
67-02 M17-59873
EFFECT OF URANIUM ON THE TRANSVERSE DUCTILITY OF RESULPHURIZED CHROMIUM STAINLESS STEEL ROLLED PLATE 67-05 M17-68345
INFLUENCE OF ALLOYED ELEMENTS ON THE MECHANICAL PROPERTIES OF QUENCHED STEEL SUBJECTED TO COLD DEFORMATION
67-05 M17-68377
EFFECT OF ALLOYING ELEMENTS ON THE FORMABILITY OF CAST RE 67-05 M17-68978
BOOSTING LIGHT METAL PROPERTIES WITH BERYLLIUM
67-06 MC1-71010
EFFECTS OF SOME ADDITIONAL ELEMENTS ON THE DUCTILITY OF ELECTRON BEAM MELTED MOLYBDENUM INGOTS 67-06 M17-70787
DUCTILITY AND STRENGTH OF IRON CONTAINING 3.1 TO 5.1 PER CENT SI 67-06 M17-70806
DUCTILITY OF SINTERED UNWORKED MOLYBDENUM-CARBON ALLOYS 67-07 M17-73401
INFLUENCE OF ADDITIONS OF BERYLLIUM, THALLIUM, AND SILICON ON THE HEAT RESISTANCE AND ELECTRICAL AND MECHANICAL PROPERTIES OF SILVER
67-08 M15-74998
INFLUENCE OF RARE-EARTH METALS ON THE PROPERTIES OF LOW-ALLOY STEEL MELTED IN AN ACID ELECTRIC FURNACE 67-08 M17-74541
EFFECTS OF SOME ADDITIONAL ELEMENTS ON THE DUCTILITY OF ELECTRON BEAM MELTED MOLYBDENUM INGOTS 67-08 M17-75756
THE DELETERIOUS EFFECT OF SMALL QUANTITIES OF ALUMINUM ON THE STRESS-RUPTURE PROPERTIES OF A CR-MO-V STEEL 67-08 M17-75971
TORSIONAL DUCTILITY AND STRENGTH OF IRON-CARBON ALLOYS AT ELEVATED TEMPERATURE
67-08 M17-75975
STUDIES ON PROPERTIES OF SOME TERNARY COPPER ALLOYS OF THE CU-MN-ZN AND CU-MN-NI SYSTEM
67-10 M17-78607
INFLUENCE OF BORON, COPPER AND TIN ON THE HOT TORSIONAL DUCTILITY OF AN FE-NI ALLOY
67-12 M17-82283

DUCTILITY, COMPOSITION EFFECTS
HYDRIDE MORPHOLOGY IN STRESSED ZIRCONIUM AND THE INFLUENCE OF SPECIMEN SIZE ON DUCTILITY
67-02 M17-59021
THE DEFORMATION BEHAVIOR OF ZIRCALOY-2 CONTAINING DIRECTIONALLY ORIENTED ZIRCONIUM HYDRIDE PRECIPITATES 67-02 M17-59023
STRUCTURE AND MECHANICAL PROPERTIES OF CB-V-TI ALLOYS 67-04 M13-66447
STRUCTURE AND MECHANICAL PROPERTIES OF NB-V-TI ALLOYS 67-11 M13-80988

DUCTILITY, COOLING EFFECTS
A SPECIAL FEATURE OF METAL FLOW IN COOLING MEDIA CONSISTING OF LIQUIDS AND AIR
67-08 M17-75010
EFFECT OF QUENCH RATE ON MECHANICAL PROPERTIES OF SUPRACRITICALLY ANNEALED AND QUENCHED MILD STEEL STRIP 67-10 M10-79768

DUCTILITY, HEATING EFFECTS
NODULAR GRAPHITE STEEL. EFFECT OF HEAT TREATMENT ON MECHANICAL PROPERTIES 67-08 M17-74426
SOME EFFECTS OF HEAT TREATMENT AND WELDING ON THE RUPTURE PROPERTIES OF THREE AUSTENITIC STEELS
67-11 M17-80278
EFFECT OF THE ANNEALING TEMPERATURE ON THE STRUCTURE AND PROPERTIES OF CAST MOLYBDENUM
67-11 M17-80997
EFFECT OF GRAIN BOUNDARY DENUDATION OF GAMMA PRIME ON NOTCH-RUPTURE DUCTILITY OF INCONEL NICKEL-CHROMIUM ALLOYS X-750 AND 718
67-12 M17-82762

DUCTILITY, IMPURITY EFFECTS
NON-METALLIC INCLUSIONS IN CASTS OF 08KH2ON10G6 STEEL WITH DIFFERENT HOT WORKING PROPERTIES
67-07 M13-74146
THE EFFECTS OF PURIFICATION AND REALLOYING ON THE

MECHANICAL PROPERTIES OF ZONE-REFINED SINGLE CRYSTALS 67-07 M17-73739
HOT TORSIONAL RUPTURE OF AUSTENITIC AND FERRITIC ALLOYS 67-10 M17-78678
INFLUENCE OF SULFUR IMPURITY ON DUCTILITY OF NICKEL 67-12 M17-83025

DUCTILITY, PRESSURE EFFECTS
PLASTIC FLOW IN BERYLLIUM UNDER FLUID PRESSURE AT ROOM TEMPERATURE 67-03 M07-65279
ULTRAHIGH-VACUUM EFFECTS ON THE MECHANICAL BEHAVIOR OF MOLYBDENUM 67-06 M17-71605
HYDROSTATIC EXTRUSION OF METAL POWDERS 67-07 M09-73869

DUCTILITY, RADIATION EFFECTS
EFFECTS OF IRRADIATION AND ENVIRONMENT ON THE MECHANICAL PROPERTIES AND HYDROGEN PICKUP OF ZIRCALOY 67-02 M17-59026
RADIATION DAMAGE IN INCOLOY-800 67-03 M17-65018
EFFECTS OF IRRADIATION IN AUSTENITIC STEELS AND OTHER HIGH-TEMPERATURE ALLOYS 67-07 M17-73384
IN-REACTOR STRESS-RUPTURE PROPERTIES OF A 20CR-25NI, COLUMBIUM-STABILIZED STEEL 67-07 M17-73388
THE EFFECT OF IRRADIATION ON THE HIGH TEMPERATURE FRACTURE OF STAINLESS STEEL 67-09 M17-78265
THROUGH-THICKNESS NOTCH DUCTILITY AND TENSION PROPERTIES AS A FUNCTION OF NEUTRON EXPOSURE TO A SIMULATED PRESSURE VESSEL WALL OF A 320-B STEEL 67-12 M16-83253
SOME EFFECTS OF NEUTRON IRRADIATION ON MARAGING STEEL 67-12 M17-82768

DUCTILITY, STRESS EFFECTS
MECHANICAL PROPERTIES AT HIGH TEMPERATURE AND OPTICAL ELECTRON MICROSTRUCTURES OF ROLLED TITANIUM 67-02 M17-61029
CORRELATION BETWEEN LABORATORY TESTS AND ACTUAL PRACTICAL STAMPING RESULTS 67-05 M17-68928
TRIAXIAL TESTS OF METALLIC MATERIALS AT ELEVATED TEMPERATURES 67-07 M17-72979

DUCTILITY, TEMPERATURE EFFECTS
THE TENSILE PROPERTIES AT ROOM AND ELEVATED TEMPERATURES OF SOME CAST AUSTENITIC STEELS 67-06 M17-70530
PROBLEMS, PROPERTIES AND SELECTION OF STRUCTURAL METALS FOR USE IN CRYOGENIC ENVIRONMENT 67-06 M17-72092
TECHNOLOGICAL DUCTILITY OF STAINLESS AND HEAT-RESISTANT STEELS 67-07 M17-74081
INCREASE IN DUCTILITY AND PLASTICITY OF MARTENSITIC STAINLESS STEELS AT MINUS 196 C. AS THE RESULT OF THE REVERSE MARTENSITIC TRANSFORMATION 67-08 M17-74966
STRENGTH AND DUCTILITY CHARACTERISTICS OF SINTERED MATERIALS AT LOW TEMPERATURES 67-08 M17-75856
RESEARCH INTO THE DUCTILITY OF 1KH21N5T --E1811-- STEEL AT HIGH TEMPERATURES 67-09 M17-76974
THE DROP IN THE DUCTILITY OF TITANIUM AT HIGH TEMPERATURES 67-09 M17-77042

DUCTILITY, WELDING EFFECTS
CONSIDERATIONS ON THE EFFECT OF P AND N ON THE DUCTILITY OF ELECTROSLAG WELDS 67-05 M11-69331
DISCUSSION ON CORRELATION OF NI-CR-FE ALLOY WELD METAL FISSURING WITH HOT DUCTILITY BEHAVIOR 67-06 M17-70137
THE TENDENCY TO BRITTLE FRACTURE OF COLD-WORKED STEEL AGED BY THE HEAT FROM WELDING 67-09 M17-77816

DUCTILITY TESTS
SEE ALSO ERICHSEN TEST
SWIFT CUP FORMING TEST
THE TESTING OF IMPROVED NAILS 67-02 M17-60626
APPLICABILITY TO OTHER METALS OF DRAWABILITY TESTS WITH STEELS 67-04 M08-66398
SUITABILITY OF SHEETS FOR PRESSING 67-04 M17-66145
FUNDAMENTAL MATERIAL INVESTIGATIONS WITH RESPECT TO DEFORMATION AT INTERMEDIATE TEMPERATURES 67-04 M17-67409
INFLUENCE OF THE STRUCTURE ON THE DUCTILITY AND TYPE OF RUPTURE OF KHN70VMTYU AND EI826 ALLOYS 67-05 M17-68354
THE EFFECT OF STRAIN RATE ON THE STRESS-STRAIN RELATIONSHIP AND DUCTILITY 67-05 M17-69155
TWINNING DURING PLASTIC DEFORMATION OF TITANIUM 67-06 M17-69982
AN ESTIMATING METHOD OF THE DEEP DRAWABILITY OF ALUMINIUM SHEET 67-08 M17-75767
THE PLASTIC ANISOTROPY RATIO R AND THE WORK HARDENING EXPONENT N IN RELATION TO THE DRAWABILITY OF SHEET METAL 67-11 M17-80716
COMPARATIVE INVESTIGATION OF THE HOT WORKABILITY OF THE STEEL X 10NICRWTI 36.15 MELTED IN A BASIC ELECTRIC ARC FURNACE AND AFTER REMELTING IN A MULTIPLE-CHAMBER ELECTRON BEAM FURNACE 67-12 M04-82691
PLASTICITY OF FE-NI ALLOYS 67-12 M17-81714
DEFORMATION OF PASSIVE FILMS 67-12 M17-82454
ELEVATED-TEMPERATURE TENSILE DUCTILITY MINIMUM IN SILICIDE COATED CB-1W AND CB-10W-2.5ZR 67-12 M17-83047

DUOMELT PROCESS
SEE ELECTRIC ARC MELTING
VACUUM MELTING

DUPLEX CHROMIUM PLATING
SEE CHROMIUM PLATING
DUPLEX PLATING

DUPLEX CHROMIUM PLATINGS
SEE CHROMIUM
DUPLEX ELECTROPLATES

DUPLEX ELECTROPLATES
MICROCRACKED CHROMIUM PLATE IMPROVES CORROSION RESISTANCE 67-10 M18-78576

DUPLEX NICKEL PLATING
SEE DUPLEX PLATING
NICKEL PLATING

DUPLEX OPENHEARTH PROCESS
SINGULARITIES OF MELTING STEEL IN A DUPLEX FURNACE 67-04 M04-66612
LD-PROCESS AS APPLIED TO PRODUCTION OF STEEL CASTINGS 67-08 M04-76166

DUPLEX PLATING
NEW COATINGS FOR ZINC 67-06 M12-70727
SILVER-PLATED/NICKEL-PLATED COPPER WIRE SHOWS INCREASED CORROSION RESISTANCE 67-06 M18-72093
THE PROPERTIES OF SUPERCOATING 67-06 M18-72297
ELECTROLYTIC EXTRACTION OF CO-ZN ALLOYS FROM A PHOSPHATE BATH 67-10 M12-79396
DIFFERENTIAL NICKEL AND COPPER PLATING 67-12 M12-82607

DUPLICATING MILLING MACHINES
SEE PROFILE MILLING MACHINES

DUR NI PROCESS
SEE DUPLEX PLATING
NICKEL PLATING

DURABILITY
SOME PROPERTIES OF METAL MOLD COATING FOR CAST IRON 67-06 M06-70851

DURALCOTE PROCESS
SEE ANODIZING

DUST
SEE ALSO COAL DUST
FLUE DUST
ON THE AMOUNT AND COMPOSITION OF DUST WHEN PRODUCING STEEL IN BASIC ELECTRIC FURNACES 67-06 M04-70277

DUST, AGGLOMERATION
ON THE RICE GRAIN METHOD 67-05 M02-69360

DUST, BENEFICIATION
THE CHEMICAL EXPLOITATION OF FE CARRIERS 67-06 M02-70079

DUST, COATINGS
CORROSION PREVENTION BY ZINC-RICH PAINT SYSTEMS 67-04 M12-66659
CORROSION BEHAVIOR OF ZINC DUST-CONTAINING PAINTS AND OF HOT DIP GALVANIZED COATINGS IN INDUSTRIAL ATMOSPHERES 67-07 M18-73236

DUST, REDUCTION /CHEMICAL/
REDUCTION OF CONVERTER DUST PELLETS 67-04 M02-67554

DUST COLLECTION
SEE DUST CONTROL

DUST COLLECTORS
PROBLEMS OF DUST COLLECTION IN THE BASIC OXYGEN CONVERTER 67-06 M04-71948
OG GAS RECOVERY EQUIPMENT IMPROVES YIELD OF BOF PLANT 67-07 M20-72620

DUST COLLECTORS, DESIGN
ENGINEERING EXPERIENCE IN BASIC OXYGEN STEELWORKS 67-06 M04-71947
IMPROVED TECHNIQUES FOR PROCESSING STEEL PLANT FINES 67-08 M19-75318

DUST CONTROL
MODELING OF THE DUST FORMATION PROCESS IN

DUST CONTROL
STEELMAKING FUNACES 67-01 M04-58189
REDUCTION OF CONVERTER DUST PELLETS 67-04 M02-67554
PROBLEMS OF DUST COLLECTION IN THE BASIC OXYGEN CONVERTER 67-06 M04-71948
EMISSION SAMPLING FOR ELECTRIC FURNACE FUME CONTROL 67-06 M19-71391
DUST EXTRACTION FROM BASIC OXYGEN FURNACES WITH SUPPRESSED COMBUSTION 67-07 M04-72911
PLANNING AND CONSTRUCTION OF THE DUST EXTRACTION EQUIPMENT OF A BASIC OXYGEN STEEL PLANT AND INITIAL OPERATING EXPERIENCE 67-07 M04-72912
DUST EXTRACTION FROM CUPOLAS BY MEANS OF VENTURI TUBE SCRUBBERS 67-07 M04-73109
REMOVAL OF DUST FROM ELECTRIC FURNACE WASTE GASES. PT. 1. EXPERIENCE WITH WET DUST REMOVAL BY VENTURI SCRUBBERS. PT. 2. EXPERIENCE WITH A DRY ELECTROSTATIC FILTER ON A 100-M TON ELECTRIC ARC FURNACE. PT. 3. EXTRACTION OF DUST FROM ARC FURNACES BY MEANS OF ELECTROFILTERS. PT. 4. EXPERIENCE WITH DRAWING OFF THE WASTE GASES AND WITH ELECTRICAL DUST EXTRACTION ON ARC FURNACES 67-07 M04-73240
DESIGN OF A HOT BLAST CUPOLA PLANT WITH A WET ELECTROSTATIC PRECIPITATOR FOR CLEANING THE STACK GAS 67-07 M04-73242
OG GAS RECOVERY EQUIPMENT IMPROVES YIELD OF BOF PLANT 67-07 M20-72620
IMPROVED TECHNIQUES FOR PROCESSING STEEL PLANT FINES 67-08 M19-75318
DESIGN, OPERATION AND MAINTENANCE OF A 150-TON ELECTRIC FURNACE DUST COLLECTION SYSTEM 67-09 M04-76668
CHARACTERISTICS OF FINE PARTICLES OF BURDEN MATERIALS AND THE ESCAPE OF BLAST FURNACE DUST 67-09 M04-77357
VARIOUS APPROACHES TO AIR POLLUTION CONTROL FOR CUPOLA MELTING UNITS 67-09 M04-77393
THE AMOUNT AND COMPOSITION OF THE DUST PRODUCED WHILE MELTING STEEL IN THE BASIC ELECTRIC FURNACE 67-10 M04-79673

DUST FILTERS
TEST OF A FIBERGLASS BAG FILTER BY USING ROAST GAS OF MO CONCENTRATES IN A FURNACE WITH A FLUIDIZED BED 67-09 M02-76967

DYE PENETRANT TESTING
SEE FLUID PENETRANT TESTING

DYEING
ELECTROKINETIC BEHAVIOR OF ANODIC OXIDE COATING OF ALUMINUM. PT. 1. ZETA POTENTIAL AND DYEING AFFINITY OF ANODIC OXIDE COATING OF ALUMINUM 67-09 M12-76681

DYNAMIC MODULUS OF ELASTICITY
MICROSTRAIN BEHAVIOR OF BODY-CENTERED CUBIC METALS 67-06 M17-71533
DETERMINING THE DYNAMIC ELASTIC MODULUS AT ELEVATED TEMPERATURES BY USING RAPID HEATING TECHNIQUES 67-06 M17-71639

DYNAMIC TESTS
SEE ALSO DROP WEIGHT TESTS
EXPLOSIVE IMPACT TESTS
IMPACT TESTS
WEAR TESTS
DYNAMIC DEFORMATION OF METALS UNDER HIGH HYDROSTATIC PRESSURE 67-01 M17-57543
MECHANICAL BEHAVIOR OF ALUMINUM STRAINED WITH IMPACT LOADING 67-02 M17-59125
A DYNAMIC BIAXIAL TESTING MACHINE 67-03 M17-65661
ON THE DIRECT MEASUREMENT OF VERY LARGE STRAIN AT HIGH STRAIN RATES 67-03 M17-65662
ON THE FATIGUE OF TENSILE PRESTRAINED MILD STEEL UNDER REPEATED ALTERNATING COMBINED STRESSES 67-04 M17-66898
EVALUATION OF CORROSION RESISTANCE OF AUSTENITIC STAINLESS STEELS FOR WATER COOLED POWER REACTORS 67-04 M18-67592
METHODS OF DETERMINING THE MECHANICAL PROPERTIES OF SHEET BIMETALLIC JOINTS 67-05 M17-69048
TENDENCIES IN THE GENERAL DEVELOPMENT OF STATIC AND DYNAMIC TESTING MACHINES 67-05 M17-69197
INFLUENCE OF ULTRASONIC VIBRATIONS ON MICROSTRUCTURE OF ARMCO IRON 67-06 M13-70059
DYNAMIC EFFECT OF PLASTIC DEFORMATION IN COPPER AND ITS ALLOYS 67-06 M15-70300
THE TESTING OF METALLIC TUBES FOR PIPELINES CARRYING LIQUIDS UNDER PRESSURE AND METAL VESSELS UNDER INTERNAL HYDRAULIC PRESSURE DURING DYNAMIC HYDRAULIC FATIGUE CONDITIONS 67-10 M19-78646
METHODS FOR DETERMINING THE MECHANICAL PROPERTIES OF BIMETAL SHEET BOND 67-12 M17-81999

DYNAMICS
SEE AERODYNAMICS
FLUID DYNAMICS
GAS DYNAMICS
KINETICS

DYNAPAK EXTRUSION
SEE DYNAPAK PROCESS
METAL EXTRUSION

DYNAPAK FORGING
SEE DYNAPAK PROCESS
FORGING

DYNAPAK PROCESS
PRACTICAL USES OF HIGH-SPEED FORMING 67-02 M08-59142
ON THE HIGH ENERGY-RATE WORKING OF STEEL--THE IMPACT EXTRUSION OF STEEL BELOW 900 C 67-04 M07-67581
A SURVEY OF H. E. R. FORMING 67-05 M08-69736
HIGH-VELOCITY FORMING BY PNEUMATIC-MECHANICAL MEANS 67-06 M07-70448
VARIETY OF HERF METHODS USED FOR GD/FORT WORTHS F-111 67-08 M08-74732
HIGH VELOCITY METALWORKING 67-09 M08-77382
EXAMPLES OF HIGH ENERGY RATE FORGING ON A DYNAPAK MACHINE 67-09 M08-77693
EXPLOSIVE METALWORKING 67-11 M08-80481

DYSPROSIUM, BINARY SYSTEMS
CRYSTAL STRUCTURE OF THE HOAL3 AND DYAL3 COMPOUNDS 67-02 M13-59674
THE ALUMINIUM-RICH PARTS OF THE ALUMINIUM-SAMARIUM AND ALUMINIUM-DYSPROSIUM SYSTEMS 67-06 M13-71059
CONSTITUTION OF BINARY ALLOYS OF GADOLINIUM, DYSPROSIUM, HOLMIUM AND ERBIUM WITH MANGANESE 67-06 M14-71861

DYSPROSIUM, CHEMICAL ANALYSIS
DETERMINING THE DYSPROSIUM IN SPECIMENS OF YTTRIUM OXIDE AND FERRITE GARNET BY RADIOACTIVATION 67-06 M19-70321

DYSPROSIUM, CRYSTAL LATTICES
CRYSTAL STRUCTURE OF DYSPROSIUM AT 77 TO 300 K 67-11 M13-80787

DYSPROSIUM, INTERMETALLICS
MAGNETIC PROPERTIES OF DYAL2 AND NDAL2 67-02 M15-61837
MAGNETIC STRUCTURE OF DYAG 67-09 M15-76660

DYSPROSIUM, MAGNETIC PROPERTIES
MAGNETIC PROPERTIES OF SOME RARE-EARTH ALLOYS AT HIGH PRESSURES 67-05 M15-69521
THE EFFECT OF PRESSURE ON THE CURIE TEMPERATURE AND RESISTIVITY OF SOME RARE-EARTH METALS AND HEUSLER ALLOYS 67-06 M15-71282
MAGNETIC ANISOTROPY OF TERBIUM AND DYSPROSIUM 67-07 M15-73584
A MOSSBAUER STUDY OF HYPERFINE INTERACTIONS IN DYSPROSIUM METAL 67-10 M15-78665
PRESSURE DEPENDENCE OF THE MAGNETIC TRANSITIONS IN DYSPROSIUM AND ERBIUM 67-11 M15-80659
ANISOTROPY OF THE HALL EFFECT IN DYSPROSIUM 67-11 M15-80786

DYSPROSIUM, MASS SPECTROMETERS
MASS SPECTROMETRIC STUDIES AT HIGH TEMPERATURES. PT. 17. SUBLIMATION AND VAPOR PRESSURES OF DY --III--, HO --III-- AND ER --III-- FLUORIDES 67-08 M14-75294

DYSPROSIUM, MICROSTRUCTURE
HYDRIDE HABIT PLANES AND DEFORMATION PLANES OF HCP METALS 67-11 M13-81274

DYSPROSIUM, PHASE TRANSFORMATIONS
TEMPERATURE DEPENDENCE OF ELASTIC MODULI OF RUTHENIUM, RHENIUM, COBALT, DYSPROSIUM, AND ERBIUM., A STUDY OF THE ELASTIC ANISTROPY-PHASE TRANSFORMATION RELATIONSHIP 67-09 M17-77721

DYSPROSIUM, THERMAL PROPERTIES
SPECIFIC HEAT OF GADOLINIUM, TERBIUM, DYSPROSIUM, HOLMIUM, AND THULIUM METALS BETWEEN 3 AND 25 K 67-01 M15-58750
THERMAL CONDUCTIVITY OF DYSPROSIUM BETWEEN 1 AND 4 K 67-03 M15-65111

DYSPROSIUM BASE ALLOYS, MAGNETIC PROPERTIES
MAGNETIC TRANSITIONS IN ALLOYS OF GADOLINIUM AND DYSPROSIUM 67-10 M15-78738

DYSPROSIUM COMPOUNDS, REACTIONS /CHEMICAL/
REACTION OF SODIUM CHLORIDE WITH DYSPROSIUM AND GADOLINIUM CHLORIDES 67-11 M14-81310

DYSPROSIUM COMPOUNDS, SINTERING

SENSITIVE RESONANT FREQUENCY TECHNIQUE FOR THE STUDY OF SINTERING KINETICS 67-07 M09-72828

EARING
THE CUBE TEXTURE IN AL AND ITS ROLE IN THE CONTROL OF EARING 67-08 M14-74516

EDDY CURRENT GAGE
SEE EDDY CURRENT TESTING

EDDY CURRENT TESTING
AUTOMATIC INSPECTION DURING FABRICATION OF INTERMEDIATE STEEL PRODUCTS 67-02 M07-62071
NONDESTRUCTIVE MATERIAL TESTING IN THE PRODUCTION OF FUEL ELEMENTS 67-02 M16-60022
ULTRASOUND HUNTS FOR WEAK SPOTS 67-02 M19-58972
METHOD OF ELECTRIC INDUCTION INSPECTION OF THE DEPTH OF SURFACE HARDENING IN GEAR TEETH 67-02 M19-59554
NONDESTRUCTIVE TESTING FOR METALLURGICAL CHANGES IN BOILER TUBES 67-02 M19-60254
PROSPECTUS FOR NDT IN THE SATURN AND ADVANCED SPACE FLIGHT PROGRAMS 67-02 M19-60917
EDDY CURRENT TESTING BECOMES PRODUCTION TOOL 67-02 M19-61125
RECENT ADVANCES IN NONDESTRUCTIVE TESTING TECHNOLOGY AT HANFORD 67-03 M19-65316
METHOD FOR MEASURING ROTATIONAL CORE LOSSES IN SILICON-IRON SHEETS 67-04 M19-67423
NONDESTRUCTIVE TESTING OF GRAY CAST IRON 67-04 M19-67716
A SEMIAUTOMATIC APPARATUS FOR MEASURING THE DECREMENT OF THE FREE VIBRATIONS BY GAS TURBINE BLADES 67-04 M19-67859
EDDY CURRENT TESTING OF TUBES WITH INTERNAL PROBE 67-04 M19-68030
TESTING TUBING FOR A PLASTICS PROCESS 67-04 M19-68153
APPLYING NDT TO WELDS 67-05 M19-68688
EVALUATION OF MECHANICAL PROPERTIES OF 2014-T6 WELDMENTS BY NONDESTRUCTIVE --EDDY CURRENT-- METHODS 67-05 M19-69086
INSPECTION AND DESEAMING LINE FOR SEMI-FINISHED ROLLED STEEL 67-06 M07-70243
INVESTIGATION OF POROUS COMPACTS WITH INCOMPLETE CONTACTS BY MEANS OF EDDY CURRENTS 67-06 M09-71467
ELECTRODELESS MEASUREMENT OF RESISTIVITIES OVER A VERY WIDE RANGE 67-06 M15-70834
EDDY CURRENT AND ULTRASONIC TECHNIQUES FOR INSPECTION OF LARGE PARTS 67-06 M19-70684
NONDESTRUCTIVE TESTING BY MAGNETIC FLAW DETECTION 67-06 M19-70802
NONDESTRUCTIVE TESTING OF SPACE VEHICLE LIQUID PROPELLANT ROCKET ENGINES 67-06 M19-72094
NEW DEVELOPMENTS IN NONDESTRUCTIVE TESTING OF TUBES 67-06 M19-72097
INSPECTION AND DESEAMING LINES AT LYSAGHTS 67-07 M19-72794
NDT APPLIED TO PIPELINE CONSTRUCTION AND OPERATION IN THE U.S.A. 67-07 M19-73315
NONDESTRUCTIVE TESTING OF BERYLLIUM 67-07 M19-73765
AUTOMATION OF WIRE TESTING 67-07 M19-74159
HIGHLY MECHANIZED INSPECTION AND DESEAMING LINES IN A STEELWORKS 67-07 M20-73373
INDUCTIVE METHOD FOR THE CONTROL OF POWDER COMPOSITE PRODUCTS 67-08 M19-74919
ULTRASONIC TESTING LOCATES DEFECTS IN METALS 67-09 M19-76479
THE EDDY CURRENT METHOD USED FOR CONTROLLING THE EFFECTIVENESS WITH WHICH PRODUCTS MADE OF FERROMAGNETIC SUBSTANCE ARE HARDENED 67-10 M19-78381
NONDESTRUCTIVE TESTING OF ADHESIVE BONDS IN AIRCRAFT 67-10 M19-79437
GRAPHITE 67-11 M16-80466
NONDESTRUCTIVE TESTING 67-11 M19-80483
STUDY OF POROUS COMPACTS BY THE EDDY CURRENT METHOD 67-12 M09-82788
THE NONDESTRUCTIVE TESTING OF MILL PRODUCTS BY A QUANTITATIVE EDDY CURRENT PROCESS 67-12 M19-83149

EDDY CURRENTS
IS 3.25 PER CENT SI ORIENTED CORE STEEL THE ULTIMATE 67-07 M15-73512
STRUCTURES AND MAGNETIC PROPERTIES OF GRAIN-ORIENTED 3.2 PER CENT SILICON-IRON 67-07 M15-73522

EDDY CURRENTS, IMPURITY EFFECTS
EFFECT OF SULFUR ON THE HIGH-DENSITY MAGNETIC PROPERTIES OF ORIENTED 3 1/4 PER CENT SILICON STEEL 67-07 M15-73520

EDGE DISLOCATIONS
EDGE DISLOCATION CORE STRUCTURE AND THE PEIERLS BARRIER IN BODY-CENTERED CUBIC IRON 67-03 M13-65371
THE STRESS FIELDS OF DISLOCATION TILT BOUNDARIES IN ANISOTROPIC CUBIC AND DIAMOND-TYPE CRYSTALS 67-03 M13-65378
DISLOCATION-INDUCED DEVIATION OF PHOSPHORUS-DIFFUSION PROFILES IN SILICON 67-04 M14-67102
THE INTERACTION BETWEEN DISLOCATION LOOPS AND STRAIGHT DISLOCATIONS IN AN ANISOTROPIC MATERIAL, GRAPHITE 67-05 M13-68758
DISLOCATION DIPOLES AND DISLOCATION LOOPS 67-05 M13-69461
BORRMANN TOPOGRAPHIC INVESTIGATION ON DISLOCATION CONFIGURATION IN WELL-ANNEALED AND LIGHTLY DEFORMED COPPER CRYSTALS 67-05 M13-69469
DIFFUSION-INDUCED DEFECTS IN SILICON. PT. 1 67-05 M14-69207
CAMEL-HUMPS PEIERLS HILLS IN IRON 67-06 M13-70999
DISLOCATIONS AND STAGE 1 PLASTIC DEFORMATION OF GOLD SINGLE CRYSTALS 67-06 M13-71088
DISLOCATION DISTRIBUTION IN DEFORMED SILVER SINGLE CRYSTALS 67-06 M13-71525
DISLOCATION STUDIES IN BI2TE3 BY ETCH-PIT TECHNIQUE 67-07 M13-72627
APPLICATION OF X-RAY TOPOGRAPHY TO THE ANALYSIS OF THE DISLOCATION ARRANGEMENT IN DEFORMED COPPER SINGLE CRYSTALS 67-07 M13-73061
DISLOCATIONS IN DEFORMED SINGLE CRYSTALS 67-07 M14-73750
RELATIONS BETWEEN ELECTRICAL NOISE AND DISLOCATIONS IN SILICON 67-07 M15-72633
THE PLASTIC DEFORMATION OF THIN COPPER SINGLE CRYSTALS. PT. 2. AN ELECTRON MICROSCOPE STUDY OF THE SURFACE STRUCTURE 67-07 M17-73070
FATIGUE STUDIES OF SINGLE CRYSTAL BERYLLIUM 67-07 M17-73743
STEADY-STATE CREEP OF DISPERSION-STRENGTHENED NICKEL 67-08 M14-75334
THE THEORY OF SUSCEPTIBILITY AND COERCIVE FORCE OF MAGNETIC MATERIALS 67-08 M15-75247
EXPERIMENTS ON THE DEFORMATION OF NIOBIUM SINGLE CRYSTALS. PT. 2. ELECTRON MICROSCOPE STUDY OF DISLOCATION STRUCTURES 67-09 M13-76586
STRESS FIELDS DUE TO DISLOCATION PILE-UPS IN HEXAGONAL METALS DURING ANISOTROPIC TREATMENT 67-09 M13-76794
ARRAYS OF DISLOCATION DIPOLES IN CADMIUM 67-10 M13-79014
DISLOCATIONS AND ELECTRONS IN METALS 67-10 M16-78312
MOBILITY OF EDGE DISLOCATIONS IN THE BASAL SLIP SYSTEM OF ZINC 67-12 M13-83267

EDGE DISLOCATIONS, STRESS EFFECTS
DISLOCATION MULTIPOLES 67-05 M13-69468
THE NATURE AND FORMATION OF BANDS OF DEFORMATION IN SINGLE CRYSTALS OF ALPHA-PHASE COPPER-ALUMINUM ALLOYS 67-07 M14-73055
BURGERS VECTORS OF DISLOCATIONS IN DEFORMED IRON AND IRON ALLOYS 67-07 M14-73500

EDGE JOINTS, MECHANICAL PROPERTIES
THE TECHNOLOGICAL EFFECTIVENESS AND VIBRATION STRENGTH OF WELDED JOINTS IN A DIESEL LOCOMOTIVE BLOCK 67-11 M11-80649

EFFICIENCY
SEE CURRENT EFFICIENCY
THERMAL EFFICIENCY

ELASTIC COLLISIONS
SEE ELASTIC SCATTERING

ELASTIC CONSTANTS
SEE ALSO DYNAMIC MODULUS OF ELASTICITY
ELASTIC LIMIT
MODULUS OF ELASTICITY
POISSONS RATIO
SHEAR MODULUS
THE ELASTIC ENERGIES OF ELLIPTICAL DISLOCATION LOOPS 67-01 M13-57939
LOW-TEMPERATURE ELASTIC PROPERTIES OF ZRC AND TIC 67-01 M17-57116
ELASTIC CONSTANTS OF CADMIUM FROM 300 TO 575 K 67-01 M17-57117
THIRD ORDER ELASTIC CONSTANTS OF GALLIUM ARSENIDE

67-01 M17-57449
X-RAY DETERMINATION OF THE ELASTIC CONSTANTS OF PURE NICKEL AND ITS ALLOYS WITH ALUMINUM
67-01 M17-57690
EFFECT OF ALLOYING ON THE ELASTIC MODULUS, STRENGTH AND PLASTICITY OF TITANIUM AT MINUS 196 TO 800 C 67-01 M17-58129
CALCULATION OF THE POLYCRYSTALLINE RADIOGRAPHIC ELASTIC CONSTANTS OF TWO-PHASE ALPHA- BETA BRASS
67-01 M17-58388
PROPERTIES OF MATERIALS. PT. 2. FIBRE-REINFORCEMENT --THE MECHANICS OF FIBRE-REINFORCED MATERIALS
67-01 M17-58589
ELASTIC RELAXATION DUE TO DEUTERIUM INTERSTITIAL ATOM DIFFUSION IN TANTALUM 67-02 M14-59734
PIEZOELECTRIC, ELASTIC, AND DIELECTRIC CONSTANTS OF HEXAGONAL ZINC SULFIDE 67-02 M15-61657
TEMPERATURE DEPENDENCE OF THE ELASTIC STIFFNESS COEFFICIENTS OF NIOBIUM --COLUMBIUM--
67-02 M17-59423
LIMITING ELASTIC STRESSES IN COPPER
67-02 M17-61818
VIBRATIONS OF INTERSTITIAL LI PLUS IONS IN SILICON. PT. 1. FORCE CONSTANTS 67-03 M13-65562
VIBRATIONS OF INTERSTITIAL LI PLUS IONS IN SILICON. PT. 2. FREQUENCIES OF LOCALIZED MODES
67-03 M13-65563
X-RAY MEASUREMENT OF ELASTIC STRAIN AND LATTICE CONSTANT OF DIFFUSED SILICON 67-03 M14-65769
TEMPERATURE DEPENDENCE OF ELASTIC CONSTANTS AND THERMAL EXPANSION FOR UO2 67-03 M15-65311
INFLUENCE OF TITANIUM ON PHYSICAL PROPERTIES OF IRON-NICKEL ALLOYS 67-04 M17-66089
STRAIGHT WIRE SPRING OF STAINLESS STEEL
67-04 M17-66895
DEFORMATION AND MICROSCOPIC LATTICE STRAINS IN THE POLYCRYSTALLINE METALS --CRYSTAL PLANE DEPENDENCE OF THE PEAK SHIFT OF X-RAY DIFFRACTION LINE IN ELASTICALLY AND PLASTICALLY ANISOTROPIC METALS AFTER TENSILE DEFORMATION--
67-05 M14-68467
CALCULATION OF THE BINDING ENERGY AND ELASTIC MODULI OF MG 67-05 M15-68406
MECHANICAL STRENGTH AND DEFORMATION
67-05 M17-68997
THE ELASTIC CONSTANTS OF MGAG AND MGCU2 SINGLE CRYSTALS 67-05 M17-69575
ELASTIC AND ALLIED MODELS FOR ENERGIES OF POINT DEFECTS 67-06 M13-69940
THE CHANGE OF CRYSTAL ELASTIC CONSTANT CAUSED BY THE PRESENCE OF VACANCIES 67-06 M13-70635
ELASTIC CONSTANTS OF THE FLUX LINE LATTICE IN TYPE 2 SUPERCONDUCTORS 67-06 M16-70987
SINGLE CRYSTALLINE ELASTIC CONSTANTS OF LEAD-THALLIUM ALLOYS 67-06 M17-70423
MEASUREMENT OF BORON FILAMENTARY COMPOSITE BEHAVIOR RELATIVE TO MECHANICAL DESIGN OF RE-ENTRY VEHICLE STRUCTURES 67-06 M17-70616
APPLICATION OF ANISOTROPIC ELASTICITY THEORY TO THE CHOICE OF PRIMARY SLIP SYSTEMS IN HCP METAL CRYSTALS 67-06 M17-71277
THE DEPENDENCE OF THE CALCULATED ELASTIC CONSTANTS ON THE C..A RATIO FOR HEXAGONAL CLOSE-PACKED STRUCTURE METALS 67-06 M17-71498
MECHANICAL PROPERTIES OF SOME TANTALUM ALLOYS
67-06 M17-71528
ON THE CALCULATION OF POLYCRYSTALLINE ELASTICITY CONSTANTS FROM SINGLE CRYSTAL DATA
67-06 M17-71669
TEMPERATURE DEPENDENCE OF THE ELASTIC CONSTANTS OF MOLYBDENUM 67-07 M17-72635
THERMAL EXPANSION AND ELASTIC CONSTANTS OF BETA PRIME PHASE-AGMG. PT. 2. SINGLE-CRYSTAL ELASTIC CONSTANTS FROM 77 TO 750 K 67-07 M17-72639
THE THIRD ORDER ELASTIC CONSTANTS OF DOPED N-TYPE GERMANIUM 67-07 M17-72841
DEPENDENCE OF CALCULATED ELASTIC CONSTANTS ON THE C..A RATIO OF HEXAGONAL CLOSE-PACKED METALS
67-07 M17-72957
PRESENT STATE OF THE DETERMINATION OF STRESSES BY X-RAY INVESTIGATION 67-07 M17-73291
THE INFLUENCE OF THE AVERAGE GRAIN SIZE OF WC AND THE CONTENT OF THE BINDING COBALT PHASE ON X-RAY MEASUREMENTS OF MACROSTRESSES IN SINTERED CARBIDES OF THE SYSTEM WC-CO 67-07 M17-73464
ELASTIC BEHAVIOR 67-07 M17-73683
ELASTIC CONSTANTS OF MAGNESIUM-LITHIUM ALLOYS
67-07 M17-73933
EFFECT OF DISLOCATIONS IN HEXAGONAL LATTICE METALS ON X-RAY BEAM SCATTERING 67-08 M13-75254
INFLUENCE OF SURFACE TREATMENT ON THE ELASTIC PROPERTIES OF THIN RIBBONS OF BR. OF 6.5-0.15 BRONZE 67-08 M17-74986
ELASTIC CONSTANTS OF HEXAGONAL BEO, ZNS AND CDSE
67-08 M17-75130
THE ELASTIC CONSTANTS OF A DIRECTIONALLY-SOLIDIFIED, NICKEL-BASE SUPERALLOY, MAR M-200
67-08 M17-75982
THE WIDTHS OF GLISSILE EXTENDED DISLOCATIONS IN ANISOTROPIC FACE-CENTERED CUBIC CRYSTALS
67-09 M13-76588
SOME PHYSICAL PROPERTIES OF PLUTONIUM AT LOW TEMPERATURES 67-09 M15-76312
GRUNEISEN GAMMA FROM ELASTIC DATA
67-09 M15-77162
MORSE-POTENTIAL EVALUATION OF SECOND- AND THIRD-ORDER ELASTIC CONSTANTS OF SOME CUBIC METALS
67-09 M16-77156
ELASTIC CONSTANTS OF TI-AL-CR-FE-SI SYSTEM ALLOYS
67-09 M17-77297
THE ELASTIC ANISOTROPY OF CRYSTALS
67-09 M17-77425
THE VOIGT-REUSS-HILL APPROXIMATION AND ELASTIC MODULI OF POLYCRYSTALLINE MGO, CAF2, BETA-ZNS, ZNSE, AND CDTE 67-10 M17-79160
PREPARATION OF GALLIUM SELENIDE MONOCRYSTAL AND DETERMINATION OF ITS ELASTIC CONSTANTS
67-10 M17-79247
ELASTIC CONSTANTS OF THE INTERMEDIATE PHASE UCO2
67-11 M17-80129
HIGHER ORDER ELASTIC CONSTANTS AND THE EQUATION OF STATE OF FCC METALS 67-11 M17-80612
ELASTIC CONSTANTS OF TRIGONAL SELENIUM
67-11 M17-81099
THE ELASTIC CONSTANTS OF MERCURY TELLURIDE
67-12 M17-82288
ELECTRONIC EFFECTS IN THE ELASTIC CONSTANTS OF N-TYPE SILICON 67-12 M17-82532
ULTRASONIC STUDIES OF 1060 AND 6061-T6 ALUMINUM
67-12 M17-83270
FATIGUE TESTS AND ELASTIC STRESS MEASUREMENTS ON STEEL WIRE AS AFFECTED BY THE RATE OF WORKHARDENING. EXISTENCE OF A CRITICAL WORKHARDENING RANGE 67-12 M17-83338

ELASTIC CONSTANTS, ANISOTROPY
THE ELASTIC ANISOTROPY OF ROLLED BERYLLIUM
67-12 M17-82576

ELASTIC CONSTANTS, COMPOSITION EFFECTS
CONCENTRATION DEPENDENCES OF ELASTIC CONSTANTS AND DEBYE TEMPERATURES FOR BINARY ALLOYS
67-07 M15-72404

ELASTIC CONSTANTS, PRESSURE EFFECTS
EFFECT OF PRESSURE ON THE ELASTIC PARAMETERS AND STRUCTURE OF CDS 67-09 M17-77172
COMPOSITION AND PRESSURE DEPENDENCE OF THE ELASTIC CONSTANTS OF GOLD-NICKEL ALLOYS
67-11 M17-81389

ELASTIC CONSTANTS, RADIATION EFFECTS
THIRD-ORDER ELASTIC CONSTANTS OF COPPER AT LOW TEMPERATURE 67-12 M16-82530
THE ELASTIC CONSTANTS OF REACTOR GRAPHITES
67-12 M17-82548

ELASTIC CONSTANTS, STRESS EFFECTS
THE EFFECT OF THERMOMECHANICAL TREATMENTS ON THE ELASTIC STORED ENERGY IN TD NICKEL
67-12 M17-82956

ELASTIC CONSTANTS, TEMPERATURE EFFECTS
AN APPARATUS FOR DETERMINING THE ELASTIC CONSTANT OF METALS IN THE 20 TO - 253 C. TEMPERATURE RANGE
67-03 M17-65612
ELASTIC CONSTANTS OF SINGLE CRYSTAL CORUNDUM BELOW ROOM TEMPERATURE 67-05 M17-69573
ELASTIC CONSTANTS AND CALCULATED LATTICE VIBRATION FREQUENCIES OF MG2SN
67-05 M17-69576
SELF-DIFFUSION AND ELASTIC CONSTANTS IN THE ANOMALOUS BCC METALS 67-06 M14-70427
ELASTIC CONSTANTS OF MAGNESIUM THORIUM ALLOY
67-06 M17-71637
TEMPERATURE DEPENDENCE OF THE ELASTIC CONSTANTS OF RUBIDIUM 67-07 M17-73635
DEVICE FOR DETERMINING THE CHARACTERISTICS OF ELASTICITY OF METALS IN THE TEMPERATURE RANGE PLUS 20 TO MINUS 253 C 67-08 M17-74537

ELASTIC DEFORMATION
ELASTIC DEFORMATION IN COLD ROLLING
67-01 M17-57920
THERMAL STRESS AND LOW-CYCLE FATIGUE

67-01 M17-58701
CONTRAST EFFECTS DUE TO ELASTIC ANISOTROPY IN BETA-BRASS 67-02 M13-60814
ANISOTROPY DUE TO PLASTIC DEFORMATION 67-02 M17-58823
EXPERIMENTAL AND THEORETICAL STUDIES OF EXPLOSIVE-INDUCED LARGE DYNAMIC AND PERMANENT DEFORMATIONS OF SIMPLE STRUCTURES 67-04 M08-66677
PROPAGATION OF ELASTIC TWINS IN METALS 67-04 M13-67926
THE BOUNDARY BETWEEN ELASTIC AND PLASTIC DEFORMATION IN STEEL 67-04 M17-67650
NEW WORK ON THE X-RAY DETERMINATION OF STRESSES AND INTERNAL DEFORMATION 67-05 M17-68526
MECHANICAL STRENGTH AND DEFORMATION 67-05 M17-68997
SPRINGBACK CONTROL--KEY TO ACCURACY IN EXPLOSIVE FORMING 67-06 M07-70568
FUNDAMENTAL INVESTIGATIONS INTO EXPLOSIVE FORMING AT MAXIMUM STRAIN RATES 67-07 M17-73026
ON BAUSCHINGERS EFFECT DURING BENDING OF SPRING STEEL STRIP 67-07 M17-73173
FIRING DEFORMATION OF CERAMIC BODIES 67-08 M05-75521
SPRINGBACK BEHAVIOR OF LOW-CARBON STEEL SHEET AFTER STRETCH BENDING 67-08 M17-74518
MECHANICAL CHANGES IN THE SURFACE OF SPOT WELDED DEEPDRAWN STEEL 67-08 M17-74558
ELASTIC DEFORMATION OF FIELD-ION-MICROSCOPE TIPS 67-09 M17-77433
EFFECTS OF SURFACE FILMS ON THE DEFORMATION OF METALS 67-09 M17-77923
DISLOCATION MOTION IN SILICON IRON IN MACROELASTIC STRESS 67-10 M13-79842
LATTICE EXPANSIONS AND POLYCRYSTALLINE DEFORMATIONS 67-10 M14-78340
EFFECT OF MECHANICAL PROPERTIES OF SHEET STEEL ON THE SPRINGBACK OF PRESS-FORMED PARTS 67-11 M17-80503
ELASTIC DEFORMATION OF ROLLS IN METAL POWDER ROLLING 67-12 M09-82206
ELASTIC DEFORMATION OF LATTICE UNDER CREEP CONDITIONS 67-12 M17-82350
FATIGUE STRENGTH UNDER AXIAL LOADING. PT. 5. STRENGTH OF U-SHAPED BELLOWS 67-12 M17-82829
THE DEFORMATION OF THIN FOILS UNDER HYDROSTATIC PRESSURE 67-12 M17-83026
A PLASTIC STRESS ANALYSIS OF CYLINDRICAL WAFERS UNDER ELASTICALLY DEFORMABLE COMPRESSION PLATES 67-12 M17-83250

ELASTIC DEFORMATION, STRESS EFFECTS
PLASTIC INSTABILITY RESULTING FROM UNIAXIAL AND BIAXIAL TENSILE STRESS 67-09 M17-78036

ELASTIC LIMIT
THE EFFECT OF MOLYBDENUM, TUNGSTEN AND VANADIUM ON THE ANNEAL HARDENING OF COLD WORKED 18 CR-12 NI STAINLESS STEEL 67-02 M17-60147
DETERMINATION OF THE ROLE OF PILE IRRADIATION ON THE PLASTIC DEFORMATION OF AN EXTRA-MILD STEEL BY THE MEASURE OF ACTIVATION VOLUME 67-03 M17-65859
MICROSTRAIN BEHAVIOR OF BODY-CENTERED CUBIC METALS 67-06 M17-71533
A SHOCK-INDUCED PHASE TRANSFORMATION IN BISMUTH 67-08 M14-75116
THE ELASTIC LIMIT IN CAST IRONS--LIMIT OF ACCOMMODATION AND ROLE OF THE TIME FACTOR 67-09 M17-77668
STRUCTURAL CHANGES AND MECHANICAL PROPERTIES OF MOLYBDENUM AT ANNEALING 67-10 M17-79229
RELAXATION STABILITY OF 30KHGSA STEEL 67-10 M17-79325
MECHANICAL PROPERTIES OF HIGHLY PURE FE ELECTROLYTICALLY CHARGED BY H2 67-10 M17-79871
THE RELATIONSHIP BETWEEN CHANGES IN FINE STRUCTURE AND THE MICROPLASTIC STRAIN RESISTANCE OF METALS AND ALLOYS 67-11 M17-81159
MARAGING STEEL WITH 18 PER CENT NICKEL 67-12 M17-82466

ELASTIC LIMIT, HEATING EFFECTS
INFLUENCE OF THE AUSTENITIZING HEATING RATE ON THE PROPERTIES OF QUENCHED AND TEMPERED STEELS 67-09 M17-77306

ELASTIC LIMIT, STRESS EFFECTS
TENSILE STRENGTH OF NICKEL WHISKERS 67-06 M17-71976

ELASTIC LIMIT, TEMPERATURE EFFECTS
SOURCE OF LOW-TEMPERATURE ELASTIC LIMIT OF CUBIC CENTERED METALS 67-05 M17-69466

ELASTIC MODULUS
SEE MODULUS OF ELASTICITY

ELASTIC PROPERTIES
SEE ELASTIC CONSTANTS

ELASTIC SCATTERING
FAST NEUTRON SCATTERING FROM BERYLLIUM, SODIUM, AND ALUMINUM 67-06 M16-70548
MEASUREMENT OF DIFFUSION OF GOLD IN COPPER BY ELASTIC SCATTERING OF DEUTERON 67-12 M14-82357

ELASTIC WAVES
SEE SOUND WAVES

ELASTICITY
SEE ALSO PHOTOELASTICITY
VISCOELASTICITY
RIGID TEST BODY FOR METAL ADHESIVES 67-01 M11-58299
APPLICATIONS OF REFRACTORY METALS IN INDUSTRIAL FUR 67-01 M20-58451
CALCULATION OF SPRINGBACK IN SHEET METAL DURING FLANGING USING RUBBER TO APPLY THE PRESSURE 67-02 M08-59884
ELASTIC CHARACTERISTICS OF NIOBIUM-ALUMINIUM ALLOYS 67-02 M17-61178
YOUNGS MODULUS OF CARBIDES OF SOME TRANSITION METALS 67-02 M17-61712
THE BOUNDARY BETWEEN ELASTIC AND PLASTIC DEFORMATION IN STEEL 67-04 M17-67650
THERMAL EXPANSION AND ELASTIC PROPERTIES OF TWO-PHASE CERAMIC BODIES 67-05 M15-68611
INFLUENCE OF SILICON ON THE ELASTICITY OF SPRING STEELS 67-05 M17-68386
ON THE INFLUENCE OF ELASTIC ANISOTROPY ON X-RAY MEASUREMENTS OF LATTICE STRAINS IN THE FERRITE OF FERROUS MATERIALS 67-06 M17-70051
THE NATURE OF THE TEMPERATURE ZONE OF BRITTLENESS IN HEAT RESISTANT ALLOYS OF THE COPPER-NICKEL-BERYLLIUM SYSTEM 67-06 M17-70172
THE INFLUENCE OF ELASTIC ANISOTROPY ON THE PROPAGATION OF FRACTURE 67-06 M17-70645
INFLUENCE OF SURFACE OXIDATION ON THE ELASTIC AFTEREFFECT OF MICROFOILS OF DIFFERENT ALLOYS 67-08 M17-74985
INELASTIC LATERAL STABILITY OF OPEN-SECTION STEEL BEAMS UNDER NONUNIFORM BENDING MOMENT 67-08 M17-75940
CORROSION-RESISTANT AUSTENITIC CR-MN STEELS FOR ELASTIC ELEMENTS 67-08 M20-74956
INFLUENCE OF THE GEOMETRICAL FACTOR OF SINTERED PARTS ON THE MAGNITUDE OF THEIR ELASTIC AFTER-EFFECT 67-09 M09-76921
THERMOELASTIC STRESS PULSES RESULTING FROM PULSED ELECTRON BEAMS 67-10 M17-79410
SECOND-ORDER STRAIN ACCUMULATION IN WORK-HARDENING MEDIA 67-10 M17-79566
MECHANICAL PROPERTIES OF CERAMICS--AN INTRODUCTORY SURVEY 67-11 M05-80669
RESEARCH INTO THE INTERATOMIC REACTIONS IN NIOBIUM-TUNGSTEN-MOLYBDENUM SYSTEM ALLOYS 67-12 M17-82497

ELASTICITY, ANISOTROPY
THE EFFECT OF NEUTRON IRRADIATION ON THE ROLLING TEXTURE OF COPPER 67-12 M16-82872

ELASTICITY, STRESS EFFECTS
EFFECT OF PLASTIC DEFORMATION AND SUBSEQUENT HEAT TREATMENT ON YOUNGS MODULUS AND CRYSTALLOGRAPHIC TEXTURE OF FE-NI-TI INVAR-TYPE ALLOYS 67-04 M17-67386

ELASTICITY, TEMPERATURE EFFECTS
ANHARMONICITY IN NOBLE METALS--SOME THERMAL PROPERTIES 67-05 M15-69812

ELASTOMERS
SEE ALSO RUBBER
URETHANE ELASTIC DIE FORMING 67-09 M08-77804

ELECTRIC ACCUMULATORS
SEE STORAGE BATTERIES

ELECTRIC APPLIANCES
SINGLE EXTRUSION SERVES MANY NEEDS 67-07 M07-73963

ELECTRIC ARC DRILLING
SEE DRILLING
ELECTRIC ARC MELTING

ELECTRIC ARC FURNACES
SEE ALSO PLASMA ARC FURNACES
SUBMERGED ARC ELECTRIC FURNACES
ARC STEELMAKING FURNACES OF POLISH MANUFACTURE 67-01 M04-58178

ELECTRIC ARC FURNACES

REDUCING THE CONSUMPTION OF ARC FURNACE ELECTRODES 67-02 M04-61908
OXY/FUEL BURNERS IN ELECTRIC ARC STEELMAKING 67-03 M04-65827
ELECTRICAL WORKING CONDITIONS FOR ELECTRIC FURNACES INVESTIGATED BY STATISTICAL ECONOMICS USING PUNCHED CARD COMPUTERS 67-04 M04-66209
CONSUMPTION OF ELECTRODES IN ARC FURNACE 67-04 M04-66210
ENERGY RATE INPUT CONTROL OF ARC FURNACES 67-04 M04-67189
THE ELECTRIC FURNACE IN THE STEEL INDUSTRY 67-04 M04-67243
EXPERIENCES IN INCREASING THE PRODUCTION OF ARC FURNACES IN A HIGH-ALLOY STEEL WORKS 67-04 M04-67408
EFFECTS OF ALUMINUM ON THE PROPERTIES AND QUALITY OF GRADE 25L CONVERTER AND ACID ELECTRIC FURNACE STEEL 67-04 M04-67862
STEEL FROM LARGE ARC FURNACES REFINED WITH SYNTHETIC SLAG 67-04 M04-67872
TEMPERATURE CONDITIONS OF THE POOL OF HIGH-CAPACITY ARC STEELMAKING FURNACES 67-05 M04-68324
ANNUAL REVIEW OF ELECTRIC MELTING FURNACES. PT. 3 67-05 M06-69357
NEW ELECTRIC ARC FURNACE INITIATES SEMI-CONTINUOUS CASTING, EXTRUDING AND DRAWING OF COPPER TUBING AT HALSTEADS WYNNE PLANT 67-06 M03-71317
ELECTRIC ARC FURNACE STEELMAKING 67-06 M04-72004
MELTING FURNACES IN MODERN FOUNDRIES 67-06 M06-70978
ELECTRIC ARC FURNACES FOR SMALL FOUNDRIES, INDUSTRIAL RESEARCH STATIONS, AND LABORATORIES IN UNIVERSITIES AND INSTITUTES OF TECHNOLOGY 67-06 M06-71416
INJECTION OF POWDERED MATERIALS INTO ELECTRIC ARC FURNACE TO ACCELERATE THE STEELMAKING REACTIONS 67-07 M04-72546
ON THE ELECTRIC ARC FURNACE, WITH SPECIAL REFERENCE TO LARGE CAPACITY UNITS FOR STEEL PRODUCTION 67-07 M04-72547
MELTING LOSSES IN STEELMAKING PROCESSES 67-07 M04-72563
BATH TEMPERATURES IN LARGE ELECTRIC ARC STEELMAKING FURNACES 67-07 M04-72852
REPORT ON ULTRAHIGH POWER OPERATION OF ELECTRIC STEEL FURNACES 67-07 M04-73099
REMOVAL OF DUST FROM ELECTRIC FURNACE WASTE GASES. PT. 1. EXPERIENCE WITH WET DUST REMOVAL BY VENTURI SCRUBBERS. PT. 2. EXPERIENCE WITH A DRY ELECTROSTATIC FILTER ON A 100-M TON ELECTRIC ARC FURNACE. PT. 3. EXTRACTION OF DUST FROM ARC FURNACES BY MEANS OF ELECTROFILTERS. PT. 4. EXPERIENCE WITH DRAWING OFF THE WASTE GASES AND WITH ELECTRICAL DUST EXTRACTION ON ARC FURNACES 67-07 M04-73240
IMPORTANCE OF THE BASIC OXYGEN LD PROCESS FOR STEEL FOUNDRIES. PT. 1 67-07 M04-73248
PROBLEMS INVOLVED IN THE MANUFACTURE OF HEAVY STEEL CASTINGS WITH LIMITED FACILITIES 67-07 M06-73122
MATERIAL AND HEAT BALANCES FROM SMELTING SULFIDE COPPER-NICKEL ORES IN ELECTRIC FURNACES OF 30,000 KVA CAPACITY 67-08 M03-75087
THE PROPERTIES OF ELECTRODE GRAPHITE AND THEIR EFFECT ON THE USE OF ELECTRODES IN THE ELECTRIC ARC FURNACE. PT. 2. TEMPERATURE DISTRIBUTION IN ELECTRODES USED IN ELECTRIC ARC FURNACES 67-08 M19-75112
USE OF OXYGEN BURNERS IN STEEL MANUFACTURING 67-09 M04-76698
NEW MELTING TECHNOLOGY FOR IMPROVING THE PURITY OF SLAGS OF CRMN ALLOYED CASE-HARDENING STEELS AND CR, CRV ALLOYED HEAT TREATABLE STEELS 67-09 M04-77584
RECENT DEVELOPMENTS IN ELECTRIC ARC FURNACE TECHNOLOGY 67-11 M04-81147

ELECTRIC ARC FURNACES, AUTOMATION
ARC FURNACE ELECTRODE CONTROL 67-05 M04-69173

ELECTRIC ARC FURNACES, HEAT BALANCE
DETERMINING HEAT LOSSES AND EFFICIENCY OF AN ARC STABILIZING FURNACE 67-06 M04-71877

ELECTRIC ARC MELTING
SEE ALSO CONSUMABLE ELECTRODE PROCESSES
PRODUCTION OF 45 PER CENT FERROSILICON IN A CLOSED FURNACE 67-01 M04-57259
INDUSTRIAL TESTS OF MELTING SILICOMANGANESE IN A 10,000 KVA CLOSED ELECTRIC FURNACE AT ZAPOROZHE FERROALLOY WORKS 67-01 M04-58026
REDUCTION OF CALCIUM AND DUCTILITY OF NICKEL-CHROMIUM BASE ALLOYS 67-02 M03-58857
STUDY OF METHODS OF REDUCING NITROGEN CONTENT IN ALUMINOTHERMAL CHROMIUM 67-02 M03-59540
BEHAVIOR OF NITROGEN IN SLAGS AND IN THE METAL DURING MELTING OF ALLOY STEELS 67-02 M04-59878
PRODUCTION OF BALL BEARING STEEL IN ELECTRIC FURNACES OF VARIOUS CAPACITIES 67-02 M04-62144
COLLECTING AND SCRUBBING GASES FROM ELECTRIC STEEL MELTING FURNACES 67-02 M04-62146
CHARACTERISTICS OF STRUCTURE OF A POOL OF A CLOSED SILICOMANGANESE FURNACE 67-02 M04-62147
VOLUMETRIC PROPORTIONING OF COKE BREEZE IN THE PRODUCTION OF FERROSILICON 67-02 M04-62148
MATERIAL BALANCE OF TITANIUM DURING ELECTROMELTING OF STAINLESS STEEL 67-02 M04-62264
CASTING LINING TILES INTO PREHEATED SAND MOLDS 67-02 M05-61803
EFFECT OF MOISTURE CONTENT IN TITANIUM SPONGE ON INGOT HARDNESS 67-02 M17-60572
COLUMBIUM METAL BY THE ALUMINOTHERMIC REDUCTION OF CB2O5 67-03 M03-65007
LARGEST TITANIUM MELTING PLANT 67-03 M03-65149
MODERN IRON MELTING TECHNIQUES AND THEIR APPLICATION 67-03 M06-65003
TRENDS AND PROSPECTS IN THE DEVELOPMENT OF THE TIN SMELTING PROCESS 67-04 M03-67523
ELECTRICAL WORKING CONDITIONS FOR ELECTRIC FURNACES INVESTIGATED BY STATISTICAL ECONOMICS USING PUNCHED CARD COMPUTERS 67-04 M04-66209
THE NEW ELECTRIC STEELWORKS OF MARREL BROTHERS CO. AT RIVE-DE-GIER 67-04 M04-66669
INCREASING THE OUTPUT OF ARC FURNACES USED FOR MELTING G13L STEEL 67-04 M04-66703
RESEARCH ON TECHNOLOGY FOR PRODUCING STEEL IN ARC FURNACES WITH A PRELIMINARY REDUCING PERIOD 67-04 M04-66903
USE OF STEEL CHIPS DURING STEEL MELTING 67-04 M04-67501
STEEL FROM LARGE ARC FURNACES REFINED WITH SYNTHETIC SLAG 67-04 M04-67872
PRODUCTION OF BEARING STEEL IN ELECTRIC FURNACES WITH DIFFERENT CAPACITIES 67-04 M04-68186
SPECIAL FEATURES OF CLOSED SILICOMANGANESE FURNACE BATHS 67-04 M04-68189
COKE CHARGED IN MEASURED VOLUMES WHEN MELTING FERROSILICON 67-04 M04-68190
THE SOLUBILITY OF NITROGEN IN MOLTEN IRON ALLOYS BY ARC AND LEVITATION MELTING 67-04 M14-67588
SELECTING OPTIMUM CHARGE COMPOSITION FOR THE PRODUCTION OF SILICOCALCIUM 67-05 M04-68325
PRODUCING 45 PER CENT FERROSILICON ON A BRIQUETTED CHARGE 67-05 M04-68326
THE MOVEMENT OF HYDROGEN BETWEEN METAL AND SLAG IN STEELMAKING 67-05 M04-69325
COMMERCIAL TESTS ON THE PRODUCTION OF 75 PER CENT FERROSILICON USING TRANSFORMER STEEL SCRAP INSTEAD OF STEEL CHIPS 67-05 M04-69688
INFLUENCE OF THE OXYGEN CONTENT IN LIQUID METAL AND POURING RATE ON THE STRUCTURE OF SEMIKILLED STEEL INGOTS 67-05 M04-69900
OPERATION OF AN ELECTRIC ARC FURNACE BY MEANS OF A PROCESS CONTROL COMPUTER 67-06 M04-70198
CONJOINT UTILIZATION OF USINSK CARBONATE ORES AND DZHEZDINSK WEATHERED ORES 67-06 M04-70741
BUILDING CONTROLS FOR ARC FURNACE OPERATION 67-06 M04-70945
ELECTRIC SMELTING OF PIG IRON FROM CHOKODAM-BULAK ORES 67-06 M04-71102
DEOXIDATION AND REFINING OF STEEL IN ARC FURNACES OF VARIOUS CAPACITY 67-06 M04-71252
SOME ASPECTS OF PRODUCTION OF ALLOY STEELS AND STAINLESS STEEL CASTINGS 67-06 M04-71323
THE HYDROGEN CONTENTS OF LIQUID STEEL FROM THE ELECTRIC ARC FURNACE WHEN USING LUMP LIME, LIME FINES, AND SMALL-SIZE SOFT-BURNT LIME 67-07 M04-72711
SELECTION OF OPTIMUM CHARGE COMPOSITION FOR PRODUCING SILICOCALCIUM 67-07 M04-72853
PRODUCTION OF 45 PER CENT FERROSILICON USING A BRIQUETTED CHARGE 67-07 M04-72854
INDUSTRIAL EXPERIMENTS INTO USING TRANSFORMER STEEL SCRAP INSTEAD OF STEEL CHIPS WHEN PRODUCING 75 PER CENT FERROSILICON 67-07 M04-74074
PRODUCING HIGH-ALLOY STEELS WITH CONTROLLED DELTA FERRITE 67-07 M04-74139

SOME FEATURES OF THE PRODUCTION OF HIGH-PURITY FERROBORON 67-07 M04-74141
A COMPARATIVE ANALYSIS OF THE TECHNICAL-ECONOMIC INDEXES OF STEEL PRODUCTION IN VACUUM ARC AND ELECTROSLAG FURNACES 67-08 M04-74350
STRUCTURE OF THE WORKING AREA OF AN OPEN SILICOMANGANESE FURNACE 67-08 M04-74577
BEHAVIOR OF NITROGEN DURING MELTING OF CHARGE IN AN ARC ELECTRIC FURNACE PRODUCING LOW-CARBON STEEL 67-08 M04-74578
STUDY OF THE PRODUCTION OF FERROMANGANESE FROM CONCENTRATES OF CARBONATE ORES 67-08 M04-74579
USING OXIDIZED USINSK ORES FOR MELTING MANGANESE ALLOYS 67-08 M04-75028
COMPARATIVE INSPECTION OF THE REMELTING CONDITIONS IN THE VACUUM ARC FURNACE AND THE ELECTRON BEAM MULTICHAMBER FURNACE 67-08 M04-75039
PRODUCING STEEL IN ELECTRIC FURNACES USING STEEL CHIP BRIQUETS 67-08 M04-75187
DEOXIDATION AND REMOVAL OF IMPURITIES IN VARIOUS SIZES OF ARC FURNACES 67-08 M04-75721
FOUNDRY MELTING--CUPOLA VS INDUCTION VS ARC 67-08 M06-75529
EVALUATION OF CAST IRON MELTING IN THE CUPOLA, ARC FURNACE AND INDUCTION FURNACE 67-08 M06-75748
QUALITY OF A LARGE INGOT OF KH21N5T STEEL 67-08 M13-76281
CONTROL OF COMPOSITION IN ARC FURNACES 67-09 M04-76423
EFFECTS OF SLAG ON THERMAL PROCESSES IN ELECTRIC FURNACES 67-09 M04-76544
METALLURGICAL FACTORS AFFECTING PROPERTIES OF HEAT RESISTANT STEELS 67-09 M04-76813
TEST UTILIZATION OF SPONGE IRON FOR STEELMAKING IN ARC FURNACES 67-09 M04-76827
THE PRESENT STATE OF REMELTING HIGH-QUALITY STEEL BY SPECIAL METHODS 67-09 M04-77214
METALLURGICAL DETAILS IN THE REMELTING OF S6-5-2 HIGH-SPEED STEEL IN A 200-KW ELECTRON BEAM MULTICHAMBER FURNACE 67-09 M04-77220
MODIFICATION OF THE PURITY LEVEL OF ROLLER BEARING STEEL THROUGH REMELTING AND SPECIAL METHODS 67-09 M04-77226
REFINING STEEL IN ELECTRIC FURNACES BY BLOWING WITH POWDERED MIXTURES IN AN AIR JET 67-09 M04-77629
PRODUCING CHROMIUM-MAGNESIUM NITROGEN-ALLOYED AUSTENITIC STEEL 67-09 M04-77860
A METHOD OF PRODUCING LOW-CARBON STAINLESS STEEL 67-09 M04-78008
CASTING LINING TILES IN HEATED SAND MOULDS 67-09 M05-78075
EXPERIMENTAL DETERMINATION OF THE LIQUID MELTING BATH WHEN REMELTING STEEL IN A 200-KW ELECTRON BEAM MULTIPLE-CHAMBER FURNACE 67-10 M04-78315
IMPROVING QUALITY OF CATALYST STEEL 67-10 M04-79268
EXCHANGE OF HYDROGEN BETWEEN SLAG AND METAL IN THE VARIOUS STEELMAKING PROCESSES 67-10 M04-79672
EXTRANEOUS INCLUSIONS IN ELECTROSLAG AND VACUUM-ARC REMELTED STEEL 67-10 M04-79814
ATTEMPTED THEORETICAL APPROACH TO HIGH MANGANESE STEELMAKING IN A BASIC ARC FURNACE 67-10 M04-79868
CRYSTALLIZATION FRONT IN ELECTRIC-ARC ZONE MELTING 67-10 M14-79631
CHANGES IN VARIOUS MECHANICAL AND SERVICE PROPERTIES THROUGH REMELTING BY SPECIAL METHODS 67-11 M04-80201
INDUSTRIAL EXPERIENCES WITH A LARGE VACUUM ELECTRIC ARC FURNACE WITH SELFFEEDING ELECTRODES 67-11 M04-80205
THE INFLUENCE OF ALLOYING ELEMENTS ON THE O2 AND N2 CONTENTS OF STEEL, REMELTED IN A VACUUM ARC FURNACE 67-11 M04-80206
IMPROVING STEEL QUALITY THROUGH VACUUM ELECTRIC ARC MELTING AND THROUGH ELECTROSLAG REMELTING 67-11 M04-80211
IMPROVING THE QUALITY OF DI-1 STEEL IN ELECTROSLAG AND VACUUM ARC MELTING 67-11 M04-80856
REFINING STEEL IN ELECTRIC FURNACES BY THE INJECTION OF POWDERED MIXTURES INTO THE AIR JET 67-11 M04-80917
DEGASSING SHKH15 STEEL 67-11 M04-81010
OPERATING EXPERIENCE WITH SKB-6012 ELECTRIC FURNACES FOR SMELTING SILICOALUMINUM 67-11 M04-81305
OPERATING PATTERNS OF ELECTROMAGNETIC STIRRERS FOR MOLTEN STEEL 67-11 M04-81430
LOW-ALLOY MANGANESE STEEL..MELTING TECHNOLOGY AND IMPROVED PROPERTIES 67-11 M04-81431
HEARTH AND WALL LIFE IN AN ARC FURNACE WORKING OFF A LONG RUN OF STAINLESS STEEL HEATS 67-11 M04-81608
HOW ALLOYING ELEMENTS AFFECT OXYGEN AND NITROGEN CONTENT IN STEEL FROM AN ARC VACUUM FURNACE 67-11 M04-81630
THE QUESTION OF THE CHANGES OF THE SOLUTION AND TRANSFORMATION BEHAVIOR OF ROLLER BEARING STEEL, 100 CR 6, AFTER REMELTING WITH THE ESU PROCESS WITH CONSIDERATION FOR THE FABRICATION OF SCIENTIFIC APPARATUS 67-11 M14-80215
INFLUENCE OF THE MELTING PROCESS ON THE NOTCH TOUGHNESS OF 100 CR 6 STEEL 67-11 M17-80217
METALLURGICAL RECULIARITIES IN THE REMELTING OF HIGH-SPEED STEEL S 6-5-2 IN THE MULTIPLE-CHAMBERED ELECTRON BEAM FURNACE, EMO 200 67-11 M17-80220
INVESTIGATION OF THE REDUCING PERIOD IN ELECTROSMELTING OF KH18N10T STEEL 67-12 M04-81709
DEOXIDIZING METAL IN HIGH-CAPACITY ARC FURNACES 67-12 M04-81866
PRODUCING HEAVY-GAGE CHROMIUM-NICKEL STEEL CONTAINING NIOBIUM 67-12 M04-81867
ELECTRIC ARC STEELMAKING WITH CONTINUOUSLY CHARGED REDUCED PELLETS 67-12 M04-82650
NEW STEEL PROCESS COMBINES REFINING AND DEGASSING IN INDUCTION STIRRED FURNACE LADLE 67-12 M04-82883
MANUFACTURE AND PROPERTIES OF THE STEEL ST45/60 67-12 M04-83347
DESULFURIZING NONDEOXIDIZED SHKH15 STEEL BY TREATING IT WITH ELECTRIC SLAGS WHEN TAPPED TO THE LADLE 67-12 M04-83467
EFFECT OF CHEMICAL COMPOSITION OF THE METAL AND THE SMELTING AND TEEMING TECHNOLOGY ON THE QUALITY OF TITANIUM STRUCTURAL STEELS 67-12 M04-83468
EFFECTS OF ELECTROMAGNETIC FIELDS ON THERMOCOUPLE READINGS WHEN METAL TEMPERATURE IN ELECTRIC FURNACES IS CONTINUOUSLY RECORDED 67-12 M19-83426

ELECTRIC ARC MELTING, AUTOMATION
ARC FURNACE ELECTRODE CONTROL 67-05 M04-69173
THE APPLICATION OF COMPUTERS IN AN ELECTRIC-ARC MELTING SHOP 67-07 M06-74011
SIMULATION OF CLOSED-LOOP ENERGY CONTROL APPLIED TO ARC FURNACES 67-11 M04-81138

ELECTRIC ARC MELTING, QUALITY CONTROL
MEASURING OXYGEN CONCENTRATION IN METAL IN AN ARC FURNACE BY THE ELECTROMOTIVE FORCE METHOD 67-12 M04-82306

ELECTRIC ARC MELTING, SLAGGING
PRODUCING A MANGANESE-ALUMINUM ELECTRIC STEEL UNDER A LIME-ALUMINA SLAG 67-07 M04-73780
INFLUENCE OF SLAG ON THE THERMAL PROCESSES IN AN ELECTRIC FURNACE 67-07 M04-73781
MELTING MANGANESE--ALUMINIUM STEEL IN AN ELECTRIC FURNACE UNDER A LIME-ALUMINA SLAG 67-09 M04-76543

ELECTRIC ARC MELTING, SLAGS
PHASE COMPOSITION OF SLAGS OBTAINED DURING EXTRACTION OF FERROBORON 67-02 M04-60729

ELECTRIC ARC WELDING
SEE ARC WELDING

ELECTRIC ARCS
SEE ALSO PLASMA ARCS
ARC PRESSURE IN PLUG WELDING WITH DEEP FUSION 67-01 M11-57526
ARC PRESSURE IN DEEP PENETRATION PLUG WELDING 67-02 M11-61145
CERTAIN POWER PARAMETERS OF THE ARGON SHIELDED ARC FROM A CONSUMABLE ELECTRODE 67-04 M11-67351
HYDRODYNAMIC CONTROL OF ARC FUSION DURING CO2-SHIELDED ARC WELDING WITH CONSUMABLE ELECTRODE 67-10 M11-78407
STUDY OF THE PARAMETERS OF AN ELECTRICAL ARC IN ARGON 67-12 M11-83185
DYNAMIC CHARACTERISTICS OF THE PULSE ARC DURING ARGON ARC WELDING 67-12 M11-83186

ELECTRIC ARCS, THERMAL PROPERTIES
THERMAL EFFICIENCY OF A FAST-MOVING ARC 67-12 M11-83183
POWER EFFICIENCY OF ARC RESISTANCE BUTT WELDING OF

ELECTRIC ARCS
STEEL TUBES 67-12 M11-83184
ELECTRIC ASSEMBLIES
SEE ELECTRIC DEVICES
ELECTRIC BATTERIES
SEE ALSO STORAGE BATTERIES
A COMPARATIVE STUDY OF LEAD-ACID BATTERIES 67-02 M20-58933
ELECTRON MICROBEAM PROBE ANALYSES OF NICKEL-CADMIUM BATTERY PLATES 67-05 M13-68776
SILVER DEPOSITION ON BATTERY SEPARATORS 67-09 M14-77145
CRYSTALLOGRAPHIC CHANGES ENCOUNTERED IN THE PROCESSING OF POSITIVE LEAD-ACID BATTERY ACTIVE MATERIAL 67-11 M15-80826
INFLUENCE OF POROSITY ON PROPERTIES OF POWDER METALLURGY ELECTRODES OF CARBONYL 67-12 M09-82212
ELECTRIC BATTERIES, CORROSION
ANODIC CORROSION OF NICKEL SINTER IN POSITIVE ELECTRODES OF NICKEL-CADMIUM BATTERIES CONTAINING CARBONATE 67-06 M18-71689
ELECTRIC BATTERIES, MATERIALS
STUDY OF THE ELECTROCHEMICAL PROPERTIES OF MANGANESE DURING OPERATION OF CHEMICAL CURRENT SOURCES 67-11 M18-80428
ELECTRIC BATTERIES, STRUCTURAL MATERIALS
ELECTROLYTIC PRECIPITATION OF ZINC POWDERS FROM ZINCATE SOLUTIONS 67-08 M09-75203
ELECTRIC CABLES
SEE TRANSMISSION LINES
ELECTRIC CIRCUITS
SEE ALSO INTEGRATED CIRCUITS
POWER SUPPLY CIRCUITS
PRINTED CIRCUITS
SOME EXPERIMENTS IN THE REACTIVE EVAPORATION OF TANTALUM OXIDE 67-08 M14-75160
ELECTRIC CIRCUITS, WELDING
PULSATION LASER WELDING--A REVIEW 67-02 M11-60129
ULTRASONIC WELDING WITH PULSED INDIRECT HEATING OF MICROCIRCUIT ELEMENTS 67-04 M11-66812
PULSED LASER BEAM WELDING 67-04 M11-67669
ULTRASONIC WELDING OF ALUMINUM CONDUCTORS TO SPUTTERED GOLD FOILS 67-09 M11-78124
ELECTRIC COMMUNICATION SYSTEMS
ANALYSIS OF THE CONTAMINANTS IN NICKEL OF GRADED PURITY 67-06 M19-70401
ELECTRIC COMPONENTS
SEE ELECTRIC DEVICES
ELECTRIC CONDENSERS
SEE CAPACITORS
ELECTRIC CONDUCTORS /MATERIALS/
SEE ALSO ANOLYTES
CATHOLYTES
ELECTROLYTES
PHOTOCONDUCTORS
SUPERCONDUCTORS
METHOD OF PRODUCING SEMICONDUCTOR MOUNTS 67-02 M11-60937
A SPECIALLY PROCESSED BORON DEOXIDIZED COPPER DEVELOPED FOR ELECTRICAL CONDUCTORS 67-09 M20-76407
ELECTRIC CONDUCTORS /MATERIALS/, CORROSION
CORROSION RESISTANCE OF STEEL-CORED ALUMINUM AND ALUMINUM ALLOY CONDUCTORS 67-01 M18-58365
ELECTRIC CONDUCTORS /MATERIALS/, ELECTRICAL PROPERTIES
THEORY OF SIZE EFFECTS IN ELECTRICAL CONDUCTIVITY 67-01 M15-57941
ELECTRIC CONDUCTORS /MATERIALS/, MECHANICAL PROPERTIES
INCREASING THE STRENGTH OF CONDUCTORS MADE OF COPPER ALLOYS 67-08 M17-74862
ELECTRIC CONDUCTORS /MATERIALS/, POWDER METALLURGY
USE OF POWDER COMPOSITE MAGNETIC CONDUCTORS IN ALTERNATING CURRENT DEVICES 67-08 M20-74912
ELECTRIC CONDUCTORS /MATERIALS/, SURFACE PROPERTIES
MECHANICAL DISRUPTION OF SURFACE FILMS ON METALS 67-01 M17-57208
ELECTRIC CONNECTORS, COATING
ELECTRODEPOSITED CONTACT METALS 67-06 M12-70601
ELECTRIC CONTACTS
PRECIOUS METAL PLATING BATHS AND THEIR PRACTICAL APPLICATIONS 67-01 M12-58303
SUPERCONDUCTING CONTACTS IN HIGH MAGNETIC FIELDS 67-01 M16-57973
APPARATUS FOR WELDING BIMETALLIC CONTACTS 67-02 M11-60941
GOLD ELECTRICAL CONTACTS 67-02 M20-58918
SCIENCE FOR ELECTROPLATERS. PT. 112. PALLADIUM 67-03 M12-65044
OHMIC CONTACTS TO GAAS BY A SIMPLE LOW TEMPERATURE ALLOYING PROCESS 67-06 M16-72179
A BRONZE ALLOY FOR ELECTRIC TRAIN SLIP RING COMPONENTS 67-06 M17-70349
METAL-SEMICONDUCTOR CONTACTS FOR GAAS BULK EFFECT DEVICES 67-07 M16-73180
ELECTRICAL CONTACTS--MANUFACTURE 67-08 M08-75629
ELECTRICAL CONTACTS--APPLICATIONS 67-08 M20-75630
CHARACTERISTICS OF CU-W-CO AND CU-WC-CO CONTACT ALLOYS FOR HEAVY CURRENT APPLICATIONS 67-09 M15-78226
SOME ASPECTS OF THE MANUFACTURE OF PRECIOUS-METAL CONTACTS 67-09 M20-77741
CHARACTERISTICS OF SOFT METALS FOR ELECTRICAL CONNECTIONS 67-09 M20-78108
DISPERSIONED HARDENED AG ALLOYS--NEW MATERIALS FOR ELECTRICAL CONTACTS 67-10 M10-79080
CURRENT RESEARCH IN THE PRECIOUS METAL PLATING OF ELECTRIC CONTACTS 67-10 M12-79937
PRECIOUS METAL ELECTRODEPOSITS FOR ELECTRICAL CONTACT SERVICE 67-10 M12-79938
PREPARATION OF OHMIC CONTACTS FOR N-TYPE GAAS 67-11 M14-80834
EVAPORATED METALLIC CONTACTS OT CONDUCTING STRONTIUM TITANATE SINGLE CRYSTALS 67-11 M15-81085
PROPERTIES OF ELECTRODEPOSITED AG-CU ALLOYS. PT. 4. METALLURGICAL STUDIES ON ELECTRICAL CONTACT MATERIALS 67-12 M12-83509
A GOLD-BASE ALLOY 67-12 M20-83386
ELECTRIC CONTACTS, BRAZING
BRAZING OF METAL-CERAMIC CONTACTS 67-09 M11-77619
BRAZING OF GRAPHITE AND SOME OTHER MATERIALS 67-10 M11-78406
ELECTRIC CONTACTS, COATING
THE ELECTRIC-SPARK DEPOSITION OF CONTACT METALS ON STATIONARY HEAVY-CURRENT CONTACTS 67-01 M12-58229
THE EFFECT OF NONMETALLIC FILMS ON THE CONTACT RESISTANCE BETWEEN ELECTRICAL CONTACTS WHICH ARE ELECTROPLATED WITH SILVER 67-02 M12-59971
ELECTRODEPOSITED CONTACT METALS 67-06 M12-70601
METALLURGICAL STUDIES ON ELECTRICAL CONTACT MATERIALS. PT. 3. STUDIES ON BATH COMPOSITIONS FOR ELECTROPLATING OF SILVER-COPPER ALLOYS 67-11 M12-80506
THE CONTROL OF GOLD PLATING 67-12 M12-83583
ELECTRIC CONTACTS, PLATING
NEW DEVELOPMENTS IN THE SURFACE SCIENCE OF ELECTRIC CONTACTS 67-03 M18-65416
ELECTRIC CONTACTS, POWDER METALLURGY
CHEMICAL METHOD FOR PRODUCTION OF THE MATERIALS FOR ELECTRIC CONTACTS 67-08 M09-74319
POWDER COMPOSITE CONTACTS OF INCREASED WEAR RESISTANCE 67-08 M09-75454
PRODUCTION OF POWDER COMPOSITE COLLECTOR PLATES FOR A DK-908 ELECTRIC MOTOR 67-08 M09-75469
ROTOR-TYPE CONTINUOUS MECHANIZED LINE FOR PRODUCTION OF POWDER COMPOSITE CONTACTS 67-08 M09-75476
TERNARY COMPOSITES FOR ELECTRIC CONTACTS 67-12 M09-82211
ELECTRIC CONTACTS, SOLDERING
THE ATTAINMENT OF THE BEST POSSIBLE SOLDERABILITY IN THE ELECTRONIC INDUSTRY 67-11 M11-81026
DEVELOPING NEW FLUXES FOR SOFT SOLDERING AND THE RESULTANT DIFFICULTIES 67-11 M11-81027
ELECTRIC CONTACTS, SUPERCONDUCTIVITY
SUPERCONDUCTING CONTACTS IN HIGH MAGNETIC FIELDS 67-01 M16-57973
SUPERCONDUCTING CONTACTS UNDER MECHANICAL LOADS 67-06 M16-71027
ELECTRIC CONTACTS, SURFACE PROPERTIES
SURFACE PROPERTIES.. KEY TO CONTACT SELECTION 67-11 M20-80525
ELECTRIC CONTACTS, WELDING
WELDING CHARACTERISTICS OF SILVER AND ITS ALLOYS FOR ELECTRICAL CONTACTS 67-04 M11-67580
NONWELDING CONTACT MATERIALS FOR HEAVY CURRENT APPLICATIONS 67-09 M11-77997
CHARACTERISTICS OF THE ASTM TESTING METHOD FOR ELECTRICAL CONTACT MATERIALS AND ITS MODIFICATION 67-09 M11-77998
TERMINATING ALUMINUM CONDUCTORS

67-12 M11-82469

ELECTRIC CONVERTERS
SEE RECTIFIERS
SELENIUM RECTIFIERS

ELECTRIC CURRENT
SEE ALSO ALTERNATING CURRENT
DIRECT CURRENT
EDDY CURRENTS
ELECTRIC ARCS
ELECTRIC SPARKS
PLASMA ARCS
CURRENT SATURATION AND INSTABILITIES IN CDS CRYSTALS 67-04 M16-66775
TRANSIENT CURRENT DECAY IN SEMICONDUCTING ZNO DUE TO THE ACOUSTO-ELECTRIC EFFECT 67-05 M16-69099
CHARGE TRANSPORT PHENOMENA IN MOS SYSTEM 67-05 M16-69293
SPACE-CHARGE CURRENTS IN N-TYPE GAAS 67-05 M16-69298
EFFECTS OF PREOXIDATION TREATMENT ON MOS TRANSISTOR CHARACTERISTICS 67-05 M16-69299
NEGATIVE RESISTANCE IN CADMIUM SULPHIDE FILMS 67-06 M15-71044
INFLUENCE OF INTERELECTRODE DISTANCE ON THE OPERATION OF A CESIUM THERMIONIC CONVERTER 67-06 M16-70494
INTERACTION OF CONDUCTION AND INDUCED CURRENTS IN NB3ZR WIRES SUBJECTED TO AXIAL FIELDS 67-08 M15-75553
A NEW CURRENT INSTABILITY IN N-TYPE GERMANIUM 67-09 M15-77153
MEASUREMENT OF THOMSON HEAT IN METALLIC SYSTEMS 67-10 M15-79998
NONOHMIC AND OSCILLATORY BEHAVIORS AT STRONG ELECTRIC FIELD IN TELLURIUM 67-11 M15-80815
PHOTOELECTRIC PROPERTIES OF AS2SE3 LAYERS 67-11 M15-80816
ELECTRICAL AND OPTICAL PROPERTIES OF SNO2-SI HETEROJUNCTIONS 67-11 M15-80823
CURRENT OSCILLATIONS IN CO-DOPED SI P-I-N STRUCTURES 67-12 M15-83014
LIQUID PHASE MAGNETOHYDRODYNAMIC GENERATORS AND THE TECHNOLOGY OF THE ALKALI METALS 67-12 M20-82835

ELECTRIC CURRENT, STRESS EFFECTS
UNIAXIAL STRESS EFFECT OF GE PN JUNCTIONS DOPED WITH COPPER 67-07 M16-73321

ELECTRIC DEVICES
GOLD CONDUCTORS, RESISTORS, AND THERMO-COUPLES 67-02 M15-58920
THE APPLICATION OF ELECTRONIC SORTING TO MINERALS BENEFICIATION 67-05 M02-68644
LOW-ALLOY HEAT PROOF COPPER ALLOYS WITH HIGH ELECTRICAL CONDUCTIVITY 67-06 M15-69986
ELECTROLESS PLATING FOR ELECTRONIC APPLICATIONS 67-07 M12-72771
ELECTROPLATED PLASTICS IN THE ELECTRONICS INDUSTRY 67-07 M12-73642
CERAMICS IN HYBRID INTEGRATED CIRCUITS 67-07 M20-73204
HUNTINGTON ALLOYS FOR ELECTRONIC USES 67-08 M20-74570
ELECTRICAL AND ELECTRONIC APPLICATIONS 67-08 M20-74834
PRODUCTION ENGINEERING RESEARCHES IN THE ELECTRONICS INDUSTRY 67-09 M20-78019
PRESSING OF MOLYBDENUM TUBES 67-12 M08-81798

ELECTRIC DEVICES, COATING
APPLICATIONS OF METAL FINISHING IN PRINTED CIRCUITS. PT. 2 67-10 M12-79003
PERMANENT PROTECTION FOR ELECTRICAL EQUIPMENT AND APPARATUS 67-11 M12-81256
PLATING ON DIFFICULT-TO-PLATE MATERIALS 67-12 M12-81750
PLASMA-SPRAYED DIELECTRIC COATINGS FOR HEAT SINKS IN ELECTRONIC PACKAGING 67-12 M12-81895
DEPOSITION AND PROPERTIES OF ALUMINUM OXIDE OBTAINED BY PYROLYTIC DECOMPOSITION OF AN ALUMINUM ALKOXIDE 67-12 M12-82459

ELECTRIC DEVICES, COATINGS
ELECTROPLATED METALLIC COATINGS IN THE ELECTRICAL INDUSTRY 67-12 M12-82937

ELECTRIC DEVICES, JOINING
ELECTRICAL, ELECTRONIC COMPONENTS CONNECTED BY DIE CASTING 67-10 M06-78627

ELECTRIC DEVICES, MATERIALS
PECULIARITIES OF THE VACUUM-THERMAL METHOD OF PREPARATION AND SOME PROPERTIES OF YTTRIUM AND GADOLINIUM BORIDES 67-04 M09-66266
NICKEL SILVERS--THE VERSATILE ALLOYS 67-06 M01-70018
PRESSURE WORKING OF THIN-WALLED PARTS OF MOLYBDENUM 67-06 M07-70477
VACUUM-THERMAL PREPARATION OF YTTRIUM AND GADOLINIUM BORIDES, AND SOME OF THEIR PROPERTIES 67-10 M09-78998

ELECTRIC DEVICES, POWDER METALLURGY
USE OF POWDER COMPOSITE MAGNETIC CONDUCTORS IN ALTERNATING CURRENT DEVICES 67-08 M20-74912

ELECTRIC DEVICES, SURFACE FINISHING
METAL STRIPPING IN THE ELECTRONICS INDUSTRY 67-12 M12-81752

ELECTRIC DEVICES, WELDING
E/B WELDS JOG COMPUTER MEMORY 67-05 M11-68480
WELDING IN ELECTRONICS 67-10 M11-78799
CALCULATING TEMPERATURE DISTRIBUTION IN THE CONTACT WHEN PRESSURE MICROWELDING WITH INDIRECT HEAT 67-12 M11-81911
TEMPERATURE DISTRIBUTION DURING PRESSURE WELDING WITH INDIRECT PULSE HEATING 67-12 M19-82628

ELECTRIC DISCHARGE GRINDING
THE PRODUCTION APPROACH TO EDM 67-01 M08-58525
4 1/2 REASONS TO CONSIDER VACUUM DIELECTRIC FLOW 67-02 M08-61101
PUTTING ACCURACY INTO EDM 67-02 M08-61813
EDG--PRECISION FORM GRINDING IN CARBIDE 67-03 M08-65401
EDM FLEXES ITS MUSCLES 67-03 M08-65666
EDM ELECTRODE MATERIALS AND ELECTRODE MATERIAL EVALUATION 67-04 M08-66354
AN INVESTIGATION OF THE VARIABLES INFLUENCING SEMI-FINISH MACHINING BY EDM 67-04 M08-66355
THE MACHINE TOOL, AND SPEEDS AND FEEDS 67-05 M08-68508
MATCHING THE EDM ELECTRODE MATERIAL TO THE EDM APPLICATION 67-06 M08-71481
EDM THRU-HOLE APPLICATIONS 67-06 M08-71485
ECDM A REVOLUTION IN GRINDING TECHNIQUE 67-07 M08-74102
ECDM--A NEW DIMENSION IN GRINDING 67-07 M08-74258

ELECTRIC DISCHARGE MACHINING
SEE SPARK MACHINING

ELECTRIC DISCHARGES
SEE ELECTRIC ARCS
ELECTRIC SPARKS
PLASMA ARCS

ELECTRIC EQUIPMENT
ELECTRICAL AND ELECTRONIC APPLICATIONS 67-08 M20-74834

ELECTRIC EQUIPMENT, CORROSION
CORROSION PROTECTION OF ELECTRICAL EQUIPMENT 67-01 M18-58517

ELECTRIC EQUIPMENT, STANDARDS
MATERIALS ENGINEERING FOR ELECTRONIC HARDWARE 67-10 M20-78762

ELECTRIC EQUIPMENT, WELDING
MODERNIZED RIGGING FOR SPOT WELDING THIN PIECES 67-01 M11-57538
MODIFIED EQUIPMENT FOR THE SPOT WELDING OF THIN COMPONENTS 67-02 M11-61157
COLD WELDING OF TRANSISTOR HOUSINGS 67-06 M11-71655
CHARACTERISTICS OF AUTOMATIC ARC WELDING OF ALUMINUM TO COPPER WITH APPLICATION OF FLUXES 67-06 M11-71852
ELECTRON BEAM WELDING OF IMPREGNATED CATHODES OF ELECTROVACUUM DEVICES 67-08 M11-75416
COLD WELDING OF TRANSISTOR BODIES 67-10 M11-79623
THE AUTOMATIC SUBMERGED ARC WELDING OF ALUMINIUM TO COPPER 67-11 M11-80884
THE ELECTRON-BEAM WELDING OF IMPREGNATED CATHODES FOR VACUUM-ELECTRIC DEVICES 67-12 M11-82037

ELECTRIC EYES
SEE PHOTOELECTRIC CELLS

ELECTRIC FIELDS
SEE ALSO ELECTROSTATIC FIELDS
SURFACE PINNED LAYER-LIKE FIELD INHOMOGENEITIES IN CDS 67-02 M15-61526
HIGH FIELD MOBILITY OF PHOTOELECTRONS IN CDS 67-04 M16-66773
HIGH FIELD EFFECTS IN N-TYPE INSB 67-04 M16-66774
THE EFFECT OF APPLIED ELECTRIC FIELD ON DIFFUSION OF IMPURITIES IN GALLIUM ARSENIDE 67-06 M16-70986

ELECTRIC FIELDS
A MOSSBAUER EFFECT INVESTIGATION OF THE CRYSTALLINE ELECTRIC FIELD IN THULIUM METAL 67-06 M16-71988
FIELD DISTRIBUTION IN N-TYPE GAAS UNDER HIGH ELECTRIC FIELD 67-06 M16-72047
MAGNETIC RESONANCE IN SINGLE-CRYSTAL TERBIUM METAL AT 100 GHZ 67-08 M15-75926
SELF-DIFFUSION OF GERMANIUM ALONG INHERENT DISLOCATIONS IN AN EXTERNAL ELECTRIC FIELD 67-10 M14-80088
GRAIN BOUNDARY DISPLACEMENT IN A METAL UNDER THE EFFECT OF AN ELECTRIC FIELD 67-11 M14-80247
SATURATED PHOTOCURRENTS IN CD4GES6 67-11 M15-81676
DETERMINATION OF THE REDUCED EFFECTIVE MASS IN ZINC SELENIDE 67-11 M16-81689
THE EFFECT OF AN ELECTRIC FIELD UPON SOLUTE REDISTRIBUTION DURING SOLIDIFICATION OF BI-SN ALLOYS 67-12 M14-82968
EFFECT OF CURRENT DENSITY ON FIELD-FREEZING EXPERIMENTS 67-12 M14-82982
ELECTRIC FIELDS, IMPURITY EFFECTS
EFFECTS OF EXTERNAL AND INTERNAL ELECTRIC FIELDS ON THE BORON ACCEPTOR STATES IN SILICON 67-11 M16-80328
ELECTRIC FURNACE PROCESS
SEE ELECTRIC FURNACES
ELECTRIC FURNACES
SEE ALSO CHANNEL INDUCTION FURNACES
CORELESS INDUCTION FURNACES
ELECTRIC ARC FURNACES
ELECTRIC INDUCTION FURNACES
ELECTRIC RESISTANCE FURNACES
ELECTRON BEAM FURNACES
LOW FREQUENCY INDUCTION FURNACES
PLASMA ARC FURNACES
SUBMERGED ARC ELECTRIC FURNACES
VACUUM FURNACES
VACUUM INDUCTION FURNACES
REFRACTORIES FOR ELECTRIC FURNACES SIDE WALLS AND BOTTOMS 67-01 M04-57522
DESIGN AND OPERATION OF REPUBLICS BOF SHOP AT GADSDEN 67-01 M04-58491
PRODUCTION OF SILICOMANGANESE BY A TOTALLY ENCLOSED HEARTH ROTATING TYPE LARGE ELECTRIC FURNACE 67-02 M04-60039
CHANGES IN OXYGEN CONCENTRATION AND EQUILIBRIUM OXYGEN CONCENTRATION DURING DEOXIDIATION, TEEMING AND SOLIDIFICATION OF STEEL 67-02 M04-60725
RECENT DEVELOPMENTS IN ELECTRIC REHEAT FURNACES 67-02 M07-59150
NEW ELECTRICAL FURNACES FOR REHEATING SLAB 67-02 M07-59818
EVOLUTION OF ELECTRIC FURNACES FOR VACUUM MELTING OF URANIUM 67-04 M03-67218
STRESS RELIEVING FURNACES OF MODULAR CONSTRUCTION 67-04 M10-67494
STRESS RELIEVING FURNACES OF MODULAR CONSTRUCTION 67-04 M20-66645
IRONMAKING WITHOUT A BLAST FURNACE 67-05 M04-69153
ON THE AMOUNT AND COMPOSITION OF DUST WHEN PRODUCING STEEL IN BASIC ELECTRIC FURNACES 67-06 M04-70277
CONTINUOUS CASTING AT NOVO LIPETSK 67-07 M04-72810
ELECTRIC FURNACE PRODUCTIVITY 67-07 M04-72899
INVESTIGATION OF CARBURIZATION AND DESULFURIZATION IN LOW-SHAFT ELECTRIC FURNACES 67-07 M04-73238
CHARGE BALANCE AND HEAT BALANCE OF THE FURNACE FOR MELTING TITANIUM SLAGS 67-08 M03-76243
OPERATING A CONTINUOUS CASTING MACHINE 67-08 M04-74497
AUTOMATIC TEMPERATURE CONTROL OF INDUSTRIAL FURNACES WITH FUEL RETURN 67-08 M10-75656
THE USE OF PREREDUCED MATERIALS IN THE ELECTRIC IRONMAKING FURNACE. PT. 2 67-09 M04-76395
ELECTRIC ARC STEELMAKING WITH CONTINUOUSLY CHARGED REDUCED PELLETS 67-10 M04-78616
THE AMOUNT AND COMPOSITION OF THE DUST PRODUCED WHILE MELTING STEEL IN THE BASIC ELECTRIC FURNACE 67-10 M04-79673
RECENT HEAT TREATMENT FURNACE INSTALLATIONS. ANNUAL SURVEY OF DEVELOPMENTS 67-10 M10-78560
EXAMPLES OF THE APPLICATION OF CONTINUOUS FURNACES 67-10 M10-79792
NITROGEN DIFFUSION IN ELECTRIC STEELMAKING SLAGS 67-12 M14-81702
ELECTRIC FURNACES, AUTOMATION
LABORATORY ELECTRIC CONVERTER 67-07 M04-73050
ELECTRIC FURNACES, DESIGN
UNITS FOR SHEET QUENCHING AL ALLOYS 67-01 M10-57279
TODAYS TREND TOWARDS LARGER ELECTRIC SMELTING FURNACES--SOME FEATURES IN DESIGN AND OPERATION 67-08 M04-75316
ELECTRIC GENERATORS
SEE ALTERNATORS
FUEL CELLS
MAGNETOHYDRODYNAMIC GENERATORS
SOLAR GENERATORS
THERMIONIC GENERATORS
THERMOELECTRIC GENERATORS
TURBOGENERATORS
ELECTRIC HEATING
SEE ALSO INDUCTION HEATING
RESISTANCE HEATING
SLAG RESISTANCE HEATING
MACHINING OF HIGH STRENGTH MATERIALS AT ELEVATED TEMPERATURES USING ELECTRIC CURRENT HEATING 67-03 M08-65990
OPTIMUM CONDITIONS FOR ELECTRIC ARC HEATING OF COPPER ALLOY INGOT AND CASTING HEADS 67-09 M10-77133
ELECTRIC TEMPER OF SPRING STEEL 67-09 M10-77372
ELECTRIC HEATING ELEMENTS
HIGH-TEMPERATURE HEATERS OF NIOBIUM AND ZIRCONIUM CARBIDES 67-02 M09-61795
THE SERVICE LIFE OF CARBORUNDUM ELECTRIC HEATERS 67-03 M15-65906
CHROMIC-C --ELECTRICAL RESISTANCE ALLOY-- 67-06 M01-71456
THE EP548 ALLOY FOR ELECTRIC FURNACE HEATING ELEMENTS 67-06 M18-70194
HIGH-TEMPERATURE MOLYBDENUM DISILICIDE HEATERS 67-11 M20-81326
ELECTRIC HEATING ELEMENTS, CORROSION
RESISTANCE OF HEATING ELEMENTS TO ATMOSPHERES CONTAINING CARBON 67-08 M18-74973
ELECTRIC HEATING ELEMENTS, HEAT TREATMENT
TEMPERATURE CONTROL IN SILICONIZING ANNEALING FURNACES WITH SILICON CARBIDE HEATERS 67-12 M10-81739
ELECTRIC HEATING ELEMENTS, MANUFACTURING
SINTERING AND TECHNOLOGICAL PROPERTIES OF SILICON CARBIDE HEATERS OF VARIOUS GRAIN SIZE 67-02 M09-60597
ELECTRIC HEATING ELEMENTS, MATERIALS
EFFECT OF ALLOYING ELEMENTS ON ELECTRICAL RESISTANCE OF TANTALUM-NIOBIUM ALLOY 67-02 M15-61732
TOPHET-D --ELECTRICAL RESISTANCE ALLOY-- 67-04 M01-66322
PECULIARITIES OF THE VACUUM-THERMAL METHOD OF PREPARATION AND SOME PROPERTIES OF YTTRIUM AND GADOLINIUM BORIDES 67-04 M09-66266
TANTALUM-BASE ALLOY 67-05 M17-69229
VACUUM-THERMAL PREPARATION OF YTTRIUM AND GADOLINIUM BORIDES, AND SOME OF THEIR PROPERTIES 67-10 M09-78998
ELECTRIC HEATING ELEMENTS, STRUCTURAL MATERIALS
INFLUENCE OF ALLOYING ELEMENTS ON MECHANICAL PROPERTIES AND RECRYSTALLIZATION POINT OF TA-33 PER CENT CB ALLOY 67-10 M17-79142
ELECTRIC INDUCTION FURNACES
SEE ALSO CHANNEL INDUCTION FURNACES
CORELESS INDUCTION FURNACES
LOW FREQUENCY INDUCTION FURNACES
VACUUM INDUCTION FURNACES
STUDY OF THE EFFECT OF FREQUENCY ON MAGNETOHYDRODYNAMIC EFFECTS IN AN INDUCTION CRUCIBLE FURNACE 67-02 M06-58875
DISCUSSION OF THE GENERAL THEORY OF THE WORKING OF HEAT-GENERATING FURNACES 67-02 M15-60733
CHANGES DURING SERVICE IN BASIC REFRACTORIES IN CHANNEL INDUCTION FURNACES MELTING NICKEL 67-04 M05-67845
MELTING OF NODULAR CAST IRON IN INDUCTION FURNACE 67-04 M06-68017
POSSIBLE DENSIFICATION OF DRY QUARTZITE MASS IN THE REFRACTORY LINING OF INDUCTION FURNACES 67-05 M04-69313
THE EFFECTS OF THE REFRACTORY LINING ON METALLURGICAL REACTIONS IN CORELESS INDUCTION FURNACES 67-05 M04-69323

A NEW LARGE-SCALE INSTALLATION FOR THE MELTING AND CASTING OF OFHC COPPER IN A YUGOSLAV COPPER MILL 67-05 M06-69310
MELTING PLANT FOR SPHEROIDAL GRAPHITE IRON 67-06 M06-70023
MELTING FURNACES IN MODERN FOUNDRIES 67-06 M06-70978
INDUCTION MELTING IN THE FOUNDRY 67-06 M06-71598
FURNACES IN USE--RECENT INSTALLATIONS 67-11 M10-81492
RAMMED HIGH-ALUMINA MASSES FOR INDUCTION COPPER-SMELTING FURNACES 67-12 M03-82639

ELECTRIC INDUCTION FURNACES, AUTOMATION
INVESTIGATION OF AN INDUCTION HEATING FURNACE FOR AUTOMATIC FORGING INSTALLATIONS 67-09 M10-77830

ELECTRIC INDUCTION FURNACES, FOUNDRY PRACTICE
EFFECTS OF INDUCTION MELTING ON THE METALLURGY AND CAPACITY OF A NONFERROUS METAL FOUNDRY 67-06 M06-71094

ELECTRIC INDUCTION FURNACES, LINERS
REFRACTORY REQUIREMENTS FOR LARGE INDUCTION FURNACES IN THE FERROUS FOUNDRY 67-08 M05-76167

ELECTRIC IRONS
SEE ELECTRIC APPLIANCES

ELECTRIC LAMPS
SEE INCANDESCENT LAMPS

ELECTRIC LINES
SEE ELECTRIC WIRE
TRANSMISSION LINES

ELECTRIC MAINS
SEE MAINS
POWER CABLES

ELECTRIC MEASURING INSTRUMENTS
SEE COULOMETERS
POTENTIOMETERS /INSTRUMENTS/
RADIATION PYROMETERS
THERMOCOUPLE PYROMETERS

ELECTRIC MOTORS
SEE ALSO D C MOTORS
SERVOMOTORS
NEW TECHNIQUES IN METAL FORMING 67-03 M07-65166
NEW FIGURE OF MERIT FOR CERAMIC PERMANENT MAGNET MATERIAL INTENDED FOR DC MOTOR APPLICATIONS 67-07 M15-73509

ELECTRIC POTENTIAL
IDEAL MOS CURVES FOR SILICON 67-01 M15-57221
ON THE VOLTAGE INDUCED BY AN ELECTRON BEAM IN A BULK SEMICONDUCTOR CRYSTAL 67-02 M16-60513
THE MATTEUCCI EFFECT IN IRON AND NICKEL WIRES 67-03 M15-65721
ELECTRONIC CONDUCTION IN THERMALLY GROWN SILICON DIOXIDE FILMS 67-03 M16-65752
ACOUSTOELECTRIC EFFECT IN SEMICONDUCTING CDS 67-04 M16-66776
GALVANIC PITTING IN METALLIC COATINGS 67-04 M18-66715
CORROSION OF ELECTRODEPOSITED CHROMIUM 67-04 M18-66716
EFFECT OF A SURFACE OXIDE FILM ON THE ELECTROPHYSICAL SURFACE PROPERTIES OF GERMANIUM 67-05 M15-68573
EFFECTS OF PREOXIDATION TREATMENT ON MOS TRANSISTOR CHARACTERISTICS 67-05 M16-69299
ABSORBED SPECIMEN CURRENT ANOMALY OF CU-ZN DIFFUSION COUPLE IN ELECTRON SCANNING MICROSCOPE 67-06 M15-71550
DIRECT ELECTROCHEMICAL DETERMINATION OF THE OXYGEN CONCENTRATION IN LIQUID IRON. PT. 2. EFFECT OF PHOSPHORUS, SULFUR AND CARBON ON THE ACTIVITY OF THE OXYGEN DISSOLVED IN LIQUID IRON 67-07 M04-72719
INVESTIGATION OF THE POTENTIALS OF GA ELECTRODES AND THE POLARIZATION IN THE ELECTROLYTIC DEPOSITION OF GA AS A FUNCTION OF ITS AGGREGATE STATE 67-07 M12-73178
DIRECT ELECTROCHEMICAL DETERMINATION OF THE OXYGEN CONCENTRATION IN LIQUID IRON. PT. 1. INVESTIGATIONS INTO LIQUID PURE IRON 67-07 M19-72704
THE EFFECT OF SULFUR ON THE ACTIVITY OF OXYGEN IN IRON, COBALT AND NICKEL MELTS AT 1600 C 67-08 M14-75659
THERMODYNAMICS OF PBO AND PBO-SIO2 MELTS 67-08 M15-76061
ELECTROKINETIC BEHAVIOR OF ANODIC OXIDE COATING OF ALUMINUM. PT. 1. ZETA POTENTIAL AND DYEING AFFINITY OF ANODIC OXIDE COATING OF ALUMINUM 67-09 M12-76681
EFFECTS OF THE DEFORMATION OF NI-CU SYSTEM ALLOYS ON THEIR THERMAL EMF 67-09 M15-77071
ELECTROCHEMICAL AND ELECTRICAL INVESTIGATIONS IN THE FE-P-O-LIME SYSTEM 67-09 M15-77083
POTENTIAL OF ALUMINUM IN AQUEOUS CHLORIDE SOLUTIONS 67-09 M15-77891
CONTROL OF THE SURFACE POTENTIAL OF GERMANIUM BY MEANS OF A VARIABLE PH ELECTROLYTE CONTAINING HYDROGEN PEROXIDE AND POTASSIUM CHLORIDE 67-09 M15-77897
THERMOELECTRIC PROPERTIES OF VANADIUM 67-10 M15-78343
THERMODYNAMIC PROPERTIES OF INDIUM-TIN-ANTIMONY LIQUID ALLOYS 67-10 M15-78747
ELECTROMOTIVE FORCE OF POLARIZATION AND ACTIVITY OF ALUMINUM IN THE ELECTROLYSIS OF CRYOLITE-ALUMINA MELTS 67-11 M03-81155
DISCREPANCIES IN THE THERMODYNAMICS OF THE TITANIUM-OXYGEN SYSTEM 67-11 M15-80192
STUDY OF CERTAIN THERMODYNAMIC PROPERTIES OF THE PH-HG SYSTEM 67-11 M15-81178

ELECTRIC POTENTIAL, RADIATION EFFECTS
DECREASE OF BUILT-IN VOLTAGE IN TUNNEL DIODES CAUSED BY IRRADIATION 67-05 M16-69294

ELECTRIC POTENTIAL, STRESS EFFECTS
UNIAXIAL STRESS EFFECT OF GE PN JUNCTIONS DOPED WITH COPPER 67-07 M16-73321

ELECTRIC POTENTIAL, TEMPERATURE EFFECTS
DIRECT ELECTROCHEMICAL DETERMINATION OF THE OXYGEN CONTENT OF METAL MELTS. PT. 2. INVESTIGATIONS CARRIED OUT ON SILVER, TIN AND LEAD MELTS 67-09 M19-77190

ELECTRIC POWER
THE SURFACE DAMAGE OF HIGH OUTPUT GALLIUM ARSENIDE LASERS 67-07 M16-72923
ENERGY REQUIREMENTS IN THE ELECTRODEPOSITION OF COPPER 67-08 M03-74782

ELECTRIC POWER GENERATION
SEE ALSO DIRECT POWER GENERATION
NUCLEAR POWER GENERATION
THERMOELECTRIC POWER GENERATION
STAINLESS STEEL EXTRUSION ELIMINATES THERMAL DISTORTION AND CRACKING 67-02 M07-59200
A HIGH-TEMPERATURE STEEL 67-08 M01-74871

ELECTRIC POWER GENERATION, MATERIALS
DEVELOPMENT AND EVALUATION OF MAGNETIC AND ELECTRICAL MATERIALS CAPABLE OF OPERATING IN THE 800 TO 1600 F. TEMPERATURE RANGE 67-03 M15-65901

ELECTRIC POWER PLANTS
SEE ELECTRIC POWER GENERATION

ELECTRIC POWER STATIONS
SEE ELECTRIC POWER GENERATION

ELECTRIC PROPULSION
AN EVALUATION OF SPUTTERING PROCESSES FOR LONG-TERM ELECTRIC PROPULSION SYSTEM TESTING 67-08 M12-75041

ELECTRIC RESISTANCE FURNACES
ELECTRIC RESISTANCE FURNACE FOR REFINING MAGNESIUM 67-06 M03-70144
FURNACE FOR THE PREPARATION OF THE HIGH MELTING POINT METAL SINGLE CRYSTALS 67-11 M14-81514

ELECTRIC RESISTANCE FURNACES, OXIDATION
THE LIFE OF SILICON CARBIDE HEATERS IN ARGON AT HIGH TEMPERATURES 67-07 M18-72615

ELECTRIC RESISTORS
SEE RESISTORS

ELECTRIC SLAG PROCESS
SEE ELECTROSLAG PROCESS

ELECTRIC SPARK MACHINING
SEE SPARK MACHINING

ELECTRIC SPARKS
ELECTRICAL METALWORKING. PT. 3 67-04 M07-68057

ELECTRIC SWITCHES, MATERIALS
CHROMIUM BRONZE AND ITS USE 67-04 M17-67141
SOME REGULARITIES GOVERNING THE CHANGE IN THE PROPERTIES OF CONTACT MATERIALS MANUFACTURED BY POWDER METALLURGY TECHNIQUES 67-10 M09-78999

ELECTRIC SWITCHES, POWDER METALLURGY
MANUFACTURING PROCESS OF POWDERED-METAL ARTICLES 67-05 M09-69058

ELECTRIC SWITCHES, WELDING
PERCUSSION WELDING OF RELAY ELEMENTS 67-03 M11-65054
CAPACITOR DISCHARGE SPOT WELDING OF RELAY ELEMENTS 67-07 M11-73974

ELECTRIC SWITCHGEAR
SEE SWITCHGEAR
ELECTRIC TRANSFORMERS
SEE TRANSFORMERS
ELECTRIC WAVES
SEE ELECTROMAGNETIC WAVES
ELECTRIC WELDING
SEE ALSO ARC SEAM WELDING
ARC SPOT WELDING
ARC WELDING
CARBON ARC WELDING
ELECTRON BEAM WELDING
ELECTROSLAG WELDING
FLASH WELDING
FLUX CORE WIRE WELDING
FOIL SEAM WELDING
GAS METAL ARC WELDING
GAS TUNGSTEN ARC WELDING
INDUCTION WELDING
INERT GAS WELDING
MASH SEAM WELDING
PERCUSSION WELDING
PLASMA ARC WELDING
PRESSURE INDUCTION WELDING
PROJECTION WELDING
PULSATION WELDING
RESISTANCE SEAM WELDING
RESISTANCE SPOT WELDING
RESISTANCE WELDING
SEAM WELDING
SHIELDED ARC WELDING
SHIELDED METAL ARC WELDING
SPOT WELDING
STUD WELDING
SUBMERGED ARC WELDING
UNSHIELDED ARC WELDING
UPSET WELDING
PRESENT AND FUTURE IRON AND STEEL INDUSTRY OF JAPAN 67-02 M11-59961
WELDING OF STEEL STRIP IN THE PRODUCTION OF CORED ELECTRODES 67-02 M11-60017
PARTIAL PROJECTIONS CAUSED BY FILLET WELDING ON THE SURFACE OF HULL PLATING 67-02 M11-60041
T-JOINT WELDING OF REINFORCED STEEL 67-04 M11-66576
DETERMINATION OF THE BENDING MOMENT DURING ROLL FORMING OF SKELP FOR ELECTRICALLY LINE WELDED LARGE-DIAMETER PIPES 67-06 M08-70748
INDICATOR OF THE POSITION OF THE LONGITUDINAL BUTT JOINT OF A PIPE DURING WELDING IN AN ELECTRIC PIPE-WELDED MACHINE 67-06 M11-70736
WELDING AND THE COMMERCIAL VEHICLE BODY REPAIRER 67-06 M11-70858
T WELDS IN REINFORCEMENT STEEL 67-07 M11-73433
TRUE ALL-POSITION ELECTRODES TAKE ONE GIANT STEP 67-09 M11-76639
WELDING METHODS IN THE PRODUCTION OF TUBES AND SHAPES. PT. 2 67-09 M11-77023
THE PHYSICAL LAWS OF ELECTRIC WELDING AND THE UTILIZATION OF MAGNETIC FIELDS. PT. 1 67-09 M11-77106
MAINTENANCE SOLDERING WELDING AND BRAZING 67-09 M11-77764
BURNING-IN OF TIN-BRONZE CASTINGS 67-12 M11-83572
ELECTRIC WELDING MACHINES
SEE ALSO ARC WELDING MACHINES
RESISTANCE WELDING MACHINES
SPOT WELDERS
MANUFACTURE OF WELDED STEEL PIPE 67-06 M07-72139
ELECTRIC WIRE
COPPER CLAD ALUMINUM WIRE--A NEW ELECTRICAL CONDUCTOR MATERIAL 67-04 M20-66132
IMPROVEMENT IN ELECTRIC ALUMINUM WIRE 67-06 M07-70201
STEEL WIRE CLAD WITH COPPER FOR LEADS TO RADIO PARTS 67-07 M20-74149
ELECTRIC WIRE, CORROSION
DEFEATING THE RED PLAGUE 67-10 M18-79428
ELECTRIC WIRE, MECHANICAL PROPERTIES
COMPOSITION AND PROPERTIES OF ALLOYED ALUMINUM WIRE FOR ELECTRIC CONDUCTORS 67-04 M17-68029
ELECTRIC WIRE, STRUCTURAL MATERIALS
AN ALUMINUM-BASE ALLOY FOR CONDUCTORS 67-10 M01-78359
ELECTRIC WIRING
SEE ELECTRIC WIRE
ELECTRICAL CONCENTRATORS
SEE MAGNETIC SEPARATORS
ELECTRICAL CONDUCTANCE
SEE ELECTRICAL RESISTANCE
ELECTRICAL CONDUCTIVITY
SEE RESISTIVITY
ELECTRICAL CONDUITS
SEE ELECTRICAL RACEWAYS
ELECTRICAL DISCHARGE GRINDING
SEE ELECTRIC DISCHARGE GRINDING
ELECTRICAL EQUIPMENT
SEE ELECTRIC EQUIPMENT
ELECTRICAL IMPEDANCE
SEE ELECTRICAL RESISTANCE
SURFACE RESISTANCE
ELECTRICAL MEASUREMENTS
ELECTRICAL CONDUCTIVITY AND THERMOELECTRIC PROPERTIES OF SOLID MANGANESE OXIDES AT HIGH TEMPERATURES 67-02 M15-60727
EFFECT OF TEMPERATURE AND COMPOSITION ON THE PHASES OF THE SYSTEM TANTALUM-CARBON ELECTRICAL CONDUCTIVITY OF THE BETA- AND GAMMA- 67-02 M15-61670
ELECTRICAL PROPERTIES OF PURE BISMUTH AND ITS ALLOYS WITH TIN IN A WIDE TEMPERATURE RANGE 67-04 M15-66016
THE ELECTRICAL RESISTIVITY OF THERMOMETRICALLY PURE PLATINUM BELOW 11 K 67-04 M16-68162
ON THE METHODS OF MEASURING CHANGES OF ELECTRICAL RESISTIVITY 67-04 M16-68163
A THERMODYNAMIC STUDY OF SOLID IRON-GOLD AND COBALT-GOLD ALLOYS BY THE USE OF SOLID OXIDE ELECTROLYTES 67-05 M13-68693
AN AUTOMATIC TECHNIQUE FOR ACCURATE MEASUREMENTS OF SEEBECK COEFFICIENT 67-05 M16-68654
MEASUREMENT OF THE MAGNETORESISTANCE OF P-TYPE SILICON IN STRONG PULSED MAGNETIC FIELDS 67-05 M16-69390
TEMPERATURE DEPENDENCE OF THE HALL COEFFICIENT IN P-PBTE 67-05 M16-69397
TEMPERATURE DEPENDENCE OF THE HALL COEFFICIENT IN N-PBTE 67-05 M16-69398
SOME ELECTRICAL-RESISTIVITY MEASUREMENTS ON CERIUM METALS OF VARIOUS PURITIES 67-06 M15-69930
ELECTRICAL RESISTIVITY OF POLYCRYSTALLINE PRASEODYMIUM BETWEEN 2 AND 325 K 67-06 M15-70799
ELECTRODELESS MEASUREMENT OF RESISTIVITIES OVER A VERY WIDE RANGE 67-06 M15-70834
OBSERVATIONS OF THE BI 3-4 AND BI 4-5 TRANSITIONS BY RESISTIVITY MEASUREMENTS 67-06 M15-71618
CONTACTLESS MEASUREMENT OF RESISTIVITY OF SLICES OF SEMICONDUCTOR MATERIALS 67-06 M16-70551
HIGH-PRESSURE AND HIGH-TEMPERATURE TRANSFORMATIONS OF RARE EARTH MONOCHALCOGENIDES 67-07 M14-72452
RESISTIVITY MEASUREMENTS OF VACUUM-RESIDUAL GASES DURING VACUUM DEPOSITION OF AU AND NI 67-08 M12-75181
MICROSTRUCTURE ASSOCIATED WITH THE PEAK EFFECT --MAXIMUM IN CRITICAL CURRENT DENSITY-- IN SUPERCONDUCTING NIOBIUM 67-08 M13-75784
RESISTIVITY PROFILES AND THICKNESS MEASUREMENTS ON MULTILAYERED SEMICONDUCTOR STRUCTURES BY THE SPREADING RESISTANCE TECHNIQUE 67-08 M15-74720
ELECTRICAL EVALUATION OF SEMICONDUCTOR FILMS 67-08 M19-74718
OPTICAL CONSTANTS OF BETA-PHASE NIAL 67-11 M15-81079
EVAPORATED METALLIC CONTACTS OT CONDUCTING STRONTIUM TITANATE SINGLE CRYSTALS 67-11 M15-81085
COERCIVITY MEASUREMENTS OF COLD ROLLED MO-PERMALLOY BY A-C AND D-C METHODS 67-11 M15-81098
ELECTRICAL MEASUREMENTS FOR TRACE CHARACTERIZATION 67-11 M19-80132
AN ELECTRON BEAM METHOD OF MEASURING RESISTIVITY DISTRIBUTION IN MSEMICONDUCTORS 67-12 M15-82673
ELECTRICAL PHENOMENA
SEE ALTERNATING CURRENT
CONTACT POTENTIALS
DIELECTRIC BREAKDOWN
DIRECT CURRENT
ELECTRIC ARCS
ELECTRIC CURRENT
ELECTRIC FIELDS
ELECTRIC POTENTIAL
ELECTRIC SPARKS

ELECTRODE POTENTIALS
ELECTROSTATIC FIELDS
PLASMA ARCS
ELECTRICAL PRECIPITATORS
SEE ELECTROSTATIC PRECIPITATORS
ELECTRICAL PROPERTIES
SEE ALSO CARRIER DENSITY
CARRIER MOBILITY
DIELECTRIC CONSTANT
DIELECTRIC STRENGTH
DISSIPATION FACTOR
ELECTRON CONDUCTIVITY
ELECTRON DENSITY
ELECTRON MOBILITY
FERROELECTRICITY
HOLE CONDUCTIVITY
HOLE DENSITY
HOLE MOBILITY
MAGNETORESISTIVITY
PHOTOCONDUCTIVITY
PHOTOELECTRIC EFFECTS
PHOTOEMISSIVITY
PHOTOVOLTAIC EFFECT
PIEZOELECTRICITY
RESISTIVITY
SUPERCONDUCTIVITY
SURFACE RESISTIVITY
DEPOSITION OF TANTALUM, TANTALUM OXIDE, AND TANTALUM NITRIDE WITH CONTROLLED ELECTRICAL CHARACTERISTICS 67-01 M12-57107
THE ELECTRONIC STRUCTURE OF HEXAGONAL ZINC SULFIDE 67-01 M16-57954
HIGH-TEMPERATURE ELECTRICAL MATERIALS 67-02 M20-60591
TECHNICAL AND ECONOMIC COMPARISON BETWEEN ALUMINUM ALLOY CONDUCTOR AND ACSR 67-04 M15-68028
TEXTURAL AND ELECTRICAL PROPERTIES OF VACUUM-DEPOSITED GERMANIUM FILMS 67-05 M14-68622
TEXTURE-ELECTRICAL-PROPERTY CORRELATIONS IN ORIENTED SILICON STEEL 67-07 M15-73518
ELECTRICAL AND MAGNETIC PROPERTIES OF SOLID SOLUTIONS OF VANADIUM AND TITANIUM DISILICIDES IN CHROMIUM DISILICIDE 67-09 M15-76916
METALS REFERENCE BOOK. V. 3 67-10 M01-79104
FOUNDATIONS OF CRYSTAL ELECTRONICS 67-10 M16-80002
TRACE CHARACTERIZATION AND THE PROPERTIES OF MATERIALS 67-11 M01-80131
ELECTRICAL AND OPTICAL PROPERTIES OF SEMICONDUCTING COMPOUNDS OF THE A2VB3VI TYPE AND THE CHEMICAL BOND 67-11 M15-80169
THERMOELECTRIC AND THERMOMAGNETIC EFFECTS AND APPLICATIONS 67-12 M01-82986
METALLURGY OF CU FOR ELECTRICAL USE 67-12 M03-82896
ELECTRICAL PROPERTIES, ALLOYING EFFECTS
SOME ELECTRICAL PROPERTIES OF BINARY ALLOYS OF PD WITH ELEMENTS OF THE FIRST LONG PERIOD 67-10 M15-79079
ELECTRONIC PROPERTIES OF SODIUM-DOPED CARBONS P 1621-1624 67-12 M16-83195
ELECTRICAL PROPERTIES, CRYSTAL LATTICES
RELATIONS BETWEEN ELECTRICAL NOISE AND DISLOCATIONS IN SILICON 67-07 M15-72633
ELECTRICAL PROPERTIES, RADIATION EFFECTS
RADIATION DAMAGE IN SOLIDS 67-04 M16-67301
ANNEALING OF PROTON RADIATION DAMAGE IN SILICON SOLAR CELLS 67-05 M16-69093
ELECTRICAL RACEWAYS
AL CONDUITS 67-04 M20-67704
AUTOMATIC CASTING OF MALLEABLE IRON 67-10 M06-79298
PRECISION CASTINGS FOR CONDUIT FITTINGS 67-10 M20-80090
ELECTRICAL RESISTANCE
SEE ALSO SURFACE RESISTANCE
RECOVERY PROCESSES IN NICKEL THIN FILMS BETWEEN 20 AND 300 C 67-01 M15-57579
A CONTACTLESS METHOD FOR MEASURING SPECIFIC RESISTANCE OF SEMICONDUCTOR PLATES AND EPITAXIAL LAYERS 67-03 M15-65075
ELECTRICAL PROPERTIES OF AL2O3-NICKEL METAL MULTILAYER FLAME-SPRAYED COATINGS 67-03 M15-65358
NONLINEAR RESISTANCES 67-03 M16-65724
ELECTRICAL RESISTANCE OF IRON-CARBON MELTS 67-04 M15-66087
EFFECT OF HEAT TREATMENT AT 280 TO 460 C. ON ELECTRICAL RESISTANCE OF 50N PERMALLOY 67-04 M15-66088
ON SOME PARTICULARITIES OF THE CHANGE IN THE ELECTRICAL RESISTIVITY OF COPPER-GOLD ALLOYS NEAR THE CUAU COMPOSITION 67-04 M15-67050
SOME CHARACTERISTICS OF THE ELECTRICAL RESISTIVITY OF NICKEL-CHROMIUM ALLOYS WITH A LOW CONTENT OF CHROMIUM 67-04 M15-67157
ELECTRICAL CONDUCTIVITY OF NICKEL-PHOSPHORUS FOILS 67-05 M15-69337
HIGH-TEMPERATURE STUDY OF PRASEODYMIUM OXIDES BY MEANS OF MEASUREMENTS OF ELECTRICAL CONDUCTIVITY VS PARTIAL EQUILIBRIUM OXYGEN PRESSURE 67-05 M15-69340
CHANGE IN ELECTRICAL RESISTANCE OF STEEL AT QUENCHING 67-05 M15-69643
ELECTRICAL RESISTANCE AND DEFECTS IN CU-AL ALLOYS AT LOW TEMPERATURES 67-05 M15-69648
NUCLEATION OF THE SUPERCONDUCTING PHASE 67-05 M16-69721
PHYSICO-CHEMICAL PROPERTIES OF SLAGS OF THE CAO-AL2O3-MEXAY SYSTEM. PT. 1. 67-06 M15-70274
RECOVERY OF ELECTRICAL RESISTANCE IN NI AND NI-CU ALLOYS AFTER QUENCHING AND DEFORMATION 67-06 M15-72361
CONTACTLESS METHOD FOR MEASURING THE SPECIFIC RESISTANCE OF SEMICONDUCTOR PLATES AND EPITAXIAL LAYERS 67-07 M15-72966
THE INTERRELATIONSHIP OF HYDROGEN DIFFUSION PARAMETERS AND KINETIC COEFFICIENTS IN FE-AL ALLOYS 67-08 M14-75275
ELECTRONIC CONDUCTION PROPERTIES OF DIELECTRIC THIN FILMS 67-08 M15-74717
EFFECT OF DEGREE OF CRYSTAL LATTICE DISTORTION OF METAL ON ITS SUPERCONDUCTIVITY 67-08 M15-75259
DEFECTS IN THE CRYSTAL LATTICE OF COPPER, ROLLED AT LOW TEMPERATURES 67-08 M15-75283
ELECTRICAL RESISTANCE, ALLOYING EFFECTS
INFLUENCE OF SMALL ADDITIONS OF CE, FE, NI AND CO ON MECHANICAL PROPERTIES AND ELECTRICAL CONDUCTIVITY OF ALUMINUM 67-02 M17-59770
INFLUENCE OF ALLOYING ON ELECTRIC CONDUCTIVITY OF CERIUM SULFIDE 67-05 M16-68712
LOW-ALLOY HEAT PROOF COPPER ALLOYS WITH HIGH ELECTRICAL CONDUCTIVITY 67-06 M15-69986
PROPERTIES OF SILVER ALLOYS, CONTAINING SMALL AMOUNTS OF PALLADIUM AND CADMIUM 67-06 M15-69987
EFFECT OF ALLOYING ON THE ELECTROCONDUCTIVITY OF CERIUM SULFIDE 67-12 M16-82688
ELECTRICAL RESISTANCE, STRESS EFFECTS
DYNAMIC EFFECT OF PLASTIC DEFORMATION IN COPPER AND ITS ALLOYS 67-06 M15-70300
INFLUENCE OF PLASTIC DEFORMATION ON THE IDEAL ELECTRICAL AND THERMAL RESISTANCES OF COPPER AND ALUMINIUM 67-06 M15-72259
ELECTRICAL RESISTANCE, TEMPERATURE EFFECTS
GERMANIUM RESISTANCE THERMOMETRY IN THE RANGE 2.1 TO 5.0 K 67-05 M15-69501
ELECTRICAL RESISTANCE OF TI-AL ALLOYS AT 78 TO 373 K 67-08 M15-75280
FUNDAMENTALS OF MAGNETISM IN METALS 67-10 M16-78310
ELECTRICAL RESISTIVITY
SEE RESISTIVITY
ELECTRICAL STEELS, CASTING
ELONGATED NOZZLES FOR CASTING STEEL IN CONTINUOUS CASTING STEEL INSTALLATIONS 67-03 M04-65907
CASTING ELECTRICAL STEEL AND RESULTING EFFECT ON ITS MAGNETIC PROPERTIES 67-04 M06-66336
SECTIONAL NOZZLE-BATCHERS FOR CONTINUOUS CASTING OF ELECTRICAL STEEL 67-08 M04-75594
ELECTRICAL STEELS, CHEMICAL ANALYSIS
CONTROL AND ADJUSTMENT OF SILICON CONTENT IN TRANSFORMER STEELS 67-07 M19-73086
ELECTRICAL STEELS, CRYSTAL GROWTH
STUDY OF THE COMPETITIVE GROWTH OF SECONDARY GRAINS DURING ANNEALING OF TRANSFORMER STEEL UNDER TEMPERATURE GRADIENT CONDITIONS 67-12 M14-82337
ELECTRICAL STEELS, CRYSTAL LATTICES
POLYGONIZATION OF HOT-STRAINED SILICON IRON 67-03 M13-65785
KINETICS OF SECONDARY RECRYSTALLIZATION IN TRANSFORMER STEEL 67-08 M14-74641
STABILIZATION OF SIZE OF MATRIX GRAIN IN TRANSFORMER STEEL THIN STRIP 67-09 M14-77779
SPECIAL FEATURES OF INTERACTION BETWEEN TWIN

CRYSTALS AND OBSTACLES 67-10 M13-78386

ELECTRICAL STEELS, CRYSTAL STRUCTURE
THERMOMAGNETIC TREATMENT OF SILICON IRON SINGLE CRYSTALS AND ITS EFFECT ON DOMAIN STRUCTURE 67-09 M13-77765

ELECTRICAL STEELS, DEOXIDIZING
THE PRODUCTION OF FERROSILICONCALCIUM AND ITS USE FOR KILLING STEEL 67-07 M04-73782
MELTING FERROSILICOCALCIUM AND USING IT FOR DEOXIDIZING STEEL 67-09 M04-76545

ELECTRICAL STEELS, DIFFUSION
DIFFUSION IN A BIMETAL HAVING DIFFERENT CONCENTRATIONS OF SILICON 67-05 M14-68383
USE OF AUTORADIOGRAPHY FOR ANALYSIS OF INTERACTION OF CARBON AND PHOSPHORUS IN STEEL 67-09 M13-77402

ELECTRICAL STEELS, GRAIN GROWTH
PRIMARY RECRYSTALLIZATION IN SILICON IRON WITH DIFFERENT AMOUNTS OF IMPURITIES 67-08 M14-74989

ELECTRICAL STEELS, HEAT TREATMENT
HOW BLACK ANNEALING AFFECTS ORIENTED TRANSFORMER SHEET PRODUCTION 67-01 M10-58167
RAPID INDUCTION HEATING OF STEEL SHEETS 67-02 M10-59682
OPEN-COIL ANNEALING 67-04 M10-66727
A METHOD OF HEAT TREATING TRANSFORMER STEEL 67-06 M10-70347
A METHOD OF HEAT TREATING TRANSFORMER STEEL 67-06 M10-70348
THE APPLICATIONS AND ADVANTAGES OF AIR COILS --OR PNEUMATIC COILS-- FOR A CONTINUOUS AUTOMATIC RECORDING OF THE MAGNETIC VALUES OF SILICON STEEL STRIP 67-07 M10-73809
THE FORMATION OF SECONDARY RECRYSTALLIZATION NUCLEI IN TRANSFORMER STEEL 67-08 M14-75268
EFFECT OF THE METHOD OF RECRYSTALLIZATION ANNEALING USED FOR COILED TRANSFORMER STEEL SHEET ON THE SPECIFIC ELECTRICAL LOSSES 67-09 M10-76711
DECARBURIZING TRANSFORMER STRIP IN STRAIGHTWAY FURNACES 67-10 M10-78437
EFFECT OF CERTAIN PRODUCTION FACTORS ON THE PROPERTIES OF COIL TRANSFORMER STEEL 67-10 M10-78440
DECARBURIZATION OF TRANSFORMER STRIP IN THROUGH FURNACES 67-12 M10-83435
EFFECT OF CERTAIN TECHNOLOGICAL FACTORS ON PROPERTIES OF TRANSFORMER STEEL IN COILS 67-12 M10-83438

ELECTRICAL STEELS, INCLUSIONS
STUDY OF THE CONDITIONS OF ALUMINUM NITRIDE FORMATION IN TRANSFORMER STEEL DURING HEATING 67-05 M13-68556
RESEARCH INTO CONDITIONS UNDER WHICH ALUMINIUM NITRIDES ARE FORMED IN TRANSFORMER STEEL WHEN IT IS HEATED 67-07 M13-72467

ELECTRICAL STEELS, MAGNETIC PROPERTIES
THERMOMAGNETIC TREATMENT OF FERROMAGNETIC MATERIALS IN A ROTATING MAGNETIC FIELD. PT. 1 67-01 M10-58133
COERCIVE FORCE OF PLASTICALLY DEFORMED SILICON IRON CRYSTALS 67-01 M15-58030
EFFECT OF INTERNAL STRESSES AND SHAPE OF FERROMAGNETIC SPECIMENS ON THEIR MAGNETIC STRUCTURE AND MAGNETIC PROPERTIES. PT. 3 67-01 M15-58184
THE EFFECT OF ELASTIC STRESSES ON THE MAGNETIC PROPERTIES OF FERROMAGNETICS. PT. 1 67-02 M15-59675
EFFECT OF PLASTIC DEFORMATION AND LOW-TEMPERATURE ANNEALING ON THE MAGNETOSTRICTION AND COERCIVE FORCE OF SILICON-IRON SINGLE CRYSTALS 67-02 M15-60899
EFFECT OF THERMOMECHANICAL TREATMENT ON THE SPECIFIC LOSSES, COERCIVE FORCE AND MAGNETOSTRICTION OF STEEL E330 67-02 M15-61936
RECOVERY OF MAGNETIC PROPERTIES IN A STRAINED STRIP OF TRANSFORMER STEEL AFTER ANNEALING IN VARIOUS MEDIA 67-04 M15-66495
STUDY OF THE LAW OF APPROXIMATION TO SATURATION OF FE AND FE-SI ALLOYS 67-04 M15-67912
IS 3.25 PER CENT SI ORIENTED CORE STEEL THE ULTIMATE 67-07 M15-73512
SIMULATED DYNAMIC BEHAVIOR OF DOMAINS IN ORIENTED ELECTRICAL STEEL SHEETS 67-07 M15-73513
TEXTURE-ELECTRICAL-PROPERTY CORRELATIONS IN ORIENTED SILICON STEEL 67-07 M15-73518
EFFECT OF SULFUR ON THE HIGH-DENSITY MAGNETIC PROPERTIES OF ORIENTED 3 1/4 PER CENT SILICON STEEL 67-07 M15-73520
MAGNETIZATION REVERSAL --SWITCHING-- LOSSES IN TRANSFORMER SHEET STEEL 67-07 M15-73813
RECRYSTALLIZATION AND TEXTURE FORMATION IN VERY THIN ELECTRICAL STEEL STRIP 67-08 M14-75266
A TEXTURED TRANSFORMER STEEL 67-08 M15-74872
DEPENDENCE OF THE DECREASE OF MAGNETIC PERMEABILITY IN ELECTROTECHNICAL STEEL WITH TIME ON THE CONDITIONS OF HEAT TREATMENT 67-08 M15-74990
MAGNETIC PROPERTIES AND STRUCTURE OF TRANSFORMER STEEL 67-08 M15-74999
NEW GRADES OF A COLD ROLLED ELECTRICAL STEEL 67-09 M15-77637
EFFECT OF STRIP TENSION DURING HEAT TREATMENT IN A CONTINUOUS FURNACE ON THE MAGNETIC PROPERTIES OF TRANSFORMER STEEL 67-09 M15-77638
DECREASING SPECIFIC LOSSES IN TRANSFORMER STEEL BY PRODUCING LOW STRESSES IN THE CRYSTAL LATTICE 67-09 M15-77766
CHANGES IN MAGNETIC PROPERTIES OF ELECTRICAL STEELS IN RELATION TO TEMPERATURE 67-09 M15-77790
GRAIN GROWTH AND CHANGES IN MAGNETIC PROPERTIES DURING THE SECONDARY RECRYSTALLIZATION OF COLD ROLLED TRANSFORMER STEEL 67-10 M14-78972
EFFECTS OF ALUMINUM AND NITROGEN ON THE PROPERTIES OF COLD ROLLED TRANSFORMER STEEL 67-10 M15-78970
REGARDING THE RELATIONSHIP BETWEEN TRANSFORMER STEELMAKING CONDITIONS AND ELECTROMAGNETIC LOSSES 67-10 M15-79861
THE EFFECTS OF PLASTIC BENDING AND TENSILE DEFORMATION, FOLLOWED BY ANNEALING, ON THE SPECIFIC LOSS FIGURES FOR COLD ROLLED TRANSFORMER STEEL 67-10 M17-78971
WEAK-TEXTURED, COLD ROLLED ELECTRICAL STRIP 67-11 M15-80845
NEW GRADES OF COLD ROLLED ELECTROTECHNICAL STEEL 67-11 M15-80925
EFFECT OF ELONGATION OF STRIPS DURING HEAT TREATMENT IN A THROUGH FURNACE ON THE MAGNETIC PROPERTIES OF TRANSFORMER STEEL 67-11 M15-80926
STUDY OF AN 11.3-TON INGOT OF OPENHEARTH TRANSFORMER STEEL 67-12 M15-81864

ELECTRICAL STEELS, MECHANICAL PROPERTIES
PROPERTIES OF STEEL MADE BY DIFFERENT PRODUCTION METHODS 67-02 M17-60283
INTERNAL STRESS FIELDS IN DEFORMED SILICON IRON CRYSTALS 67-04 M15-67047
MECHANICAL PROPERTIES OF SILICON STEEL IN THE 600 TO 800 C. TEMPERATURE RANGE 67-04 M17-66093
THE PROPAGATION OF CRACKS THROUGH GRAIN BOUNDARIES IN POLYCRYSTALLINE 3 PER CENT SILICON-IRON 67-06 M17-70414
ELECTRON MICROPROBE STUDY OF THE EFFECT OF ABRASION OF THE SURFACE OF ALLOY CRYSTALS 67-06 M17-71031
THE NATURE OF HAIRLINE CRACKS IN ARMCO-TYPE STEEL. PT. 1 67-07 M17-73002
INFLUENCE OF THE MICROSTRUCTURE ON THE DUCTILITY OF STEEL WITH 3 PER CENT SI 67-08 M17-74987
ANISOTROPY OF INTERNAL FRICTION IN TRANSFORMER STEEL 67-10 M17-80087
FORMATION AND GROWTH OF MICROCRACKS DURING HYDROGENATION OF STRAINED SILICON IRON 67-11 M17-80596

ELECTRICAL STEELS, MELTING
ALUMINUM IN THE PRODUCTION OF COLD ROLLED TRANSFORMER STEEL 67-09 M04-77639
PRODUCTION OF ELECTRICAL ACID BESSEMER STEEL 67-10 M04-79820
STUDY OF SULFUR REMOVAL IN TRANSFORMER STEELMAKING 67-10 M04-80044
ALUMINIUM IN PRODUCTION OF COLD-ROLLED TRANSFORMER STEEL 67-11 M04-80927
MANGANESE REMOVAL IN THE PRODUCTION OF TRANSFORMER STEEL 67-11 M04-81653

ELECTRICAL STEELS, METALLOGRAPHY
CHANGE IN THE PROFILE OF THERMAL ETCH GROOVES ON THE GRAIN BOUNDARIES IN TRANSFORMER STEEL 67-04 M13-67851
THE DISTRIBUTION OF SULFUR IN TRANSFORMER STEEL INVESTIGATED BY AUTORADIOGRAPHY 67-06 M13-70341
METHODS OF LOCATING DISLOCATIONS IN TRANSFORMER STEEL 67-06 M13-70344

ELECTRICAL STEELS, MICROSTRUCTURE

PLASTIC ANISOTROPY OF GRAIN-ORIENTED SILICON IRON
67-02 M13-61778
EFFECT OF --STRUCTURAL-- CHANGES ON WATT LOSS, DURING RECRYSTALLIZATION ANNEALING OF TRANSFORMER SHEET
67-02 M14-58996
GRAIN ORIENTATION IN SILICON IRON DURING PRIMARY RECRYSTALLIZATION
67-03 M14-65966
CERTAIN PROBLEMS IN REMOVING GASES AND NONMETALLIC OXIDE INCLUSIONS DURING MELTING OF TRANSFORMER STEEL
67-04 M04-66902
VARIATION IN SURFACE ENERGY AS A FUNCTION OF THE CRYSTALLOGRAPHIC ORIENTATION IN SILICON IRON SINGLE CRYSTALS
67-04 M16-67656
AN ULTRASONIC METHOD OF DETERMINING GRAIN ORIENTATION OF TRANSFORMER STEEL
67-05 M13-69611
DISTRIBUTION OF SULFUR IN TRANSFORMER STEEL INVESTIGATED BY AUTORADIOGRAPHY
67-09 M13-76801
NONMETALLIC INCLUSIONS IN COLD ROLLED TRANSFORMER STEEL
67-09 M13-77640
NON-METALLIC INCLUSIONS IN COLD-ROLLED TRANSFORMER STEEL
67-11 M13-80928
DEFORMATIONS DURING INHIBITION OF TWINS BY BARRIERS
67-11 M13-81166

ELECTRICAL STEELS, NONDESTRUCTIVE TESTING
METHOD FOR MEASURING ROTATIONAL CORE LOSSES IN SILICON-IRON SHEETS
67-04 M19-67423

ELECTRICAL STEELS, OXIDATION
INTERNAL OXIDATION OF 3 PER CENT SI STEEL
67-04 M18-67284

ELECTRICAL STEELS, OXYGEN STEEL MAKING
PRODUCTION OF TRANSFORMER STEEL BY THE OXYGEN-CONVERSION METHOD
67-05 M04-69508

ELECTRICAL STEELS, PHASES /STATE OF MATTER/
DETERMINING THE TITANIUM COMPOUNDS IN TRANSFORMER STEEL
67-10 M14-78956

ELECTRICAL STEELS, PHYSICAL PROPERTIES
INFLUENCE OF THE CARBIDE PHASE ON THE PROPERTIES OF TRANSFORMER STEEL
67-08 M15-74988

ELECTRICAL STEELS, REACTIONS /CHEMICAL/
HIGH-TEMPERATURE OXIDATION OF HOT ROLLED ELECTRIC STEELS. PT. 1. ELECTRICAL STEEL
67-08 M18-75260

ELECTRICAL STEELS, RECRYSTALLIZATION /METALLURGICAL/
FORMATION OF RECRYSTALLIZATION NUCLEI IN TRANSFORMER STEEL
67-05 M14-68853
EFFECT OF PREANNEALING ON SECONDARY RECRYSTALLIZATION OF TRANSFORMER STEEL
67-09 M14-77282
EFFECT OF THICKNESS OF TRANSFORMER STEEL STRIP ON THE GROWTH OF SECONDARY GRAINS
67-09 M14-77777

ELECTRICAL STEELS, RECRYSTALLIZATION /METALLURGICAL/,
EFFECT OF PREANNEALING ON THE BEGINNING OF SECONDARY RECRYSTALLIZATION IN TRANSFORMER STEEL
67-08 M14-74337

ELECTRICAL STEELS, REFINING
NONMETALLIC INCLUSIONS AND PROCESSES OF ELIMINATION FROM MOLTEN STEEL
67-02 M04-60795
INFLUENCE OF DEOXIDATION METHOD ON HAIRLINE CRACKING OF KILLED LOW CARBON ARMCO-TYPE ELECTRICAL STEEL
67-02 M04-61210
VACUUM REFINING LARGE AMOUNTS OF TRANSFORMER STEEL
67-03 M04-65958
REMOVING AND PURIFYING GASES FROM ELECTRIC STEELMAKING FURNACES
67-04 M04-68188

ELECTRICAL STEELS, RESIDUAL STRESS
INVESTIGATIONS ON THE FORMATION OF INTERNAL STRESSES FOLLOWING UNIAXIAL PLASTIC TENSILE DEFORMATION OF SILICON ALLOY STEEL
67-06 M17-71866

ELECTRICAL STEELS, ROLLING
COLD ROLLING AND MAGNETIC PROPERTIES OF 6.5 PER CENT SILICON-IRON ALLOYS
67-01 M17-58324
DEGREE OF STRESSED STATE AND CHANGE IN EXTERNAL CONTACT FRICTION IN COLD ROLLING
67-02 M07-61214
TEXTURE OF HOT ROLLED BAND OF SILICON IRON
67-05 M07-68473
COLD ROLLING OF STEEL SHEET
67-10 M07-78391
INCREASING THE LIFE OF THE WORKING ROLLS OF COLD ROLLING MILLS
67-12 M07-81870

ELECTRICAL STEELS, SINGLE CRYSTALS
DRIVING FORCES OF SECONDARY RECRYSTALLIZATION
67-08 M14-75267

ELECTRICAL STEELS, STAMPING
SEMI-AUTOMATIC LINE FOR STAMPING AND ASSEMBLING ELECTRIC MOTOR ROTOR AND STATOR PLATES
67-02 M08-59407
EXPERIENCE WITH CARBIDE CUTTING TOOLS IN THE PROCESSING OF MAGNETIC CORE SHEETS
67-03 M08-65712

ELECTRICAL STEELS, STEEL MAKING
MELTING OF ELECTRICAL STEELS IN BASIC OXYGEN CONVERTERS
67-01 M04-57695
OPERATION OF CONVERTERS WITH TOP OXYGEN BLAST USING MAGNESIAL SLAGS
67-02 M04-61865
OXYGEN-LANCED CONVERTERS RUN WITH MAGNESIUM SLAGS
67-04 M04-67684
PRODUCTION OF OXYGEN CONVERTER METAL FOR THE MANUFACTURE OF LOW-TEXTURED ELECTRICAL STEEL
67-05 M04-68321
METAL SUITABLE FOR LITTLE-TEXTURED ELECTRIC STEEL MELTED IN OXYGEN BLOWN CONVERTERS
67-07 M04-72849

ELECTRICAL STEELS, SURFACE PROPERTIES
DETERMINING THE SURFACE ENERGY OF SILICON IRON BY THE NEUTRAL DROP METHOD
67-02 M15-60070
DEVELOPMENT OF RECRYSTALLIZATION TEXTURES IN SILICON IRON AFTER LOW AND MEDIUM DEFORMATIONS
67-04 M14-67614

ELECTRICAL STEELS, WELDING
A METHOD OF WELDING SILICON ELECTRIC STEEL STRIPS
67-02 M11-61041

ELECTRO CLEANING
SEE ELECTROCHEMICAL CLEANING

ELECTRO COATINGS
SEE ALSO ANODIC COATINGS
DUPLEX ELECTROPLATES
ELECTROPHORETIC PLATES
ELECTROPLATES
THE STRUCTURE OF AN ELECTRODEPOSITED COPPER-TIN ALLOY
67-04 M13-67098
REVIEW OF DEPOSITED METALLIC FILMS FOR COMPUTER APPLICATION
67-06 M12-71380
INVESTIGATION OF REFLECTIVITY AND STRUCTURE OF ELECTRODEPOSITED NICKEL DURING ELECTROLYSIS
67-10 M12-79940

ELECTRO COATINGS, CHEMICAL ANALYSIS
THICKNESS DEPENDENCE OF THE COMPOSITION IN ELECTROPLATED NI-FE CYLINDRICAL FILMS
67-07 M12-73594

ELECTRO COATINGS, CORROSION
DEVELOPMENT OF ACCELERATED CORROSION TESTS FOR ELECTROPLATED COATINGS
67-06 M18-71382
A SYSTEMATIC INVESTIGATION OF THE POSSIBILITY OF PREVENTING THE STRESS CORROSION OF BRASS BY ELECTROLYTIC COATING. PT. 2. DISCUSSION AND EVALUATION OF EXPERIMENTAL RESULTS
67-08 M18-75669

ELECTRO COATINGS, MAGNETIC PROPERTIES
EPITAXIAL INFLUENCE OF THE SUBSTRATES ON THE ANISOTROPY IN THIN ELECTRODEPOSITED NI-FE CYLINDRICAL FILMS
67-02 M15-61529
MAGNETIC PROPERTIES AND ANNEALING BEHAVIOR OF ELECTRODEPOSITED NIFES THIN FILMS
67-07 M15-73596
ZERO MAGNETOSTRICTION COMPOSITION OF NIFE FILMS
67-07 M15-73598

ELECTRO COATINGS, MECHANICAL PROPERTIES
HIGH HARDNESS OF ELECTROLYTIC IRON RESIDUES
67-04 M17-67840
ELECTRODEPOSITED COMPOSITE COATINGS FOR WEAR RESISTANCE
67-07 M12-73161
INTERNAL STRESS IN ELECTRODEPOSITS
67-07 M17-73626

ELECTRO COATINGS, MICROSTRUCTURE
THE STRUCTURE OF ELECTRODEPOSITS AND CATALYSTS EXAMINED BY X-RAY DIFFRACTION TECHNIQUES
67-07 M13-74220

ELECTRO COATINGS, X RAY ANALYSIS
X-RAY STUDY OF SOME THIN NICKEL ELECTRODEPOSITS
67-09 M13-78135

ELECTRO DISCHARGE GRINDING
SEE ELECTRIC DISCHARGE GRINDING

ELECTRO TIN PLATING
SEE ELECTROPLATING
TIN PLATING

ELECTROANALYSIS
SEE ELECTROLYTIC ANALYSIS

ELECTROBRIGHTENING
SEE ELECTROPOLISHING

ELECTROCERAMICS
SEE CERAMICS

ELECTROCHEMICAL CLEANING
SEE ALSO ANODIC CLEANING
THE IMPORTANCE OF ELECTROLYTIC CLEANING IN SURFACE

ELECTROCHEMICAL CLEANING
TREATMENTS 67-02 M12-62300
THE CLEANING AND DEGRAPHITIZATION OF CAST IRONS 67-03 M12-65454
CHEMICAL PREPARATION OF ALUMINUM FOR CHEMICAL, ELECTROCHEMICAL BRIGHTENING AND ANODIC COATING 67-04 M12-67787
DESCALE METAL PARTS FASTER WITH MOLTEN SALT BATHS 67-09 M12-77700
A DISCUSSION OF ELECTROCHEMICAL DEBURRING 67-12 M08-82954
ELECTROCHEMICAL DEBURRING
SEE DEBURRING
ELECTROCHEMICAL MACHINING
ELECTROCHEMICAL DRILLING
SEE DRILLING
ELECTROCHEMICAL MACHINING
ELECTROCHEMICAL MACHINING
EFFECTS OF ECMR ON MECHANICAL PROPERTIES OF METAL 67-01 M08-58686
USE OF ELECTROMACHINING OPERATIONS IN INDUSTRIAL PRODUCTION. PT. 2. APPLICATIONS 67-01 M08-58718
600 PARTS AN HOUR WITH ECM 67-02 M08-61129
ECM TAILORED FOR PRECISION 67-03 M08-65039
WHERE TO USE EDM AND ECM TO BOOST YOUR SHOP PROFITS 67-03 M08-65398
NINE METHODS FOR DIFFICULT-TO-IMPOSSIBLE JOBS 67-03 M08-65399
ELECTROCHEMICAL AND ELECTRODISCHARGE METAL WORKING 67-03 M08-65733
ELECTROCHEMICAL MACHINING--PREDICTION AND CORRELATION OF PROCESS VARIABLES 67-03 M08-65941
ELECTROCHEMICAL MACHINING RATES 67-04 M08-66384
ELECTROCHEMICAL DEBURRING--BAD NEWS FOR TOUGH BURRS 67-04 M08-66580
ELECTROCHEMICAL MACHINING--SOME FURTHER STUDIES OF PROCESS VARIABLES 67-04 M08-67400
NEWER TECHNIQUES IN THE MACHINING OF METAL COMPONENTS 67-04 M08-67907
NEW ELECTROLYTE IMPROVES ECM PRECISION 67-05 M08-68304
THE MACHINE TOOL, AND SPEEDS AND FEEDS 67-05 M08-68508
ELECTROLYTIC SLICING OF GERMANIUM.. CHARACTERISTICS OF THE --111--, AND --100-- N- AND P- TYPE SURFACES 67-05 M08-68780
STUDY ON ELECTROLYTIC MACHINING PROCESS. PT. 7. THE EFFECTS OF THE CHANGE OF WORK MATERIAL ON THE SURFACE FINISH OF PRODUCTS MACHINED BY DIRECT CURRENT 67-05 M08-68903
STUDY ON ELECTROLYTIC MACHINING PROCESS. PT. 9. EFFECT OF INHIBITORS IN SODIUM CHLORIDE SOLUTION ON THE SURFACE FINISH OF WORK MACHINED BY DIRECT CURRENT 67-05 M08-69281
SIZING FORGINGS WITH ECM 67-06 M08-71932
ELECTROCHEMICAL MACHINING 67-06 M08-72011
TOOL CORRECTIONS AND ELECTROLYTE APPLICATIONS IN ELECTROCHEMICAL MACHINING 67-07 M08-72428
ECM WORKS ON TURBINE BLADES 67-07 M08-72623
A NEW ELECTROLYTE FOR ELECTROCHEMICAL MACHINING 67-07 M08-72795
ECM, AND THE SHAPE OF THINGS TO COME 67-07 M08-72799
ECM BECOMES PREDICTABLE 67-07 M08-72929
LIQUID STREAMS DRILL HOLES IN TOUGH METALS 67-07 M08-73308
ECDM A REVOLUTION IN GRINDING TECHNIQUE 67-07 M08-74102
ECDM--A NEW DIMENSION IN GRINDING 67-07 M08-74258
ACCURACY OF ELECTROLYTIC MACHINING 67-08 M08-75573
ELECTROCHEMICAL MILLING SIZES FORGINGS 67-08 M08-75922
NOW--GRAPHITE-WHEEL ELECTROLYTIC GRINDING 67-09 M08-77492
ECM--ITS INCREASING SIGNIFICANCE AS A MANUFACTURING PROCESS 67-09 M08-77901
THE PRESENT STATE OF THE ART OF ECM AND ITS LOGICAL DEVELOPMENT 67-09 M08-77902
IS ECM USEFUL FOR EVERYDAY MATERIALS 67-09 M08-77903
ELECTROCHEMICAL MACHINING TITANIUM ALLOY WAFFLE-GRID PANELS 67-09 M08-77905
DEVELOPMENT OF ECM PROTOTYPE EQUIPMENT FOR GUN TUBE MANUFACTURE 67-09 M08-77906
A NEW ELECTROLYTE FOR ELECTROCHEMICAL MACHINING. PT. 1. DEVELOPMENTAL STUDIES 67-09 M08-77907
A NEW ELECTROLYTE FOR ELECTROCHEMICAL MACHINING. PT. 2. NATURE OF THE ELECTROLYTE 67-09 M08-77908
SURFACE CONFIGURATION AND DETERMINATION OF OPTIMUM WORKING CONDITIONS IN ELECTROCHEMICAL MACHINING 67-10 M08-78659
THE ELECTROCHEMICAL MACHINING OF TUNGSTEN AND MOLYBDENUM CARBIDES 67-10 M08-78660
ELECTROCHEMICAL MACHINING AIRFOIL CONTOURS OF TURBINE BLADES 67-10 M08-79511
UNWANTED SPARKS IN ECM-THEIR CAUSES AND CURES 67-10 M08-79512
NEW NONCONVENTIONAL MACHINING PROCESS 67-10 M08-79514
THE PRECISION WORKING OF CARBIDE CUTTING TOOLS BY ELECTROEROSION 67-10 M08-79955
THE ELYSIR METHOD--ELECTROCHEMICAL MACHINING 67-10 M08-79959
A NEW ELECTROLYTE FOR ELECTROCHEMICAL MACHINING. PT. 1. DEVELOPMENTAL STUDIES 67-11 M08-80828
A NEW ELECTROLYTE FOR ELECTROCHEMICAL MACHINING. PT. 2. NATURE OF THE ELECTROLYTE 67-11 M08-80829
ELECTROCHEMICAL MACHINING OF IRREGULAR HARD ALLOY TOOLS 67-12 M08-81906
ELECTROCHEMICAL GRINDING OF HARD METALS 67-12 M08-82774
BASICS AND DEVELOPMENT IN ELECTROCHEMICAL MACHINING 67-12 M08-82777
A MATHEMATICAL ANALYSIS OF ELECTROCHEMICAL MACHINING PHENOMENA 67-12 M08-82910
ECM MACHINABILITY DATA & RATINGS 67-12 M08-82911
ELECTROCHEMICAL DISCHARGE MACHINING 67-12 M08-82944
A DISCUSSION OF ELECTROCHEMICAL DEBURRING 67-12 M08-82954
STUDY ON ELECTROLYTIC MACHINING PROCESS. PT. 11. EFFECT OF INHIBITOR IN SODIUM CHLORIDE SOLUTION ON THE SURFACE FINISH OF WORK MACHINED BY A SINGLE-PHASE HALF-WAVE RECTIFICATION CURRENT 67-12 M08-83224
ELECTROLYTICALLY ASSISTED MACHINING OF HARD-ALLOY DIES FOR THE MANUFACTURE OF PIPES 67-12 M08-83411
ELECTROCHEMICAL MACHINING, AUTOMATION
HOW ECM CAN HELP SOLVE MACHINING PROBLEMS 67-08 M08-74652
ELECTRONIC CONTROLS FOR USE WITH ECM MACHINING 67-09 M08-77904
ELECTROCHEMICAL MACHINING, CORROSION EFFECTS
STUDY ON ELECTROLYTIC MACHINING PROCESS. PT. 12. CORROSION OF MILD STEEL IN SODIUM CHLORIDE SOLUTION 67-12 M18-83225
ELECTROCHEMICAL POLISHING
SEE ELECTROPOLISHING
ELECTROCHEMISTRY
THE EFFECT OF ELECTROCHEMICAL CONDITIONS ON THE FATIGUE STRENGTH OF PLAIN CARBON STEEL 67-01 M17-58339
EFFECT OF ALLOYING ADDITIONS OF SILVER AND PALLADIUM ON THE CORROSION AND ELECTROCHEMICAL BEHAVIOR OF STAINLESS STEELS 67-01 M18-57640
INVESTIGATION OF THE CORROSION RESISTANCE AND ELECTROCHEMICAL AND MECHANICAL PROPERTIES OF ALLOYS OF THE TITANIUM-NIOBIUM SYSTEM 67-01 M18-57641
PROBLEM OF CORROSION RESISTANCE OF STAINLESS STEELS IN SOLUTIONS OF NITRIC ACID 67-01 M18-57642
INVESTIGATION OF THE CORROSION RESISTANCE AND THE ELECTROCHEMICAL AND MECHANICAL PROPERTIES OF ALLOYS OF THE NIOBIUM-TITANIUM SYSTEM 67-01 M18-57643
EFFECT OF THE SURFACE STRUCTURE ON THE ELECTROCHEMICAL BEHAVIORS OF ELECTRODEPOSITED NICKEL 67-01 M18-58740
SOME FEATURES OF SLIME FORMATION DURING ELECTROLYTIC REFINEMENT OF CU AND NI 67-02 M03-60561
CONTRIBUTION TO THE THEORY OF ELECTROCHEMICAL IMPEDANCES. APPLICATION TO A CASE OF ANODIC POLISHING 67-02 M12-59419
ELECTROCHEMISTRY OF SURFACE OXIDES 67-02 M15-59449
INVESTIGATION OF THE CORROSION AND ELECTROCHEMICAL BEHAVIOR OF TITANIUM AND ITS ALLOYS IN SOLUTIONS OF PERCHLORIC ACID 67-02 M18-59787
ELECTROCHEMICAL BEHAVIOR OF CU-ZN ALLOYS IN NACL

SOLUTIONS 67-02 M18-59986
STUDY OF THE ELECTROCHEMICAL PROPERTIES OF TL 67-05 M03-68968
PLATINUM METAL ALLOYS IN ELECTROCATALYSIS. A FURTHER EVALUATION OF RELATIVE ACTIVITIES 67-05 M15-69288
PLATINUM METAL ALLOYS IN ELECTROCATALYSIS 67-05 M15-69717
THE ANODIC POLARIZATION BEHAVIOR OF METALS IN HYDROGEN FLUORIDE 67-05 M18-69705
CORROSION-RESISTANT ALLOYS IN CHLORIDE SOLUTIONS--MATERIALS FOR SURGICAL IMPLANTS 67-06 M18-70694
TECHNOLOGY OF ELECTROLYTIC REDUCTION OF ALUMINA BY THE HALL-HEROULT PROCESS. PT. 3. THE ANODE REACTION DURING ELECTROLYTIC DECOMPOSITION OF THE ALUMINA 67-07 M08-73609
ELECTROCHEMICAL STUDIES IN MOLTEN LI2CO3-NA2CO3 67-07 M14-73454
THE ELECTROCHEMICAL PARAMETERS OF STAINLESS STEEL PASSIVATION BY SOME REVERSIBLE REDOX-SYSTEMS 67-07 M18-73700
ELECTROCHEMICAL CORROSION IN HIGH-PRESSURE TECHNOLOGY 67-07 M18-73727
DIRECT ELECTROCHEMICAL DETERMINATION OF THE OXYGEN CONTENT OF LIQUID METALS 67-07 M19-72703
DIRECT ELECTROCHEMICAL DETERMINATION OF THE OXYGEN CONCENTRATION IN LIQUID IRON. PT. 1. INVESTIGATIONS INTO LIQUID PURE IRON 67-07 M19-72704
INFLUENCE OF MAGNETIC TRANSFORMATION ON ELECTROCHEMICAL BEHAVIOR OF NI-MO ALLOYS 67-08 M14-74790
STUDY BY ELECTROCHEMICAL POLARIZATION OF ALUMINUM IN DEAERATED SODIUM CHLORIDE SOLUTIONS 67-08 M14-74791
THERMODYNAMIC-KINETIC DATA ON THE RATE OF ELECTRODE REACTIONS ON THE IRON/ACID SOLUTION SYSTEM 67-08 M14-75064
ELECTROCHEMICAL NATURE OF SILICON TRANSFER BETWEEN MOLTEN AG-SI ALLOY AND CAO-B2O3-SIO2 SLAG 67-08 M14-75565
MIGRATION OF SILVER 67-08 M14-75638
THE ADSORPTION KINETICS OF HYDROGEN IN SUSPENSIONS OF METALLIC CATALYSTS. PT. 2 67-08 M14-75641
STUDY OF THE SULFIDE STRESS-CORROSION CRACKING OF HIGH STRENGTH STEEL. PT. 2. ELECTROCHEMICAL BEHAVIOR OF STEELS IN HYDROGEN SULFIDE AQUEOUS SOLUTION 67-08 M18-74678
CORROSION RESISTANCE OF TITANIUM IN THE CHEMICAL INDUSTRY 67-08 M18-76295
ELECTROCHEMICAL AND ELECTRICAL INVESTIGATIONS IN THE FE-P-O-LIME SYSTEM 67-09 M15-77083
ANODIC BEHAVIOR OF AISI 316 STAINLESS STEEL IN A HCLO4-HCL SOLUTION 67-09 M18-76489
PASSIVATION AND CORROSION OF STAINLESS STEELS 67-09 M18-76491
ON THE PASSIVITY OF IRON-CHROMIUM ALLOYS. PT. 1. REVERSIBLE PRIMARY PASSIVATION AND SECONDARY FILM FORMATION 67-09 M18-76621
STRESS CORROSION CRACKING OF TITANIUM ALLOYS. PT. 1. TI..8-1-1 ALLOY IN AQUEOUS SOLUTIONS 67-09 M18-76623
THE EXAMINATION OF CORROSION PRODUCTS AND PROCESSES. PT. 2. POTENTIOSTATS 67-09 M18-76634
EVALUATION OF THE CONCENTRATION CHANGES NEAR THE ELECTRODES IN ELECTROLYSIS WITH NATURAL CONVECTION 67-10 M03-79945
ELECTROCHEMICAL PROPERTIES OF A NICKEL DSK ELECTRODE 67-10 M15-78483
ELECTROCHEMICAL INVESTIGATIONS OF METALLURGICAL REACTIONS BY MEANS OF SOLID OXIDES AND PHOSPHATES AS ELECTROLYTES 67-10 M15-79058
THE KINETICS OF PROPANE ADSORPTION ON PLATINUM IN HYDROFLUORIC ACID 67-10 M15-79961
ELECTROCHEMICAL AND CHEMICAL CORROSION TESTING OF 13 PER CENT CR CAST STEEL IN CHLORIDE CONTAINING MEDIA 67-10 M18-78686
THE CORRECT TREATMENT OF THE SURFACE OF ZINC SPECIMENS IN CORROSION INVESTIGATIONS 67-10 M18-78917
GALVANIC CORROSION CHARACTERISTICS OF ALUMINUM ALLOYED WITH GROUP 4 METALS 67-10 M18-79962
LARGE-AREA PLANAR AND NONPLANAR ALUMINUM OXIDE FILMS 67-11 M12-80830
CRYSTALLOGRAPHIC CHANGES ENCOUNTERED IN THE PROCESSING OF POSITIVE LEAD-ACID BATTERY ACTIVE MATERIAL 67-11 M15-80826
DISSOLUTION OF MANGANESE IN ACID ELECTROLYTES 67-11 M15-81280
CONSIDERATIONS AND EXPERIMENTS FOR A CRITICAL EVALUATION OF THE PT-COATED TI ANODES 67-11 M18-80804
TRACE CHARACTERIZATION--CHEMICAL AND PHYSICAL 67-11 M19-80130
TRACE CHARACTERIZATION BY ELECTROCHEMICAL METHODS 67-11 M19-80133
MAGNETOCHEMICAL STUDY OF THE REDUCTION OF GAMMA MNO2 67-12 M14-81813
SOME FACTORS IN THE THERMODYNAMIC PROPERTIES OF LIQUID ALLOYS 67-12 M15-82670

ELECTROCLADDING
NEW ARMOR FOR PLANT EQUIPMENT 67-09 M12-77567

ELECTROCOATING
SEE ELECTROPLATING

ELECTRODE POTENTIALS
MEASUREMENTS OF OXIDATION-REDUCTION RATE OF IRON AND OF OXYGEN PRESSURE IN OXIDE MELTS 67-02 M04-59152
A STUDY OF THE ELECTRODE POTENTIAL OF NICKEL IN ACCELERATED CORROSION TEST MEDIA 67-05 M18-68817
TECHNOLOGY OF ELECTROLYTIC REDUCTION OF ALUMINA BY THE HALL-HEROULT PROCESS. PT. 4. CHEMICAL PROCESSES ASSOCIATED WITH THE ANODE EFFECT 67-07 M03-73610
THE ELECTROCHEMICAL PARAMETERS OF STAINLESS STEEL PASSIVATION BY SOME REVERSIBLE REDOX-SYSTEMS 67-07 M18-73700
ALUMINUM ALLOYS AS ANODE MATERIAL 67-08 M15-75946
ANODIC DISSOLUTION OF SILVER SINGLE CRYSTAL FACES --111--, --100-- AND --110-- AND POLYCRYSTALLINE SILVER IN ARGENTOCYANIDE BATH 67-09 M12-78275
INFLUENCE OF LOWER CHLORIDES OF TITANIUM ON THE ELECTRODE POTENTIALS OF CERTAIN METALS IN MOLTEN SALTS 67-09 M15-76510
THE PRODUCTION AND BREAKDOWN OF THE PASSIVITY OF METALS 67-09 M18-76646
INFLUENCE OF WATER AND THE NATURE OF THE ELECTROLYTE ON THE ANODIC ACTIVATION OF TITANIUM IN METHANOL SOLUTIONS 67-09 M18-77093
STABILITY OF THE OXIDE FILM ON METALS IN RELATION TO INHIBITION OF CORROSION. PT. 1. MILD STEEL IN PRESENCE OF AGGRESSIVE ANIONS 67-09 M18-77485
ANODIC BEHAVIOR OF COPPER ELECTRODE IN NACL AQUEOUS SOLUTION 67-09 M18-77876
FORMATION OF ANODIC FILM ON COPPER IN 3 PER CENT NACL AQUEOUS SOLUTION 67-09 M18-77877
ANODIC BEHAVIOR OF MANGANESE PHOSPHIDE --METAL BYPRODUCT--IN CHLORIDIC ELECTROLYTE 67-11 M03-80443
ELECTROCHEMICAL PROPERTIES AND CHEMICAL PASSIVITY OF ETCH-RESISTANT SURFACE FILMS ON STEEL 67-12 M18-82185

ELECTRODEPOSITION
SEE ALSO ARC DEPOSITION
BLACK PLATING
BRIGHT PLATING
BRUSH PLATING
CEM PROCESS
DUPLEX PLATING
ELECTROCLADDING
ELECTROPHORETIC DEPOSITION
ELECTROPLATING
FLASH PLATING
PLASMA ARC SURFACING
SPARK DEPOSITION
ULTRASONIC PLATING
VIBRO ARC DEPOSITION
ALUMINUM TAKES TO ELECTROFORMING 67-01 M12-57437
COHERENT COATINGS OF REFRACTORY METALS 67-01 M12-57539
THE ELECTRIC-SPARK DEPOSITION OF CONTACT METALS ON STATIONARY HEAVY-CURRENT CONTACTS 67-01 M12-58229
PRECIOUS METAL PLATING BATHS AND THEIR PRACTICAL APPLICATIONS 67-01 M12-58303
ELECTRODEPOSITION OF IRON FROM SULFAMATE BATHS. PT. 2. ADDITION OF AMMONIUM BIFLUORIDE 67-01 M12-58395
NEW PROCESS WITH AN ANCIENT METAL 67-01 M12-58528
STUDIES ON ELECTRODEPOSITION OF COPPER. PT. 1.

FARADAIC IMPEDANCE IN THE VICINITY OF THE EQUILIBRIUM POTENTIAL 67-01 M12-58546
THE INTIIAL STAGE OF ELECTRODEPOSITION OF TUNGSTEN ALLOYS BY USING RADIOISOTOPE W185. PT. 5. STUDIES OF ELECTRODEPOSITION OF TUNGSTEN ALLOYS 67-01 M12-58614
ELECTROLYTIC POLARIZATION ON ELECTRODEPOSITION OF TUNGSTEN ALLOYS. PT. 4. STUDIES OF ELECTRODEPOSITION OF TUNGSTEN ALLOYS 67-01 M12-58618
CHEMICALLY REACTIVE CRYSTAL DEFECTS IN ELECTRODEPOSITED NICKEL 67-01 M13-58235
X-RAY STUDY OF SOME THIN NICKEL ELECTRODEPOSITS 67-01 M14-57493
ELECTROCHEMICAL MANUFACTURING OF COPPER FOIL 67-02 M03-59199
SOME REACTIONS ON THE INSOLUBLE LEAD --PB-- ANODE DURING ELECTRODEPOSITION OF ZINC 67-02 M03-61277
SOME APPLICATIONS OF ELECTROFORMING 67-02 M08-61563
ELECTRODEPOSITION OF GOLD 67-02 M12-58907
ELECTRODEPOSITED ORGANIC COATINGS. PT. 1 67-02 M12-59040
EOS PROBES ELECTRODEPOSITED COMPOSITE STRUCTURES MARKET 67-02 M12-59482
ELECTRODEPOSITION OF IRON FROM SULFAMATE BATHS CONTAINING UREA AND BORIC ACID AS ADDITIVES 67-02 M12-60281
THE USE OF A NUMBER OF METHODS OF DEPOSITING SURFACE LAYERS IN RECONDITIONING MACHINE PARTS 67-02 M12-61062
IRON-NICKEL ALLOY PLATING 67-02 M12-61131
SCIENCE FOR ELECTROPLATERS. PT. 3. RHODIUM BATHS 67-02 M12-61132
SOME PROBLEMS IN ELECTRODEPOSITION 67-02 M14-59447
ELECTRODEPOSITION OF COPPER ON COPPER SINGLE CRYSTALS --100--, --110-- AND --111-- FROM ACID COPPER SULFATE BATH 67-02 M14-60280
SURFACE ROUGHNESS EFFECTS IN ELECTRODEPOSITION OF COPPER IN THE LIMITING CURRENT RANGE 67-03 M03-65424
THIN BOOSTER WALLS YIELD PAYLOAD HIKE 67-03 M08-65116
SOME EXPERIENCES IN COPPER ELECTROFORMING OF WAVE GUIDES 67-03 M08-65418
SCIENCE FOR ELECTROPLATERS. PT. 112. PALLADIUM 67-03 M12-65044
THE ELECTROCHEMICAL DEPOSITION OF POLYMERIZATION PRODUCTS ON METAL 67-03 M12-65193
EFFECT OF SELENIOUS ACID ON THE ELECTRODEPOSITION OF MANGANESE 67-03 M12-65658
PERFORATED ZINC SHEETS BY ELECTROFORMING 67-03 M12-65679
FIBRE-REINFORCED METALS BY ELECTROFORMING 67-04 M08-66153
THE ACTION OF FLUXES THAT ASSIST TINNING AND SOLDERING 67-04 M11-67761
ELECTRODEPOSITION OF METALS IN ULTRASONIC FIELDS 67-04 M12-66279
ELECTROCOATING COMES OF AGE 67-04 M12-66696
INFLUENCE OF THE ACIDITY OF SOLUTION ON COPRECIPITATION OF CO AND W IONS 67-04 M12-67294
ELECTRODEPOSITION OF ALLOYS FROM THE SULFAMATE BATH --NICKEL-CHROMIUM AND COBALT-ZINC 67-04 M12-67428
THE ELECTRODEPOSITION OF COPPER-MOLYBDENUM ALLOYS 67-04 M12-68111
NICKEL-CADMIUM ALLOY DEPOSITION FROM THE SULPHATE BATH 67-05 M12-68343
SOME EXPERIENCES WITH CHLORIDE-FREE NICKEL BATHS 67-05 M12-68489
SCIENCE FOR ELECTROPLATERS. PT. 114. RUTHENIUM-RHENIUM-IRIDIUM-INDIUM 67-05 M12-68493
ELECTRODEPOSITION OF TC99 FROM AQUEOUS SOLUTION 67-05 M12-68618
ELECTRODEPOSITED PAINT PROTECTS SHARP EDGES 67-05 M12-68679
COBALT --3-- AND CHROMIUM --3-- COMPLEX COMPOUNDS AS BRIGHTENERS IN CYANIDE ZINC BATHS 67-05 M12-68715
DEVELOPMENTS AND TENDENCIES IN THE PRECIOUS-METAL ELECTROPLATING TECHNOLOGY. PT. 2 67-05 M12-68716
THE ELECTRODEPOSITION OF COPPER FROM NONAQUEOUS SOLUTIONS. PT. 1. GENERAL REVIEW AND PRELIMINARY STUDIES 67-05 M12-68815
THE ELECTRODEPOSITION OF COPPER FROM NONAQUEOUS SOLUTIONS. PT. 2. THE ACETIC ACID-PYRIDINE SYSTEM 67-05 M12-68816
INFLUENCE OF ORGANIC ADDITIONS TO ELECTROLYTE ON INTERNAL STRESSES OF ELECTROLYTICALLY DEPOSITED IRON 67-05 M12-69010
WIDER PROPERTIES WITH COMPOSITE COATINGS 67-05 M12-69569
THE ROLE OF TWINNED PLANES IN THE GROWTH OF THICK ELECTROLYTIC DEPOSITS OF NICKEL IN THE --211-- DIRECTION 67-05 M14-69130
GALVANIC ELECTRODES FINISH LARGE CAST-TO-SIZE DIES 67-06 M08-70005
PROTECTION BY ELECTROPAINTING 67-06 M12-70232
ELECTRODEPOSITION OF COPPER-COBALT ALLOYS FROM THE PYROPHOSPHATE BATH 67-06 M12-70641
ELECTRODEPOSITION AT ROTATING CATHODES FROM ACIDIFIED COPPER SULPHATE SOLUTION 67-06 M12-70702
REVIEW OF DEPOSITED METALLIC FILMS FOR COMPUTER APPLICATION 67-06 M12-71380
ANALYSIS OF FOREIGN MOLECULES INCORPORATED IN ELECTROLYTICALLY DEPOSITED NICKEL 67-06 M12-71699
EFFECTS OF ULTRASONICS ON ELECTRODEPOSITION OF COPPER ALLOYS FROM CYANIDE ELECTROLYTES 67-06 M12-72083
THE EFFECT OF OTHER METALLIC IONS ON THE ELECTROCRYSTALLIZATION OF SILVER FROM NITRATE SOLUTIONS 67-06 M14-71383
EFFECT OF SOLUTION COMPOSITION IN GA DEPOSITION ON A GA CATHODE LAYER 67-07 M03-73470
EFFECT OF ELECTROLYSIS CONDITIONS ON THE DISPERSION AND APPARENT DENSITY OF NICKEL POWDER 67-07 M09-73268
ADVANCED METAL COMPOSITES--A STATUS REPORT 67-07 M09-73720
PRETREATMENT OF SUBSTRATE AND ANOMALY OF ELECTRODEPOSITION OF IRON-NICKEL ALLOY AT THE EARLY STAGE OF DEPOSITION 67-07 M12-72603
PROPERTIES AND CHARACTERISTICS OF HARD CHROMIUM COATINGS 67-07 M12-73077
ELECTROFORMING THIN SHELLS FOR EXPERIMENTAL STUDIES 67-07 M12-73132
ELECTRODEPOSITED COMPOSITE COATINGS FOR WEAR RESISTANCE 67-07 M12-73161
INVESTIGATION OF THE POTENTIALS OF GA ELECTRODES AND THE POLARIZATION IN THE ELECTROLYTIC DEPOSITION OF GA AS A FUNCTION OF ITS AGGREGATE STATE 67-07 M12-73178
STRUCTURE AND CONSTITUTION OF THE TIN-PLATE ALLOY LAYER 67-07 M12-73326
SOME CURRENT DEVELOPMENTS IN ELECTROFORMING 67-07 M12-73372
THE ELECTRODEPOSITION OF THIN MAGNETIC PERMALLOY FILMS 67-07 M12-73589
ELECTRODEPOSITION OF THIN MAGNETIC FILMS IN THE NI-FE-CU SYSTEM 67-07 M12-73593
ELECTRODEPOSITION OF 18..8 STAINLESS STEEL 67-07 M12-73767
BIAS SPUTTERING.. ITS TECHNIQUES AND APPLICATIONS 67-07 M12-73835
ELECTROFORMED NICKEL MOTOR CASES CUT COST 67-07 M12-74007
FUNDAMENTAL ASPECTS OF ELECTROCRYSTALLIZATION 67-07 M14-72607
TWINNING PROCESSES IN THE ELECTROCRYSTALLIZATION OF FACE-CENTERED CUBIC METALS 67-07 M14-72952
PROPERTIES AND COMPARATIVE PERFORMANCE OF ELECTRODEPOSITED TERNE ALLOYS 67-07 M17-72768
CATHODIC PROCESS IN THE ELECTROLYSIS OF SOLUTIONS OF MANGANESE CHLORIDE 67-08 M03-74479
ELECTROLYTIC REFINEMENT OF NICKEL USING A CHLORIDE ELECTROLYTE 67-08 M03-74485
ELECTRODEPOSITION OF LEAD FROM CHLORIDE SOLUTIONS 67-08 M03-74486
SOME PECULIARITIES OF THE ELECTRODEPOSITION OF LEAD FROM CHLORIDE SOLUTIONS IN THE COMPACT AND POWDERED FORMS 67-08 M03-74487
ENERGY REQUIREMENTS IN THE ELECTRODEPOSITION OF COPPER 67-08 M03-74782
FINISHING ALUMINUM BY ELECTROPLATING FROM AN ELECTROLESS BATH 67-08 M12-74397
ELECTROFORMING--A NEW PROCESS 67-08 M12-74569
INTERNAL STRESS IN ELECTRODEPOSITS. PT. 3 67-08 M12-74613
PRODUCTION OF NICKEL-IRON ALLOYS 67-08 M12-74614

SCIENCE FOR ELECTROPLATERS. PT. 116. POROSITY
67-08 M12-74616
EFFECTS OF ADDITIVES ON THE CATHODE POLARIZATION IN COPPER CYANIDE BATHS. PT. 2. BRIGHT AND LEVELED COPPER DEPOSITS FROM CYANIDE BATH
67-08 M12-74926
ELECTROFORMING--AN ASSESSMENT 67-08 M12-75700
ELECTROFORMING WITH NI 67-09 M08-78176
ELECTRODEPOSITION OF COHERENT DEPOSITS OF REFRACTORY METALS. PT. 5. MECHANISM FOR THE DEPOSITION OF MOLYBDENUM FROM A CHLORIDE MELT
67-09 M12-76624
ELECTRODEPOSITION OF COHERENT DEPOSITS OF REFRACTORY METALS. PT. 6. MECHANISM OF DEPOSITION OF MOLYBDENUM AND TUNGSTEN FROM FLUORIDE MELTS
67-09 M12-76627
APPLICATIONS OF METAL FINISHING IN PRINTED CIRCUITS. PT. 1 67-09 M12-77388
INTERNAL CHARACTERISTICS OF ELECTROLYTIC COATINGS
67-09 M12-77675
THE INFLUENCE OF SURFACE-ACTIVE ADDITIONS, SUBJECTED TO THE ACTION OF AN ULTRASONIC FIELD, ON THE GROWTH OF AN ELECTROLYTIC SINGLE CRYSTAL OF SILVER 67-09 M14-76511
ELECTROFORMING SHAPES A NEW IMAGE
67-10 M08-78594
A STUDY OF THE PREPARATION OF LEAD POWDER BY DIRECT REDUCTION OF LEAD MONOXIDE AND LEAD DIOXIDE 67-10 M09-78756
FIBER-REINFORCEMENT OF METALS BY FILAMENT-WINDING AND ELECTROFORMING TECHNIQUE 67-10 M09-79171
ONE PIECE ROCKET CASES BY ELECTROFORMING
67-10 M12-78658
ELECTROFORMING CHALLENGES CONVENTIONAL DIEMAKING METHODS 67-10 M12-78881
THE ELECTRODEPOSITION OF AU AND AU ALLOYS
67-10 M12-79076
AN ASSESSMENT OF ELECTROFORMING
67-10 M12-79438
EFFECTS OF THE TYPE OF CURRENT WAVES AND ADDITION AGENTS ON THE FORMATION OF ELECTRODEPOSITED NUCLEI. PT. 2 67-10 M12-79607
ELECTROLYTIC GOLD DEPOSITS 67-10 M12-79702
DEVELOPMENTS AND TENDENCIES IN PRECIOUS METALS ELECTROPLATING TECHNOLOGY. PT. 7
67-10 M12-79888
THE ELECTRODEPOSITION OF THIN FE-NI FILMS
67-10 M12-79893
PRECIOUS METAL ELECTRODEPOSITS FOR ELECTRICAL CONTACT SERVICE 67-10 M12-79938
INVESTIGATION OF REFLECTIVITY AND STRUCTURE OF ELECTRODEPOSITED NICKEL DURING ELECTROLYSIS
67-10 M12-79940
ELECTRON-BEAM DEPOSITION OF MOLYBDENUM CARBIDE FILMS FROM MOLYBDENUM HEXACARBONYL
67-10 M15-79446
LUBRICATION WITH ELECTRODEPOSITED FILMS OF SILVER-RHENIUM AND GOLD-MOLYBDENUM 67-10 M17-78587
EFFECT OF SULFUR AND SELENIUM ON THE ELECTRODEPOSITION OF MANGANESE
67-11 M03-80433
EFFECT OF MNS206 ON THE ELECTROLYSIS OF MANGANESE
67-11 M03-80434
HIGH-PURITY MANGANESE PRECIPITATES
67-11 M03-80435
EFFECT OF VARIOUS FACTORS ON THE ELECTRODEPOSITION OF MANGANESE USING A TITANIUM CATHODE
67-11 M03-80455
THE EFFECT OF ORGANICS IN COPPER SULPHATE ELECTROFORMING BATHS 67-11 M12-80193
ELECTRODEPOSITION OF THICK COATINGS OF PLATINUM AND PALLADIUM ON REFRACTORY METALS FROM AQUEOUS ELECTROLYTES 67-11 M12-80396
ON THE ELECTRODEPOSITION OF MANGANESE AND MANGANESE-BISMUTH ALLOY 67-11 M12-80448
INORGANIC--NEW TECHNIQUE FOR METAL DEPOSITION--NITROGEN FIXED TO METAL--BORDING AND EXCHANGE BEHAVIOR 67-11 M12-80533
COBALT-CADMIUM ALLOY DEPOSITION FROM SULFATE BATHS
67-11 M12-80666
ELECTROCRYSTALLIZATION--A CONCEPT SYNONYMOUS TO ELECTRODEPOSITION 67-11 M12-80697
INFLUENCE OF THE EDGE EFFECT ON THE TEXTURE OF COPPER DEPOSITS 67-11 M12-80729
NUCLEATION IN ELECTROLYTIC METAL DEPOSITION
67-11 M12-80806
IS IT TIME TO RECONSIDER ELECTROFORMING
67-11 M12-81191
NOTES ON THE FARADAY LAW 67-11 M12-81237
EFFECT OF ASYMMETRIC ALTERNATING CURRENT ON THE LEVELING OF NICKEL DEPOSITS DURING ELECTROLYSIS
67-11 M12-81286
ELECTRODEPOSITION OF CADMIUM FROM POLYETHYLENE-POLYAMINE ELECTROLYTES 67-11 M12-81287
ELECTROLYTICAL PRODUCTION OF COMPLEX METAL POWDER OF THE CO-NI SYSTEM 67-12 M09-82203
THICKNESS AND HARDNESS MEASUREMENTS OF ELECTRODEPOSITS 67-12 M12-81751
ELECTRODEPOSITION OF IRIDIUM FROM FUSED SODIUM CYANIDE AND AQUEOUS ELECTROLYTES. A PRELIMINARY STUDY 67-12 M12-81941
COATING WITH A CHARGED CLOUD 67-12 M12-81970
A KINETIC STUDY OF COPPER PRECIPITATION ON IRON.
67-12 M12-82584
DIFFERENTIAL NICKEL AND COPPER PLATING
67-12 M12-82607
ELECTROFORMING. A MODERN METALWORKING PROCESS. PT. 1 67-12 M12-83083
THE ELECTROLYTIC DEPOSITION OF PT AND PT ALLOYS WITH EMPHASIS ON INCREASED HARDNESS
67-12 M12-83084
ELECTROFORMING ALUMINIUM 67-12 M12-83138
ELECTROLYTIC DEPOSITION OF ZINC-CADMIUM ALLOY FROM ACETATE BATHS 67-12 M12-83491
PROPERTIES OF ELECTRODEPOSITED AG-CU ALLOYS. PT. 4. METALLURGICAL STUDIES ON ELECTRICAL CONTACT MATERIALS 67-12 M12-83509
TESTING GALVANIC COATINGS BY RADIOCHEMICAL METHOD
67-12 M19-82935

ELECTRODEPOSITION, ULTRASONICS
THE EFFECT OF ULTRASONICS ON THE ELECTRODEPOSITION OF NI-FE-MO ALLOYS 67-09 M12-76366

ELECTRODES
SEE ALSO ANODES
CATHODES
COATED ELECTRODES
GRIDS /TUBE COMPONENTS/
WELDING ELECTRODES
WELDING RODS
ELECTRODISCHARGE MACHINING 67-01 M08-58006
ENERGY RATE INPUT CONTROL OF ARC FURNACES
67-04 M04-67189
THERMODYNAMIC AND KINETIC CONSIDERATIONS CONCERNING THE IRON CORROSION ELECTRODE 67-04 M12-67754
INDUSTRIAL TESTS ON THE USE OF LISTVYANSK ANTHRACITE TO LINE HEARTHS OF ALUMINUM ELECTROLYZERS 67-06 M03-71353
GALVANIC ELECTRODES FINISH LARGE CAST-TO-SIZE DIES
67-06 M08-70005
MATCHING THE EDM ELECTRODE MATERIAL TO THE EDM APPLICATION 67-06 M08-71481
EDM THRU-HOLE APPLICATIONS 67-06 M08-71485
DEGREE OF COKE CALCINATION IN MANUFACTURE OF ANODE MATERIAL 67-08 M03-75093
EDM TECHNIQUES FOR MACHINABLE CARBIDES
67-08 M08-75942
THE DETERMINATION OF TRACE ELEMENTS IN CAST IRON USING A DIRECT READING SPECTROMETER
67-08 M19-75585
GRAPHITE-ELECTROLYTIC ANODES 67-09 M14-77135
ALUMINUM CELL CATHODES 67-09 M20-77137
GRAPHITE AS CATHODE MATERIAL FOR THE PRODUCTION OF HIGH-PURITY METALS 67-11 M03-81433
COMPARATIVE EFFICIENCY OF VARIOUS METHODS OF PRODUCING CONSUMABLE ELECTRODES FOR ELECTROSLAG REMELTING 67-12 M04-81730
WAYS TO INCREASE YOUR EDM PRODUCTIVITY
67-12 M08-82909
GRAPHITE. PROGRESS OF A BLACK ART
67-12 M15-82997

ELECTRODES, BAKING
AUTOCLAVE BAKING OF CARBON-GRAPHITE MATERIALS
67-02 M05-61283
DEPENDENCE OF THE QUALITY OF THE ANODE OF AN ALUMINUM ELECTROLYTIC CELL ON THE NUMBER AND DIAMETER OF PINS 67-08 M03-75206

ELECTRODES, CORROSION
ELECTROLYTIC A-C CORROSION OF SOME METALS
67-08 M18-76255
METHOD OF PREPARING LEAD-BASE ALLOYS WITH ALLOYING SULFUR AND COBALT ADDITIVES FOR THE MANUFACTURE OF INSOLUBLE ANODES 67-10 M18-79810
ELECTRODE POTENTIALS AND DATA FROM CORROSION TESTING OF AL-MN ALLOYS IN NEUTRAL WEAK-ACID AND ALKALINE SOLUTIONS 67-11 M18-80452
CORROSION OF ELECTROPRECIPITATED ANTIMONY AND SOME OTHER ANODE MATERIALS IN SULFIDE-ALKALI ELECTROLYTE 67-11 M18-81295

ELECTRODES

STABILITY OF LEAD BASE ALLOYS IN SULFURIC ACID SOLUTIONS IN CONDITIONS OF ANODIC POLARIZATION 67-11 M18-81296

ELECTRODES, DIFFUSION
DIFFUSION OF OXYGEN WITH UO2 UNDER AN ELECTRIC FIELD AT TEMPERATURES OF 900 TO 1000 C 67-04 M14-67462

ELECTRODES, ELECTRICAL PROPERTIES
POTENTIOSTATIC CURRENT-POTENTIAL MEASUREMENTS ON A PLATINUM ELECTRODE IN A HIGH-PURITY CLOSED SYSTEM 67-06 M15-72167
MAGNETORESISTANCE 67-07 M16-74207

ELECTRODES, EROSION
EDM ELECTRODES 67-06 M08-71449

ELECTRODES, FIRING
ELECTRICAL CLEANING OF THE WASTE GASES FROM ELECTRODE KILNS 67-06 M05-71837

ELECTRODES, MACHINING
EDM PLUS NC--FORDS WINNING COMBINATION FOR DIE MACHINING 67-11 M08-80677

ELECTRODES, MATERIALS
CARBON ELECTRODES FOR FUEL CELLS 67-05 M09-68926

ELECTRODES, MECHANICAL PROPERTIES
NEW ALLOYS FOR ELECTRODES OF RESISTANCE WELDING MACHINES 67-09 M11-77608
WEAR OF A GRAPHITE ELECTRODE IN AN ELECTRIC ARC 67-12 M17-83449

ELECTRODES, OXIDATION
INVESTIGATION OF THE ELECTROCHEMICAL BEHAVIOR OF MANGANESE AND NICKEL ON A MERCURY ELECTRODE 67-11 M18-80445

ELECTRODES, POWDER METALLURGY
PRODUCTION OF ELECTRODE STRIP FROM CADMIUM OXIDE BY POWDER ROLLING 67-02 M09-62132
THE STRUCTURE OF POROUS NICKEL ELECTRODES MADE BY THE POWDER METALLURGICAL METHOD 67-06 M09-70962
NEW HIGH-EFFICIENCY ELECTRODES--TOOLS FOR SPARK MACHINING MADE OF CERMET CHIPS 67-06 M09-72325
THE INFLUENCE OF SINTER TEMPERATURE ON THE CAPACITY OF SILVER ELECTRODES 67-11 M09-80838
INFLUENCE OF POROSITY ON PROPERTIES OF POWDER METALLURGY ELECTRODES OF CARBONYL 67-12 M09-82212

ELECTRODES, PRODUCTION
CARBORUNDUM ENTERS GRAPHITE ELECTRODE FIELD--UNVEILS NEW PLANT 67-09 M08-77151

ELECTRODES, REACTIONS /CHEMICAL/
A COULOGRAVIMETRIC STUDY OF THE SINTERED SILVER ELECTRODE IN 1 MOLAR POTASSIUM HYDROXIDE 67-05 M14-68615
ANODIC PROCESS IN ACID TIN PLATING ELECTROLYTES 67-11 M12-81297

ELECTRODES, SERVICE TIME
DURABILITY OF A TUNGSTEN ELECTRODE WHEN WELDING WITH REVERSE POLARITY PULSED ARC 67-09 M11-77611

ELECTRODES, THERMAL PROPERTIES
THE PROPERTIES OF ELECTRODE GRAPHITE AND THEIR EFFECT ON THE USE OF ELECTRODES IN ARC FURNACES. PT. 1. THE TEMPERATURE DEPENDENCE OF VARIOUS PROPERTIES 67-08 M15-75111
THE PROPERTIES OF ELECTRODE GRAPHITE AND THEIR EFFECT ON THE USE OF ELECTRODES IN THE ELECTRIC ARC FURNACE. PT. 2. TEMPERATURE DISTRIBUTION IN ELECTRODES USED IN ELECTRIC ARC FURNACES 67-08 M19-75112
MEASUREMENT OF THE THERMAL CONDUCTIVITY OF MANUFACTURED CARBON PRODUCTS 67-09 M03-77033

ELECTRODES, WEAR
REDUCING THE CONSUMPTION OF ARC FURNACE ELECTRODES 67-02 M04-61908

ELECTRODES, WEAR TESTS
TESTING NEW MATERIALS FOR CATHODE LEADS OF ALUMINUM ELECTROLYTIC CELLS 67-08 M03-75209

ELECTRODIFFUSION
ELECTRODIFFUSION IN DILUTE COPPER ALLOYS 67-10 M15-79115

ELECTROEROSION /DETERIORATION/
SEE GALVANIC CORROSION

ELECTROEROSION /MACHINING/
SEE ALSO ELECTRIC DISCHARGE GRINDING
ELECTROCHEMICAL MACHINING
ELECTROLYTIC GRINDING
ELECTRON BEAM MACHINING
SPARK MACHINING
SPARK EROSION OF PERFORATING PRESS TOOLS 67-02 M08-59999
GALVANIC ELECTRODES FINISH LARGE CAST-TO-SIZE DIES 67-06 M08-70005
ELECTROEROSION--FROM IDEA TO EXPERIENCE, QUESTIONS RAISED BY USERS 67-12 M08-82081

ELECTROEROSION /MACHINING/, AUTOMATION
TAPE CONTROLLED ELECTROEROSION 67-10 M08-79051

ELECTROEROSIVE MACHINING
SEE ELECTROEROSION /MACHINING/

ELECTROFORMING
SEE ELECTRODEPOSITION
FORMING

ELECTROGALVANIZING
SEE ELECTROPLATING
GALVANIZING
ZINC PLATING

ELECTROGAS WELDING
SEE GAS METAL ARC WELDING

ELECTROHEATING
SEE ELECTRIC HEATING

ELECTROHYDRODYNAMICS
SEE MAGNETOHYDRODYNAMICS

ELECTROLESS DEPOSITION /PLATING/
SEE ELECTROLESS PLATING

ELECTROLESS NICKEL PLATING
SEE ELECTROLESS PLATING
NICKEL PLATING

ELECTROLESS PLATING
PRINCIPLE, PRACTICE AND APPLICATIONS OF CURRENTLESS NICKEL PLATING. PT. 2 67-01 M12-58011
ELECTROLESS NICKEL PLATING, BASED ON CATALYTIC NICKEL PRECIPITATION ACCORDING TO THE KANIGEN PROCESS 67-01 M12-58391
ELECTROLESS NICKEL PLATING FROM ALKALI SOLUTIONS IN ABSENCE OF ORGANIC ADDITIONS 67-01 M12-58712
THROWING POWER OF NICKEL BARREL PLATING 67-02 M12-59160
MODERN DEVELOPMENTS AND TRENDS IN ELECTROPLATING 67-02 M12-59970
HOW TO METALLIZE PLASTICS 67-02 M12-61109
PROTECTING METALS WITH ELECTROLESS NICKEL COATINGS 67-02 M18-61141
ELECTROLESS NICKEL PLATING OF IRON METAL POWDERS 67-04 M09-66252
METALLIZED PLASTICS 67-04 M12-66672
AN EXPERIMENTAL, CONTINUOUSLY REGENERATED ELECTROLESS NICKEL PLATING FACILITY 67-04 M12-66717
COATINGS AND FINISHES 67-04 M12-67538
THEORY AND PRACTICE OF ELECTROPLATING A. B. S. PLASTICS 67-04 M12-67750
THE PRETREATMENT OF STEEL AND AL BY THE KANIGEN PROCESS 67-04 M12-68004
THE PRINCIPLES, PRACTICE AND POSSIBLE APPLICATIONS OF CURRENTLESS NI PLATING. PT. 3 67-04 M12-68061
PROPERTIES OF PLATED FILMS OF ELECTROLESS COBALT 67-05 M12-69001
ELECTROLESS NICKEL PLATING OF ZINC ALLOYS 67-05 M12-69831
MAGNETIC PROPERTIES OF CHEMICALLY PRODUCED NICKEL FILMS 67-05 M15-68241
WHATS NEW IN ELECTROPLATING 67-06 M12-70031
ELECTROLESS PLATING BATH FOR COBALT-NICKEL ALLOY ON CAUSTIC ALKALINE CITRATE BATH 67-06 M12-71292
REVIEW OF DEPOSITED METALLIC FILMS FOR COMPUTER APPLICATION 67-06 M12-71380
NICKEL PLATING WITHOUT ELECTRICITY 67-06 M12-71490
EFFECTS OF BORIC ACID IN ELECTROLESS PLATING BATH 67-07 M12-72605
AN INTRODUCTION TO CHEMICAL NICKEL PLATING WITH SODIUM BOROHYDRIDE OR AMINE BORANES AS REDUCING AGENTS 67-07 M12-72770
ELECTROLESS PLATING FOR ELECTRONIC APPLICATIONS 67-07 M12-72771
THICK NICKEL DEPOSITS OF HIGH PURITY BY ELECTROLESS METHODS 67-07 M12-72772
ELECTROPLATED PLASTICS IN THE ELECTRONICS INDUSTRY 67-07 M12-73642
ELECTROLESS NICKEL DEPOSITED AT CONTROLLED PH--MECHANICAL PROPERTIES AS A FUNCTION OF PHOSPHORUS CONTENT 67-07 M12-74122
EFFECT OF PH VARIATION ON THE MAGNETIC PROPERTIES OF ELECTROLESS COBALT-PHOSPHORUS THIN FILMS 67-07 M12-74123
THE INFLUENCE OF CERTAIN ADDITION AGENTS ON THE

DEPOSITION RATE AND HARD MAGNETIC PROPERTIES OF ELECTROLESS COBALT 67-07 M12-74124
EVALUATION AND CONTROL OF THE MAGNETIC PROPERTIES OF CONTINUOUSLY PLATED ELECTROLESS NICKEL-COBALT-PHOSPHORUS MAGNETIC TAPE 67-07 M12-74125
SOME PRODUCTION PLATING PROBLEMS AND HOW THEY WERE SOLVED. PT. 11 67-07 M12-74127
PLATING PLASTICS 67-07 M12-74155
FINISHING ALUMINUM BY ELECTROPLATING FROM AN ELECTROLESS BATH 67-08 M12-74397
CHEMICAL NICKEL PALTING AND COBALT PLATING 67-08 M12-76018
METALLIC COATINGS SOLVE ENVIRONMENTAL PROBLEMS 67-09 M12-76469
EFFECTS OF PLATING CONDITION ON REDUCTION EFFICIENCIES OF ELECTROLESS COBALT PLATING BATHS 67-09 M12-76682
SUBSTRATE FOR MICROELECTRONICS MANUFACTURING PROCESS FOR EXTREMELY SMOOTH, CONDUCTIVE MATERIALS 67-09 M12-76689
NICKEL PLATING WITHOUT ELECTRICITY 67-09 M12-76735
ELECTROLESS PLATING VARIABLES AND COERCIVE FORCE OF NICKEL-COBALT-PHOSPHORUS FILMS 67-09 M12-76997
METAL PLATING OF A B S AND OTHER POLYMERS 67-09 M12-77539
IMPROVING THE STABILITY OF ELECTROLESS COPPER PLATING SOLUTIONS 67-09 M12-77694
MAGNETIC PROPERTIES OF ELECTROLESS COBALT BASED ALLOYS 67-09 M15-76998
ELECTROLESS NICKEL PLATING OF IRON POWDERS 67-10 M09-78984
INFLUENCE OF THE NATURE AND CONCENTRATION OF ORGANIC ADDITIONS ON THE PROCESS OF ELECTROLESS NICKEL PLATING 67-10 M12-78532
NEW DEVELOPMENTS IN THE FIELD OF ELECTROPLATING 67-10 M12-79793
PLATING 67-11 M12-80480
STABILITY OF ELECTROLESS CHEMICAL COPPER-PLATING SOLUTIONS 67-11 M12-81289
CHEMICAL NICKEL PLATING OF ZINC ALLOYS 67-12 M12-82265
THERMODYNAMIC CHARACTERISTICS OF ELECTROLESS CHROMIUM PLATING 67-12 M12-83085
ELECTROLESS COBALT PLATING WITH HYDRAZINE AS REDUCING AGENT. PT. 6. STUDIES ON ELECTROLESS PLATING OF COBALT AND ITS ALLOYS 67-12 M12-83510

ELECTROLUMINESCENCE
MEASUREMENTS OF THE DECAY OF LUMINESCENCE OF ELECTROLUMINESCENT ZNS PHOSPHORS WITH DIFFERENT EXCITATION 67-03 M16-65440
CATHODOLUMINESCENCE OF P-TYPE GAAS 67-04 M16-66761
ELECTROLUMINESCENCE AND CRYSTALLOGRAPHIC POLARITY OF GALLIUM ANTIMONIDE 67-08 M16-74609
IMPROVEMENT OF QUANTUM EFFICIENCY IN GALLIUM ARSENIDE ELECTROLUMINESCENT DIODES 67-10 M15-79121

ELECTROLUMINESCENCE, DIFFUSION EFFECTS
ELECTROLUMINESCENCE OF IRON-SULFUR DIFFUSED GAAS JUNCTIONS 67-06 M16-71145

ELECTROLYSIS
SEE ALSO FUSED SALT ELECTROLYSIS
NEW DEVELOPMENTS IN SURFACE TREATMENT IN THE AEROSPACE INDUSTRY 67-01 M12-58302
DISSOLUTION OF METALS BY AC ELECTROLYSIS 67-01 M14-58583
ANODIC DISSOLUTION OF NICKEL IN A MELTED MIXTURE OF SODIUM AND POTASSIUM CHLORIDES 67-02 M02-61542
STUDY OF ELECTRODE PROCESSES IN ELECTROLYTIC PRODUCTION AND REFINING OF TITANIUM IN FUSED SALTS 67-02 M03-59640
CRYSTALLIZATION OF METALS ON THE CATHODE DURING ELECTROLYSIS OF FUSED SALTS 67-02 M03-59647
INTERACTION OF MAGNESIUM WITH CERTAIN IMPURITIES IN THE ELECTROLYSIS OF MAGNESIUM CHLORIDE 67-02 M03-60541
EFFECT OF SILICA IMPURITIES ON THE ELECTROLYSIS OF MAGNESIUM CHLORIDE AND CARNALLITE 67-02 M03-60567
EFFECT OF IMPURITIES ON THE ELECTROLYSIS PROCESS FOR MAGNESIUM CHLORIDE AND CARNALLITE 67-02 M03-60960
ELECTROCHEMICAL REFINEMENT OF CRUDE ZINC IN SALT MELTS 67-02 M03-60963
COMMERCIAL TESTING OF ADDITIONS OF LITHIUM HYDROXIDE TO AN ALUMINUM ELECTROLYZER ELECTROLYTE WHICH CONTAINS SODIUM CHLORIDE AND MAGNESIUM FLUORIDE 67-02 M03-61281
INVESTIGATION OF ELECTROLYSIS OF TIN FROM SODIUM STANNATE SOLUTIONS 67-02 M03-61545
CONSUMPTION OF ANODE MASS IN ELECTROLYSIS OF ALUMINUM 67-02 M03-61612
THE INTRODUCTION OF HYDROGEN INTO IRON 67-02 M14-62250
DETERMINING THE RELATIONSHIP BETWEEN ALUMINUM ELECTROLYZER HEAT LOSSES AND MELT TEMPERATURE 67-02 M15-60958
THE EFFECTS OF THE CONDITIONS OF ELECTROLYSIS ON THE FORMATION OF ELECTRODEPOSITED NUCLEI 67-02 M18-60279
A PHOTOMETRIC METHOD FOR DETERMINING REFLECTIVITY AND ADHERENCE OF DEPOSITED METAL 67-03 M12-65104
HOW CERTAIN FACTORS AFFECT THE REDUCTION OF GALLIUM IN ALKALINE SOLUTIONS OF ALUMINUM GALLAM ALLOYS. PT. 2 67-04 M03-66851
ON ECONOMICAL CURRENT DENSITY IN CHLORIDE ELECTROLYSIS OF NICKEL 67-04 M03-66966
STUDY OF ELECTRICAL FIELD IN CATHODE METAL OF ALUMINUM ELECTROLYZERS 67-04 M03-66970
INDUSTRIAL TESTS ON THE INTENSIFICATION OF MAGNESIUM ELECTROLYZERS WITH SIDE ANODE SUPPLY 67-04 M03-66972
AN AQUEOUS CHLORINATION PROCESS FOR THE TREATMENT OF MERRILL SLIMES AND GRAVITY CONCENTRATES FROM GOLD ORES. PT. 3. NOTES ON THE RECOVERY OF SILVER 67-04 M03-67758
RECOVERY OF TUNGSTEN FROM SCRAP 67-04 M03-68167
CEMENTATION OF CO FROM ZINC SOLUTIONS 67-05 M03-68957
RELATIONSHIP BETWEEN OXIDIZABILITY AND ELECTROCHEMICAL BEHAVIOR OF CARBON ATOMS DURING THE ELECTROLYSIS OF ALUMINUM 67-05 M03-68960
ELECTROLYSIS AND ION TRANSPORT MECHANISM IN URANIUM DIOXIDE 67-05 M15-69295
METHOD OF FEEDING MAGNESIUM ELECTROLYZERS WITH RAW MATERIAL 67-06 M03-70143
THE INFLUENCES OF OXYGEN CONTENT IN ANODE COPPER AND IN ELECTROLYTE ON COURSE OF ELECTROLYTIC COPPER REFINING 67-06 M03-70854
FACTORS AFFECTING GALLIUM ELECTROLYSIS 67-06 M03-70905
CURRENT EFFICIENCY IN ALUMINA ELECTROLYSIS 67-06 M03-70917
MECHANISM OF ALUMINUM LOSS IN CRYOLITE-ALUMINA MELTS 67-06 M03-70929
DIRECT ACID PRESSURE LEACHING OF CHALCOCITE CONCENTRATE 67-06 M03-72075
WETTABILITY AND PITTING FORMATION ON CATHODE NICKEL 67-06 M03-72106
STUDY OF ELECTROLYSIS IN THE TL-S AND TL-SE SYSTEMS 67-06 M03-72113
CONTRIBUTION TO THE ELECTROLYTIC PRECIPITATION OF MANGANESE 67-07 M03-73225
EFFECT OF SOLUTION COMPOSITION IN GA DEPOSITION ON A GA CATHODE LAYER 67-07 M03-73470
REDUCTION OF SAMARIUM IONS ON A GALLIUM CATHODE LAYER 67-07 M03-73477
TECHNOLOGY OF ELECTROLYTIC REDUCTION OF ALUMINA BY THE HALL-HEROULT PROCESS. PT. 4. CHEMICAL PROCESSES ASSOCIATED WITH THE ANODE EFFECT 67-07 M03-73610
PHOTOMETRIC METHOD OF DETERMINING THE REFLECTING POWER OF DEPOSITED METAL AND ITS ADHESION TO THE SUBSTRATE 67-07 M12-72788
SOME ASPECTS OF MAGNESIUM PRODUCTION BY ELECTROLYTIC PROCESS ON A PILOT PLANT SCALE 67-08 M03-74385
ELECTROLYTIC MANGANESE AND ELECTROLYSIS OF CHLORIDES 67-08 M03-74478
ELECTROCHEMICAL REFINEMENT OF FERROMANGANESE PHOSPHIDE IN CHLORIDE ELECTROLYTES FOR THE PRODUCTION OF PURE MANGANESE 67-08 M03-74481
PRODUCTION OF CHROMIC CHLORIDE FROM THE ELECTROLYTIC HYDROXIDE, FOLLOWED BY ELECTRODEPOSITION OF METALLIC CHROMIUM 67-08 M03-74483
SEMI-INDUSTRIAL APPARATUS FOR OBTAINING ELECTROLYTIC CHROMIUM FROM AQUEOUS SOLUTIONS OF CHROMIC CHLORIDE OBATINED BY CHLORINATION OF CHROMIUM ORES 67-08 M03-74484
ELECTROLYTIC REFINEMENT OF NICKEL USING A

CHLORIDE ELECTROLYTE 67-08 M03-74485
ELECTRODEPOSITION OF LEAD FROM CHLORIDE SOLUTIONS 67-08 M03-74486
SOME PECULIARITIES OF THE ELECTRODEPOSITION OF LEAD FROM CHLORIDE SOLUTIONS IN THE COMPACT AND POWDERED FORMS 67-08 M03-74487
LITHIUM FLUROIDE-A NECESSARY ELECTROLYTE COMPONENET OF ALUMINUM CELLS 67-08 M03-75092
INFLUENCE OF CHLORINE IONS ON ELECTROLYTIC PRECIPITATION OF ZINC DURING ELECTROREFINING OF NICKEL 67-08 M03-75204
SOME PROBLEMS OF ANODIC DEPOLARIZATION 67-08 M03-75443
INTERPRETATION OF REDUCED CURRENT EFFIEIENCY IN TECHNICAL ELECTROLYSIS OF AL 67-08 M03-76260
PRODUCTION OF METALLIC MANGANESE BY ELECTROLYSIS OF A HIGH-PHOSPHORUS MANGANESE ALLOY IN MOLTEN MEDIA 67-08 M13-74482
ELECTROCHEMICAL NATURE OF SILICON TRANSFER BETWEEN MOLTEN AG-SI ALLOY AND CAO-B2O3-SIO2 SLAG 67-08 M14-75565
PURIFICATION OF GAS FROM ALUMINUM ELECTROLYTIC CELLS 67-09 M03-76822
ANODE SAMPLER FOR ALUMINUM ELECTROLYZERS 67-09 M03-76865
CRUST BREAKER FOR LATERALLY SUPPLIED ALUMINUM ELECTROLYZERS 67-09 M03-76868
CONTACT CLAMP FOR SIMULTANEOUS TIGHTENING OF TWO TOP-SUPPLIED ALUMINUM ELECTROLYZER PINS 67-09 M03-76869
THE THEORY AND PRACTICE OF MOLTEN FLUX ELECTROLYSIS OF ALUMINUM 67-09 M03-77029
INVESTIGATION OF THE ELECTROLYTIC REDUCTION OF TITANIUM SULFATE --4-- DURING THE MANUFACTURE OF HIGHLY DISPERSED POWDERED COPPER 67-09 M03-77050
POLARIZATION OF LIQUID ZINC CATHODE DURING ELECTROLYSIS OF ZIRCONIUM-BEARING POTASSIUM AND SODIUM CHLORIDE MELTS 67-09 M03-77122
ELECTROLYTIC PREPARATION OF LEAD POWDER 67-09 M09-76838
CATHODE FOR OBTAINING COPPER POWDER BY ELECTROLYSIS 67-09 M09-76871
ELECTROLYZER FOR THE PREPARATION OF FINE COPPER POWDER 67-09 M09-76931
ELECTRODE KINETICS 67-09 M14-77011
MANUFACTURING PROBLEMS OF METALLIC SODIUM 67-10 M03-78317
THE ELECTROLYTIC DEOXIDATION OF METALLIC MELTS, PARTICULARLY STEEL AND CU 67-10 M04-78792
THE ELECTRODEPOSITION OF AU AND AU ALLOYS 67-10 M12-79076
INVESTIGATION OF REFLECTIVITY AND STRUCTURE OF ELECTRODEPOSITED NICKEL DURING ELECTROLYSIS 67-10 M12-79940
THE ANODIC DISSOLUTION OF ELECTRODEPOSITED NICKEL 67-10 M14-79966
MEASUREMENT OF OXYGEN PRESSURE IN LIQUID IRON BY THE OXYGEN CONCENTRATION CELLS WITH THE SOLID ELECTROLYTE, ZRO2.CAO 67-10 M19-79992
AN ELECTROCHEMICAL METHOD OF BENEFICIATING MANGANESE ORES 67-11 M02-80457
DATA ON THE POLARIZATION OF ELECTRODES IN SOLUTIONS, RELATED TO THE EXTRACTION OF MANGANESE BY ELECTROLYSIS 67-11 M03-80426
SOME PROBLEMS IN REFINING FERROMANGANESE IN MOLTEN ELECTROLYTES 67-11 M03-80427
ELECTROLYSIS OF NITRATE OF MANGANESE SOLUTIONS 67-11 M03-80430
EFFECT OF MNS2O6 ON THE ELECTROLYSIS OF MANGANESE 67-11 M03-80434
HIGH-PURITY MANGANESE PRECIPITATES 67-11 M03-80435
EXTRACTION OF CHLOROUS MANGANESE, CHLORINE, AND ELECTROLYTE FOR ELECTROLYTIC MANGANESE FROM OXIDI MANGANESE ORE AND HYDROCHLORIC ACID 67-11 M03-80436
EXTRACTION OF MNO2 BY ELECTROLYSIS FROM INTERMEDIATE PRODUCTS BY HYDROCHLORIC PROCESSING OF LEAN CARBONATE ORES 67-11 M03-80437
EFFECT OF CARBON IN MANGANESE ALLOYS ON PRODUCTS AND THE PROCESS OF THEIR ANODIC DISSOLUTION IN ALKALINE ELECTROLYTICS 67-11 M03-80438
CERTAIN TECHNICAL PROBLEMS OF THE ELECTROCHEMISTRY OF MANGANESE 67-11 M03-80440
CHLORIDIC METHODS FOR ELECTROLYTIC EXTRACTION OF PURE MANGANESE 67-11 M03-80442
ELECTROCHEMICAL PRODUCTION OF HIGH PURITY MANGANESE 67-11 M03-80444
THE THEORY OF THE CATHODIC REDUCTION OF MANGANESE DIOXIDE 67-11 M03-80449
STUDY OF THE ELECTROLYSIS OF MANGANESE CHLORIDE SOLUTIONS 67-11 M03-80453
EFFECT OF VARIOUS FACTORS ON THE ELECTRODEPOSITION OF MANGANESE USING A TITANIUM CATHODE 67-11 M03-80455
METHOD OF PRODUCING ALKALI METALS 67-11 M03-81223
ALUMINUM ELECTROLYSIS. --HIGH-DUTY ALUMINUM ELECTROLYTIC CELLS WITH UPPER CURRENT SUPPLY-- 67-11 M03-81226
AUTOMATIC ELECTROLYTIC CELL FOR OBTAINING METAL POWDERS BY ELECTROLYSIS OF AQUEOUS SALT SOLUTIONS 67-11 M09-81601
INVESTIGATION OF THE ELECTROCHEMICAL BEHAVIOR OF MANGANESE AND NICKEL ON A MERCURY ELECTRODE 67-11 M18-80445
STABILITY OF LEAD BASE ALLOYS IN SULFURIC ACID SOLUTIONS IN CONDITIONS OF ANODIC POLARIZATION 67-11 M18-81296
PURIFYING SODIUM STANNATE SOLUTIONS WHEN LEACHING MELTS OF ALKALINE REFINEMENT OF LEAD 67-12 M02-83088
AN EXAMINATION OF INDUSTRIAL-SCALE ELECTROLYTIC REFINING OF ALUMINUM USING LABELED ATOMS 67-12 M03-82489
INDUSTRIAL USE OF AN INTENSIFIED METHOD OF CADMIUM ELECTROLYSIS WITH PRODUCTION OF A NONCOMPACT DEPOSIT 67-12 M03-83089

ELECTROLYSIS, AUTOMATIC CONTROL
ANODE PROBE FOR AUTOMATIC ALUMINUM ELECTROLYZER CONTROL 67-09 M03-76864

ELECTROLYSIS, AUTOMATION
AUTOMATIC SYSTEM FOR CONTROL OF COPPER WHEN SEPARATING COPPER AND CADMIUM IMPURITIES FROM ZINC ELECTROLYTES 67-08 M03-75202
AUTOMATIC CONTROL OF AN ALUMINUM ELECTROLYZER 67-09 M03-76867

ELECTROLYSIS, IMPURITY EFFECTS
CATHODIC PROCESS IN THE ELECTROLYSIS OF SOLUTIONS OF MANGANESE CHLORIDE 67-08 M03-74479
ELECTROCHEMICAL BEHAVIOR OF IMPURITIES DURING ELECTROLYTIC PRODUCTION OF HIGH-PURITY LEAD 67-10 M03-79036
EFFECT OF CADMIUM, CHLORINE, SODIUM, POTASSIUM AND GERMANIUM CONTENTS ON THE TECHNICAL RESULTS OF ZINC ELECTROLYSIS 67-11 M03-81618

ELECTROLYSIS, REACTIONS /CHEMICAL/
THEORETICALLY PROBABLE REACTIONS AT THE ANODE OF THE ALUMINIUM ELECTROLYTIC CELL 67-02 M03-58873

ELECTROLYSIS, REFINING
STUDY OF THE POLARIZATION ELECTROMOTIVE FORCES DURING ELECTROLYTIC DEPOSITION OF MG FROM AL-MG ALLOYS 67-05 M03-68962

ELECTROLYTES
SEE ALSO ANOLYTES
AQUEOUS ELECTROLYTES
CATHOLYTES
NONAQUEOUS ELECTROLYTES
COMMERCIAL TESTING OF ADDITIONS OF LITHIUM HYDROXIDE TO AN ALUMINUM ELECTROLYZER ELECTROLYTE WHICH CONTAINS SODIUM CHLORIDE AND MAGNESIUM FLUORIDE 67-02 M03-61281
PURIFYING NICKEL ELECTROLYTES OF COBALT BY AMINE EXTRACTION 67-02 M03-62045
A THERMODYNAMIC STUDY OF SOLID IRON-GOLD AND COBALT-GOLD ALLOYS BY THE USE OF SOLID OXIDE ELECTROLYTES 67-05 M13-68693
EFFECT OF SOLUTION COMPOSITION IN GA DEPOSITION ON A GA CATHODE LAYER 67-07 M03-73470
ELECTROMETALLURGY OF CHLORIDE SOLUTIONS 67-08 M01-74476
INFLUENCE OF CHLORIDE IONS ON THE ELECTRODEPOSITION OF ZINC AND CADMIUM IN THE PRESENCE OF SURFACE-ACTIVE SUBSTANCE 67-08 M03-74480
DTERMINING THE MOLAR RATIO OF NAP..AlF3, IN ELECTROLYTES OF ALUMINUM ELECTROLYZERS CONTAINING MAGNESIUM CHOLORIDE 67-08 M03-75091
LITHIUM FLUROIDE-A NECESSARY ELECTROLYTE COMPONENET OF ALUMINUM CELLS 67-08 M03-75092
GALVANIC NICKEL PLATING 67-08 M12-75100
THE COPPER SULFAMATE BATH 67-08 M12-75502
THE EFFECT OF THE THROWING POWER OF SN-PB ELECTROLYTES ON THE UNIFORMITY OF LAYER THICKNESS IN PRODUCTION ELECTROPLATING 67-08 M12-75503
METAL FINISHING GUIDEBOOK DIRECTORY FOR 1967

67-08 M12-76203
ELECTROPOLISHING NIOBIUM 67-08 M13-75299
A NEW ELECTROLYTE FOR ELECTROCHEMICAL MACHINING. PT. 1. DEVELOPMENTAL STUDIES 67-09 M08-77907
A NEW ELECTROLYTE FOR ELECTROCHEMICAL MACHINING. PT. 2. NATURE OF THE ELECTROLYTE 67-09 M08-77908
EVALUATION OF THE CONCENTRATION CHANGES NEAR THE ELECTRODES IN ELECTROLYSIS WITH NATURAL CONVECTION 67-10 M03-79945
ELECTROLYTIC GOLD DEPOSITS 67-10 M12-79702
A NEW ELECTROLYTE FOR ELECTROCHEMICAL MACHINING. PT. 2. NATURE OF THE ELECTROLYTE 67-11 M08-80829
ELECTROLYTIC NICKEL COATING AT HIGH CURRENT DENSITIES 67-11 M12-81285
EFFECT OF ASYMMETRIC ALTERNATING CURRENT ON THE LEVELING OF NICKEL DEPOSITS DURING ELECTROLYSIS 67-11 M12-81286
ELECTRODEPOSITION OF CADMIUM FROM POLYETHYLENE-POLYAMINE ELECTROLYTES 67-11 M12-81287
HARD ANODIC OXIDE FILMS ON ALUMINUM WITH IMPROVED ELECTROINSULATION PROPERTIES 67-11 M12-81291
DISSOLUTION OF MANGANESE IN ACID ELECTROLYTES 67-11 M15-81280
EFFECT OF CNS-IONS ON THE ANODIC BEHAVIOR OF KH18N10T STEEL IN SULFURIC ACID AND SOME POSSIBILITIES OF MODELING SYSTEMS WITH A PASSIVATING ANODE 67-11 M18-81281

ELECTROLYTES, CHEMICAL ANALYSIS
THE DETERMINATION OF SULFATE IN CHROMIUM-PLATING BATHS 67-01 M19-58439
ANALYSIS OF GOLD ALLOY PLATING SOLUTIONS 67-05 M12-68807
RAPID ANALYSIS IN ELECTROLYTIC OPERATIONS 67-06 M12-72156
SOME PECULIARITIES OF THE ELECTRODEPOSITION OF LEAD FROM CHLORIDE SOLUTIONS IN THE COMPACT AND POWDERED FORMS 67-08 M03-74487
INFLUENCE OF NEUTRAL SALTS ON THE QUALITY OF SILVER COATINGS DEPOSITED FROM CYANIDE ELECTROLYTES 67-11 M12-81298

ELECTROLYTES, CHEMICAL COMPOSITION
STABILITY OF ELECTROLESS CHEMICAL COPPER-PLATING SOLUTIONS 67-11 M12-81289

ELECTROLYTES, CORROSION
CORROSION OF ELECTROPRECIPITATED ANTIMONY AND SOME OTHER ANODE MATERIALS IN SULFIDE-ALKALI ELECTROLYTE 67-11 M18-81295

ELECTROLYTES, CORROSION ENVIRONMENTS
CORROSION RESISTANCE OF TIN IN HALIDE ELECTROLYTES USED FOR TINPLATING 67-04 M18-67292

ELECTROLYTES, REACTIONS /CHEMICAL/
INFLUENCE OF CHLORIDE IONS ON THE RATE OF THE ELECTRODE PROCESSES UNDER CONDITIONS OF ADSORPTION OF ADDITIVES ON THE ELECTRODES 67-08 M03-74477
ELECTROLYTIC MANGANESE AND ELECTROLYSIS OF CHLORIDES 67-08 M03-74478

ELECTROLYTES, REFINING
AUTOMATION OF A LABORATORY INSTALLATION FOR EXTRACTION CLEANING OF NICKEL ELECTROLYTE 67-02 M03-62047
DECOPPERING CHLORIDE NICKEL AND COBALT ELECTROLYTES BY MEANS OF ION EXCHANGE 67-04 M03-67524
DECOPPERING AND DELEADING CADMIUM SOLUTIONS 67-04 M03-67525
CEMENTATION OF CO FROM ZINC SOLUTIONS 67-05 M03-68957
AUTOMATIC SEPARATION OF CU FROM NICKEL ELECTROLYTE IN FLUID BED CEMENTATORS 67-07 M03-73410
CATHODIC PROCESS IN THE ELECTROLYSIS OF SOLUTIONS OF MANGANESE CHLORIDE 67-08 M03-74479
EXTRACTION OF LEAD AND ZINC FROM AQUEOUS COBALT SOLUTIONS BY MEANS OF IONITES 67-08 M03-75205
SEPARATION OF LEAD IMPURITY FROM NICKEL ELECTROLYTE 67-10 M03-79130
REMOVAL OF COBALT FROM ZINC ELECTROLYTES BY EXTRACTION 67-12 M03-82488
METHOD OF REMOVING ORGANIC SUBSTANCES FROM NICKEL ELECTROLYTES 67-12 M03-83326

ELECTROLYTES, THROWING POWER
THROWING POWER OF CUSO4-5H2O-H2SO4-H2O 67-01 M12-58707

ELECTROLYTES, WETTABILITY
WETTABILITY AND PITTING FORMATION ON CATHODE NICKEL 67-06 M03-72106

ELECTROLYTIC ANALYSIS
THE ELECTROCHEMICAL MEASUREMENT OF THE ACTIVITY AND DIFFUSION OF OXYGEN IN METALS WITH ZIRCONIUM DIOXIDE AS THE SOLID ELECTROLYTE 67-02 M14-60825
SOLID-STATE ELECTROMIGRATION OF IMPURITIES IN CERIUM METAL 67-04 M03-66887
ON THE FORMATION OF AL PLUS IONS DURING THE ANODIC DISSOLUTION OF ALUMINUM 67-06 M14-72191
THERMODYNAMIC INTERACTIONS AND LIQUIDUS PHASE BOUNDARIES IN THE LEAD CORNER OF THE PB-ZN-AG AND PB-ZN-AU SYSTEMS 67-12 M15-82754

ELECTROLYTIC BRIGHTENING
SEE ELECTROPOLISHING

ELECTROLYTIC CELL LININGS
SOME PROBLEMS IN ALUMINIUM REDUCTION FURNACE DESIGN 67-12 M03-83079

ELECTROLYTIC CELLS
USE OF THE CONTENT OF ANODIC GASES FOR CONTROL OF THE CURRENT EFFICIENCY IN ALUMINUM REDUCTION CELL 67-02 M03-60539
EFFECT OF ADDITIONS OF NACL INTO THE ELECTROLYTE OF ALUMINUM BATHS ON ANODE CONSUMPTION AND COMPOSITION OF ANODE GASES 67-02 M03-61718
DEVELOPMENT AND TEST OF MECHANIZED MAGNESIUM ELECTROLYZERS WITH UPPER LEAD-IN OF ANODES 67-02 M03-62052
SINTERING AND PREBAKING OF ELECTRODE CHARGE 67-02 M03-62053
ELECTROLYZER FOR PREPARATION OF HYPERFINE POWDERY COPPER 67-02 M09-59613
ELECTROLYZER FOR THREE-LAYER REFINING OF MAGNESIUM ALLOY SCRAP AND WASTES AND MAGNESIUM RAW SOURCE MATERIALS 67-04 M03-66960
STUDY OF ELECTRICAL FIELD IN CATHODE METAL OF ALUMINUM ELECTROLYZERS 67-04 M03-66970
SINGULARITIES OF HEAT TRANSFER IN AN ALUMINUM ELECTROLYZER 67-04 M03-66971
INDUSTRIAL TESTS ON THE INTENSIFICATION OF MAGNESIUM ELECTROLYZERS WITH SIDE ANODE SUPPLY 67-04 M03-66972
UNDULATION OF MOLTEN METAL IN ALUMINUM ELECTROLYSIS TANKS 67-04 M03-67527
STARTING UP MAGNESIUM ELECTROLYZERS AT A FULL LEVEL OF ELECTROLYTE 67-05 M03-68230
RELATIONSHIP BETWEEN DISTRIBUTION OF ANODIC CURRENT DENSITY AND FORM OF INTERPOLAR GAP IN INDUSTRIAL ALUMINUM BATHS 67-05 M03-68961
EFFECT OF CARBON OXIDATION INHIBITORS ON THE BEHAVIOR OF THE CARBON ANODE DURING ELECTROLYSIS OF ALUMINUM 67-05 M03-69537
METHOD OF FEEDING MAGNESIUM ELECTROLYZERS WITH RAW MATERIAL 67-06 M03-70143
ELECTRICAL RESISTANCE OF THE SHAFT-ANODE CONTACT AND VOLTAGE LOSS IN SELF-BAKING ANODES 67-06 M03-71308
CALCULATION METHOD FOR DETERMINATION OF FLUORINE BALANCE DURING ELECTROLYSIS OF ALUMINUM 67-06 M03-71309
INDUSTRIAL TESTS ON THE USE OF LISTVYANSK ANTHRACITE TO LINE HEARTHS OF ALUMINUM ELECTROLYZERS 67-06 M03-71353
HIGH-PURITY TITANIUM ELECTROWON FROM TITANIUM TETRACHLORIDE 67-06 M03-71386
EFFECT OF FERROMAGNETIC CONSTRUCTION ELEMENTS ON THE MAGNETIC FIELD IN THE MELTING ZONE OF LARGE ALUMINUM-ELECTROLYSIS CELLS 67-07 M03-72783
A RAPID SOLID-ELECTROCHEMICAL METHOD FOR STUDYING HIGH-TEMPERATURE DIFFUSION IN METALS 67-07 M14-73456
THE DETERMINATION OF OPTIMUM CURRENT INTENSITIES FOR BITTERFELD ELECTROLYTIC CELLS 67-08 M03-74355
ELECTROREFINING OF METALS IN FUSED MEDIA 67-08 M03-74387
DEGREE OF COKE CALCINATION IN MANUFACTURE OF ANODE MATERIAL 67-08 M03-75093
HYDRODYNAMIC CONDITIONS AND THEIR INFLUENCE ON GAS CONTENT AND CONDUCTIVITY OF ALUMINUM ELECTROLYTE 67-08 M03-75207
SOME PROBLEMS OF ANODIC DEPOLARIZATION 67-08 M03-75443
INFLUENCE OF ATMOSPHERIC TEMPERATURE ON PERFORMANCE OF LARGE-CAPACITY ALUMINUM ELECTROLYTIC CELLS 67-11 M03-80753
MACHINE FOR DRIVING IN ANODE SHAFTS OF ALUMINUM ELECTROLYTIC CELLS WITH LATERAL CURRENT SUPPLY 67-11 M03-81219
ALUMINUM ELECTROLYSIS. --HIGH-DUTY ALUMINUM

ELECTROLYTIC CELLS
ELECTROLYTIC CELLS WITH UPPER CURRENT SUPPLY-- 67-11 M03-81226
PRODUCTION OF NEW TYPES OF CARBON RAW MATERIAL FOR ALUMINUM AND ELECTRODE INDUSTRY 67-11 M03-81435
THE BOWING OF THE METAL SURFACE IN ALUMINIUM ELECTROLYSIS FURNACES 67-12 M03-81967
POWER FOR ALUMINIUM PRODUCTION--MODERNIZATION OF A RECTIFIER INSTALLATION IN SPAIN 67-12 M03-82070
INFLUENCE OF ELECTROLYTE ADSORPTION ON PHYSICAL AND CHEMICAL PROPERTIES OF CARBON BLOCKS 67-12 M03-83021
ELECTROLYTIC CELLS, AUTOMATION
INFLUENCE OF CURRENT INSTABILITY IN A SERIES ON THE PERFORMANCE OF ALUMINUM ELECTROLYTIC CELLS 67-07 M03-73416
ELECTROLYTIC CELLS, DESIGN
ELECTROLYTIC TIN PLATING IN FUSED SALT BATH 67-04 M12-67289
ELECTROLYZER FOR REMOVING TIN FROM TIN SCRAP OR FOR PRECIPITATING TIN FROM SOLUTIONS BY ELECTROLYSIS WITH NONCONSUMABLE ANODES 67-12 M03-83327
ELECTROLYTIC CELLS, ELECTRIC POTENTIAL
EFFECT OF VARIOUS FACTORS ON THE CONTINUOUS OSCILLATION OF THE WORKING VOLTAGE OF A COMMERCIAL ALUMINUM BATH 67-02 M03-62048
ELECTROLYTIC CELLS, MAGNETIC PROPERTIES
COMPUTER CALCULATION OF MAGNETIC EFFECTS IN THE BATH OF ALUMINUM CELLS 67-11 M03-81337
ELECTROLYTIC CELLS, MAINTENANCE
SELF-PROPELLED ROUND-ABOUT CLEANER OF STEEL PINS 67-09 M03-76809
ELECTROLYTIC CELLS, MATERIALS
INFLUENCE OF BAKING TEMPERATURE ON ELECTRICAL AND THERMOELECTRICAL PROPERTIES OF PETROLEUM COKE 67-02 M15-59194
STUDY OF THE PROCESS OF DEGASSING CARBON BLACK-PITCH COMPOSITIONS DURING ROASTING 67-05 M03-69536
ELECTROLYTIC CELLS, SERVICE TIME
CONSUMPTION OF ANODE MASS IN ELECTROLYSIS OF ALUMINUM 67-02 M03-61612
ELECTROLYTIC CELLS, STRUCTURAL MATERIALS
TESTING NEW MATERIALS FOR CATHODE LEADS OF ALUMINUM ELECTROLYTIC CELLS 67-08 M03-75209
CARBON PACKING FOR ELECTROLYTIC CELLS RAMMED IN AT A TEMPERATURE ABOVE 15 C 67-09 M20-76814
HIGH-STABILITY REFRACTORIES FOR MAGNESIUM CHLORINATORS AND ELECTROLYTIC CELLS 67-10 M05-79352
SILICOCARBIDE REFRACTORIES ON COMPLEX BASE OF SI2ON, SIC AND SI3N4 67-10 M05-79353
ELECTROLYTIC CLEANING
SEE ELECTROCHEMICAL CLEANING
ELECTROLYTIC DEBURRING
SEE DEBURRING
ELECTROCHEMICAL MACHINING
ELECTROLYTIC DEPOSITION
SEE ELECTRODEPOSITION
ELECTROLYTIC ETCHING
DISTINGUISHING BETWEEN IRON CARBIDE AND IRON PHOSPHIDE BY ETCHING 67-01 M13-57385
ELECTROLYTIC ETCHING OF ALLOYED STEEL WELDINGS 67-01 M13-58398
METHOD OF EXPOSING THE MICROSTRUCTURE OF MANGANESE ALLOYS 67-02 M13-58830
ETCHING OF COPPER AND ITS ALLOYS 67-03 M13-65041
METHOD OF REVEALING THE MICROSTRUCTURE OF MANGANESE-BASE ALLOYS 67-04 M13-68076
NONDESTRUCTIVE METALLOGRAPHIC TECHNIQUES AND APPLICATIONS 67-05 M13-68301
TOWARD A METHOD OF MICROFRACTOGRAPHIC STUDY OF STAINLESS STEEL 67-05 M13-69631
A SIMPLE METHOD OF PREPARING SILICON SPECIMENS 67-05 M13-69632
METHODS OF LOCATING DISLOCATIONS IN TRANSFORMER STEEL 67-06 M13-70344
HOW TO DISTINGUISH IRON CARBIDE FROM IRON NITRIDES BY ETCHING 67-07 M13-72677
A SIMPLE METHOD OF PREPARING THIN METAL FOILS FOR TRANSMISSION ELECTRON MICROSCOPY 67-07 M13-73210
HOW TO DIFFERENTIATE BETWEEN IRON CARBIDE AND IRON PHOSPHIDE BY ETCHING 67-07 M13-73258
SUPPLEMENT ON THE ELECTROLYTIC ETCHING OF PRIMARY STRUCTURES 67-08 M13-74943
IMMERSED DOUBLE-JET TECHNIQUE FOR ELECTROTHINNING TUNGSTEN FOR TRANSMISSION ELECTRON MICROSCOPY 67-10 M13-80000
EXAMINATIONS ON ELECTROLYTIC CONDITIONS FOR ISOLATING AND ETCHING INTERMETALLIC COMPOUNDS IN ALLOYS 67-11 M13-80952
ELECTROLYTIC GRINDING
AN INVESTIGATION OF ELECTROLYTIC GRINDING 67-01 M08-58426
EFFECTS OF ECMR ON MECHANICAL PROPERTIES OF METAL 67-01 M08-58686
NINE METHODS FOR DIFFICULT-TO-IMPOSSIBLE JOBS 67-03 M08-65399
STUDY ON ELECTROLYTIC MACHINING PROCESS. PT. 9. EFFECT OF INHIBITORS IN SODIUM CHLORIDE SOLUTION ON THE SURFACE FINISH OF WORK MACHINED BY DIRECT CURRENT 67-05 M08-69281
THE EFFECT OF TOOLS AND WORKING CONDITIONS ON THE BOUNDARY ZONES OF HARDENED STEELS AND CARBIDES WITH CONVENTIONAL AND ELECTROLYTIC GRINDING 67-06 M08-70045
INVESTIGATION OF THE ELECTROLYTIC VERTICAL PLANE GRINDING OF CARBIDE TOOLS 67-06 M08-70451
ELECTROLYTIC CONTOUR GRINDING 67-07 M08-72430
THE INFLUENCE OF TOOLS AND OF WORKING CONDITIONS IN CASE HARDENED STEELS AND HARD METALS IN CONVENTIONAL AND ELECTROLYTIC GRINDING 67-08 M08-75845
ELECTROLYTIC GRINDING MOVES INTO PRODUCTION 67-08 M08-76178
NOW--GRAPHITE-WHEEL ELECTROLYTIC GRINDING 67-09 M08-77492
AN EVALUATION OF THE ELECTROLYTIC GRINDING OF TUNGSTEN CARBIDE 67-09 M08-77549
AN EVALUATION OF THE ELECTROLYTIC GRINDING OF TUNGSTEN CARBIDE. PT. 2 67-10 M08-79402
ELECTROCHEMICAL GRINDING OF HARD METALS 67-12 M08-82774
BASICS AND DEVELOPMENT IN ELECTROCHEMICAL MACHINING 67-12 M08-82777
NEW DEVELOPMENTS IN GRAPHITE WHEEL ELECTROLYTIC GRINDING 67-12 M08-82907
ELECTROLYTIC MACHINING
SEE ELECTROCHEMICAL MACHINING
ELECTROLYTIC PICKLING
SEE ELECTROCHEMICAL CLEANING
PICKLING
ELECTROLYTIC POLISHING
SEE ELECTROPOLISHING
ELECTROLYTIC POLISHING /METALLURGY/
SEE ELECTROPOLISHING
METALLOGRAPHY
ELECTROMAGNETIC ABSORPTION
NUCLEAR ZEEMAN EFFECT OF 119SN DISSOLVED IN CHROMIUM 67-02 M16-60592
ELECTROMAGNETIC FIELDS
THE APPLICATION OF NONSTATIONARY ELECTROMAGNETIC FIELDS IN THE CONTINUOUS CASTING OF STEEL 67-02 M04-59135
ELECTROMAGNETIC INDUCTION
MAGNETIC DEFORMATION OF CYLINDRICAL WORKPIECES 67-08 M15-75675
ELECTROMAGNETIC ISOTOPE SEPARATION
SEE ISOTOPE SEPARATION
ELECTROMAGNETIC RADIATION
SEE ELECTROMAGNETIC WAVES
ELECTROMAGNETIC STIRRING
OPERATING PATTERNS OF ELECTROMAGNETIC STIRRERS FOR MOLTEN STEEL 67-11 M04-81430
ELECTROMAGNETIC STIRRER FOR MOLTEN STEEL 67-11 M04-81605
ELECTROMAGNETIC TESTING
NONDESTRUCTIVE TESTING OF CARBURIZATION DEPTH 67-03 M19-65734
METHOD FOR MEASURING ROTATIONAL CORE LOSSES IN SILICON-IRON SHEETS 67-04 M19-67423
TUBE CONTROL BY ELECTRONIC SOUND 67-05 M19-68929
THE APPLICATION OF NONDESTRUCTIVE COATING THICKNESS-MEASURING METHODS 67-07 M12-73821
THE MAGNETOINDUCTIVE TESTING OF W AND MO WIRES AND RODS 67-07 M19-73195
CONTROL OF HEAT TREATMENTS BY ELECTROMAGNETIC METHODS 67-12 M19-83233
ELECTROMAGNETIC WAVES
SEE ALSO BREMSSTRAHLUNG
GAMMA RAYS
INFRARED RADIATION
MICROWAVES

POLARIZED LIGHT
THERMAL RADIATION
X RAYS
EFFECT OF ELECTROMAGNETIC RADIATION 67-05 M15-68994
NEW MEASUREMENTS OF THE ELECTROMAGNETIC ABSORPTION SPECTRUM OF SUPERCONDUCTING LEAD 67-06 M16-70637
HOW ELECTROMAGNETIC STIRRING OF SOLIDIFYING METAL AFFECTS THE CHEMICAL HETEROGENEITY AND MACROSTRUCTURE OF THE INGOT 67-11 M04-81410

ELECTROMAGNETISM
EFFECT OF TANTALUM CONCENTRATION ON THE LONGITUDINAL GALVANOMAGNETIC EFFECT OF ALLOYS CLOSE TO THE COMPOSITION NI3FE 67-01 M15-58062
THEORY OF THE GALVANOMAGNETIC PROPERTIES OF MAGNESIUM AND ZINC 67-02 M15-60766
INVESTIGATION OF GALVANOMAGNETIC PROPERTIES OF HYDROGENATED PALLADIUM SINGLE CRYSTALS 67-02 M15-61118
PLANE HALL EFFECT IN FERROMAGNETIC METALS 67-02 M15-61119
THE EFFECT OF A MAGNETIC FIELD ON THE HEAT CONDUCTIVITY OF ER POLYCRYSTALS 67-03 M15-65232
THE TEMPERATURE AND FIELD DEPENDENCE OF THE GALVANOMAGNETIC PROPERTIES OF ALUMINUM AND INDIUM 67-03 M15-65366
THE TEMPERATURE AND FIELD DEPENDENCE OF THE GALVANOMAGNETIC PROPERTIES OF LEAD AND THE INFLUENCE OF THE SAMPLE SIZE 67-03 M15-65367
GALVANOMAGNETIC EFFECTS IN SINGLE-CRYSTAL ZRB2 67-03 M16-65393
DEPENDENCE OF THE TRANSVERSE HALL EFFECT IN P-TYPE SILICON ON THE MAGNETIC FIELD INTENSITY 67-03 M16-65634
ELECTRICAL AND GALVANOMAGNETIC PROPERTIES OF SINGLE CRYSTAL INSB DENDRITES 67-03 M16-65770
STUDY OF MAGNETIC RESISTANCE OF ORIENTED HEXAGONAL FERRITES 67-04 M15-66485
GALVANOMAGNETIC PROPERTIES OF SURFACE LAYERS IN INDIUM ARSENIDE 67-04 M16-66764
GALVANOMAGNETIC EFFECTS AND BAND STRUCTURE OF CDSB 67-04 M16-66765
NONLINEAR GALVANOMAGNETIC EFFECTS DUE TO HOT ELECTRONS IN N-TYPE INSB IN THE QUANTUM LIMIT 67-04 M16-66772
GALVANOMAGNETIC STUDIES OF SN-DOPED BI 67-04 M16-66795
GALVANOMAGNETIC EFFECTS IN CADMIUM ANTIMONIDE 67-04 M16-67470
BEHAVIOR OF GALVANOMAGNETIC COEFFICIENTS OF BISMUTH FILMS IN THE QUANTUM SIZE REGION 67-05 M15-69100
GALVANOMAGNETIC EFFECTS AND MAGNETIC SUSCEPTIBILITY OF TIN-DOPED BISMUTH CRYSTALS 67-05 M16-69752
GALVANOMAGNETIC AND THERMOMAGNETIC EFFECTS IN STRAINED N-GE 67-06 M16-70504
ANOMALOUS ELECTROMAGNETIC MICROWAVE ABSORPTION OF SUPERCONDUCTING ALLOYS IN A STATIC MAGNETIC FIELD 67-06 M16-71994
THE EFFECT OF ELECTROMAGNETIC FIELDS ON THE EVAPORATION OF METALS 67-07 M15-73496
GALVANOMAGNETIC PROPERTIES OF SINGLE-CRYSTAL ANTIMONY BETWEEN 77 AND 273 K 67-07 M16-74060
DE HAAS-VAN ALPHEN AND GALVANOMAGNETIC EFFECT IN BI AND BI-PB ALLOYS 67-08 M16-74666
GALVANOMAGNETIC EFFECTS IN IRON WHISKERS 67-08 M16-74946
HIGH-FIELD GALVANOMAGNETIC PROPERTIES OF NIOBIUM AND TANTALUM 67-10 M15-79415
REGARDING THE RELATIONSHIP BETWEEN TRANSFORMER STEELMAKING CONDITIONS AND ELECTROMAGNETIC LOSSES 67-10 M15-79861
HELICON OSCILLATIONS IN HGSE 67-10 M16-79368
THERMOELECTRIC AND GALVANOMAGNETIC MEASUREMENTS ON --BI2TE3--5--BI2SE3--1--SB2TE3--18 67-11 M15-80121
ELECTROMAGNETIC AND THERMOMAGNETIC EFFECTS IN CADMIUM ARSENIDE 67-11 M15-80611
ELECTRICAL PROPERTIES OF SEMICONDUCTOR SURFACES 67-12 M15-83227

ELECTROMAGNETISM, IMPURITY EFFECTS
GALVANOMAGNETIC STUDIES OF SN-DOPED BI. PT. 1. POSITIVE FERMI ENERGIES 67-05 M15-69815

ELECTROMAGNETISM, STRESS EFFECTS
ELASTOGALVANOMAGNETIC EFFECTS IN N-TYPE GE 67-06 M16-70505

ELECTROMAGNETS
SEE ALSO SOLENOIDS

ELECTROMAGNETS, WELDING
BUILDUP WITH A MELTED FILLER METAL 67-04 M12-66572
BUILDING UP BY POURING MOLTEN FILLER METAL ONTO THE WORK 67-07 M12-73429

ELECTROMECHANICAL TRANSDUCERS
SEE TRANSDUCERS

ELECTROMELTING
SEE ELECTRIC ARC MELTING

ELECTROMETALLURGY
ELECTROMETALLURGY OF CHLORIDE SOLUTIONS 67-08 M01-74476
INFLUENCE OF CHLORIDE IONS ON THE RATE OF THE ELECTRODE PROCESSES UNDER CONDITIONS OF ADSORPTION OF ADDITIVES ON THE ELECTRODES 67-08 M03-74477
PORTEVIN LECTURE--WELDING AND SPECIAL ELECTROMETALLURGY 67-12 M01-83212

ELECTROMOTIVE FORCE
SEE ELECTRIC POTENTIAL

ELECTROMOTIVE FORCE SERIES
SEE ELECTRODE POTENTIALS

ELECTROMOTIVE SERIES
SEE ELECTRODE POTENTIALS

ELECTRON BEAM CUTTING
SEE ALSO ELECTRON BEAM MACHINING
STUDIES OF THE PRECISION AND REPRODUCIBILITY OF ELECTRON BEAM CUTTING 67-02 M08-60997
THERMAL ELECTRON BEAM MACHINING OF DIAMOND AND ALUMINA CERAMICS 67-10 M08-79507

ELECTRON BEAM DRILLING
SEE ELECTRON BEAM CUTTING

ELECTRON BEAM FURNACES
DEVELOPMENT OF VACUUM FURNACES FOR ELECTRON BEAM MELTING 67-02 M06-58991
PRODUCTION OF VERY PURE STEELS IN ELECTRON BEAM MULTIPLE CHAMBER FURNACES, THEIR PROPERTIES AND APPLICATIONS 67-02 M06-60048
VACUUM METALLURGY, PROCEDURES AND EQUIPMENT 67-02 M06-61651
THE MULTIPLE-CHAMBER ELECTRON BEAM FURNACES OF THE --EAST GERMAN-- HENNINGSDORF WORKS AND THEIR APPLICATIONS 67-07 M03-74273
EXAMPLES OF APPLICATION OF THE ELECTRON BOMBARDMENT FURNACE IN METALLURGICAL CHEMISTRY 67-09 M03-77831
AN ELECTRON BEAM MULTICHAMBER FURNACE OF 1700 KW 67-09 M04-77216
INVESTIGATION OF THE TEMPERATURE GRADIENTS IN THE MELTING OF BILLETS IN A MULTICHAMBER ELECTRON BEAM FURNACE BY USE OF A MATHEMATICAL MODEL 67-09 M04-77217
PROCESS CONTROL IN THE REMELTING PROCESS IN A 200-KW ELECTRON BEAM MULTICHAMBER FURNACE 67-09 M04-77218
METALLURGICAL DETAILS IN THE REMELTING OF S6-5-2 HIGH-SPEED STEEL IN A 200-KW ELECTRON BEAM MULTICHAMBER FURNACE 67-09 M04-77220
METALLURGICAL PHENOMENA TAKING PLACE DURING MELTING IN THE ELECTRON BEAM FURNACE, IN THE ELECTROSLAG MELTING INSTALLATION AND IN THE PLASMA FURNACE 67-10 M04-79182
SEPARATION OF RARE EARTH METALS AND IRON BY DISTILLATION IN THE ELECTRON BOMBARDMENT FURNACE 67-12 M03-81816

ELECTRON BEAM HEATING
CURRENT STATUS AND DEVELOPMENT TRENDS IN ELECTRON BEAM TECHNOLOGY 67-02 M01-60047
ELECTRON BEAM EVAPORATION TO PROMOTE WETTING BY LIQUID METALS 67-02 M15-61598
COATING BY THE ELECTRON BEAM 67-03 M12-65480
APPARATUS FOR METALLIZING AND ELECTRON BEAM EVAPORATION 67-06 M12-72313
LARGE SCALE ELECTRON-BEAM PROCESSES 67-06 M16-72053
ROLE OF THE INITIAL STRUCTURE IN THE ELECTRON BEAM HEATING OF STEEL 67-07 M14-72671
CONTINUOUS HIGH-VACUUM ELECTRON BEAM PROCESSING OF STRIP 67-09 M10-77559
APPARATUS FOR HEATING METAL WITH AN ELECTRON BEAM 67-10 M19-80065
INVESTIGATION OF THE DEPOSITION OF MOLYBDENUM CARBIDE FILMS FROM MOLYBDENUM HEXACARBONYL USING AN ELECTRON BEAM 67-11 M12-81052

ELECTRON BEAM HEATING

AN APPARATUS FOR SPRAY COATING WITH AN ELECTRON BEAM VAPORISER 67-11 M12-81585
DEVELOPMENT OF A TECHNIQUE OF PREPARATION OF LA, GD, AND Y HEXABORIDES USING ELECTRON-BEAM HEATING 67-12 M09-82781
ELECTRON BEAM INSTALLATION FOR VACUUM EVAPORATION OF METALLIC AND NONMETALLIC MATERIALS 67-12 M12-81893
ESTIMATION OF TEMPERATURE RISE IN ELECTRON BEAM HEATING OF THIN FILMS 67-12 M15-83274

ELECTRON BEAM MACHINING

ELECTRIC MACHINING METHODS. PT. 3 67-01 M08-58376
NINE METHODS FOR DIFFICULT-TO-IMPOSSIBLE JOBS 67-03 M08-65399
AN ELECTRON-OPTICAL MICROMACHINING APPARATUS--AN INSTALLATION FOR THE THERMAL AND NONTHERMAL ELECTRON BEAM MACHINING WITH ELECTRON-OPTICAL REPRODUCTION OF AN INTERNAL PATTERN 67-03 M08-65441
NEWER TECHNIQUES IN THE MACHINING OF METAL COMPONENTS 67-04 M08-67907
ELECTRON BEAM MACHINING TAMES TOUGH MATERIALS 67-08 M08-75327
DRILLING OF DIAMONDS USING ELECTRON BEAMS 67-10 M08-78867

ELECTRON BEAM MELTING

AN APPARATUS FOR ELECTRON BEAM FLOATING ZONE REFINING 67-01 M03-58693
FLOATING-ZONE REFINING BY ELECTRON BOMBARDMENT 67-01 M14-57982
CURRENT STATUS AND DEVELOPMENT TRENDS IN ELECTRON BEAM TECHNOLOGY 67-02 M01-60047
INFLUENCE OF THE CONDITIONS OF PRODUCTION OF HAFNIUM ON ITS MECHANICAL PROPERTIES AND CORROSION RESISTANCE 67-02 M03-60657
DEVELOPMENT OF VACUUM FURNACES FOR ELECTRON BEAM MELTING 67-02 M06-58991
VACUUM METALLURGY, PROCEDURES AND EQUIPMENT 67-02 M06-61651
THE ELECTRON BOMBARDMENT SMELTING FURNACE OF LA CIE PECHINEY 67-03 M03-65194
THE FLOATING ZONE MELTING OF REFRACTORY METALS BY ELECTRON BEAM BOMBARDMENT. PT. 6. THE ELECTRON BEAM MELTING OF REFRACTORY METALS 67-05 M03-69855
THE ELECTRON BEAM MELTING OF TUNGSTEN. PT. 8. THE ELECTRON BEAM MELTING OF REFRACTORY METALS 67-05 M14-69857
EFFECTS OF SOME ADDITIONAL ELEMENTS ON THE DUCTILITY OF ELECTRON BEAM MELTED MOLYBDENUM INGOTS 67-06 M17-70787
DISTRIBUTION OF IMPURITIES IN ELECTRON BEAM MELTED INGOTS 67-07 M03-73420
ELECTRON BEAM VAPORIZATION OF BERYLLIUM 67-07 M03-73738
THE MULTIPLE-CHAMBER ELECTRON BEAM FURNACES OF THE --EAST GERMAN-- HENNINGSDORF WORKS AND THEIR APPLICATIONS 67-07 M03-74273
THE ELECTRON BEAM MELTING OF TITANIUM 67-08 M03-74356
ELECTRON BEAM MELTING OF COLUMBIUM-BASE AND TITANIUM-BASE ALLOYS 67-08 M03-75212
THE ELECTRON BEAM MELTING OF SOFT MAGNETIC FERROUS MATERIALS 67-08 M04-74444
COMPARATIVE INSPECTION OF THE REMELTING CONDITIONS IN THE VACUUM ARC FURNACE AND THE ELECTRON BEAM MULTICHAMBER FURNACE 67-08 M04-75039
MELTING REFRACTORY METALS IN THE HARDENED-SLAG LINED CRUCIBLE OF AN ELECTRON BEAM INSTALLATION 67-09 M03-77125
THE PRESENT STATE OF REMELTING HIGH-QUALITY STEEL BY SPECIAL METHODS 67-09 M04-77214
MODIFICATION OF THE PURITY LEVEL OF ROLLER BEARING STEEL THROUGH REMELTING AND SPECIAL METHODS 67-09 M04-77226
MELTING AND CASTING REFRACTORY OR REACTIVE METALS BY PLASMA ELECTRON BEAM 67-09 M06-78223
THE AUSTENITIC GRAIN GROWTH OF SPECIALLY REMELTED STEELS UNDER CERTAIN CONSIDERATIONS OF GROWTH INHIBITING INFLUENCES 67-09 M14-77227
COLUMBIUM ALLOYS 67-09 M17-77327
TANTALUM ALLOYS 67-09 M17-77328
THERMODYNAMIC CONSIDERATIONS ON MELTING HIGH-PURITY NICKEL AND NICKEL ALLOYS 67-10 M03-78316
ELECTRON-BEAM PURIFICATION OF VANADIUM 67-10 M03-79987
EXPERIMENTAL DETERMINATION OF THE LIQUID MELTING BATH WHEN REMELTING STEEL IN A 200-KW ELECTRON BEAM MULTIPLE-CHAMBER FURNACE 67-10 M04-78315
THE MELTING OF NI-CR BASE ALLOYS IN A HIGH VACUUM 67-11 M03-80842
CHANGES IN VARIOUS MECHANICAL AND SERVICE PROPERTIES THROUGH REMELTING BY SPECIAL METHODS 67-11 M04-80201
METALLURGICAL PROCESSES IN MELTING STEELS IN MULTICHAMBER ELECTRON BEAM FURNACES 67-11 M04-80203
DEOXIDATION STUDIES ON ARMCO IRON IN A MULTICHAMBER ELECTRON BEAM FURNACE 67-11 M04-80204
OUTGASSING OF METAL SURFACES BY ELECTRON BOMBARDMENT 67-11 M04-80424
REFINING AND DEGASSING METAL IN ELECTRON BEAM MELTING 67-11 M04-80855
THE HARDENING BEHAVIOR OF VACUUM MELTED STEELS 67-11 M17-80214
INFLUENCE OF THE MELTING PROCESS ON THE NOTCH TOUGHNESS OF 100 CR 6 STEEL 67-11 M17-80217
METALLURGICAL RECULIARITIES IN THE REMELTING OF HIGH-SPEED STEEL S 6-5-2 IN THE MULTIPLE-CHAMBERED ELECTRON BEAM FURNACE, EMO 200 67-11 M17-80220
CHANGES IN THE MECHANICAL PROPERTIES OF X10NICRWTI36.15 STEEL MELTED IN AN ELECTRIC FURNACE, CAUSED BY REMELTING IN A MULTIPLE-CHAMBER ELECTRON BEAM FURNACE 67-11 M17-80846
ZONE REFINING OF MOLYBDENUM 67-12 M03-82112
SOME FEATURES OF ELECTRON-BEAM ZONE REFINING OF METALS 67-12 M03-82113
COMPARATIVE INVESTIGATION OF THE HOT WORKABILITY OF THE STEEL X 10NICRWTI 36.15 MELTED IN A BASIC ELECTRIC ARC FURNACE AND AFTER REMELTING IN A MULTIPLE-CHAMBER ELECTRON BEAM FURNACE 67-12 M04-82691
EXPERIMENTS IN THE REMELTING OF REFINED FERROCHROME IN A MULTIPLE-CHAMBER ELECTRON BEAM FURNACE 67-12 M04-82693

ELECTRON BEAM MELTING, IMPURITY EFFECTS

PRODUCTION OF VERY PURE STEELS IN ELECTRON BEAM MULTIPLE CHAMBER FURNACES, THEIR PROPERTIES AND APPLICATIONS 67-02 M06-60048

ELECTRON BEAM VACUUM MELTING

SEE ELECTRON BEAM MELTING VACUUM MELTING

ELECTRON BEAM WELDERS

ELECTRON BEAM WELDING 67-10 M11-78797

ELECTRON BEAM WELDING

ELECTRIC MACHINING METHODS. PT. 3 67-01 M08-58376
HIGH PRODUCTION WITH ELECTRON-BEAM WELDING 67-01 M11-57235
VACUUM SHIELDING OF METALS DURING WELDING 67-01 M11-57395
ALL SYSTEMS ARE GO FOR EB WELDING 67-01 M11-57434
CURRENT STATUS AND DEVELOPMENT TRENDS IN ELECTRON BEAM TECHNOLOGY 67-02 M01-60047
NEW WAYS TO UNITE METALS 67-02 M11-59147
SOME APPLICATIONS OF ELECTRON BEAM WELDING 67-02 M11-59813
ELECTRON BEAM WELDING 67-02 M11-60558
POSSIBILITIES AND LIMITATIONS OF ELECTRON BOMBARDMENT WELDING 67-02 M11-60613
WHERE DO WE STAND IN WELDING HIGH STRENGTH STEELS 67-02 M11-61098
NARROW WELDED JOINTS 67-02 M11-61539
ELECTRON BEAM WELDING SOLVES PRODUCTION PROBLEM 67-02 M11-61859
SOME CAUSES FOR DECREASE IN PLASTICITY OF VT15 TI ALLOY WELDED JOINTS AFTER QUENCHING 67-02 M11-62162
ELECTRON BEAM WELDING 67-03 M11-65023
ELECTRON BEAM WELDING OF VT15 TITANIUM ALLOY 67-03 M11-65053
ELECTRON BEAM WELDING 67-03 M11-65723
NEWER TECHNIQUES IN THE MACHINING OF METAL COMPONENTS 67-04 M08-67907
ELECTRON BEAM WELDING OF FINISH-MACHINED PRECISION PARTS WITH CONSIDERATION GIVEN TO DESIGN AND METALLURGICAL INFLUENCE 67-04 M11-66725
APPARATUS FOR ELECTRON BEAM WELDING OF CIRCUMFERENTIAL SEAMS IN PIPES 67-04 M11-66818
SEVERAL USES OF ELECTRON BEAM WELDING 67-04 M11-66882
CAUSES OF REDUCTION IN DUCTILITY OF WELDED JOINTS

IN VT15 ALLOY AFTER QUENCHING
67-04 M11-67169
WELDING DESIGN AND PROCESS MANUAL--ALUMINUM
67-04 M11-67492
ELECTRON BEAM BUTT WELDING OF 5254 ALUMINUM ALLOY PRESSURE VESSEL 67-04 M11-67626
DEVELOPMENTS IN ELECTRON BEAM WELDING
67-04 M11-68054
ELECTRON AND LASER BEAM WELDING--TO DATE AND 1970
67-04 M11-68200
E/B WELDS JOG COMPUTER MEMORY 67-05 M11-68480
FORMING TITANIUM 67-06 M07-71584
NEW DEVELOPMENTS IN ELECTRON-BEAM WELDING
67-06 M11-70236
ELECTRON BEAM WINS WELDING ASSIGNMENT FOR ROCKET ENGINE INJECTOR OF ALUMINUM 67-06 M11-70458
VAPOR-PLATING ALUMINUM ON BERYLLIUM FOR WELDING
67-06 M11-71681
ELECTRON BEAM WELDING OF EI437BU ALLOY TO EI618 ALLOY 67-07 M11-72738
FORD READIES EB WELDER FOR PRODUCTION
67-07 M11-73307
ELECTRON BEAM WELDING OF FUEL ELEMENTS FILLED WITH UO2-PUO2 67-07 M11-73467
THE WELDING OF SAP 67-07 M11-73468
QUALITY IN ELECTRON BEAM WELDING
67-07 M11-73887
ELECTRON BEAM WELDING OF VT15 TITANIUM ALLOY
67-07 M11-73972
PROSPECTS FOR DEVELOPING THE WELDING OF METALS
67-08 M11-75365
ELECTRON BEAM WELDING OF IMPREGNATED CATHODES OF ELECTROVACUUM DEVICES 67-08 M11-75416
THE PRESENT STATE AND THE FUTURE OF MODERN WELDING PROCESSES 67-08 M11-75515
ELECTRON BEAM WELDING AS A PRODUCTION TOOL
67-08 M11-75559
ELECTRON BEAM WELDING DEVELOPMENTS IN U.S.A.
67-08 M11-75563
EXAMINATION OF ELECTRON BEAM WELDS IN 18 PER CENT NI/CO/MO MARAGING STEEL SHEET
67-08 M11-75751
AN EQUATION FOR CALCULATING OPTIMUM WELDING CONDITION IN ELECTRON BEAM WELDING. PT. 7. STUDIES ON ELECTRON BEAM WELDING
67-08 M11-75758
WELDING NUCLEAR FUEL CASINGS 67-08 M11-75800
LASER WELDING MOVES UP A NOTCH 67-08 M11-76063
DEVELOPMENTS IN ELECTRON BEAM WELDING
67-09 M11-76374
ELECTRON BOMBARDMENT WELDING 67-10 M11-78767
WELDING IN MODERN GAS TURBINE ENGINE MANUFACTURE
67-10 M11-78796
COMPARISON OF THE BEHAVIOR OF SEVERAL METALS UNDER THE IMPACT OF THE ELECTRON BEAM OF A WELDING MACHINE 67-11 M11-80245
ELECTRON BEAM WELDING OF D6AC STEEL IN THE HEAT TREATED CONDITION 67-11 M11-80411
POROSITY IN WELD METAL DURING FUSION WELDING OF NIOBIUM ALLOYS 67-11 M11-80549
THE WELDING OF HIGH-STRENGTH STEELS AND SOME OF ITS PROBLEMS 67-11 M11-81131
X-RAY RADIATION IN ELECTRON BEAM WELDING INSTALLATIONS 67-12 M11-81913
THE ELECTRON-BEAM WELDING OF IMPREGNATED CATHODES FOR VACUUM-ELECTRIC DEVICES 67-12 M11-82037
ELECTRON BEAM WELDING OF EI437BU ALLOY TO EI618 ALLOY 67-12 M11-82317
PARAMETERS AFFECTING ELECTRON BEAM WELDING
67-12 M11-82500
INFLUENCE OF ACCELERATED VOLTAGE PULSATIONS ON SEAM PARAMETERS IN ELECTRON BEAM WELDING
67-12 M11-82625
MATERIAL AND WELDING PROBLEMS IN REACTOR CONSTRUCTION WITH EMPHASIS ON ELECTRON-BEAM WELDING 67-12 M11-83147
PROGRESS IN ELECTRON BEAM WELDING
67-12 M11-83228
INVESTIGATION OF THE WELDING OF ZIRCONIUM ALLOYS
67-12 M11-83281

ELECTRON BEAM WELDING, AUTOMATION
ELECTRON BEAM WELDING UNDER VACUUM AND UNDER ATMOSPHERIC PRESSURE 67-08 M11-75038

ELECTRON BEAMS
THICKNESS DETERMINATION OF THIN FILMS BY ELECTRON PROBE MICROANALYSIS 67-04 M19-67263
AN A-C ELECTRON BOMBARDMENT TECHNIQUE FOR VACUUM DEPOSITION OF CARBON 67-07 M12-72809
LUMINESCENCE OF CDS EXCITED BY ELECTRONS OF VARIOUS ENERGIES 67-08 M16-75231
ELECTRON BEAMS ON THE MOVE 67-11 M01-80767

ELECTRON BEAMS, METALLOGRAPHY
SURFACE PREPARATION AND ITS EFFECT ON THE RESULTS OF ELECTRON-BEAM MICROANALYSIS
67-01 M13-58336

ELECTRON BOMBARDMENT
SEE ELECTRON BEAMS
IRRADIATION

ELECTRON CAPTURE
SEE CAPTURE /NUCLEAR/

ELECTRON CONDUCTIVITY
ELECTRONS IN LIQUID METALS 67-03 M16-65934
HIGH FIELD EFFECTS IN N-TYPE INSB
67-04 M16-66774
THE EFFECT OF HYDROSTATIC PRESSURE ON THE TRANSPORT PROPERTIES OF INSB 67-04 M16-67028
STUDIES OF THE ELECTRICAL PROPERTIES OF URANIUM OXIDES. PT. 3. THERMOELECTRIC POWER OF ALPHA-U3O8
67-05 M15-69772
HIGH TEMPERATURE HALL EFFECT IN CUPROUS OXIDE
67-05 M16-69091
CONDUCTIVITY AND FIELD EFFECT OF PURE SILICON CLEAVAGE SURFACES 67-06 M16-70993
EFFECT OF A PERIODIC LATTICE POTENTIAL ON THE OPTICAL PROPERTIES AND OTHER INTEGRAL CHARACTERISTICS OF CUBIC POLYVALENT METALS
67-06 M16-71828
HOT-CARRIER D-C CONDUCTION IN ELEMENTAL SEMICONDUCTORS 67-07 M16-73181
SOME OPTICAL PROPERTIES OF THIN EVAPORATED CD3AS2 FILMS 67-08 M15-75220
EXTERNAL PHOTOEFFECT FROM SENSITIZING DYES ADSORBED ON SEMICONDUCTORS 67-08 M16-75236
MAGNESIUM AS A DONOR IMPURITY IN SILICON
67-10 M15-78447
OPTICAL PROPERTIES OF THE INTERMETALLIC COMPOUNDS AUAL2, AUGA2 AND AUIN2 67-10 M15-78907
LONGITUDINAL MAGNETORESISTANCE AND HALL MOBILITY OF N-TYPE GERMANIUM AT HIGH ELECTRIC FIELDS
67-10 M15-79153
ELECTRON SCATTERING IN NICKEL AT LOW TEMPERATURES
67-10 M16-78732
SIMULTANEOUS DIFFUSION OF GA AND AS INTO SILICON FROM A GAAS SOURCE 67-11 M14-80535
EFFECT OF DIFFUSED OXYGEN AND GOLD ON SURFACE PROPERTIES OF OXIDIZED SILICON
67-11 M15-80507
AN ATTEMPT TO DETERMINE EXPERIMENTALLY THE PHASE VELOCITY OF A HEAT WAVE IN SEMICONDUCTING BISMUTH TELLURIDE AT ROOM TEMPERATURE
67-11 M15-80508
LOW-TEMPERATURE MAGNETORESISTANCE OF N-TYPE GERMANIUM DOPED WITH SMALL AND INTERMEDIATE CONCENTRATIONS OF PHOSPHORUS 67-11 M15-81395
ELECTRONIC AND IONIC CONDUCTIVITY IN NB2O5
67-11 M15-81690
SOLUBILITY EFFECTS OF IMPLANTED IONS IN SEMICONDUCTORS 67-11 M16-81204
EFFECTS OF ELECTRON IRRADIATION ON THE THERMAL CONDUCTIVITY OF N-AND P-TYPE GERMANIUM
67-11 M16-81485
EFFECT OF IMPURITIES ON THE ANISOTROPY OF GRAPHITE CONDUCTIVITY AND GRAPHITIZATION
67-12 M15-81977
TRANSVERSE MAGNETORESISTANCE IN N-TYPE GERMANIUM
67-12 M15-82534
RETROGRADE SOLUBILITY OF LEAD IN N-TYPE PBS
67-12 M15-82853
IRRADIATION DAMAGE IN N-TYPE GERMANIUM AT 4.2 K
67-12 M16-82531
ELECTRONIC EFFECTS IN THE ELASTIC CONSTANTS OF N-TYPE SILICON 67-12 M17-82532

ELECTRON CONDUCTIVITY, IMPURITY EFFECTS
VAPOR PHASE GROWTH AND PROPERTIES OF GAAS GUNN DEVICES 67-06 M14-71149
TRANSITIONAL IMPURITIES IN LIQUID COPPER
67-09 M16-77523
MAGNETIC POLARIZATION OF TRANSITIONAL IMPURITIES IN ALUMINIUM 67-09 M16-77524

ELECTRON DENSITY
LOW-TEMPERATURE SPECIFIC HEAT AND DENSITY OF STATES OF BORONATED GRAPHITE 67-03 M15-65034
BEHAVIOUR OF SELENIUM IN GAAS 67-03 M16-65387
SURFACE STATES ON CLEAN SILICON
67-03 M16-65914
ELECTRON EFFECTIVE MASS IN GALLIUM ARSENIDE AS A FUNCTION OF DOPING 67-04 M16-66755
INTERVALLEY SCATTERING RATE AND HIGH-FIELD ELECTRON

ELECTRON DENSITY

DISTRIBUTIONS IN GAAS 67-04 M16-66781
ANALYSIS OF N-TYPE GAAS WITH ELECTRON-BEAM-EXCITED RADIATIVE RECOMBINATION 67-05 M16-68620
DE HAAS-VAN ALPHEN EFFECT IN ANTIMONY AT VERY LOW TEMPERATURES 67-05 M16-69029
THE EFFECT OF WATER PRESSURE ON THE EXCESS DONOR CONCENTRATION IN GAP GROWN FROM THE VAPOR PHASE IN SILICA TUBES 67-06 M16-71143
INTERPRETATION OF THE ISOMERIC SHIFTS OF THE GAMMA RADIATION OF IMPURITY NUCLEI SN119 AND AU197 IN METALLIC SOLID SOLUTIONS 67-06 M16-71770
EFFECT OF A PERIODIC LATTICE POTENTIAL ON THE OPTICAL PROPERTIES AND OTHER INTEGRAL CHARACTERISTICS OF CUBIC POLYVALENT METALS 67-06 M16-71828
AN APPROXIMATE DENSITY OF STATES CURVE AND ITS RELATION TO THE MEASURED ELECTRICAL RESISTIVITY OF GOLD-PALLADIUM ALLOYS 67-07 M16-73908
INFLUENCE OF CONDUCTION ELECTRONS ON THE LATTICE SPECIFIC HEAT AND ELASTIC MODULI OF ALPHA-PHASE ALLOYS OF THE NOBLE METALS 67-07 M16-73940
RIGID-BAND MODEL OF ALLOYS 67-09 M16-77164
HEATS OF ATOMIZATION AND FORMATION OF A3 B5 COMPOUNDS FROM EXPERIMENTAL DATA ON ELECTRON-DENSITY DISTRIBUTIONS 67-11 M15-80156
OPTICAL PROPERTIES OF INDIUM 67-11 M15-81369
DISTRIBUTION OF ELECTRON DENSITY AND BOND ENERGY IN SEMICONDUCTING COMPOUNDS OF THE A3 B5 TYPE 67-11 M16-80157
ATOMIC SCATTERING OF X-RAYS AND THE ELECTRON DENSITY OF IRON AND SILICON 67-11 M16-80158
ON THE MAGNETIC BEHAVIOR OF MOLTEN B-T-ALLOYS 67-12 M15-82049

ELECTRON DENSITY, IMPURITY EFFECTS

VAPOR PHASE GROWTH AND PROPERTIES OF GAAS GUNN DEVICES 67-06 M14-71149

ELECTRON DENSITY, RADIATION EFFECTS

INTERPRETATION OF ISOMER SHIFTS OF GAMMA RADIATION OF IMPURITY NUCLEI SN119 AND AU197 IN METALLIC SOLID SOLUTIONS 67-06 M16-71928

ELECTRON DIFFRACTION

ELECTRON DIFFRACTION STUDIES OF THE EPITAXY OF CU SINGLE CRYSTALS. PT. 1. EPITAXY OF EVAPORATED CU FILMS ON CU CRYSTALS 67-01 M13-57108
ELECTRON DIFFRACTION STUDIES OF THE EPITAXY OF CU SINGLE CRYSTALS. PT. 2. EARLY STAGES OF EPITAXY AND INTERFACIAL DISLOCATION NETWORKS 67-01 M13-57109
ELECTRON DIFFRACTION CONTRAST OF SMALL STACKING FAULT TETRAHEDRA WITH APPLICATIONS TO QUENCHED GOLD 67-01 M13-57574
ON THE SI3N4 IN CAST IRON 67-01 M13-58254
AN ENERGY ANALYZING ELECTRON MICROSCOPE 67-01 M13-58692
APPLICATION OF X-RAY DIFFRACTION GRATINGS TO ELECTRON MICROANALYSIS 67-02 M13-58927
ELECTRON DIFFRACTION AT LOW TEMPERATURE. PT. 2. RADIAL DISTRIBUTION ANALYSIS OF METASTABLE STRUCTURE OF METAL FILMS PREPARED BY LOW TEMPERATURE CONDENSATION 67-02 M13-60514
ELECTRON DIFFRACTION OF LOW TEMPERATURE. PT. 3. RADIAL DISTRIBUTION ANALYSIS OF METASTABLE STRUCTURE OF METAL FILMS PREPARED BY LOW TEMPERATURE CONDENSATION 67-02 M13-60515
MULTIPLE ELECTRON DIFFRACTION. APPLICATION TO EVAPORATING UO2 PLUS X 67-02 M13-60812
TEMPERATURE DEPENDENCE OF DYNAMICAL ELECTRON DIFFRACTION INTENSITIES OF POLYCRYSTALLINE FOILS 67-02 M13-61825
STRUCTURE OF ANTIMONY SPHERULITES CRYSTALLIZED FROM AN AMORPHOUS FILM P 147-150 67-02 M13-61938
HETEROGENEITY OF ZINC OXIDE DOPED WITH GALLIUM 67-02 M14-62298
MAGNETIC ANALYSIS BY ELECTRON REFLECTION 67-02 M15-61899
METHODS OF STUDYING TEXTURE IN ELECTROLYTIC DEPOSITS 67-03 M13-65105
ELECTRON DIFFRACTION ANALYSIS OF THE OXIDE LAYER ON V2A STAINLESS STEEL 67-03 M13-65124
ELECTRON DIFFRACTION AT LOW TEMPERATURE 4. AMORPHOUS FILMS OF IRON AND CHROMIUM PREPARED BY LOW TEMPERATURE CONDENSATION 67-03 M13-65157
STACKING FAULT ENERGY OF FACE CENTERED CUBIC METALS ESTIMATED BY ELECTRON MICROSCOPIC ANALYSIS OF DIFFRACTION CONTRAST OF FAULTED DIPOLES 67-03 M13-65216
THE FINE STRUCTURE OF SPOTS IN ELECTRON DIFFRACTION RESULTING FROM THE PRESENCE OF PLANAR INTERFACES AND DISLOCATIONS. PT. 2. OBSERVATIONS ON CRYSTALS CONTAINING STACKING FAULTS 67-03 M13-65379
MULTIPLE DIFFRACTION EFFECTS IN ANNEALED PERMALLOY FILMS 67-03 M13-65882
IDENTIFICATION OF CRYSTALS OF PHASES PRECIPITATING IN AN AL-CU-AG ALLOY AND THE TOPOLOGY OF THEIR GROWTH 67-04 M13-66868
OXIDE GROWTH IN AN AL-AL203 SAP-TYPE ALLOY BY HOT STAGE TRANSMISSION ELECTRON MICROSCOPY 67-04 M14-66058
INVESTIGATION OF SURFACE REACTIONS BY LOW ENERGY ELECTRON DIFFRACTION --LEED-- 67-04 M14-67743
ELECTRON MICROSCOPY AND MICRODIFFRACTION STUDY OF NONMETALLIC INCLUSIONS IN MOLYBDENUM AND ITS ALLOYS 67-05 M13-68208
LOW-ENERGY ELECTRON DIFFRACTION OF SPHERICAL COPPER SINGLE CRYSTALS 67-05 M13-68338
METHODS FOR INTERPRETING ELECTRON DIFFRACTION PATTERNS OF THIN ALLOY FILMS 67-05 M13-68439
FORMS OF GROWTH OF CU WHISKERS AND DETERMINATION OF THEIR CRYSTAL STRUCTURE BY ELECTRON DIFFRACTION 67-05 M13-68645
LOW ENERGY ELECTRON DIFFRACTION STUDIES ON GE AND NA-COVERED GE 67-05 M13-69037
SCANNING ELECTRON DIFFRACTION OBSERVATIONS ON DIFFUSE INNER RINGS FROM VERY THIN VAPOR-DEPOSITED FILMS 67-05 M13-69209
AN ELECTRON DIFFRACTION STUDY OF PEARLITE 67-05 M13-69431
ELECTRON DIFFRACTION STUDY OF THE STRUCTURE OF THE SUBOXIDES OF NIOBIUM AND TANTALUM 67-05 M13-69584
METHODOLOGICAL PRINCIPLES OF DIFFRACTION ELECTRON MICROSCOPY 67-05 M13-69625
USE OF THE DIFFRACTION CONTRAST METHOD FOR INVESTIGATING CRYSTAL DEFECTS 67-05 M13-69626
EMMA-2, AN INSTRUMENT FOR ELECTRON-MICROSCOPIC AND X-RAY SPECTRAL MICROANALYSIS OF THIN FILMS AND EXTRACTION REPLICAS 67-05 M13-69637
INVESTIGATIONS OF THIN OXIDE FILMS. PT. 3. THE ELECTRON MICROSCOPIC INVESTIGATION OF ISOLATED ALPHA-FE203 AND NIO WHISKERS 67-05 M13-69838
ORIENTED GROWTH OF AN OXIDE FILM ON BERYLLIUM 67-05 M14-68244
ELECTRON DIFFRACTION AND ELECTRON MICROSCOPE ANALYSIS OF THE CARBIDES IN VACUUM-CONDENSED IRON-CARBON FILMS 67-05 M14-68837
ELECTRON-DIFFRACTION STUDY OF THE PB2BI2SE5 STRUCTURE 67-06 M13-71186
SOME ELECTRON DIFFRACTION CONTRAST EFFECTS AT PLANAR DEFECTS IN CRYSTALS 67-06 M13-71280
SUPPLEMENT TO ELECTRON DIFFRACTION AT LOW TEMPERATURE RADIAL DISTRIBUTION ANALYSIS OF A FILM COMPOSED OF VERY FINE CRYSTALLITES 67-06 M13-71548
LOW-ENERGY ELECTRON DIFFRACTION OBSERVATIONS OF ALPHA-ALUMINA 67-06 M13-71678
AN ELECTRON DIFFRACTION STUDY OF PEARLITE. PT. 2 67-06 M13-71825
THE DEVELOPMENT OF THE FACE-CENTERED CUBIC INTERFERENCE FUNCTIONS AS CRYSTALS GROW 67-06 M14-70898
AN ABSOLUTE PRECISION MEASUREMENT OF LATTICE CONSTANTS ON GE AND AL MONOCRYSTALS WITH ELECTRON DIFFRACTION 67-07 M13-72729
AN ABSOLUTELY PRECISE DETERMINATION OF THE LATTICE CONSTANTS OF SI SINGLE CRYSTALS BY ELECTRON DIFFRACTION 67-07 M13-72757
METHODS OF STUDYING TEXTURE IN ELECTROLYTIC DEPOSITS 67-07 M13-72787
ELECTRON MICROPROBE AND ELECTRON DIFFRACTION ANALYSIS OF SURFACE REPLICA EXTRACTIONS 67-07 M13-72807
ELECTRON DIFFRACTION AT LOW TEMPERATURE. PT. 5. ON AMORPHOUS FILMS OF TRANSITION METALS AND ALLOYS PREPARED BY LOW-TEMPERATURE CONDENSATION 67-07 M13-73319
A LOW ENERGY ELECTRON DIFFRACTION STUDY OF THE --100--, --110-- AND --111-- SURFACE OF GOLD 67-07 M13-73917
EXPERIMENTAL STUDIES ON DYNAMIC MULTIPLE REFLECTIONS OBSERVED IN THIN FILMS OF METALS AND ALLOYS BY ELECTRON DIFFRACTION 67-08 M13-74414
SURFACE MEASUREMENTS USING LOW ENERGY ELECTRON DIFFRACTION 67-08 M13-74708
X-RAY AND ELECTRON DIFFRACTION 67-08 M13-74813

LOCAL ORDER IN SOLID ALLOYS. PT. 1
67-08 M13-75338
LOW-ENERGY ELECTRON DIFFRACTION STUDY OF THE --100-- FACE OF SILVER, GOLD, AND PALLADIUM
67-08 M13-75369
EPITAXIAL GROWTH OF FACE CENTERED CUBIC METALS ON ALKALIHALIDE CRYSTALS CLEAVED IN VACUUM
67-08 M14-74413
QUENCHED THIN PB FILMS. COMPARISON OF MEAN FREE PATHS CALCULATED FROM CRITICAL MAGNETIC FIELD VALUES WITH ELECTRON DIFFRACTION RESULTS
67-08 M16-75834
INVESTIGATION OF REDUCTION LAYERS OF FE2O3 BY ELECTRON DIFFRACTION AND OPTICAL MICROSCOPY
67-09 M04-77189
A STUDY OF THE GASEOUS ETCHING OF GERMANIUM BY OXYGEN
67-09 M13-76482
ELECTRON METALLOGRAPHY OF PRECIPITATES IN IRRADIATED AND UNIRRADIATED STAINLESS STEEL
67-09 M19-76636
ELECTRON DIFFRACTION ANALYSIS OF THE CARBURIZING OF THIN TUNGSTEN LAYERS ANNEALED IN VACUUM AT HIGH TEMPERATURES
67-10 M10-80067
A COMPARISON OF ELECTRON MICROSCOPE IMAGES OF DISLOCATIONS BASED ON ISOTROPIC AND ANISOTROPIC ELASTICITY THEORY
67-10 M13-79018
ELECTRON-DIFFRACTION STUDY OF THE PB2BI2SE5 STRUCTURE
67-10 M13-79355
LOW-ENERGY ELECTRON DIFFRACTION STUDY OF SURFACES OF ANTIMONY AND BISMUTH
67-10 M13-79547
OXIDATION OF THE --112-- FACE OF TUNGSTEN
67-10 M13-79550
SURFACE PLASMA OSCILLATIONS AS A TOOL FOR SURFACE EXAMINATIONS
67-10 M13-79557
INTERPRETATION OF ELECTRON DIFFRACTION PATTERNS
67-10 M13-80003
LOW-ENERGY ELECTRON DIFFRACTION WITH SPHERICAL SHAPED COPPER CRYSTALS
67-10 M14-79555
SURFACE STRUCTURES ON SPHERICAL COPPER CRYSTALS AFTER ADSORPTION OF OXYGEN
67-10 M14-79556
INELASTIC SCATTERING OF LOW ENERGY ELECTRONS FROM SURFACES
67-10 M16-79558
THE EFFECT OF SYSTEMATIC REFLECTIONS ON THE --110-- EXTINCTION DISTANCE IN MOLYBDENUM
67-11 M13-80613
ABSORPTION AND THE ATOMIC SCATTERING OF ELECTRONS IN ALUMINUM AND NACL
67-11 M16-80181
ENERGY SPECTRA OF INELASTICALLY SCATTERED ELECTRONS AND LEED STUDIES OF TUNGSTEN
67-11 M16-81095
TRACE CHARACTERIZATION--CHEMICAL AND PHYSICAL
67-11 M19-80130
INFLUENCE OF CARBON ON FORMATION OF MARTENSITE IN HIGH-NICKEL STEEL
67-12 M13-81834
SUBSTRUCTURE OF MARTENSITE IN CARBON STEELS
67-12 M13-81835
BLOCK STRUCTURE OF MARTENSITE CRYSTAL FRAGMENTS IN STRUCTURAL STEELS
67-12 M13-81836

ELECTRON EMISSION
SEE ALSO FIELD EMISSION
SECONDARY EMISSION
APPLICATION OF EXOELECTRONIC EMISSION IN METAL SCIENCE
67-02 M19-60859
THE ELECTRON EMISSION DURING THE MELTING AND SOLIDIFICATION OF METALS
67-05 M15-69190
ANALYSIS OF N-TYPE GAAS WITH ELECTRON-BEAM-EXCITED RADIATIVE RECOMBINATION
67-05 M16-68620
EFFECT OF ALLOYING ON THE ALUMINUM K AND IRON L X-RAY EMISSION SPECTRA IN THE ALUMINUM-IRON BINARY SYSTEM
67-05 M16-69219
ADSORPTION AND ELECTRON EMISSION OF ALKALINE-EARTH METAL FILMS ON TUNGSTEN, IRIDIUM, AND RHODIUM
67-06 M16-70508
EXO-ELECTRONIC EMISSION OF STRAINED ALUMINUM AND D16 ALLOY
67-06 M16-72118
THE IDENTIFICATION OF SMALL QUANTITIES OF MATERIAL BY EXO ELECTRONS
67-06 M19-72143
EXOEMISSION IN GAMMA-TO-EPSILON AND EPSILON-TO-GAMMA TRANSFORMATIONS
67-08 M14-75263
APPLICATION OF THE METHOD OF EXOELECTRON EMISSION IN METAL SCIENCE
67-08 M19-76117
INVESTIGATION OF THE ADSORPTION AND ELECTRON EMISSION OF CESIUM FILMS ON A TUNGSTEN SINGLE CRYSTAL
67-09 M13-76785
ELECTRON AND ION EMISSION FROM A COPPER SURFACE IN THE PRESENCE OF OXYGEN, CESIUM AND OXYGEN PLUS CESIUM
67-09 M16-76484
SLIP-INDUCED DIRECTIONAL ORDER IN FE-NI ALLOYS PT. 2. EXPERIMENTAL OBSERVATIONS
67-10 M14-79165
THERMAL EMISSION MICROSCOPE STUDIES OF CESIUM SURFACE IONIZATION ON POROUS REFRACTORY METALS
67-10 M16-79166
TEMPERATURE DEPENDENCE OF STIMULATED EMISSION OF ELECTRON-BEAM-PUMPED CDTE
67-10 M16-79468
EMISSION FROM NONRELATIVISTIC ELECTRONS IN THIN METAL FOILS
67-11 M15-80785
EMISSION OF EXOELECTRONS FROM METALLIC MATERIALS
67-11 M16-80222
EXOELECTRON EMISSION DURING SURFACE DEFORMATION OF AUSTENITIC STEELS AS A RESULT OF MICROIMPACT EFFECTS
67-11 M16-81408
ANTIEMISSION ALLOY
67-12 M16-83324

ELECTRON EMISSION, COOLING EFFECTS
INVESTIGATIONS CONCERNING THE QUESTION OF ELECTRON EMISSION DURING THE SOLIDIFICATION OF METAL MELTS
67-09 M14-76793

ELECTRON EMISSION, STRESS EFFECTS
INERTIA OF EXOELECTRON EMISSION OF STRAINED METALS
67-08 M16-75889

ELECTRON FLUX
SEE ELECTRON DENSITY
FLUX

ELECTRON METALLOGRAPHY
SEE ELECTRON MICROSCOPY

ELECTRON MICROBEAM ANALYSIS
SEE ELECTRON PROBE ANALYSIS

ELECTRON MICROPROBES
SEE ELECTRON PROBES

ELECTRON MICROSCOPES
ON THE SI3N4 IN CAST IRON
67-01 M13-58254
AN ENERGY ANALYZING ELECTRON MICROSCOPE
67-01 M13-58692
FRACTOGRAPHIC EXAMINATION OF FATIGUE SPECIMENS OF DUCTILE IRON
67-01 M17-57441
DETECTION OF PRECIPITATION OF IRON CARBON MARTENSITES WHICH CANNOT BE OBSERVED WITH THE ELECTRON MICROSCOPE
67-02 M13-59916
METALLOGRAPHIC INVESTIGATIONS WITH THE EMISSION ELECTRON MICROSCOPE
67-03 M13-65902
METALLURGICAL APPLICATIONS OF A 500 KV ELECTRON MICROSCOPE
67-04 M13-67551
A LIQUID HELIUM COOLED STAGE FOR AN ELECTRON MICROSCOPE
67-05 M13-69296
ELECTRONIC MICROSCOPE AND ITS USE IN METALLURGY
67-06 M13-71570
750 KV ELECTRON MICROSCOPE AT CAVENDISH LABORATORY
67-07 M13-73088
ELECTRON MIRROR OBSERVATION OF SUPER-CONDUCTORS IN THE INTERMEDIATE STATE
67-10 M16-78781

ELECTRON MICROSCOPY
SEE ALSO TRANSMISSION ELECTRON MICROSCOPY
REPLICATION OF FINE STRUCTURE IN MARTENSITE
67-01 M13-57429
ELECTRON MICROSCOPY OF PRECIPITATES IN ALUMINUM ALLOYS
67-01 M13-57988
OBSERVATION OF THIN FILMS OF ZIRCONIUM UNDER THE TRANSMISSION ELECTRON MICROSCOPE
67-01 M13-58023
MICRODIFFRACTION OF ELECTRONS APPLIED TO METALLOGRAPHY
67-01 M13-58127
DISLOCATIONS IN THE THETA --CUAL2-- PHASE COEXISTING WITH ALUMINUM
67-01 M13-58327
THE EXAMINATION OF SURFACES WITH LIGHT, X-RAY AND ELECTRON BEAMS
67-01 M13-58436
A TECHNIQUE FOR PREPARING SAMPLES OF SMALL FRAGILE PARTICLES FOR ELECTRON MICROSCOPE EXAMINATION BY MEANS OF REPLICAS
67-01 M13-58543
ELECTRON METALLOGRAPHY TECHNIQUES APPLIED TO BODY CENTERED CUBIC METALS AND ALLOYS
67-01 M13-58761
THE ESTIMATION OF SIZE DISTRIBUTION AND DENSITY OF PRECIPITATES FROM ELECTRON MICROGRAPHS OF THIN FOILS
67-01 M13-58782
MICROSTRUCTURAL TRANSFORMATIONS DURING TEMPERING OF COMPLEX ALLOY STEELS WITH 12 PER CENT CR ARE STUDIED BY AN ELECTRON MICROSCOPE
67-01 M14-58173
AUTOMATIC UNIT FOR THINNING TRANSMISSION ELECTRON MICROSCOPY SPECIMENS OF METALS
67-01 M16-57226
THE STRUCTURAL DEPENDENCE OF THE PROPERTIES OF TUNGSTEN CARBIDE-COBALT ALLOYS
67-01 M17-57924
THE PREPARATION OF TITANIUM FOR TRANSMISSION ELECTRON MICROSCOPY
67-02 M13-59439
ELECTRON MICROSCOPY OF THIN TWINS AND STACKING FAULTS
67-02 M13-60516
ELECTRON MICROSCOPIC IMAGES OF DISLOCATION RIBBONS
67-02 M13-61512

ELECTRON MICROSCOPE OBSERVATION OF ATOMIC PLANES AND ATOMIC POSITIONS IN GERMANIUM 67-02 M13-61691

STRUCTURE OF ANTIMONY SPHERULITES CRYSTALLIZED FROM AN AMORPHOUS FILM P 147-150 67-02 M13-61938

ELECTRON MICROSCOPIC INVESTIGATION OF AL-ZN-MG ALLOYS 67-02 M14-59761

PRECIPITATION OF --FE, CR-- SIGMA PHASE FROM AUSTENITE 67-02 M14-60629

MAGNETIC AND METALLURGICAL STRUCTURES IN PERMANENT MAGNETS 67-02 M15-61033

MECHANICAL PROPERTIES AT HIGH TEMPERATURE AND OPTICAL ELECTRON MICROSTRUCTURES OF ROLLED TITANIUM 67-02 M17-61029

DEFORMATION STRUCTURES IN BERYLLIUM 67-03 M13-65270

ELECTRON MICROSCOPE STUDY OF WORK HARDENING AND QUENCH HARDENING OF MONOCRYSTALLINE BERYLLIUM 67-03 M13-65271

CURRENT RESEARCH AT NUCLEAR METALS ON HIGH-PURITY BERYLLIUM 67-03 M13-65272

ELECTRON-MICROSCOPIC SURFACE REPLICA AND THEIR POWER OF RESOLUTION 67-03 M13-65320

IMPROVING THE PRECISION OF THE CRYSTALLOGRAPHIC ORIENTATION AND RECIPROCAL DISORIENTATION OF MICROPARTICLES IN AN ELECTRON MICROSCOPIC OBJECT 67-03 M13-65603

THE THERMAL ETCHING OF COPPER IN VACUO AT ELEVATED TEMPERATURES 67-03 M13-65691

IDENTIFICATION AND MORPHOLOGY OF OXIDE PARTICLES IN INTERNALLY OXIDIZED CU-MN ALLOYS 67-03 M14-65215

ELECTRON MICROSCOPE OBSERVATIONS ON PRECIPITATION IN BERYLLIUM 67-03 M14-65256

TRANSMISSION ELECTRON MICROSCOPY STUDY OF COLD WORKED AND ANNEALED STRUCTURES IN ALUMINUM AND TWO ALUMINUM ALLOYS 67-03 M14-65547

THE ROLE OF DISLOCATIONS IN RECRYSTALLIZATION 67-03 M14-65555

INFLUENCE OF THE ORIENTATION ON THE RECRYSTALLIZATION OF IRON SINGLE CRYSTALS DEFORMED BY UNIDIRECTIONAL ROLLING 67-03 M14-65558

THE NATURE OF THE NEAR FOCUS E. M. IMAGES OF AMORPHOUS SUBSTRATES AND ITS SIGNIFICANCE FOR OBTAINING HIGH RESOLUTION PICTURES 67-04 M13-66155

SURFACE STRUCTURE AND CHEMICAL REACTIVITY OF ELECTRODEPOSITED NICKEL 67-04 M13-66270

OBTAINING THIN FOIL FROM WELDED JOINT METAL FOR STUDY OF DISLOCATION STRUCTURE 67-04 M13-66441

ELECTRON MICROSCOPE OBSERVATIONS OF GAS BUBBLES IN NEUTRON IRRADIATED AL-LI ALLOYS 67-04 M13-66603

ELECTROPOLISHING APPARATUS FOR COMPARATIVE FIELD-ION AND ELECTRON MICROSCOPY 67-04 M13-66734

TECHNIQUE AND APPLICATION OF TRANSMISSION ELECTRON MICROSCOPY 67-04 M13-67302

METALLOGRAPHIC ATLAS OF IRON, STEELS AND CAST IRONS. V. 1. FUNDAMENTALS OF METALLOGRAPHY 67-04 M13-67733

A MICRORELIEF OF THE SURFACE OF BE CONDENSATES 67-04 M13-67928

ELECTRON-MICROSCOPE INVESTIGATION INTO THE PRIMARY STRUCTURES OF CHILLED IRONS 67-04 M13-67947

ELECTRON MICROSCOPIC OBSERVATION OF CROSSED LATTICES IN GOLD CRYSTAL FILMS 67-04 M13-68122

IN-SITU TRANSFORMATION OF FE3C TO MO2C IN IRON-MOLYBDENUM-CARBON ALLOYS 67-04 M14-67022

ELECTRON MICROSCOPIC INVESTIGATION OF THE DEFORMATION PROCESSES IN PEARLITIC STRUCTURES DURING WIRE DRAWING 67-04 M14-67203

APPLICATIONS OF THE SCANNING ELECTRON MICROSCOPE TO OXIDE SURFACES 67-04 M18-67490

ELECTRON MICROSCOPY AND MICRODIFFRACTION STUDY OF NONMETALLIC INCLUSIONS IN MOLYBDENUM AND ITS ALLOYS 67-05 M13-68208

THE CONTRAST ON ELECTRON MICROGRAPHS CAUSED BY SPACED EDGE DISLOCATION MULTI-POLES 67-05 M13-68291

ELECTRON MICROSCOPE OBSERVATION OF THE FISSION-GAS BUBBLE DISTRIBUTION IN UO2 67-05 M13-68347

TECHNIQUE FOR SELECTED AREA REPLICATION OF SURFACES 67-05 M13-68653

THINNING OF POLYCRYSTALLINE MGO FOR TRANSMISSION ELECTRON MICROSCOPY 67-05 M13-68659

ELECTRON FRACTOGRAPHY PINPOINTS CAUSE OF FATIGUE FRACTURE 67-05 M13-68677

ELECTRON MICROSCOPIC ANALYSIS OF EROSION WEAR OF 1KH18N9T STAINLESS STEEL DEPENDING ON HEAT TREATMENT AND CAVITATION EXPOSURE TIME 67-05 M13-69019

OBSERVATION OF GOLD FILMS ON THINNED ROCKSALT 67-05 M13-69222

ANOMALOUS IMAGES IN ELECTRON MICROSCOPY 67-05 M13-69463

METHODOLOGICAL PRINCIPLES OF DIFFRACTION ELECTRON MICROSCOPY 67-05 M13-69625

TRANSMISSION ELECTRON MICROSCOPIC STUDIES OF UNDOPED TUNGSTEN WIRE --0.38 MM-- ANNEALED ISOTHERMALLY AT 1180 C 67-05 M13-69861

INTERSTITIAL DISLOCATION LOOPS IN NEUTRON IRRADIATED COPPER 67-05 M16-68298

THE ANALYSIS OF FRACTURE SURFACES BY ELECTRON MICROSCOPY 67-05 M17-69448

A METHOD FOR PRODUCING ELECTRON MICROGRAPHS OF SLIP STEPS ON CYLINDRICAL METAL SINGLE CRYSTALS 67-06 M13-70247

PREPARATION OF THIN SECTIONS BY ION BOMBARDMENT FOR TRANSMISSION ELECTRON MICROSCOPY 67-06 M13-70833

INVESTIGATIONS OF SURFACES OF THE BINARY SYSTEM TA-FE BY MEANS OF AN EMISSION ELECTRON MICROSCOPE 67-06 M13-70995

TRANSMISSION ELECTRON MICROSCOPE EXAMINATION OF CRACKS FORMED IN MASSIVE BODIES 67-06 M13-71015

ELECTRON MICROSCOPE HOLDERS FOR VIEWING THIN WIRE SPECIMENS AND FIELD-ION MICROSCOPE TIPS 67-06 M13-71016

SOME ELECTRON DIFFRACTION CONTRAST EFFECTS AT PLANAR DEFECTS IN CRYSTALS 67-06 M13-71280

CONTRIBUTION OF TRANSMISSION ELECTRON MICROSCOPY FOR THE STUDY OF ALLOYS 67-06 M13-71569

EXPLANATION OF THE CONTRAST DIFFERENCES OF AMORPHOUS AND CRYSTALLINE OBJECTS IN ELECTRON MICROSCOPY 67-06 M13-72144

ELECTRON-MICROSCOPIC INVESTIGATION OF FINE CUTTING BY RAZOR BLADES 67-06 M13-72164

AN ELECTRON MICROSCOPE INVESTIGATION OF EXPLOSIVELY LOADED COPPER 67-06 M14-71279

OBSERVATIONS OF G-P ZONE REVERSION IN AL-ZN-MG ALLOYS BY SMALL-ANGLE X-RAY SCATTERING AND TRANSMISSION ELECTRON MICROSCOPY 67-06 M14-71423

ELECTRON MICROSCOPE OBSERVATION OF RECOVERY AND RECRYSTALLIZATION OF ALUMINUM 67-06 M14-71445

METALLURGICAL INVESTIGATIONS WITH A 500 KV ELECTRON MICROSCOPE 67-06 M14-71545

METHOD OF REMOVING THIN FOIL FROM WELDED JOINTS FOR THE STUDY OF DISLOCATION STRUCTURES 67-07 M13-72700

ELECTRON-METALLOGRAPHIC EXAMINATION OF SOFT-MAGNETIC NICKEL-IRON ALLOYS 67-07 M13-73533

TRANSMISSION ELECTRON MICROSCOPY OF VANADIUM-SILICON --V3SI-- AT LOW TEMPERATURES 67-07 M13-73624

LATTICE DEFECTS 67-07 M13-73675

THE DETERMINATION OF CRYSTALLOGRAPHIC STRUCTURES ON ELECTRON TRANSMISSION MICROGRAPHS 67-07 M13-73851

IMMISCIBLE BEHAVIOR IN THE IRON-INDIUM SYSTEM 67-07 M13-73856

GRAIN BOUNDARY MIGRATION AND GROWTH OF GAS BUBBLES IN NEUTRON IRRADIATED AL-LI ALLOYS 67-07 M14-74197

CONTRAST IN THE ELECTRON MICROSCOPE DUE TO STRAY MAGNETIC FIELDS NEAR SINGLE-DOMAIN IRON WHISKERS 67-07 M15-73554

LORENTZ MICROSCOPY IN POLYCRYSTALLINE NI-FE FILMS 2000-A THICK 67-07 M15-73571

A SIMPLE TECHNIQUE FOR SHOCK DEFORMING METAL FOILS 67-08 M08-74393

DESIGN OF A NEW VACUUM DEPOSITION SPECIMEN HOLDER FOR AN ELECTRON MICROSCOPE OPERATING AT 10-8 TORR 67-08 M12-74787

IMPROVED DETERMINATION ON THE CRYSTALLOGRAPHIC ORIENTATION AND MUTUAL DISORIENTATION OF MICROSCOPIC SECTIONS OF AN ELECTRON-MICROSCOPE OBJECT 67-08 M13-74528

EFFECTS OF SPECIMEN THICKNESS AND ORIENTATION ON WEIGHT LOSS OF ALPHA-BRASS SINGLE CRYSTALS DUE TO HEATING IN VACUUM 67-08 M13-74604

ELECTRON MICROSCOPY 67-08 M13-74693
THE CHARACTERIZATION OF SOLID THIN FILMS BY ELECTRON MICROSCOPY AND DIFFRACTION 67-08 M13-74707
A RAPID TECHNIQUE FOR PREPARING THIN FOILS FOR ELECTRON MICROSCOPY. --IMPROVED JET-POLISHING METHOD-- 67-08 M13-75082
THE ELECTRON MICROSCOPE AND ITS METALLURGICAL APPLICATIONS 67-08 M13-75797
EPITAXIAL GROWTH OF FACE CENTERED CUBIC METALS ON ALKALIHALIDE CRYSTALS CLEAVED IN VACUUM 67-08 M14-74413
RECOVERY AND RECRYSTALLIZATION OF ALUMINIUM DURING EXTRUSION 67-08 M14-75136
ELECTRON MICROSCOPIC INVESTIGATION OF ALLOYS OF THE AL-ZN-MG SYSTEM 67-08 M14-76120
THE STRUCTURE AND MECHANICAL PROPERTIES OF SHOCK-LOADED STEELS 67-08 M17-75332
THE APPLICATIONS OF THE ELECTRON BEAM MICROANALYZER --MICROPROBE-- TO MATERIALS RESEARCH 67-08 M19-74568
THE SIGNIFICANCE OF A CONTROLLABLE COMPOSITON OF RESIDUAL GASES IN HIGH-TEMPERATURE INVESTIGATION OF METALS BY ELECTRON MICROSCOPY 67-09 M10-76464
CHARACTERISTICS OF HARD METAL STRUCTURES IN THE ELECTRON MICROSCOPE 67-09 M13-76465
A STUDY OF THE GASEOUS ETCHING OF GERMANIUM BY OXYGEN 67-09 M13-76482
EXPERIMENTS ON THE DEFORMATION OF NIOBIUM SINGLE CRYSTALS. PT. 2. ELECTRON MICROSCOPE STUDY OF DISLOCATION STRUCTURES 67-09 M13-76586
THE ROLE OF THE MICROSCOPE IN THE STUDY OF METALS 67-09 M13-77092
STUDY OF THE STRUCTURE OF SOME TITANIUM ALLOYS IN AN ELECTRON MICROSCOPE USING THIN FOILS 67-09 M13-77770
ELECTRON MICROSCOPY OF GRAIN STRUCTURE OF LOW DISORIENTATION 67-09 M13-78012
OBSERVATION OF ALPHA/GAMMA TRANSFORMATION ON PURE IRON SURFACES IN THE ELECTRON MICROSCOPE 67-09 M14-76466
ELECTRON MICROSCOPE OBSERVATION OF FRACTURE SURFACE IN AL-ZN POLYCRYSTALLINE ALLOYS 67-09 M17-78248
ELECTRON METALLOGRAPHY OF PRECIPITATES IN IRRADIATED AND UNIRRADIATED STAINLESS STEEL 67-09 M19-76636
INDUSTRIAL APPLICATIONS OF ELECTRON METALLOGRAPHY. PT. 2 67-10 M13-78744
INDUSTRIAL APPLICATIONS OF ELECTRON METALLOGRAPHY 67-10 M13-79378
EXAMINATIONS OF TITANIUM USING AN ELECTRON MICROSCOPE 67-10 M13-79873
REVEALING DISLOCATION STRUCTURE IN KHN77TYUR ALLOYS BY STAINING 67-10 M13-79905
JOINT USE OF CONTROLLED-POTENTIAL METALLOGRAPHIC ETCHING AND THE ELECTRON PROBE MICROANALYZER FOR THE STUDY OF COMPLEX STRUCTURES IN STAINLESS STEELS 67-10 M13-79984
APPLICATION OF THE ELECTRON MICROSCOPE FOR PRODUCTION OF PSEUDO-KOSSEL PATTERNS AND THEIR USE IN THE DETERMINATION OF LATTICE CONSTANTS OF A BERYLLIUM-4.4 PER CENT WT PER CENT COPPER ALLOY 67-10 M13-79997
LOOKING FOR THE WHY OF FRACTURE 67-10 M17-79782
ELECTRON MICROSCOPIC STUDY OF THE STRUCTURE OF ZR-4 PER CENT NB ALLOY 67-11 M13-80742
THE EFFECT OF AMORPHOUS SURFACE LAYERS ON ELECTRON MICROSCOPE IMAGES OF CRYSTALS 67-11 M13-80808
TECHNIQUES FOR ELECTRON MICROSCOPE FRACTOGRAPHY 67-11 M13-81641
ELECTRON MICROSCOPIC OBSERVATION ON THE RECRYSTALLIZATION OF THE HEAVILY ROLLED SHEET OF 7-3 BRASS 67-11 M14-81063
CRYSTAL GROWTH AND DEFECT STRUCTURE OF ZINC SULFIDE AND ZINC SELENIDE PLATELETS 67-11 M14-81094
OBSERVATION OF SOLIDIFICATION AND MELTING PHENOMENA IN METALS USING THE ELECTRON MICROSCOPE 67-11 M14-81275
SCANNING MICROSCOPY WITH ELECTRONS AND X-RAYS 67-11 M19-81188
STRENGTHENING OF ANNEALED CUPRONICKELS BY CHROMIUM 67-12 M10-83057
THE USEFULNESS OF FRACTOGRAPHY 67-12 M13-81818
RECENT ADVANCES IN ELECTRON MICROSCOPY 67-12 M13-82700
ELECTRON-MICROSCOPY STUDIES OF TRANSFORMATIONS IN A TI-V ALLOY 67-12 M13-82975
CHEMICAL ETCHANTS FOR DISLOCATIONS IN ALPHA BRASS 67-12 M13-82983
MORPHOLOGIES OF BUBBLES AND VOIDS IN TUNGSTEN 67-12 M13-83064
NATURE OF CREEP CAVITIES IN TUNGSTEN 67-12 M13-83065
ELECTRON-MICROSCOPE INVESTIGATION OF THE TEMPERING OF HARDENED STEEL 67-12 M14-82153
ELECTRON MICROSCOPIC STUDIES ON ORIGINS OF MAGNETIZATION RIPPLES IN FERROMAGNETIC THIN FILMS 67-12 M15-81761
THE EFFECT OF HOT ROLLING VARIABLES ON THE FRACTURE TOUGHNESS OF 18NI MARAGING STEEL 67-12 M17-83059
INTERGRANULAR CORROSION AND ELECTRON MICROSCOPIC STUDIES OF AUSTENITIC STAINLESS STEELS 67-12 M18-83054

ELECTRON MOBILITY
HIGH ELECTRON MOBILITY OF CUBIC SIC 67-03 M16-65890
HIGH FIELD MOBILITY OF PHOTOELECTRONS IN CDS 67-04 M16-66773
MECHANISM OF THE GUNN EFFECT 67-04 M16-66780
MIXED SCATTERING IN 3-V COMPOUNDS 67-04 M16-66782
VARIATION OF DRIFT VELOCITY WITH FIELD IN GAAS 67-04 M16-68074
CONDUCTION ELECTRONS IN SOLIDS 67-05 M16-68992
ELECTRON MOBILITIES IN SIC POLYTYPES 67-05 M16-69205
ELECTRON MOBILITY MEASUREMENTS IN SIC POLYTYPES 67-05 M16-69206
DETERMINATION OF THE NEGATIVE DIFFERENTIAL MOBILITY ON N-TYPE GALLIUM ARSENIDE USING 8 MM-MICROWAVES 67-05 M16-69376
SOME ELECTRICAL PROPERTIES OF THE SEMI-CONDUCTOR BETA-GA203 67-05 M16-69574
RAPID VAPOR PHASE GROWTH OF HIGH-RESISTIVITY GAP FOR ELECTRO-OPTIC MODULATORS 67-06 M14-71150
HIGH PURITY EXPITAXIAL INAS 67-06 M15-70084
INFLUENCE OF ORDERING ON THE PROPERTIES OF SOLID SOLUTIONS OF THE SYSTEM --HGSE--3X---IN2SE3--1-X 67-06 M16-70982
TEST OF THE READ MODEL CONCERNING THE ELECTRON MOBILITY IN PLASTICALLY DEFORMED N-TYPE GE 67-06 M16-71000
THE EFFECT OF WATER PRESSURE ON THE EXCESS DONOR CONCENTRATION IN GAP GROWN FROM THE VAPOR PHASE IN SILICA TUBES 67-06 M16-71143
ELECTRONIC PROPERTIES AND APPLICATIONS 67-07 M16-73688
INTERNAL DEFECT PHENOMENA IN TE 67-07 M16-73833
THE DRIFTED MAXWELLIAN DISTRIBUTION FUNCTION IN INSB 67-08 M16-75248
PREPARATION AND PROPERTIES OF EPITAXIAL INAS 67-09 M16-78061
SOME OBSERVATIONS ON THE ELECTROMIGRATION IN ALUMINUM FILMS 67-10 M15-78870
TRANSPORT PHENOMENA IN SEMICONDUCTING THIN FILMS 67-11 M16-80223

ELECTRON MOBILITY, IMPURITY EFFECTS
THE TEMPERATURE DEPENDENCE OF THE DEFECT ELECTRON MOBILITY IN SILICON CRYSTALS 67-02 M15-61509
VAPOR PHASE GROWTH AND PROPERTIES OF GAAS GUNN DEVICES 67-06 M14-71149

ELECTRON PARAMAGNETIC RESONANCE
PARAMAGNETIC RESONANCE TRANSMISSION IN GADOLINIUM 67-01 M15-57552
ELECTRON PARAMAGNETIC RESONANCE, ELECTRICAL CONDUCTIVITY, AND IMPURITY DIFFUSION IN DOPED BORON 67-01 M15-58416
ELECTRON SPIN RESONANCE IN REDUCED SNO2 67-01 M16-57961
STUDY OF CRYSTALLINE AMORPHOUS BORON BY PARAMAGNETIC ELECTRONIC RESONANCE 67-02 M16-61020
E. S. R. STUDY ON THE COPPER MANGANESE DILUTE ALLOY 67-05 M16-69761
PARAMAGNETIC CENTERS ON THE SURFACE OF CDSE 67-06 M16-70872
A STUDY OF INTER-IMPURITY RECOMBINATION BETWEEN PHOSPHORUS AND BORON IN SILICON 67-06 M16-71776
PARAMAGNETIC RELAXATION OF MANGANESE IN COPPER METAL 67-07 M16-73544
MAGNETIC ANOMALY IN THE METALLIC IMPURITY

ELECTRON PARAMAGNETIC RESONANCE

CONDUCTION 67-07 M16-73991
SOME INVESTIGATIONS ON THE ELECTRIC AND MAGNETIC PROPERTIES OF CR2O3-BEO SYSTEM 67-08 M15-74779
ELECTRON PARAMAGNETIC RESONANCE STUDY OF A PARTIALLY REDUCED TITANIUM DIOXIDE 67-11 M13-81559
THE ELECTRON PARAMAGNETIC RESONANCE IN REDUCED BATIO3 CRYSTALS 67-11 M15-80319
ELECTRON PARAMAGNETIC RESONANCE, RADIATION EFFECTS
ELECTRON PARAMAGNETIC RESONANCE IN ELECTRON-IRRADIATED GERMANIUM 67-12 M16-82536
ELECTRON PARAMAGNETIC RESONANCE, TEMPERATURE EFFECTS
MAGNETIC AND PARAMAGNETIC RESONANCE PROPERTIES OF EUAL4 67-05 M15-68282
ELECTRON PROBE ANALYSIS
AN ENERGY ANALYZING ELECTRON MICROSCOPE 67-01 M13-58692
THE USE OF THE ELECTRON BEAM THICKNESS GAGE ON MULTI-LAYERED COATINGS 67-01 M19-57541
THE PRINCIPLES AND METHODS OF CORRECTION ON QUANTITATIVE ELECTRON PROBE MICROANALYSIS 67-01 M19-58557
GRAIN-BOUNDARY REACTIONS IN MAGNESIACHROME REFRACTORIES--APPLICATION OF THE ELECTRON PROBE. PT. 1 67-02 M13-61086
EXAMPLE OF QUANTITATIVE ANALYSES WITH ELECTRON PROBE MICROANALYZER 67-02 M19-59169
BREAKTHROUGH IN ANALYSIS OF LIGHT ELEMENTS 67-02 M19-59630
IMPURITY DISTRIBUTION IN MGO 67-03 M09-65652
ELECTRON PROBE MICROANALYSIS 67-03 M13-65825
MICROANALYZER STUDY OF INCLUSIONS IN BERYLLIUM AND THEIR RELATION TO THE PROPERTIES OF SEMIFINISHED BERYLLIUM PRODUCTS 67-03 M17-65286
SPECIMEN CONTAMINATION IN ELECTRON-PROBE MICROANALYSIS AND ITS PREVENTION USING A COLD TRAP 67-04 M13-66246
EFFECT OF COOLING RATE DURING ALLOY HARDENING ON SEGREGATION OF SOLUBLE IMPURITIES 67-04 M13-67001
PHASE EQUILIBRIA IN THE NB-SN SYSTEM 67-04 M13-67266
THE EFFECT OF CRYSTALLINE SEGREGATIONS ON THE DEFORMATION BEHAVIOR OF ALLOY STEELS 67-04 M14-67208
A DIFFUSION STUDY IN THE TITANIUM-SILVER SYSTEM 67-04 M14-67265
DIFFUSIVITY AND SOLUBILITY LIMIT OF COPPER IN ALPHA AND GAMMA IRON 67-04 M14-67267
DIFFUSION IN A TERNARY SUBSTITUTIONAL SYSTEM--APPLICATION TO THE COBALT-NICKEL-CHROMIUM SYSTEM 67-04 M14-67268
A STUDY OF THE COMPATIBILITY OF SELECTED REFRACTORY METALS WITH VARIOUS CERAMIC INSULATION MATERIALS 67-04 M18-67270
THE ELECTRON MICROPROBE 67-04 M19-67261
STEREOSCOPIC OBSERVATION IN SCANNING MICROSCOPY USING MULTIPLE DETECTORS 67-04 M19-67264
MICROANALYSIS OF OXIDIZED MOLTEN IRON ALLOYS 67-04 M19-67269
MICROCONSTITUENTS IN HIGH SPEED STEELS 67-04 M19-67271
MICROANALYSIS OF SULFIDE INCLUSIONS IN THE REGION OF AN INVERTED V SEGREGATE OF A STEEL INGOT 67-04 M19-67272
GRAIN BOUNDARY MIGRATION IN HOT-PRESSED TANTALUM CARBIDE 67-04 M19-67273
ELECTRON PROBE MICROANALYSIS OF SUBMICROSCOPIC PRECIPITATES IN STAINLESS STEEL 67-04 M19-67274
QUANTITATIVE MICROPROBE ANALYSIS OF MICROCRYSTALLINE POWDERS 67-04 M19-67275
FILM THICKNESS DETERMINATION BY ELECTRON PROBE MICROANALYSIS 67-04 M19-67430
THE PRINCIPLES AND METHODS OF CORRECTION ON QUANTITATIVE ELECTRON PROBE MICROANALYSIS. PT. 2 67-04 M19-67725
ELECTRON MICROBEAM PROBE ANALYSES OF NICKEL-CADMIUM BATTERY PLATES 67-05 M13-68776
DETERMINING THE TETRAGONALITY OF MARTENSITE AND FIRST-ORDER STRESSES BY ELECTRON PROBE MICROANALYSIS 67-06 M13-70335
SEGREGATION IN NODULAR IRON AND ITS INFLUENCE ON MECHANICAL PROPERTIES 67-06 M13-71322
DEVELOPMENT OF CHEMICAL MICROHETEROGENEITY IN BINARY ALUMINUM BASE ALLOYS 67-06 M13-72307
ELECTRON MICROPROBE STUDY OF THE EFFECT OF ABRASION OF THE SURFACE OF ALLOY CRYSTALS 67-06 M17-71031
BREAKTHROUGH IN ANALYSIS OF LIGHT ELEMENTS 67-06 M19-72003
THE DISTRIBUTION OF ALLOYING ELEMENTS IN DENDRITES AND INTERDENDRITIC SPACES 67-06 M19-72155
ELECTRON MICROPROBE AND ELECTRON DIFFRACTION ANALYSIS OF SURFACE REPLICA EXTRACTIONS 67-07 M13-72807
THE DETERMINATION OF THE ORIENTATION OF MICROCRYSTALS USING A BACK-REFLECTION KOSSEL TECHNIQUE AND AN ELECTRON PROBE MICROANALYZER 67-07 M13-72943
ELECTRON BEAM MICROPROBE. PT. 2. THE PROBLEM OF THE INFORMATION CONTENT OF PLANE SCANNING 67-07 M13-73187
MICROSEGREGATION IN CAST IRON 67-07 M13-73244
ORIENTATION DISTRIBUTION OF CRYSTALLITES IN ROLLED 70-30 BRASS DETERMINED BY MEANS OF SELECTED AREA ELECTRON DIFFRACTION --SAED-- 67-07 M13-73847
APPLICATION OF ELECTRON BEAM MICROANALYSIS IN CORROSION INVESTIGATIONS 67-07 M18-73118
POSSIBILITIES AND LIMITS OF ELECTRON PROBE MICROANALYSIS IN METALLOGRAPHIC PROBLEMS 67-07 M19-74275
ELECTRON PROBE MICROANALYSIS 67-08 M13-74695
INFLUENCE OF COOLING RATE DURING ALLOY SOLIDIFICATION ON THE SEGREGATION OF SOLUBLE IMPURITIES 67-08 M13-74760
THE APPLICATIONS OF THE ELECTRON BEAM MICROANALYZER --MICROPROBE-- TO MATERIALS RESEARCH 67-08 M19-74568
LIGHT ELEMENT MICROANALYSIS 67-09 M13-76661
THE ROLE OF THE MICROSCOPE IN THE STUDY OF METALS 67-09 M13-77092
ELECTRON METALLOGRAPHY OF PRECIPITATES IN IRRADIATED AND UNIRRADIATED STAINLESS STEEL 67-09 M19-76636
MICROANALYSIS OF INCLUSIONS IN IRRADIATED UO2 67-09 M19-77468
NEW METHOD FOR CONTROLLING STEEL QUALITY. MICROPROBE AND RADIOACTIVE TRACER ANALYSIS OF INCLUSIONS 67-09 M19-78290
MICROPROBE INVESTIGATIONS OF COPPER PRECIPITATES IN SILICON SINGLE CRYSTALS 67-10 M13-79011
JOINT USE OF CONTROLLED-POTENTIAL METALLOGRAPHIC ETCHING AND THE ELECTRON PROBE MICROANALYZER FOR THE STUDY OF COMPLEX STRUCTURES IN STAINLESS STEELS 67-10 M13-79984
DEVELOPMENT OF CHEMICAL MICRO-HETEROGENEITY IN BINARY ALUMINIUM-BASE ALLOYS 67-11 M13-81579
CHEMICAL COMPOSITION OF THE SIGMA PHASE AUSTENITIC STAINLESS STEELS CONTAINING MOLYBDENUM 67-11 M19-80575
THE ELECTRON PROBE MICROANALYZER 67-11 M19-81468
PROGRESS WITH THE ELECTRON PROBE MICROANALYZER--1966. QUANTITATIVE X-RAY MICROANALYSIS 67-11 M19-81469
STUDY OF NONMETALLIC INCLUSIONS IN BALLBEARING STEELS 67-11 M19-81628
AN ELECTRON BEAM METHOD OF MEASURING RESISTIVITY DISTRIBUTION IN MSEMICONDUCTORS 67-12 M15-82673
APPLICATION OF THE ELECTRON BEAM MICROPROBE TO THE PROBLEM OF METAL EXTRACTION 67-12 M19-81960
ELECTRON PROBES
THE STUDY OF SULFURIZED HIGH-SPEED STEEL. PT. 3. INCLUSIONS IN SULFURIZED HIGH-SPEED STEEL 67-02 M13-59116
ELECTRONIC PROBE METHOD OF STUDYING THE CERIUM DISTRIBUTION IN IRONS 67-02 M13-61669
THE ABSOLUTE DETERMINATION OF THE THICKNESS AND COMPOSITION OF SURFACE LAYERS WITH A MICROPROBE 67-02 M19-59087
RADIOCHEMICAL ANALYSIS OF BASIC ELEMENTS BY ELECTRON MICROPROBE 67-02 M19-59090
THE APPLICATION OF MICROPROBES IN INDUSTRIAL RESEARCH 67-02 M19-59623
AN ELECTRON-OPTICAL MICROMACHINING APPARATUS--AN INSTALLATION FOR THE THERMAL AND NONTHERMAL ELECTRON BEAM MACHINING WITH ELECTRON-OPTICAL REPRODUCTION OF AN INTERNAL PATTERN 67-03 M08-65441
ADVANCES IN X-RAY ANALYSIS. V 9 67-06 M19-71418
EVALUATION OF QUANTITATIVE ELECTRON MICROPROBE ANALYSES OF MULTIPHASE MICROCRYSTALLINE REFRACTORY MATERIALS 67-06 M19-71430

A METHOD FOR TRACE ANALYSIS WITH AN ELECTRON MICROPROBE 67-06 M19-71431
THE APPLICATION OF THE ZIEBOLD CORRECTION PROCEDURE FOR PROBE DATA TO THREE TERNARY COPPER-BASE ALLOYS 67-06 M19-71432
HOMOGENEITY CHARACTERIZATION OF NBS SPECTROMETRIC STANDARDS. PT. 2. CARTRIDGE BRASS AND LOW-ALLOY STEEL 67-06 M19-71433

ELECTRON SPIN
SEE PARTICLE SPIN

ELECTRON STRUCTURE
SEE ATOMIC STRUCTURE

ELECTRON TUBES
SEE VACUUM TUBES

ELECTRONEGATIVITY
THE PERIODIC TABLE OF ELEMENTS AND PROBLEMS OF METAL CHEMISTRY 67-05 M01-68373

ELECTRONIC ASSEMBLIES
SEE ELECTRIC DEVICES

ELECTRONIC CIRCUITS
SEE ELECTRIC CIRCUITS

ELECTRONIC COMMUNICATION SYSTEMS
SEE ELECTRIC COMMUNICATION SYSTEMS

ELECTRONIC COMPONENTS
SEE ELECTRIC DEVICES

ELECTRONIC COMPUTERS
OPERATION AND USE OF DATA PROCESSING PLANTS IN ROLLING MILLS 67-01 M07-58110
USE OF CORRELATION ANALYSIS AND COMPUTERS TO STUDY THE PROCESS OF TITANIUM SLAG SMELTING 67-04 M02-67531
USE OF ELECTRONIC COMPUTERS FOR CALCULATING CHARGE IN FOUNDRY PRODUCTION 67-04 M06-66415
AUTOMATION OF PRODUCTION CONTROL IN AN OXYGEN CONVERTER WITH SHUTDOWN AT A SPECIFIED CARBON CONTENT 67-05 M04-68545
REVIEW OF DEPOSITED METALLIC FILMS FOR COMPUTER APPLICATION 67-06 M12-71380
AUTOMATIC REGULATION OF OXYGEN-BLOWN CONVERTER BLOWS TO PRODUCE STEEL WITH A PRESCRIBED CARBON CONTENT 67-07 M04-72456

ELECTRONIC DEVICES
SEE ELECTRIC DEVICES

ELECTRONIC EQUIPMENT
SEE ELECTRIC EQUIPMENT

ELECTRONICS
PRECIOUS METAL PLATING BATHS AND THEIR PRACTICAL APPLICATIONS 67-01 M12-58303
ELECTRICAL AND ELECTRONIC APPLICATIONS 67-08 M20-74834
MATERIALS ENGINEERING FOR ELECTRONIC HARDWARE 67-10 M20-78762
HANDBOOK OF MATERIALS AND TECHNIQUES FOR VACUUM DEVICES 67-11 M01-80198

ELECTRONS
SEE ALSO PHOTOELECTRONS
DETERMINATION OF THE NUMBER OF 3D-ELECTRONS IN TRANSITION METALS OF THE IRON GROUP FROM THE COHERENT AND NONCOHERENT SCATTERING OF X RAYS 67-01 M16-57341
THE ROLE OF ELECTRON CONFIGURATIONS IN NONMETALS 67-03 M17-65340

ELECTRONS, TRANSMISSION
DIRECT COMPARISON OF THE PENETRATION OF SOLIDS AND LIQUIDS BY POSITRONS AND ELECTRONS 67-08 M16-75927

ELECTROOXIDATION
SEE ANODIZING

ELECTROPHORESIS
INDUSTRIAL APPLICATION OF ELECTROPHORETIC COATING 67-01 M12-57517
NEW DEVELOPMENTS IN SURFACE TREATMENT IN THE AEROSPACE INDUSTRY 67-01 M12-58302
ELECTRODEPOSITED ORGANIC COATINGS. PT. 1 67-02 M12-59040
ELECTROPHORETIC DEPOSITION OF ALUMINUM POWDER 67-02 M12-59158
FABRICATION OF COMPUTER MEMORY STORES BY ELECTROPHORESIS--DEPOSITION OF FERRITES ON TO PLATINUM WIRES 67-10 M12-78721

ELECTROPHORETIC COATING
FUNDAMENTAL PRINCIPLES AND APPLICATIONS OF ELECTROPHORETIC COATING 67-02 M12-60218
NEW EXPERIENCE WITH ELECTROPHORETIC PAINTING INSTALLATIONS 67-02 M12-60219
THE ELECTROPHORETIC PAINTING TECHNIQUE IN LARGE MODERN INSTALLATIONS 67-02 M12-60220
ELECTROPAINTING AT SMITHS INDUSTRIES WITNEY PLANT 67-02 M12-60902
ELECTROPLATING PLANT RECORD SIZE 67-02 M12-60927
ELECTRODEPOSITION COMES TO CANADA 67-02 M12-60928
LANDROVER CHASSIS DIPPING PLANT 67-02 M12-60929
ELECTROPHORETIC PAINT PLANT 67-02 M12-61110
ELECTROPHORETIC PAINTING OF MOTOR-CAR COMPONENTS AND ACCESSORIES 67-03 M12-65152
ELECTROPHORETIC PAINTING IMPROVES QUALITY 67-03 M12-65564
SMITHS INDUSTRIES ADOPT ELECTROPAINTING TECHNIQUE 67-03 M12-65698
ELECTROPAINTING AT MASSEY-FERGUSON TRACTORS 67-04 M12-66720
BONDING OF ALUMINIUM FOIL AND POWDER TO STEEL STRIP 67-04 M12-66982
THE ELECTROPHORETIC COATING TECHNIQUE 67-04 M12-67800
THE ELECTROPHORETIC DEPOSITION OF HEAT RESISTANT COATINGS 67-06 M12-70054
PROGRESS IN ELECTROPAINTING 67-06 M12-70658
ANODIC BEHAVIOR IN ELECTROPHORETIC COATING OF ALUMINUM ALLOYS 67-07 M12-73625
ELECTROPHORETIC PAINT APPLICATION AND INSTALLATION 67-10 M12-78523
ELECTROPHORESIS--AN IMPROVED LACQUERING TECHNIQUE 67-10 M12-79799
ELECTROPHORETIC PAINT APPLICATION AND INSTALLATION 67-11 M12-80667
CERAMIC INSULATED MAGNET WIRES 67-11 M12-81242
ELECTROCOATING ALUMINUM EXTRUSIONS 67-12 M12-81934
ELECTROPHORETIC PAINT APPLICATION AND INSTALLATION 67-12 M12-82706

ELECTROPHORETIC COATINGS
SEE ELECTROPHORETIC PLATES

ELECTROPHORETIC DEPOSITION
STUDY ON ELECTROPHORETIC DEPOSITION 67-05 M12-69354

ELECTROPHORETIC PAINTING
SEE ELECTROPHORETIC COATING PAINTING

ELECTROPHORETIC PLATES
INDUSTRIAL APPLICATION OF ELECTROPHORETIC COATING 67-01 M12-57517
NEW WAY TO COAT EXTRUSIONS--PLATE THEM WITH PAINT 67-01 M12-57927
ELECTROPHORETIC DEPOSITION OF ALUMINUM POWDER 67-02 M12-59158

ELECTROPHORETIC PLATING
ANODIC BEHAVIOR IN ELECTROPHORETIC COATING ON ALUMINUM ALLOYS 67-01 M12-58613
PAINT PLATING--EFFICIENT APPROACH TO FINISHING 67-09 M12-77491

ELECTROPHOTOMETRY
DETERMINATION OF MINOR AND TRACE ELEMENTS IN NICKEL BY X-RAY SPECTROSCOPY 67-06 M19-70863

ELECTROPLATES
SEE ALSO DUPLEX ELECTROPLATES
ELECTROPHORETIC PLATES
COHERENT COATINGS OF REFRACTORY METALS 67-01 M12-57539
ELECTROPLATES--THEIR USE AND EFFICIENCY 67-01 M12-57550
HEAVY ELECTRODEPOSITION FOR THE ENGINEER. PT. 4. HARD CHROMIUM PLATING 67-01 M12-57558
ELECTRODEPOSITION OF GOLD 67-02 M12-58907
THROWING POWER OF NICKEL BARREL PLATING 67-02 M12-59160
EFFECT OF DUTY CYCLE AND FREQUENCY OF PULSED CURRENT ON THE ELECTROCHEMICAL ASPECTS OF THE ELECTROLYSIS PROCESS 67-04 M12-66872
THE DEPOSITION OF CADMIUM 67-04 M12-67797

ELECTROPLATES, CHEMICAL ANALYSIS
COULOMETRIC TECHNIQUE FOR DETERMINATION OF ABSORBED HYDROGEN IN ELECTRODEPOSITS 67-09 M19-76999

ELECTROPLATES, COATING
REDUCTION OF TARNISHING OF ELECTROPLATED SILVER 67-02 M12-59046

ELECTROPLATES, CORROSION
ELECTROCHEMICAL STUDIES ON CORROSION RESISTANCE OF NICKEL-CHROMIUM ELECTROPLATES 67-01 M18-58236
EFFECT OF THE SURFACE STRUCTURE ON THE ELECTROCHEMICAL BEHAVIORS OF ELECTRODEPOSITED NICKEL 67-01 M18-58740
THE EFFECTS OF THE CONDITIONS OF ELECTROLYSIS ON

ELECTROPLATES

THE FORMATION OF ELECTRODEPOSITED NUCLEI
67-02 M18-60279
ELECTROLYTES FOR PLATING WITH CU-NI AND QUALITY OF THE ELECTROPLATES 67-04 M12-67287
NEW ELECTROLYTIC TEST FOR CORROSION DEVISED IN USA GIVES FAST RESULTS 67-04 M18-66135
CORROSION BEHAVIOR OF ELECTROPLATES. PT. 2. CORROSION CURRENTS IN ZINC-STEEL AND CADMIUM-STEEL COUPLES AND DECAY CHARACTERISTICS OF STEEL
67-04 M18-66286
CORROSION OF ELECTRODEPOSITED CHROMIUM
67-04 M18-66716
A STUDY OF THE ELECTRODE POTENTIAL OF NICKEL IN ACCELERATED CORROSION TEST MEDIA
67-05 M18-68817
CHROME-PLATED DIE CAST ZN PARTS IN THE AMERICAN AUTOMOTIVE INDUSTRY 67-06 M12-70039
CLAD AND PRECOATED METALS 67-06 M12-70495
CORROSION TESTING OF PLATED A B S MOLDINGS
67-09 M18-77541

ELECTROPLATES, CRACKING /FRACTURING/
EFFECT OF ELECTROPLATED COATINGS ON THE CRACKING OF STEEL DURING TESTS IN AIR AND IN A HYDROGEN ABSORBING CORROSIVE MEDIUM 67-02 M17-59653

ELECTROPLATES, CRYSTAL LATTICES
EPITAXY OF TIN ELECTRODEPOSITED ON IRON
67-04 M13-66919
ANNEALING BEHAVIOR OF FINE-GRAINED NICKEL ELECTRODEPOSITS 67-07 M14-73452
THE RELATION BETWEEN THE LATTICE DEFORMATIONS AND CRYSTAL ORIENTATION IN ELECTROLYTICALLY DEPOSITED POLYCRYSTALLINE NICKEL LAYERS
67-09 M14-76798

ELECTROPLATES, DIMENSIONAL ANALYSIS
THICKNESS AND HARDNESS MEASUREMENTS OF ELECTRODEPOSITS 67-12 M12-81751

ELECTROPLATES, LUSTER
BRIGHT COPPER PLATING FROM SULFURIC ACID ELECTROLYTES 67-01 M12-58708

ELECTROPLATES, MECHANICAL PROPERTIES
DETERMINATION OF THE VICKERS HARDNESS OF ELECTRODEPOSITED COATINGS 67-01 M12-58390
MECHANICAL PROPERTIES OF ELECTRODEPOSITED IRON FROM SULFATE BATH--CONDITIONS OF ELECTRODEPOSITION
67-07 M17-72602
THE STRAIN IN TRIPLEX NICKEL PLATING PRODUCED BY INSTANTANEOUS INTERNAL STRESS
67-07 M17-72604
PROPERTIES AND COMPARATIVE PERFORMANCE OF ELECTRODEPOSITED TERNE ALLOYS
67-07 M17-72768
THE ADHESION TESTING OF ELECTROPLATED COATINGS ON A B S MOLDINGS 67-09 M17-77540
INTERNAL STRESS OF ELECTRODEPOSITED NICKEL IRON FILMS 67-11 M17-80817

ELECTROPLATES, METALLOGRAPHY
METHODS OF STUDYING TEXTURE IN ELECTROLYTIC DEPOSITS 67-03 M13-65105
METHODS OF STUDYING TEXTURE IN ELECTROLYTIC DEPOSITS 67-07 M13-72787

ELECTROPLATES, MICROSTRUCTURE
STRUCTURE AND PROPERTIES OF LEAD-TIN ALLOYS
67-05 M13-69254
ELECTRODEPOSITION AT ROTATING CATHODES FROM ACIDIFIED COPPER SULPHATE SOLUTION
67-06 M12-70702

ELECTROPLATES, NONDESTRUCTIVE TESTING
WHAT YOU SHOULD KNOW ABOUT TESTING ELECTROPLATED COATINGS 67-06 M19-72252

ELECTROPLATES, NUCLEATION
THE BEHAVIOR OF NUCLEATION OF TIN ELECTRODEPOSITS ON COLD ROLLED STEEL SHEETS 67-06 M12-70781

ELECTROPLATES, PHASES /STATE OF MATTER/
PHASE CHANGES IN ELECTROLYTIC CO-P DEPOSITES DURING HEAT TREATMENT 67-08 M14-74925

ELECTROPLATES, PHYSICAL PROPERTIES
INFLUENCE OF THE ORGANIC ADDITIONS ON ELECTRODEPOSITION OF CADMIUM FROM SALT SOLUTIONS
67-01 M12-58709
DETERMINATION OF THE POROSITY OF GOLD ELECTRODEPOSITS BY QUANTITATIVE ELECTROGRAPHY
67-02 M12-60682
EFFECT OF SUBSTRATE ROUGHNESS ON THE POROSITY OF GOLD ELECTRODEPOSITS 67-02 M12-60683
A PHOTOMETRIC METHOD FOR DETERMINING REFLECTIVITY AND ADHERENCE OF DEPOSITED METAL
67-03 M12-65104
PHOTOMETRIC METHOD OF DETERMINING THE REFLECTING POWER OF DEPOSITED METAL AND ITS ADHESION TO THE SUBSTRATE 67-07 M12-72788
PROPERTIES AND CHARACTERISTICS OF HARD CHROMIUM COATINGS 67-07 M12-73077
INFLUENCE OF NEUTRAL SALTS ON THE QUALITY OF SILVER COATINGS DEPOSITED FROM CYANIDE ELECTROLYTES
67-11 M12-81298

ELECTROPLATES, QUALITY CONTROL
TESTING ELECTRODEPOSITED COATINGS
67-07 M19-72402

ELECTROPLATES, RESIDUAL STRESS
DETERMINING RESIDUAL STRESSES IN COATINGS BUILT UP ON CYLINDERS AND DISKS 67-03 M17-65101
DETERMINATION OF THE RESIDUAL STRESSES IN COATINGS DEPOSITED ON CYLINDERS AND DISCS
67-07 M17-72791

ELECTROPLATES, ROLLING
THE BEHAVIOR OF ELECTROPLATED NICKEL SUBLAYERS DURING ROLLING OF BIMETALS 67-10 M07-79812

ELECTROPLATES, STRESS ANALYSIS
ON THE X-RAY INVESTIGATION OF INTERNAL STRESSES IN METALS ELECTROLYTICALLY DEPOSITED IN THE PRESENCE OF INHIBITORS. PT. 2. ON LATTICE DEFORMATIONS OF THE SECOND AND THIRD KIND AND THE COMPARISON OF THEM WITH HARDNESS TESTS 67-01 M17-57291
INTERNAL STRESS IN ELECTRODEPOSITS
67-05 M12-71070

ELECTROPLATES, SURFACE FINISH
THE EFFECT OF THE UNDERLYING METAL ON THE INTERNAL STRESS AND FORMATION OF MICROCRACKS IN ELECTRODEPOSITED CHROMIUM 67-05 M12-68822

ELECTROPLATES, TEXTURE
EFFECT OF HEAT TREATMENT ON TEXTURE OF TI ALLOYS AND ON THE CR AND NI ELECTRO-DEPOSITED ON THEM
67-03 M14-65591

ELECTROPLATES, THICKNESS
MEASURING ELECTRODEPOSIT THICKNESS. A BETA BACK-SCATTER METHOD FOR THE PLATINUM METALS
67-05 M19-69287

ELECTROPLATES, X RAY ANALYSIS
THE X-RAY INVESTIGATION OF GOLD DEPOSITS
67-08 M19-75670

ELECTROPLATING
SEE ALSO BLACK PLATING
BRIGHT PLATING
BRUSH PLATING
CEM PROCESS
DUPLEX PLATING
ELECTROCLADDING
FLASH PLATING
ULTRASONIC PLATING
HEAVY ELECTRODEPOSITION FOR THE ENGINEER. PT. 4. HARD CHROMIUM PLATING 67-01 M12-57558
THE DEVELOPMENT OF TIN PLATING. PT. 3. WITH SPECIAL REFERENCE TO BRIGHT-TIN ELECTRODEPOSITION
67-01 M12-57560
COPPER PYROPHOSPHATE BATHS 67-01 M12-58121
FLUOROBORATE SOLUTIONS FOR ELECTROPLATING OF METALS FOR DECORATIVE AND TECHNICAL PURPOSES
67-01 M12-58392
ELECTROPLATING OF NOBLE METALS 67-01 M12-58393
LONG ALUMINUM EXTRUSIONS COATED IN VERTICAL FINISHING SYSTEM AT ELECTRO FINISH PLANT
67-01 M12-58452
METAL CLAD ELASTOMERIC CORE SEALS FOR LIQUID ROCKET PROPELLANTS 67-01 M12-58523
NEW PROCESSES FOR GALVANISING WIRE
67-01 M12-58575
LIQUID BRIGHT GOLD COATINGS AND GOLD LEAF
67-02 M12-58910
PLATING LEAD ON STEEL AT HIGH SPEED
67-02 M12-58973
BRIGHT SOLDER PLATE 67-02 M12-59044
SCIENCE FOR ELECTROPLATERS. PT. 3. RHODIUM BATHS
67-02 M12-59047
MODERN DEVELOPMENTS AND TRENDS IN ELECTROPLATING
67-02 M12-59970
THE EFFECT OF NONMETALLIC FILMS ON THE CONTACT RESISTANCE BETWEEN ELECTRICAL CONTACTS WHICH ARE ELECTROPLATED WITH SILVER 67-02 M12-59971
METHODS OF STATISTICAL QUALITY CONTROL IN ELECTROPLATING SHOPS 67-02 M12-60029
THE BULK ELECTROPLATING OF SMALL PRODUCTS OF FERROUS POWDER METALLURGY 67-02 M12-60031
METALLIC COATINGS ON PAPER AND PLASTICS
67-02 M12-60045
SOME PRODUCTION PLATING PROBLEMS AND HOW THEY WERE SOLVED. PT. 8 67-02 M12-60684
HIGHLIGHT DEVELOPMENTS IN PLATING
67-02 M12-60904

PLATING ON ALUMINUM AND ALUMINUM ALLOYS
67-02 M12-60991
DEFINITION OF ELECTROLYTES AND ELECTRODEPOSITS
67-02 M12-62288
ELECTRODEPOSITION FROM THE PYROPHOSPHATE BATH--TERNARY ALLOYS OF NICKEL-COBALT-IRON
67-03 M12-65043
ELECTROCOATING ALUMINUM EXTRUSIONS
67-03 M12-65486
ELECTROCOATING STEEL PIPE WITH DRY RESIN POWDER
67-03 M12-65487
COMPOSITION GRADIENTS IN ELECTROPLATED PERMALLOY FILMS
67-03 M12-65656
RECENT ELECTROPLATING RESEARCH IN LITHUANIA
67-03 M12-65657
ELECTRODEPOSITION OF SOME METALS FROM TETRAMETHYLUREA
67-03 M12-65809
PRODUCING A LAYER OF NICKEL AND COBALT BORIDES ON THE SURFACE OF IRON
67-03 M12-65973
PROGRESS IN THE BATTLE WITH CORROSION OF AUTOMOBILES
67-03 M18-65975
METALLIZED PLASTICS
67-04 M12-66672
POLARIZATION IN THE ELECTRODEPOSITION OF COPPER BY PULSED CURRENT
67-04 M12-66869
SURFACE TREATMENT OF BASE METALS PRIOR TO ELECTROPLATING. PT. 2
67-04 M12-67054
CATHODE POLARIZATION AND QUALITY OF DEPOSITES DURING BRASS PLATING IN PYROPHOSPHATE ELECTROLYTE
67-04 M12-67288
PLATED ABS CHALLENGES DIECASTINGS
67-04 M12-67488
PLATING METAL PARTS WITH MANUFACTURED DIAMONDS
67-04 M12-67794
SCIENCE FOR ELECTROPLATERS. PT. 114. RUTHENIUM-RHENIUM-IRIDIUM-INDIUM
67-05 M12-68493
ELECTROPLATING OF PLASTIC MOULDINGS
67-05 M12-68799
ELECTROCHEMICAL AND PHOTOCHEMICAL EFFECTS ON THE CATHODE EFFICIENCY OF AN INDIUM ELECTROPLATING BATH
67-05 M12-68818
POROSITY IN SINGLE AND MULTI-LAYER ELECTRODEPOSITS, AND ITS RELATION TO THE BASIS METAL STATE
67-05 M12-68819
THE REDUCTION OF COUMARIN IN THE ELECTRODEPOSITION OF NICKEL
67-05 M12-68821
ELECTRODEPOSITION OF RHODIUM AND RUTHENIUM FOR SLIP-RING SURFACES
67-05 M12-68826
THE ELECTRODEPOSITION OF IRIDIUM
67-05 M12-68829
THE ELECTRODEPOSITION OF ALUMINIUM
67-05 M12-68831
INSTITUTE OF METAL FINISHING TRANSACTIONS
67-05 M12-68833
METHOD OF ELECTRODEPOSITION OF A TIN-MOLYBDENUM ALLOY
67-05 M12-69056
OPERATING A BLACK CHROME BATH
67-05 M12-69558
WHATS NEW IN ELECTROPLATING
67-06 M12-70031
ELECTRODEPOSITED CONTACT METALS
67-06 M12-70601
PLATING ON ALUMINIUM BY THE ALSTAN 70 PROCESS
67-06 M12-70602
ADDITIVES IN HARD CHROMIUM PLATING BATHS
67-06 M12-71071
SCIENCE FOR ELECTROPLATERS
67-06 M12-71072
STABLE BATHS FOR ELECTROPLATING ZINC AND CADMIUM
67-06 M12-71199
THE ELECTROLYTIC PLATING OF METALS OF GROUPS IVA, VA AND VIA AND OF ACTINIDES
67-06 M12-71508
RAPID ANALYSIS IN ELECTROLYTIC OPERATIONS
67-06 M12-72156
THE STATE OF THE ART OF ELECTROPLATED ABS AND OTHER PLASTICS
67-07 M12-72769
DEVELOPMENTS IN NICKEL AND CHROMIUM DECORATIVE COATINGS AND IN ELECTROFORMING WITH NICKEL. PT. 1
67-07 M12-73129
PLATING ON TITANIUM AND ITS ALLOYS
67-07 M12-73627
SCIENCE FOR ELECTROPLATERS. PT. 115. ALLOYS
67-07 M12-73629
ELECTROPLATED PLASTICS IN THE ELECTRONICS INDUSTRY
67-07 M12-73642
COATING OF MOLYBDENUM WITH TITANIUM IN MOLTEN SALT ELECTROLYTE
67-07 M12-73658
THE CATHODIC AND ANODIC DEPOSITION OF PLASTICS ON METAL
67-07 M12-73818
DEVELOPMENTS AND TENDENCIES IN PRECIOUS-METAL ELECTROPLATING. PT. 4
67-07 M12-73820
FINISHING ALUMINUM BY ELECTROPLATING FROM AN ELECTROLESS BATH
67-08 M12-74397
PLATED-WIRE MEMORIES--UNIVACS BET TO REPLACE TOROIDAL FERRITE CORES
67-08 M12-74474
HOW ELECTROPLATING AFFECTS DIMENSIONS OF FASTENERS
67-08 M12-74493
FIRST ELECTRODEPOSITION LINE PAINTS DISKS
67-08 M12-74729
ELECTROPLATING
67-08 M12-74857
SELECTIVE PLATING REDUCES COST AND TIME
67-08 M12-75326
NOTES ON THE PHYSICAL PROCESSING TECHNOLOGY OF BULK ELECTROPLATING
67-08 M12-75501
THE EFFECT OF THE THROWING POWER OF SN-PB ELECTROLYTES ON THE UNIFORMITY OF LAYER THICKNESS IN PRODUCTION ELECTROPLATING
67-08 M12-75503
ELECTROPLATING
67-08 M12-75623
A COMPARATIVE STUDY OF SOME MODERN BRIGHT NICKEL-CHROMIUM SYSTEMS
67-08 M12-76076
LABORATORY STUDIES OF THE FORMATION OF THE INTERMETALLIC LAYER IN TINPLATE
67-08 M18-74670
PLATING PROGRESS
67-09 M12-76425
BATHING METAL WITH ALLOY COATINGS
67-09 M12-76448
METALLIC COATINGS SOLVE ENVIRONMENTAL PROBLEMS
67-09 M12-76469
PLATING LEAD ON STEEL
67-09 M12-76480
SUBSTRATE FOR MICROELECTRONICS MANUFACTURING PROCESS FOR EXTREMELY SMOOTH, CONDUCTIVE MATERIALS
67-09 M12-76689
DEVELOPMENTS AND TENDENCIES IN PRECIOUS-METAL ELECTROPLATING. PT. 6
67-09 M12-76690
ELECTROPLATING OF COBALT AND COBALT ALLOYS--A REVIEW
67-09 M12-76994
THE STANNATE PROCESS FOR ELECTROPLATING ALUMINUM
67-09 M12-77078
THE ELECTROPLATING OF PLASTICS--ITS PRESENT STATUS
67-09 M12-77535
THE IMPORTANCE OF MOULDING CONDITIONS TO THE QUALITY OF ELECTROPLATED ABS PLASTICS
67-09 M12-77537
INFLUENCES OF THERMOPLASTIC CONVERSION OF A B S POLYMERS ON THE SUBSEQUENT CHEMICAL-ELECTROLYTIC METAL DEPOSITION
67-09 M12-77538
ELECTROPLATING ON ALUMINIUM
67-09 M12-77555
NICKEL PLATING BY CHEMICAL REDUCTION
67-09 M12-77916
NICKEL PLATING URANIUM--REVIEW OF LABORATORY STUDIES
67-09 M12-78057
SOME PRODUCTION PLATING PROBLEMS AND HOW THEY WERE SOLVED. PT. 12
67-09 M12-78058
FUNDAMENTALS OF METAL DEPOSITION
67-09 M12-78187
STRESS CORROSION RESISTANCE OF AN ELECTROLYTICALLY ALUMINIZED STEEL
67-09 M18-78040
FILTRATION OF ELECTROPLATING SOLUTIONS
67-10 M12-78455
ELECTROCOATING OF EXTRUSIONS PROVIDES AN EVEN FINISH
67-10 M12-78463
PREPARATION OF SILVER CYANIDE BY ELECTROLYSIS
67-10 M12-78522
ELECTRODEPOSITION OF CU-SN ALLOYS WITH HIGH TIN CONTENT FROM PYROPHOSPHORIC ELECTROLYTE
67-10 M12-78530
ELECTRODEPOSITION OF COPPER FROM SULFATE ELECTROLYTE IN PRESENCE OF NITROGEN-CONTAINING ORGANIC COMPOUNDS
67-10 M12-78531
TROUBLE SHOOTING IN PLATING ON PLASTICS
67-10 M12-79310
DESIGN PRECEPTS FOR QUALITY PLATING
67-10 M12-79990
BEHAVIOR OF NICKEL ANODES IN PLATING ELECTROLYTES
67-11 M12-80417
THE ANODIC PROCESS IN MANGANESE PLATING
67-11 M12-80446
ELECTRODEPOSITION OF MANGANESE ALLOYS CONTAINING NICKEL FROM SULFATE ELECTROLYTES
67-11 M12-80456
PRODUCING GALVANIC COATINGS FROM A MN-CR ALLOY
67-11 M12-80458
PLATING
67-11 M12-80480
MYRIAD NEW SURFACE ALLOYS VIA ELECTROLYSIS
67-11 M12-80790
SEEBURG ELECTROCOATS VENDING MACHINE PARTS
67-11 M12-81537
WASHING AND RINSING, ESSENTIAL OPERATIONS IN ELECTROPLATING
67-11 M12-81698
PRACTICAL DETERMINATION OF PARAMETERS AND EFFICIENCY IN ELECTROPLATING
67-11 M12-81700

ELECTROPLATING
PLATING ON DIFFICULT-TO-PLATE MATERIALS 67-12 M12-81750
SOME GOOD TIPS FOR PLATING STEEL, BRASS AND DIE CASTINGS 67-12 M12-81933
ELECTROLYTIC METALLIDING 67-12 M12-82074
INVESTIGATIONS OF ELECTROCRYSTALLIZATION AT SILVER ELECTRODES 67-12 M12-82457
TINNING OF COPPER WIRE 67-12 M12-82653
ELECTROPLATED METALLIC COATINGS IN THE ELECTRICAL INDUSTRY 67-12 M12-82937
A NEW METHOD FOR SURFACE TREATMENT OF TI AND TI ALLOYS 67-12 M12-83257
THE ROLE OF DIFFUSION AND TRANSPORT OF MATERIAL IN THE ELECTROLYTIC DEPOSITION OF METALS 67-12 M12-83383
ABSORPTION OF HYDROGEN BY STEEL DURING PICKLING AND ELECTROPLATING 67-12 M17-82427
ELECTROPLATING, AUTOMATION
AUTOMATIC PLATING-SOLUTION FILTER CHANGES ITS OWN MEDIA 67-08 M12-76047
FULLY AUTOMATIC INSTALLATIONS FOR THE ELECTROLYTIC AND CHEMICAL SURFACE TREATMENT OF PRINTED CIRCUITS 67-10 M12-79887
ELECTROPLATING, THROWING POWER
THROWING POWER OF CUSO4-5H2O-H2SO4-H2O 67-01 M12-58707
ELECTROPLATING, ULTRASONICS
THE TREATMENT AND WORKING OF METALLIC SURFACES IN ULTRASONICALLY AGITATED BATHS 67-10 M12-79881
ELECTROPOLISHING
TITANIUM FIXTURES--THEIR CONSTRUCTION AND USE 67-01 M01-58122
EFFECTS OF ECMR ON MECHANICAL PROPERTIES OF METAL 67-01 M08-58686
ELECTROLYTIC POLISHING AND DEBURRING 67-01 M12-58611
BEHAVIOR OF MONOCRYSTALLINE AND POLYCRYSTALLINE NICKEL IN FUSED SALTS. METALLOGRAPHIC APPLICATION OF FUSED SALTS 67-01 M13-58305
CONTRIBUTION TO THE THEORY OF ELECTROCHEMICAL IMPEDANCES. APPLICATION TO A CASE OF ANODIC POLISHING 67-02 M12-59419
MODERN PRACTICES FOR FINISHING ALUMINUM--CLEANING AND BRIGHTENING 67-02 M12-59464
EXHIBITING THE FERRITE STRUCTURE IN 18-8 STAINLESS STEELS BY ELECTROLYTIC POLISHING 67-02 M13-60748
APPLICATION OF POLISHING BY ELECTROLYTIC FRICTION TO PARTICULAR CASES--METALLOGRAPHIC SPECIMENS WITH HARD THIN COATINGS OR WITH OXIDE FILMS 67-02 M13-60752
THE INFLUENCE OF FOREIGN METAL IONS IN CHROMIC AND PHOSPHORIC ACID ELECTROLYTES ON THE FORMATION OF ETCH FIGURES ON IRON-SILICON FILMS 67-03 M13-65903
ELECTROPOLISHING AS A PRETREATMENT TO THE APPLICATION OF PLASTIC-BASED PAINTS ON METALLIC BASES OF VARYING COMPOSITION 67-03 M18-65177
THE SURFACE TREATMENT OF BASE METALS PRIOR TO ELECTROPLATING --CONCLUSION-- 67-04 M12-66913
THE SIMULTANEOUS ELECTROPOLISHING OF BOTH FACES OF GERMANIUM SLICES 67-05 M12-68778
INVESTIGATION OF PROTECTIVE FILMS ON AL FORMED DURING ELECTROLYTIC AND CHEMICAL POLISHING 67-05 M12-68860
ELECTROLYTIC BRIGHTENING OF ALUMINUM 67-05 M12-69137
CHEMICAL AND ELECTROLYTIC BRIGHTENING OF ALUMINUM 67-05 M12-69894
NONDESTRUCTIVE METALLOGRAPHIC TECHNIQUES AND APPLICATIONS 67-05 M13-68301
ELECTROLYTIC POLISHING OF ALUMINUM GOLD ALLOYS 67-05 M13-69421
THINNING OF BI2TE3 SPECIMENS FOR TRANSMISSION ELECTRON MICROSCOPY 67-05 M13-69423
HYDRIDE FORMATION IN CORRODED TITANIUM ALLOYS 67-05 M18-68640
TECHNICAL ELECTROPOLISHING 67-06 M12-72038
THE BRIGHTNESS OF SURFACES AND OF ELECTRODEPOSITS AND ITS RELATION TO LEVELLING 67-06 M12-72193
THE PREPARATION OF THIN FOILS OF TITANIUM ALLOYS 67-06 M13-69950
NEW METHOD OF ELECTROLYTIC ATTACK USEFUL FOR OBSERVATION OF THE STRUCTURE AND SUBSTRUCTURE OF IRON 67-06 M13-70252
THE EFFECT OF THE SURFACE CHARACTERISTICS OF 18/8 AUSTENITIC STAINLESS STEEL UPON MICROGRAPHIC ETCHING 67-06 M13-71503
THE OXIDE-METAL INTERFACE OF ELECTROPOLISHED ALUMINUM 67-07 M12-72645
ELECTROPOLISHING OF PLATINUM FOILS AT -35 C. FOR TRANSMISSION ELECTRON MICROSCOPY 67-07 M13-72665
METHOD OF REMOVING THIN FOIL FROM WELDED JOINTS FOR THE STUDY OF DISLOCATION STRUCTURES 67-07 M13-72700
INFLUENCE OF ELECTROPOLISHING TEMPERATURE ON FATIGUE STRENGTH OF 12KHN3A STAINLESS STEEL 67-07 M17-73176
PREPARATION CAN LOWER COST OF PLATING ZINC DIE CASTINGS 67-08 M12-74494
CHEMICAL BRIGHTENING AND ELECTROBRIGHTENING 67-08 M12-74855
ELECTROLYTIC POLISHING OF CARBON STEEL TUBES 67-08 M12-75017
A RAPID TECHNIQUE FOR PREPARING THIN FOILS FOR ELECTRON MICROSCOPY. --IMPROVED JET-POLISHING METHOD-- 67-08 M13-75082
ELECTROPOLISHING NIOBIUM 67-08 M13-75299
PROOF OF DISLOCATIONS IN TUNGSTEN AND MOLYBDENUM BY ELECTROLYTIC ETCHING 67-08 M13-75601
PROGRESS IN THE FIELD OF ELECTROLYTIC POLISHING AND DEBURRING 67-09 M12-76700
ELECTROLYTIC POLISHING OF COPPER AND NICKEL SILVER 67-09 M12-77142
ANODIC DISSOLUTION OF SILVER SINGLE CRYSTAL FACES --111--, --100-- AND --110-- AND POLYCRYSTALLINE SILVER IN ARGENTOCYANIDE BATH 67-09 M12-78275
ELECTROCHEMICAL POLISHING OF GERMANIUM 67-09 M13-77094
ELECTROPOLISHING OF BISMUTH IN A SATURATED SOLUTION OF SODIUM CHLORIDE 67-09 M13-77095
POLISHING AND DENSIFICATION OF AL 67-10 M12-79886
NEW METALLOGRAPHIC PREPARATION METHOD 67-12 M13-83521
ELECTROPOTENTIAL
SEE ELECTRIC POTENTIAL
ELECTROREDUCTION
SEE ELECTROWINNING
ELECTROREFINING
PRODUCING HIGH-PURITY METALS BY AMALGAMOUS REFINEMENT 67-01 M03-57271
ELECTROREFINING OF TITANIUM-NITROGEN ALLOYS 67-02 M02-61775
METHOD OF PURIFICATION OF ANTIMONY FROM IRON 67-02 M03-60896
TREATING MOLTEN METALS WITH MULTIPLE ELECTRIC ARC COLUMNS 67-02 M03-60943
CALCULATING CURRENT EFFICIENCY WHEN ELECTROREFINING SLIME-FORMING COPPER ON REVERSE CURRENT 67-02 M03-61276
PRODUCTION OF BERYLLIUM ALLOYS 67-02 M03-61590
REYNOLDS EXPANDS PACIFIC NORTHWEST PRODUCTION 67-02 M03-61592
INTALCO--HIGHLY EFFICIENT PRODUCER 67-02 M03-61593
ELECTROLYTIC REFINING OF INDUSTRIAL WASTES OF TITANIUM ALLOYS 67-02 M03-61614
CHARACTERISTICS OF PRODUCTS OF ELECTROLYTIC REFINEMENT OF SOME TITANIUM WASTES 67-02 M03-62055
CONTINUOUS REFINEMENT OF ALUMINUM ALLOYS USING THE ELECTROSLAG PROCESS 67-02 M03-62172
NEW METHOD OF PURIFYING IRON BY ELECTROTRANSPORT IN FERROUS OXIDE 67-02 M04-58924
DESULFURIZING METAL DROPS IN THE SLAG BY ELECTRICAL CURRENT 67-02 M04-62173
AN IMPROVED METHOD FOR MAKING STARTING SHEETS FOR ELECTROLYTIC COPPER REFINING 67-03 M03-65086
SOLID-STATE ELECTROMIGRATION OF IMPURITIES IN CERIUM METAL 67-04 M03-66887
ELECTROCHEMICAL PURIFICATION OF A MELT CONTAINING ZIRCONIUM CHLORIDE 67-04 M03-66974
METHODS OF CONTINUOUSLY REFINING ALUMINIUM ALLOYS USING THE ELECTROSLAG PROCESS 67-04 M03-67171
AN AQUEOUS CHLORINATION PROCESS FOR THE TREATMENT OF MERRILL SLIMES AND GRAVITY CONCENTRATES FROM GOLD ORES. PT. 3. NOTES ON THE RECOVERY OF SILVER 67-04 M03-67758
DESULPHURISATION OF METAL DROPLETS IN SLAG BY PASSING AN ELECTRIC CURRENT 67-04 M04-67170
CEMENTATION OF CO FROM ZINC SOLUTIONS

67-05 M03-68957
RELATIONSHIP BETWEEN OXIDIZABILITY AND ELECTROCHEMICAL BEHAVIOR OF CARBON ATOMS DURING THE ELECTROLYSIS OF ALUMINUM 67-05 M03-68960
RELATIONSHIP BETWEEN DISTRIBUTION OF ANODIC CURRENT DENSITY AND FORM OF INTERPOLAR GAP IN INDUSTRIAL ALUMINUM BATHS 67-05 M03-68961
STUDY OF THE POLARIZATION ELECTROMOTIVE FORCES DURING ELECTROLYTIC DEPOSITION OF MG FROM AL-MG ALLOYS 67-05 M03-68962
PRODUCTION OF HIGH PURITY URANIUM BY FUSED SALT ELECTROLYSIS 67-06 M03-70019
FACTORS AFFECTING GALLIUM ELECTROLYSIS 67-06 M03-70905
INVESTIGATION ON THE ELECTRO-REFINING OF NICKEL 67-06 M03-71106
OPERATING AT ELEVATED CURRENT DENSITIES 67-06 M03-71344
ELECTROREFINING OF NICKEL WITH USE OF HIGH-SULFUR ANODES 67-06 M03-71349
PRODUCTION OF URANIUM METAL FROM URANIUM OXIDE BY FUSED SALT ELECTROLYSIS 67-06 M03-71698
METHOD OF OBTAINING IRON BY ELECTROLYSIS OF FUSED SALTS WITH CONSUMABLE ANODES 67-06 M04-70948
THE ONAHAMA COPPER SMELTER.. HOW JAPANS NEW COPPER SMELTER TREATS KUROKO AND OTHER ORES 67-07 M03-73213
CONTRIBUTION TO THE ELECTROLYTIC PRECIPITATION OF MANGANESE 67-07 M03-73225
PHENOMENON IN THE DIRECT ELECTROLYTIC REDUCTION OF RED LEAD ON MERCURY SUBSTRATE 67-07 M03-73299
ELECTROREFINING OF METALS IN FUSED MEDIA 67-08 M03-74387
ELECTROLYTIC MANGANESE AND ELECTROLYSIS OF CHLORIDES 67-08 M03-74478
ENERGY REQUIREMENTS IN THE ELECTRODEPOSITION OF COPPER 67-08 M03-74782
AN EXAMINATION OF MEMBRANES FROM ION-EXCHANGE MATERIALS IN THE ELECTROLYTIC REFINEMENT OF NICKEL 67-08 M03-75088
DTERMINING THE MOLAR RATIO OF NAP..A1F3, IN ELECTROLYTES OF ALUMINUM ELECTROLYZERS CONTAINING MAGNESIUM CHOLORIDE 67-08 M03-75091
REFINING PROCESSES 67-08 M03-75618
SLIMES TREATMENT AND SILVER REFINING OPERATIONS BY THE CERRO DE PASCO CORPORATION AT LA OROYA, PERU 67-08 M03-75619
EFFECT OF CERTAIN TECHNOLOGICAL FACTORS ON THE ELECTROREFINING OF TITANIUM AND TITANIUM ALLOY SCRAP 67-08 M03-75874
AN ELECTROLYTIC PROCESS FOR PRODUCING DUCTILE VANADIUM 67-08 M03-76160
THE PRODUCTION OF HIGH PURITY LEAD 67-09 M03-76619
STUDY OF ELECTRODE PROCESSES IN CHLORIDE-FLUORIDE ELECTROLYTE CONTAINING LITHIUM FLUORIDE IN ELECTROLYTIC REFINEMENT OF ALUMINUM 67-09 M03-77114
THE ELECTROLYTIC REFINEMENT OF TITANIUM ALLOYS 67-09 M03-77276
ELECTROREFINED METALS AND ULTRAPURE METALS 67-10 M03-78469
CONVERSION OF NICKEL CARBONATE INTO METALLIC NICKEL 67-10 M03-79852
ELECTROREFINING YTTRIUM 67-10 M03-79988
ELECTROREFINEMENT OF LEAN MANGANESE ORES AND SLIMES IN HYDROCHLORIC ELECTROLYTES, AS A METHOD OF BENEFICIATION 67-11 M02-80441
METHOD OF PRODUCING ALKALI METALS 67-11 M03-81223
EMF ELIMINATION OF NONMETALLIC INCLUSIONS FROM MOLTEN IRON 67-11 M04-81011
COMBINED LIQUATION-ELECTROLYTIC METHOD OF REFINING ALUMINUM ALLOYS 67-12 M03-83100
IMPURITIES IN ALUMINOTHERMIC CHROMIUM AND PURIFICATION OF THIS MATERIAL BY FUSED SALT ELECTROLYSIS 67-12 M03-83221

ELECTROSHAPING /MACHINING/
SEE ELECTROCHEMICAL MACHINING

ELECTROSLAG CASTING
SEE ELECTROSLAG PROCESS

ELECTROSLAG HEATING
SEE SLAG RESISTANCE HEATING

ELECTROSLAG MELTING
SEE ELECTROSLAG PROCESS

ELECTROSLAG PROCESS
IMPROVING THE QUALITY OF 40KHNMA STEEL BY ELECTROSLAG REMELTING 67-01 M04-57256
ANALYSIS OF THE INSTABILITY OF CONDITIONS DURING REMELTING OF METALS UNDER A FLUX 67-01 M04-57689
THE ELECTROSLAG REFINING PROCESS 67-01 M04-57975
ELECTRO-SLAG REFINING UNIT 67-01 M04-58796
CONTINUOUS REFINEMENT OF ALUMINUM ALLOYS USING THE ELECTROSLAG PROCESS 67-02 M03-62172
THE CURRENT PASSING IN THE WALLS OF CRYSTALLIZING PANS DURING MELTING UNDER A FLUX 67-02 M04-58891
IMPROVED QUALITY INGOT SURFACE FROM EI654 STEEL 67-02 M04-59593
IMPROVED QUALITY 30KHGSNASH STEEL PRODUCED BY ELECTRIC SLAG REMELTING 67-02 M04-59869
BEHAVIOR OF NITROGEN IN SLAGS AND IN THE METAL DURING MELTING OF ALLOY STEELS 67-02 M04-59878
BEHAVIOR OF AL IN THE PROCESS OF ELECTROSLAG REMELTING OF SILICON STEELS 67-02 M04-60132
DEOXIDATION IN ELECTROSLAG REMELTING 67-02 M04-61249
PHASE COMPOSITION OF FLUORINE-BEARING SLAGS OF ELECTROSLAG REMELTING 67-03 M13-65777
METHODS OF CONTINUOUSLY REFINING ALUMINIUM ALLOYS USING THE ELECTROSLAG PROCESS 67-04 M03-67171
DISTRIBUTION OF SULFUR BETWEEN SLAG AND METAL IN ELECTROSLAG REMELTING 67-04 M04-66040
DEOXIDATION PROCESSES DURING ELECTROSLAG REMELTING 67-04 M04-66522
THE ROLE OF THE GAS PHASE IN THE OXIDATION OF TITANIUM AND ALUMINUM DURING ELECTRO-MELTING OF STAINLESS STEEL 67-04 M04-66613
REVIEW ON ELECTROSLAG REMELTING 67-04 M04-67185
RESEARCH ON THE INFLUENCE OF ELECTROSLAG REMELTING ON THE QUALITY OF BEARING STEEL 67-04 M04-67369
THE BEHAVIOR OF ALUMINIUM DURING THE ELECTROSLAG REMELTING OF SILICON STEELS 67-04 M04-67672
THE OXIDIZING PROCESSES TAKING PLACE DURING ELECTROSLAG REMELTING 67-04 M04-67875
INFLUENCE OF PRODUCTION METHOD ON PROPERTIES, PHASE COMPOSITION, AND STRUCTURE OF KHN77TYUR ALLOY 67-04 M14-67687
ELECTROSLAG REMELTING OF CU 67-05 M03-68233
INFLUENCE OF PRELIMINARY DEOXIDATION ON QUALITY OF OPENHEARTH STEEL TREATED WITH ANYTHETIC SLAG IN A LADLE 67-05 M04-68546
ELECTROSLAG REFINING PROMISES BETTER QUALITY TOOL STEELS 67-05 M04-68933
ELECTROSLAG REMELTING OF EI481 CR-MN-NI HEAT RESISTANT STEEL 67-05 M04-69685
SOME PROBLEMS IN THE CRYSTALLIZATION OF AN INGOT FROM ELECTROSLAG REMELT. PT. 2 67-06 M04-70275
POTENTIAL OF ELECTROSLAG REFINING 67-06 M04-71580
LAMINAR CRYSTALLIZATION OF ELECTROSLAG MELTED INGOTS 67-06 M13-72305
DENSITY OF LIQUID FLUXES FOR ELECTROSLAG REMELTING AND HEATING 67-06 M15-71848
EFFECT OF PRELIMINARY DEOXIDATION ON QUALITY OF OPEN-HEARTH STEEL TREATED WITH SYNTHETIC SLAG IN THE LADLE 67-07 M04-72457
ELECTROSLAG REFINING AT HALL AND PICKLES 67-07 M04-72485
ELECTROSLAG REMELTING OF CHROMIUM-MANGANESE-NICKEL HEAT-RESISTING EI481 STEEL 67-07 M04-74071
A COMPARATIVE ANALYSIS OF THE TECHNICAL-ECONOMIC INDEXES OF STEEL PRODUCTION IN VACUUM ARC AND ELECTROSLAG FURNACES 67-08 M04-74350
STUDY OF THE EFFECT OF OXIDIZING POTENTIAL OF GAS ATMOSPHERE ON DEGREE OF DESULFURIZATION IN ELECTROSLAG REMELTING 67-08 M04-75868
METALLURGICAL FACTORS AFFECTING PROPERTIES OF HEAT RESISTANT STEELS 67-09 M04-76813
STUDY OF THE EFFECT OF REPEATED ELECTROSLAG REMELTING ON THE QUALITY OF BALLBEARING STEELS 67-09 M04-76828
THE PRESENT STATE OF REMELTING HIGH-QUALITY STEEL BY SPECIAL METHODS 67-09 M04-77214
ERECTION AND START UP OF A VACUUM STEEL WORKS FOR PRODUCTION OF HIGH-QUALITY STEEL AT FREITAL 67-09 M04-77215
PRACTICAL EXPERIENCE FROM THE EXPERIMENTAL OPERATION OF A 1-TON ELECTROSLAG REMELTING PLANT 67-09 M04-77224

ELECTROSLAG PROCESS

MODIFICATION OF THE PURITY LEVEL OF ROLLER BEARING STEEL THROUGH REMELTING AND SPECIAL METHODS 67-09 M04-77226
COMPLEX IMPROVEMENT OF INGOT QUALITY BY CASTING THE STEEL UNDER SLAG AND HEATING THE FEEDER HEADS 67-09 M04-77361
ELECTRO-SLAG REFINING TECHNOLOGY 67-09 M04-77800
SOME METALLURGICAL PROBLEMS IN ELECTROSLAG REMELTING 67-09 M04-77864
THE AUSTENITIC GRAIN GROWTH OF SPECIALLY REMELTED STEELS UNDER CERTAIN CONSIDERATIONS OF GROWTH INHIBITING INFLUENCES 67-09 M14-77227
SURFACE ACTIVITY IN ELECTROSLAG REMELTING 67-10 M04-78426
REMOVAL OF NONMETALLIC INCLUSIONS FROM METAL IN ELECTROSLAG REMELTING 67-10 M04-78427
METALLURGICAL PHENOMENA TAKING PLACE DURING MELTING IN THE ELECTRON BEAM FURNACE, IN THE ELECTROSLAG MELTING INSTALLATION AND IN THE PLASMA FURNACE 67-10 M04-79182
DISSOLUTION OF ALLOYING ELEMENTS IN ELECTROSLAG REMELTING 67-10 M04-79317
EXTRANEOUS INCLUSIONS IN ELECTROSLAG AND VACUUM-ARC REMELTED STEEL 67-10 M04-79814
U. S. GAINS ON ELECTROSLAG MELTING 67-10 M04-79983
CHANGES IN VARIOUS MECHANICAL AND SERVICE PROPERTIES THROUGH REMELTING BY SPECIAL METHODS 67-11 M04-80201
THE CURRENT POSITION OF THE DEVELOPMENT AND USE OF ELECTROSLAG REMELTING IN THE CZECHOSLOVAKIAN IRON AND STEEL WORKS 67-11 M04-80207
BEHAVIOR OF OXYGEN IN ELECTROSLAG REMELTING 67-11 M04-80208
THE INFLUENCE OF THE OXIDATION POTENTIAL OF THE GAS PHASE ON THE REMOVAL OF SULFUR AND NONMETALLIC INCLUSIONS IN THE ELECTROSLAG REMELTING OF STEEL 67-11 M04-80209
THE INFLUENCE OF ELECTROSLAG REMELTING ON THE QUALITY OF ROLLER BEARING STEEL 67-11 M04-80210
IMPROVING STEEL QUALITY THROUGH VACUUM ELECTRIC ARC MELTING AND THROUGH ELECTROSLAG REMELTING 67-11 M04-80211
CAST STRUCTURE AND HOMOGENEITY OF INGOTS REMELTED BY SPECIAL TECHNIQUES 67-11 M04-80213
ELECTROSLAG REMELTING AT ESC 67-11 M04-80403
IMPROVING THE QUALITY OF DI-1 STEEL IN ELECTROSLAG AND VACUUM ARC MELTING 67-11 M04-80856
ELECTROSLAG REFINING TECHNOLOGY 67-11 M04-80932
THE LAYER BY LAYER SOLIDIFICATION OF ELECTROSLAG REMELTED INGOTS 67-11 M13-81577
THE QUESTION OF THE CHANGES OF THE SOLUTION AND TRANSFORMATION BEHAVIOR OF ROLLER BEARING STEEL, 100 CR 6, AFTER REMELTING WITH THE ESU PROCESS WITH CONSIDERATION FOR THE FABRICATION OF SCIENTIFIC APPARATUS 67-11 M14-80215
THE DENSITY OF FUSED FLUXES USED FOR ELECTROSLAG REMELTING AND THE ELECTROSLAG HEATING OF INGOT FEEDER HEADS 67-11 M15-80880
INFLUENCE OF THE MELTING PROCESS ON THE NOTCH TOUGHNESS OF 100 CR 6 STEEL 67-11 M17-80217
PORTEVIN LECTURE--WELDING AND SPECIAL ELECTROMETALLURGY 67-12 M01-83212
COMPARATIVE EFFICIENCY OF VARIOUS METHODS OF PRODUCING CONSUMABLE ELECTRODES FOR ELECTROSLAG REMELTING 67-12 M04-81730
ELECTROSLAG REMELTING AT ESC 67-12 M04-81952
RESULTS OF AN INDUCTRIAL APPLICATION OF ELECTROSLAG REMELTING 67-12 M04-83336
REACTION SURFACE IN ELECTROSLAG REMELTING 67-12 M04-83424
REMOVAL OF NON-METALLIC INCLUSIONS FROM METAL DURING ELECTROSLAG REMELTING 67-12 M04-83425
CONTROLLED CRYSTALLIZATION BY ELECTROSLAG REMELTING AND HOW IT AFFECTS THE PROPERTIES OF SPECIAL STEELS AND ALLOYS 67-12 M04-83470

ELECTROSLAG PROCESS, AUTOMATIC CONTROL
PROGRAMED ELECTROSLAG REMELTING 67-06 M04-71373

ELECTROSLAG PROCESS, AUTOMATION
DESIGN AND CONSTRUCTION OF A PILOT PLANT FOR ELECTROSLAG REMELTING 67-09 M04-77223
PROGRAMMED ELECTROSLAG REMELTING 67-11 M04-81316

ELECTROSLAG REFINING
SEE ELECTROSLAG PROCESS

ELECTROSLAG SURFACING
PROBLEMS IN THE ELECTROSLAG-COAT-WELDING OF CAST IRON 67-12 M11-81747

ELECTROSLAG WELDING
CONSUMABLE GUIDE WELDING RESEARCH AT BWRA 67-01 M11-57215
TIME-TEMPERATURE DEFORMATIONS DURING ELECTROSLAG WELDING 67-01 M11-57390
WHEN WAS THE LAST TIME YOU THOUGHT ABOUT ELECTROSLAG WELDING 67-01 M11-58016
ELECTROSLAG WELDED STRUCTURE DESIGN 67-01 M11-58065
TEMPORARY STRUCTURAL DEFORMATIONS IN ELECTROSLAG WELDING 67-01 M11-58207
CARBON DISTRIBUTION IN WELD METAL IN SEMI-AUTOMATIC ELECTROSLAG WELDING 67-01 M11-58218
ELECTROSLAG WELDING OF THIN PLATES AND APPLICATION TO BLAST FURNACE AND HOT STOVE 67-01 M11-58566
ELECTROSLAG RECLAMATION OF ROLLING ROLLS 67-02 M11-59584
THE SEMI-AUTOMATIC ELECTROSLAG WELDING OF BUTT JOINTS IN CONCRETE REINFORCEMENT, USING GRAPHITE MOLDS 67-02 M11-59793
GENERAL TECHNOLOGICAL INSTRUCTIONS ON BUILDING UP ROLLS FOR TUBE MILLS 67-02 M11-61064
STRUCTURE OF TRANSITION ZONES IN ELECTROSLAG BUILDUP WITH A COMPOUND ELECTRODE 67-02 M11-62170
CIRCULAR ELECTROSLAG DEPOSIT WELDING OF PARTS IN VERTICAL POSITION 67-02 M12-61252
PROPERTIES OF WELD METAL AND HEAT AFFECTED ZONE IN ELECTROSLAG WELDING OF 15KH2MF STEEL 67-02 M17-61270
AUTOMATIC WELDING OF THICK SECTIONS 67-03 M11-65063
ACCEPTANCE TESTING OF LOW-CARBON AND LOW-ALLOY STRUCTURAL STEELS FOR WELDABILITY 67-04 M11-66436
THERMAL CYCLE OF THE WELD-AFFECTED ZONE IN ELECTROSLAG WELDING OF ALUMINUM ALLOYS 67-04 M11-66806
REPAIRING A CORE DRILL BY ELECTROSLAG WELDING 67-04 M11-67999
THE CIRCUMFERENTIAL ELECTROSLAG BUILDING UP OF CYLINDRICAL COMPONENTS 67-04 M12-66525
FEATURES OF THE TRANSITION ZONES DURING ELECTROSLAG METAL DEPOSITION USING COMPOSITE ELECTRODES 67-04 M12-67177
VARIETY AND COMPLEXITY OF CONTROLS INVOLVED IN FABRICATION OF HEAVY-WALL WELDED CONSTRUCTIONS 67-05 M11-69328
FACTORS INFLUENCING THE QUALITY OF ELECTROSLAG WELDED JOINTS 67-05 M11-69330
CONSIDERATIONS ON THE EFFECT OF P AND N ON THE DUCTILITY OF ELECTROSLAG WELDS 67-05 M11-69331
ELECTROSLAG WELDING OF TITANIUM WITH A CONSUMABLE TIP 67-05 M11-69414
WELD METAL AND HEAT AFFECTED ZONE PROPERTIES OF ELECTROSLAG WELDS IN 15KH2MF STEEL 67-05 M17-68270
ELECTROSLAG WELDING OF HEAVY-GAGE KH17N13M3T STEEL 67-05 M17-69416
THE ADDITION OF FERROALLOYS TO THE ELECTROSLAG BUILDUP WELDING OF TURASS ANGLES 67-06 M11-70461
CAST-WELD FABRICATION SPURRED BY ELECTROSLAG PROCESS 67-06 M11-71009
ELECTROSLAG WELDING HELPS ESCO FABRICATE LARGEST STAINLESS NUCLEAR PUMPS 67-06 M11-71038
CHARACTERISTICS OF WELDING OF STRUCTURAL STEEL REFINED IN A LADLE WITH SYNTHETIC SLAG 67-06 M11-71840
USE OF SUBLAYER FOR ELECTROSLAG DEPOSIT WELDING OF G13 STEEL ON LOW-CARBON STEEL 67-06 M11-72308
WELDABILITY TESTS FOR MILD AND LOW ALLOY STRUCTURAL STEELS 67-07 M11-72695
THE FABRICATION OF REACTOR PRESSURE VESSELS AND REACTOR COMPONENTS WITH SPECIAL REGARD TO WELDING 67-07 M11-73466
SOME OBSERVATIONS ON THE WELDING OF MIXED FABRICATIONS 67-07 M11-73612
NEW HORIZONS ON THE WELDING SCENE 67-07 M11-73882
WORLDS LARGEST NUCLEAR ENERGY PUMP CASES ARE WELDED WITH ELECTROSLAG PROCESS 67-07 M11-74279

NEW SINGLE-PASS WELDING METHOD NOW AVAILABLE
67-08 M11-74653
RECLAMATION OF OLD AND PRODUCTION OF NEW DROP FORGING DIES BY ELECTROSLAG WELDING
67-08 M11-75412
THE THERMAL CYCLE IN THE HEAT AFFECTED ZONE DURING THE ELECTROSLAG WELDING OF ALUMINIUM ALLOYS
67-08 M11-75910
ELECTROSLAG WELDING OF OIL REFINING MACHINERY
67-09 M11-76518
ELECTROSLAG WELDING OF HEAT RESISTANT AUSTENITIC EI725 --KHN35VTR-- ALLOY 67-09 M11-76844
ELECTROSLAG WELDING IN THE MANUFACTURE OF CRANKSHAFTS 67-09 M11-76900
THE INFLUENCE OF TITANIUM ON THE ELECTROSLAG WELDING OF STEEL 67-09 M11-77341
ELECTROSLAG WELDING OF HIGH-ALLOY STEELS OF VARIOUS CLASSES 67-09 M11-77607
ELECTROSLAG WELDING OF CRANE TRACK RAILS
67-09 M11-77612
DISSOLUTION KINETICS OF STEEL IN COPPER AND OF COPPER IN ALUMINUM UNDER WELDING CONDITIONS
67-09 M11-78116
ELECTROSLAG WELDING WITH COATED CONSUMABLE NOZZLES
67-09 M11-78150
FATIGUE STRENGTH OF WELDED JOINTS BETWEEN DISSIMILAR STEELS 67-09 M17-77237
ELECTROSLAG WELDING OF BLAST FURNACE JACKETS
67-10 M11-78420
THE ELECTROSLAG WELDING OF TITANIUM WITH A CONSUMABLE GUIDE 67-10 M11-78518
THE WELDING OF HEAVY MACHINERY AND APPARATUS
67-10 M11-78644
THE PRODUCTION OF WELDED PARTS FOR MACHINE CONSTRUCTION 67-10 M11-79489
THE ELECTROSLAG WELDING OF KH17N13M3T STEEL PLATE
67-10 M17-78520
WELDING THICK-WALLED STAINLESS STEEL CHEMICAL APPARATUS 67-11 M11-80545
WELDING STRUCTURAL STEEL WHICH HAS BEEN REFINED IN THE LADLE WITH MOLTEN SYNTHETIC SLAG
67-11 M11-80872
THE APPLICATION OF AN INTERLAYER BEFORE G13 STEEL IS DEPOSITED 67-11 M11-81580
HETEROGENEITY AND AUSTENITE GRAIN GROWTH IN ELECTROSLAG WELDING OF 15KH2MF STEEL
67-11 M14-80552
CERTAIN CHARACTERISTICS OF ELECTROSLAG WELDING OF STEEL OF SMALL THICKNESSES 67-12 M11-81918
RECONDITIONING WORN DROP STAMP DIES AND PRODUCING NEW DIES 67-12 M11-82033
PROPERTIES OF ELECTROSLAG WELDS OF AMG6 AL ALLOY
67-12 M11-82624
ELECTROSLAG WELDING OF ALUMINUM AND ITS ALLOYS
67-12 M11-82636
ELECTROSLAG WELDING IN NAVAL CONSTRUCTION. AUTOMATIC VERTICAL WELDING OF SHIP HULL SIDES
67-12 M11-83204
ELECTROSLAG WELDING OF STACK SHELL OF A BLAST FURNACE 67-12 M11-83418

ELECTROSLAG WELDING, HEAT TRANSFER
CALCULATING THE THERMAL CYCLE IN ELECTROSLAG WELDING 67-02 M11-62160
CALCULATING THERMAL CYCLES DURING ELECTROSLAG WELDING 67-04 M11-67167

ELECTROSPARK MACHINING
SEE SPARK MACHINING

ELECTROSPRAYING
PREVENTING THE CORROSION OF SULFURIC ACID APPARATUS BY METAL SPRAYING 67-06 M12-70399

ELECTROSTAINING
SEE ANODIZING
COLORING

ELECTROSTATIC COATING
LONG ALUMINUM EXTRUSIONS COATED IN VERTICAL FINISHING SYSTEM AT ELECTRO FINISH PLANT
67-01 M12-58452
ANODIC BEHAVIOR IN ELECTROPHORETIC COATING ON ALUMINUM ALLOYS 67-01 M12-58613
ELECTRODE POTENTIAL DURING ELECTROPHORETIC COATING 67-01 M12-58617
FUNDAMENTAL PRINCIPLES AND APPLICATIONS OF ELECTROPHORETIC COATING 67-02 M12-60218
NEW EXPERIENCE WITH ELECTROPHORETIC PAINTING INSTALLATIONS 67-02 M12-60219
THE ELECTROPHORETIC PAINTING TECHNIQUE IN LARGE MODERN INSTALLATIONS 67-02 M12-60220
ELECTROCOATING STEEL PIPE WITH DRY RESIN POWDER
67-03 M12-65487
NEW ON THE FINISHING FRONT--ELECTROSTATIC POWDER SPRAYING 67-04 M12-66157
METALLIZING. PT. 6, 7 AND 8. PLASTIC COATINGS, METAL COATING APPLICATIONS, PERSONNEL AND HYGIENE
67-04 M12-66657
METALLIZED PLASTICS 67-04 M12-66672
DEVELOPMENTS IN ELECTROSTATIC SPRAY PAINTING AND FLUIDIZED BED COATING 67-05 M12-68825
INSTITUTE OF METAL FINISHING TRANSACTIONS
67-05 M12-68833
MULTI-DUTY COATING FOR NONFERROUS METALS
67-06 M12-70226
PHOTO EMULSION COATINGS SPRAYED ELECTROSTATICALLY
67-06 M12-71560
ELECTROSTATIC POWDER COATINGS 67-07 M12-72935
ELECTROCOAT PAINTING OF PETROL TANKS
67-07 M12-73160
FIRST ELECTRODEPOSITION LINE PAINTS DISKS
67-08 M12-74729
PAINTING GALVANIZED STEEL FRAMES
67-08 M12-75397
ORGANIC COATING OF ALUMINUM EXTRUSIONS
67-10 M12-78462
COATING WITH PLASTIC POWDERS. PT. 1. IMPROVED PLASTIC COATING TECHNIQUES 67-10 M12-78704
ELECTROSTATIC SETUP PAINTS LONG SLENDER ALUMINUM EXTRUSIONS 67-10 M12-79105
ELECTRODEPOSITING PAINT--MATERIALS, PROCEDURES, EQUIPMENT 67-10 M12-79309
ELECTROSTATIC SPRAYING OF POWDERS
67-10 M12-79786

ELECTROSTATIC FIELDS
CALCULATION OF EFFECTIVE FORCES ON AN IMPURITY OF A METAL SUBJECTED TO A TEMPERATURE GRADIENT
67-07 M15-73632

ELECTROSTATIC PAINTING
SEE ELECTROSTATIC COATING
PAINTING

ELECTROSTATIC PRECIPITATION
REMOVAL OF DUST FROM ELECTRIC FURNACE WASTE GASES. PT. 1. EXPERIENCE WITH WET DUST REMOVAL BY VENTURI SCRUBBERS. PT. 2. EXPERIENCE WITH A DRY ELECTROSTATIC FILTER ON A 100-M TON ELECTRIC ARC FURNACE. PT. 3. EXTRACTION OF DUST FROM ARC FURNACES BY MEANS OF ELECTROFILTERS. PT. 4. EXPERIENCE WITH DRAWING OFF THE WASTE GASES AND WITH ELECTRICAL DUST EXTRACTION ON ARC FURNACES 67-07 M04-73240
THE ELECTRICAL RESISTIVITY OF PB AND ZN COMPOUNDS. A CONTRIBUTION TO THE PROBLEM OF ELECTRIC GAS PURIFICATION 67-08 M03-74445

ELECTROSTATIC PRECIPITATORS
ELECTRICAL CLEANING OF THE WASTE GASES FROM ELECTRODE KILNS 67-06 M05-71837
DESIGN OF A HOT BLAST CUPOLA PLANT WITH A WET ELECTROSTATIC PRECIPITATOR FOR CLEANING THE STACK GAS 67-07 M04-73242
EXPERIENCE IN COLLECTION OF IRON OXIDE FUME FROM IRON AND STEELMAKING PROCESSES BY ELECTROFILTERS IN FOUNDRIES 67-11 M04-80534

ELECTROTHERMAL REDUCTION
THE PRESENT STATUS AND FUTURE PROSPECTS IN INDIA FOR THE ELECTROLYTIC RECOVERY OF METALS FROM FUSED MELTS 67-08 M03-74386
STATE OF ELECTROTHERMIC ZN PRODUCTION AT DUISBERGER COPPER WORKS 67-08 M03-76259
THE PRODUCTION OF LOW CARBON FERROMANGANESE FROM LIQUID MANGANESE SILICIDE IN A FUEL FIRED ROTARY FURNACE 67-08 M04-76191

ELECTROTHERMIC SMELTING
SEE ELECTROTHERMAL REDUCTION

ELECTROTHINNING
SEE ELECTROLYTIC ETCHING

ELECTROTINNING
SEE ELECTROPLATING
TIN PLATING

ELECTROWINNING
SEE ALSO HALL HEROULT PROCESS
HYDROMETALLURGICAL PROCESSING OF INTERMEDIATE PRODUCTS OF BENEFICIATION OF UDOKAN COPPER ORES
67-02 M03-59541
EFFECT OF IRON IMPURITIES ON ELECTROLYSIS OF MAGNESIUM CHLORIDE 67-02 M03-59691
ELECTROLYTIC METHODS FOR PRODUCING TITANIUM AND TITANIUM ALLOYS 67-02 M03-60229
ELECTROWINNING AND TAPPING OF LANTHANUM METAL
67-02 M03-61135
A HIGH-TEMPERATURE ELECTROWINNING CELL FOR RARE EARTHS 67-02 M03-61589

ELECTROWINNING

ELECTRICAL EXTRACTION OF COBALT FROM SULFATE SOLUTIONS 67-02 M03-61606
ELECTROLYSIS OF DUMP SLAGS FROM COPPER SMELTING 67-03 M03-65576
THERMODYNAMIC PROPERTIES OF MGCL2 IN CHLORIDE MELTS 67-03 M03-65580
DEPOSITION OF GERMANIUM BY TANNIN FROM SULFURIC ACID SOLUTIONS 67-03 MC3-65584
IMPROVING THE UTILIZATION OF THE PRODUCTION CAPACITY OF ELECTROLYSIS SHOPS OF ALUMINUM WORKS 67-03 M03-65595
ELECTROLYTIC RECOVERY OF TIN FROM TIN-PLATE SCRAP 67-04 M03-66306
ELECTRODEPOSITED METALS HARVESTED WITH ELECTROHYDRAULIC SHAKER 67-04 M03-66736
ON ECONOMICAL CURRENT DENSITY IN CHLORIDE ELECTROLYSIS OF NICKEL 67-04 M03-66966
INDUSTRIAL TESTS ON THE INTENSIFICATION OF MAGNESIUM ELECTROLYZERS WITH SIDE ANODE SUPPLY 67-04 M03-66972
STARTING UP MAGNESIUM ELECTROLYZERS AT A FULL LEVEL OF ELECTROLYTE 67-05 M03-68230
STUDY OF THE ELECTROCHEMICAL PROPERTIES OF TL 67-05 M03-68968
HYDROMETALLURGICAL PROCESSING OF LEAD-CONTAINING SLIP 67-06 M03-70331
THE EXTRACTION OF GALLIUM CHLORIDE BY TRIBUTYL PHOSPHATE AND THE RECOVERY OF GALLIUM FROM BAYER LIQUOR 67-06 M03-71060
TREATING DROSS BY ANODIC DISSOLUTION IN SULFAMINE ELECTROLYTE 67-06 M03-71345
HIGH-PURITY TITANIUM ELECTROWON FROM TITANIUM TETRACHLORIDE 67-06 M03-71386
HIGH-SPEED ELECTROSEPARATION OF FINE-GRAINED MATERIALS 67-07 M02-72778
LABORATORY STUDIES ON THE HYDROMETALLURGICAL TREATMENT OF COPPER-LEAD-ZINC INTERMEDIATE PRODUCTS 67-07 M03-72782
PROCESSING OXIDE AND CARBONATE MANGANESE ORES, BENEFICIATION TAILINGS AND BYPRODUCTS CONTAINING MANGANESE 67-07 M03-73038
ELECTROWINNING HIGH-PURITY NEODYMIUM, PRASEODYMIUM, AND DIDYMIUM METALS FROM THEIR OXIDES 67-07 M03-73196
CONTRIBUTION TO THE ELECTROLYTIC PRECIPITATION OF MANGANESE 67-07 M03-73225
EFFECT OF SOLUTION COMPOSITION IN GA DEPOSITION ON A GA CATHODE LAYER 67-07 M03-73470
REDUCTION OF SAMARIUM IONS ON A GALLIUM CATHODE LAYER 67-07 M03-73477
INVESTIGATION OF THE MANUFACTURING PROCESS OF ELECTROLYTIC MANGANESE FROM MANGANESE CONCENTRATES 67-09 M03-76824
PILOT TRIALS SET FOR COPPER ELECTROWINNING 67-09 M03-77099
EFFECT OF CERTAIN FACTORS ON THE ELECTROCRYSTALLIZATION OF TITANIUM FROM SALT MELTS 67-09 M03-77275
ALKALI-ELECTROLYTIC METHOD FOR EXTRACTION OF ARSENIC FROM CONVERTER DUST 67-10 M03-79037
IMPROVING CURRENT EFFICIENCY DURING ELECTROWINNING OF ANTIMONY FROM THE SULFIDE-ALKALINE SOLUTIONS 67-10 M03-79135
CONVERSION OF NICKEL CARBONATE INTO METALLIC NICKEL 67-10 M03-79852
REACTION RATE OF SOLID YTTRIUM METAL WITH MOLTEN LITHIUM FLUORIDE 67-10 M14-79688
ELECTROCHEMISTRY AND THE EXTRACTION OF MANGANESE AND ITS COMPOUNDS 67-11 M03-80425
DATA ON THE POLARIZATION OF ELECTRODES IN SOLUTIONS, RELATED TO THE EXTRACTION OF MANGANESE BY ELECTROLYSIS 67-11 M03-80426
SOME PROBLEMS IN REFINING FERROMANGANESE IN MOLTEN ELECTROLYTES 67-11 M03-80427
THE PRODUCTION OF ELECTROLYTIC MANGANESE FROM FERROMANGANESE BY THE CLOSED PRODUCTION CYCLE 67-11 M03-80429
ELECTROLYSIS OF NITRATE OF MANGANESE SOLUTIONS 67-11 M03-80430
METHODS OF INCREASING CURRENT EFFICIENCY IN THE ELECTROLYTIC EXTRACTION OF MANGANESE. EFFECT OF PHENOL 67-11 M03-80431
EXTRACTION OF CHLOROUS MANGANESE, CHLORINE, AND ELECTROLYTE FOR ELECTROLYTIC MANGANESE FROM OXIDI MANGANESE ORE AND HYDROCHLORIC ACID 67-11 M03-80436
EXTRACTION OF MNO2 BY ELECTROLYSIS FROM INTERMEDIATE PRODUCTS BY HYDROCHLORIC PROCESSING OF LEAN CARBONATE ORES 67-11 M03-80437
SIMULTANEOUS ELECTRODEPOSITION OF NICKEL WITH RHENIUM AND MOLYBDENUM FROM SULFATE-AMMONIA ELECTROLYTE AND THE MECHANISM OF THIS PROCESS 67-11 M03-80439
ANODIC BEHAVIOR OF MANGANESE PHOSPHIDE --METAL BYPRODUCT--IN CHLORIDIC ELECTROLYTE 67-11 M03-80443
ON THE ELECTRODEPOSITION OF MANGANESE FROM SULFURIC ACID SOLUTIONS UNDER THE EFFECTS OF CERTAIN ADDITIVES 67-11 M03-80451
STUDY OF THE ELECTROLYSIS OF MANGANESE CHLORIDE SOLUTIONS 67-11 M03-80453
ALUMINUM ELECTROLYSIS. --HIGH-DUTY ALUMINUM ELECTROLYTIC CELLS WITH UPPER CURRENT SUPPLY-- 67-11 M03-81226
GRAPHITE AS CATHODE MATERIAL FOR THE PRODUCTION OF HIGH-PURITY METALS 67-11 M03-81433
ELECTROLYTIC CODEPOSITION OF COBALT AND NICKEL FROM FLUORIDE-CHLORIDE ELECTROLYTE 67-11 M03-81465
EFFECT OF CADMIUM, CHLORINE, SODIUM, POTASSIUM AND GERMANIUM CONTENTS ON THE TECHNICAL RESULTS OF ZINC ELECTROLYSIS 67-11 M03-81618
AUTOMATIC ELECTROLYTIC CELL FOR OBTAINING METAL POWDERS BY ELECTROLYSIS OF AQUEOUS SALT SOLUTIONS 67-11 M09-81601
REVIEW OF ELECTROLYTIC AND THERMAL REDUCTION METHODS--THE PRESENT INDUSTRIAL USE FOR MANUFACTURE AND APPLICATIONS OF MAGNESIUM 67-12 M03-81961
CURRENT-POTENTIAL EFFECTS OF ADDITIVES IN MANGANESE ELECTROWINNING. PT. 2 67-12 M03-82585
METHOD OF REMOVING ORGANIC SUBSTANCES FROM NICKEL ELECTROLYTES 67-12 M03-83326
ELECTROLYZER FOR REMOVING TIN FROM TIN SCRAP OR FOR PRECIPITATING TIN FROM SOLUTIONS BY ELECTROLYSIS WITH NONCONSUMABLE ANODES 67-12 M03-83327
ELECTROWINNING OF COPPER POWDER FROM COPPER-MOLYBDENUM AMMONIA SOLUTIONS 67-12 M03-83404

ELECTROWINNING, IMPURITY EFFECTS
INFLUENCE OF TI IMPURITIES IN ROW MATERIAL ON CURRENT EFFICIENCY DURING ELECTROLYSIS OF MAGNESIUM 67-08 M03-76242
EFFECT OF SULFUR AND SELENIUM ON THE ELECTRODEPOSITION OF MANGANESE 67-11 M03-80433

ELECTROWINNING, REACTIONS /CHEMICAL/
THEORETICALLY PROBABLE REACTIONS AT THE ANODE OF THE ALUMINIUM ELECTROLYTIC CELL 67-02 M03-58873

ELEMENTARY PARTICLES
SEE ANTIPARTICLES
ELECTRONS
NEUTRONS
PHOTOELECTRONS
PROTONS

ELEVATED TEMPERATURE
SEE HIGH TEMPERATURE

ELLIPSOMETERS
SEE POLARIMETERS

ELONGATED STRUCTURE, HEATING EFFECTS
STUDY OF THE ISOTHERMAL SOFTENING PROCESSES OCCURRING IN UNDOPED TUNGSTEN WIRE --0.38 MM-- 67-05 M13-69860
TRANSMISSION ELECTRON MICROSCOPIC STUDIES OF UNDOPED TUNGSTEN WIRE --0.38 MM-- ANNEALED ISOTHERMALLY AT 1180 C 67-05 M13-69861

ELONGATION
SUPERPLASTICITY 67-01 M17-57592
MECHANICAL PROPERTIES OF VARIOUS HEAT TREATED STRUCTURES IN THE LOW-CARBON LOW-ALLOY STEEL 67-01 M17-58247
EXPERIMENTAL RESULTS ON ACCUMULATION DAMAGE IN REPEATED LOADING OF ALUMINIUM ALLOY BARS 67-02 M17-59709
STUDY OF AL-ZN SLIGHTLY WORK-HARDENED STRUCTURES AND THEIR EVOLUTION DURING THERMAL TREATMENTS 67-03 M14-65548
THE PRODUCTION OF CAST IRON WITH SPHERIOIDAL GRAPHITE HAVING HIGH ELONGATION VALUES IN THE AS-CAST CONDITION IN ACID COLD BLAST CUPOLAS WITH LOW-MN PIG IRON 67-04 M04-66638
SUPPLEMENTAL REPORT ON THE ELEVATED-TEMPERATURE PROPERTIES OF CHROMIUM-MOLYBDENUM STEELS 67-04 M17-66289
EFFECT OF THE ADDITION OF SMALL AMOUNTS OF TITANIUM ON THE PROPERTIES AND STRUCTURE OF LOW-CARBON AND LOW-ALLOYED STEELS 67-04 M17-67968

EXPANDABILITY TEST ON BERYLLIUM TUBE TO BE USED FOR FUEL CLADDING OF NUCLEAR POWER REACTORS 67-05 M17-69883
PREDICTION OF PHYSICAL PROPERTIES IN ARC WELDING 67-06 M17-71687
A MATHEMATICAL MODEL OF THE RELATIONSHIP OF THE RELATIVE ELONGATION TO THE STRUCTURAL CHARACTERISTICS OF AN ALLOY IN SOLID-LIQUID STATE 67-06 M17-72120
THE COMPACTION OF METAL POWDERS BY ROLLING 67-07 M09-73866
AN X-RAY STUDY ON DEFORMED STRUCTURE OF POLYCRYSTALLINE IRON 67-07 M17-72907
EFFECTS OF PIG IRON AND ALLOY ELEMENTS UPON THE AS-CAST MICROSTRUCTURE AND MECHANICAL PROPERTIES OF SPHEROIDAL GRAPHITE CAST IRON 67-08 M06-74621
TENSION TESTS OF REINFORCING STEELS AT GRADUAL TEMPERATURE 67-08 M17-74622
DETERMINING THE STRENGTH AND PLASTICITY OF NODULAR IRON IN CRANKSHAFT CASTINGS BY THEIR HARDNESS 67-08 M17-75199
INFLUENCE OF LITHIUM ON MECHANICAL PROPERTIES OF ARMCO IRON 67-09 M17-76427
THE MECHANICAL PROPERTIES OF CAST IRON WITH SPHEROIDAL GRAPHITE IN THICK-WALLED PARTS 67-09 M17-76520
COMPARATIVE DUCTILITY OF BRITTLE METALS BY A PRECISION ELONGATION TECHNIQUE 67-09 M17-76531
THE PROPERTIES AND STRUCTURE OF ALUMINUM-SILICON-ZINC ALLOYS 67-09 M17-76883
RESEARCH INTO THE ELONGATION OF COPPER AT HIGH TEMPERATURES IN AN ULTRASONIC FIELD 67-10 M17-78948
MECHANICAL PROPERTIES OF HIGHLY PURE FE ELECTROLYTICALLY CHARGED BY H2 67-10 M17-79871
A NEW FORMULA FOR THE EXTRAPOLATION OF CREEP TEST RESULTS--AN EXAMPLE OF ITS APPLICATION TO A CR-MO-V STEEL 67-11 M17-80253
STEELS FOR ADVANCED TECHNOLOGY 67-12 M01-82802
THE QUALITY ANALYSIS OF UNALLOYED WHITE IRON 67-12 M17-83483

ELONGATION, ALLOYING EFFECTS
MECHANICAL PROPERTIES OF NODULAR CUPOLA IRON 67-07 M17-74052

ELONGATION, HEATING EFFECTS
HIGH STRENGTH MAGNESIUM ALLOY 67-07 M10-74166
THE PROPERTIES OF STAINLESS STEEL 1H18N9T AFTER AGING IN THE POWER REACTOR TEMPERATURE RANGES. PT. 1. MECHANICAL PROPERTIES 67-07 M17-73884

ELONGATION, PRESSURE EFFECTS
EFFECT OF PRESSURE ON THE PROPERTIES OF CAST D16 ALUMINUM ALLOY 67-01 M17-58086

ELONGATION, STRESS EFFECTS
FUNDAMENTAL MATERIAL INVESTIGATIONS WITH RESPECT TO DEFORMATION AT INTERMEDIATE TEMPERATURES 67-04 M17-67409
OBSERVATIONS ON THE FORM OF THE LOAD-ELONGATION CURVE FOR LOW-CARBON STEEL IN THE REGION OF THE YIELD POINT 67-07 M17-72673

ELOXAL ANODIZING
SEE ANODIZING

EMALCO PROCESS
SEE ENAMELING

EMANATION
SEE EMISSION

EMBRITTLEMENT
SEE ALSO HYDROGEN EMBRITTLEMENT
ON THE EMBRITTLING PHENOMENON OF COPPER ALLOYS DURING ANNEALING. --REPORT 2--. FACTORS AFFECTING THE EMBRITTLEMENT OF ALPHA BRASS DURING ANNEALING 67-01 M17-57453
BEHAVIOR OF 9 PER CENT NICKEL STEEL IN REACTOR ENVIRONMENT 67-01 M17-58350
BRITTLE FRACTURES 67-01 M17-58352
STUDIES ON EMBRITTLEMENT OF STEELS BY MEANS OF HARDNESS MEASUREMENTS 67-02 M17-58936
MEASURING THE LOSS IN DUCTILITY CAUSED BY TENSOTHERMAL EMBRITTLEMENT 67-02 M17-59171
INFLUENCE OF SURFACE DEFECTS ON THE MECHANICAL PROPERTIES OF THIN-WALLED TUBING OF 304 STAINLESS STEEL 67-02 M17-61963
EMBRITTLEMENT OF WELDABLE HIGH-STRENGTH STRUCTURAL STEELS BY SULFIDE CORROSION. PT. 2 67-02 M18-60269
FAILURE ANALYSIS OF A GASEOUS HYDROGEN HEAT EXCHANGER-LIQUID METAL EMBRITTLEMENT 67-03 M17-65933
POSTIRRADIATION CREEP AND STRESS RUPTURE OF HASTELLOY N 67-04 M16-68120
INVESTIGATION OF THE EFFECT OF HIGH TEMPERATURES ON THE DUCTILE PROPERTIES OF KH25T STEEL 67-04 M17-66003
ASPECTS OF BRITTLENESS AT HIGH TEMPERATURES FOR FE-AL ALLOY WITH 40 AT. PER CENT ALUMINIUM 67-04 M17-66048
EFFECT OF COLD REDUCTION ON PRECIPITATION AND EMBRITTLEMENT OF A COBALT-BASE ALLOY --L-605-- 67-04 M17-66189
THE EFFECT OF GRAIN BOUNDARY PENETRATION ON THE DELAYED FAILURE OF CU-2 PER CENT BE 67-04 M17-66921
EMBRITTLEMENT OF NEUTRON-IRRADIATED 20CR-25NI-NB AUSTENITIC STEEL AT 650 C 67-04 M17-66991
THE PENETRATION OF BI INTO THE GRAIN BOUNDARIES OF CU 67-04 M17-67079
INFLUENCE OF A PHASE TRANSFORMATION ON THE APPEARANCE OF HIGH-TEMPERATURE EMBRITTLEMENT AFTER NEUTRON IRRADIATION 67-04 M17-67465
PROPERTIES OF CR-MN-NI STEELS CONTAINING NITROGEN AT LOW TEMPERATURES 67-04 M17-67975
EMBRITTLEMENT OF WELDED JOINTS IN AUSTENITIC STEEL 67-05 M17-68362
STUDY OF THE MECHANICAL PROPERTIES OF SILICON-CONTAINING FERRITE. THE INFLUENCE OF CARBON 67-05 M17-69112
METALLOGRAPHY OF THE 475 C. EMBRITTLEMENT IN AN IRON-30 PER CENT CHROMIUM ALLOY 67-06 M13-71080
RESULTS OF CREEP TESTS ON HIGH-TEMPERATURE AUSTENITIC STEELS 67-06 M17-70082
EMBRITTLEMENT OF CADMIUM BY INDIUM IN MERCURY AT ROOM TEMPERATURE 67-06 M17-71290
CHROMIUM AND CHROMIUM ALLOYS 67-06 M17-71405
GRAIN-SIZE DEPENDENCE OF FRACTURE IN COPPER-ALUMINIUM ALLOYS EMBRITTLED BY MERCURY 67-06 M17-71542
THE BEHAVIOR OF 9 PER CENT NICKEL STEEL IN A REACTOR ENVIRONMENT 67-06 M17-71682
THE DEEP NOTCH TEST AND BRITTLE FRACTURE INITIATION 67-06 M17-71688
CLADDING DEVELOPMENT FOR FAST BREEDER REACTORS 67-07 M12-73465
EMBRITTLEMENT OF STEEL. PT. 3 67-07 M17-72668
EFFECTS OF IRRADIATION IN IRON AND STEELS 67-07 M17-73378
THE VALUE OF THE AGING FACTORS OF IMPACT TEST--TEMPERATURE CURVES ON TEST WIDTHS OF LESS THAN 10 MM --0.4 IN.-- 67-08 M17-75945
INERTIA WELDING DISSIMILAR METALS 67-09 M11-77949
SIGMA AND 885 F. EMBRITTLEMENT OF CHROMIUM-NICKEL STAINLESS STEEL WELD METALS 67-09 M11-77950
REASONS FOR EMBRITTLEMENT IN THE HEAT AFFECTED ZONE OF WELDS IN AUSTENITIC STEAMPIPES 67-09 M17-76962
AGE EMBRITTLEMENT OF MULTIPASS WELDED SUPERALLOY JOINTS 67-09 M17-77953
FATIGUE LIMIT IN AIR AND UNDER CORROSION OF A MARTENSITIC STEEL CONTAINING 13 PER CENT CR AFTER DIFFERENT MECHANICAL AND HEAT TREATMENTS 67-09 M17-78039
NONDESTRUCTIVE TESTING METHODS FOR ASSESSING THE BEHAVIOR OF MATERIALS AT LONG TIME STRESS 67-10 M19-79481
BRAZING ALLOYS AND TECHNIQUES FOR TANTALUM HONEYCOMB STRUCTURES 67-11 M11-80412
BUILDING UP THE CONES OF BLAST FURNACE CHARGING EQUIPMENT 67-11 M11-80555
PROPERTIES OF TWO HIGHLY ALLOYED MARTENSITIC STAINLESS STEELS AND A PRECIPITATION-HARDENED AUSTENITIC STAINLESS STEEL IN THE TEMPERATURE RANGE 500 TO 700 C 67-11 M17-80275
METALLURGICAL ASPECTS OF FERRITIC BOLT STEELS 67-11 M17-80280
THE EMBRITTLING EFFECT OF SMALL ELASTIC STRESS WAVES ON CRACK TOUGHNESS OF A STRUCTURAL STEEL 67-12 M17-81853
THE THEORY OF NOTCH-BRITTLENESS IN STEELS OCCURRING DURING TIME-TO -RUPTURE TESTS 67-12 M17-83252

EMBRITTLEMENT, ALLOYING EFFECTS
RESIDUALS--MISCHIEVOUS MITES IN STAINLESS 67-03 M17-65490
DEVELOPMENT OF IMPROVED WROUGHT ALLOYS FOR REFORMER TUBES 67-06 M17-70535

EMBRITTLEMENT

MECHANICAL PROPERTIES OF HIGH-NITROGEN AUSTENITIC STAINLESS STEELS AND POSSIBLE APPLICATIONS 67-09 M17-76508

EMBRITTLEMENT, COMPOSITION EFFECTS
STRUCTURAL INVESTIGATIONS ON HIGH-NITROGEN CR-NI AUSTENITIC STAINLESS STEELS 67-09 M14-77826
THE EFFECT OF NITROGEN ON THE PROPERTIES OF AUSTENITIC STAINLESS STEELS 67-09 M17-77825

EMBRITTLEMENT, GRAIN SIZE
GRAIN SIZE DEPENDENCE OF EMBRITTLING PHENOMENON OF BRASS DURING ANNEALING 67-06 M17-70784

EMBRITTLEMENT, HEATING EFFECTS
ON THE EMBRITTLEMENT OF CHROMIUM COPPER DURING TEMPERING 67-06 M17-70783
EMBRITTLING PHENOMENON OF COPPER ALLOYS DURING ANNEALING. PT. 3. GRAIN SIZE DEPENDENCE OF EMBRITTLING PHENOMENON OF BRASS DURING ANNEALING 67-06 M17-71441
MECHANICAL PROPERTIES OF FE-CR ALLOYS EMBRITTLED AT 475 C 67-08 M17-74438
ON THE EMBRITTLING PHENOMENON OF COPPER ALLOYS DURING ANNEALING. PT. 4. EMBRITTLEMENT OF CHROMIUM COPPER DURING TEMPERING 67-12 M17-82133

EMBRITTLEMENT, IMPURITY EFFECTS
THE EFFECT OF INTERSTITIAL IMPURITIES ON RADIATION HARDENING AND EMBRITTLEMENT IN IRON 67-02 M17-58950

EMBRITTLEMENT, RADIATION EFFECTS
RADIATION DAMAGE IN INCOLOY-800 67-03 M17-65018
FEATURES AND RESULTS OF SEVERAL PROGRAMS OF RADIATION-DAMAGE SURVEILLANCE OF POWER REACTOR PRESSURE VESSELS 67-06 M17-71640
HIGH TEMPERATURE TENSILE PROPERTIES OF NEUTRON IRRADIATED 20 CR-35 NI AUSTENITIC STEEL 67-07 M13-73853
THE EMBRITTLEMENT OF OXIDE FILMS ON ZIRCONIUM BY NEUTRON IRRADIATION 67-07 M13-74234
IRRADIATION HARDENING AND EMBRITTLEMENT IN BODY-CENTERED CUBIC TRANSITION METALS 67-07 M17-73376
LOW-TEMPERATURE EMBRITTLEMENT OF IRON, IRON ALLOYS, AND STEELS BY NEUTRON IRRADIATIONS 67-07 M17-73379
NEW INFORMATION ON NEUTRON EMBRITTLEMENT AND EMBRITTLEMENT RELIEF OR REACTOR PRESSURE VESSEL STEELS 67-07 M17-73389
IN-DEPTH EMBRITTLEMENT OF A SIMULATED PRESSURE 67-07 M17-73390
RADIATION EFFECTS IN NONFUEL MATERIALS 67-11 M16-80472

EMBRITTLEMENT, SIZE EFFECTS
INFLUENCE OF SPECIMEN SIZE ON TENSILE CHARACTERISTICS AND ON TENDENCY TO BRITTLE FRACTURE OF STEEL 67-08 M17-75696

EMBRITTLEMENT, STRESS EFFECTS
HOW LOW CYCLE FATIGUE EMBRITTLES PRESSURE VESSEL STEELS 67-02 M17-60694
USE OF 35 NCD 16 STEEL IN AERONAUTICS 67-02 M17-61964

EMBRITTLEMENT, TEMPERATURE EFFECTS
ELECTRON MICROSCOPIC STUDY OF DEFORMATION BEHAVIOR OF IRON-CHROMIUM ALLOY AGED AT 470 C 67-01 M17-58744

EMBRITTLEMENT, WELDING EFFECTS
WELDING METALLURGY OF CAST AUSTENITIC MATERIALS 67-06 M11-70536

EMISSION
SEE ALSO ELECTRON EMISSION
FIELD EMISSION
ION EMISSION
SECONDARY EMISSION
THERMIONIC EMISSION
SCHOTTKY EMISSION AS A RATE-LIMITING FACTOR IN THERMAL OXIDATION OF METALS 67-03 M14-65025
CATHODOLUMINESCENCE OF P-TYPE GAAS 67-04 M16-66761
MILLIMETER WAVE RADIATION FROM INDIUM ANTIMONIDE 67-07 M16-73999
MICROWAVE EMISSION FROM N-TYPE INDIUM ANTIMONIDE AT 4.2 AND 77 K 67-09 M16-77010
EFFECT OF ELECTRON-HOLE SCATTERING RESONANCE ON X-RAY EMISSION SPECTRUM 67-09 M16-77157
EFFECT OF ALLOYING ON ALUMINUM K AND COPPER L X-RAY EMISSION SPECTRA IN THE ALUMINUM-COPPER SYSTEM 67-09 M16-77436
SECONDARY EMISSION STUDIES ON GE AND NA-COVERED GE 67-09 M16-77442
EXOELECTRON EMISSION DURING OXYGEN CHEMISORPTION AT CLEAN NICKEL SURFACES 67-09 M16-77462
STIMULATED EMISSION OF ELECTRON-BEAM-PUMPED ZINC TELLURIDE SINGLE CRYSTALS 67-10 M16-79462
MICROWAVE EMISSION FROM CDS 67-11 M15-80818
COMPARATIVE MEASUREMENTS OF URANIUM ATOM EMISSION FROM FISSIONING SURFACES 67-11 M16-80495
PHOTON EMISSION FROM AL FOILS BOMBARDED BY NONNORMALLY INCIDENT ELECTRONS 67-11 M16-80655
THERMOEMISSIVITY OF ALLOYS OF W-LA2O3 SYSTEM 67-12 M09-81992
X-RAY DIFFRACTION ANALYSIS OF METALLIC COPPER 67-12 M16-82326

EMISSION SPECTROSCOPY
SEE SPECTROSCOPY

EMISSIVITY
DETERMINING THE THERMAL CONDUCTIVITY COEFFICIENT AND RADIATION CAPACITY OF ALUMINUM OXIDE COVERINGS 67-04 M16-66873
THE PREDICTION OF THE TOTAL HEMISPHERICAL EMISSIVITIES OF POLISHED METALS FROM THEIR THERMAL CONDUCTIVITIES 67-06 M15-71048
EMISSIVITY OF MOLYBDENUM DISILICIDE COATINGS 67-06 M15-72039
THERMOPHYSICAL PROPERTIES OF HEAT-RESISTANT TUNGSTEN-RHENIUM ALLOY VR-27-VT 67-06 M15-72043
STUDY OF THE EMISSION PROPERTIES OF GERMANIUM ON VARIOUS FACES OF A TUNGSTEN SINGLE CRYSTAL 67-06 M16-70506
FUNDAMENTAL STUDY OF THE APPLICABILITY OF CARBIDES TO THE CONSTRUCTION OF HIGH-POWER TUBES 67-07 M20-73836
A NEW TYPE OF COMPOSITE ALL-METAL ELECTRON EMITTER FOR VALVES AND ELECTRON-OPTICAL DEVICES 67-08 M15-74394
THERMOPHYSICAL PROPERTIES OF TANTALUM AT TEMPERATURES ABOVE 1000 C 67-10 M15-79249
THERMAL CONDUCTIVITY AND EMISSIVITY OF ALUMINUM OXIDE COATINGS AT HIGH TEMPERATURES 67-11 M15-80493
INVESTIGATION OF THE EMISSIVITY OF SINTERED TUNGSTEN 67-12 M16-82216
THE RELATIONSHIP BETWEEN EMANATING POWDER AND SPECIFIC SURFACE OF FINELY DIVIDED SOLIDS AND ITS USE IN INVESTIGATING THE KINETICS OF SINTERING 67-12 M16-83196

EMISSIVITY, RADIATION EFFECTS
THRESHOLD ENERGY FOR ATOMIC DISPLACEMENT IN CADMIUM TELLURIDE 67-11 M16-80617

EMISSIVITY, TEMPERATURE EFFECTS
EMISSIVITY AND ELECTRICAL RESISTIVITY OF TANTALUM AT HIGH TEMPERATURES 67-05 M15-69847
THERMAL AND ELECTRICAL CONDUCTIVITIES AND SPECTRAL AND TOTAL EMISSIVITIES OF NICKEL AT HIGH TEMPERATURES 67-06 M15-70574

EMITTANCE
SEE SPECTRAL EMITTANCE

EMITTERS /ELECTRON/
THERMIONIC ELECTRON EMITTERS BASED ON THE ALLOYS OF RARE-EARTH METALS 67-09 M20-76663
DEVELOPMENT OF A TECHNIQUE OF PREPARATION OF LA, GD, AND Y HEXABORIDES USING ELECTRON-BEAM HEATING 67-12 M09-82781

EMITTERS /ELECTRON/, MATERIALS
PRODUCTION OF LANTHANUM, GADOLINIUM AND YTTRIUM HEXABORIDES USING ELECTRON BEAM HEATING 67-06 M09-71460

EMITTERS /ELECTRON/, NONDESTRUCTIVE TESTING
THE MAGNETOINDUCTIVE TESTING OF W AND MO WIRES AND RODS 67-07 M19-73195

EMITTERS /ELECTRON/, STRUCTURAL MATERIALS
SOME OF THE PHYSICAL PROPERTIES OF W-LAB6 ALLOYS 67-10 M15-78342

EMPENNAGES
SEE AIRFRAMES

EMULSIFICATION
SEPARATION OF EMULSIFIED SLAG FROM MOLTEN STEEL IN THE BASIC OXYGEN LD PROCESS. PT. 8. USE OF RADIOISOTOPES IN STEELMAKING 67-06 M04-72287
PRACTICAL ADVANTAGES OF COLD EMULSION CLEANING 67-06 M12-70607

EMULSIFYING AGENTS, LUBRICANTS
TESTING THE SUITABILITY OF BOUNDARY-ACTIVE LUBRICANTS FOR COLD WORKING 67-07 M07-72545

EMULSIONS
BENCH TESTING METALWORKING FLUIDS 67-12 M08-82913

EMULSOIDS
SEE EMULSIONS
ENAMELING
SEE ALSO VITREOUS ENAMELLING
THE ENAMELLING OF ALUMINUM 67-01 M12-58429
LONG ALUMINUM EXTRUSIONS COATED IN VERTICAL FINISHING SYSTEM AT ELECTRO FINISH PLANT 67-01 M12-58452
IMPROVING THE ENAMELABILITY OF STEELS BY DECARBURIZING ANNEALING 67-02 M12-60995
NOTES ON WET PROCESS CAST IRON ENAMELLING 67-03 M12-65930
NEW VANADIUM-CONTAINING OR COLUMBIUM-CONTAINING LOW-ALLOY STEELS FOR ENAMELLING 67-04 M12-66458
RECENT PROBLEMS EXPERIENCED ON SHEET IRON ENAMELS WITH SOME PRACTICAL SOLUTIONS 67-04 M12-66646
COATINGS AND FINISHES 67-04 M12-67538
ADVANTAGES OF NI COATINGS 67-05 M12-69191
PICKLING OF SHEETS FOR SUBSEQUENT LACQUERING, BASE ENAMELING AND DIRECT-WIRE ENAMELING 67-05 M12-69341
GROUND ENAMELS AND THEIR PROCESSING 67-06 M12-71743
INVESTIGATION OF ENAMELABILITY OF DECARBURIZED CAST IRON 67-07 M12-73200
WHITE ENAMELING OF SHEET STEEL 67-07 M12-73891
HYDROGEN DIFFUSION TESTING OF SHEET SUSCEPTIBLE TO FISH SCALE 67-09 M12-78053
INFLUENCE OF OXIDANTS ADDED TO THE PICKLING SOLUTION ON ADHESION OF ENAMEL COATINGS TO THE STEEL 67-10, M12-78534
INFLUENCE OF OXIDANTS ON DISSOLUTION OF LOW-CARBON STEELS IN SULFURIC ACID AND ON QUALITY OF ENAMELED COATINGS 67-10 M12-78535
ONE-COAT ENAMELLING STEEL 67-10 M12-79497
THE BUBBLE STRUCTURE OF GROUND COAT ENAMELLED SHEET STEELS 67-10 M12-79584
ON THE PROGRESS OF ENAMELING OF CONSTRUCTION AL 67-10 M12-79694
COATED SHEET STEEL FOR DIRECT-ON ENAMELING 67-11 M12-80349
NEW LOW-ALLOY ENAMELING STEELS WITH VANADIUM OR NIOBIUM 67-11 M12-80999
THE FORMATION OF FE-NI AND FE-NI-CO SOLID SOLUTIONS AT THE STEEL-ENAMEL INTERFACE 67-11 M13-81379
INVESTIGATIONS OF THE ENAMEL ADHESION TO STEEL SHEET 67-12 M12-83400
ENAMELS
INFLUENCE OF THE PICKLING ADDITIONS ON FISH SCALE DEFECTS OF ENAMEL COATINGS 67-05 M12-69835
GROUND ENAMELS AND THEIR PROCESSING 67-06 M12-71743
INFLUENCE OF ETCHING ADDITIVES ON FISH SCALE FLAWS IN ENAMEL COATING 67-12 M12-82268
ENAMELS, COATINGS
WEAR MEASUREMENTS ON COATINGS OF METALLIC SURFACES 67-02 M17-60511
ENAMELS, CORROSION
ENAMELLED STEELS--THEIR PROPERTIES AND APPLICATION 67-07 M12-74018
ENAMELS, REACTIONS /CHEMICAL/
INTERFACIAL REACTIONS IN LEAD OXIDE-BEARING ENAMEL-METAL SYSTEMS 67-06 M14-71163
ENCAPSULATION
AN ANALYSIS OF THE COATED DIAMOND/BOND SYSTEM 67-03 M08-65171
ENCAPSULATION OF SAMPLES FOR HIGH TEMPERATURE POWDER X-RAY DIFFRACTOMETRY 67-07 M13-73139
PROPERTIES OF GALLIUM ARSENIDE CRYSTALS PRODUCED BY LIQUID ENCAPSULATION PULLING 67-07 M16-72920
END QUENCHING
SEE JOMINY TEST
ENDOTHERMIC REACTIONS
EFFECT OF HEATING RATES AND TOTAL DEVELOPED HEAT ON THE REDUCTION PROCESS IN MIXTURES OF ORE AND CARBON 67-11 M04-80337
ENDURANCE
SEE DURABILITY
ENDURANCE /TESTING/
SEE FATIGUE /MATERIALS/
ENDURANCE LIMIT
SEE FATIGUE LIMIT
ENERGIZING
SEE ACTIVATION
ENERGY
SEE ALSO BINDING ENERGY /NUCLEAR/
FREE ENERGY
FREE ENERGY OF ACTIVATION
FREE ENERGY OF FORMATION
FREE ENERGY OF REACTION
FREE ENERGY OF TRANSFORMATION
HEAT OF ADSORPTION
HEAT OF FORMATION
HEAT OF FUSION
HEAT OF MIXING
HEAT OF REACTION
HEAT OF SOLUTION
HEAT OF SUBLIMATION
HEAT OF TRANSFORMATION
HEAT OF VAPORIZATION
SPECIFIC HEAT
SURFACE ENERGY
ENERGY, STRESS EFFECTS
LOW TEMPERATURE LIQUID-VAPOR DEFORMATION CALORIMETER 67-08 M15-76155
ENERGY CONVERSION
SEE DIRECT POWER GENERATION
ENERGY GAP
BURSTEIN SHIFT OF THE FUNDAMENTAL ABSORPTION EDGE OF TIN TELLURIDE 67-01 M16-57443
THERMAL AND OPTICAL ENERGY GAPS IN PBTE 67-03 M16-65884
TUNNELING INVESTIGATION OF ENERGY-GAP ANISOTROPY IN SUPERCONDUCTORS 67-04 M16-66511
ENERGY-GAP MEASUREMENTS IN TYPE-2 SUPERCONDUCTORS BY A NEW METHOD 67-04 M16-67180
INCREASE OF THE ANISOTROPY OF THE ENERGY GAP IN SUPERCONDUCTING THALLIUM UNDER PRESSURE 67-04 M16-68137
BAND STRUCTURE OF A CUPROUS OXIDE CRYSTAL 67-05 M16-68579
ENERGY GAP AND THERMAL CONDUCTIVITY OF PURE AND IMPURE SUPERCONDUCTING TIN 67-05 M16-69515
NMR STUDY OF TWO ENERGY GAPS IN SUPERCONDUCTING COMPOUNDS 67-05 M16-69767
COMBINED INTERPOLATION SCHEME FOR TRANSITION AND NOBLE METALS 67-05 M16-69802
THE ANISOTROPY OF THE ELECTRONIC PROPERTIES OF INTRINSIC CDSE 67-06 M16-70465
STRONG-COUPLING SUPERCONDUCTIVITY IN GALLIUM 67-06 M16-70636
MICROWAVE INVESTIGATION OF THE SMALL GAP ANOMALY IN LANTHANUM 67-06 M16-71992
SUPERCONDUCTING ENERGY GAP OF BULK LANTHANUM BY POINT CONTACT TUNNELING 67-06 M16-71995
SEMICONDUCTOR-TO METAL TRANSITIONS IN TRANSITION-METAL COMPOUNDS 67-07 M16-73947
ENERGY BAND STRUCTURES OF MIXED CRYSTALS OF 111-V 67-07 M16-74205
ELECTRONIC PROCESS IN GAMMA IRON TELLURIDE 67-08 M15-75919
ON AN EXCITON STRUCTURE IN THE REFLECTION SPECTRUM OF TRIGONAL SELENIUM SINGLE CRYSTALS 67-08 M16-75250
INVERSION OF CONDUCTION AND VALENCE BANDS IN PB1-XSNXSE ALLOYS 67-09 M16-77170
FAR-INFRARED ABSORPTION IN SUPERCONDUCTING NIOBIUM ALLOYS 67-09 M16-77685
LAW OF CORRESPONDING STATES FOR FCC AND D-HCP LA 67-09 M16-77686
ENERGY BANDS IN FERROMAGNETIC NICKEL 67-10 M16-78737
OPTICAL ENERGY GAPS OF PBSE-SNTE, PBSE-SNSE, PBTE-SNTE AND PBTE-SNSE 67-10 M16-79335
OPTICAL PROPERTIES OF THE MIXED AMORPHOUS SYSTEM, AS2SXSE3-X 67-10 M16-79369
ENERGY GAP IN BETA AG2SE 67-10 M16-79420
THE ROLE OF ACCEPTORS IN THE LUMINESCENCE OF N-TYPE GAAS 67-11 M15-81677
ELECTRONIC SPECTRUM OF CRYSTALLINE LITHIUM FLUORIDE 67-11 M15-81680
SOME CHARACTERISTICS OF THE CHEMICAL BOND IN MULTICOMPONENT SEMICONDUCTING COMPOUNDS 67-11 M16-80174
X-RAY SPECTRAL ANALYSIS OF SEMICONDUCTING COMPOUNDS OF CADMIUM WITH ANTIMONY, OXYGEN, AND SULFUR 67-11 M16-80179
ENERGY GAP OF SUPERCONDUCTING NB3SN 67-11 M16-80656
ENERGY GAP, ALLOYING EFFECTS
ELECTRONIC STRUCTURE OF ALPHA BRASS 67-05 M16-69801
ENERGY GAP, ANISOTROPY
ANISOTROPIC ENERGY GAP IN SUPERCONDUCTING WHITE TIN.. SEMIEMPIRICAL APPROACH 67-04 M16-68139

ENERGY GAP
DETERMINATION OF THE ANISOTROPY OF THE ENERGY GAP IN SUPERCONDUCTING PB BY SUPERCONDUCTIVE TUNNELING 67-04 M16-68141
ENERGY GAP, PRESSURE EFFECTS
PRESSURE EFFECTS ON THE ELECTRICAL PROPERTIES OF POLYCRYSTALLINE BORON 67-10 M15-79965
ENERGY GAP, TEMPERATURE EFFECTS
TEMPERATURE DEPENDENCE OF THE ENERGY GAP IN SEMICONDUCTORS 67-07 M16-74015
ENERGY OF ACTIVATION
SEE FREE ENERGY OF ACTIVATION
ENERGY OF DISSOCIATION
SEE FREE ENERGY OF FORMATION
ENERGY OF FORMATION
SEE FREE ENERGY OF FORMATION
ENGINE BLOCKS
OPERATING EXPERIENCE IN THE CASTING OF COMPLEX V ENGINES 67-07 M06-72489
ENGINE BLOCKS, CASTING
RELATIONSHIPS BETWEEN DIE DESIGN AND CASTINGS QUALITY 67-10 M06-79679
CAST AND WELDED STEEL STRUCTURES 67-11 M20-81130
LOW PRESSURE FOR QUALITY DIE CASTINGS 67-12 M06-81925
ENGINE BLOCKS, CASTINGS
INFLUENCE OF SUPERHEATING THE MOLTEN IRON ON THE WEAR RESISTANCE OF CASTINGS 67-04 M17-68097
ENGINE BLOCKS, MACHINING
BORING WITH CERAMIC TOOLS IN COMPENSATING SPINDLES 67-10 M08-78452
ENGINE BLOCKS, STRUCTURAL MATERIALS
CAST IRONS WITH LAMINATED AND GLOBULAR GRAPHITE AS CONSTRUCTION MATERIALS IN MACHINE DESIGN 67-10 M17-79699
ENGINE VALVES
HIGH-SPEED GRINDING HALVES MACHINING TIME 67-02 M08-61857
VALVES AND THEIR MANUFACTURE 67-05 M20-68912
A NEW HEAT-RESISTANT STEEL FOR INTERNAL COMBUSTION ENGINE EXHAUST VALVES 67-08 M20-75020
ENGINE VALVES, CASTING
WEAR RESISTANCE OF ENGINE VALVE SEATS 67-04 M06-66425
ENGINE VALVES, POWDER METALLURGY
INVESTIGATION OF HEAT CONDUCTIVITY, ELECTRICAL CONDUCTIVITY AND MECHANICAL PROPERTIES OF IRON-BASE SULFIDIZED SINTERED MATERIALS 67-06 M09-72328
ENGINE VALVES, WEAR
INVESTIGATION OF ENGINE EXHAUST VALVE WEAR 67-08 M17-75545
ENGINE VALVES, WELDING
BUILDUP WITH A MELTED FILLER METAL 67-04 M12-66572
FRICTION WELDING OF MOTOR DISTRIBUTOR CAMS 67-05 M11-69413
BUILDING UP BY POURING MOLTEN FILLER METAL ONTO THE WORK 67-07 M12-73429
THE FRICTION WELDING OF PUSH RODS FOR SMD ENGINES 67-10 M11-78517
ENGINEERING
SEE AUTOMOTIVE ENGINEERING
CHEMICAL ENGINEERING
NUCLEAR ENGINEERING
ENGINES /APPLICATIONS/
SEE AEROSPACE ENGINES
AUTOMOTIVE ENGINES
BOOSTER ROCKETS
MARINE ENGINES
PASSENGER CAR ENGINES
ROCKET ENGINES
TESTING MACHINES
ENGINES /TYPES/
SEE BOOSTER ROCKETS
COMBUSTION CHAMBERS
DIESEL ENGINES
INTERNAL COMBUSTION ENGINES
JET ENGINES
ROCKET ENGINES
TURBOJET ENGINES
ENGRAVING
SEE PHOTOENGRAVING
ENLARGING
SEE EXPANSION
ENRICHMENT
ENRICHMENT AND SPECTROPHOTOMETRIC DETERMINATION OF SMALL AMOUNTS OF CHROMIUM AND THE APPLICATION OF THE METHOD IN THE ALUMINIUM INDUSTRY 67-01 M03-57209
ENRICHMENT /OXYGEN/
SEE OXYGEN ENRICHMENT
ENTHALPY
CALORIMETRIC DETERMINATION OF SOLUTE-SOLUTE INTERACTIONS IN SOME DILUTE TIN-RICH LIQUID ALLOYS 67-02 M15-59428
THE THERMOCHEMISTRY OF MN3SI 67-02 M15-59892
A CALORIMETRIC INVESTIGATION OF LIQUID GOLD-TIN ALLOYS 67-02 M15-60647
ENTHALPY OF BETA AND DELTA PHASES IN THE FE-GE SYSTEM AT HIGH TEMPERATURES 67-02 M15-61554
THERMODYNAMICS OF ELECTRONIC STRUCTURE OF NI IN LIQUID FE SOLUTION 67-04 M15-66353
THERMODYNAMIC INVESTIGATIONS ON LIQUID AND SOLID MERCURY-INDIUM ALLOYS 67-04 M15-66542
EXTENSION TO THE TERNARY ALLOY AU0.050-CU0.45-NI0.05 OF THE AU-CU TYPE. RELATIONS BETWEEN THERMODYNAMIC FUNCTIONS AND DEGREE OF ORDER ALREADY ESTABLISHED BY AUCU3 67-05 M15-68909
MEASURE OF THE THERMAL CAPACITY OF THE FESI ALLOY BETWEEN 850 AND 1580 C 67-05 M15-68917
ENTHALPY, HEAT CAPACITY, AND HEAT OF FUSION OF ALUMINUM FROM 366 TO 1647 K 67-06 M15-70701
ENTHALPY, HEAT CAPACITY, AND HEAT OF FUSION OF MAGNESIUM FROM 404 TO 1300 K 67-06 M15-70703
THERMODYNAMIC PROPERTIES OF URANIUM CARBIDES 67-06 M15-70888
THE MIXING BEHAVIOR OF PD ALLOYS OF THE INTERSTITIAL AND THE SUBSTITUTIONAL TYPE 67-07 M15-72751
DEPARTURES FROM LINEARITY IN ARRHENIUS PLOTS OF VACANCY CONCENTRATION 67-07 M15-73912
MEASURED RELATIVE ENTHALPY OF ANHYDROUS CRYSTALLINE ALUMINUM TRIFLUORIDE, ALF3, FROM 273 11735. AND DERIVED THERMODYNAMIC PROPERTIES FROM 273 TO 1633K 67-09 M15-76415
ENTHALPY AND THERMAL CAPACITY OF NIOBIUM AND ZIRCONIUM CARBIDES AT 500 TO 2400 K 67-09 M15-76765
ENTHALPY AND HEAT CAPACITY OF ZIRCONIUM DIOXIDE IN THE TEMPERATURE INTERVAL 1100-2500 K 67-09 M15-76773
ENTHALPY OF SOLID AND LIQUID FE4GE3 AND FEGE COMPOUNDS 67-09 M15-77123
DETERMINATION OF THE ACTIVITY COEFFICIENT AT 1600 C. OF URANIUM IN AN INFINITELY DILUTE SOLUTION IN LIQUID IRON BY STUDYING A HETEROGENEOUS EQUILIBRIUM 67-09 M15-77680
PLASTIC DEFORMATION OF HEXAGONAL COBALT SINGLE CRYSTALS 67-10 M17-78694
SELF-DIFFUSION OF NI IN NI-FE ALLOYS 67-11 M14-81259
THERMODYNAMIC CHARACTERISTICS OF MANGANESE SILICIDES 67-11 M15-80447
ENTHALPY, COMPOSITION EFFECTS
THERMODYNAMIC PROPERTIES AND NONSTOICHIOMETRY OF OF THORIUM DICARBIDE 67-07 M15-74227
ENTHALPY, TEMPERATURE EFFECTS
SPECIFIC HEAT OF IRON-VANADIUM ALLOYS BETWEEN 125 AND 625 K 67-05 M15-68284
THERMODYNAMIC PROPERTIES OF ZIRCONIUM AND HAFNIUM CARBIDES OVER THE RANGE 298 TO 2500 K 67-05 M15-68706
RELATIVE ENTHALPY OF BERYLLIUM 1..1-ALUMINATE, BEO . AL2O3, FROM 273 TO 1173 K. THERMODYNAMIC PROPERTIES FROM 273 TO 2150 K 67-08 M15-75666
RELATIVE ENTHALPY OF BERYLLIUM 1..3-ALUMINATE, BEO . 3AL2O3, FROM 273 TO 1173 K. THERMODYNAMIC PROPERTIES FROM 273 TO 2150 K 67-08 M15-75667
THERMODYNAMIC PROPERTIES OF ZIRCONIUM AND HAFNIUM CARBIDES IN THE RANGE 298-2500 K 67-12 M15-82682
ENTROPY
SEE ALSO ENTROPY OF ACTIVATION
ENTROPY OF FORMATION
ENTROPY OF REACTION
ENTROPY OF SOLUTION
THE THERMOCHEMISTRY OF MN3SI 67-02 M15-59892
THE FREE ENERGY OF FORMATION OF PALLADIUM OXIDE 67-03 M14-65426
ANISOTROPY OF DIFFUSION OF COPPER-64 IN BERYLLIUM 67-03 M15-65257
PROPERTIES OF THE FREE ENERGY ASSOCIATED WITH THE INTERDIFFUSION OF TWO SOLIDS 67-04 M15-66064
THERMODYNAMIC INVESTIGATIONS ON LIQUID AND SOLID

MERCURY-INDIUM ALLOYS 67-04 M15-66542
ENTROPY, LATTICE PARAMETERS AND HIGH-TEMPERATURE PHENOMENA OF METALS 67-06 M13-71074
THERMODYNAMIC PROPERTIES OF URANIUM CARBIDES 67-06 M15-70888
ON THE ENTROPY OF HYSTERETIC SUPERCONDUCTING STATES 67-06 M16-70466
THE THERMODYNAMIC AND PHYSICAL PROPERTIES OF BERYLLIUM COMPOUNDS. PT. 11. THE HEAT OF FORMATION AND ENTROPY OF BERYLLIUM --I-- HYDROXIDE --G-- 67-08 M15-75382
THERMODYNAMIC CHARACTERISTICS OF MANGANESE SILICIDES 67-11 M15-80447
KNUDSEN CELL STUDIES OF THE VAPORIZATION OF GADOLINIUM AND GADOLINIUM DICARBIDE 67-11 M15-81555
DETERMINATION OF THE THERMODYNAMIC ACTIVITY OF ALUMINIUM IN NI-AL-CR ALLOYS BY THE E. M. F. METHOD 67-12 M15-82168

ENTROPY, COMPOSITION EFFECTS
THERMODYNAMIC PROPERTIES AND NONSTOICHIOMETRY OF OF THORIUM DICARBIDE 67-07 M15-74227

ENTROPY, TEMPERATURE EFFECTS
THERMODYNAMIC PROPERTIES OF ZIRCONIUM AND HAFNIUM CARBIDES OVER THE RANGE 298 TO 2500 K 67-05 M15-68706
THERMODYNAMIC PROPERTIES OF ZIRCONIUM AND HAFNIUM CARBIDES IN THE RANGE 298-2500 K 67-12 M15-82682

ENTROPY OF ACTIVATION
DIFFUSION COEFFICIENT OF NITROGEN IN CHROMIUM 67-05 M14-69213

ENTROPY OF FORMATION
EXTENSION TO THE TERNARY ALLOY AU0.050-CU0.45-NI0.05 OF THE AU-CU TYPE. RELATIONS BETWEEN THERMODYNAMIC FUNCTIONS AND DEGREE OF ORDER ALREADY ESTABLISHED BY AUCU3 67-05 M15-68909
THE DOUBLE-KINK MODEL FOR LOW-TEMPERATURE DEFORMATION OF BCC METALS AND SOLID SOLUTIONS 67-06 M13-71962
DEPARTURES FROM LINEARITY IN ARRHENIUS PLOTS OF VACANCY CONCENTRATION 67-07 M15-73912
THERMODYNAMIC PROPERTIES OF INDIUM AND GALLIUM ANTIMONIDES AND GALLIUM ARSENIDE 67-11 M15-80160

ENTROPY OF REACTION
POTENTIAL-PH-DIAGRAMS FOR AG, NI AND CO AT 100 C. WITH CONSIDERATION OF THE AMMINE COMPLEXES 67-02 M14-62248

ENTROPY OF SOLUTION
THERMODYNAMIC PROPERTIES AND EQUILIBRIUM PHASE DIAGRAMS IN THE AL-PB AND AL-CD SYSTEMS 67-12 M15-82595

ENVIRONMENTAL TESTING
THE CORROSION PERFORMANCE OF VARIOUS METALS IN CONCRETE 67-03 M18-65729

EPITAXIAL GROWTH
IMPURITY DISTRIBUTION IN EPITAXIAL FILMS AFTER OXIDATION 67-03 M14-65771
EPITAXIAL DEPOSITS OF GERMANIUM GROWN FROM SOLUTIONS OF TIN AND LEAD-TIN MIXTURES 67-03 M14-65772
ORIENTED GROWTH OF SEMICONDUCTORS. PT. 3. GROWTH OF GALLIUM ARSENIDE ON GERMANIUM 67-03 M14-65873
DEFECT FORMATION IN EPITAXIAL FILMS ON NATIVE AND FOREIGN SUBSTRATES 67-04 M13-67741
FORMATION TEMPERATURES FOR EVAPORATED EPITAXIAL GERMANIUM FILMS 67-04 M14-66393
GROWTH TEXTURES IN BERYLLIUM CONDENSATES 67-04 M14-66499
EPITAXIAL GROWTH OF UO2 ON GRAPHITE 67-04 M14-67461
SUPERCONDUCTING CRITICAL FIELDS OF NIOBIUM THIN FILMS 67-04 M16-67552
METALLURGY IN THE SEMICONDUCTOR INDUSTRY 67-04 M16-68044
FORMATION TEMPERATURES FOR EVAPORATED EPITAXIAL GERMANIUM FILMS 67-05 M14-68590
EFFECTS OF DOPING ON THE GROWTH RATE AND MORPHOLOGY OF EPITAXIAL GALLIUM ARSENIDE 67-05 M14-68591
GROWTH OF THIN GOLD FILMS ON ROCKSALT FROM 80 K. TO 475 K 67-05 M14-69214
PREPARATION OF CDS AND CD --S, SE-- EVAPORATED LAYERS AND THEIR PHOTOELECTRIC PROPERTIES 67-05 M15-69881
USE OF THE METHOD OF SHORT-RANGE TRANSPORT FOR THE PREPARATION OF EPITAXIAL LAYERS OF SEMICONDUCTOR MATERIALS 67-06 M14-70216
EPITAXIAL GROWTH OF SILVER AND NICKEL FILMS BY CATHODE SPUTTERING ON NACL CRYSTALS CLEAVED IN VACUUM 67-06 M14-70524
REFLECTION X-RAY TOPOGRAPHY OF GAAS DEPOSITED ON GE 67-06 M14-70667
PREFERRED ORIENTATION AND DOMAIN STRUCTURE OF IRON FILMS DEPOSITED ON --100-- COPPER SUBSTRATES 67-06 M14-70992
VAPOR PHASE GROWTH AND PROPERTIES OF GAAS GUNN DEVICES 67-06 M14-71149
RAPID VAPOR PHASE GROWTH OF HIGH-RESISTIVITY GAP FOR ELECTRO-OPTIC MODULATORS 67-06 M14-71150
THE CRYSTALLINE PERFECTION OF MELT-GROWN GAAS SUBSTRATES AND GA --AS, P-- EPITAXIAL DEPOSITS 67-06 M14-71422
ELECTRON MICROSCOPIC OBSERVATION OF OXIDES FORMED ON THIN FILM OF COPPER AT ELEVATED TEMPERATURE 67-06 M14-71544
THE OXIDE-METAL INTERFACE OF ELECTROPOLISHED ALUMINUM 67-07 M12-72645
GALLIUM ARSENIDE EPITAXIAL TECHNOLOGY 67-07 M14-72915
LARGE AREA SILICON JUNCTIONS BY EPITAXIAL GROWTH TECHNIQUE 67-07 M14-73461
CHEMICAL VAPOR GROWTH OF SINGLE-CRYSTAL MAGNETIC OXIDE FILMS 67-07 M14-73523
EPITAXIAL GROWTH OF VO2 SINGLE CRYSTALS AND THEIR ANISOTROPIC PROPERTIES IN ELECTRICAL RESISTIVITIES 67-07 M14-73996
STRUCTURAL AND CHEMICAL ALTERATIONS OF DELTA FE203 AND THEIR EFFECT ON MAGNETIC PROPERTIES 67-07 M15-72824
PREPARATION AND CHARACTERISTICS OF GALLIUM ARSENIDE 67-07 M16-72916
EPITAXIAL GROWTH OF FACE CENTERED CUBIC METALS ON ALKALIHALIDE CRYSTALS CLEAVED IN VACUUM 67-08 M14-74413
A NEW TECHNIQUE FOR PRODUCING EPITAXIAL SILICON LAYERS USING ULTRATHIN ALLOY ZONES INTERNATIONAL VACUUM CONGRESS, V 2, PT 2, 1967, PERGAMON PRESS, 44-01 21ST STREET, LONG ISLAND CITY, NEW YORK 11101. P 295-299 67-08 M14-75155
EPITAXIAL GROWTH OF SI ON SI IN ULTRAHIGH VACUUM 67-08 M14-75157
THE STRUCTURE AND ORIENTATION OF CRYSTALS IN DEPOSITS OF METALS ON MICA 67-08 M14-75368
POLYMORPHISM IN SOME IV-VI COMPOUNDS INDUCED BY HIGH PRESSURE AND THIN-FILM EPITAXIAL GROWTH 67-08 M14-75552
ORIENTED NUCLEATION IN THE FORMATION OF ANNEALING TEXTURES IN IRON 67-08 M14-75582
STRUCTURAL AND MAGNETIC PROPERTIES OF EPITAXIAL FILMS OF IRON 67-08 M15-75243
APPLICATION OF X-RAY METHODS TO THE STUDY OF THE REAL STRUCTURE OF MONOCRYSTALLINE EPITAXIAL LAYERS 67-08 M16-75239
MECHANISMS OF THE FORMATION OF EPITAXIAL STRUCTURES IN COPPER CONDENSATES 67-09 M13-77778
CRYSTALLOGRAPHIC AND MAGNETIC PROPERTIES OF THIN FILMS OF IRON EPITAXIALLY GROWN ON FCC SUBSTRATES 67-09 M14-76592
CERTAIN PROBLEMS IN GROWING EPITAXIAL FILMS OF GERMANIUM BY THE IODIDE SANDWICH METHOD 67-09 M14-76767
CONCERNING THE GROWTH OF EPITAXIAL GERMANIUM FILMS BY THE SANDWICH METHOD 67-09 M14-76768
ETCHING OF GERMANIUM WITH IODIDE VAPOR IN AN ELECTRIC FIELD 67-09 M14-76769
INVESTIGATION OF THE PROCESS OF GROWING EPITAXIAL GAAS FILMS BY USING THE OPEN IODIDE METHOD 67-09 M14-76851
EFFECT OF DISLOCATION DENSITY ON THE EPITAXIAL GROWTH OF SILVER 67-09 M14-77457
A STUDY OF NUCLEATION IN CHEMICALLY GROWN EPITAXIAL SILICON FILMS USING MOLECULAR BEAM TECHNIQUES. PT. 3. NUCLEATION RATE MEASUREMENTS AND THE EFFECT OF OXYGEN ON INITIAL GROWTH BEHAVIOR 67-09 M14-77521
EPITAXIAL GROWTH OF GERMANIUM ON SINGLE CRYSTAL SPINEL 67-09 M14-77898
PREPARATION AND PROPERTIES OF EPITAXIAL INAS 67-09 M16-78061
DISLOCATION FREE EPITAXIAL GAAS 67-10 M14-78443
EVIDENCE FOR THE PROPAGATION OF CRYSTAL DEFECTS FROM THE SUBSTRATE INTO AN EPITAXIAL

EPITAXIAL GROWTH

OVERGROWTH 67-10 M14-78752
EPITAXIAL GROWTH OF GOLD AND SILVER ON MAGNESIUM OXIDE CLEAVED IN ULTRAHIGH VACUUM 67-10 M14-79405
EPITAXIAL GROWTH OF IRON ON TUNGSTEN FIELD EMISSION POINTS 67-10 M14-79573
EPITAXIAL FILMS OF PBTE, PBSE AND PBS GROWN ON MICA SUBSTRATES 67-10 M15-79337
OXIDE DEPOSITION IN SILICON EPITAXIAL SYSTEMS 67-11 M14-80832
PREPARATION OF OHMIC CONTACTS FOR N-TYPE GAAS 67-11 M14-80834
CERTAIN PROBLEMS IN THE PRODUCTION AND INVESTIGATION OF EPITAXIAL GERMANIUM LAYERS 67-11 M14-81640
SINGLE-CRYSTAL SELENIUM FILMS 67-12 M12-82217
A NEW MECHANISM FOR STACKING FAULT GENERATION IN EPITAXIAL GROWTH OF SILICON IN ULTRAHIGH VACUUM 67-12 M12-82219
STUDY OF THE STRUCTURE OF METAL SURFACES BY LOW-ENERGY ELECTRON DIFFRACTION 67-12 M13-82352
SURFACE STRUCTURE OF CLEAN AU --100-- AND AG --100-- SURFACES 67-12 M13-82523
FACE-CENTERED CUBIC MODIFICATION IN SPUTTERED FILMS OF TANTALUM, MOLYBDENUM, TUNGSTEN, RHENIUM, HAFNIUM AND ZIRCONIUM 67-12 M13-82543
EPITAXIAL GROWTH OF VACUUM-EVAPORATED CO ON NACL. PT. 1. CONDITIONS LEADING TO EPITAXY 67-12 M14-82007
EPITAXIAL GROWTH OF VACUUM-EVAPORATED CO ON NACL. PT. 2. ANALYSIS OF DIFFRACTION PATTERNS 67-12 M14-82008
EPITAXIAL GROWTH OF GOLD ON CADMIUM IODIDE 67-12 M14-82009
LIQUID AND SOLID CESIUM ON A RHENIUM SUBSTRATE 67-12 M14-82376
EPITAXIAL GROWTH OF ZNTE ON ZNSE BY VAPOR TRANSPORT 67-12 M14-82675
HETEROGENEOUS NUCLEATION OF BI AND AG ON AMORPHOUS SUBSTRATES --IN SITU ELECTRON MICROSCOPY STUDIES-- 67-12 M14-83261
ELECTRICAL PROPERTIES OF SEMICONDUCTOR SURFACES 67-12 M15-83227
EVIDENCE FOR THE PROPAGATION OF CRYSTAL DEFECTS FROM THE SUBSTRATE INTO AN EPITAXIAL OVERGROWTH 67-12 M17-83121

EPITAXIAL GROWTH, RADIATION EFFECTS
LOW-ENERGY ELECTRON DIFFRACTION STUDIES OF EPITAXIAL GROWTH OF SILVER AND GOLD IN ULTRA-HIGH VACUUM 67-05 M14-69426

EPITAXY
ELECTRON DIFFRACTION STUDIES OF THE EPITAXY OF CU SINGLE CRYSTALS. PT. 1. EPITAXY OF EVAPORATED CU FILMS ON CU CRYSTALS 67-01 M13-57108
ELECTRON DIFFRACTION STUDIES OF THE EPITAXY OF CU SINGLE CRYSTALS. PT. 2. EARLY STAGES OF EPITAXY AND INTERFACIAL DISLOCATION NETWORKS 67-01 M13-57109
EPITAXIAL DEPOSITION OF GERMANIUM BY BOTH SPUTTERING AND EVAPORATION 67-01 M14-57106
EPITAXIAL GROWTH OF BULK-QUALITY GALLIUM ARSENIDE ON GALLIUM ARSENIDE AND GERMANIUM SUBSTRATES 67-01 M14-57126
GROWTH PYRAMIDS IN EPITAXIAL GAAS 67-01 M14-57448
INTERRUPTED VAPOUR DEPOSITION OF EPITAXIAL GOLD FILMS GROWN INSIDE AN ELECTRON MICROSCOPE 67-01 M14-57565
EPITAXY OF BODY-CENTERED CUBIC METALS EVAPORATED ONTO CLEAVAGE FACES OF ROCKSALT 67-02 M13-60522
EPITAXIAL FILMS OF ZNTE ON IONIC SUBSTRATES 67-02 M14-59013
ON THE EPITAXIAL PRECIPITATION OF ZINC SULFIDE AND LEAD SULFIDE ON ZINC SULFIDE BY A CHEMICAL TRANSPORT REACTION AND BY SUBLIMATION 67-02 M14-60114
NUCLEATION OF EPITAXIAL SIC ON SI SURFACES 67-02 M14-61081
THE GROWING OF SINGLE-CRYSTAL LAYERS OF IRON, NICKEL, COBALT AND THEIR ALLOYS 67-02 M14-61513
EPITAXIAL GROWTH OF GERMANIUM ON GERMANIUM SUBSTRATES CLEANED AND HEATED BY ELECTRON BOMBARDMENT 67-02 M14-61525
PREPARATION OF HEXAGONAL CADMIUM TELLURIDE FILMS 67-02 M14-61660
SELECTIVE EPITAXIAL DEPOSITION OF GALLIUM ARSENIDE IN HOLES 67-02 M14-61767
REPRODUCIBLE PREPARATION OF SN1-XPBXTE EPITAXIAL FILMS WITH MODERATE CARRIER CONCENTRATIONS 67-02 M14-61823
EVAPORATION AND DEPOSITION RATES, STICKING PROBABILITY, AND BACKGROUND PRESSURE DURING THE PRODUCTION OF THIN FILMS IN VACUUM 67-02 M14-61827
THE EPITAXIAL RELATIONSHIPS OF NUCLEI OF FE2SIO4, FORMED AT THE SITES ON IRON 67-02 M14-62251
EPITAXIAL INFLUENCE OF THE SUBSTRATES ON THE ANISOTROPY IN THIN ELECTRODEPOSITED NI-FE CYLINDRICAL FILMS 67-02 M15-61529
EPITAXIAL FILMS OF IRON, NICKEL AND COBALT 67-02 M15-62078
SOME CHARACTERISTICS OF GAAS-GE EPITAXY 67-02 M16-61083
LOW RESISTIVITY EPITAXIAL LAYERS OF SILICON 67-02 M16-61503
INFLUENCE OF THE VAPORIZATION METHOD ON THE STRUCTURE AND PROPERTIES OF AL AND CU VACUUM CONDENSATES 67-02 M17-62080
THE KINETICS OF EPITAXIAL SILICON DEPOSITION BY THE HYDROGEN REDUCTION OF CHLOROSILANES 67-03 M14-65695
ORIENTED GROWTH OF SEMICONDUCTORS. PT. 4. VACUUM DEPOSITION OF EPITAXIAL INDIUM ANTIMONIDE 67-03 M14-65874
PREPARATION OF SEMICONDUCTOR MATERIALS. PT. 3 67-03 M16-65456
EPITAXIAL GROWTH OF 3-5 MATERIALS 67-03 M16-65659
PYRCLYTIC DEPOSITS OF SILICON CARBIDE 67-04 M05-66128
EPITAXY OF TIN ELECTRODEPOSITED ON IRON 67-04 M13-66919
EPITAXIAL GROWTH OF BETA-SIC BY CARBONIZING SILICON 67-05 M14-68567
PREPARATION OF EPITAXIAL GAXIN1-XAS 67-05 M14-68623
PREPARATION AND PROPERTIES OF EPITAXIAL GALLIUM PHOSPHIDE 67-05 M14-68628
EPITAXIAL OXIDATION OF ZIRCONIUM AT VARIOUS TEMPERATURES 67-05 M18-68212
TWINNING AND MORPHOLOGY OF EPITAXIAL LAYERS OF GAAS ON GE 67-06 M13-70513
A THEORY OF ORIENTATION EFFECTS IN NUCLEATION ON A CRYSTALLINE SUBSTRATE 67-06 M14-70897
THE STRUCTURE OF SILVER FILMS DEPOSITED ON MICA SUBSTRATES IN ULTRAHIGH VACUUM 67-06 M14-71023
EPITAXIAL DEPOSITION OF GAAS IN AN ARGON ATMOSPHERE 67-06 M16-72180
PERFECT EPITAXY OF SILICON FILMS ON SILICON AS SEEN IN LARGE-AREA X-RAY TOPOGRAPHS 67-08 M14-75156
ON ORIENTED CRYSTALLISATION IN BRAZED SEAMS 67-12 M14-82417

EPITAXY, RADIATION EFFECTS
LOW-ENERGY ELECTRON DIFFRACTION STUDIES OF EPITAXIAL GROWTH OF SILVER AND GOLD IN ULTRA-HIGH VACUUM 67-05 M14-69426

EPOXY PLASTICS
SEE EPOXY RESINS

EPOXY RESINS
EPOXY RESINS FOR CORROSION PROTECTION 67-07 M05-72541
STRUCTURAL EPOXY ADHESIVES 67-07 M11-72803

EPOXY RESINS, ADHESIVES
THE ADHESIVE BONDING OF CU AND ITS ALLOYS 67-05 M12-68512

EPOXY RESINS, COATINGS
EXPERIENCES WITH EPOXY POWDER SPRAYING OF METALS 67-01 M12-57551
THE BEHAVIOR OF COATINGS AT EXTREMELY LOW TEMPERATURES 67-02 M17-59077
ELECTROCOATING STEEL PIPE WITH DRY RESIN POWDER 67-03 M12-65487
EXPERIENCE WITH EPOXY POWDER SPRAY METHODS FOR METAL COATING 67-03 M12-65568
IMPREGNATION, SEALING AND COATING WITH EPOXY RESINS 67-03 M12-65569
EPOXY SURFACE COATINGS 67-05 M18-68922

EPOXY RESINS, FIBER METALLURGY
FILAMENT-REINFORCED REFRACTORY METALS 67-07 M09-73360

EPSILON PHASE
INVESTIGATION OF THE ONSET OF THE TRANSFORMATION FROM FACE CENTERED CUBIC AUSTENITE TO HEXAGONAL EPSILON MARTENSITE 67-07 M14-73228

EPSILON PHASE, ALLOYING EFFECTS
ELECTRON MICROSCOPIC STRUCTURES OF IRON-MANGANESE ALLOYS 67-02 M13-59113
EQUATIONS
SEE BRAGG EQUATION
EQUATIONS OF STATE
EQUATIONS OF STATE
HUGONIOT EQUATION OF STATE OF ALKALI METALS 67-03 M15-65877
AN EXPERIMENTAL EQUATION OF STATE FOR ALUMINUM TO THE DEBYE APPROXIMATION 67-11 M15-81672
EQUIAXED STRUCTURE
FORMATION OF THE CHILL ZONE IN INGOT SOLIDIFICATION 67-06 M06-69936
NUCLEATION OF THE EQUIAXED ZONE IN CAST METALS 67-06 M06-69937
DIRECT OBSERVATION OF DENDRITE REMELTING IN METAL ALLOYS 67-06 M13-69945
SECONDARY RECRYSTALLIZATION IN ALPHA ZIRCONIUM 67-06 M14-71624
CONDITIONS FOR THE COLUMNAR-EQUIAXED TRANSITION DURING SOLIDIFICATION OF BINARY ALLOYS 67-07 M14-72528
SOME OBSERVATIONS ON THE STRUCTURE OF THE EQUIAXED ZONE IN ALUMINUM-COPPER ALLOYS 67-12 M13-82769
EQUIAXED STRUCTURE, HEATING EFFECTS
STUDY OF THE ISOTHERMAL SOFTENING PROCESSES OCCURRING IN UNDOPED TUNGSTEN WIRE --0.38 MM-- 67-05 M13-69860
EQUILIBRIUM
SEE CHEMICAL EQUILIBRIUM
EQUILIBRIUM CONSTANTS
SEE CHEMICAL EQUILIBRIUM
EQUILIBRIUM DIAGRAMS
SEE PHASE DIAGRAMS
ERBIUM, ALLOYING ADDITIVE
THE EFFECT OF CERTAIN RARE-EARTH SOLUTES UPON THE FCC-BCC TRANSFORMATION TEMPERATURE OF THORIUM 67-01 M14-58532
ELECTRICAL RESISTIVITY AND LONGITUDINAL ELECTRICAL MAGNETORESISTIVITY OF PALLADIUM-RICH PALLADIUM-ERBIUM ALLOYS AT LOW TEMPERATURES 67-03 M15-65214
ERBIUM, BINARY SYSTEMS
CONSTITUTION OF BINARY ALLOYS OF GADOLINIUM, DYSPROSIUM, HOLMIUM AND ERBIUM WITH MANGANESE 67-06 M14-71861
CRYSTALLOGRAPHIC STUDY OF THE SYSTEM, ERBIUM-SELENIUM 67-11 M13-81567
ERBIUM, INTERMETALLICS
MOSSBAUER EFFECT STUDY OF FERROMAGNETISM AND FERROMAGNETIC RELAXATION IN ERAL2 67-08 M16-74471
ERBIUM, MAGNETIC PROPERTIES
MAGNETIC PROPERTIES OF SOME RARE-EARTH ALLOYS AT HIGH PRESSURES 67-05 M15-69521
PRESSURE DEPENDENCE OF THE MAGNETIC TRANSITIONS IN DYSPROSIUM AND ERBIUM 67-11 M15-80659
ERBIUM, MASS SPECTROMETERS
MASS SPECTROMETRIC STUDIES AT HIGH TEMPERATURES. PT. 17. SUBLIMATION AND VAPOR PRESSURES OF DY --III--, HO --III-- AND ER --III-- FLUORIDES 67-08 M14-75294
ERBIUM, MICROSTRUCTURE
HYDRIDE HABIT PLANES AND DEFORMATION PLANES OF HCP METALS 67-11 M13-81274
ERBIUM, PHASE TRANSFORMATIONS
TEMPERATURE DEPENDENCE OF ELASTIC MODULI OF RUTHENIUM, RHENIUM, COBALT, DYSPROSIUM, AND ERBIUM., A STUDY OF THE ELASTIC ANISTROPY-PHASE TRANSFORMATION RELATIONSHIP 67-09 M17-77721
ERBIUM, SINGLE CRYSTALS
MAGNETIC AND MAGNETOSTRICTION PROPERTIES OF AN ERBIUM SINGLE CRYSTAL IN THE PARAMAGNETIC REGION 67-11 M15-81370
ERBIUM, TERNARY SYSTEMS
LATTICE SPACINGS AND EFFECTIVE ATOMIC DIAMETERS IN THE TERNARY SYSTEMS FORMED BY TH AND CE WITH Y, LA, GD AND ER, AND BY TH, PR AND Y 67-11 M13-80308
ERBIUM, THERMAL PROPERTIES
THE EFFECT OF A MAGNETIC FIELD ON THE HEAT CONDUCTIVITY OF ER POLYCRYSTALS 67-03 M15-65232
ERBIUM BASE ALLOYS, MAGNETIC PROPERTIES
MAGNETIC PROPERTIES OF SOME ALLOYS OF THORIUM WITH HOLMIUM AND ERBIUM 67-07 M15-73586
ERBIUM COMPOUNDS, DIFFUSION
SELF-DIFFUSION OF OXYGEN IN Y203 AND ER203 67-06 M14-71167
ERBIUM COMPOUNDS, SINTERING
SENSITIVE RESONANT FREQUENCY TECHNIQUE FOR THE STUDY OF SINTERING KINETICS 67-07 M09-72828
ERICHSEN DEEP DRAW TEST
SEE ERICHSEN TEST
ERICHSEN TEST
INFLUENCE OF ADDITION ELEMENTS AND SPECIAL TREATMENTS ON THE ANISOTROPY AND DRAWABILITY OF EXTRA-SOFT RIMMING STEELS 67-06 M07-72018
THE TESTING OF COLD ROLLED SHEET BY FUSION-CUP TEST ACCORDING TO DIN 50152 67-09 M17-78190
TECHNICAL CONTROL OF THE PRODUCTION OF SHEETS WITH A MAT SURFACE USED FOR DEEP DRAWING 67-10 M08-79739
A FURTHER INVESTIGATION OF THE ERICHSEN TEST 67-10 M17-78502
EROSION
SEE ALSO EROSION CORROSION
DIE EROSION IN PRESSURE DIE CASTING 67-01 M06-58231
STABILITY AND WORK HARDENING OF NICKEL-BASE ALLOYS IN EROSION CONDITIONS 67-02 M17-61219
FRACTURE OF COPPER ALLOYS BY MICROIMPACT ACTION 67-02 M17-61729
INVESTIGATION OF THE RESISTANCE TO CAVITATION AND THE KINETICS OF CAVITATION BREAKDOWN OF METALLIC ALLOYS 67-02 M18-59896
THE MECHANISM OF MATERIAL REMOVAL IN THE EROSIVE CUTTING OF BRITTLE MATERIALS 67-03 M08-65937
ON THE DUCTILE BEHAVIOR OF NOMINALLY BRITTLE MATERIALS DURING EROSIVE CUTTING 67-03 M17-65936
RESISTANCE TO CAVITATION AND MECHANICAL PROPERTIES OF METALS 67-04 M17-66870
ELECTRON MICROSCOPIC ANALYSIS OF EROSION WEAR OF 1KH18N9T STAINLESS STEEL DEPENDING ON HEAT TREATMENT AND CAVITATION EXPOSURE TIME 67-05 M13-69019
HYDROEROSION RESISTANCE OF AUSTENITIC CR-MN STEELS ALLOYED WITH NITROGEN AND SOME OTHER ELEMENTS 67-05 M17-69017
INFLUENCE OF DEFORMATION AND SUBSEQUENT RECRYSTALLIZATION-FREE ANNEALING ON CAVITATION RESISTANCE OF 1KH18N9T STAINLESS STEEL 67-05 M17-69018
EFFECT OF AN ELECTRIC FIELD ON THE CAVITATION DISINTEGRATION OF METALS 67-06 M17-70937
CORROSION/EROSION 67-06 M18-70230
WEAR MECHANISM OF THE SURFACE OF CU-ZN METAL GROUP IN THE PRESENCE OF MERCURY AND ULTRASONIC VIBRATIONS 67-07 M17-73162
EXPERIMENTS ON GAS PROTECTION OF POROUS REFRACTORY MATERIALS AGAINST OXIDATION AND EROSION IN PLASMA FLOWS 67-08 M09-74315
RESISTANCE OF CAST IRONS TO CAVITATIONAL EROSION 67-08 M17-76037
CAVITATION DAMAGE PATTERNS WITH MAGNETOSTRICTIVE OSCILLATORS 67-09 M18-76662
RESEARCH INTO THE BREAKDOWN OF STEEL BY CORROSION AND EROSION DURING THE FILTRATION OF COAL AND THE PRODUCTS OF BENEFICIATION 67-10 M18-78946
EROSION CORROSION
INVESTIGATION OF INSULATING BRICK IN STEEL PLANT SERVICE 67-01 M04-58453
THE BEHAVIOR OF PLAIN CARBON CONSTRUCTION STEELS AND FILLER MATERIALS WHEN SUBJECTED TO SAND EROSION AND CAVITATION IN HYDROTURBINE PLANTS 67-02 M18-59037
THE DESTRUCTION OF METALS BY IMPACTING HIGH-ENERGY WATER DROPS 67-02 M18-60123
RESISTANCE OF ALLOYED STEELS TO CORROSION AND EROSION 67-05 M18-68388
THE RESISTANCE OF TITANATED CARBON STEEL TO EROSION IN WATER 67-06 M12-71117
CAVITATION DAMAGE AND CRYSTAL STRUCTURE --A STUDY OF CAVITATION DAMAGE FROM THE VIEWPOINT OF MATERIAL SCIENCE. PT. 3.-- 67-06 M18-70780
CAVITATION DAMAGE STUDIES WITH ROTATING DISK IN WATER 67-06 M18-71638
DUPLEX REFRACTORY SNORKLE TUBE ADVANCES PRESSURE POURING PROCESS 67-07 M05-73843
ULTRASONIC WALL THICKNESS GAGING OF BOILER TUBES 67-07 M19-72560
EXPERIENCE WITH GAS TURBINES IN INDUSTRIAL INSTALLATIONS 67-10 M18-78769
MICROSCOPIC AND ELECTRON FRACTOGRAPHIC STUDY OF TRACES OF THE INITIAL CAVITATION EFFECTS ON METAL

EROSION CORROSION
SURFACES 67-10 M18-79221
EROSION RESISTANCE
THE DESTRUCTION OF METALS BY IMPACTING HIGH-ENERGY WATER DROPS 67-02 M18-60123
DEVELOPMENTS WITH HIGH-PURITY PERICLASE 67-04 M17-67737
A STUDY OF CONTINUOUS CASTING OF STEEL. PT. 1. EROSION RESISTANCE TESTS ON REFRACTORIES FOR TUNDISH NOZZLES USED IN CONTINUOUS CASTING OF STEEL 67-05 M04-69072
STRUCTURE AND PROPERTIES OF CAVITATION-RESISTANT 30KH10G10 STEEL 67-05 M17-69307
EFFECTS OF COMPOSITION AND STRUCTURE ON IMPINGEMENT RESISTANCE OF 70/30 CUPRO-NICKEL 67-06 M17-70877
NICKEL ELECTROPLATED NONCONDUCTIVE MATERIALS FOR PROTECTION FROM RAIN EROSION 67-07 M12-74121
METAL PIPE FOR MOLTEN ALLOYS 67-07 M18-74040
PRODUCTION OF CAST IRON INGOT MOLDS FOR STEELMAKING INDUSTRY 67-08 M04-75547
CAVITATION RESISTANCE OF CHROMIUM-MANGANESE AUSTENITIC STEELS CONTAINING NITROGEN 67-08 M18-76282
RESEARCH INTO THE EROSION-RESISTANCE, HARDENABILITY AND HEAT RESISTANCE OF 4KH5V2FS AND 3KH2V8 STEELS 67-10 M17-78979
CAVITATION RESISTANCE OF CHROMIUM-MANGANESE AUSTENITIC STEELS CONTAINING NITROGEN 67-10 M18-79275
COMPARATIVE WEARING CAPACITY OF CERTAIN METALS IN TOP GAS FLOWS 67-11 M17-81302
WEAR OF ENGINEERING MATERIALS 67-12 M17-82915
EROSION OF METALS BY SOLID PARTICLES 67-12 M18-81856
ESAKI DIODES
SEE TUNNEL DIODES
ETCH PITTING
HIGH-TEMPERATURE MICROPROFILE APPEARING ON THE SURFACE OF IRON SPECIMENS DURING FATIGUE LOADING 67-05 M17-69656
EFFECT OF THE CADMIUM IMPURITY CONCENTRATION ON THE SUBSTRUCTURE OF ZINC SINGLE CRYSTALS 67-06 M13-70193
A CONTRIBUTION TO THE STUDY OF DISLOCATIONS IN POLYCRYSTALLINE IRON BY ETCH-PIT TECHNIQUE 67-06 M13-70402
DISLOCATION STRUCTURES IN COPPER SINGLE CRYSTALS DEFORMED IN HIGH TEMPERATURE CREEP 67-06 M13-71539
DISLOCATION STRUCTURE IN AS-GROWN HIGH-PURITY IRON SINGLE CRYSTALS 67-06 M14-71527
ANODIC BEHAVIOR OF GAAS SINGLE CRYSTALS AT INCREASED CURRENT DENSITIES IN ALKALINE AND ACIDIC SOLUTIONS 67-06 M15-71148
DISLOCATION STUDIES IN BI2TE3 BY ETCH-PIT TECHNIQUE 67-07 M13-72627
X-RAY OBSERVATIONS OF ANOMALOUS ETCH PATTERNS IN SILICON CRYSTALS 67-07 M13-73325
NATURE AND MECHANISM OF DEFECT FORMATION IN ANTIMONY AND BISMUTH CRYSTALS 67-08 M13-75271
PROOF OF DISLOCATIONS IN TUNGSTEN AND MOLYBDENUM BY ELECTROLYTIC ETCHING 67-08 M13-75601
ETCHING PHENOMENA IN THE --111-- PLANE OF NIOBIUM 67-09 M13-77430
DISCREPANCIES FROM A PERFECT MATCH IN THE ETCH PATTERNS ON THE OPPOSITE CLEAVAGE FACES IN BI2TE3 67-09 M13-77447
THE ARRANGEMENT AND DISTRIBUTION OF DISLOCATIONS IN DEFORMED CU-AL SINGLE CRYSTALS 67-09 M13-77990
HIGH-TEMPERATURE CREEP AND DISLOCATION ETCH PITS IN POLYCRYSTALLINE BERYLLIUM OXIDE 67-09 M17-76754
ARRAYS OF DISLOCATION DIPOLES IN CADMIUM 67-10 M13-79014
CRYSTAL STUDIES OF SEMICONDUCTORS 67-10 M13-79287
CRYSTALLOGRAPHIC ETCH FIGURES FROM THERMAL ETCHING 67-10 M13-79354
THE EFFECT OF THE DISLOCATION STRUCTURE ON THE DISSOLUTION OF CRYSTALS 67-11 M14-80841
DISLOCATION DENSITIES IN TUNGSTEN 67-11 M17-81271
ETCH PITS IN HEXAGONAL SELENIUM CRYSTALS 67-12 M13-82379
DARK AND LIGHT PITS ON --111-- SURFACE OF COPPER 67-12 M13-82672
INVESTIGATION OF COPPER DIFFUSION IN BI2TE3 BY ETCHING TECHNIQUE 67-12 M14-82362
ETCH PITTING, HEATING EFFECTS
NATURE OF STRUCTURAL CHANGES DURING HEATING OF AL PLUS 5 PER CENT CU PLUS 0.7 PER CENT MN ALLOY WITH A DEFORMATION TEXTURE --111-- PLUS --100-- 67-05 M14-69659
ETCHING
SEE ALSO CHEMICAL ETCHING
ELECTROLYTIC ETCHING
ETCH PITTING
PHOTOETCHING
THERMAL ETCHING
VACUUM ETCHING
THE DIRECT OBSERVATION OF ETCH-PITS AT DISLOCATIONS IN MOLYBDENUM 67-01 M13-57482
METHODS OF EXPOSING HETEROGENEITIES IN SILICON SINGLE CRYSTALS 67-01 M13-57648
BEHAVIOR OF MONOCRYSTALLINE AND POLYCRYSTALLINE NICKEL IN FUSED SALTS. METALLOGRAPHIC APPLICATION OF FUSED SALTS 67-01 M13-58305
SURFACE PREPARATION AND ITS EFFECT ON THE RESULTS OF ELECTRON-BEAM MICROANALYSIS 67-01 M13-58336
DISLOCATION ETCHING OF DEFORMED MOLYBDENUM 67-01 M13-58397
ELECTRON METALLOGRAPHY TECHNIQUES APPLIED TO BODY CENTERED CUBIC METALS AND ALLOYS 67-01 M13-58761
METALLURGICAL LABORATORY PROCEDURES 67-02 M13-58922
DISLOCATION ETCH PITS AND PHASE RELATIONSHIPS IN DIMOLYBDENUM CARBIDE SINGLE CRYSTALS 67-02 M13-59068
ETCH PITTING ON DISLOCATIONS IN COPPER SINGLE CRYSTALS BY POTENTIOSTATIC ELECTROLYSIS 67-02 M13-60117
ENHANCED GAAS ETCH RATES NEAR THE EDGES OF A PROTECTIVE MASK 67-02 M13-61772
DISLOCATIONS IN ANTIMONY CRYSTALS. PT. 1. DETECTION OF DISLOCATIONS BY ETCHING --111-- PLANES IN A NEW ETCHANT 67-02 M13-61893
METHODS OF STUDYING TEXTURE IN ELECTROLYTIC DEPOSITS 67-03 M13-65105
THE MICROSTRUCTURE OF TENSILE KINKS IN CADMIUM CRYSTALS 67-03 M13-65213
PEROXIDE ETCHING OF GERMANIUM 67-03 M13-65427
ANODIC OXIDATION OF NB-SN ALLOYS 67-03 M13-65904
ON DISLOCATIONS ETCHED IN DEFORMED CADMIUM SINGLE CRYSTALS 67-04 M13-66059
STRUCTURE AND MECHANICAL PROPERTIES OF CB-V-TI ALLOYS 67-04 M13-66447
METALLOGRAPHIC STUDY OF THE STRUCTURE OF SECONDARY HARDENING ZONES 67-06 M13-70110
DETECTION OF THE STRUCTURE OF SINTERED MATERIALS OF THE ME-MEO SYSTEM BY IONIC BOMBARDMENT 67-06 M13-70966
METHODS FOR METALLOGRAPHIC PREPARATION OF UO2 AND UO2CEO2 67-06 M13-71408
THE EFFECT OF THE SURFACE CHARACTERISTICS OF 18/8 AUSTENITIC STAINLESS STEEL UPON MICROGRAPHIC ETCHING 67-06 M13-71503
THE DIFFERENTIATION BETWEEN LOW AND HIGH PHOSPHORUS ZONES IN IRON BY ETCHING 67-06 M13-71753
VACUUM THERMAL ETCHING OF GERMANIUM AND SILICON SURFACES 67-06 M13-72175
CHARACTERISTICS OF INCLUSIONS IN STEELS DEOXIDIZED WITH SILICON AND SILICO-MANGANESE. PT. 3. DEFORMATION OF NONMETALLIC INCLUSIONS IN STEEL DURING ROLLING 67-06 M13-72202
THE GROWTH AND ETCHING OF SI THROUGH WINDOWS IN SIO2 67-06 M14-72173
METHODS OF STUDYING TEXTURE IN ELECTROLYTIC DEPOSITS 67-07 M13-72787
OBSERVATIONS MADE USING LAYER ETCHING TECHNIQUES AS A MEANS OF REVEALING PRIMARY STRUCTURES 67-07 M13-73123
THE USE OF WETTING AGENTS IN METALLOGRAPHIC ETCHANTS 67-07 M13-73125
A STUDY OF THE GASEOUS ETCHING OF GERMANIUM BY OXYGEN 67-09 M13-76482
THE METALLIC ETCHING OF INDIUM ANTIMONIDE AND GERMANIUM 67-09 M13-76631
FISSION TRACK ETCHING AS A METALLOGRAPHIC TOOL 67-09 M13-77480
USE OF SELECTIVE ETCHING AND RADIOACTIVE PHOSPHORUS TO STUDY THE DISTRIBUTION OF PHOSPHORUS IN STEEL 67-09 M13-78157
EFFECT OF CRYSTALLOGRAPHIC ORIENTATION ON

ETCHING PROPERTIES OF METAL SINGLE CRYSTALS--COPPER 67-09 M13-78268
ETCHING OF GERMANIUM WITH IODIDE VAPOR IN AN ELECTRIC FIELD 67-09 M14-76769
A NEW MASKING TECHNIQUE FOR SEMICONDUCTOR PROCESSING 67-09 M15-77895
MICROGRAPHIC PRACTICE 67-10 M13-78855
THE DIFFERENTIATION OF IRON AND CHROMIUM CARBIDES THROUGH ETCHING 67-10 M13-79066
USE OF ETCH FIGURE TECHNIQUE FOR APPRAISAL OF THE IMPURITY DISTRIBUTION IN ZONE MELTED ALUMINUM 67-10 M13-79204
DETECTION OF THE SUBSTRUCTURE OF W, MO AND RE SINGLE CRYSTALS 67-10 M13-79205
A METHOD FOR DETECTION OF MICROPORES IN METALS 67-10 M13-79206
NEW INVESTIGATIONS OF HATCH ETCHING AS INFLUENCED BY ORIENTATION IN AL, CU AND FE-SI 67-10 M13-79483
METHODS OF CHEMICAL ETCHING FOR CERAMIC MATERIALS 67-11 M13-80703
METALLOGRAPHIC REAGENTS FOR THE DETERMINATION OF CHEMICAL AND PHYSICAL HETEROGENITY IN THE MICROSTRUCTURE OF IRON AND STEELS 67-11 M13-80704
STRUCTURE AND MECHANICAL PROPERTIES OF NB-V-TI ALLOYS 67-11 M13-80988
NEW METALLOGRAPHIC REAGENT FOR IRON, CARBON-ALLOY, AND TOOL STEELS 67-11 M13-81142
ETCHING AND HARDENING OF PRINT BARRELS 67-12 M10-82397
METAL STRIPPING IN THE ELECTRONICS INDUSTRY 67-12 M12-81752
DARK AND LIGHT PITS ON --111-- SURFACE OF COPPER 67-12 M13-82672
ATTACK OF GRAIN BOUNDARIES AND DEFORMATION SUBSTRUCTURES IN 99.99 PER CENT PURE ALUMINUM 67-12 M13-83490

ETCHING /METALLURGY/
SEE ETCHING
METALLOGRAPHY

ETTINGSHAUSEN EFFECT
SEE THERMOELECTRIC COOLING
THERMOMAGNETIC EFFECTS

ETTINGSHAUSEN NERNST EFFECTS
SEE THERMOMAGNETIC EFFECTS

EUROPIUM, ALLOYING ADDITIVE
SOME MAGNETIC PROPERTIES OF NI-EU ALLOYS 67-01 M15-57365

EUROPIUM, BINARY SYSTEMS
THE EUROPIUM-LEAD SYSTEM 67-12 M13-81827

EUROPIUM, INTERMETALLICS
EU2NI17 AND EUNI5 COMPOUNDS AND THEIR CRYSTAL STRUCTURES 67-06 M13-69996

EUROPIUM, OPTICAL PROPERTIES
OPTICAL PROPERTIES OF EUROPIUM AND BARIUM 67-03 M15-65746

EUROPIUM BASE ALLOYS, CRYSTAL LATTICES
COMPOUNDS OF EUNI5, TMNI5 AND LUNI5 AND THEIR CRYSTALLINE STRUCTURES 67-09 M13-76826

EUROPIUM COMPOUNDS, BAND THEORY
SPIN-POLARIZED ELECTRONIC ENERGY-BAND STRUCTURE IN EUS 67-09 M16-77173

EUROPIUM COMPOUNDS, MAGNETIC PROPERTIES
PARAMAGNETIC RESONANCE IN BINARY EU --2-- AND GD --3-- COMPOUNDS 67-01 M16-58635
MAGNETIC PROPERTIES OF EU3O4 67-02 M15-61682
TEMPERATURE DEPENDENCE OF THE SATURATION MAGNETIZATION OF THE FERRO-MAGNETIC OXIDE EUO 67-02 M15-61683
SPONTANEOUS MAGNETIZATION OF EUO AND GDN 67-03 M15-65145
MAGNETIC AND PARAMAGNETIC RESONANCE PROPERTIES OF EUAL4 67-05 M15-68282
THE SHIFT OF THE FERROMAGNETIC CURIE TEMPERATURE IN EUS BY HYDROSTATIC PRESSURE 67-06 M15-70463
MAGNETOCRYSTALLINE ANISOTROPY OF SINGLE-CRYSTAL EUROPIUM OXIDE 67-08 M16-75932

EUROPIUM COMPOUNDS, PHASE TRANSFORMATIONS
HIGH-PRESSURE AND HIGH-TEMPERATURE TRANSFORMATIONS OF RARE EARTH MONOCHALCOGENIDES 67-07 M14-72452

EUROPIUM COMPOUNDS, PHASES /STATE OF MATTER/
THE SYSTEM UO2-EU2O3 AT HIGH TEMPERATURES 67-07 M13-74233
NEW EUROPIUM AND YTTERBIUM COMPOUNDS OF CACU5 STRUCTURE IN THE MX5 SYSTEMS 67-12 M13-83254

EUTECTIC DECOMPOSITION
THE TERNARY SYSTEM INDIUM TELLURIDE-INDIUM ANTIMONIDE-ANTIMONY 67-02 M14-61594

EUTECTIC REACTIONS
SEE ALSO EUTECTIC DECOMPOSITION
GROUP IVB AND VB METAL CARBIDE-CARBON EUTECTIC TEMPERATURES 67-02 M05-61089
DISLOCATION ETCH PITS AND PHASE RELATIONSHIPS IN DIMOLYBDENUM CARBIDE SINGLE CRYSTALS 67-02 M13-59068
TH-THC PHASE DIAGRAM 67-04 M13-66274
THE CONSTITUTION OF SN-TL ALLOYS 67-04 M13-68125
CONTROLLED EUTECTICS 67-04 M14-67902
THE FORMATION OF MANGANESE SULFIDE IN GRAY CAST IRONS DURING SOLIDIFICATION 67-05 M06-68950
THE CUO-V2O5 SYSTEM 67-05 M14-68919
THE MORPHOLOGY OF SOME BINARY EUTECTIC ALLOYS 67-08 M14-74519
SUPERCOOLING OF MOLTEN CAST IRON DURING EUTECTIC SOLIDIFICATION 67-08 M14-74674
SUBGRAIN FORMATION IN FE-C-SI ALLOYS DUE TO CONSTITUTIONAL UNDERCOOLING 67-08 M14-75036
TERNARY CARBIDE EUTECTIC IN FE-C-SI ALLOYS 67-08 M14-75893
THE POSITION OF LEDEBURITE THALWEG IN THE FE-C-SI SYSTEM 67-08 M14-75894
THE STRUCTURE OF SOME EUTECTICS WITH HIGH RATIOS OF THE VOLUME FRACTIONS 67-08 M14-76054
UNIDIRECTIONALLY SOLIDIFIED EUTECTICS FOR OPTICAL, ELECTRONIC, AND MAGNETIC APPLICATIONS 67-09 M14-76722
CONTRIBUTION TO THE METALLURGY OF STRUCTURAL MODIFICATIONS IN AL-SI ALLOYS 67-09 M14-77008
FIBER REINFORCED METALS 67-09 M14-77090
THE TEMPERATURE OF THE EUTECTIC TRANSFORMATION IN THE IRON-COPPER SYSTEM 67-09 M14-77352
STRUCTURE OF LIQUID ALUMINIUM-COPPER ALLOYS 67-10 M13-78603
THE FE-C DIAGRAM--INFLUENCE OF SI AND P 67-10 M13-79691
GROWTH OF IRON-CARBON EUTECTIC 67-11 M14-81069
THE STRUCTURE OF THE ALUMINIUM-CADMIUM-TIN EUTECTIC 67-12 M13-81774
SLAG-METAL EQUILIBRIA IN THE PB-PBO-SB2O3 SYSTEM 67-12 M13-82565
STUDY OF THE URANIUM-HYDROGEN SYSTEM AT ELEVATED PRESSURES 67-12 M13-82597
CALCULATED MODEL FOR NAF-ALF3 SYSTEM 67-12 M13-82732
GROWTH OF THE SOLID-LIQUID REGION DURING ONE-DIMENSIONAL SOLIDIFICATION OF BINARY ALLOYS. PT. 1 67-12 M14-82745
THE DENDRITE-EUTECTIC TRANSITION 67-12 M14-82863
THE SOLUBILITY OF INDIUM IN LIQUID SODIUM 67-12 M14-82875
CONTRIBUTION TO THE STUDY OF MICROSEGREGATION IN FE-C CASTING ALLOYS 67-12 M14-83498

EUTECTIC REACTIONS, ALLOYING EFFECTS
INFLUENCE OF COPPER AND NICKEL ON THE STABLE AND METASTABLE EUTECTIC TEMPERATURES OF CAST IRON 67-09 M14-77837
MICROSTRUCTURE OF IRON-BORON ALLOYS 67-12 M13-81843
STUDY OF MICROSEGREGATION IN EUTECTIC ALLOYS WITH AN FE-C BASE IN STABLE AND METASTABLE SYSTEMS 67-12 M14-82520

EUTECTICS
INFLUENCE OF COPPER ON EUTECTOID TRANSFORMATION IN GRAY CAST IRON 67-01 M14-57192
EFFECT OF THE HEATING TEMPERATURE ON THE STABILITY OF THE PHOSPHIDE EUTECTIC 67-01 M14-58159
EUTECTIC SOLIDIFICATION OF OXIDIZED CAST IRON 67-01 M14-58255
ON THE RELATIONS BETWEEN THE EUTECTIC SOLIDIFICATION RATE AND THE MICROSCOPIC STRUCTURE OF CAST IRON 67-01 M14-58256
EFFECT OF STRUCTURE ON THE SUPERCONDUCTING PROPERTIES OF EUTECTIC ALLOYS 67-01 M16-57105
CONTRIBUTION TO THE EQUILIBRIUM DIAGRAM OF THE SYSTEM MERCURY-INDIUM 67-02 M13-60615
STRUCTURE OF EUTECTIC IN FE-C-V ALLOYS 67-02 M13-62273
HYDROGEN IN HYPEREUTECTIC CAST IRONS 67-02 M14-59092
THE INTERACTION OF IRON WITH MOLTEN URANIUM 67-03 M14-65855
CONTROLLED EUTECTICS 67-04 M14-67902

EUTECTICS
THE BINARY EUTECTICS GASB-GAV3SB5 AND GASB-V2GA5 67-05 M13-68277
MICROSCOPIC AND X-RAY SPECTRAL ANALYSES OF SILICO-CARBIDE EUTECTIC IN FE-C-SI ALLOYS 67-06 M14-69992
EUTECTIC COMPOSITES BY UNIDIRECTIONAL SOLIDIFICATION 67-07 M09-73362
MORPHOLOGY OF THE EUTECTIC IN FE-C-CR ALLOYS 67-08 M13-76029
THE STRUCTURES OF THE BI-SN, BI-PB AND BI-TL EUTECTICS 67-08 M13-76053
THE MICROSTRUCTURES OF TERNARY EUTECTIC ALLOYS IN THE SYSTEMS CD-SN---PB, IN, TL--, AL-CU---MG, ZN, AG--, AND ZN-SN-PB 67-09 M13-76678
ROOM TEMPERATURE MECHANICAL PROPERTIES OF CADMIUM-ZINC LAMELLAR EUTECTIC ALLOYS 67-09 M17-77928
THE DETERMINATION OF THE EUTECTIC CONSTITUTION OF BINARY ALLOYS, NI-C AND CO-C 67-10 M13-79895
THE QUASI-BINARY SECTIONS SB2TE3-IN2TE3, BI2TE3-IN2TE3 AND SB2SE3-IN2SE3 67-11 M14-80381
EUTECTICS, CASTING
THE USE OF LOW MELTING POINT ALLOYS IN THE SHAPING OF POTTERY 67-09 M06-77817
EUTECTICS, MAGNETIC PROPERTIES
MAGNETIC BEHAVIOR OF A EUTECTIC ALLOY FEATURING AN ALIGNED ARRAY OF IRON RODS 67-11 M15-80124
EUTECTICS, MECHANICAL PROPERTIES
EUTECTICS PROVIDE POSSIBLE ONE-STEP WHISKER COMPOSITES 67-03 M09-65615
EUTECTICS, MICROSTRUCTURE
THE MICROSTRUCTURE OF UNIDIRECTIONALLY SOLIDIFIED AL-CUAL2 EUTECTIC AND AL-SI EUTECTIC ALLOYS 67-05 M13-69853
MICROSCOPIC AND X-RAY SPECTRAL ANALYSES OF SILICO-CARBIDE EUTECTIC IN FE-C-SI ALLOYS 67-06 M14-69992
THE MICROSTRUCTURE AND CRYSTALLOGRAPHY OF THE ALUMINUM-GERMANIUM EUTECTIC 67-12 M13-82731
EUTECTICS, SUPERCONDUCTIVITY
SUPERCONDUCTING PROPERTIES OF EUTECTICS 67-09 M16-77463
SUPERCONDUCTIVITY OF CD-BI EUTECTIC SOLDER 67-12 M16-82373
EUTECTICS, THERMAL PROPERTIES
THERMAL PROPERTIES OF GOLD-SILICON BINARY ALLOY NEAR THE EUTECTIC COMPOSITION 67-12 M15-82372
EUTECTOID COMPOSITION
ISOTHERMAL TRANSFORMATIONS IN TITANIUM-CHROMIUM ALLOYS 67-09 M14-77069
EUTECTOID REACTIONS
THE CONSTITUTION OF SN-TL ALLOYS 67-04 M13-68125
STUDY OF A PORTION OF THE TI-AL-CR-FE-SI-B SYSTEM 67-08 M13-75897
THE LATTICE OF HEAVY METAL PHASES IN INP 67-08 M14-75901
SINGULARITIES OF THE FORMATION OF GRAPHITE EUTECTIC IN GRAY CAST IRON 67-08 M14-76031
PEARLITE AND BAINITE FORMATION IN A CU-16.5 AT. PER CENT SN ALLOY 67-09 M14-77592
EVAPORATION
SEE ALSO DISTILLATION
FLASHING
SUBHALIDE DISTILLATION
VACUUM DISTILLATION
EVAPORATION OF MANGANESE, COPPER AND TIN FROM MOLTEN IRON UNDER VACUUM 67-01 M04-58318
EPITAXIAL DEPOSITION OF GERMANIUM BY BOTH SPUTTERING AND EVAPORATION 67-01 M14-57106
X-RAY STUDY OF KINETICS OF HEATING AND EVAPORATION OF EXPLODING WIRES 67-01 M15-58600
INFLUENCE OF CAO AND SIO2 ON EVAPORATION OF ZINC FROM SOLUTION 67-02 M03-59189
THE STATE OF MAGNESIUM IN LIQUID IRON 67-02 M06-59182
HEATING AND COOLING UNIT FOR USE WITH POLAROID X-RAY CAMERA 67-02 M12-60699
MULTIPLE ELECTRON DIFFRACTION. APPLICATION TO EVAPORATING UO2 PLUS X 67-02 M13-60812
MECHANISM OF EVAPORATION OF SULFUR FROM SULFIDE SCALES 67-02 M14-58895
STUDY OF ALLOY EVAPORATION 67-02 M15-59931
THE EVAPORATION OF LANTHANUM HEXABORIDE 67-02 M15-62127
MECHANISM OF ALLOYING ELEMENTS EVAPORATION DURING THE VACUUM INDUCTION MELTING OF STEEL 67-04 M04-66731
CRUCIBLE TYPE EVAPORATION SOURCE FOR ALUMINUM 67-04 M12-67403
EVAPORATION COEFFICIENT OF BORON 67-04 M15-67786
HIGH-TEMPERATURE CHEMICAL STABILITY 67-05 M15-68996
THERMODYNAMICS OF VAPORIZATION OF THALLIC OXIDE 67-05 M15-69596
RELATION OF DEGREE OF VACUUM DURING EVAPORATION TO THE CLEANLINESS OF THE METAL-SEMICONDUCTOR CONTACT 67-05 M16-68568
HIGH TEMPERATURE CORROSION AND EVAPORATION OF HAYNES 25 AND HASTELLOY X-280 67-06 M18-70483
AN A-C ELECTRON BOMBARDMENT TECHNIQUE FOR VACUUM DEPOSITION OF CARBON 67-07 M12-72809
HIGH-TEMPERATURE VAPORIZATION AND THERMODYNAMICS OF TITANIUM OXIDES. PT. 1. VAPORIZATION CHARACTERISTICS OF THE CRYSTALLINE PHASES 67-07 M14-74215
EVAPORATION MECHANISMS OF ALLOYS 67-07 M15-72586
THE EFFECT OF ELECTROMAGNETIC FIELDS ON THE EVAPORATION OF METALS 67-07 M15-73496
PREPARATION OF FINE METAL PARTICLES BY MEANS OF EVAPORATION IN HELIUM GAS 67-08 M09-75933
SOME EXPERIMENTS IN THE REACTIVE EVAPORATION OF TANTALUM OXIDE 67-08 M14-75160
PREPARATION OF HIGH-MOBILITY THIN FILMS OF INDIUM ANTIMONIDE 67-08 M14-75161
EVAPORATION OF MANGANESE, COPPER AND TIN FROM MOLTEN IRON UNDER VACUUM 67-08 M15-74425
PROPERTIES OF TITANIUM-MOLYBDENUM ALLOY WIRE AS A SOURCE OF TITANIUM FOR SUBLIMATION PUMPS 67-08 M15-74785
VAPORIZATION KINETICS OF CERAMIC OXIDES AT TEMPERATURES AROUND 2000 C 67-08 M15-75371
EVAPORATION LAWS OF ALLOYS DURING HIGH-FREQUENCY HEATING 67-09 M14-76980
STATE OF MAGNESIUM IN MOLTEN CAST IRON 67-10 M06-78891
APPARATUS FOR EVAPORATION AND CRYSTALLIZATION OF ALUMINATE SOLUTIONS AND SEPARATION OF CRYSTALS 67-11 M03-81220
HIGH-TEMPERATURE VAPORIZATION STUDIES BY MASS SPECTROMETRY. PT. 2. THE SAMARIUM-CARBON SYSTEM 67-11 M15-80303
RATE OF VAPORISATION OF BERYLLIUM DURING THERMAL DISSOCIATION OF CEBE13 67-12 M15-82128
VAPOR PRESSURE, ENTHALPY, EVAPORATION COEFFICIENT AND ENTHALPY OF ACTIVATION OF THE BERYLLIUM NITRIDE --BE3N2-- DECOMPOSITION REACTION 67-12 M15-82994
EVAPORATION, ELECTRON BEAMS
EVAPORATION OF PERMALLOY BY ELECTRON BOMBARDMENT 67-08 M14-75158
EXCHANGERS /HEAT/
SEE HEAT EXCHANGERS
EXCHANGERS /ION/
SEE ION EXCHANGERS
EXCHANGING
SEE ANION EXCHANGING
CATION EXCHANGING
HEAT EXCHANGE
ION EXCHANGING
EXCITATION
OPTICALLY AND THERMALLY EXCITED CURRENT CARRIER TRANSITIONS WITH SURFACE TRAPS IN GAAS 67-05 M16-68339
LUMINESCENCE OF CDS EXCITED BY ELECTRONS OF VARIOUS ENERGIES 67-08 M16-75231
EXCITATION SPECTRA AND PHOTO-IONIZATION OF NEUTRAL MERCURY CENTERS IN GERMANIUM 67-09 M16-77171
ELECTRONIC EXCITATIONS IN METALS 67-10 M16-78308
EXCLUSION PRINCIPLE
SEE PAULI EXCLUSION PRINCIPLE
EXFOLIATION
SEE ALSO EXFOLIATION CORROSION
HEAT TREATMENTS OF ALUMINUM ALLOYS 67-03 M10-65949
EXFOLIATION CORROSION
FIELD TEST RESULTS OF HIGH-PRESSURE FEED WATER HEATER TUBING MATERIALS OF A POWER PLANT 67-02 M18-59143
AIRCRAFT EXFOLIATION CORROSION--METHODS FOR PREVENTION IN FASTENER HOLES 67-05 M18-68797
EXHAUST GASES

SEE ALSO FLUE GASES
MODEL TESTS ON THE KRUPP MINIMUM GAS PROCESS AS APPLIED TO THE OXYGEN-BLOWN CONVERTER 67-04 M04-66295
EFFECT OF RATE OF CARBON ELIMINATION UPON THE FORMATION OF OXIDE FUMES IN THE OXYGEN BLOWING OF STEEL. PT. 1. FORMATION OF IRON OXIDE FUMES IN CARBON ELIMINATION PROCESSES 67-06 M04-72217
DUST EXTRACTION FROM BASIC OXYGEN FURNACES WITH SUPPRESSED COMBUSTION 67-07 M04-72911
PLANNING AND CONSTRUCTION OF THE DUST EXTRACTION EQUIPMENT OF A BASIC OXYGEN STEEL PLANT AND INITIAL OPERATING EXPERIENCE 67-07 M04-72912
DUST EXTRACTION FROM CUPOLAS BY MEANS OF VENTURI TUBE SCRUBBERS 67-07 M04-73109

EXHAUST HOODS
OG GAS RECOVERY EQUIPMENT IMPROVES YIELD OF BOF PLANT 67-07 M20-72620

EXHAUST SYSTEMS
TO MUFFLE A NUCLEAR ROCKET ENGINE.. WELDED STAINLESS 67-04 M11-66250
REMOVAL OF DUST FROM ELECTRIC FURNACE WASTE GASES. PT. 1. EXPERIENCE WITH WET DUST REMOVAL BY VENTURI SCRUBBERS. PT. 2. EXPERIENCE WITH A DRY ELECTROSTATIC FILTER ON A 100-M TON ELECTRIC ARC FURNACE. PT. 3. EXTRACTION OF DUST FROM ARC FURNACES BY MEANS OF ELECTROFILTERS. PT. 4. EXPERIENCE WITH DRAWING OFF THE WASTE GASES AND WITH ELECTRICAL DUST EXTRACTION ON ARC FURNACES 67-07 M04-73240
A NEW HEAT-RESISTANT STEEL FOR INTERNAL COMBUSTION ENGINE EXHAUST VALVES 67-08 M20-75020

EXHAUST SYSTEMS, CORROSION
CONTROLLING AUTOMOBILE EXHAUST. CORROSION EFFECT ON SMOG CONTROL DEVICES 67-08 M18-75744

EXHAUST VALVES /ENGINES/
SEE ENGINE VALVES
EXHAUST SYSTEMS

EXHAUSTERS
SEE EXHAUST SYSTEMS

EXOTHERMIC REACTIONS
SEE ALSO ALUMINOTHERMIC REACTIONS
SILICOTHERMIC REACTIONS
METHODS OF PREPARING URANIUM BY MAGNESIOTHERMY 67-02 M03-60944
THE CORROSION BEHAVIOR OF AL IN PHENOL 67-02 M18-60985
COLUMBIUM METAL BY THE ALUMINOTHERMIC REDUCTION OF CB2O5 67-03 M03-65007
ON THE REACTION HEAT OF OXIDATION OR REDUCTION OF IRON ORES IN THE PROCESS OF SINTERING 67-05 M04-69478
A MICROSCOPE STUDY OF THE INITIATION OF THE HYDROGEN-URANIUM REACTION 67-05 M14-66634
THE IGNITION OF URANIUM MONONITRIDE AND URANIUM MONOCARBIDE IN OXYGEN 67-07 M15-74237
USE OF EXOTHERMIC FERROALLOYS IN THE PRODUCTION OF LOW-ALLOY OXYGEN CONVERTER STEEL 67-08 M04-76271
PHASE CHANGES IN ELECTROLYTIC CO-P DEPOSITES DURING HEAT TREATMENT 67-08 M14-74925
A SIMPLE, LOW-CONTAMINATION PREPARATIVE TECHNIQUE FOR COMPOUNDS HAVING HIGH HEATS OF FORMATION, SUCH AS RARE-EARTH-GROUP VB COMPOUNDS 67-08 M15-75298
ELECTROTHERMAL EXTRACTION OF COPPER, LEAD AND IRON FROM SLAG DUMP FROM THE ALAVERDI COPPER CHEMICAL COMBINE 67-09 M03-77039
USE OF EXOTHERMIC FERROALLOYS WHEN MELTING LOW ALLOY BASIC OXYGEN STEEL 67-10 M04-79264
METALLOTHERMIC REDUCTION OF OXIDES IN WATER-COOLED COPPER FURNACES 67-12 M03-82743

EXPANDING
SEE EXPANSION

EXPANDING AGENTS
SEE FOAMING AGENTS

EXPANSION
SEE ALSO THERMAL EXPANSION
ON CAUSES OF THE CHANGE OF DIAMETER OF SMALL SPHERICAL CASTINGS DURING SOLIDIFICATION IN SAND MOLD 67-04 M06-67115
PRESHRINKAGE EXPANSION OF IRON IN SEMICONTINUOUS CAST PIPES 67-07 M15-74048
THE CRYSTALLIZATION PRESSURE FACTOR IN THE PRESHRINKAGE EXPANSION OF CASTINGS 67-08 M14-74550

EXPANSION JOINTS
TWO SIMPLE ALUMINUM EXTRUSIONS SOLVE EXPANSION JOINT PROBLEM 67-09 M20-78169

EXPANSION JOINTS, MECHANICAL PROPERTIES
EXPERIMENTAL AND THEORETICAL STUDIES OF THE EXPANSION JOINTS IN THE PIPING SYSTEMS OF NUCLEAR REACTORS 67-08 M17-75301

EXPANSION VALVES
SEE VALVES

EXPANSIVITY
SEE EXPANSION

EXPLODING WIRES
VARIATION OF TEMPERATURE DURING THE FIRST STAGE OF AN ELECTRIC EXPLOSION OF WIRES 67-10 M15-79254

EXPLODING WIRES, THERMAL PROPERTIES
X-RAY STUDY OF KINETICS OF HEATING AND EVAPORATION OF EXPLODING WIRES 67-01 M15-58600

EXPLOSIVE BONDING
SEE EXPLOSIVE WELDING

EXPLOSIVE CLADDING
TECHNICAL PROCESSES USING SHOCK WAVES AND THEIR APPLICATION 67-04 M08-66409
EXPLOSIVE TECHNIQUE BONDS DISSIMILAR METALS 67-04 M11-66277
TITANIUM-CLAD STEEL BY EXPLOSION WELDING 67-04 M12-66134
WELDING BETWEEN CLAD SHEET STEELS 67-04 M12-66410
FATIGUE STRENGTH OF EXPLOSION-CLAD STEEL BIMETALS 67-04 M12-67802
CURRENT METHODS AND RESULTS IN EXPLOSIVE WELDING 67-05 M11-69163
EXPLOSION-BONDING PROCESS FOR METALS 67-05 M12-68479
EXPLOSION CLADS 67-05 M12-69165
METALLOGRAPHIC INVESTIGATION OF SHOCK WELDED METALS BY ELECTRON MICROSCOPY 67-05 M13-69166
FATIGUE STRENGTH OF TWO LAYER STEEL, CLAD BY EXPLOSION BONDING 67-06 M12-70302
HIGH-VELOCITY DEFORMATION METHODS 67-08 M08-75837
NEW EXPLOSION-BONDED CLAD METALS WIN ATTENTION OF DESIGNERS, FABRICATORS 67-08 M12-75703
THE EXPLOSIVE BONDING PROCESS 67-09 M11-77079
METALLIC COATINGS SOLVE ENVIRONMENTAL PROBLEMS 67-09 M12-76469
THE EXPLOSIVE-BONDING PROCESS--APPLICATIONS AND RELATED PROBLEMS 67-10 M11-79193
EXPLOSION FORCE FOR FORMING TUBULAR BIMETAL BILLETS FOR HOT DEFORMATION 67-10 M12-78390
WORKING TECHNIQUES OF TITANIUM AND TITANIUM-CLAD STEELS FOR CHEMICAL VESSELS 67-10 M12-79493
HIGH-ENERGY-RATE PROCESSES 67-11 M11-80763
EXPLOSIVE WELDING 67-11 M11-81201

EXPLOSIVE COMPACTING
EFFECT OF EXPLOSIVE SHOCK WAVES ON CERAMIC POWDERS 67-03 M09-65653
EXPLOSIVE FABRICATION AT BATTELLE-COLUMBUS 67-05 M01-68984
HIGH-VELOCITY COMPACTION OF METAL POWDERS 67-05 M09-69162
COMPACTION OF POROUS MATERIALS DURING PRESSING 67-06 M09-72319
THE COMPACTION OF METAL POWDERS 67-07 M09-73859
EXPLOSIVE COMPACTING OF METAL POWDERS 67-07 M09-73862
NEW METHODS FOR THE CONSOLIDATION OF METAL POWDERS. V 1. PERSPECTIVES IN POWDER METALLURGY 67-07 M09-73873
MANUFACTURE OF BRIQUETTES FROM IRON AND STEEL POWDERS BY THE HYDRODYNAMIC COMPACTING METHOD 67-08 M09-74906
POWDER METALLURGY 67-09 M09-78162
EXPLOSIVE COMPACTION OF POWDERED MATERIALS 67-10 M09-79528

EXPLOSIVE DRILLING
SEE DRILLING

EXPLOSIVE FORGING
SEE EXPLOSIVE FORMING
FORGING

EXPLOSIVE FORMING
THE USE OF EXPLOSIVE ENERGY IN THE DEFORMATION AND WELDING OF METALS 67-01 M07-57990
STRAIGHTENING OF STRUCTURAL COMPONENTS IN THE SHAPE OF PLATES WITH THE AID OF EXPLOSIVES 67-01 M08-58283
EXPLOSIVE WORKING OF METALS 67-02 M07-61104
USE OF EXPLOSIVES IN SHEET METAL FORMING 67-02 M08-59131
HIGH PRESSURE FORMING 67-02 M08-59149

EXPLOSIVE FORMING

EXPLOSIVE FORMING OF SHELL BOTTOMS 67-02 M08-60677
HEADING TUBES WITH EXPLOSIVE CHARGES 67-02 M08-62200
A LOOK AT SOME UNCONVENTIONAL NEW METAL-FORMING METHODS 67-03 M07-65400
FORGING TODAY 67-03 M07-65944
SOME APPLICATIONS OF EXPLOSIVE FORMING 67-03 M08-65113
SHOCK TREATMENT IMPROVES HIGH-SPEED STEEL TOOLS 67-03 M08-65118
ELECTRICAL METALFORMING. PT. 4 67-04 M07-67226
TECHNICAL PROCESSES USING SHOCK WAVES AND THEIR APPLICATION 67-04 M08-66409
HIGH-VELOCITY FORMING OF METALS 67-04 M08-66590
DEVELOPMENTS IN EXPLOSIVE FORMING 67-04 M08-66900
EXPLOSIVE FORMING AT PHILCO CORPORATION 67-05 M07-68981
GAS-DETONATION FORMING 67-05 M07-68982
EXPLOSIVE FORMING AT LTV VOUGHT AERONAUTICS DIVISION 67-05 M07-68983
AIR FORCE MATERIALS LABORATORY INTERESTS AND PAST EXPERIENCE IN HIGH-ENERGY-RATE FORMING OF METALS 67-05 M07-68985
EXPLOSIVE FORMING AT MARTIN-DENVER 67-05 M07-68986
MODEL EXPERIMENTS TO ELUCIDATE DEFORMATION OF CIRCULAR BLANKS DURING EXPLOSIVE FORMING 67-05 M07-69159
EXPERIMENTS IN METAL WORKING USING HIGH AND LOW EXPLOSIVE CHARGES 67-05 M07-69160
EXPLOSIVE CUTTING OF METALS 67-05 M08-69161
PRINCIPLES AND PRACTICES OF EXPLOSIVE FORMING 67-05 M08-69735
A SURVEY OF H. E. R. FORMING 67-05 M08-69736
FACILITIES AND TOOLING FOR EXPLOSIVE FORMING AND SOME ECONOMIC ASPECTS OF H. E. R. FORMING 67-05 M08-69737
THE EXPLOSIVE DRAWING OF SQUARE AND FLAT-BOTTOMED CIRCULAR CUPS AND BUBBLE PULSATION PHENOMENA 67-05 M08-69741
EXPLOSIVE HOT FORMING OF STEELS AND REFRACTORY METALS 67-05 M08-69742
PROBLEMS RELATING TO THE EXPLOSIVE FORMING OF FERROUS ALLOYS 67-05 M08-69748
EFFECTS OF EXPLOSIVE FORMING ON PROPERTIES OF AUSTENITIC STAINLESS STEELS 67-05 M08-69751
HIGH-VELOCITY COMPACTION OF METAL POWDERS 67-05 M09-69162
COMPARATIVE TEXTURES OF SLOWLY AND EXPLOSIVELY LOADED METALS 67-05 M13-69745
EFFECTS OF EXPLOSIVE FORMING ON THE STRAIN HARDENING IN STEEL 67-05 M14-69749
SPECIAL FABRICATION TECHNIQUES 67-06 M01-70093
SPRINGBACK CONTROL--KEY TO ACCURACY IN EXPLOSIVE FORMING 67-06 M07-70568
HIGH ENERGY-RATE FORMING SOME UNUSUAL APPLICATIONS 67-06 M07-70865
TAKING THE HIT-AND-MISS OUT OF EXPLOSIVE FORMING 67-06 M07-71051
EXPLOSIVE-FORMING CHARACTERISTICS OF MATERIALS 67-06 M07-71514
EXPLOSIVE FORMING AT NORTH AMERICAN AVIATION 67-06 M07-71582
BLAST FORMING BOOSTS HSS TO 73 RC 67-06 M07-71588
NEW METHODS OF FORMING STEEL 67-06 M07-72009
HERF IS MOVING RAPIDLY TOWARD PRODUCTION PHASE 67-06 M08-71886
OBSERVATIONS OF SUBSTRUCTURES IN EXPLOSIVELY DEFORMED AND ANNEALED BETA BRASS 67-06 M14-69938
METALWORKING PROCESS DEVELOPMENT 67-07 M07-72748
HIGH-ENERGY-RATE SHEET-METAL FORMING 67-07 M07-72999
FUNDAMENTAL INVESTIGATIONS INTO EXPLOSIVE FORMING AT MAXIMUM STRAIN RATES 67-07 M17-73026
A SIMPLE TECHNIQUE FOR SHOCK DEFORMING METAL FOILS 67-08 M08-74393
VARIETY OF HERF METHODS USED FOR GD/FORT WORTHS F-111 67-08 M08-74732
SHOCK FORMING BANGS OUT COMPLEX PARTS ACCURATELY 67-08 M08-74740
HIGH-VELOCITY DEFORMATION METHODS 67-08 M08-75837
THE EFFECT OF EXPLOSIVE FORMING ON MATERIAL PROPERTIES 67-09 M08-76902
EFFECT OF HIGH-ENERGY-RATE DEFORMATION ON THE STRENGTHENING OF COPPER 67-09 M08-77132
HIGH VELOCITY METALWORKING 67-09 M08-77382
EXPERIMENTS AND EFFICIENCY CONSIDERATIONS IN HIGH-RATE FORMING 67-09 M08-77510
EXPLOSIVE FORMING OF HIGH STRENGTH ALLOYS USED IN BOOSTER STRUCTURES 67-09 M08-77805
EXPLOSIVE FORMING OF THICK METAL PLATES 67-10 M08-78470
DEVELOPMENTS IN THE FORMING OF METALS 67-10 M08-79307
CONTROL OF SPRINGBACK BY POSITIVE EDGE RESTRAINT DURING HIGH ENERGY DEFORMATION 67-10 M08-79527
THE USE OF SCALE MODELS IN THE DEVELOPMENT OF EXPLOSIVE FORMING PARAMETERS 67-10 M08-79529
SOME APPLICATIONS OF EXPLOSIVE FORMING 67-10 M20-78600
EXPLOSIVE METALWORKING 67-11 M08-80481
EXPLOSIVE FORMING AT NORTH AMERICAN AVIATION 67-11 M08-80680
HIGH-VELOCITY METALWORKING PROCESSES 67-11 M08-81367
HIGH-ENERGY-RATE PROCESSES 67-11 M11-80763
THE RUPTURE BEHAVIOUR OF METALS AT HIGH STRAIN RATES 67-11 M17-81527
STRESS CORROSION OF EXPLOSIVELY DEFORMED HIGH-STRENGTH ALLOYS 67-11 M18-80296
RECENT DEVELOPMENTS IN SHEET-METAL FORMING 67-12 M08-82657
RESEARCH AND DEVELOPMENT OF HIGH-RATE FORMING TECHNIQUES 67-12 M08-83235
EXPLOSIVES BLAST METAL INTO SHAPE 67-12 M08-83480

EXPLOSIVE FORMING, CORROSION EFFECTS
STRESS-CORROSION OF EXPLOSIVELY DEFORMED HIGH STRENGTH ALLOYS 67-05 M18-68713

EXPLOSIVE GAS FORMING
SEE EXPLOSIVE FORMING

EXPLOSIVE HARDENING
EXPLOSION STRENGTHENING OF G13L STEEL 67-02 M17-59557
INVESTIGATION OF THE DUCTILITY OF SOME AUSTENITIC STEELS AT HIGH LOAD RATES 67-02 M17-59943
EXPLOSIVE SHOCK HARDENING.. NEW TOOL SHOWS PROMISE 67-02 M17-60246
STRAIN HARDENING OF COPPER AT IMPULSE LOADING 67-03 M17-65590
TECHNICAL PROCESSES USING SHOCK WAVES AND THEIR APPLICATION 67-04 M08-66409
STUDY OF THE EFFECT OF SHOCK WAVES ON AUSTENITE TRANSFORMATION 67-04 M14-67854
EXPLOSION STRENGTHENING OF ARMCO IRON 67-04 M17-67646
FORMATION OF DEFORMATION MARTENSITE ON EXPLOSIVE SHOCK LOADING OF AUSTENITIC STEELS 67-05 M14-68248
EFFECTS OF EXPLOSIVE FORMING ON THE STRAIN HARDENING IN STEEL 67-05 M14-69749
HARDENING AUSTENTIC MANGANESE STEEL BY EXPLOSIVES. A BRIEF SUMMARY OF SEVERAL PAPERS PREVIOUSLY PUBLISHED 67-05 M17-69747
DUCTILITY OF CERTAIN AUSTENITIC STEELS UNDER HIGH-VELOCITY LOADING 67-07 M17-72598
STRENGTHENING OF DISPERSION HARDENING ALLOYS SUBJECTED TO HIGH-VELOCITY DEFORMATION 67-09 M14-76442
HIGH-MANGANESE STEEL HARDENED BY EXPLOSION 67-10 M17-78377
STUDY OF THE CHARACTERISTICS OF STEEL DURING DEFORMATION AT HIGH RATES 67-10 M17-79741
STRUCTURAL EFFECTS IN PULSED STRAINING OF LOW-CARBON STEEL 67-12 M13-81716
RESIDUAL DEFORMATION AND HARDENING DURING EXPLOSIVE TREATMENT OF METALS 67-12 M17-82348
THE STRENGTH OF FERRITE AND OF MARTENSITE AS FUNCTIONS OF COMPOSITION, TEMPERATURE AND STRAIN RATE 67-12 M17-83063
INFLUENCE OF DEFORMATION RATES ON DUCTILITY OF SOME STEELS AND ALLOYS 67-12 M17-83529

EXPLOSIVE IMPACT TESTS
NATURE OF THE SHOCK ZONE IN IRON AND STEEL 67-01 M17-57354
EFFECT OF REPEATED HEAT TREATMENT ON MECHANICAL PROPERTIES OF CARBON STEEL 67-02 M17-59667
RELATION BETWEEN THE CRITICAL RUPTURE STRESSES AND THE FRACTURE TIME DURING EXPLOSIVE LOADING OF

METALS 67-02 M17-59668
ELASTIC-PLASTIC PROPERTIES OF A SERIES OF METALS DURING EXPLOSIVE LOADING 67-02 M17-59937
EXPERIMENTAL AND THEORETICAL STUDIES OF EXPLOSIVE-INDUCED LARGE DYNAMIC AND PERMANENT DEFORMATIONS OF SIMPLE STRUCTURES 67-04 M08-66677
THE EFFECT OF STRAIN RATE ON THE STRESS-STRAIN RELATIONSHIP AND DUCTILITY 67-05 M17-69155
TESTING TECHNIQUES AT IMPACT RATES OF STRAIN 67-05 M17-69158
AN EXPERIMENTAL INVESTIGATION OF ELASTIC-PLASTIC PULSE PROPAGATION IN ALUMINUM RODS 67-06 M17-71713
ELASTOPLASTIC PROPERTIES OF A NUMBER OF METALS EXPOSED TO EXPLOSIVE SHOCK LOADING 67-07 M17-72592
CRACK NUCLEATION SITES IN LOW-CARBON STEELS UNDER EXPLOSIVE LOADING CONDITIONS 67-08 M17-74521
THE STRUCTURE AND MECHANICAL PROPERTIES OF SHOCK-LOADED STEELS 67-08 M17-75332

EXPLOSIVE LIQUID FORMING
SEE EXPLOSIVE FORMING

EXPLOSIVE WELDING
TECHNIQUES APPLIED IN JOINING PIPES FOR PETROLEUM INDUSTRY 67-01 M11-58349
EXPLOSIVE TECHNIQUE BONDS DISSIMILAR METALS 67-04 M11-66277
COLD AND PRESS WELDING AT HIGH UPSETTING RATES 67-04 M11-66808
EXPLOSIVE FABRICATION AT BATTELLE-COLUMBUS 67-05 M01-68984
CURRENT METHODS AND RESULTS IN EXPLOSIVE WELDING 67-05 M11-69163
ASPECTS RELATING TO THE WELDING MECHANISMS 67-05 M11-69164
NEW METHODS OF FORMING STEEL 67-06 M07-72009
EXPLOSIVE WELDING 67-06 M11-70130
BINDING MECHANISM IN EXPLOSION WELDING 67-07 M11-73715
THE THERMODYNAMIC PROCESSES INVOLVED IN EXPLOSION WELDING 67-07 M11-73716
EXPLOSIVE WELDING TODAY 67-07 M11-74259
CHAMBER SOFTENS BLOW IN EXPLOSIVE BONDING 67-08 M11-75531
COLD AND FORGE WELDING WITH HIGH UPSETTING RATES 67-08 M11-75912
NEW EXPLOSION-BONDED CLAD METALS WIN ATTENTION OF DESIGNERS, FABRICATORS 67-08 M12-75703
THE EXPLOSIVE BONDING PROCESS 67-09 M11-77079
TRANSITION TO TURBULENT FLOW IN CRYSTALS 67-10 M11-78695
HIGH-ENERGY-RATE PROCESSES 67-11 M11-80763
EXPLOSIVE WELDING 67-11 M11-81201
EXPLOSIVE DONGING 67-12 M11-82989

EXTENSOMETERS
SEE ALSO STRAIN GAGES
THE ELASTIC BEHAVIOR OF GRAY CAST IRON. PT. 1. GENERAL AND EXPERIMENTAL PART 67-02 M17-60020
DESCRIPTION OF A SIMPLE EXTENSOMETER DETERMINING THE ELASTIC LIMIT AT HIGH TEMPERATURE. EXAMPLES OF APPLICATIONS 67-05 M17-68784
MOIRE METHOD OF SURFACE STRAIN MEASUREMENT 67-09 M19-77558

EXTRACTION
SEE ALSO LIQUID LIQUID EXTRACTION
LIQUID METAL EXTRACTION
SOLVENT EXTRACTION
RECOVERING COPPER FROM CONVERTER SLAGS BY FLOTATION 67-01 M02-57268
A CONTINUOUS-ACTION PERCOLATION EXTRACTOR --LEACHER-- FOR ALUMINA PRODUCTION SINTERING 67-01 M02-57274
SOME CHARACTERISTICS OF THE SEPARATION OF ZIRCONIUM AND HAFNIUM BY CRYSTALLIZATION OF COMPLEX FLUORIDES 67-01 M02-57307
USE OF AMMONIUM CHLORIDE FOR SEPARATING NIOBIUM AND TANTALUM IN HCL-HF SOLUTIONS WITH ANIONITES 67-01 M02-57308
A HYPOCHLORIDE METHOD OF TREATING DUST WASTES FROM CERMET TOOL SHARPENING 67-01 M02-57310
CONE-TYPE PRECIPITATORS FOR IMPROVED COPPER RECOVERY 67-01 M03-57936
PROPERTIES OF TITANIUM PREPARED BY SODIUM REDUCTION PROCESS 67-01 M03-58544
DETERMINING HYDROGEN CONTENT IN NIOBIUM BY HIGH-TEMPERATURE VACUUM HEATING 67-01 M19-58206
DEVELOPMENTS IN THE PRODUCTION AND FABRICATION OF NON-FERROUS METALS 67-02 M01-61649
CHEMICAL BENEFICIATION OF TANTALUM NIOBIUM IRON PRODUCTS USING HYDROCHLORIC ACID 67-02 M02-59546
RECOVERY OF RUBIDIUM FROM SULFATE SOLUTIONS CONTAINING ZINC 67-02 M02-59597
DEVELOPMENT AND STUDY OF THE CHEMICAL PROCESS OF MANGANESE RECOVERY FROM SLURRIES 67-02 M02-59692
A HYDROCHEMICAL METHOD OF REPROCESSING ALUMINA-BEARING RAW MATERIALS 67-02 M02-61546
COMMERCIAL TESTING OF A HYDRO-METALLURGICAL METHOD OF REPROCESSING COPPER-BISMUTH CONCENTRATES 67-02 M02-61604
DESILICONIZING CAPACITY OF LIME ON THE BASIS OF DATA ON THE NA2O-AL2O3-CAO-CO2-SIO2-H2O SYSTEM 67-02 M02-62049
THE STUDIES ON THE POSSIBILITIES OF THORIUM RECOVERING FROM POLISH THORIUM ORES 67-02 M03-59129
DECOPPERIZATION OF NICKEL-CONTAINING CONVERTER SLAGS WHICH ARE BYPRODUCTS OF COPPER PRODUCTION 67-02 M03-59188
INFLUENCE OF CAO AND SIO2 ON EVAPORATION OF ZINC FROM SOLUTION 67-02 M03-59189
AUTOCLAVE LEACHING OF NICKEL MATTES 67-02 M03-59191
KINETICS OF EXTRACTION OF AL2O3 FROM SINTER IN COUNTERFLOW LEACHING APPARATUS 67-02 M03-59192
APPARATUS FOR CONTROL OF ALUMINA PRODUCTION 67-02 M03-59193
USE OF COMPUTERS FOR CENTRALIZED CONTROL OF TITANIUM SPONGE MANUFACTURING 67-02 M03-59195
PRECIPITATION OF V2O5 FROM INDUSTRIAL SULFURIC ACID SOLUTIONS 67-02 M03-59196
METALLOTHERMIC REDUCTION OF BERYLLIUM OXIDE 67-02 M03-59430
HYDROMETALLURGICAL PROCESSING OF INTERMEDIATE PRODUCTS OF BENEFICIATION OF UDOKAN COPPER ORES 67-02 M03-59541
MANGANESE EXTRACTION FROM LEAN ORES BY ROASTING WITH ADDITION OF AMMONIUM SALTS 67-02 M03-59542
PRODUCTION OF METALS OR ALLOYS FROM ASH, SCALE AND FROM THE LIGHT FRACTION OF FUSIBLE ALLOYS 67-02 M03-59573
PROBLEMS OF EXTRACTING MANGANESE USING RECENTLY PUBLISHED DATA 67-02 M03-59585
EXTRACTION OF NOBLE METALS FROM ANTIMONY CONCENTRATES 67-02 M03-59586
METHOD OF PREPARING NICKEL AND COBALT FROM HYDRATED SILICEOUS ORES 67-02 M03-59591
METHOD OF PREPARING NICKEL FROM OXIDES 67-02 M03-59592
USE OF CARNALLITE IN CHLORINATION ROASTING 67-02 M03-59595
PROBLEMS OF BENEFICIATION OF CARBONACEOUS AURIFEROUS ORES 67-02 M03-59598
METHOD OF RECOVERING METALS OF THE PLATINUM AND GOLD GROUPS 67-02 M03-59599
AURIFEROUS ORES OF THE EASTERN SAYAN DEPOSITS AND THEIR REPROCESSING 67-02 M03-59600
CRYSTALLIZATION OF METALS ON THE CATHODE DURING ELECTROLYSIS OF FUSED SALTS 67-02 M03-59647
VOLATILIZING ROASTING OF LEAN OXIDIZED-SULFIDE ANTIMONY ORE BY AN AIR SUCTION METHOD 67-02 M03-59843
SEPARATION OF ANTIMONY AND ARSENIC IN THE PRODUCTION OF METALLIC ANTIMONY AND ITS COMPOUNDS 67-02 M03-59844
DECOMPOSITION OF LEAN ZIRCON-PYROCHLORE CONCENTRATES BY HYDROFLUORIC ACID 67-02 M03-59850
RATIONAL METHODS OF TREATING GOLD CONTAINING CONCENTRATES AND FLUXED ORES 67-02 M03-60559
FIRE REFINING OF CRUDE LEAD AT THE UKSTSK LEAD-ZINC COMBINE 67-02 M03-60564
METHODS OF PREPARING URANIUM BY MAGNESIOTHERMY 67-02 M03-60944
APPLICATION OF ZINC CONDENSATION IN THE ELECTROTHERMIC PROCESSING OF SILVER FOAM 67-02 M03-60953
VOLATILIZATION OF ZINC FROM POLYMETALLIC CONCENTRATES SIMULTANEOUSLY WITH FLUIDIZED BED OXYGEN SMELTING 67-02 M03-60955
INTALCO--HIGHLY EFFICIENT PRODUCER 67-02 M03-61593
BEHAVIOR OF GOLD DURING THE GRINDING PROCESS

67-02 M03-61601
STUDY OF THE SINGULARITIES OF THE VOLATILIZATION OF ZINC WHEN NATURAL GAS IS USED
67-02 M03-61607
REASONS FOR HIGH-SILVER CONTENT IN SLAGS FROM CUPELLATION OF ARGENTIFEROUS LEAD
67-02 M03-61609
CARBOTHERMAL REPROCESSING OF SODIUM ALUMINATE
67-02 M03-61611
PRODUCING ALKALI METALS AND ALUMINUM OXIDE BY ALUMOTHERMIC REDUCTION OF ALUMINATES
67-02 M03-61717
STUDY OF SORPTION AND SEPARATION OF URANIUM --4-- FROM NITRIC ACID SOLUTIONS 67-02 M03-61726
PURIFYING NICKEL ELECTROLYTES OF COBALT BY AMINE EXTRACTION 67-02 M03-62045
EXTRACTION OF LEAD BY SOME AMINES AND CHLOROUS SALTS WITH QUATERNARY AMMONIA BASE
67-02 M03-62046
CHARACTERISTICS OF PRODUCTS OF ELECTROLYTIC REFINEMENT OF SOME TITANIUM WASTES
67-02 M03-62055
USING MATHEMATICALLY PLANNED EXPERIMENTS FOR STUDYING THE PROCESS OF PRODUCING TANTALUM BY HYDROGEN REDUCTION OF TANTALUM PENTACHLORIDE ON A HEATED SURFACE 67-02 M03-62247
LIQUATION DURING SINTERING IN THE PRESENCE OF A MOLTEN PHASE WITH INCOMPLETE WETTING OF THE SOLID COMPONENT BY THE MOLTEN PHASE
67-02 M14-59559
MERCURY AS A PRODUCT OF IMAGINATION AND INNOVATION
67-03 M03-65413
RATE OF SOLUBILITY OF CHRYSOCOLLA AND MALACHITE DURING AGITATIONAL SULFURIC ACID LEACHING
67-03 M03-65575
OBTAINING NIOBIUM AND TANTALUM OXIDES FROM ZIRCON-PYROCHLOROUS CONCENTRATE 67-03 M03-65583
ALUMINIUM REDUCTION WORKS IN WASHINGTON
67-03 M03-65717
RECOVERY OF ZINC AND LEAD FROM COMPLEX LOW-GRADE SULPHIDE CONCENTRATES BY ACID PRESSURE LEACHING
67-04 M02-66676
CARBON ADSORPTION IS KEY TO RECOVERY OF MOLYOXIDE AT NEW CLIMAX PLANT 67-04 M02-67497
NONFERROUS METALS AND THE CHEMICAL ENGINEER. PT. 4. LEAD, ZINC, AND MOLYBDENUM 67-04 M03-66332
USE OF SPONGE IRON IN THE V-TROUGH PRECIPITATOR
67-04 M03-66892
EXTRACTING MOLYBDENUM FROM ALKALINE SOLUTIONS
67-04 M03-66961
STUDY OF TELLURIUM EXTRACTION FROM ALKALINE SOLUTIONS 67-04 M03-67125
EXTRACTING RHENIUM FROM UNTREATED MOLYBDENUM SULFIDE CONCENTRATES 67-04 M03-67128
PROPERTIES AND TECHNOLOGICAL TREATMENT OF VANADIUM TRICHLORIDE FOR PRODUCING A VANADIUM METAL
67-04 M03-67134
FIRST COMMERCIAL-SCALE H2 REDUCTION PLANT FOR CU ON STREAM 67-04 M03-67496
RECOVERING NON-FERROUS AND RARE METALS FROM LEAD CAKES, USING THE SULFATIZATION METHOD
67-04 M03-67522
TRENDS AND PROSPECTS IN THE DEVELOPMENT OF THE TIN SMELTING PROCESS 67-04 M03-67523
DECOPPERING CHLORIDE NICKEL AND COBALT ELECTROLYTES BY MEANS OF ION EXCHANGE
67-04 M03-67524
DECOPPERING AND DELEADING CADMIUM SOLUTIONS
67-04 M03-67525
ON THE EXTRACTION OF NICKEL AS NICKEL CARBONYL FROM LATERITIC ORES 67-04 M03-67721
AN AQUEOUS CHLORINATION PROCESS FOR THE TREATMENT OF MERRILL SLIMES AND GRAVITY CONCENTRATES FROM GOLD ORES. PT. 1. A STUDY OF THE CHEMISTRY OF THE PROCESS AND A REPORT OF LABORATORY TEST WORK
67-04 M03-67757
OBTAINING PURE METALS BY CHEMICAL METHODS
67-04 M03-67843
EXTRACTION OF PLUTONIUM FROM URANIUM-PLUTONIUM ALLOY WITH URANIUM TRICHLORIDE
67-04 M14-68119
ON EXTRACTION OF NICKEL FROM LATERITES AND GARNIERITE BY SEGREGATION ROASTING PROCESS
67-05 M02-69362
EXTRACTING NOBLE METALS FROM CYANIDE SOLUTIONS WITH QUATERNARY AMMONIUM COMPOUNDS
67-05 M03-68224
AUTOMATIC CONTROL OF PH DURING DEPOSITION OF IN CONCENTRATE 67-05 M03-68232
RHENIUM--ITS EXTRACTION AND USES
67-05 M03-68430
USING ACTIVATED CARBON IN THE FILTERLESS TREATMENT OF GOLD-BEARING ORES 67-05 M03-68964
STUDY OF THE SORPTION AND SEPARATION OF IONS OF CERTAIN METALS BY PHOSPHORYLIZED CELLULOSE
67-05 M03-68969
OBTAINING A COPPER-FREE CEMENT BISMUTH FROM COPPER CONCENTRATE 67-05 M03-69532
EXTRAGTION OF METALS BY POLYALLYLCHLORIDE PHOSPHONIC ACID 67-05 M03-69543
AN INTENSIFIED METHOD OF EXTRACTING THORIUM AND RARE EARTHS FROM MONAZITE BY TREATING IT WITH ALKALIS 67-06 M03-69969
CEMENTATION OF NOBLE METALS FROM CYANIDE SOLUTIONS 67-06 M03-69974
REDUCING NIOBIUM PENTACHLORIDE BY HYDROGEN
67-06 M03-70000
OBTAINING MOLYBDENUM FROM A GAS PHASE
67-06 M03-70142
REMOVAL OF CERIUM FROM SAMARIUM BY THE AMALGAM METHOD 67-06 M03-70158
CEMENTATION OF THALLIUM FROM SULFURIC ACID SOLUTIONS BY ZINC GALLAM 67-06 M03-70906
EFFICIENT SYSTEM FOR THE TREATMENT OF AURIFEROUS JIG CONCENTRATES 67-06 M03-70941
ION EXTRACTION BY FOAM. SEPARATION OF URANIUM FROM THORIUM IN HYDROCHLORIDE MEDIUM
67-06 M03-71018
FRACTIONAL RE-EXTRACTION OF METALS FROM POLYMETALLIC SOAPS 67-06 M03-71350
SEPARATION OF COPPER AND SULFUR FROM HIGH-FERROUS OXIDE MELTS 67-06 M03-72103
EXTRACTION OF NIOBIUM HYDROCOMPOUNDS FROM HYDROCHLORIDE SOLUTIONS BY TRIBUTYL-PHOSPHATES
67-06 M03-72112
THE MECHANISM OF EXTRACTION OF AL2O3 FROM SINTERED CAKE 67-07 M02-73415
PROCESSING OXIDE AND CARBONATE MANGANESE ORES, BENEFICIATION TAILINGS AND BYPRODUCTS CONTAINING MANGANESE 67-07 M03-73038
USE OF ION EXCHANGERS DURING TREATMENT OF AURIFEROUS ORES FROM THE KURANAKH DEPOSITS
67-07 M03-73409
REDUCTION OF ANTIMONY FROM SULFIDE-ALKALI SOLUTION WITH COPPER 67-07 M03-73417
SOLVENT EXTRACTION OF PROTACTINIUM, NIOBIUM AND TANTALUM FROM CITRATE SOLUTIONS
67-07 M03-73899
AN ECONOMIC AND TECHNICAL EVALUATION OF MAGNESIUM PRODUCTION METHODS. PT. 2. CARBOTHERMIC
67-07 M03-74199
PRECIPITATION OF COPPER FROM DILUTE SOLUTIONS USING PARTICULATE IRON 67-08 M03-75311
SLIMES TREATMENT AND SILVER REFINING OPERATIONS BY THE CERRO DE PASCO CORPORATION AT LA OROYA, PERU 67-08 M03-75619
EXTRACTION OF RARE EARTHS FROM HYDROCHLORIC SOLUTIONS BY AN EXTRACTANT MIXTURE
67-08 M03-75872
EXTRACTION OF IRIDIUM --4-- FROM HYDROCHLORIC SOLUTION WITH THE ANP COLLECTOR
67-08 M03-76236
STATE OF ELECTROTHERMIC ZN PRODUCTION AT DUISBERGER COPPER WORKS 67-08 M03-76259
COMPLEX PROCESSING OF ALUMINOUS IRON ORES
67-08 M04-75144
THE OXIDATION CONDITIONS OF GOLD CONTAINING ARSENICAL PYRITES 67-09 M02-76948
ECONOMIC PROBLEM OF ENERGY SUPPLY FOR THE PRODUCTION OF ALUMINUM OXIDE BY SINTERING
67-09 M03-76739
MODIFIED TECHNIQUES OF SEPARATING COBALT FROM NICKEL 67-09 M03-76803
EXTRACTION OF CADMIUM FROM DUST FORMED DURING THE MANUFACTURE OF LEAD 67-09 M03-76807
TITANIUM MADE FROM POWER STATION ASH
67-09 M03-76811
METHOD OF EXTRACTING PLATINUM FROM ALUMOPLATINUM CATALYST WASTE 67-09 M03-76837
OBTAINING MAGNESIUM METAL 67-09 M03-76866
ON INTENSIFYING THE CEMENTATION OF METALS ON ZINC FROM SULFATE SOLUTIONS 67-09 M03-76889
PILOT PLANT PRODUCTION OF NUCLEAR GRADE ZIRCONIUM SPONGE FROM INDIAN ZIRCON 67-09 M03-78132
FAST EXTRACTION IN FUEL PROCESSING
67-09 M16-77201
ALKALI-ELECTROLYTIC METHOD FOR EXTRACTION OF ARSENIC FROM CONVERTER DUST 67-10 M03-79037

SINTERING OF ORTHITE IN A LOW-ALKALI CHARGE
67-10 M03-79039
THEORY AND PRACTICE OF TREATING KAZAKHSTAN ALUMINA-BEARING RAW MATERIAL 67-10 M03-79807
ON THE REACTION OF SELENIUM DIOXIDE WITH LEAD SULFIDE 67-10 M03-79828
REPROCESSING DEEP-SINTERED COPPER-ZINC MATERIALS IN REVERBERATORY FURNACES 67-10 M03-80049
REMOVAL OF ARSENIC FROM SOLUTIONS DURING TREATMENT OF DUST FROM THE COPPER SMELTING INDUSTRY
67-10 M03-80050
METHOD OF PRECIPITATING ZINC FROM COMPLEX SOLUTIONS AFTER EXTRACTION OF COPPER 67-10 M03-80052
STUDY OF VANADIUM DISTRIBUTION DURING TREATMENT OF HIGH-SILICON BAUXITES BY THE BAYER-HYDROCHEMISTRY METHOD 67-10 M03-80056
PRECIPITATION OF MOLYBDENUM AND TUNGSTEN FROM ACID AQUEOUS SOLUTIONS --EXTRACTION WITH TRIBUTYL PHOSPHATE-- 67-10 M03-80074
WET OXIDATION OF IRON SULPHIDE CONCENTRATES CATALYZED BY NITRIC ACID 67-10 M04-78743
RECOVERY OF MOLYBDENITE AT TOQUEPALA
67-11 M02-81206
POSSIBILITIES OF INCREASING GOLD AND SILVER EXTRACTION IN THE BENEFICIATION OF OXIDIZED LEAD ORES FROM THE FIFTH LODE OF THE MADZHAROVO DEPOSIT 67-11 M02-81616
SOME FACTORS INFLUENCING THE RATE OF DISSOLUTION OF GOLD IN SODIUM CYANIDE SOLUTIONS
67-11 M03-80671
INFLUENCE OF ATMOSPHERIC TEMPERATURE ON PERFORMANCE OF LARGE-CAPACITY ALUMINUM ELECTROLYTIC CELLS
67-11 M03-80753
ECONOMIC COMPARISON OF VARIOUS METHODS FOR COMPLEX PROCESSING OF RED SLURRIES 67-11 M03-80754
ACID-EXTRACTION TREATMENT OF TUNGSTEN-MOLYBDENUM MATERIALS 67-11 M03-80755
METHOD OF OBTAINING ALUMINA 67-11 M03-81222
METHOD FOR PROCESSING COPPER DROSS
67-11 M03-81224
USE OF WATER-SOLUBLE AMINES IN THE TECHNOLOGY OF PROCESSING TANTALUM-NIOBIUM PRODUCTS
67-11 M03-81231
CHEMICAL TREATMENT OF COLUMBITE AND MICROLITE CONCENTRATES 67-11 M03-81232
STUDY OF THERMAL REDUCTION OF POLYMORPHOUS URANIUM TRIOXIDE WITH CARBON 67-11 M03-81233
CARBONATE METHOD FOR THE SEPARATION OF RARE-EARTH ELEMENTS 67-11 M03-81318
THERMODYNAMICS OF REDUCTION OF RUBIDIUM CHLORIDE BY SILICOCALCIUM 67-11 M03-81439
STUDY OF THE REDUCTION OF RUBIDIUM FLUROIDE BY SILICOCALCIUM 67-11 M03-81440
STUDY OF SILICOCALCIO-THERMAL PREPARATION OF CESIUM FROM ITS FLUORIDE 67-11 M03-81441
PROCESSING LOW-GRADE BAUXITES TO ALUMINA
67-11 M03-81506
INVESTIGATION OF THE RATE OF ALUMINUM LOSS IN A CRYOLITE-ALUMINA MELT 67-11 M03-81509
THE INFLUENCE OF LIME ON THE AMOUNT OF WATER-SOLUBLE VANADIUM PENTOXIDE IN ALLOYS OF THE SYSTEM CAO-V2O5-NA2O 67-11 M03-81510
REDUCTION OF ZINC FROM ZINC FERRITE IN THE PRESENCE OF CARBON 67-11 M03-81611
NOBLE METAL RECOVERY FROM BALANCED LEAD ORES OF THE MADZHAROVO DEPOSIT 67-11 M03-81614
INVESTIGATION OF CONDITIONS OF ROASTING A COPPER-PYRITE CONCENTRATE CONTAINING AN INCREASED AMOUNT OF RARE METALS 67-11 M03-81617
IMPROVED TECHNIQUES AND INCREASED LEAD RECOVERY IN PROCESSING LEAD-COPPER MATTE AND SPEISS IN THE G. DIMITROV WORKS 67-11 M03-81619
METHOD AND DEVICE FOR RECIRCULATORY HEATING OF ZINC RECTIFICATION COLUMNS 67-11 M03-81621
EXTRACTION OF SILVER FROM LEAD OBTAINED BY A PYROMETALLURGICAL METHOD 67-11 M03-81622
METHOD OF EXTRACTING SULFUR FROM IRON-CARBON-SULFUR MELTS 67-11 M14-81213
INVESTIGATION OF CERTAIN FACTORS INFLUENCING ALUMINA QUALITY. PT. 2 67-12 M03-81792
THE BOWING OF THE METAL SURFACE IN ALUMINIUM ELECTROLYSIS FURNACES 67-12 M03-81967
POWER FOR ALUMINIUM PRODUCTION--MODERNIZATION OF A RECTIFIER INSTALLATION IN SPAIN
67-12 M03-82070
REMOVAL OF COBALT FROM ZINC ELECTROLYTES BY EXTRACTION 67-12 M03-82488
PRODUCTION OF RHOMBOHEDRAL BETA BORON
67-12 M03-82538
THE EXTRACTION OF SPECIAL METALS
67-12 M03-83284
HYDROMETALLURGICAL METHOD OF TREATING POWDER WASTE FROM HARD ALLOYS 67-12 M03-83325
APPLICATION OF LIQUID-LIQUID EXTRACTION TO THE TREATMENT OF IRRADIATED COMBUSTIBLES. PT. 2
67-12 M16-81801
SIMULTANEOUS SEPARATION OF THE ELEMENTS RA, PU, U, AM AND CM FROM IRRADIATED THORIUM
67-12 M16-82238

EXTRACTION, AUTOMATION
AUTOMATION IN ZINC SMELTING 67-09 M03-77001

EXTRACTIVE METALLURGY
PRODUCTION OF CESIUM SALTS 67-02 M02-61588
ELECTROLYTIC METHODS FOR PRODUCING TITANIUM AND TITANIUM ALLOYS 67-02 M03-60229
CESIUM EXTRACTIVE METALLURGY--ORE TO METAL. PT. 3
67-02 M03-61587
A HIGH-TEMPERATURE ELECTROWINNING CELL FOR RARE EARTHS 67-02 M03-61589
FOUNDATION OF NATIONAL RESEARCH INSTITUTE FOR METALS, PROCEEDINGS 67-04 M01-67539
SELECTIVE CHLORINATION OF IRON ORES CONTAINING CHROMIUM AND NICKEL BY FLUIDIZED ROASTER
67-04 M02-67553
EXTRACTION METALLURGY 67-06 M02-71407
APPLICATIONS OF PLASMA TECHNOLOGY IN EXTRACTIVE METALLURGY 67-07 M03-73827
ROASTING IN EXTRACTIVE METALLURGY--A THERMODYNAMIC AND KINETIC REVIEW 67-10 M02-79946
COPPER SMELTING AND REFINING FEATURED AT LONDON SYMPOSIUM 67-10 M03-78454

EXTRUDERS
EXTRUSION AT TEMPERATURES APPROACHING 5000 F
67-01 M07-58673
A SIMPLE SUB-PRESS FOR REVERSE COLD EXTRUSION OF METALS 67-02 M08-60228
COLD EXTRUSION OF BILLETS FOR WRIST PINS
67-06 M07-70473
COLD DRAWING OF STEEL PIPE AND TUBING
67-06 M07-72140
RESEARCH ON A BACKWARDS CUP-EXTRUSION PRESS
67-08 M07-76300
PRODUCTION EXPERIMENTS AND MODIFICATIONS TO HANSSON-ROBERTSON EXTRUDER 67-09 M07-76612

EXTRUDERS, MATERIALS
SPECIAL STEELS FOR TOOLING OF HOT EXTRUSION PRESSES
67-05 M20-69189

EXTRUDERS, STRESSES
POWER CONDITIONS IN PRESSING OF SEMIFABRICATES OF AMG6 A1 ALLOY 67-07 M07-73419

EXTRUDERS, SURFACE HARDENING
EMPLOYING THE TENIFER TREATMENT IN PRESSURE DIE CASTING EXTRUSION AND FORGING TOOLS
67-08 M10-75761

EXTRUDERS, WATER COOLING
EXTRUDING ALUMINUM ALLOYS THROUGH A WATER-COOLED DIE 67-01 M07-57242

EXTRUSION
SEE ALSO BACKWARD EXTRUSION
COEXTRUSION
COLD EXTRUSION
FORWARD EXTRUSION
HYDROSTATIC EXTRUSION
IMPACT EXTRUSION
METAL EXTRUSION
SEJOURNET PROCESS
ANNALYTICAL DETERMINATION OF STRAIN FORCES IN TUBE EXTRUSION 67-01 M07-57316
MOLYBDENUM DIES FOR THE EXTRUSION OF STEEL SHAPES
67-01 M07-57917
PRODUCTION OF THIN-WALLED TUBES OF RECTANGULAR SECTION DIRECTLY FROM THE MELT
67-01 M07-58199
FABRICATION OF TUNGSTEN AND TUNGSTEN-25 PER CENT-RHENIUM TUBING 67-01 M07-58584
EXTRUSION AT TEMPERATURES APPROACHING 5000 F
67-01 M07-58673
BERYLLIUM INGOT WIRE 67-02 M07-59010
STAINLESS STEEL EXTRUSION ELIMINATES THERMAL DISTORTION AND CRACKING 67-02 M07-59200
BASIS OF DIFFERENTIATED EXTRUSION
67-02 M07-59402
TOOL FOR TUBE EXTRUSION 67-02 M07-59679
EXTRUSION OF STEEL-COPPER BIMETAL TUBES
67-02 M07-59698
EFFECT OF TOOL GEOMETRY ON EXTRUSION PRESSURE IN SIDE-EXTRUSION 67-02 M07-61000
THE EXTRUSION OF COPPER AND ALLOYS FOR TUBE

MANUFACTURE 67-02 M07-61652
HIGH PRESSURE FORMING 67-02 M08-59149
STAMPING FORGINGS OF AUTOMOBILE VALVES OF EI992 STEEL 67-02 M08-59403
TRANSVERSE EXTRUSION. PT. 2. 67-02 M08-60000
FUNDAMENTAL COMPUTATIONS FOR THE DEFORMATION REACTIONS THAT OCCUR IN EXTRUSION WITH A PNEUMATIC MECHANICAL HIGH-SPEED EXTRUSION PRESS 67-02 M08-60224
SOME CHARACTERISTICS OF BILATERAL HOT EXTRUSION 67-02 M08-60676
A PYROMETER FOR THE CONTINUOUS MEASUREMENT OF THE TEMPERATURE OF ALUMINIUM EXTRUSIONS 67-02 M08-61293
THE EFFECT OF TEMPERATURE AND DEGREE OF WORKING ON THE STRUCTURE OF HOT ROLLED AND EXTRUDED ALUMINUM 67-02 M13-59127
HOT EXTRUSION OF CAST IRON 67-03 M07-65308
STEEL WORKING PROCESSES. PRINCIPLES AND PRACTICE OF FORGING, ROLLING, PRESSING AND OTHER METHODS OF METAL FORMING 67-03 M08-65829
EXTRUSION OF ELECTROLYTIC GRADE CR BERYLLIUM 67-04 M08-67888
BASIC OPENHEARTH STEEL OF IMPROVED MECHANICAL PROPERTIES FOR EXTRUSION OF DYNAMICALLY LOADED AUTOMOBILE PARTS 67-04 M17-67438
A NEW LUBRICANT AND PROTECTIVE AGENT FOR USE ON STEEL ROD AND TUBE EXTRUSION PRESSES 67-05 M07-69432
TEXTURES OF EXTRUDED BAR AND TUBE AND DRAWN WIRE OF BE 67-05 M13-68570
VALVES AND THEIR MANUFACTURE 67-05 M20-68912
NEW ELECTRIC ARC FURNACE INITIATES SEMI-CONTINUOUS CASTING, EXTRUDING AND DRAWING OF COPPER TUBING AT HALSTEADS WYNNE PLANT 67-06 M03-71317
DEVELOPMENT AND STATUS OF THE APPLICATION OF THE EXTRUSION PROCESS TO STEEL 67-06 M07-70452
HOT EXTRUSION AND DIE FORGING 67-06 M07-71207
THE GRADATION OF DEFORMATION IN EXTRUDING CABLE SHEATHS AND ITS EFFECT ON EXTRUSION FORCES 67-06 M07-72126
TOOL FOR PRESSING PIPES 67-06 M08-70148
SOME METHODS OF MOLDING AND SINTERING CARBIDES 67-06 M09-70778
MEASUREMENT OF DEFORMATION CONDITIONS DURING EXTRUSION 67-07 M03-74157
ABNORMALITITES IN THE LEADING END OF EXTRUDED STEEL TUBE. PT. 1. RESULTS OF RING TESTS ON 18-8 STAINLESS TUBE 67-07 M07-72439
EFFECT OF DIE GEOMETRY ON METAL FLOW IN THE HOT EXTRUSION OF METALS 67-07 M07-72553
EXTRUDING AT HIGH TEMPERATURES 67-07 M07-72622
MECHANICS OF PROCESSING 67-07 M07-72747
POWER CONDITIONS IN PRESSING OF SEMIFABRICATES OF AMG6 A1 ALLOY 67-07 M07-73419
CALCULATION OF FORCE AND DEFORMATION IN PRESSING SHAPED PROFILES 67-07 M07-73948
SINGLE EXTRUSION SERVES MANY NEEDS 67-07 M07-73963
THE USE OF TEMPERATURE-RESISTANT NI-CR ALLOYS IN EXTRUSION DIES FOR THE EXTRUSION OF STEEL 67-07 M07-74109
NEW TECHNIQUES FOR MAKING HIGH TEMPERATURE RESISTANT COMPOSITE MATERIALS 67-07 M09-73364
THE EXTRUSION OF METAL POWDERS 67-07 M09-73867
HOT-EXTRUDED CHROMIUM COMPOSITE POWDER 67-07 M09-73868
NEW METHODS FOR THE CONSOLIDATION OF METAL POWDERS. V 1. PERSPECTIVES IN POWDER METALLURGY 67-07 M09-73873
DESIGN FACTORS FOR EXTRUSIONS 67-08 M07-74819
EXTRUSION 67-08 M07-74840
CONTRIBUTION TO THE THEORY OF PLASTICITY IN STRIP EXTRUSION 67-08 M07-75106
THE PRODUCTION OF CLAD HOLLOW BODIES BY HOT EXTRUSION 67-08 M07-75108
MANUFACTURING SEAMLESS STEEL TUBES BY COMBINING EXTRUSION AND WARM REDUCTION RESULTING IN MINIMUM CROPPING LOSS 67-08 M07-75514
THE FABRICATION OF SILVER AND SILVER-BASE ALLOYS 67-08 M07-75628
PRESSING METALS WITH INDEPENDENTLY MOVING DIES 67-08 M07-76244
COOLED DIES FOR METAL PRESSING 67-08 M08-76245
THE EFFECT OF THE ENERGY OF INTERNAL DEFECTS IN THE CRYSTAL STRUCTURE AND OF THE SURFACE ENERGY ON THE SHRINKAGE OF SPECIMENS FROM COPPER POWDERS OF DIFFERENT ACTIVITIES 67-08 M09-75465
PRODUCTION OF POWDER COMPOSITE COLLECTOR PLATES FOR A DK-908 ELECTRIC MOTOR 67-08 M09-75469
RAILROAD EQUIPMENT 67-08 M20-74829
MILITARY VEHICLES AND EQUIPMENT 67-08 M20-74832
COMPUTER APPLICATION TO THE VISIOPLASTICITY METHOD 67-09 M07-76463
SOME EXPERIMENTS ON FACTORS AFFECTING THE EXTRUSION OF LEAD AND LEAD ALLOYS IN A CONTINUOUS SCREW EXTRUSION MACHINE 67-09 M07-76604
SOME ASPECTS OF SHEATHING CABLES WITH THE HANSSON-ROBERTSON NO. 3 CONTINUOUS EXTRUSION MACHINE 67-09 M07-76610
PROGRESS IN THE CONTINUOUS EXTRUSION FOR LEAD-ALLOYED CABLE SHEATH 67-09 M07-76611
PRODUCTION EXPERIMENTS AND MODIFICATIONS TO HANSSON-ROBERTSON EXTRUDER 67-09 M07-76612
DESIGN FACTORS FOR ALUMINUM EXTRUSIONS 67-09 M07-77182
UNALLOYED TUNGSTEN--ARC-CAST MATERIAL 67-09 M07-77326
STRUCTURES OF URANIUM EXTRUDED HIGH IN THE ALPHA PHASE 67-09 M07-77465
EXTRUDING INSTALLATIONS FOR THE PRODUCTION OF SEAMLESS STEEL TUBES 67-09 M07-77942
EXPERIMENTS AND EFFICIENCY CONSIDERATIONS IN HIGH-RATE FORMING 67-09 M08-77510
CHARACTERISTICS OF EXTRUDING AND SINTERING REDUCED COPPER POWDERS 67-09 M09-76566
HOT EXTRUSION OF METAL POWDERS 67-09 M09-77056
A NUMERICAL ANALYSIS OF TEMPERATURE DISTRIBUTION IN EXTRUSION 67-10 M07-78448
PRESSING OF ALUMINUM ALLOY TUBES WITH APPLICATION OF A SHIFTABLE MANDREL 67-10 M07-79042
EXTRUSION OF NICKEL WITH HIGH-PRESSURE LIQUID 67-10 M07-79044
INFLUENCE OF FRICTION AND THE BEVEL ANGLE OF A DIE ON PRESSING OF TITANIUM 67-10 M07-79047
THE ROLE OF LUBRICANTS IN THE HOT EXTRUSION OF STEELS 67-10 M07-79725
COLD FORMING STAINLESS AND SUPERALLOYS 67-10 M07-79758
THE HISTORICAL DEVELOPMENT OF THE EXTRUSION METHOD 67-10 M07-79973
DEVELOPMENTS IN THE FORMING OF METALS 67-10 M08-79307
INVESTIGATION OF THE EXTRUDABILITY AND GRAIN COARSENING SUSCEPTIBILITY OF ALMGSI1 ALLOYS 67-10 M08-79383
PROBLEMS IN THE EXTRUSION OF STRUCTURAL BERYLLIUM SHAPES 67-10 M08-79535
FORCE ANALYSIS IN COMPRESSION AND EXTRUSION USING THE UPPER BOUND SOLUTION 67-10 M08-79785
INVESTIGATION OF STRUCTURAL AND MECHANICAL PROPERTIES OF PLASTICIZERS 67-10 M09-79340
EXTRUSION OF ALUMINUM POWDER COMPACTS 67-10 M09-79981
DEFORMATION RESISTANCE OF AMG6 ALUMINUM ALLOY DURING PRESSING 67-10 M17-79043
NICKEL- AND COBALT-BASE ALLOYS 67-11 M01-80530
CLOSED-DIE FORGING IN SCOTLAND. PT. 2 67-11 M07-80420
METALWORKING 67-11 M07-80531
INFLUENCE OF BILLET GEOMETRY ON WALL THICKNESS VARIATION IN EXTRUDED TUBES 67-11 M07-80756
RHEOLOGICAL STUDIES OF PLASTICIZED POWDER CHARGE. PT. 3. LAWS OF EXTRUSION OF PLASTICIZED POWDER CHARGE 67-11 M09-80892
STRAIN-HARDENING AND STRAIN-RATE EFFECTS IN PLASTIC FLOW THROUGH CONICAL CONVERGING DIES 67-11 M17-81025
HIGH-OUTPUT, LOW-MANPOWER CONTINUOUS CASTING OF BRASS EXTRUSION BILLETS 67-12 M06-83170
SHAPING OF METALS BY EXTRUSION 67-12 M07-82044
THE USE OF HIGH TEMPERATURE THERMOMECHANICAL TREATMENT IN THE MANUFACTURE OF EXTRUDED TUBES OF TITANIUM ALLOY VT 15 67-12 M07-82414
EXPERIENCE IN THE COLD EXTRUSION OF ALUMINUM-ALLOY BLANKS 67-12 M07-83099
APPLICATION OF HOT PRESSING FOR MANUFACTURE OF ROUND PROFILES FROM HARD ALLOYS 67-12 M08-81794
DETERMINING FORCES IN COLD DIRECT EXTRUSION, REDUCTION AND SIZING OF CONTINUOUS AND HOLLOW PIECES 67-12 M08-82061
TEMPERATURE CONDITIONS OF THE STAMPING TOOL IN FLUID STAMPING 67-12 M08-82064

PREDICTION OF GRAIN DISTORTION AND DEFORMATION ENERGY IN METAL FORMING PROBLEMS BY THE USE OF POTENTIAL THEORY 67-12 M08-82778
VACUUM PRESSING OF HEAT RESISTANT METALS 67-12 M08-83024
STRUCTURE AND MECHANICAL PROPERTIES OF LOW-PER CENT FE DISPERSION-STRENGTHENED AL-FEAL3 ALLOYS FOR NUCLEAR APPLICATIONS 67-12 M09-82807

EXTRUSION, ALLOYING EFFECTS
RESISTANCE TO EXTRUSION OF AUSTENITIC STEELS FOR SUPERHEATER TUBES 67-08 M07-76164

EXTRUSION, AUTOMATION
EXPERIMENTAL DETERMINATION OF CONTACT STRESSES IN PRESSING 67-07 M07-73949
NEW PRESS EXTRUDES BIG, CLOSE TOLERANCE SHAPES FOR OIL, CHEMICAL, POWER INDUSTRIES 67-08 M07-74731

EXTRUSION, DIES
USE OF ZIRCONIUM OXIDE CERAMIC DIE NIBS FOR HOT EXTRUSION OF METALS 67-06 M07-71321

EXTRUSION, IMPURITY EFFECTS
THE INTERACTION OF GRAPHITE WITH POWDERS OF VARIOUS ELEMENTS DURING EXTRUSION 67-08 M09-75452

EXTRUSION, POWDER METALLURGY
RHEOLOGICAL PROPERTIES OF PLASTICIZED POWDER METAL CHARGE. PT. 3. CHARACTERISTICS OF EXTRUSION OF POWDER CHARGE 67-07 M09-72506
PROPERTIES OF A PLASTICIZED POWDER CHARGE AND LAWS OF ITS EXTRUSION 67-08 M09-74903

EXTRUSION, QUALITY CONTROL
CONTROL OF PRODUCT QUALITY IN THE WROUGHT ALUMINUM INDUSTRY 67-07 M19-74009

EXTRUSION BILLETS
SPECIAL-PURPOSE TURNING MACHINE FOR TURNING BLANKS IN TUBE PRODUCTION 67-07 M07-72434

EXTRUSION BILLETS, CASTING
ECONOMICAL PRODUCTION OF COPPER TUBE 67-10 M03-79494

EXTRUSION BILLETS, METAL WORKING
COUNTER-PIERCING OF BILLETS DURING DEFORMATION IN DOUBLE-SLOT DIES 67-09 M07-77363

EXTRUSION CASTING
SEE PRESSURE CASTING

EXTRUSION COATING
THE PVC COATING OF FERROUS WIRES 67-11 M12-80541

EXTRUSION COMPACTING
SEE COMPACTING EXTRUSION

EXTRUSION PRESSES
SEE EXTRUDERS

EXTRUSION PRESSING
SEE EXTRUSION PRESSING

EXTRUSIONS
ON THE FRACTURE OF LOW-PLASTICITY MATERIALS DURING PRESSING 67-04 M07-67044
THE EXTRUSION OF BERYLLIUM MILL SHAPES 67-04 M07-67882
PROGRESS IN IMPACT EXTRUSION 67-04 M08-66408
DETERMINING THE HIGHEST DEGREE OF DEFORMATION DURING REDUCTION OF HOLLOW CYLINDRICAL BILLETS IN A TAPERED DIE 67-04 M08-67040
THE ALUMINIUM EXTRUDED SECTION AND ITS USE AS A STRUCTURAL ELEMENT 67-04 M20-66606
HAVE YOU CONSIDERED CUT-OFF EXTRUSIONS 67-04 M20-68135

EXTRUSIONS, COATING
NEW WAY TO COAT EXTRUSIONS--PLATE THEM WITH PAINT 67-01 M12-57927
LONG ALUMINUM EXTRUSIONS COATED IN VERTICAL FINISHING SYSTEM AT ELECTRO FINISH PLANT 67-01 M12-58452
ELECTROCOATING ALUMINUM EXTRUSIONS 67-03 M12-65486
ANODIZING OF ROLLED AND EXTRUDED AL AND AL ALLOY SEMIFINISHED PRODUCTS 67-04 M12-67727
ARCHITECTURAL ANODIZING 67-05 M12-68800
ORGANIC COATING OF ALUMINUM EXTRUSIONS 67-10 M12-78462
ELECTROCOATING OF EXTRUSIONS PROVIDES AN EVEN FINISH 67-10 M12-78463
ELECTROCOATING ALUMINUM EXTRUSIONS 67-12 M12-81934

EXTRUSIONS, HEAT TREATMENT
HEAT TREATING-P/M PARTS AND EXTRUSIONS 67-07 M10-73962

EXTRUSIONS, MACHINING
THE CHIP-FORMING FINISHING OF COLD DEFORMED WORKPIECES 67-06 M08-71208
MILLING TITANIUM EXTRUSIONS 67-06 M08-71488
MILLING TITANIUM EXTRUSIONS 67-09 M08-78274

EXTRUSIONS, MECHANICAL PROPERTIES
MECHANICAL PROPERTIES AND STRUCTURE OF COLD-EXTRUDED, ALUMINUM-ALLOY TUBE AND ROD 67-04 M17-67533
EFFECTS OF THE HEATING CONDITIONS BEFORE QUENCHING AND THE DEGREE OF COLD DEFORMATION AFTER QUENCHING ON THE MECHANICAL PROPERTIES AND STRUCTURE OF EXTRUDED VAD23 ALLOY SECTIONS 67-06 M17-70352
MEDIUM-STRENGTH, HIGH-EXTRUSION AL-ZN-MG ALLOYS 67-06 M20-71711
STUDIES ON THE MECHANICAL PROPERTIES OF HOT EXTRUDED BERYLLIUM AT ELEVATED TEMPERATURES 67-07 M17-72984
TECHNIQUES FOR THE PRODUCTION OF CHROMIUM STEEL AND NICHROME, HARDENED BY FINE REFRACTORY OXIDES 67-08 M09-75461
THE STRUCTURE AND PROPERTIES OF DISPERSION HARDENED LEAD 67-09 M09-76601
MECHANICAL CHARACTERISTICS OF EXTRUDED SILVER-GRAPHITE COMPOUND MATERIALS 67-10 M17-79081
EFFECT OF HYDROEXTRUSION ON THE MECHANICAL PROPERTIES OF MOLYBDENUM 67-10 M17-79222
EFFECT OF HYDROSTATIC EXTRUSION ON THE MECHANICAL PROPERTIES OF CUZN AND TINI 67-11 M17-81529
APPLICATION OF HOT PRESSING FOR MANUFACTURE OF ROUND PROFILES FROM HARD ALLOYS 67-12 M08-81794

EXTRUSIONS, METAL WORKING
TOOLING FOR ACCURATE EXTRUSION BENDING 67-07 M07-72797
CONTINUOUS SHOT PEENING CATERS FOR VARYING SECTIONS 67-09 M17-76557

EXTRUSIONS, MICROSTRUCTURE
A TRANSIENT EFFECT IN GRAIN-BOUNDARY MIGRATION DURING RECRYSTALLIZATION IN ALUMINUM 67-06 M14-71955

EXTRUSIONS, PACKAGING
ECONOMIC AND TECHNICAL ASPECTS OF THE PACKAGING OF ALUMINUM EXTRUSIONS 67-06 M19-71838

EXTRUSIONS, SURFACE FINISHING
MECHANICAL FINISHING OF ALUMINUM SURFACES 67-06 M12-71381

FABRICABILITY
CHARACTERISTICS OF BE-38 PER CENT AL SHEET 67-03 M01-65289

FABRICATION
DEVELOPMENTS IN THE PRODUCTION AND FABRICATION OF NON-FERROUS METALS 67-01 M01-58499
SPECIAL FABRICATION TECHNIQUES 67-06 M01-70093
THE FABRICATION OF GUNN EFFECT DEVICES 67-07 M16-72924

FACE CENTERED CUBIC LATTICE
FRICTIONAL WEAR IN FCC METAL SINGLE CRYSTALS 67-02 M14-60142
STRUCTURE OF VERY THIN TANTALUM AND MOLYBDENUM FILMS 67-02 M14-61826
X-RAY INVESTIGATION OF CUBIC TUNGSTEN CARBIDES IN SPARK MACHINED CERMETS AND CEMENTED TUNGSTEN CARBIDES 67-08 M14-74936
THE WIDTHS OF GLISSILE EXTENDED DISLOCATIONS IN ANISOTROPIC FACE-CENTERED CUBIC CRYSTALS 67-09 M13-76588
INTERSECTING STACKING FAULTS IN FACE-CENTERED CUBIC LATTICES 67-09 M13-77924
STRUCTURE AND THERMAL EXPANSION OF SMALL COBALT PARTICLES 67-10 M13-79245
EPITAXIAL GROWTH OF IRON ON TUNGSTEN FIELD EMISSION POINTS 67-10 M14-79573
DISLOCATIONS AND ELECTRONS IN METALS 67-10 M16-78312
MARTENSITE-TO-FCC REVERSE TRANSFORMATION IN AN FE-NI ALLOY 67-11 M14-81341
STEEL AND TEMPERATURE 67-11 M15-81538
X-RAY K ABSORPTION EDGES OF ALLOYS. PT. 1. CORRELATION TO BAND MODELS 67-11 M16-80118
ULTRASONIC WORK HARDENING OF FACE CENTERED CUBIC METALS AND ALLOYS 67-11 M17-80379
A NEW COMPLEX BORIDE COMPOUND --FE, NI--23B6 67-12 M13-82140
THE COMPOSITIONS, AG8MX6, WHERE M EQUALS SI, GE, SN AND X EQUALS S, SE, TE 67-12 M13-82514
CRYSTALLOGRAPHY OF THE FCC TO BCC MARTENSITIC

FACE CENTERED CUBIC LATTICE
TRANSFORMATION IN AN IRON-PLATINUM ALLOY 67-12 M14-82865
DEFORMATION CHARACTERISTICS OF POLYCRYSTALLINE THORIUM FROM 78 TO 473 K 67-12 M17-82560
FACE CENTERED CUBIC LATTICE, ATOMIC PROPERTIES
SURFACE DISTORTION IN FACE-CENTERED CUBIC SOLIDS 67-08 M16-75383
FACE CENTERED CUBIC LATTICE, CORROSION
MECHANISM OF STRESS CORROSION CRACKING OF FACE CENTERED CUBIC ALLOYS 67-08 M18-74409
FACE CENTERED CUBIC LATTICE, CRYOGENIC PROPERTIES
CAST STAINLESS ON TARGET FOR MOON SHOT 67-04 M15-67073
FACE CENTERED CUBIC LATTICE, CRYSTAL GROWTH
EPITAXIAL GROWTH OF FACE CENTERED CUBIC METALS ON ALKALIHALIDE CRYSTALS CLEAVED IN VACUUM 67-08 M14-74413
FACE CENTERED CUBIC LATTICE, CRYSTAL LATTICES
DEVELOPMENT OF AN AXIAL TEXTURE IN METALS WITH AN FCC LATTICE 67-02 M13-61674
FAULTED DEFECTS AND STACKING-FAULT ENERGY 67-06 M13-71534
FACE CENTERED CUBIC LATTICE, CRYSTALLIZATION
TWINNING PROCESSES IN THE ELECTROCRYSTALLIZATION OF FACE-CENTERED CUBIC METALS 67-07 M14-72952
FACE CENTERED CUBIC LATTICE, DEFECTS
STACKING FAULTS IN FCC METALS AND ALLOYS 67-02 M13-61932
STACKING FAULT ENERGY OF FACE CENTERED CUBIC METALS ESTIMATED BY ELECTRON MICROSCOPIC ANALYSIS OF DIFFRACTION CONTRAST OF FAULTED DIPOLES 67-03 M13-65216
MEASUREMENTS OF THE ANISOTROPY OF THE DISLOCATION RESISTIVITY IN AU, AG, AND CU 67-03 M13-65217
STACKING FAULT DIPOLES IN FACE-CENTERED CUBIC METAL 67-03 M13-65376
FACE CENTERED CUBIC LATTICE, DIFFUSION
KINETICS OF SOLUTE-ENHANCED DIFFUSION IN DILUTE FACE-CENTERED-CUBIC ALLOYS 67-06 M14-69910
DIFFUSION AND THE KIRKENDALL SHIFT IN BINARY ALLOYS 67-07 M14-73916
SURFACE DIFFUSION IN BCC AND FCC METALS 67-09 M14-76367
FACE CENTERED CUBIC LATTICE, ELECTRON DIFFRACTION
THE DEVELOPMENT OF THE FACE-CENTERED CUBIC INTERFERENCE FUNCTIONS AS CRYSTALS GROW 67-06 M14-70898
FACE CENTERED CUBIC LATTICE, MAGNETIC PROPERTIES
THE EFFECT OF SUBLATTICE ORDER IN BINARY ALLOYS WITH ONE MAGNETIC COMPONENT. PT. 3 67-06 M15-71286
FACE CENTERED CUBIC LATTICE, MECHANICAL PROPERTIES
STRUCTURE AND HIGH-STRENGTH METALS 67-03 M17-65329
MECHANICAL PROPERTIES OF HIGH-PURITY METALS 67-04 M17-67818
AN EXPERIMENTAL STUDY OF THE DOUBLE SLIP DEFORMATION HYPOTHESIS FOR FACE-CENTERED CUBIC SINGLE CRYSTALS 67-06 M17-71276
LATTICE STRAIN MEASUREMENTS ON DEFORMED FCC METALS 67-06 M17-71425
THE MECHANISM OF WORK HARDENING IN FCC METALS 67-07 M17-73065
STAGE 2 WORK HARDENING IN CRYSTALS 67-07 M17-73066
DIFFUSIONAL STRESS RELAXATION IN POLYMORPHOUS TRANSFORMATION 67-08 M17-74638
EFFECT OF ANISOTROPY ON THE PROPERTIES AND BEHAVIOR OF METALS WITH FACE-CENTERED CUBIC LATTICE 67-11 M17-81164
FATIGUE PROPERTIES OF PURE METALS 67-12 M17-83488
FACE CENTERED CUBIC LATTICE, METAL WORKING
MATERIAL ASPECTS OF HIGH ENERGY RATE DEFORMATION AT AMBIENT AND ELEVATED TEMPERATURES 67-05 M17-69743
FACE CENTERED CUBIC LATTICE, MICROSTRUCTURE
PROPAGATION OF STACKING FAULTS IN WORK HARDENED FACE CENTERED CUBIC METALS 67-02 M13-60214
ON THE INTERPRETATION OF ANNEALING TEXTURES OF WIRES OF FCC METALS AND ALLOYS 67-02 M14-61897
THE EFFECT OF THE DEGREE OF PURITY ON SOME PROPERTIES OF HIGH-MELTING MATERIALS 67-05 M14-68580
FACE CENTERED CUBIC LATTICE, PHASES /STATE OF MATTER/
BONDING AS INTERPRETED BY SPATIAL CORRELATION OF ELECTRONS 67-07 M14-73666
FACE CENTERED CUBIC LATTICE, PHYSICAL PROPERTIES
ON THE THEORY OF ANISOTROPY OF CRYSTALLINE SURFACE TENSION 67-07 M15-73639
THE INFLUENCE OF THE OXYGEN ADSORPTION ON THE SURFACE ENERGY OF FCC NICKEL AND BCC SILICON IRON 67-07 M15-73927
FACE CENTERED CUBIC LATTICE, RADIATION EFFECTS
THE CONVERSION-TWO-INTERSTITIAL MODEL FOR RADIATION DAMAGE IN FCC METALS 67-05 M14-69373
RECOVERY OF DEFECTS IN NEUTRON-IRRADIATED TUNGSTEN 67-07 M14-73382
FACE CENTERED CUBIC LATTICE, SINGLE CRYSTALS
A RAPID GRAPHICAL SINGLE-SURFACE ORIENTATION TECHNIQUE FOR FACE-CENTERED METALS 67-01 M13-57411
FACE CENTERED CUBIC LATTICE, STACKING FAULTS
THE MEASUREMENT OF STACKING FAULT ENERGY 67-05 M13-69454
ENERGIES OF STACKING FAULTS AND TWINS FOR NORMAL METALS 67-05 M13-69460
FACE CENTERED CUBIC LATTICE, STRESS EFFECTS
ORIENTATION CHANGES OF SINGLE CRYSTALS OF FACE CENTERED CUBIC METALS ON WIRE DRAWING. PT. 3. DISCUSSION OF THE RESULTS 67-05 M14-69849
FACE CENTERED CUBIC LATTICE, SURFACE PROPERTIES
ON THE THEORY OF ANISOTROPY OF CRYSTALLINE SURFACE TENSION 67-07 M15-73639
FACE CENTERED CUBIC LATTICE, THERMODYNAMICS
QUASI-THERMODYNAMIC CALCULATION OF VACANCIES IN FCC METALS 67-01 M15-57418
ENTROPY, LATTICE PARAMETERS AND HIGH-TEMPERATURE PHENOMENA OF METALS 67-06 M13-71074
FACE CENTERED CUBIC LATTICE, THIN FILMS
FACE-CENTERED-CUBIC TUNGSTEN FILMS 67-04 M14-68073
FACE CENTERED CUBIC LATTICE, X RAY ANALYSIS
STUDY OF STACKING FAULTS IN FACE CENTERED CUBIC NICKEL ALLOYS 67-05 M13-69455
FACE CENTERED CUBIC LATTICE, X RAY DIFFRACTION
TWINNING AND SOME ASSOCIATED DIFFRACTION EFFECTS IN CUBIC AND HEXAGONAL METALS. PT. 1. SELECTION RULES FOR TWINNING IN FCC, BCC AND HCP LATTICES 67-06 M13-71610
TWINNING AND SOME ASSOCIATED DIFFRACTION EFFECTS IN CUBIC AND HEXAGONAL METALS. PT. 2. DOUBLE DIFFRACTION 67-06 M13-71611
FACE CENTERED ORTHORHOMBIC LATTICE
SEE ORTHORHOMBIC LATTICE
FACE CENTERED TETRAGONAL LATTICE
SEE TETRAGONAL LATTICE
FACE MILLING
HOW TO DETERMINE CUTTER GEOMETRIES FOR OPTIMUM PERFORMANCE. PT. 2 67-05 M08-69591
PRECISION FINISHING OF FERRITE AND CERAMIC MAGNETIC COMPONENTS 67-07 M08-73830
MILLING TITANIUM AT HIGH SPEED WITH ROTATING CARBIDE INSERTS 67-09 M08-77742
LARGE CAPACITY UNIVERSAL GRINDING MACHINE 67-11 M08-80350
FACING /SURFACING/
SEE SURFACING
FAILURE
THE ROLE OF NON-METALLIC INCLUSIONS IN THE FAILURE OF CAST STEEL 67-02 M17-61912
FAILURE ANALYSIS OF A GASEOUS HYDROGEN HEAT EXCHANGER-LIQUID METAL EMBRITTLEMENT 67-03 M17-65933
FAILURE ANALYSIS OF HIGH STRENGTH STAINLESS STEELS IN SPACE LAUNCH VEHICLES 67-04 M17-66688
THE EFFECT OF GRAIN BOUNDARY PENETRATION ON THE DELAYED FAILURE OF CU-2 PER CENT BE 67-04 M17-66921
AVOID CONFUSION OF ELECTRODES 67-06 M11-71577
BRITTLE FRACTURES IN SERVICE 67-06 M17-70561
BRITTLE FAILURE OF A STEEL SCAFFOLD TUBE 67-08 M17-74506
INVESTIGATION OF THE CAUSES OF FAILURE AND METHODS FOR IMPROVING THE STABILITY OF HOT STAMPING DIES 67-12 M17-81797
FAILURE, STRESS EFFECTS
LONG-TERM STRENGTH IN CONDITIONS OF STRESS RELAXATION 67-05 M17-69613
FAILURE OF NON-MAGNETIC ROTOR BANDING WIRE FROM STRESS-CORROSION 67-08 M17-74507
FANS, MECHANICAL PROPERTIES
FAILURE OF A 3000-HP MINE FAN 67-06 M17-71888
FAILURE OF A FAN ROTOR 67-08 M17-75534
FARADAY EFFECT
ELECTRON EFFECTIVE MASS IN GALLIUM ARSENIDE AS A

FUNCTION OF DOPING 67-04 M16-66755
THE INFRARED FARADAY EFFECT IN P-TYPE SEMICONDUCTORS 67-06 M16-72088
MEASUREMENT OF THE SPECIFIC MAGNETIC SUSCEPTIBILITY OF OS BETWEEN 80 AND 1850 K. BY AN IMPROVED FARADAY METHOD 67-08 M15-75645
MICROWAVE FARADAY ROTATION IN SEMICONDUCTOR PLASMAS IN THE HIGH MAGNETIC FIELD LIMIT 67-10 M16-79365

FASTENERS
SEE ALSO ANCHORS
BOLTS
CAP SCREWS
NAILS
NUTS /FASTENERS/
PINS
RIVETS
SCREWS
STRUCTURAL BOLTS
STUDS
TAPPING SCREWS
TOOL STEEL SOCKET SCREWS KEEP HOT WORK DIES ON LINE 67-06 M20-70682
RIVETING AND OTHER MECHANICAL FASTENING 67-08 M20-74848
COLD FORMING BY SWAGING 67-12 M08-83132
STAINLESS STEEL WIRE--WHERE IT IS TODAY 67-12 M20-82277
APPLICATION FOR BRIGHT STAINLESS STEELS 67-12 M20-83300

FASTENERS, COATING
CADMIUM PLATING IN A HYDROFLUOROBORIC ELECTROLYTE 67-07 M12-72874
HOW ELECTROPLATING AFFECTS DIMENSIONS OF FASTENERS 67-08 M12-74493
THE DEVELOPMENT AND TESTING OF A NEW CR PLATING PROCESS --GASINCHROMING-- USING GAS, FOR CONSTRUCTION PARTS AND SMALL CONNECTING ELEMENTS 67-11 M12-80101

FASTENERS, COATINGS
METAL FASTENERS IN ULTRA-HIGH TEMPERATURES 67-05 M20-69556

FASTENERS, CORROSION
AIRCRAFT EXFOLIATION CORROSION--METHODS FOR PREVENTION IN FASTENER HOLES 67-05 M18-68797
CONTROL OF CORROSION AT MECHANICAL JOINTS 67-08 M18-74706

FASTENERS, HEAT TREATMENT
CONTINUOUS HEAT TREATING PROCESS HANDLES MILLIONS OF FASTENERS PER MONTH 67-12 M10-81993

FASTENERS, MATERIALS
DESIGNERS GUIDE TO THE SELECTION OF FASTENER MATERIALS--DATA SHEET 67-05 M20-69495
STAINLESS STEELS 67-09 M08-77819

FASTENERS, MECHANICAL PROPERTIES
FATIGUE STUDIES OF MARINE THREAD JOINTS 67-02 M17-59704
STAINLESS STEEL SCREWS--THE SOLUTION TO FASTENING PROBLEMS IN MANY INDUSTRIES 67-05 M01-68483
PERFORMANCE OF NUTS ON HIGH STRENGTH BOLTS 67-08 M17-74795
FATIGUE PROPERTIES OF TITANIUM ALLOY FASTENERS 67-10 M17-78851
BORON STEELS FOR FASTENERS 67-12 M20-81969

FASTENERS, METAL WORKING
ADVANTAGES OF WARM FORMING 67-11 M07-81693
BOLT PRODUCTION METHODS 67-12 M07-82833
THE EFFECT OF CERTAIN METALLURGICAL AND MECHANICAL FACTORS ON METAL FLOW DURING COLD NUT FORMING 67-12 M08-82275
FASTENERS MADE STRONGER VIA VACUUM PROCESSING 67-12 M08-82400
PREPARATION OF IRON AND STEEL WIRE FOR THE PRODUCTION OF SCREWS, NUTS AND FORMED COMPONENTS 67-12 M12-82443

FASTENERS, ROLLING
COMBINED ROLLING AND CALIBRATION OF LARGE-GAGE THREADS 67-12 M07-81795

FASTENERS, SPECIFICATIONS
BIG CHANGES COME TO FASTENERS 67-08 M07-74358

FASTENERS, STANDARDS
IMPROVEMENTS COMING FOR TAPPING SCREWS 67-08 M19-76099

FASTENERS, STRUCTURAL MATERIALS
HOW TO FORM AND FABRICATE PRECOATED METALS. PT. 2 67-10 M01-79197
ZERO DEFECTS DOWN TO THE WIRE 67-10 M07-78570
FUNDAMENTALS OF FORMING 67-10 M08-78557

FASTENERS, WELDING
DRAWN-ARC CAPACITOR DISCHARGE--A MAJOR NEW PRODUCTION TOOL 67-02 M11-61578
WELD FASTENERS PUSH INTO LIMELIGHT 67-03 M11-65764
WELD FASTENERS FIND GROWING USE IN METALWORKING 67-12 M11-83137

FASTENING
SEE JOINING

FASTENINGS
SEE FASTENERS

FATIGUE /MATERIALS/
SEE ALSO FATIGUE LIFE
FATIGUE LIMIT
FATIGUE STRENGTH
S N DIAGRAMS
STRESS RATIO
THERMAL FATIGUE
TORSIONAL FATIGUE
FATIGUE STRENGTH OF THE COMMERCIAL TI ALLOYS 67-01 M17-57386
X-RAY INVESTIGATION ON FATIGUE OF POLYCRYSTALLINE METALS--THE RELATION BETWEEN CRYSTAL ORIENTATION AND DEFORMATION IN FCC CRYSTAL 67-01 M17-57586
ON THE FATIGUE STRENGTH OF INDUCTION HARDENED LARGE-SIZE PRESS-FITTED SPECIMEN 67-01 M17-57587
THE STUDY OF THERMAL FATIGUE OF BEARING METALS LINING ON STEEL PLATES 67-01 M17-57588
FATIGUE BEHAVIOR OF ALUMINUM AND TITANIUM SHEET MATERIALS DOWN TO MINUS 423 F 67-01 M17-57620
FATIGUE STRENGTH OF 90KHMF STEEL GROUND WITH DIAMOND DISKS 67-01 M17-57669
INCREASE IN THE PERFORMANCE OF STEELS IN MELTS OF FUSIBLE METALS USING METHODS OF STRENGTHENING--TECHNOLOGY 67-01 M17-57670
SHAPE OF THE FATIGUE CURVE OF MILD STEEL 67-01 M17-57691
RESISTANCE OF STEEL TO FATIGUE BREAKDOWN 67-01 M17-58074
THE BEHAVIOR OF SUBMERGED ARC WELDED PIPE WHEN SUBJECTED TO REPETITIVE INTERNAL PRESSURE STRESSES 67-01 M17-58284
RESULTS OF FATIGUE TESTS ON WELDABLE ALUMINIUM ALLOYS 67-01 M17-58297
METALS FATIGUE 67-01 M17-58363
INFLUENCE OF STRUCTURE ON FATIGUE PROPERTIES OF STEEL 67-01 M17-58372
LOW-CYCLE FATIGUE OF STEEL STRUCTURES--AN EXPERIMENTAL INVESTIGATION WITH FULL SCALE SHIP STRUCTURAL COMPONENTS 67-01 M17-58599
HIGH-STRENGTH WELDABLE 13 PER CENT CHROMIUM CASTING STEEL 67-01 M17-58619
THERMAL STRESS AND LOW-CYCLE FATIGUE 67-01 M17-58701
INDUCTION HARDENING OF AUTOMOBILE HALF AXLES 67-02 M10-60849
USE OF LOW ALLOY STEELS IN THE MANUFACTURE OF TOOTHED WHEELS BY MECHANICAL WELDING 67-02 M11-60610
SOME OBSERVATIONS OF PITS NEAR GRAIN BOUNDARIES AND OF GRAIN BOUNDARY MIGRATION DURING FATIGUE IN ZINC POLYCRYSTALS 67-02 M13-59069
FATIGUE UNDER CYCLIC TORSION AND ROTATING BENDING 67-02 M17-58814
RESEARCH ON THE FATIGUE STRENGTH OF PRESS-FITTED SPECIMENS 67-02 M17-58848
FATIGUE PROPERTIES AND STRESS ANALYSIS 67-02 M17-58977
EFFECT OF SURFACES ON MECHANICAL BEHAVIOR OF METALS 67-02 M17-59105
EXPERIMENTAL RESULTS ON ACCUMULATION DAMAGE IN REPEATED LOADING OF ALUMINIUM ALLOY BARS 67-02 M17-59709
PRESENT USE OF HIGH-STRENGTH STEEL FOR BRIDGE AND PENSTOCK STRUCTURES 67-02 M17-59965
THE FATIGUE STRENGTH OF SINTERED MATERIALS 67-02 M17-60507
INVESTIGATION OF CASE HARDENING OF GEARS 67-02 M17-60843
INFLUENCE OF THE CHEMICAL COMPOSITION OF DEOXIDIZER ON THE STRENGTH OF CAST STEEL IN CORROSIVE MEDIUM 67-02 M18-60970
CONSTRUCTION OF LARGE-SIZE SHIPS AND PROBLEMS IN THE USE OF HIGH-STRENGTH STEEL 67-02 M20-59963
CONTRIBUTION TO THE STUDY OF MAGNESIUM, ZIRCONIUM,

BERYLLIUM AND ZINC BEHAVIOR DURING ALTERNATIVE PLASTIC DEFORMATIONS 67-03 M17-65554
MANSON-COFFIN FATIGUE 67-04 M17-66052
A REVIEW OF THE MECHANISMS OF FATIGUE 67-04 M17-66171
INTERNAL FRICTION AND BASIC FATIGUE MECHANISIMS IN BODY-CENTERED CUBIC METALS, MAINLY IRON AND CARBON STEELS 67-04 M17-66227
PROPERTIES OF LOW-ALLOY WELDING STEELS USED TO MANUFACTURE RAILWAY ROLLING STOCK 67-04 M17-67826
FATIGUE RESISTANCE OF THE KHN77TYUR ALLOY AND RESISTANCE TO PROLONGED EXPOSURE TO HIGH TEMPERATURES 67-05 M17-68361
FATIGUE PROPERTIES OF CAST IRON IN RELATION TO GRAPHITE STRUCTURE 67-05 M17-69879
WAYS TO INCREASE THE LIFE OF SPRINGS 67-06 M17-70076
ROOM-TEMPERATURE CREEP AND FATIGUE PROPERTIES OF TITANIUM ALLOYS 67-06 M17-70685
RAPID METHOD OF ESTIMATING ROTATING BENDING FATIGUE LIMITS BY CAPACITANCE THERMOMETER FOR ROTATOR 67-06 M17-70818
INVESTIGATION OF THERMAL FATIGUE IN COMPLEX STRESS CONDITIONS 67-06 M17-70902
FEO INCLUSIONS AND FATIGUE OF STEEL 67-06 M17-71738
SHOT-PEENING AIDS FATIGUE LIFE 67-06 M17-71929
FORMATION OF FATIGUE STRIATIONS IN FCC METALS 67-07 M17-72660
THE RELATION OF HUMIDITY TO THE FATIGUE ENDURANCE OF AN ALUMINIUM ALLOY 67-07 M17-72815
CRACK PROPAGATION IN FATIGUE--SOME EXPERIMENTS WITH DTD 5070A ALUMINIUM ALLOY SHEET 67-07 M17-73084
SURFACE BUBBLE FORMATION DURING FATIGUE OF AN ALUMINUM ALLOY 67-07 M17-73134
HIGH STRENGTH CAST STEEL 67-07 M17-73251
GEARS AND THEIR LUBRICATION 67-07 M17-73691
FRACTURE BEHAVIOUR OF TWO CREEP-RESISTANT MATERIALS SUBJECTED TO CYCLIC LOADING AT ELEVATED TEMPERATURE 67-07 M17-74086
THE FATIGUE PROPERTIES OF SINTERED IRON AND STEEL 67-08 M09-75386
SURFACE QUENCHING IN THE CASE OF BULK INDUCTION HEATING OF ZIL-130 AXLES 67-08 M10-76107
THE EFFECT OF THIN ANODIC OXIDE FILMS ON THE FATIGUE BEHAVIOR OF AN ALUMINUM ALLOY 67-08 M12-75141
STRIATIONS ON COPPER SINGLE CRYSTALS SUBJECTED TO TORSIONAL FATIGUE. PT. 1. A TEST OF THE RELATION OF CROSS SLIP TO FATIGUE STRIATION FORMATION 67-08 M14-75122
A THEORY OF RANDOM FATIGUE 67-08 M17-75781
INFLUENCE OF TREATMENT WITH ROLLERS ON THE MECHANICAL AND TECHNOLOGICAL PROPERTIES OF CASE-HARDENED STEELS 67-08 M17-76002
INFLUENCE OF RESIDUAL STRESSES ON PLASTIC DEFORMATION DURING CYCLIC STRESSING OF MACHINE PARTS 67-08 M17-76003
EFFECT OF MULTIPLE DEFORMATIONS ON THE RESISTANCE OF LOW-CARBON STEEL TO CYCLIC STRESSES 67-08 M17-76005
CHEMICOTHERMAL TREATMENT OF GEARS 67-08 M17-76101
FATIGUE HARDENING OF CU-ZN ALLOYS 67-10 M17-79017
LOW-CARBON 713 LC ALLOY 67-10 M17-79934
INFLUENCE OF THE MANNER OF LOADING --IMPOSED STRESS OR STRAIN-- ON THE EVOLUTION OF THE MECHANICAL PROPERTIES OF METALS DURING FATIGUE 67-10 M17-80017
SAFETY AND STATISTICAL INVESTIGATION OF THE FATIGUE BEHAVIOR OF SPECIMENS WITH SEVERAL CONCURRENT NOTCHES ON ZN-POWDER PRIMED STRIPS WITH WELDED TRANSVERSE REINFORCING STRIPS 67-11 M17-81382
FATIGUE TESTING OF WELDED JOINTS OF ST. 37, WITH AND WITHOUT, PAINTING 67-11 M17-81383
FATIGUE-INDUCED REVERSION AND OVERAGING IN DISPERSION STRENGTHENED ALLOY SYSTEMS 67-12 M10-83484
USE OF THE ENERGY OF CRACK PROPAGATION TO DETERMINE THE TENDENCY OF A METAL TO IRREVERSIBLE DAMAGE DURING CYCLIC LOADING 67-12 M17-82415
THE MECHANISM OF STAGE 1 CRACK PROPAGATION IN FATIGUE 67-12 M17-82725
FATIGUE CRACK NUCLEATION IN A HIGH-STRENGTH LOW-ALLOY STEEL 67-12 M17-82727
THE COFFIN-MANSON LAW IN RELATION TO SLIP CHARACTER 67-12 M17-82735
AN INVESTIGATION OF THE FATIGUE BEHAVIOR OF TUNGSTEN-REINFORCED AND STEEL- REINFORCED SILVER COMPOSITES 67-12 M17-82974
FATIGUE TESTS AND ELASTIC STRESS MEASUREMENTS ON STEEL WIRE AS AFFECTED BY THE RATE OF WORKHARDENING. EXISTENCE OF A CRITICAL WORKHARDENING RANGE 67-12 M17-83338

FATIGUE /MATERIALS/, COMPOSITION EFFECTS
STUDY OF MATERIAL FOR UNLUBRICATED ROLLING PARTS FOR HIGH-TEMPERATURE SERVICE 67-02 M17-61998

FATIGUE /MATERIALS/, CORROSION EFFECTS
FATIGUE OF AN ALUMINUM ALLOY IN ULTRA-HIGH VACUUM AND AIR 67-12 M17-82857

FATIGUE /MATERIALS/, HEATING EFFECTS
EFFECT OF METHOD OF MELTING AND OF HEAT TREATMENT ON THE FATIGUE STRENGTH OF HIGH TENSILE STEEL 67-02 M17-60736
EFFECT OF HEAT TREATMENT ON PROPERTIES OF SHEETS MADE OF ALLOY VD1 67-04 M17-67534
EFFECT OF STRUCTURE AND CHEMICAL COMPOSITION ON THE MECHANICAL PROPERTIES OF HEAT TREATED UNALLOYED STRIP STEELS 67-07 M17-73287
BENDING FATIGUE BEHAVIOR OF UNALLOYED STEELS AS A FUNCTION OF THE TEMPERING AND HARDENING TEMPERATURES, LOW-TEMPERATURE TREATMENT AND SURFACE DECARBURIZATION 67-09 M17-77882
SPECIAL PROPERTIES IMPARTED TO AUSTENITIC STAINLESS STEELS BY BRIGHT ANNEALING 67-10 M10-78324

FATIGUE /MATERIALS/, IMPURITY EFFECTS
FATIGUE OF STEEL IN RELATION TO THE NONMETALLIC INCLUSION CONTENT. PT. 2. RELATIONSHIP BETWEEN FATIGUE OF STEEL AND INCLUSIONS 67-07 M17-72556

FATIGUE /MATERIALS/, STRESS EFFECTS
FATIGUE STUDIES OF SINGLE CRYSTAL BERYLLIUM 67-07 M17-73743

FATIGUE /MATERIALS/, TEMPERATURE EFFECTS
EXPERIMENTAL STUDIES ON FATIGUE MECHANISM IN PURE METALS AT ELEVATED TEMPERATURES 67-08 M17-74428
THE EFFECT OF TEMPERATURE ON THE LOW-CYCLE FATIGUE BEHAVIOR OF UDIMET 700 67-08 M17-75976

FATIGUE /MATERIALS/, WELDING EFFECTS
DIFFUSION BONDING TECHNIQUES CHANGING AEROSPACE INDUSTRY 67-07 M11-73695

FATIGUE CRACKING
SEE FATIGUE FAILURE

FATIGUE FAILURE
TECHNIQUES FOR REMOVING RUST FROM FRACTURES OF STEEL PARTS THAT ARE TO BE EXAMINED BY ELECTRON MICROFRACTOGRAPHY 67-01 M13-58022
THE FAILURE OF COPPER-TUNGSTEN FIBER COMPOSITES IN REPEATED TENSION 67-01 M17-57222
THE EFFECT OF ELECTROCHEMICAL CONDITIONS ON THE FATIGUE STRENGTH OF PLAIN CARBON STEEL 67-01 M17-58339
ULTRASONIC INSPECTION OF RAILWAY AXLES 67-01 M19-58520
ENDURANCE LIMIT UNDER COMBINED ROTATING BENDING AND STATIC TENSION 67-02 M17-58813
CRITERIA FOR ENDURANCE LIMITS OF STEEL 67-02 M17-58815
ENDURANCE LIMITS OF BEAMS OF VARIOUS CROSS-SECTIONS UNDER CYCLIC BENDING 67-02 M17-58816
SOME FEATURES OF THE FRACTURE MECHANISM OF COMMERCIAL IRON DURING FATIGUE TESTS WITHIN WIDE RANGES OF TEMPERATURE 67-02 M17-59705
FAILURE OF MATERIAL UNDER PULSATING CONTACT LOAD 67-02 M17-59707
FISH EYE APPEARING ON THE FATIGUE FRACTURED SURFACE OF BALL BEARING STEEL 67-02 M17-59710
RESEARCH IN THE FIELD OF METAL FATIGUE 67-02 M17-59727

FATIGUE FAILURE
REPORTS ON FATIGUE RUPTURES
REPORTS ON FATIGUE RUPTURES 67-02 M17-59995
HOW IMPORTANT IS THE STRESS RATIO 67-02 M17-60232
HOW LOW CYCLE FATIGUE EMBRITTLES PRESSURE VESSEL STEELS 67-02 M17-60694
FATIGUE CRACK PROPAGATION IN METALS 67-02 M17-60700
STRAINS NEAR CRACKS IN ALUMINIUM PLATES 67-02 M17-60802
FATIGUE CRACK FORMATION IN BICRYSTALS OF LEAD

67-02 M17-60811
INVESTIGATION OF THE DIAGRAM OF FATIGUE FAILURE IN CONNECTION WITH THE EFFECT OF SURFACE-ACTIVE MEDIA 67-02 M17-60976
INFLUENCE OF SYNTHETIC COATINGS OF FATIGUE STRENGTH OF AVT1 ALUMINUM ALLOY TESTED IN AIR ATMOSPHERE 67-02 M17-60979
NEW DATA ON FATIGUE LIFE OF MALLEABLE IRON PARTS 67-03 M17-65024
BUCKLING STRESS BEHAVIOR PIPES UNDER INTERNAL AND/OR EXTERNAL LOADS 67-03 M17-65186
WEAR OF STEEL IN LUBRICATING OIL CONTAINING ABRASIVE PARTICLES 67-03 M17-65198
SOME OBSERVATIONS ON NIOBIUM IN STEEL 67-03 M17-65465
WHAT TO LOOK FOR IN SPRING WIRE 67-03 M17-65978
MECHANICAL PROPERTIES OF SEAMS MADE BY VARIOUS METHODS OF MULTILAYER WELDING 67-04 M11-66438
EQUIBIAXIAL LOW-CYCLE FATIGUE PROPERTIES OF TYPICAL PRESSURE-VESSEL STEELS 67-04 M17-66233
LOW CYCLE FATIGUE CRACK PROPAGATION CHARACTERISTICS OF HIGH STRENGTH STEELS 67-04 M17-66238
FATIGUE STRENGTH OF LOW-ALLOY STEEL WELDED JOINTS 67-04 M17-66565
FORMATION OF A WHITE LAYER IN RAILROAD RAIL HEADS 67-04 M17-66623
THE BASIC VARIETIES OF FAILURE IN MACHINE GEARS 67-04 M17-66631
VARIOUS CONCEPTS OF MICROCRACKS 67-04 M17-66896
ELECTRON MICROSCOPIC AND X-RAY DIFFRACTION ANALYSIS OF 1KH18N9T STEEL FRACTURES 67-04 M17-67373
INFLUENCE OF FATIGUE ON BRITTLE FRACTURE IN MILD STEEL 67-04 M17-67415
WHY GEARS FAIL 67-04 M17-67909
LOW-CYCLE FATIGUE OF STEEL STRUCTURES 67-04 M17-68020
FATIGUE FRACTURES 67-04 M17-68024
TO AVOID FATIGUE FAILURES, PAY ATTENTION TO DETAILS 67-04 M17-68127
ELECTRON FRACTOGRAPHY PINPOINTS CAUSE OF FATIGUE FRACTURE 67-05 M13-68677
FATIGUE CRACK PROPAGATION IN METALS 67-05 M17-68341
CRACK INITIATION IN POLYCRYSTALLINE ALUMINIUM FATIGUED AT LOW STRAIN 67-05 M17-68762
FATIGUE CRACK PROPAGATION IN METALS 67-05 M17-68772
CONDITIONS LEADING TO FAILURE OF CAST IRON BRAKES 67-05 M17-69141
SOME INTERESTING CASES OF FAILURES OF METALS IN SERVICE 67-06 M17-70046
FATIGUE FAILURE ANALYSIS AND PREVENTION 67-06 M17-70125
THE RELATION BETWEEN YIELD AND FATIGUE FRACTURE OF MILD STEEL 67-06 M17-70628
THE SLIDING PROCESS AS A FRACTURE-INDUCING MECHANISM 67-06 M17-70633
THE PLASTIC ZONE SIZE AHEAD OF THE PROPAGATING FATIGUE CRACK 67-06 M17-70647
INFLUENCE OF METALLURGICAL DEFECT SIZE ON THE FATIGUE PROPERTIES OF CAST STEEL 67-06 M17-70822
FATIGUE IN COPPER SINGLE CRYSTALS AND A NEW MODEL OF FATIGUE IN FACE-CENTERED CUBIC METALS 67-06 M17-71518
FATIGUE-CRACK GROWTH IN SOME COPPER-BASE ALLOYS 67-06 M17-71604
FATIGUE CRACK PROPAGATION IN LOW-ALLOY HEAT-TREATED STEELS 67-06 M17-71629
FATIGUE-CRACK-PROPAGATION RATES UNDER RANDOM EXCITATION 67-06 M17-71634
INTRODUCTION TO FRACTURE TOUGHNESS 67-06 M17-72185
PROBLEMS WITH TURBINE AND GENERATOR MATERIALS 67-06 M20-70726
THE MECHANICAL PROPERTIES OF MULTI-PASS WELDS 67-07 M11-72697
CHARACTERISTICS OF BRITTLE FAILURES IN WELDED ROLLING STOCK AND PREVENTIVE MEASURES 67-07 M11-72736
THE PREVENTION OF METAL PART FAILURE BY THE USE OF PROTECTIVE COATINGS 67-07 M12-74244
THE ENDURANCE OF WELDED JOINTS IN LOW ALLOY STEELS 67-07 M13-73422
THE SIGNIFICANCE OF RECENT DEVELOPMENTS IN FRACTURE MECHANICS IN GREAT BRITAIN IN RELATION TO THE SAFETY OF REACTOR PRESSURE VESSELS 67-07 M17-73398
THE FATIGUE STRESS CORROSION OF METALLIC MATERIALS. PT. 9. PASSIVATION AND ACTIVATION PROCESSES IN THE FATIGUE STRESS CORROSION OF STAINLESS STEELS 67-07 M18-73177
STRIATIONS ON COPPER SINGLE CRYSTALS SUBJECTED TO TORSIONAL FATIGUE. PT. 2. THE MECHANISM OF FATIGUE STRIATION FORMATION AND FATIGUE FAILURE AT LOW STRAIN AMPLITUDES 67-08 M14-75123
THE POTENTIAL DANGER OF CENTRIFUGE BASKETS 67-08 M17-74510
THERMAL METHOD OF LOADING IN INTERMITTENT STATIC TESTING 67-08 M17-74530
WIRE-WOOL TYPE BEARING FAILURES..THE FORMATION OF THE WIRE WOOL 67-08 M17-74798
THE IMPORTANCE OF PROPERTIES OF MATERIALS TO THE DESIGNER 67-08 M17-75612
THE FATIGUE FACTOR IN ENGINEERING DESIGN 67-08 M17-75613
FAULTS IN DESIGN REVEALED BY SERVICE FAILURES. PT. 1 67-08 M17-75614
FAULTS IN DESIGN REVEALED BY SERVICE FAILURES. PT. 2 67-08 M17-75615
THE THERMAL FATIGUE OF DIE-CASTING DIES 67-08 M17-75749
SOME CONSIDERATION ON THE PREMATURE FAILURE OF FULLY HARDENED ROLL 67-08 M17-75771
INFLUENCE OF TREATMENT WITH ROLLERS ON THE MECHANICAL AND TECHNOLOGICAL PROPERTIES OF CASE-HARDENED STEELS 67-08 M17-76002
CORROSION-FATIGUE CRACK PROPAGATION IN MODERN HIGH-PERFORMANCE STRUCTURAL STEELS 67-08 M18-75974
THE FATIGUE OF LEAD CABLE SHEATH MATERIALS 67-09 M17-76605
THE CONTRIBUTION OF A METALLURGIST TO TRIBOLOGY 67-09 M17-77231
STATISTICAL INTERPRETATION OF THE ENDURANCE CHARACTERISTICS OF SPOT WELDED JOINTS IN ALUMINIUM ALLOY AMG6 67-09 M17-77234
DEVELOPMENT OF SLIP BANDS ON THE STEEL SURFACE DURING DATIGUE TESTING 67-09 M17-77285
SMOOTH SPECIMEN SIMULATION OF FATIGUE BEHAVIOR OF NOTCHES 67-09 M17-78047
YOU CAN AVOID THE HIGH COST OF HEAVY MACHINERY FAILURES 67-10 M17-78628
SHAFT CURRENTS AS CAUSES OF BEARING FAILURE 67-10 M17-78901
THE ORIGIN OF MICROCRACKS IN METALLIC MATERIALS BEING SUBJECTED TO ALTERNATING STRESSES 67-10 M17-79063
FATIGUE CRACK PROPAGATION IN THE HARDENED STEEL 67-10 M17-79598
FATIGUE CRACKING OF IRON AFTER ELECTROPLATING 67-10 M17-79767
ENGINEERING APPLICATIONS OF FRACTOGRAPHY 67-11 M17-80688
TEMPERATURE-TIME RELATIONSHIP OF THE STRENGTH OF METALS AND ALLOYS IN EQUILIBRIUM. PT. 1. METALS 67-11 M17-80736
THE EFFECT OF ENVIRONMENTS ON FATIGUE-CRACK PROPAGATION IN AN ULTRAHIGH-STRENGTH STEEL 67-11 M17-81033
STUDIES ON THE SUBSTRUCTURE DEVELOPED AROUND FATIGUE CRACKS 67-11 M17-81065
ANALYSIS OF TAPERED ROLLER BEARING DAMAGE 67-11 M17-81125
THE APPLICATION OF ELECTRON FRACTOGRAPHY TO FATIGUE STUDIES 67-11 M17-81127
FATIGUE OF BORON FILAMENT 67-11 M17-81353
PREVENTING BRITTLE FRACTURES OF WELDED STRUCTURES IN ROLLING STOCK 67-12 M11-82315
WELDING OF MACHINE AND MACHINE PARTS 67-12 M11-82506
THE EMBRITTLING EFFECT OF SMALL ELASTIC STRESS WAVES ON CRACK TOUGHNESS OF A STRUCTURAL STEEL 67-12 M17-81853
FORMATION OF FATIGUE CRACKS IN WELDMENTS UNDER THE EFFECT OF COMPRESSIVE STRESSES 67-12 M17-82630
THE FATIGUE AND TENSILE FRACTURE OF TD-NICKEL 67-12 M17-82972
A FRACTOGRAPHIC INVESTIGATION OF THE EFFECT OF ENVIRONMENT ON FATIGUE-CRACK PROPAGATION IN AN ULTRAHIGH-STRENGTH STEEL 67-12 M17-83045
MICROSCOPIC FATIGUE FRACTURE SURFACE FEATURES IN 2024-T3 ALUMINUM AND THE INFLUENCE OF CRACK

FATIGUE FAILURE

PROPAGATION ANGLE UPON THEIR FORMATION 67-12 M17-83051
FRACTURE BEHAVIOR OF ULTRAHIGH-STRENGTH-STEEL LAMINAR COMPOSITES 67-12 M17-83056
FATIGUE FAILURE, ALLOYING EFFECTS
EFFECT OF DISSOLVED HYDROGEN ON THE FATIGUE BEHAVIOR OF AN AL-AL203 SAP-TYPE ALLOY 67-04 M17-66918
FATIGUE FAILURE, IMPURITY EFFECTS
RESIDUALS IN STEEL FOR TUBES 67-07 M07-73078
FATIGUE FAILURE, STRESS EFFECTS
FATIGUE AS A DESIGN CRITERION 67-07 M17-73216
STRAIN-CYCLE PHENOMENA IN THIN-WALL TUBING 67-07 M17-73391
FATIGUE FAILURE OF COMPONENTS OF LIFTING MACHINERY 67-08 M17-74502
FATIGUE FAILURE OF A SCREWED SHAFT 67-08 M17-74511
FATIGUE CRACK PROPAGATION IN A SI-MN STEEL UNDER CONSTANT DEFLECTION 67-08 M17-75972
HOW TO PREVENT FATIGUE FAILURE 67-09 M17-76742
HOW TO PREVENT FATIGUE FAILURE 67-09 M17-77820
FATIGUE FAILURE, TEMPERATURE EFFECTS
THE BEHAVIOR OF COATINGS AT EXTREMELY LOW TEMPERATURES 67-02 M17-59077
INVESTIGATION OF CREEP AT VARIABLE TEMPERATURES 67-05 M17-69612
TEMPERATURE DEPENDENCE OF THE FATIGUE TRANSITION PRESSURE FOR ALUMINUM 67-06 M17-70443
FATIGUE FAILURE, WELDING EFFECTS
FAILURE OF A HYDRAULIC CLUTCH 67-08 M17-75533
FAILURE OF A FAN ROTOR 67-08 M17-75534
CRACKS IN THE BOTTOM PLATING AT THE STERN OF A SHIP 67-08 M17-75535
FAILURE OF THE SHAFT OF A VERTICAL PUMP 67-08 M17-75536

FATIGUE FRACTURE
SEE FATIGUE FAILURE
FATIGUE LIFE
REFRACTORIES FOR BASIC OXYGEN FURNACES 67-01 M04-58454
HINTS ON THE DESIGN OF LARGE DRAWING DIES 67-01 M08-58112
INVESTIGATION OF THE POSSIBILITIES OF USING WROUGHT ALUMINUM ALLOYS, ESPECIALLY OF THE TYPE ALZNMGCU, FOR SPRINGS SUBJECTED TO BENDING AND TORSIONAL STRESSES. PT. 2 67-01 M17-58224
FATIGUE BEHAVIOR OF ALUMINUM IN VACUUM 67-02 M17-58947
FISH EYE APPEARING ON THE FATIGUE FRACTURED SURFACE OF BALL BEARING STEEL 67-02 M17-59710
THE EFFECT OF VACUUM OUTGASSING TIME ON THE FATIGUE BEHAVIOR OF TWO STRUCTURAL ALUMINUM ALLOYS 67-02 M17-60625
NEW DATA ON FATIGUE LIFE OF MALLEABLE IRON PARTS 67-03 M17-65024
UTILIZATION OF PLASTIC FLOW LEADING TO LONG FATIGUE LIFE IN ORDERED ALLOYS 67-04 M17-66127
THE EFFECT OF FIBRE DIAMETER AND DISCONTINUOUS FIBRES ON THE FATIGUE OF A FIBRE-REINFORCED METAL 67-04 M17-66151
DISLOCATION SUBSTRUCTURE AND EXTENSION OF FATIGUE LIFE IN METAL CRYSTALS 67-04 M17-66925
AN INVESTIGATION OF THE FATIGUE BEHAVIOR OF 18 PER CENT NICKEL MARAGING STEEL 67-04 M17-66928
FATIGUE RESISTANCE AND WORKING LIFE OF MACHINE PARTS HARDENED BY CHEMICOTHERMAL TREATMENT 67-04 M17-67954
THE EFFECT OF THE FREQUENCY OF IMPACT ON THE FATIGUE LIFE OF STEEL 67-05 M17-69616
FATIGUE TESTING OF AN AL-MG-MN ALLOY PRESSURE VESSEL 67-05 M17-69714
RESIDUAL STRESSES AND FATIGUE LIFE OF CASE-CARBURIZED GEARS 67-06 M17-70878
STEEL CABLES WITH METALLIC CORES 67-06 M17-71270
INFLUENCE OF THE TYPE OF LOADING ON THE RESULTS OF FATIGUE TESTS ON STEELS 67-06 M17-71511
THE USE OF MATERIALS PROPERTIES BY THE REACTOR VESSEL DESIGNER 67-07 M17-73397
LOW-CYCLE FATIGUE OF METALS--A REVIEW OF THE STATE OF RESEARCH 67-07 M17-73707
THE FATIGUE OF CU-NI-FE ALLOYS 67-07 M17-73921
METAL-CORED STEEL WIRE ROPE 67-08 M17-73739
ELASTIC AND FATIGUE PROPERTIES OF VACUUM REMELTED VERSES AIR-MELTED NI-SPAN-C ALLOY 902 FOR BOURDON TUBES 67-12 M17-83251
ON THE CORROSION-FATIGUE AND FATIGUE-DAMAGE OF CAST IRON 67-12 M18-82603

FATIGUE LIFE, ALLOYING EFFECTS
EFFECT OF DISSOLVED HYDROGEN ON THE FATIGUE BEHAVIOR OF AN AL-AL203 SAP-TYPE ALLOY 67-04 M17-66918
THE ROLLING FATIGUE PROPERTIES OF CASE-HARDENING ALLOY STEELS WITH OR WITHOUT LEAD ADDITION 67-08 M17-75753
FATIGUE LIFE, HEATING EFFECTS
STRUCTURE AND PROPERTIES OF STRUCTURAL STEEL MADE BY VARIOUS METHODS 67-02 M17-61951
STRUCTURE AND PROPERTIES OF CONSTRUCTIONAL STEEL MELTED BY VARIOUS METHODS 67-04 M17-67782
FATIGUE LIFE, PRESSURE EFFECTS
THE EFFECT OF PRESSURE ON FATIGUE 67-12 M17-83487
FATIGUE LIFE, RADIATION EFFECTS
SOME EFFECTS OF PROTON, ELECTRON, AND NEUTRON IRRADIATION ON THE FATIGUE PROPERTIES OF COPPER SINGLE CRYSTALS 67-12 M17-82971
FATIGUE LIFE, STRESS EFFECTS
STEPPING UP THE FIGHT AGAINST FRACTURE AND FATIGUE 67-01 M17-58485
CUMULATIVE DAMAGE AND EFFECT OF MEAN STRAIN IN LOW-CYCLE FATIGUE OF A 2024-T351 ALUMINUM ALLOY 67-04 M17-66239
CYCLING TESTS ON GRADE 35 CAST IRON 67-09 M17-77556
FATIGUE LIFE, TEMPERATURE EFFECTS
LOW-ENDURANCE FATIGUE OF AN ALUMINIUM ALLOY AND A STAINLESS STEEL IN PLANE BENDING AT AMBIENT AND ELEVATED TEMPERATURES 67-03 M17-65172
TEMPERATURE DEPENDENCE OF THE FATIGUE TRANSITION PRESSURE FOR ALUMINUM 67-06 M17-70443
FAILURE MODES IN NICKEL FATIGUED IN VACUUM AS A FUNCTION OF TEMPERATURE AND PURITY 67-12 M17-82976
FATIGUE LIFE, WELDING EFFECTS
WELD SURFACE CONTOUR VARIATIONS 67-02 M11-61648

FATIGUE LIMIT
METHOD OF INCREASING THE LIFE OF STEELS AND ALLOYS 67-01 M17-58157
THE EFFECT OF NICKEL PLATING ON THE FATIGUE STRENGTH OF CARBON STEEL 67-01 M17-58387
ENDURANCE LIMIT UNDER COMBINED ROTATING BENDING AND STATIC TENSION 67-02 M17-58813
CRITERIA FOR ENDURANCE LIMITS OF STEEL 67-02 M17-58815
ENDURANCE LIMITS OF BEAMS OF VARIOUS CROSS-SECTIONS UNDER CYCLIC BENDING 67-02 M17-58816
ANOTHER CRITERION FOR ENDURANCE LIMITS OF STEEL 67-02 M17-58817
ENDURANCE LIMITS OF SOLID AND HOLLOW CYLINDERS UNDER TORSION 67-02 M17-58818
FATIGUE TESTING PREVIOUSLY STRAINED SPECIMENS 67-02 M17-58835
INVESTIGATION OF THE ENDURANCE OF HIGH-STRENGTH REINFORCING BARS FROM LOW-ALLOY STEEL OF THE A-IV CLASS 67-02 M17-59788
ROTATING BENDING FATIGUE BEHAVIOR OF AV22 TN AL ALLOY ANODIZED SPECIMEN 67-02 M17-62290
FATIGUE LIMITS OF CERTAIN REFINED ALLOY STEELS 67-04 M17-67135
FATIGUE RESISTANCE OF LOW-ALLOYED STRUCTURAL STEELS 67-04 M17-67971
ON STRENGTH TESTS OF PRE-ELONGATED SAMPLES 67-04 M17-68081
A METHOD OF COMPARING THE EFFECTIVENESS OF THE HARDENING OF MACHINE PARTS WITH THE RESULTS OF SAMPLE TESTS 67-04 M17-68082
FATIGUE PROPERTIES OF POWDER METAL COMPOSITIONS 67-05 M17-68947
THE RELATION BETWEEN YIELD AND FATIGUE FRACTURE OF MILD STEEL 67-06 M17-70628
CRACK PROPAGATION AT STRESSES BELOW THE FATIGUE LIMIT 67-06 M17-71084
EFFECT OF STRESS CONDITIONS ON FATIGUE STRENGTH AND DURABILITY OF STEEL 67-06 M17-71366
THE ANISOTROPY COEFFICIENT OF DUCTILITY AS A FACTOR RELATED TO STEEL PURITY AND FATIGUE PROPERTIES OF FORGINGS 67-08 M17-75816
CORRELATION OF FATIGUE LIMIT WITH MICROSTRUCTURE AND COMPOSITION OF FERRITE-PEARLITE STEELS 67-08 M17-76147
ANALYSIS OF RESIDUAL, THERMAL, AND LOADING STRESSES IN A B33 WHEEL AND THEIR RELATIONSHIP TO FATIGUE DAMAGE 67-09 M17-76460
FATIGUE LIMIT IN AIR AND UNDER CORROSION OF A MARTENSITIC STEEL CONTAINING 13 PER CENT CR AFTER

DIFFERENT MECHANICAL AND HEAT TREATMENTS
67-09 M17-78039
THE CURRENT POSITION OF THE DEVELOPMENT AND USE OF ELECTROSLAG REMELTING IN THE CZECHOSLOVAKIAN IRON AND STEEL WORKS 67-11 M04-80207
FATIGUE HARDENING OF COPPER SINGLE CRYSTALS AT LOW STRESS AMPLITUDES 67-11 M17-81261
DETERMINATION OF TENSILE STRENGTH AND FATIGUE LIMIT OF GRAY CAST IRON 67-12 M17-82392
FATIGUE PROPERTIES OF PURE METALS
67-12 M17-83488
TITANIUM CASTINGS FOR AIRFRAME STRUCTURAL APPLICATIONS 67-12 M20-82453

FATIGUE LIMIT, ALLOYING EFFECTS
THE INFLUENCE OF ALLOYING ELEMENTS ON THE PROPERTIES, ESPECIALLY TEMPERATURE ENDURANCE, OF CAST IRON WITH LAMELLAR GRAPHITE
67-09 M17-76519
EFFECT OF COMBINED ALLOYING WITH MANGANESE, TUNGSTEN AND MOLYBDENUM ON THE CORROSION FATIGUE AND CORROSION RESISTANCE OF SHKH 15 STEEL
67-12 M18-82191

FATIGUE LIMIT, CORROSION EFFECTS
CORROSION FATIGUE STRENGTH OF DURALUMIN IN THE PRESENCE OF STRESS CONCENTRATORS
67-12 M18-82187

FATIGUE LIMIT, PRESSURE EFFECTS
SHORT ENDURANCE FATIGUE OF SUPPORTED, PRESSURIZED THIN SHELLS 67-12 M17-83241

FATIGUE LIMIT, SIZE EFFECTS
THE STATISTICAL FACTOR OF THE SIZE EFFECT IN FATIGUE TESTING OF STEEL 67-12 M17-82182

FATIGUE LIMIT, STRESS EFFECTS
EFFECT OF INFREQUENT COMPRESSION CYCLES ON THE FATIGUE LIMIT OF STRUCTURAL ELEMENTS
67-02 M17-58833
ON THE STRENGTH OF AUSTENITIC STEELS DURING CYCLIC LOADING 67-04 M17-67381
THE EFFECT OF WIDELY SPACED COMPRESSION CYCLES ON THE STRENGTH OF A STRUCTURAL ELEMENT
67-04 M17-68079

FATIGUE LIMIT, WELDING EFFECTS
THE PRODUCTION OF REPRODUCIBLE WELDING DEFECTS AND THEIR EFFECT ON FATIGUE STRENGTH
67-02 M17-59812

FATIGUE PROPERTIES
SEE FATIGUE /MATERIALS/

FATIGUE STRENGTH
SOME PARAMETERS OF CONTACT DEPOSIT ELECTROWELDING
67-01 M12-57397
ON THE STRESS CONCENTRATION COEFFICIENT FOR CALCULATING THE FATIGUE STRENGTH OF THE ROLLING MILL BEDS 67-01 M17-57196
FATIGUE STRENGTH OF CAST MEDIUM-CARBON STEEL
67-01 M17-57475
INVESTIGATION OF THE POSSIBILITIES OF USING WROUGHT ALUMINUM ALLOYS, ESPECIALLY OF THE TYPE ALZNMGCU, FOR SPRINGS SUBJECTED TO BENDING AND TORSIONAL STRESSES. PT. 2 67-01 M17-58224
THE FATIGUE BEHAVIOR OF SINTERED MATERIALS. PT. 2
67-01 M17-58230
THE EFFECT OF ELECTROCHEMICAL CONDITIONS ON THE FATIGUE STRENGTH OF PLAIN CARBON STEEL
67-01 M17-58339
FATIGUE STRENGTH OF CONNECTING PIPE WELDED JOINTS
67-02 M11-59513
A RAPID DETERMINATION OF THE FATIGUE STRENGTH OF GALVANIZED STEEL 67-02 M17-58834
A METHOD OF COMPARING THE EFFECTIVENESS OF STRENGTHENING MACHINE COMPONENTS WITH RESULTS OF SPECIMEN TESTING 67-02 M17-58836
FATIGUE BEHAVIOR OF ALUMINUM IN VACUUM
67-02 M17-58947
ROPE WIRE FOR TODAYS APPLICATIONS
67-02 M17-59011
EFFECT OF BORATING ON FATIGUE AND CORROSION FATIGUE STRENGTH OF STEEL 67-02 M17-59654
EFFECT OF THE PURITY OF STEEL AND OF THE CORROSIVE MEDIUM ON LOW-CYCLE FATIGUE 67-02 M17-59655
THE ROLE OF THE CLADDING LAYER IN THE FATIGUE PROCESS OF DURALUMIN 67-02 M17-59656
APPLICATION OF BRITTLE COATING IN DIMENSIONING MACHINES EXPOSED TO COMPLEX LOADING
67-02 M17-59702
FATIGUE STUDIES OF MARINE THREAD JOINTS
67-02 M17-59704
RESEARCH INTO THE FATIGUE STRENGTH OF BUTT WELDED JOINTS BETWEEN STEEL TUBES 67-02 M17-59794
IMPACT FATIGUE STRENGTH OF HIGH-STRENGTH STAINLESS STEELS IN A WATER JET 67-02 M17-59952
ON THE INFLUENCE OF NOTCHES AND HEAT TREATMENT ON THE FATIGUE STRENGTH OF TUNGSTEN CARBIDE-COBALT ALLOYS 67-02 M17-60121
MEDIUM AND HIGH STRENGTH ALUMINUM ALLOYS AND THEIR BEHAVIOR AT LOW TEMPERATURE 67-02 M17-60609
STUDY ON THE FATIGUE STRENGTH OF ROLLER-CHAIN LINK PLATE. THE EFFECTS OF LINK PLATE FORM, SHOT-PEENED AND FINISHED HOLE 67-02 M17-60660
THE EFFECTS OF SHOT-PEENING ON THE FATIGUE STRENGTHS OF 7075 AND 7076 ALUMINUM ALLOYS
67-02 M17-60661
AXIAL FATIGUE ON CARBON STEEL IN THE PLASTIC RANGE
67-02 M17-60662
FATIGUE STRENGTH OF WELDED JOINTS AT LOW TEMPERATURE 67-02 M17-60663
FATIGUE OF WELDED STRUCTURES--RETROSPECT AND PROSPECT 67-02 M17-60912
USE OF 35 NCD 16 STEEL IN AERONAUTICS
67-02 M17-61964
USING CONCENTRATED --SPOT-- HEAT TO IMPROVE THE FATIGUE STRENGTH OF WELDED JOINTS
67-02 M17-62166
A STATISTICAL STUDY OF THE MECHANISMS OF CHANGES IN FATIGUE CHARACTERISTICS 67-02 M17-62282
POSSIBILITIES OF MEASURING AND REGULATING THE C-POTENTIAL DURING GAS-CARBURIZING AND ITS PRACTICAL SIGNIFICANCE 67-03 M10-65175
A MACHINE FOR LOW CYCLE HIGH-TEMPERATURE FATIGUE TESTING 67-03 M17-65315
MULTIPLE SPECIMEN FATIGUE TESTING
67-03 M17-65407
CERTAIN CHARACTERISTICS OF THE BEHAVIOR OF AUSTENITIC STEELS DURING ALTERNATE LOADING
67-03 M17-65783
INFLUENCE OF SOME DEFECTS IN STEELS UPON THE FATIGUE STRENGTH 67-03 M17-65824
FROM EUROPE COMES A GROUP OF WELL-TRIED CR-MO AND CR-MO-V NITRIDING STEELS 67-03 M17-65982
IMPROVED NITRIDING PROCESS PROLONGS GEAR LIFE
67-04 M10-68172
FATIGUE STRENGTH OF EXPLOSION-CLAD STEEL BIMETALS
67-04 M12-67802
THE FATIGUE STRENGTH OF REINFORCING BARS IN CONCRETE 67-04 M17-66296
FATIGUE STRENGTH OF WELDED JOINTS FOR PIPE CONNECTORS 67-04 M17-66462
THE FATIGUE STRENGTH OF SINTERED MATERIALS
67-04 M17-66557
INVESTIGATIONS OF THE RESISTANCE TO FAILURE OF THE NICKEL BEARING ALUMINIUM ALLOYS
67-04 M17-66605
INFLUENCE OF TEMPER ON THE FATIGUE STRENGTH OF CARTRIDGE BRASS --ALLOY 260-- SHEET
67-04 M17-66680
AN INVESTIGATION OF THE FATIGUE BEHAVIOR OF 18 PER CENT NICKEL MARAGING STEEL 67-04 M17-66928
REDUCTION OF ADSORPTION CAPACITY BY STEEL SPECIMENS IN CONTACT WITH A MELT, AND THE ROLE OF GASEOUS IMPURITIES 67-04 M17-67048
PRACTICAL APPLICATION OF THE PROBABILITY THEORY TO FATIGUE TESTS OF ALUMINUM 67-04 M17-67126
FATIGUE STRENGTH OF SOME HEAT TREATED ALLOY STEELS
67-04 M17-67153
IMPROVING THE FATIGUE STRENGTH OF WELDED JOINTS
67-04 M17-67164
METHOD OF EVALUATING THE EFFECT OF PEAK LOADS ON THE FATIGUE STRENGTH OF LARGE-SCALE SPECIMENS UNDER VARIABLE LOAD 67-04 M17-68078
A NEW METHOD FOR THE DETERMINATION OF THE FATIGUE STRENGTH OF CARBON STEELS BASED ON MAGNETIC VISCOSITY 67-04 M17-68147
STRENGTH OF ARC WELDED CRUCIFORM JOINTS IN STEEL ST. 3 67-05 M11-68261
INFLUENCE OF FERRITE ON THE FATIGUE RESISTANCE OF 40KH STEEL 67-05 M17-68371
MARAGING STEEL AND LOW-ALLOY STEELS OF VERY HIGH STRENGTH 67-05 M17-68781
A NEW TYPE OF 13 PER CENT CR CAST STEEL WITH HIGH PROPERTIES AND IMPROVED WELDABILITY
67-05 M17-68782
STUDY OF THE EFFECT OF A NOTCH ON THE FATIGUE BEHAVIOR OF A CR-MO STEEL 67-05 M17-68783
FROM THE CASTING STAGE TO MECHANICS
67-05 M17-68914
FATIGUE PROPERTIES OF POWDER METAL COMPOSITIONS
67-05 M17-68947
FATIGUE STRENGTH OF SOME HEAT RESISTANT MATERIALS IN VARYING TEMPERATURE CONDITIONS

67-05 M17-69258
CYCLING STRENGTH AND WEAR RESISTANCE OF 40KHN STEEL AFTER QUENCH WITH TEMPER AND AFTER ISOTHERMAL TREATMENT 67-05 M17-69699
FATIGUE STRENGTH OF TWO LAYER STEEL, CLAD BY EXPLOSION BONDING 67-06 M12-70302
THE ESTIMATION OF FATIGUE STRENGTH OF STEELS BY CORRELATION FORMULAS 67-06 M17-70034
THE EFFECTS OF FINAL DEOXIDATION AND HEAT TREATMENT ON THE FATIGUE STRENGTH OF CAST MEDIUM-CARBON STEEL 67-06 M17-70378
FATIGUE APPARATUS FOR EXTREME HIGH VACUUM 67-06 M17-70550
GUIDE TO SELECTION OF MATERIALS FOR BUSHINGS AND THRUST BEARINGS 67-06 M17-70724
PARAMETERS OF THERMAL CONDITIONS, RIGIDITY OF LOADING AND THEIR EFFECT ON THE APPEARANCE OF PRIMARY AND SECONDARY PLASTIC DEFORMATIONS DURING THERMAL LOAD CYCLING OF A METAL 67-06 M17-70927
EFFECT OF THE LOADING FREQUENCY ON THE CORROSION FATIGUE STRENGTH OF SPECIMENS FROM CARBON STEEL WITH STRESS CONCENTRATORS 67-06 M17-70936
CREEP--FATIGUE BEHAVIOR OF POLYCRYSTALLINE ZINC 67-06 M17-70956
THE EFFECT OF SUPERIMPOSED FATIGUE ON THE CREEP BEHAVIOR OF THE NICKEL-BASE ALLOY UDIMET 700 67-06 M17-71082
PROPERTIES OF PYROLYTICALLY PRODUCED BORON FIBERS 67-06 M17-71619
EFFECT OF NON-METALLIC INCLUSIONS ON THE FATIGUE OF BEARING STEEL 67-06 M17-72295
MECHANICAL BEHAVIOR OF A CONTINUOUS FILAMENT CARBON COMPOSITE 67-07 M09-73345
WELD SURFACE DEFECTS--STRIKES, PITS AND SPATTER 67-07 M11-73306
THE ENDURANCE OF WELDED JOINTS IN LOW ALLOY STEELS 67-07 M13-73422
FATIGUE BEHAVIOR UNDER ALTERNATING STRESSES OF MOLDED CARBON POWDER MATERIALS 67-07 M17-72480
INCREASING THE FATIGUE LIFE OF SPOT-WELDS IN ALUMINUM AND TITANIUM ALLOYS 67-07 M17-72785
THE FATIGUE STRENGTH OF NONFERROUS METALS WITH MACHINE-FINISHED SURFACE 67-07 M17-72976
INFLUENCE OF ELECTROPOLISHING TEMPERATURE ON FATIGUE STRENGTH OF 12KHN3A STAINLESS STEEL 67-07 M17-73176
IMPROVING THE STRENGTH OF WELD JOINTS DURING IMPACT LOADING BY HEATING AND ABRUPT COOLING 67-07 M17-73479
ON THE CHANGES OF SOME PROPERTIES OF STEEL DURING ALTERNATING STRESSES 67-07 M17-73708
THE FATIGUE STRENGTH OF BUTT-WELDED JOINTS IN LOW-ALLOY STRUCTURAL STEELS 67-07 M17-73886
FATIGUE STRENGTH AND DAMPING CHARACTERISTICS OF MAGNESIUM IRON FOR MOTORCYCLE CRANKSHAFTS 67-07 M17-74046
FATIGUE STRENGTH AND WEAR RESISTANCE OF 40 KHN STEEL AFTER TEMPER HARDENING AND ISOTHERMAL TREATMENT 67-07 M17-74085
FATIGUE OF THICK CYLINDERS--FURTHER PRACTICAL INFORMATION 67-07 M17-74087
MECHANICAL PROPERTIES OF CARBONITRIDED STEELS. PT. 2. THE FATIGUE STRENGTH OF CARBONITRIDED STEELS--THE RELATIONSHIP BETWEEN RESIDUAL AUSTENITE CONTENT IN CARBONITRIDED LAYERS AND FATIGUE STRENGTH 67-07 M17-74210
INFLUENCE OF DIFFUSION CHROMIZING ON FATIGUE AND CORROSION FATIGUE OF CARBON STEEL 67-07 M18-74183
PUSH-PULL LOW ENDURANCE FATIGUE OF EN 25 AND EN 32B STEELS AT 20 C. AND 450 C 67-08 M17-74499
VACUUM POURING AND SOLIDIFICATION OF CREEP RESISTING ALLOY CASTINGS 67-08 M17-74554
X-RAY AND FATIGUE STUDIES OF HARDENED AND COLD-WORKED STEELS 67-08 M17-75346
SOME FACTORS AFFECTING THE FATIGUE STRENGTH OF FILLET WELDS 67-08 M17-75363
THE EFFECT OF PRELIMINARY CYCLICAL HEAT TREATMENT ON FATIGUE 67-08 M17-75887
DISPERSION-STRENGTHENING IN NIOBIUM-BASE ALLOYS 67-09 M10-77289
FATIGUE BEHAVIOUR OF PLUTONIUM-1.0 WT PER CENT GALLIUM DELTA-STABILIZED PLUTONIUM 67-09 M17-76330
STABILITY OF PLASTIC AND FATIGUE PROPERTIES OF 1KH18N9T STAINLESS STEEL UNDER STATIC LOAD IN VACUUM AND IN LIQUID LITHIUM 67-09 M17-76426
INFLUENCE OF DIFFUSION CHROMIZING ON SOME PHYSICAL AND MECHANICAL PROPERTIES OF CARBON STEEL 67-09 M17-76434
INFLUENCE OF BORIDING ON SOME PHYSICAL AND MECHANICAL PROPERTIES OF STEEL 45 67-09 M17-76436
DISPERSION STRENGTHENED LEAD--PROPERTIES AND POTENTIALITIES IN CHEMICAL PLANT AND SOME EARLY FIELD TRIALS 67-09 M17-76603
TESTS ON THIRTEEN DIFFERENT LEAD CABLE SHEATHING MATERIALS 67-09 M17-76606
FURTHER TECHNIQUES FOR IMPROVING THE FATIGUE STRENGTH OF WELDED JOINTS 67-09 M17-76652
SOME FATIGUE TESTS ON FILLET WELDED MILD AND HIGH TENSILE STEEL SPECIMENS IN THE AS-WELDED AND NORMALIZED CONDITIONS 67-09 M17-76653
FATIGUE STRENGTH OF COLD WORKED 18/8 CR-NI AND OTHER AUSTENITIC ALLOY STEELS 67-09 M17-76905
TEST OF THE WEAR RESISTANCE AND FATIGUE STRENGTH OF SPECIMENS BUILT UP WITH ALLOY WIRE 67-09 M17-76990
THE PROBLEM OF SHAPE-DEPENDENT STRENGTH IN WELDED STRUCTURES 67-09 M17-77307
INVESTIGATION OF FATIGUE STRENGTH OF METALS UNDER ACTUAL SERVICE LOADS--WITH TWO SUPERIMPOSED CYCLIC LOADINGS 67-09 M17-77575
BENDING FATIGUE STRENGTH OF GEARS UNDER VARIOUS LOADING CONDITIONS 67-09 M17-77577
CALCULATING THE FATIGUE STRENGTH OF WELDED JOINTS WHEN STRESS RAISERS ARE PRESENT 67-09 M17-78085
FOR HIGH FATIGUE STRENGTH, SELECT A STRONG STEEL 67-10 M17-78633
EVALUATING ALLOYS FOR FAILURE-SAFE STRUCTURES 67-10 M17-78763
FATIGUE PROPERTIES OF TITANIUM ALLOY FASTENERS 67-10 M17-78851
EFFECT OF WORKHARDENING AND LOADING CONDITIONS ON FATIGUE STRENGTH AND LONGEVITY 67-10 M17-79333
A CRITERION FOR FATIGUE FRACTURE UNDER MULTIAXIAL ALTERNATING STRESS STATE 67-10 M17-79599
INNER SPACE--A METALLURGICAL CHALLENGE 67-10 M17-79781
FATIGUE STRENGTH OF CARBON STEEL CASTINGS 67-10 M17-79878
FATIGUE STRENGTH OF BEARING METAL LINING ON STEEL PLATES IN LUBRICATING OIL 67-10 M17-79879
CREEP AND FATIGUE STRENGTH OF QUENCHED AND TEMPERED TYPE M-2 AND TYPE H-13 STEELS IN TEMPERATURE RANGE OF 300 TO 550 C 67-10 M17-79994
THE FATIGUE STRENGTH OF FRICTION WELDED JOINTS 67-11 M11-80879
REVERSE BENDING FATIGUE STRENGTH OF ALLOYED QUENCHED AND HARDENED STEELS AFTER INDUCTIVE SURFACE HARDENING 67-11 M17-80102
MECHANICAL-TECHNOLOGICAL PROPERTIES OF ULTRAPURE STRUCTURAL STEELS 67-11 M17-80221
HOW DANGEROUS ARE WELD DEFECTS 67-11 M17-81197
RECOMMENDED A. S. T. M. PRACTICE FOR PLANE-STRAIN FRACTURE TOUGHNESS TESTING OF HIGH STRENGTH METALLIC MATERIALS USING A FATIGUE-CRACKED BEND SPECIMEN 67-11 M17-81467
MECHANICAL BEHAVIOR OF A FIBER REINFORCED METAL AND ITS EFFECT ON ENGINEERING APPLICATION 67-11 M17-81518
AL CASTING ALLOYS FOR HIGH-TEMPERATURE 67-11 M17-81547
PROBLEMS AND DEFICIENCIES ASSOCIATED WITH THE USE OF STEEL IN GAS TURBINE ENGINEERING 67-11 M20-80284
BOILER STEEL PROPERTY REQUIREMENTS 67-11 M20-80285
PREDICTING BEARING PERFORMANCE 67-11 M20-81366
THE USE OF SPHEROIDAL CAST IRON IN CRANKSHAFTS 67-11 M20-81544
A RATIONAL APPROACH TO STANDARDS FOR WELDED CONSTRUCTION. PT. 3 67-12 M11-82660
MICROSTRUCTURAL FEATURES OF FATIGUE FRACTURE OF COMMERCIAL IRON IN THE DYNAMIC STRAIN AGING TEMPERATURE RANGE 67-12 M13-82338
USE OF CRACK-LINE-LOADED SPECIMENS FOR MEASURING PLANE-STRAIN FRACTURE TOUGHNESS 67-12 M17-81855
STUDIES ON SURFACE EFFECT AND NOTCH EFFECT ON THE FATIGUE OF WELDED ALUMINUM ALLOYS. PT. 1

67-12 M17-81902
STUDIES ON THE EFFECTS OF LACK OF PENETRATION AND BEAD PROFILES ON THE FATIGUE OF WELDED ALUMINUM ALLOY. PT. 2 67-12 M17-81903
INCREASING THE FATIGUE LIMIT OF FRICTION-WELDED JOINTS 67-12 M17-81915
SHORT DURATION CREEP AND RELAXATION OF HIGH-TEMPERATURE ALLOYS 67-12 M17-82158
THE EFFECT OF NONMETALLIC NICLUSIONS ON THE FATIGUE STRENGTH OF QUENCH-HARDENED STEEL 67-12 M17-82189
THE THERMAL FATIGUE OF SPHEROIDAL GRAPHITE CAST IRON 67-12 M17-82601
FATIGUE STRENGTH AND DAMPING PROPERTIES OF WELDMENTS OF KH17N2 AND D15L STEELS 67-12 M17-82632
THE FATIGUE BEHAVIOR OF METALLIC MATERIALS 67-12 M17-82837
INVESTIGATION OF THE RELATIONSHIP BETWEEN THE BENDING FATIGUE STRENGTH AND THE DISTRIBUTION OF RESIDUAL STRESSES OF CASE-HARDENED STEELS 67-12 M17-82844
INCREASE IN THE FATIGUE STRENGTH OF HIGH-STRENGTH STRUCTURAL ALLOY STEELS THROUGH BATH NITRIDING AS A FUNCTION OF CORE STRENGTH AND NITRIDING TIME 67-12 M17-82846
SOME DATA CONCERNING THE FATIGUE BEHAVIOR OF NITRIDED STEELS 67-12 M17-82847
LOW CYCLE FATIGUE STRENGTH OF SHIP STRUCTURAL STEELS 67-12 M17-82923
AN X-RAY STUDY OF THE INFLUENCE OF STACKING FAULT ENERGY ON THE FATIGUE BEHAVIOR OF NICKEL-COBALT ALLOYS 67-12 M17-83069

FATIGUE STRENGTH, ANISOTROPY
ANISOTROPY OF FATIGUE RESISTANCE OF METALS 67-12 M17-81888

FATIGUE STRENGTH, COMPOSITION EFFECTS
PROPERTIES OF RAILS WITH HIGH SILICON CONTENT 67-04 M17-66628

FATIGUE STRENGTH, CORROSION EFFECTS
THE EFFECT OF BOUNDARY OXIDATION ON THE FORMATION OF THE SURFACE ZONE AND THE FATIGUE STRENGTH OF CASE-HARDENED SPECIMENS 67-02 M17-59531

FATIGUE STRENGTH, DIFFUSION EFFECTS
THE ROLE OF IMPURITIES IN REACTIONS BETWEEN LIQUID ALLOYS AND SOLID METALS UNDERGOING DEFORMATION 67-12 M17-82436

FATIGUE STRENGTH, FIBER METALLURGY
BORON-FILAMENT REINFORCED PLASTIC COMPOSITES FOR AIRCRAFT STRUCTURES 67-07 M09-73721

FATIGUE STRENGTH, HEATING EFFECTS
AN EXPERIMENTAL STUDY ON THE FATIGUE STRENGTH OF CARBON STEELS 67-04 M17-67596
THE BEHAVIOR OF SOME --ALPHA PLUS BETA-- TI ALLOYS UNDER STATIC AND DYNAMIC STRESS AT ELEVATED TEMPERATURES 67-05 M17-68514
HEAT TREATMENTS AND THEIR EFFECTS ON FATIGUE STRENGTH OF PARTS 67-06 M10-72145
FATIGUE STRENGTH OF CAST MEDIUM-CARBON STEEL 67-06 M17-70763
NODULAR GRAPHITE STEEL. EFFECT OF HEAT TREATMENT ON MECHANICAL PROPERTIES 67-08 M17-74426
MECHANICAL PROPERTIES OF PHOSPHOR BRONZE WIRE SPRING 67-08 M17-75949
THE STUDY ON SALT BATH NITRIDING FOR STEELS. PT. 2. FATIGUE STRENGTH AND WEAR RESISTANCE 67-09 M17-76685
IMPROVING THE FATIGUE STRENGTH OF CHEMICALLY NICKEL-PLATED STEEL BY SURFACE HEATING WITH HIGH-FREQUENCY CURRENT 67-11 M10-81293
THE EFFECT OF THERMAL AND MECHANICAL FINAL TREATMENTS ON THE FATIGUE BEHAVIOR OF CHROMIZED BOLTS 67-12 M12-83148
THE EFFECT OF PREANNEALING ON THE HIGH-TEMPERATURE STRENGTH OF NICKEL AFTER THERMOMECHANICAL TREATMENT 67-12 M17-82344
EFFECT OF TEMPERING TEMPERATURE ON THE FATIGUE STRENGTH OF LONGITUDINAL AND TRANSVERSE SPECIMENS OF STEELS OF VARIOUS PURITY 67-12 M17-82842
INVESTIGATIONS OF THE EFFECT OF SURFACE TREATMENT ON THE FATIGUE PROPERTIES OF STEELS 67-12 M17-82843

FATIGUE STRENGTH, IMPURITY EFFECTS
THE EFFECT OF NONMETALLIC INCLUSIONS ON CERTAIN MATERIAL PROPERTIES OF STEEL 67-07 M17-73194
THE FATIGUE STRENGTH AND THE EFFECT OF NONMETALLIC INCLUSIONS ON THE ENDURANCE OF CASE-HARDENING STEELS 67-12 M17-82845

FATIGUE STRENGTH, LUBRICATION
ASPECTS OF LUBRICATION AFFECTING LIFE OF ROLLING BEARINGS 67-07 M17-73722

FATIGUE STRENGTH, PRECIPITATION
INTERACTION OF DISLOCATIONS AND PRECIPITATES IN QUENCH-AGED IRON-CARBON ALLOYS SUBJECTED TO CYCLIC STRESSING 67-06 M14-70420

FATIGUE STRENGTH, RADIATION EFFECTS
RADIATION EFFECTS ON CREEP RUPTURE AND FATIGUE STRENGTH OF PURE ALUMINUM 67-07 M17-72685
IN-REACTOR STUDIES OF LOW-CYCLE FATIGUE PROPERTIES OF A NUCLEAR PRESSURE VESSEL STEEL 67-07 M17-73393

FATIGUE STRENGTH, STRESS EFFECTS
INVESTIGATION ON THE FATIGUE BENDING STRENGTH OF A LATERALLY LOADED STEEL ROPE WIRE 67-02 M17-59706
INFLUENCE OF THE VARIOUS SHAPES OF STRESS SPECTRA ON FATIGUE STRENGTH OF MATERIALS 67-02 M17-59708
INFLUENCE OF RESIDUAL STRESSES ON FATIGUE STRENGTH OF 30KHGSA STEEL 67-02 M17-59773
INFLUENCE OF PLASTIC DEFORMATION, COLD TREATMENT AND AGING ON MECHANICAL PROPERTIES OF KH18N9T STAINLESS STEEL 67-04 M17-66374
ALTERNATE LOADING RESISTANCE OF HIGH-STRENGTH STRUCTURAL STEEL 67-04 M17-66430
LOW-CYCLE FATIGUE OF LARGE-DIAMETER BOLTS 67-05 M17-69701
STRENGTH OF STRUCTURAL STEELS DURING LOW-CYCLE LOADING AND THE RELATION TO STRESS CONCENTRATION 67-06 M17-70932
CAPACITY OF HIGH TENSILE STRUCTURAL STEEL FOR RESISTING ALTERNATING LOADS 67-07 M17-72689
INFLUENCE OF RESIDUAL STRESSES ON THE FATIGUE RESISTANCE OF 30KHGSA STEEL 67-08 M17-76131
FATIGUE STRENGTH OF WELDED JOINTS BETWEEN DISSIMILAR STEELS 67-09 M17-77237
THE EFFECT OF RESIDUAL STRESSES ON ALTERNATING FATIGUE BEHAVIOR 67-09 M17-77883
THE EFFECT OF EXPLOSIVE FORMING ON FATIGUE PROPERTIES 67-09 M17-77910
EFFECT OF PLASTIC DEFORMATION, CHILLING, AND AGING ON THE STRENGTH CHARACTERISTICS OF KH18N9T STEEL 67-11 M17-80976
THE EFFECT OF STRESS REVERSAL FREQUENCY ON THE FATIGUE STRENGTH OF STEEL 67-12 M17-82196

FATIGUE STRENGTH, TEMPERATURE EFFECTS
THE ELEVATED-TEMPERATURE STRENGTHS AND CORROSION-FATIGUE STRENGTHS OF NICKEL-COPPER ALLOY 67-02 M17-59723
TEMPERATURE DEPENDENCE OF THE MECHANICAL PROPERTIES, MICROSTRUCTURE AND STACKING FAULT ENERGY OF AN ARSENIC-CONTAINING ALUMINUM BRONZE OF THE CUAL15-TYPE 67-05 M17-69586
CREEP RUPTURE AND DYNAMIC STRENGTH TESTS OF TI ALLOYS TIALV4, TIAL6V4 AND TIAL9V3 AT TEMPERATURES OF 350 TO 500 C 67-08 M17-75324
TEMPERATURE DEPENDENCE OF HIGH-TEMPERATURE VACUUM TENSILE-FATIGUE LIFE AND DEFORMATION IN CU-AL ALLOY WITH 9 PER CENT AL 67-09 M17-77576
HIGH-TEMPERATURE MECHANICAL PROPERTIES OF TI-8 PER CENT AL-4 PER CENT CO ALLOY 67-09 M17-77988
ELEVATED-TEMPERATURE FATIGUE OF TZC MOLYBDENUM ALLOY UNDER HIGH-FREQUENCY AND HIGH-VACUUM CONDITIONS 67-12 M17-83062

FATIGUE STRENGTH, WELDING EFFECTS
WELD SURFACE CONTOUR VARIATIONS 67-02 M11-61648
TESTS FOR DETERMINING THE FATIGUE STRENGTH OF PURE BASIC WELD DEPOSIT, DEPOSITED WITHOUT WEAVING AND BY WEAVING 67-02 M17-59038
RELATION BETWEEN SUBSURFACE HARDNESS AND MECHANICAL BEHAVIOR IN WELDED ASSEMBLIES OF 52 STEEL 67-02 M17-59757
THE PRODUCTION OF REPRODUCIBLE WELDING DEFECTS AND THEIR EFFECT ON FATIGUE STRENGTH 67-02 M17-59812
FATIGUE STRENGTH OF TUBES BUTT WELDED USING A CERAMIC COATED BACKING MEMBER 67-09 M17-78152

FATIGUE TESTERS
SEE FATIGUE TESTING MACHINES

FATIGUE TESTING MACHINES
A CONSTANT-STRAIN FATIGUE TESTING MACHINE 67-02 M17-60233
DYNAMIC STRENGTH OF STEEL WIRE. PT. 5. A NEW DEVICE FOR TESTING STEEL WIRE FATIGUE 67-03 M17-65185

FATIGUE TESTING MACHINES

A MACHINE FOR LOW CYCLE HIGH-TEMPERATURE FATIGUE TESTING 67-03 M17-65315
ON THE FULL-SCALE AXLE FATIGUE TESTING MACHINE 67-03 M17-65826
ON THE STRENGTH OF AUSTENITIC STEELS DURING CYCLIC LOADING 67-04 M17-67381
FROM THE CASTING STAGE TO MECHANICS 67-05 M17-68914
FATIGUE APPARATUS FOR EXTREME HIGH VACUUM 67-06 M17-70550
VERY HIGH TEMPERATURE VACUUM TENSILE-FATIGUE TESTER OF ELECTRICAL CURRENT TRANSIT HEATING TYPE 67-06 M17-70816
IN-REACTOR STUDIES OF LOW-CYCLE FATIGUE PROPERTIES OF A NUCLEAR PRESSURE VESSEL STEEL 67-07 M17-73393
A METHOD OF INVESTIGATING LOW-CYCLE THERMAL FATIGUE 67-11 M17-80415

FATIGUE TESTS

FRACTOGRAPHIC EXAMINATION OF FATIGUE SPECIMENS OF DUCTILE IRON 67-01 M17-57441
THE GROWTH OF GRAIN BOUNDARY CAVITIES DURING HIGH TEMPERATURE FATIGUE 67-01 M17-57483
A FATIGUE TESTING MACHINE OF ROTARY-LOADING TYPE FOR LIQUID METAL ENVIRONMENT AT HIGH TEMPERATURE AND ITS APPLICATION TO STUDY OF FATIGUE STRENGTH OF LOW-CARBON STEEL IN MOLTEN LEAD AND ZINC 67-01 M17-57520
ON THE FATIGUE STRENGTH OF INDUCTION HARDENED LARGE-SIZE PRESS-FITTED SPECIMEN 67-01 M17-57587
RESEARCH ON THE RESISTANCE OF METALS TO ALTERNATING STRESSES 67-01 M17-57608
HIGH-SPEED, HIGH-TEMPERATURE TENSION APPARATUS FOR THE STUDY OF AEROSPACE MATERIALS 67-01 M17-57609
RESIDUAL STRESSES AND FATIGUE STRENGTH OF INDUCTION-HARDENED SHAFTS WITH TRANSITIONS IN CROSS SECTION 67-01 M17-57923
TENSION-COMPRESSION FATIGUE TESTS ON A CO-CR-W-NI ALLOY IN TEMPERATURE RANGE OF 800 TO 1200 C 67-01 M17-57925
THE ASSESSMENT OF WELDING DEFECTS BY FATIGUE TESTS 67-02 M11-60105
STRENGTH OF WELDED CRUCIFORM JOINTS OF ST. 3 STEEL DURING ARC WELDING 67-02 M11-61261
METHOD OF EVALUATING THE INFLUENCE OF PEAK LOADS ON THE FATIGUE STRENGTH OF LARGE SPECIMENS DURING ALTERNATE LOADING 67-02 M17-58832
RESEARCH ON THE FATIGUE STRENGTH OF PRESS-FITTED SPECIMENS 67-02 M17-58848
A NEW PROGRAM FATIGUE TESTING MACHINE 67-02 M17-58935
INVESTIGATION OF CONTACT FATIGUE DURING PRESSURE CYCLING 67-02 M17-59553
EXPERIMENTAL RESULTS ON ACCUMULATION DAMAGE IN REPEATED LOADING OF ALUMINIUM ALLOY BARS 67-02 M17-59709
RELATION BETWEEN SUBSURFACE HARDNESS AND MECHANICAL BEHAVIOR IN WELDED ASSEMBLIES OF 52 STEEL 67-02 M17-59757
EFFECT OF FATIGUE TRAINING ON STRESS-RUPTURE STRENGTH 67-02 M17-60075
TEMPERATURE DEPENDENCE OF HIGH-TEMPERATURE VACUUM TENSILE-FATIGUE LIFE AND DEFORMATION IN COPPER 67-02 M17-60145
A CONSTANT-STRAIN FATIGUE TESTING MACHINE 67-02 M17-60233
FATIGUE TESTING MATERIALS FOR BALL AND ROLLER BEARINGS 67-02 M17-60551
SURFACE CONDITION AND FATIGUE OF WIRE ROPE 67-02 M17-60586
THE CYCLIC STRAIN BEHAVIOR OF CRYSTALS OF ALUMINUM-4 WT PER CENT COPPER. PT. 2. LOW CYCLE FATIGUE 67-02 M17-60638
INVESTIGATION OF THE DIAGRAM OF FATIGUE FAILURE IN CONNECTION WITH THE EFFECT OF SURFACE-ACTIVE MEDIA 67-02 M17-60976
INFLUENCE OF SYNTHETIC COATINGS OF FATIGUE STRENGTH OF AVT1 ALUMINUM ALLOY TESTED IN AIR ATMOSPHERE 67-02 M17-60979
TEMPERATURE-TIME DEPENDENCE OF THE STRENGTH OF ALUMINIUM UNDER STATIC AND PERIODIC LOADS 67-02 M17-61677
DEVELOPMENT OF SLIP BANDS DURING FATIGUE TESTING OF STEEL SPECIMENS 67-02 M17-61750
ROTATING BENDING FATIGUE BEHAVIOR OF AV22 TN AL ALLOY ANODIZED SPECIMEN 67-02 M17-62290
CORROSION FATIGUE OF STEEL DURING CYCLIC BENDING AND TORSION 67-02 M18-60967
INFLUENCE OF THE LENGTH OF SPECIMEN ON CORROSION FATIGUE RESISTANCE AT ALTERNATIVE LOADING 67-02 M18-60968
DETERMINING THE THERMAL PLASTICITY OF STEEL DURING CYCLIC TENSILE TESTING FOLLOWED BY STRESS RELAXATION 67-03 M17-65072
LOW-ENDURANCE FATIGUE OF AN ALUMINIUM ALLOY AND A STAINLESS STEEL IN PLANE BENDING AT AMBIENT AND ELEVATED TEMPERATURES 67-03 M17-65172
STUDY ON TORSIONAL FATIGUE STRENGTHS OF RECTANGULAR AND CIRCULAR CROSS SECTIONS OF STEEL 67-03 M17-65195
BRITTLE FRACTURE OF FULL SCALE STRUCTURES DAMAGED BY FATIGUE 67-03 M17-65309
EFFECTS OF SEVERAL FACTORS ON THERMAL FATIGUE 67-03 M17-65313
THERMAL LOADING DURING CYCLIC TESTING 67-03 M17-65605
CERTAIN CHARACTERISTICS OF THE BEHAVIOR OF AUSTENITIC STEELS DURING ALTERNATE LOADING 67-03 M17-65783
INFLUENCE OF SOME DEFECTS IN STEELS UPON THE FATIGUE STRENGTH 67-03 M17-65824
VARIABLE STRESS CYCLE FATIGUE OF LARGE BUTT-WELDED SPECIMENS 67-04 M11-67631
INVESTIGATION CONCERNING INFLUENCE OF METAL SPRAYING ON BENDING FATIGUE STRENGTH OF CARBON STEEL SHAFTS 67-04 M11-68015
SMALL-ANGLE X-RAY SCATTERING METHOD OF STUDYING THE STRUCTURE OF NICKEL UNDER ALTERNATING LOAD 67-04 M13-67638
EQUIBIAXIAL LOW-CYCLE FATIGUE PROPERTIES OF TYPICAL PRESSURE-VESSEL STEELS 67-04 M17-66233
INVESTIGATIONS OF THE RESISTANCE TO FAILURE OF THE NICKEL BEARING ALUMINIUM ALLOYS 67-04 M17-66605
INFLUENCE OF TEMPER ON THE FATIGUE STRENGTH OF CARTRIDGE BRASS --ALLOY 260-- SHEET 67-04 M17-66680
ON THE FATIGUE OF TENSILE PRESTRAINED MILD STEEL UNDER REPEATED ALTERNATING COMBINED STRESSES 67-04 M17-66898
EFFECT OF LOAD CYCLING BELOW THE FATIGUE LIMIT ON THE MECHANICAL PROPERTIES OF CARBON STEEL 67-04 M17-66950
PRACTICAL APPLICATION OF THE PROBABILITY THEORY TO FATIGUE TESTS OF ALUMINUM 67-04 M17-67126
FATIGUE STRENGTH OF SOME HEAT TREATED ALLOY STEELS 67-04 M17-67153
FATIGUE OF ALLOYS AT ELEVATED TEMPERATURES IN A STATISTICAL ASPECT 67-04 M17-67232
X-RAY INVESTIGATION OF 20KH ALLOY STEEL SUBJECTED TO LOAD CYCLING AT ROOM AND LOW TEMPERATURES 67-04 M17-67233
FATIGUE STRENGTH CRITERIA OF METALS AND ALLOYS BASED ON ENERGY DISSIPATION 67-04 M17-67819
FATIGUE STRENGTH OF ALUMINUM ALLOYS 67-04 M17-68036
METHOD OF EVALUATING THE EFFECT OF PEAK LOADS ON THE FATIGUE STRENGTH OF LARGE-SCALE SPECIMENS UNDER VARIABLE LOAD 67-04 M17-68078
ACCELERATED DETERMINATION OF THE FATIGUE LIMIT OF STEEL WITH GALVANIC COATINGS 67-04 M17-68080
SURFACE AUSFORMING --ON 40KH STEEL-- 67-05 M17-68202
INFLUENCE OF FERRITE ON THE FATIGUE RESISTANCE OF 40KH STEEL 67-05 M17-68371
PROPAGATION OF CRACKS IN PLAIN AND NOTCHED SPECIMENS UNDER REPEATED PLASTIC STRAIN 67-05 M17-68462
AN EXPERIMENTAL STUDY ON THE TORSIONAL FATIGUE STRENGTH OF HOLLOW SPECIMENS WITH DRILL HOLES 67-05 M17-68463
TORSIONAL FATIGUE TEST OF MILD STEEL CONTAINING NONMETALLIC INCLUSIONS 67-05 M17-68464
X-RAY INVESTIGATION ON THE DEFORMATION AND FATIGUE FRACTURE OF SPRING STEEL IN PLANE BENDING 67-05 M17-68465
X-RAY INVESTIGATION ON FATIGUE FRACTURE OF A NOTCHED STEEL SPECIMEN. --INVESTIGATION ON FATIGUE PROCESS OF COLD ROLLED LOW-CARBON STEEL SPECIMEN BY MEANS OF AN X-RAY MICROBEAM DIFFRACTION TECHNIQUE. PT. 2.-- 67-05 M17-68466
THE RESIDUAL STRESS BEHAVIOR IN FATIGUE PROCESS OF HIGH TENSILE STRENGTH STEELS. PT. 1 67-05 M17-68530

X-RAY INVESTIGATION ON FATIGUE FRACTURE OF NOTCHED STEEL SPECIMEN 67-05 M17-68532
INFLUENCE OF VACUUM POURING ON SOME PHYSICAL AND MECHANICAL PROPERTIES OF STRUCTURAL STEEL 67-05 M17-69009
STUDY OF THE DEVELOPMENT OF FATIGUE CRACKS IN STEELS SUBJECTED TO TEMPER EMBRITTLEMENT 67-05 M17-69047
INVESTIGATION OF TORSIONAL AND HIGH-TEMPERATURE FATIGUE STRENGTH OF EI437B STEEL 67-05 M17-69259
HIGH-TEMPERATURE MICROPROFILE APPEARING ON THE SURFACE OF IRON SPECIMENS DURING FATIGUE LOADING 67-05 M17-69656
FATIGUE TESTING OF AN AL-MG-MN ALLOY PRESSURE VESSEL 67-05 M17-69714
EFFECT OF CALORIZING ON FATIGUE AND CORROSION FATIGUE OF 45 CARBON STEEL 67-05 M18-69005
EFFICIENCY OF THE USE OF SURFACE HARDENING FOR INCREASING FATIGUE AND CORROSION FATIGUE RESISTANCE OF SOME STAINLESS STEELS 67-05 M18-69014
STUDY ON THE PITTING IN ROLLING CONTACT. PT. 1. ON THE MECHANISM OF THE PITTING OCCURRENCE 67-05 M18-69371
IMPROVING THE EFFICIENCY OF A TITANIUM WELDED JOINT 67-06 M11-70389
FATIGUE STRENGTH OF FRICTION WELDED JOINTS 67-06 M11-71847
RELIABILITY AND LIFE OF RECLAIMED CRANKSHAFTS OF TRACTOR MOTORS 67-06 M11-72310
FATIGUE FRACTURE IN COPPER AND THE CU-8WT. PER CENT AL ALLOY AT LOW TEMPERATURE 67-06, M17-69947
AN ESTIMATE OF THE DAMAGE TO COMMERCIAL IRON DURING FATIGUE TESTING AT 20 TO 800 C 67-06 M17-69980
LOW-CYCLE FATIGUE TESTS UNDER REVERSED TENSION/COMPRESSION STRESSES WITH CONSTANT TRUE-STRAIN AMPLITUDE 67-06 M17-70033
THE ESTIMATION OF FATIGUE STRENGTH OF STEELS BY CORRELATION FORMULAS 67-06 M17-70034
EFFECT OF HIGH-TEMPERATURE THERMOMECHANICAL WORKING ON THE CYCLIC BEHAVIOR OF HIGH-CARBON STEELS 67-06 M17-70109
RESEARCH INTO THE PROPERTIES OF LOW-NICKEL AND NICKEL-FREE CASE-HARDENABLE STEELS FOR HIGHLY STRESSED GEARWHEELS 67-06 M17-70346
CALCULATING THE FATIGUE STRENGTH OF WELDED JOINTS TAKING STRESS CONCENTRATORS INTO CONSIDERATION 67-06 M17-70385
VERY HIGH TEMPERATURE VACUUM TENSILE-FATIGUE TESTER OF ELECTRICAL CURRENT TRANSIT HEATING TYPE 67-06 M17-70816
THERMAL FATIGUE UNDER MULTIAXIAL THERMAL STRESSES IN THE CASE OF SPHERCIDAL GRAPHITE CAST IRON 67-06 M17-70817
RAPID METHOD OF ESTIMATING ROTATING BENDING FATIGUE LIMITS BY CAPACITANCE THERMOMETER FOR ROTATOR 67-06 M17-70818
INFLUENCE OF METALLURGICAL DEFECT SIZE ON THE FATIGUE PROPERTIES OF CAST STEEL 67-06 M17-70822
EFFECT OF IRRADIATION ON THE HIGH-STRAIN FATIGUE BEHAVIOUR OF A LOW-CARBON AND A LOW-ALLOY STEEL 67-06 M17-71334
EFFECT OF PRELIMINARY HYDROGEN ABSORPTION AND CORROSION ON THE LOW-CYCLE FATIGUE OF STEEL 67-06 M17-71364
THE INFLUENCE OF DIFFERENT MACHINING PROCESSES ON THE MECHANICAL AND CORROSION-CHEMICAL BEHAVIOR OF A HEAT TREATED STEEL 67-06 M17-71507
INFLUENCE OF THE TYPE OF LOADING ON THE RESULTS OF FATIGUE TESTS ON STEELS 67-06 M17-71511
INFLUENCE OF RESIDUAL STRESSES ON FATIGUE STRENGTH OF RECLAIMED CRANKSHAFTS 67-06 M17-71651
STUDIES ON THE THERMAL FATIGUE UNDER CONDITIONS OF TRANSIENT TEMPERATURE GRADIENT IN CROSS-SECTION 67-06 M17-72070
A STUDY ON THE ANALYSIS OF FATIGUE FRACTURE 67-06 M17-72146
EFFECT OF CONSTRUCTION FACTORS ON THE LONGEVITY DISTRIBUTION OF LIGHT ALLOYS 67-07 M17-72867
DETERMINATION OF THE THERMAL PLASTICITY OF STEEL BY A TEST WITH CYCLIC TENSION FOLLOWED BY STRESS RELAXATION 67-07 M17-72972
INFLUENCE OF SURFACE-ACTIVE MEDIUM ON LOW CYCLE FATIGUE STRENGTH OF STEEL 67-07 M17-73174
ON THE CHANGES OF SOME PROPERTIES OF STEEL DURING ALTERNATING STRESSES 67-07 M17-73708
MICROSTRUCTURAL CHARACTERISTICS OF HIGH-TEMPERATURE FATIGUE FRACTURE OF 40KH12N8G8MV AUSTENITIC STEEL, SUBJECTED TO AUSFORMING 67-08 M13-74639
THERMAL METHOD OF LOADING IN INTERMITTENT STATIC TESTING 67-08 M17-74530
THE INFLUENCE OF THE INTERMEDIATE PRINCIPAL STRESS ON FATIGUE UNDER TRIAXIAL STRESSES 67-08 M17-74682
ACCELERATED FATIGUE TESTING OF LIGHT ALLOYS 67-08 M17-75352
BEHAVIOR OF MILD STEEL DURING TESTING BY REPEATED-STATIC BENDING LOAD 67-08 M17-75353
RESISTANCE OF CASE-HARDENED STEEL TO CONTACT FATIGUE 67-08 M17-76001
SURFACE LAYERS AND WEAR RESISTANCE OF SHKH15 STEEL TO ROLLING FRICTION 67-08 M17-76007
FATIGUE TEST PRACTICE IN CONNECTION WITH ELEMENTS. THE USEFULNESS OF TORSIONAL STRESS 67-08 M17-76232
MATERIAL TESTING BY ULTRASONICS 67-08 M19-75599
AN IMPROVEMENT TO WELDED JOINTS IN TITANIUM 67-09 M11-78089
THE MACROMECHANISM OF FATIGUE WHEN A CONSTANT COMPONENT IS SUPERIMPOSED ON AN ALTERNATING DEFORMATION 67-09 M17-76560
DEFORMATION PHENOMENA AND CRACK FORMATION IN ROUND SPECIMENS OF A HARDENED CR-MO STEEL IN ROTATING BENDING FATIGUE TESTING 67-09 M17-77086
LOW CYCLE FATIGUE CRACK PROPAGATION IN A201B, A302B, AND A517F PRESSURE VESSEL STEELS 67-09 M17-78148
RUPTURE TESTING BALL BEARING BALLS BY THE HIGH-CENTRIFUGAL FIELDS METHOD 67-09 M17-78160
FATIGUE RESISTANCE OF WELDED LARGE-SIZE DIESEL CRANKSHAFTS 67-10 M11-78409
ACCUMULATION OF FATIGUE DAMAGE BY GRADE 45 STEEL UNDER PEAK LOADS 67-10 M17-78382
FATIGUE TEST ON LARGE-SIZED TESTPIECES. EFFECT OF VARIABLE LOAD AND RELATION BETWEEN STRESS CONCENTRATION FACTOR AND MINIMUM STRESS AND MAXIMUM STRESS 67-10 M17-78657
DETERMINATION OF THE NOTCH EFFECT OF WELD DEFECTS IN FATIGUE TESTING 67-10 M17-78778
METHOD OF INCREASING THE ENDURANCE OF COMPRESSION SPRINGS 67-10 M17-78822
CUMULATIVE DAMAGE UNDER BIAXIAL FATIGUE STRESS 67-10 M17-79174
INFLUENCE OF THE STRUCTURAL STATE ON THE SHORT-TERM CREEP AND DESTRUCTION OF AUSTENITIC STEEL 67-10 M17-79227
INFLUENCE OF RESIDUAL STRESSES ON THE FATIGUE STRENGTH OF CRANKSHAFTS AFTER REPAIR 67-10 M17-79619
LOOKING FOR THE WHY OF FRACTURE 67-10 M17-79782
THE RELIABILITY AND LIVES OF BUILT UP CRANKSHAFTS FOR VEHICLE AND TRACTOR ENGINES 67-11 M11-81582
CHARACTERISTICS OF FATIGUE DIAGRAMS IN CONDITIONS OF FRETTING CORROSION 67-11 M17-80584
IMPROVEMENT OF FATIGUE LIFE BY DISPERSAL OF CYCLIC STRAIN 67-11 M17-81528
HIGH-TEMPERATURE METALLOGRAPHY 67-12 M13-83522
ANISOTROPY OF FATIGUE RESISTANCE OF METALS 67-12 M17-81888
INFLUENCE OF LOADING FREQUENCY OF ENDURANCE OF V95 ALUMINUM ALLOY 67-12 M17-81889
ON THE APPLICATION OF THE PROT METHOD TO FATIGUE TESTS OF LIGHT METAL ALLOYS 67-12 M17-81890
USE OF ACCELERATED TEST METHODS FOR DETERMINING THE FATIGUE LIMIT OF D16T ALUMINUM ALLOY 67-12 M17-81891
FRACTOGRAPHIC ANALYSIS OF SPECIMENS SUBJECTED TO CYCLIC STATIC TENSION 67-12 M17-81892
STUDY OF THE KINETICS OF FATIGUE CRACK DEVELOPMENT IN STEELS SUBJECT TO TEMPERING BRITTLENESS 67-12 M17-81998
CORRELATION OF FATIGUE LIMIT WITH TRUE STRESS--TRUE STRAIN BEHAVIOR 67-12 M17-82145
INFLUENCE OF STRUCTURAL FACTORS ON THE DURABILITY DISTRIBUTION OF LIGHT ALLOYS 67-12 M17-82175
THE EFFECT OF MACHINING ON THE FATIGUE STRENGTH OF KH17N2 AND KH17N5M3 --SN-3-- STEELS 67-12 M17-82197

FATIGUE TESTS
A CHAMBER FOR TESTING ROTATING-BEAM-TYPE FATIGUE SPECIMENS IN HOT STEAM AND AIR 67-12 M17-82198
EFFECT OF LOCAL STRENGTHENING ON FATIGUE PROPERTIES OF NOTCHED ALUMINIUM ALLOY THIN-SHEET STRUCTURES 67-12 M17-82539
COMPARISON OF FATIGUE PROPERTIES OF SINGLE CRYSTALS AND POLYCRYSTALS 67-12 M17-82542
STRESS-STRAIN CURVES UNDER VARIABLE STRESSES 67-12 M17-82828
FATIGUE STRENGTH UNDER AXIAL LOADING. PT. 5. STRENGTH OF U-SHAPED BELLOWS 67-12 M17-82829
LOW STRAIN RATE, HIGH STRAIN FATIGUE OF ALUMINUM AS A FUNCTION OF TEMPERATURE 67-12 M17-82855
FATIGUE OF AN ALUMINUM ALLOY IN ULTRA-HIGH VACUUM AND AIR 67-12 M17-82857
FAILURE MODES IN NICKEL FATIGUED IN VACUUM AS A FUNCTION OF TEMPERATURE AND PURITY 67-12 M17-82976
FATIGUE OF METALS--WHERE IT STANDS TODAY 67-12 M17-83236
HOW VACUUMING AFFECTS THE QUALITY OF BALL BEARING STEEL 67-12 M17-83456
A STUDY OF FATIGUE WITHIN THE FRAMEWORK OF THE KINETIC CONCEPT OF FRACTURE 67-12 M17-83485
THE EFFECTS OF ATMOSPHERE ON FATIGUE CRACK PROPAGATION 67-12 M18-82827
BORON STEELS FOR FASTENERS 67-12 M20-81969
FATIGUE TESTS, ACOUSTIC MEASUREMENT
VARIATION OF RESIDUAL STRESS IN THE FATIGUE PROCESS OF INDUCTION HARDENED STEEL 67-05 M17-68531
FATIGUE TESTS, RADIATION EFFECTS
EXTREMES IN ENVIRONMENTAL TESTING 67-11 M17-81239
FATTY ACIDS, LUBRICANTS
TESTING THE SUITABILITY OF BOUNDARY-ACTIVE LUBRICANTS FOR COLD WORKING 67-07 M07-72545
FAULTS /STACKING/
SEE STACKING FAULTS
FEEDERS
METALLURGICAL PRINCIPLES OF FEEDING NONFERROUS CASTINGS 67-06 M06-71896
IMPROVING THE QUALITY OF INGOTS BY PERFECTING THE CONFIUGRATION OF FEEDER HEADS 67-08 M04-76274
FEEDING TECHNIQUES FOR AL ALLOYS WITH EXTENSIVE CONTRACTION DURING SOLIDIFICATION AND MAINLY ENDOGENIC SOLIDIFICATION 67-08 M06-75677
IMPROVING HOT TOP DESIGN FOR BETTER QUALITY INGOTS 67-10 M04-79267
FEEDING
METALLURGICAL PRINCIPLES OF FEEDING NONFERROUS CASTINGS 67-06 M06-71896
MECHANISM FOR FEEDING PIPES INTO ROLLING MILLS 67-09 M07-76860
FENCES, CORROSION
THE EVALUATION OF CORROSION PROBLEMS. PT. 3 67-10 M18-79297
FERMI ENERGY
SEE FERMI SURFACE
FERMI LEVEL
SEE FERMI SURFACE
FERMI SURFACE
DE-HAAS-VAN ALPHEN EFFECT IN FERROMAGNETIC NICKEL 67-01 M16-57554
THE FERMI SURFACE OF WHITE TIN 67-01 M16-58631
HIGH-FIELD DE HAAS-VAN ALPHEN EFFECT IN RHENIUM 67-01 M16-58755
THEORY OF THE GALVANOMAGNETIC PROPERTIES OF MAGNESIUM AND ZINC 67-02 M15-60766
INVESTIGATION OF GALVANOMAGNETIC PROPERTIES OF HYDROGENATED PALLADIUM SINGLE CRYSTALS 67-02 M15-61118
CYCLOTRON ABSORPTION IN N-TYPE LEAD TELLURIDE 67-02 M16-59473
BAND STRUCTURE AND FERMI SURFACE FOR RHENIUM 67-02 M16-60762
FERMI SURFACE OF COPPER 67-02 M16-60769
DIRECT AND CORE-POLARIZATION CONTRIBUTIONS TO THE KNIGHT SHIFT IN METALLIC ALUMINUM 67-02 M16-61568
ELECTRONIC STRUCTURE OF MERCURY 67-03 M16-65030
QUANTUM OSCILLATIONS DUE TO HIGHER LYING ELECTRON BANDS IN BISMUTH 67-03 M16-65144
THE FERMI SURFACE OF TIN TELLURIDE--SHUBNIKOV-DE HAAS EFFECT 67-04 M16-66771
EXPERIMENTAL DETERMINATION OF FERMI SURFACE IN PURE AND DOPED ARSENIC THROUGH DE HAAS-VAN ALPHEN EFFECT 67-04 M16-66793
NEW METHODS FOR DE HAAS-SHUBNIKOV MEASUREMENTS 67-04 M16-67103
POSITRON ANNIHILATION IN COPPER-ALUMINIUM ALLOY 67-04 M16-67483
LONG PERIOD STACKING ORDER IN CLOSE PACKED STRUCTURES OF METALS 67-05 M14-68275
INVESTIGATION OF THE FERMI SURFACE AND OF CARRIER VELOCITIES IN INDIUM BY THE CYCLOTRON RESONANCE METHOD 67-05 M16-69027
DE HAAS-VAN ALPHEN EFFECT IN ANTIMONY AT VERY LOW TEMPERATURES 67-05 M16-69029
ANISOTROPY OF THE ULTRASONIC ATTENUATION IN METALS 67-05 M16-69757
MAGNETORESISTANCE OF CRYSTALLINE MERCURY 67-06 M15-69913
DE HAAS-VAN ALPHEN EFFECT AND FERMI SURFACE IN ARSENIC 67-06 M16-69918
THE FERMI SURFACE OF STRONTIUM 67-06 M16-70470
SCREENING-ENHANCED SHUBNIKOV-DE HAAS OSCILLATIONS IN SB-DOPED GRAY TIN 67-06 M16-71224
EFFECT OF A PERIODIC LATTICE POTENTIAL ON THE OPTICAL PROPERTIES AND OTHER INTEGRAL CHARACTERISTICS OF CUBIC POLYVALENT METALS 67-06 M16-71828
INTERNAL DEFECT PHENOMENA IN TE 67-07 M16-73833
GALVANOMAGNETIC PROPERTIES OF SINGLE-CRYSTAL ANTIMONY BETWEEN 77 AND 273 K 67-07 M16-74060
OPTICAL PROPERTIES AND FERMI SURFACE OF PALLADIUM 67-08 M15-74630
ON THE ELECTRONIC STRUCTURE OF BISMUTH AND ITS DILUTE ALLOYS 67-08 M16-74430
LOW-FIELD DE HAAS-VAN ALPHEN STUDY OF THE FERMI SURFACE OF ALUMINUM 67-08 M16-74660
FERMI SURFACE OF MAGNESIUM. PT. 1. MAGNETOACOUSTIC ATTENUATION 67-08 M16-74663
DE HAAS-VAN ALPHEN AND GALVANOMAGNETIC EFFECT IN BI AND BI-PB ALLOYS 67-08 M16-74666
ROLE OF THE PELTIER EFFECT IN THE DISPLACEMENT OF GRAIN BOUNDARIES IN METAL IN AN ELECTRICAL FIELD 67-09 M14-78011
ELECTRONIC BAND STRUCTURES OF PLUTONIUM AND ITS MONOCARBIDE 67-09 M16-76317
OPTICAL PROPERTIES OF THE INTERMETALLIC COMPOUNDS AUAL2, AUGA2 AND AUIN2 67-10 M15-78907
NONDIRECT PROCESSES AND OPTICAL PROPERTIES OF METALS 67-10 M15-79148
DEFORMATION OF THE FERMI SURFACE OF BISMUTH AT PRESSURES UP TO 8 KBAR 67-10 M15-79461
MEASUREMENT OF THE SHUBNIKOVDE HAAS EFFECT IN GRAPHITE AT PRESSURES UP TO 8 KBAR 67-10 M15-79466
SIMPLE METALS AND PSEUDOPOTENTIAL THEORY 67-10 M16-78301
THE ELECTRONIC STRUCTURES OF TRANSITION AND NOBLE METALS 67-10 M16-78304
ELECTRONIC STRUCTURE AND PROPERTIES OF PALLADIUM AND ITS ALLOYS 67-10 M16-78723
ENERGY BANDS IN FERROMAGNETIC NICKEL 67-10 M16-78737
PHOTOCONDUCTIVE DECAY IN N-TYPE POLYCRYSTALLINE FILMS OF INDIUM ARSENIDE 67-10 M16-79170
ELECTRONIC STRUCTURE OF ZIRCONIUM 67-10 M16-79416
ESTIMATE OF THE NUMBER OF ELECTRONS IN THE VALENCE BAND FROM X-RAY EMISSION SPECTRA 67-11 M13-80180
USE OF THE SCRATCH METHOD FOR STUDYING ANISOTROPY IN THE PROPERTIES OF CERTAIN CRYSTALS WITH BONDS OF A PREDOMINANTLY COVALENT CHARACTER 67-11 M15-80171
MAGNETIC BREAKDOWN, FERMI SURFACE, AND GALVANOMAGNETIC PROPERTIES IN ANTIFERROMAGNETIC METALS 67-11 M15-80658
A REVIEW OF THE PHYSICAL PROPERTIES OF SOME PRIMARY SOLID SOLUTIONS, AND THEIR INTERPRETATION 67-11 M15-81109
REPORT ON THE DETERMINATION OF THE FERMI SURFACE OF ORDERED BETA PRIME PHASES 67-11 M15-81113
OPTICAL PROPERTIES OF INDIUM 67-11 M15-81369
MAGNETOACOUSTIC STUDY OF THE RHENIUM FERMI SURFACE 67-11 M15-81385
MEASUREMENTS OF THE THERMAL CONDUCTIVITY OF SINGLE CRYSTALS OF POTASSIUM BETWEEN 2.5 AND 40 K 67-11 M15-81388
LATTICE PARAMETER ANOMALIES IN INDIUM-CADMIUM SOLID SOLUTIONS 67-11 M16-80187

TYPE-1 SUPERCONDUCTIVITY IN MOLYBDENUM
67-11 M16-80627
THE TILT ANGLE OF THE FERMI ELLIPSOIDS IN ANTIMONY-TIN ALLOYS 67-11 M16-80779
PARAMAGNETIC SUSCEPTIBILITY IN THE V3SI TYPE OF COMPOUNDS IN THE NORMAL STATE
67-11 M16-81390
V51 KNIGHT SHIFT IN THE V3SI TYPE OF COMPOUNDS IN THE NORMAL STATE 67-11 M16-81391
SELF-CONSISTENT BAND STRUCTURE OF ALUMINUM BY AN AUGMENTED-PLANE-WAVE METHOD 67-11 M16-81394
BAND STRUCTURE OF DOPED BISMUTH USING THE SHUBNIKOV-DE HAAS EFFECT 67-11 M16-81482
ELECTRON ENERGY LEVELS IN CU3AU
67-11 M16-81483
HIGH-FIELD MAGNETORESISTANCE OF ORDERED BETA BRASS
67-12 M15-82528
ITINERANT ANTIFERROMAGNETISM IN CHROMIUM ALLOYS
67-12 M15-82905
FIELD-INDUCED CHANGES IN THE BAND STRUCTURE AND FERMI SURFACE OF NICKEL 67-12 M16-82200

FERMI SURFACE, ALLOYING EFFECTS
ELECTRONIC STRUCTURE OF ALPHA BRASS
67-05 M16-69801

FERMI SURFACE, COMPOSITION EFFECTS
DIFFUSION THERMOPOWER AND THE FERMI SURFACE IN DILUTE SILVER-GOLD ALLOYS 67-07 M15-72843

FERMI SURFACE, PRESSURE EFFECTS
PRESSURE DEPENDENCE OF THE LOW-FREQUENCY DE HAAS-VAN ALPHEN OSCILLATIONS IN ZN
67-02 M16-60764
EFFECT OF HIGH PRESSURE ON THE FERMI SURFACE OF ALUMINUM 67-Q3 M16-65029
FERMI SURFACE OF PB UNDER HYDROSTATIC PRESSURE
67-05 M16-69809
FERMI SURFACE OF IN UNDER HYDROSTATIC PRESSURE
67-10 M16-79361
EFFECT OF HYDROSTATIC PRESSURE ON THE FERMI SURFACE OF BE 67-11 M16-80186

FERMI SURFACE, SIZE EFFECTS
FERMI SURFACE IN GALLIUM DTERMINED FROM THE RADIO-FREQUENCY SIZE EFFECT 67-07 M16-73943

FERMI SURFACE, STRESS EFFECTS
THE EFFECT OF TENSION ON THE FERMI SURFACES OF THE NOBLE METALS 67-09 M16-77525

FERRIC COMPOUNDS
SEE IRON COMPOUNDS

FERRITE
THE MUTUAL EFFECTS OF TRANSFORMATION REACTIONS IN HEAT TREATMENTS CARRIED OUT IN A FLUCTUATING TEMPERATURE FIELD 67-02 M14-59915
INFLUENCE OF FERRITE FORM ON REFINEMENT OF STEEL IN FRACTURE 67-02 M14-62272
PROPERTIES OF PEARLITIC AND ANNEALED FERRITIC NODULAR-IRONS ALLOYED WITH COPPER
67-02 M17-60883
CRACKING AND FERRITE CONTENT IN AUSTENITIC STAINLESS WELDS 67-04 M11-66249
EFFECT OF MANGANESE ON THE STRUCTURE AND PROPERTIES OF NONMAGNETIC STAINLESS STEELS
67-04 M15-67974
INFLUENCE OF FERRITE ON THE FATIGUE RESISTANCE OF 40KH STEEL 67-05 M17-68371
STRUCTURE OF AUSTENITIC MN-AL WELD METAL
67-06 M13-72302
DILATOMETRIC METHOD OF INVESTIGATING FERRITE FORMATION IN PIG IRON CONTAINING SPHEROIDAL GRAPHITE 67-06 M14-70200
APPLICATION OF ELECTRON BEAM MICROANALYSIS IN CORROSION INVESTIGATIONS 67-07 M18-73118
FERRITE IN AUSTENITIC STAINLESS STEEL WELDS
67-10 M13-79478
THE STRUCTURE OF AUSTENITIC MANGANESE.. ALUMINIUM WELD METAL 67-11 M13-81574
CRYSTALLOGRAPHY OF THE PRECIPITATION OF FERRITE ON AUSTENITE GRAIN BOUNDARIES IN A CO PLUS 20 PER CENT FE ALLOY 67-11 M13-81588
STUDY ON THE MECHANISM OF BAINITE REACTION. PT. 2. TRANSMISSION ELECTRON MICROSCOPE OBSERVATION OF THE PROCESS OF BAINITE REACTION IN AN FE-NI-C ALLOY 67-11 M14-80951
EVOLUTION DURING TEMPERING AT A SLOWLY RISING TEMPERATURE OF THE MATRIX OF A 2 PER CENT-C IRON ALLOY, PREVIOUSLY SUBJECTED TO A MARTENSITIC QUENCH 67-11 M14-81560
FLUX LINKAGE METHOD ACCURATELY MEASURES FERRITE IN STAINLESS CASTINGS 67-11 M19-81195

FERRITE, CHEMICAL ANALYSIS
THE DETERMINATION OF THE FERRITE CONTENT OF AUSTENITIC STEEL WELDS 67-04 M19-68002

FERRITE, COMPOSITION EFFECTS
INTRODUCTION TO THE METALLURGY OF CAST HEAT-RESISTING ALLOYS 67-06 M17-70534

FERRITE, CRYSTAL GROWTH
INFLUENCE OF FERRITE ON CRYSTALLIZATION OF AUSTENITIC DEPOSIT WELDED METAL AND FORMATION OF HOT CRACKS 67-06 M11-71641
INFLUENCE OF FERRITE ON THE CRYSTALLISATION OF AUSTENITIC WELD METAL AND THE FORMATION OF HOT CRACKS DURING WELDING 67-10 M11-79608

FERRITE, CRYSTAL STRUCTURE
CRYSTALLOGRAPHIC CHARACTERISTICS OF THE IRON PHOSPHIDE --FE3P-- PRECIPITATE IN FERRITE
67-01 M14-58340

FERRITE, ELECTRON DIFFRACTION
AN ELECTRON DIFFRACTION STUDY OF PEARLITE. PT. 2
67-06 M13-71825

FERRITE, HEATING EFFECTS
THE EFFECT OF DELTA-FERRITE ON THE IMPACT STRENGTH OF THE WELD METAL IN JOINTS IN TRANSITIONAL STEELS 67-04 M17-66463

FERRITE, MECHANICAL PROPERTIES
STUDY OF THE MECHANICAL PROPERTIES OF SILICON-CONTAINING FERRITE. THE INFLUENCE OF CARBON
67-05 M17-69112
THE STRENGTH OF FERRITE AND OF MARTENSITE AS FUNCTIONS OF COMPOSITION, TEMPERATURE AND STRAIN RATE 67-12 M17-83063

FERRITE, METALLOGRAPHY
NEW METALLOGRAPHIC METHOD FOR REVEALING MAGNETIC PATTERNS IN FERRITE 67-02 M13-60749

FERRITE, MICROSTRUCTURE
EXHIBITING THE FERRITE STRUCTURE IN 18-8 STAINLESS STEELS BY ELECTROLYTIC POLISHING
67-02 M13-60748

FERRITE, PHASE TRANSFORMATIONS
EFFECT OF THE CHEMICAL COMPOSITION ON THE CONTENT OF DELTA-FERRITE AND TRANSFORMATION TEMPERATURE OF INOCULATED 12 PER CENT CHROMIUM STEELS
67-06 M14-70325

FERRITE, PRECIPITATION HARDENING
THE FERRITE STRENGTHENING MECHANISM ON THE HEATING OF A CAST CARBON STEEL INOCULATED WITH ALUMINIUM
67-05 M14-68251

FERRITE, SOLID SOLUBILITY
DETERMINING THE SOLUBILITY OF CARBON IN FERRITE BY THE RADIOMETRIC METHOD 67-04 M19-67090

FERRITE, SOLUBILITY
DETERMINATION OF THE SOLUBILITY OF CARBON IN FERRITE BY A RADIOMETRIC METHOD
67-09 M14-78070

FERRITE, X RAY ANALYSIS
THE PROBLEM OF FERRITE DETERMINATION IN AUSTENITIC WELDS 67-02 M19-59968

FERRITES
MAGNETS MADE OF THE PERMANENT MAGNET MATERIALS OXIT AND OXILIT FOR THE FIELD EXCITATION OF D-C MOTORS 67-08 M20-75068

FERRITES, CRYSTAL GROWTH
CHEMICAL VAPOR GROWTH OF SINGLE-CRYSTAL MAGNETIC OXIDE FILMS 67-07 M14-73523
GROWTH OF COMPLEX SINGLE-CRYSTAL HEXAGONAL FERRITES 67-08 M14-75998

FERRITES, CRYSTAL LATTICES
X-RAY DIFFRACTION STUDY OF CERTAIN MIXED FERRITES
67-02 M13-61666

FERRITES, ELECTRICAL PROPERTIES
THE EFFECT OF COBALT SUBSTITUTION ON ELECTRICAL CONDUCTION IN NICKEL FERRITE 67-01 M15-58781

FERRITES, HEAT TREATMENT
EFFECT OF ION DIFFUSION IN HEAT TREATMENT AND THERMOMAGNETIC TREATMENT ON MAGNETOCRYSTALLOGRAPHIC ANISOTROPY IN NICKEL-COBALT FERRITE SINGLE CRYSTALS
67-02 M15-59933

FERRITES, MAGNETIC PROPERTIES
DOMAIN STRUCTURE OF HEXAGONAL FERRIMAGNETIC OXIDES WITH HIGH ANISOTROPY FIELD
67-01 M15-57120
IMPROVING THE MAGNETIC PROPERTIES OF BARIUM FERRITE BY THE ADDITION OF BI2O3 67-02 M15-59742
MAGNETIC AND IMPULSE PROPERTIES OF FERRITES CONTAINING VARIOUS AMOUNTS OF CO, SUBJECTED TO THERMOMAGNETIC TREATMENT 67-02 M15-59941
DYNAMIC BEHAVIOR OF MAGNETIZATION PROCESSES IN BARIUM FERRITE IN HIGH PULSED MAGNETIC FIELDS
67-02 M15-61035
QUANTITATIVE DETERMINATION OF BARIUM FERRITE

TEXTURE 67-02 M15-61036
MEASURING THE LENGTH OF REMAGNETIZATION PULSES 67-02 M15-61681
MAGNETIC PROPERTIES OF COBALT AND BARIUM FERRITES 67-02 M18-62089
MAGNETIZATION PROCESSES IN THE HIGH-FIELD RANGE OF FERROMAGNETICS MADE BY PRESSING FERROMAGNETIC PARTICLES 67-04 M15-66484
STUDY OF MAGNETIC RESISTANCE OF ORIENTED HEXAGONAL FERRITES 67-04 M15-66485
RELATIONSHIP OF MAGNETIZATION SATURATION AND ELECTRICAL RESISTANCE OF A NI-ZN-CO FERRITE WITH AN INDUCED RIGHT-ANGLED HYSTERESIS LOOP TO PHASE COMPOSITION 67-04 M15-66496
EFFECT OF OXYGEN DEFICIENCY ON THE MAGNETIC PROPERTIES OF COPPER FERRITE 67-04 M15-67484
MN-ZN-FERRITES WITH LOW LOSS PROPERTY AND HIGH INITIAL PERMEABILITY 67-04 M16-66996
TEMPERATURE DEPENDENCE OF THE INITIAL COMPLEX PERMEABILITY OF COO.6ZNO.4FE2O4 FERRITES OVER A WIDE RANGE OF FREQUENCIES 67-05 M15-69387
PARAMAGNETIC SUSCEPTIBILITY OF MN-ZN FERRITES NEAR THE CURIE TEMPERATURE 67-05 M15-69396
CRYSTAL ANISOTROPY AND SATURATION MAGNETIZATION OF HARD FERRITES WITH A COMPOSITION NEAR THE M-COMPOUND PREPARED BY MEANS OF THE VERNEUIL METHOD 67-06 M05-70996
INVESTIGATION OF SOME MAGNETIC PROPERTIES OF NICKEL-CADMIUM FERRITES 67-06 M15-70509
INFLUENCE OF SMALL ADMIXTURES OF CO2 PLUS ON THE FERROMAGNETIC RESONANCE OF NI-ZN-CR FERRITES SUBJECTED TO MAGNETOTHERMAL TREATMENT 67-06 M15-70518
HALL AND NERNST-ETTINGS-HAUSEN EFFECTS IN FERRITES CONTAINING AN EXCESS OF IRON IONS 67-06 M15-70520
EFFECT OF HEAT TREATMENT ON THE MAGNETIC AND ELECTRICAL PROPERTIES OF MAGNESIUM-ALUMINUM SUPERHIGH-FREQUENCY FERRITES 67-06 M15-70772
CRYSTALLOCHEMICAL CAUSES OF CONTROL OF MAGNETIC INDUCTION OF FERRITES 67-06 M15-71479
THE DOMAIN STRUCTURE OF COBALT FERRITE 67-06 M15-71755
MAGNETIZATION REVERSAL PROCESS IN BARIUM FERRITE POWDERS 67-06 M15-71765
ON THE PROCESS OF REVERSAL OF MAGNETIZATION IN BARIUM FERRITE POWDERS 67-06 M15-71914
INFLUENCE OF HEAT TREATMENT ON THE MAGNETIC-CRYSTALLOGRAPHIC ANISOTROPY AND ROTATION-HYSTERESIS LOSS IN LITHIUM PENTAFERRITE SINGLE CRYSTALS 67-06 M15-71920
EFFECT OF ION DIFFUSION DURING HEAT AND THERMOMAGNETIC TREATMENTS ON THE MAGNETOCRYSTALLOGRAPHIC ANISOTROPY IN SINGLE CRYSTALS OF NICKEL-COBALT FERRITES 67-07 M15-72588
MAGNETIC AND IMPULSE PROPERTIES OF FERRITES WITH DIFFERENT AMOUNTS OF CO AFTER THERMOMAGNETIC TREATMENT 67-07 M15-72596
CALORIMETRIC DETECTION OF NMR IN FERROMAGNETS 67-07 M15-72651
INDUCED ANISOTROPY IN MANGANESE FERRITE 67-07 M15-72664
NUCLEATION AND GROWTH OF REVERSE DOMAINS 67-07 M15-73556
THE MEASUREMENT OF SATURATION MAGNETOSTRICTION OF POLYCRYSTALLINE AND FERROMAGNETIC ALLOYS AND FERRITES IN THE MINUS 140 TO PLUS 160 C. RANGE 67-07 M15-73802
INVESTIGATION OF WALL ENERGY DOMAINS ON PERMINVAR FERRITES 67-07 M15-73803
A THIRD MAXIMUM IN THE PERMEABILITY/TEMPERATURE CURVE OF MN-ZN FERRITES 67-07 M15-73804
THE EFFECTS OF SPIN-WAVE EXCITATION UPON THE HALFWIDTH OF THE FERRIMAGNETIC RESONANCE 67-07 M15-73805
LOW-TEMPERATURE PERMEABILITY MEASUREMENTS ON FERRITES 67-08 M15-74392
MAGNETORESISTANCE OF MN-ZN FERRITES IN THE CURIE TEMPERATURE DOMAIN 67-08 M15-74778
EFFECT OF MAGNETIC ANNEALING ON THE MAGNETIZATION OF COBALT-FERRITE POWDERS 67-09 M15-76782
DOMAIN-WALL MOTION IN BARIUM FERRITE SINGLE CRYSTALS 67-09 M15-77445
INVESTIGATION OF THE DEPENDENCE OF CERTAIN PROPERTIES OF MAGNESIUM AND MANGANESE FERRITES ON THEIR COMPOSITION 67-10 M15-79457
TEMPERATURE DEPENDENCE OF THE MAGNETOSTRICTION CONSTANTS OF SINGLE-CRYSTAL LITHIUM FERRITE 67-10 M15-79464
THE MAGNETOCRYSTALLINE ANISOTROPY OF NI-CO FERRITES 67-11 M15-80615
CRYSTAL CHEMICAL CAUSES OF CONTROL OF THE MAGNETIC INDUCTION OF FERRITES 67-12 M15-82800
FERRITES 67-12 M15-82898

FERRITES, MICROSTRUCTURE
QUANTITATIVE RELATIONS BETWEEN TEXTURE AND REMANENCE OF HEXAGONAL FERRITES 67-01 M13-58443

FERRITES, POWDER METALLURGY
MANUFACTURING OF FERRITE POWDERS BY THE JOINT PRECIPITATION METHOD 67-08 M09-75424

FERRITES, REACTIONS /CHEMICAL/
DISSOCIATION OF COPPER OXIDE FERRITES BY MATTE 67-02 M03-62228
THE DISSOLUTION MECHANISM OF ZINC-FERRITE. PT. 4. STUDY ON ZINC-FERRITE 67-06 M14-71735
THE PROMOTION OF ACID DISSOLUTION OF ZINC-FERRITE. PT. 5. STUDY ON ZINC-FERRITE 67-06 M14-71736
RADIOACTIVE ISOTOPE INVESTIGATION OF THE REDUCTION KINETICS OF SOME CHEMICAL COMPOUNDS OF ZN IN TUBULAR FURNACES 67-07 M03-73040
DECOMPOSITION OF COPPER, ZINC AND IRON FERRITES DURING THEIR REACTION WITH MATTE 67-10 M14-80046

FERRITIC CHROMIUM STAINLESS STEELS
SEE FERRITIC STAINLESS STEELS

FERRITIC STAINLESS STEELS, CHEMICAL ENGINEERING
STAINLESS STEEL AND THE CHEMICAL INDUSTRY 67-03 M20-65462

FERRITIC STAINLESS STEELS, COATING
HARD SURFACING BY OXYGEN-ACETYLENE FLAME, AIDED BY NI AND CO BASE ALLOYS 67-05 M12-69123

FERRITIC STAINLESS STEELS, CORROSION
UNDERSTANDING THE STRESS-CORROSION BEHAVIOR OF STAINLESS STEELS 67-01 M18-58518
CORROSION OF STEELS BY SEA WATER 67-02 M18-60043
APPLICATIONS OF STEELS FOR DESALINATION PLANTS 67-02 M18-61538
OBSERVATIONS ON CORRODED PARTS OF A STATIONARY 10 MW GAS TURBINE 67-02 M18-62014
HIGH-TEMPERATURE CORROSION BY PRODUCTS OF COMBUSTION OF FUEL OILS OF HIGH AND MEDIUM DENSITY 67-02 M18-62015
HIGH-TEMPERATURE CORROSION TESTS WITH DIFFERENT HEAT RESISTANT MATERIALS IN AN OIL/GAS FIRED INDUSTRIAL BOILER 67-02 M18-62019
ALKALI SULFATE CORROSION IN STEEL RECUPERATORS AND BOILER PLANTS 67-02 M18-62022
EFFECTS OF MO, CU, SI AND P ON ANODIC BEHAVIOR OF 17 CR STEELS 67-03 M18-65404
HOW URANIUM AFFECTS CORROSION OF RESULFURIZED STAINLESSES 67-03 M18-65983
CORROSION RESISTANCE OF STEELS WITH A LOW CONCENTRATION OF NICKEL IN AGGRESSIVE MEDIA 67-05 M18-68381
MICROSTRUCTURE, TECHNICAL AND CORROSION PROPERTIES OF HIGH-B CHEMICALLY RESISTANT STEELS 67-05 M18-68608
COMPARATIVE STUDY OF CORROSION CRACK RESISTANCE OF OKH21N5T AND KH18N10T STAINLESS STEELS 67-05 M18-69822
PREVENTION OF VANADIUM PENTOXIDE ATTACK OF REFORMER TUBES BY MAGNESIUM COMPOUNDS 67-06 M18-70543
CHEMICAL TREATMENT OF STAINLESS STEEL TUBES FOR PREVENTION OF PITTING CORROSION 67-06 M18-71264
COMPARATIVE RESEARCH OF THE PITTING SUSCEPTIBILITY OF ORDINARY FERRITIC CR STEELS AND AUSTENITIC CR-NI STEELS IN CACL2 SOLUTIONS 67-08 M18-75511
CHEMICAL TREATMENT OF STAINLESS STEEL TUBES TO ELIMINATE RUSTY SPOTS 67-08 M18-75733
CORROSION RESISTANCE OF OKH13 --EI496-- STEEL AND ITS WELDED JOINTS IN CERTAIN OPERATING MEDIA 67-09 M18-77614
PITTING CORROSION OF STAINLESS STEELS IN WATER CONTAINING CHLORINE IONS 67-10 M18-78528
RESEARCH INTO THE CORROSION-RESISTANCE OF A FERRITIC STAINLESS STEEL CONTAINING 17 PER CENT CR 67-10 M18-79746
COMPARATIVE SENSITIVITY OF AUSTENITIC-FERRITIC AND AUSTENITIC STAINLESS STEELS TO PITTING CORROSION 67-11 M18-81277
COMPARATIVE STUDY OF THE RESISTANCE OF KH21N5T AND KH18N10T STEELS TO CORROSION CRACKING 67-12 M18-82256
INVESTIGATIONS INTO A PITTING CORROSION INDICATOR

TEST ON CHROMIUM AND CHROME-NICKEL STEELS IN SOLUTIONS CONTAINING CHLORIDE OR BROMIDE 67-12 M18-82298

FERRITIC STAINLESS STEELS, CRYSTAL LATTICES
THE MECHANISM OF RIDGING IN FERRITIC STAINLESS STEELS 67-06 M13-71077

FERRITIC STAINLESS STEELS, MECHANICAL PROPERTIES
STUDY ON PREVENTIVE METHOD FOR WELD CRACKS OF 405 CLAD STEEL BY 13 CR STAINLESS STEEL ELECTRODE 67-01 M11-58698
THE RESISTANCE TO THERMAL SHOCK OF AUSTENITIC AND FERRITIC STEELS --3-- 67-02 M17-59811
RESIDUAL DEFORMATION STRESSES IN IRON MATERIALS 67-02 M17-59917
REDUCTION OF AREA IN HOT DEFORMATION BY TENSILE STRESS 67-02 M17-61996
STUDY OF MATERIAL FOR UNLUBRICATED ROLLING PARTS FOR HIGH-TEMPERATURE SERVICE 67-02 M17-61998
CONTRIBUTION TO THE STUDY OF THE FORGEABILITY OF STAINLESS AND REFRACTORY STEELS IN THE AS-CAST CONDITION 67-02 M17-62063
INVESTIGATION OF THE EFFECT OF HIGH TEMPERATURES ON THE DUCTILE PROPERTIES OF KH25T STEEL 67-04 M17-66003
FUNDAMENTAL MATERIAL INVESTIGATIONS WITH RESPECT TO DEFORMATION AT INTERMEDIATE TEMPERATURES 67-04 M17-67409
INFLUENCE OF A PHASE TRANSFORMATION ON THE APPEARANCE OF HIGH-TEMPERATURE EMBRITTLEMENT AFTER NEUTRON IRRADIATION 67-04 M17-67465
CREEP AND RUPTURE DATA FOR DOMESTIC MATERIALS 67-04 M17-67597
CREEP-RUPTURE PROPERTIES OF SOME FERRITIC AND AUSTENITIC STEELS 67-04 M17-67598
INFLUENCE OF PHASE TRANSFORMATIONS ON THE DUCTILITY OF AUSTENITIC-FERRITIC STEELS 67-04 M17-67980
A NEW TYPE OF 13 PER CENT CR CAST STEEL WITH HIGH PROPERTIES AND IMPROVED WELDABILITY 67-05 M17-68782
OPTIMUM TEMPERATURES OF PLASTIC DEFORMATION OF STAINLESS STEELS 67-06 M17-70918
SPECIAL STAINLESS STEELS 67-07 M17-73718
SOME CHARACTERISTICS OF BRITTLE FAILURE OF THE TWO-PHASE STEELS DURING HOT PLASTIC DEFORMATION 67-07 M17-74194
HAZARDOUS METALLURGICAL NOTCHES 67-08 M17-75526
A MODEL SYSTEM TO SIMULATE CREEP OF COMPOSITES 67-08 M17-76257
TYPICAL PROPERTIES OF WROUGHT STAINLESS STEELS 67-10 M17-79754

FERRITIC STAINLESS STEELS, METAL WORKING
STAINLESS STEELS IN TRANSPORTATION 67-12 M20-83296

FERRITIC STAINLESS STEELS, MICROSTRUCTURE
DETECTION OF PRECIPITATION OF IRON CARBON MARTENSITES WHICH CANNOT BE OBSERVED WITH THE ELECTRON MICROSCOPE 67-02 M13-59916
DIAGRAM SHOWING PHASE RELATIONS OF THE OXIDE INCLUSIONS FORMED IN STEELS OF THE FE-CR-O SYSTEM 67-02 M13-60623
CHEMICAL THINNING TECHNIQUE FOR THE PREPARATION OF THIN FOILS FROM BULK SAMPLES OF FERROUS MATERIALS 67-04 M13-67026
THE APPLICATION OF PHASE INTEGRATORS TO THE DETERMINATION OF INCLUSIONS AND THE VOLUMETRIC DETERMINATION OF SEGREGATION RANGES IN STEEL 67-04 M13-67204
TOWARD A METHOD OF MICROFRACTOGRAPHIC STUDY OF STAINLESS STEEL 67-05 M13-69631
OCCURRENCE OF BORON IN OXIDE INCLUSIONS IN STEEL 67-06 M13-70808
THE ORIGIN OF RIDGING IN 17 PER CENT CR STAINLESS STEEL HOT STRIPS 67-09 M13-78241

FERRITIC STAINLESS STEELS, PHASE TRANSFORMATIONS
NEWER METHODS TO IMPROVE THE MECHANICAL PROPERTIES OF STEEL THROUGH DEFORMATION 67-02 M17-60506
TRANSFORMATION OF DELTA FERRITE DURING A QUENCHING TREATMENT 67-08 M14-76211

FERRITIC STAINLESS STEELS, PHASES /STATE OF MATTER/
X-RAY DETERMINATION OF THE VOLUME FRACTION OF PHASES IN TEXTURED MATERIALS 67-02 M13-59435
POSITION OF THE TEMPERATURE RANGE OF THE SIGMA PHASE IN FERRITIC CHROMIUM STEELS 67-07 M13-72676
PHASE COMPOSITION AND PROPERTIES OF TWO-PHASE OKH21N6M2T STAINLESS STEEL 67-09 M14-77423

FERRITIC STAINLESS STEELS, PHYSICAL PROPERTIES
ALLEGHENY LUDLUM 419. --HIGH TEMPERATURE ALLOY-- 67-09 M01-76522

FERRITIC STAINLESS STEELS, ROLLING
MECHANICAL PROPERTIES, TEXTURE AND FIBROUS APPEARANCE OF 17 PER CENT CR STAINLESS STEELS AS A FUNCTION OF THEIR PROCESSING CONDITIONS 67-01 M17-57606

FERRITIC STAINLESS STEELS, THERMAL PROPERTIES
METALS WORKABLE AT HIGH TEMPERATURES AND UNDER STRONG PRESSURE--THEIR CHARACTERISTICS, USE AND APPLICATION TO PETROLEUM CHEMISTRY 67-04 M15-67295

FERRITIC STAINLESS STEELS, WELDED JOINTS
HEAT TREATMENT OF AUSTENITIC-FERRITIC WELDS 67-06 M10-70146

FERRITIC STAINLESS STEELS, WELDING
EFFECT OF DELTA-FERRITE ON IMPACT STRENGTH OF WELD METAL IN JOINTS OF TRANSITION-CLASS STEELS 67-02 M11-59514
WELDABILITY AND MAJOR WELDING PROCESSES FOR STAINLESS STEELS 67-02 M11-59803
THE EFFECTS OF NICKEL ON WELDS CONTAINING 20-22 PER CENT CHROMIUM 67-04 M11-66520

FERROALLOYS /ADDITIVES/
SEE ALSO FERROBORON
FERROCHROMIUM
FERROCOLUMBIUM
FERROMANGANESE
FERROMOLYBDENUM
FERRONICKEL
FERROSILICON
FERROTITANIUM
FERROTUNGSTEN
FERROVANADIUM
FERROZIRCONIUM
SPECIAL FEATURES OF CLOSED SILICOMANGANESE FURNACE BATHS 67-04 M04-68189
ALLOY FOR DEOXIDIZING AND ALLOYING 67-06 M04-70730
EFFICIENT DEOXIDIZING AND ALLOYING CHROME STEEL 67-06 M04-70903
USE OF EXOTHERMIC FERROALLOYS IN THE PRODUCTION OF LOW-ALLOY OXYGEN CONVERTER STEEL 67-08 M04-76271
ALLOYS FOR STAINLESS STEEL 67-09 M04-77581
EFFECT OF CALCIUM AND ALUMINUM ON THE ACTIVITY OF IRON-SILICON AS INOCULANT FOR GRAY CAST IRON 67-10 M04-78482
USE OF EXOTHERMIC FERROALLOYS WHEN MELTING LOW ALLOY BASIC OXYGEN STEEL 67-10 M04-79264
PRODUCING HEAVY-GAGE CHROMIUM-NICKEL STEEL CONTAINING NIOBIUM 67-12 M04-81867

FERROALLOYS /ADDITIVES/, CHEMICAL ANALYSIS
X-RAY FLUORESCENCE ANALYSIS OF RARE-EARTH ALLOYS 67-05 M19-69620

FERROALLOYS /ADDITIVES/, DISSOLVING
MIXING OF LIQUID STEEL AND DISSOLUTION OF FERROALLOYS DURING DH DEGASSING. PT. 11. APPLICATION OF RADIOACTIVE IOSTOPES IN STEELMAKING 67-06 M04-72270

FERROALLOYS /ADDITIVES/, MELTING
INDUSTRIAL TESTS OF MELTING SILICOMANGANESE IN A 10,000 KVA CLOSED ELECTRIC FURNACE AT ZAPOROZHE FERROALLOY WORKS 67-01 M04-58026
PRODUCTION OF EXOTHERMIC FERROALLOYS 67-02 M04-59695
THERMAL CALCULATION RELATED TO ALUMINOTHERMAL MELTING OF FERROSILICOZIRCONIUM 67-02 M04-60094
INDUSTRIAL INTRODUCTION OF ALUMINOTHERMAL PRODUCTION OF SILICOZIRCONIUM 67-02 M04-60095
TECHNIQUES FOR MELTING LOW-SILICON FERRONIOBIUM 67-02 M04-60096
CHARACTERISTICS OF STRUCTURE OF A POOL OF A CLOSED SILICOMANGANESE FURNACE 67-02 M04-62147
SELECTING OPTIMUM CHARGE COMPOSITION FOR THE PRODUCTION OF SILICOCALCIUM 67-05 M04-68325
SMELTING SILICON FERROALLOYS 67-06 M04-70731
BUILDING CONTROLS FOR ARC FURNACE OPERATION 67-06 M04-70945
SELECTION OF OPTIMUM CHARGE COMPOSITION FOR PRODUCING SILICOCALCIUM 67-07 M04-72853
THE PRODUCTION OF FERROSILICONCALCIUM AND ITS USE FOR KILLING STEEL 67-07 M04-73782
STRUCTURE OF THE WORKING AREA OF AN OPEN SILICOMANGANESE FURNACE 67-08 M04-74577
USING OXIDIZED USINSK ORES FOR MELTING MANGANESE ALLOYS 67-08 M04-75028

FERROALLOYS /ADDITIVES/

MANUFACTURE OF SI-CA USING THE SILICOTHERMAL METHOD 67-09 M03-76565
MELTING FERROSILICOCALCIUM AND USING IT FOR DEOXIDIZING STEEL 67-09 M04-76545
CARBON REDUCTION OF SILICON AND CALCIUM FROM THEIR OXIDES 67-09 M04-77268
SELENIOUS SEMIPRODUCTS USED TO OBTAIN A FERROSELENIUM ALLOY 67-10 M04-80081
EFFECTIVE SELENIUM ALLOYING TECHNIQUE FOR CONVENTIONAL STEEL PRACTICE 67-10 M04-80084
OPERATING EXPERIENCE WITH SKB-6012 ELECTRIC FURNACES FOR SMELTING SILICOALUMINUM 67-11 M04-81305
USE OF EXOTHERMIC FERROALLOYS IN STEELMAKING 67-12 M04-82475

FERROALLOYS /ADDITIVES/, REACTIONS /CHEMICAL/
KINETICS OF REDUCING SILICA BY AN IRON-CARBON MELT 67-02 M02-62227
USE OF SILICO-ALUMINUM TO DEOXIDIZE STEEL 67-04 M04-66032
EXPERIENCE IN DEOXIDIZING STEEL WITH SILICO-ALUMINUM 67-04 M04-66035
REACTION OF IRON AND SELENIUM IN THE 400 TO 1400 C. RANGE 67-06 M04-71377

FERROALLOYS /ADDITIVES/, REFINING
TECHNOLOGY FOR THE PRODUCTION OF PRIMARY SILICON-ALUMINUM ALLOY --SILUMIN-- WITHOUT USING ALUMINA IN THE CHARGE 67-02 M04-59862
PRODUCTION OF FERRONIOBIUM 67-02 M04-61958

FERROBORON, MELTING
PHASE COMPOSITION OF SLAGS OBTAINED DURING EXTRACTION OF FERROBORON 67-02 M04-60729
SOME FEATURES OF THE PRODUCTION OF HIGH-PURITY FERROBORON 67-07 M04-74141

FERROCHROMIUM, ALLOYING ADDITIVE
IMPROVING THE QUALITY OF VERY LOW-CARBON STAINLESS STEELS BY USING HIGH-PURITY FERROCHROMIUM 67-09 M04-77360
ALLOYING 5KHNV STEEL OUTSIDE THE FURNACE 67-12 M04-82491

FERROCHROMIUM, CHEMICAL ANALYSIS
CONTRIBUTION TO THE IDENTIFICATION OF CHARACTERISTIC NONMETALLIC INCLUSIONS IN FERROCHROMES WITH MEDIUM CARBON AND SILICON CONTENTS 67-12 M13-83340

FERROCHROMIUM, MACHINING
THE GRINDING OF HIGH-CARBON FERROCHROME 67-06 M04-72300

FERROCHROMIUM, MELTING
METHODS FOR REDUCING CARBON-FREE FERROCHROME CONSUMPTION IN MELTING STAINLESS STEELS WITH OXYGEN 67-02 M04-59860
INVESTIGATION OF A COMBINED PROCESS OF MELTING BASIC FERROCHROME 67-02 M04-59960
REDUCING LUMP CHROMIUM ORES IN SMELTING CARBONACEOUS FERROCHROME 67-10 M04-80080
OXIDIZING THE CARBON OF FERROCHROMIUM DURING OXYGEN BLOWING IN THE CONVERTER 67-11 M04-80858
MELTING AND DISSOLVING MECHANISM FOR FERROCHROMIUM FED TO THE METAL THROUGH A LAYER OF SLAG 67-11 M04-81402
MATERIAL AND HEAT BALANCES IN THE PRODUCTION OF CARBONACEOUS FERROCHROMIUM IN A CLOSED FURNACE 67-12 M04-81868

FERROCHROMIUM, OXIDATION
EXAMINATION OF THE OXIDE FILMS ON IRON-CHROMIUM MELTS 67-12 M13-82149

FERROCHROMIUM, PHASES /STATE OF MATTER/
STUDY OF THE CARBIDE COMPONENT IN THE STRUCTURE OF LOW-CARBON FERROCHROMIUM PRODUCED UNDER INDUSTRIAL CONDITIONS 67-02 M13-59694

FERROCHROMIUM, PHYSICAL PROPERTIES
VISCOSITY AND ELECTRICAL RESISTANCE OF FERROSILICOCHROME AND CHROME-VANADIUM PIG 67-11 M15-81438

FERROCHROMIUM, REFINING
IMPROVEMENTS IN THE PRODUCTION OF FERROCHROMIUM 67-05 M02-69082
DESULFURIZING CARBON FERROCHROME OUTSIDE THE FURNACE 67-10 M04-80082
VACUUMING MOLTEN FERROCHROME 67-10 M04-80083
HOW CHARGE MAKE-UP AFFECTS PHOSPHORUS CONTENT IN FERROCHROMIUM WITH EXTRA-LOW CARBON COMPONENT 67-12 M04-82498
EXPERIMENTS IN THE REMELTING OF REFINED FERROCHROME IN A MULTIPLE-CHAMBER ELECTRON BEAM FURNACE 67-12 M04-82693
SULPHUR DISTRIBUTION BETWEEN THE PHASES IN HIGH-CARBON FERROCHROMIUM 67-12 M14-82159

FERROCHROMIUM, SINTERING
DECARBURIZATION AND SINTERING OF BRIQUETS IN VACUUM-THERMAL PRODUCTION OF CARBON-FREE FERROCHROMIUM 67-05 M04-69686
DECARBURIZATION AND SINTERING BRIQUETTES IN THE VACUUM THERMAL PRODUCTION OF CARBON-FREE FERROCHROMIUM 67-07 M04-74072

FERROCOLUMBIUM, ALLOYING ADDITIVE
COMPARISON BETWEEN COLUMBIUM CARBIDE AND FERROCOLUMBIUM AS ADDITIONS TO COLUMBIUM-ALLOYED STEELS 67-06 M04-72298

FERROELECTRIC DOMAINS
EFFECT OF DOMAIN STRUCTURE ON THE MAGNETIC PROPERTIES OF CHROMIUM OXIDE 67-05 M15-69024

FERROELECTRICITY
DIELECTRIC AND OPTICAL INVESTIGATIONS OF THE IRREVERSIBLE FERROELECTRIC PHASE TRANSITION IN CRYSTALS OF POTASSIUM 67-09 M15-76783
FERROELECTRICITY OF BARIUM TITANATE THIN FILMS OF LESS THAN ONE MICRON THICKNESS 67-12 M15-82015

FERROELECTRICITY, TEMPERATURE EFFECTS
ELECTRIC CONDUCTIVITY AND DIELECTRIC ABSORPTION PHENOMENA IN LEAD ZIRCONATE CERAMICS 67-11 M15-80618

FERROMAGNETIC FILMS
SEE FERROMAGNETIC MATERIALS
THIN FILMS

FERROMAGNETIC MATERIALS
SEE ALSO MAGNETIC ALLOYS
MAGNETITE
PERMALLOY
PARTIAL REMAGNETIZATION OF THIN FERROMAGNETIC FILMS 67-04 M15-67663
EFFECT OF FERROMAGNETIC CONSTRUCTION ELEMENTS ON THE MAGNETIC FIELD IN THE MELTING ZONE OF LARGE ALUMINUM-ELECTROLYSIS CELLS 67-07 M03-72783

FERROMAGNETIC MATERIALS, BAND THEORY
SPIN-POLARIZED ELECTRONIC ENERGY-BAND STRUCTURE IN EUS 67-09 M16-77173

FERROMAGNETIC MATERIALS, CRYSTAL DEFECTS
THE FERROMAGNETIC AFTER-EFFECT IN IRRADIATED NICKEL, AND ITS APPLICATION TO THE STUDY OF POINT DEFECTS IN FCC METALS 67-04 M13-67318

FERROMAGNETIC MATERIALS, CRYSTAL LATTICES
STUDY OF THE CRYSTAL STRUCTURE OF YUNDK35T5 ALLOY IN OPTIMUM MAGNETIC STATE 67-04 M14-66494

FERROMAGNETIC MATERIALS, DIFFUSION
SELF-DIFFUSION AND DIFFUSION OF COBALT IN ALPHA AND DELTA-IRON 67-01 M14-57938

FERROMAGNETIC MATERIALS, ELECTRICAL PROPERTIES
THE EFFECT OF COBALT SUBSTITUTION ON ELECTRICAL CONDUCTION IN NICKEL FERRITE 67-01 M15-58781
PLANE HALL EFFECT IN FERROMAGNETIC METALS 67-02 M15-61119
INTERACTION OF FERROMAGNETIC AND SUPERCONDUCTING THIN FILMS 67-05 M16-68905
STUDY OF THE EFFECT OF MAGNETIC ORDERING ON THE ELECTRICAL RESISTIVITY OF GDAL2 67-07 M15-73314

FERROMAGNETIC MATERIALS, FERMI SURFACE
DE-HAAS-VAN ALPHEN EFFECT IN FERROMAGNETIC NICKEL 67-01 M16-57554

FERROMAGNETIC MATERIALS, HYSTERESIS
HYSTERESIS LOOPS ON BIAXIAL FERROMAGNETIC FILMS 67-02 M15-61161

FERROMAGNETIC MATERIALS, INTERNAL FRICTION
DAMPING CAPACITY OF FERROMAGNETIC ALLOYS ON NICKEL BASE 67-02 M17-61183

FERROMAGNETIC MATERIALS, MAGNETIC PROPERTIES
EFFECT OF CRYSTALLITE SIZE ON COERCIVE FORCE OF THIN FERROMAGNETIC FILMS 67-01 M15-57119
UPPER LIMITS OF THE MAGNETIC HYSTERESIS OF CERTAIN FERROMAGNETICS 67-01 M15-57364
FERROMAGNETIC CURIE TEMPERATURES OF SOME IRON-ZINC SOLID SOLUTIONS 67-01 M15-57564
THE STRUCTURE AND POLARITY OF DOMAIN BOUNDARIES IN FERROMAGNETIC LAYERS 67-01 M15-57572
THE REMAGNETIZATION OF THIN FERROMAGNETIC LAYERS ALONG THE AXIS OF LIGHT MAGNETIZATION 67-01 M15-57583
THE MAGNETIZATION PROCESS IN NICKEL SINGLE CRYSTALS. PT. 1 67-01 M15-5877*
EVIDENCE FOR ITINERANT ELECTRON FERROMAGNETISM IN ZRZN2 67-01 M16-5863*
MAGNETIC DOMAIN STRUCTURE OF NI-MN ALLOY 67-02 M15-59477
INVESTIGATION OF THE MAGNETIC PROPERTIES AND HARDNESS IN IRON-COBALT ALLOYS

67-02 M15-59919
MAGNETIC DOMAIN STRUCTURE OF THIN UNIAXIAL CRYSTALS
67-02 M15-60804
MOBILITY AND LOSS MECHANISMS FOR DOMAIN WALL MOTION IN THIN FERROMAGNETIC FILMS 67-02 M15-61079
THE EFFECT OF MAGNETIC TEXTURE ON THE PROCESSES OF MAGNETIC REVERSAL OF FERROMAGNETICS
67-02 M15-62076
NUCLEAR MAGNETIC RESONANCE OF CUBIC FERROMAGNETIC COMPOUNDS CO2MNSN AND COMNSB 67-02 M16-59472
INFLUENCE OF HYDROGEN ON THE MAGNETOMECHANICAL DAMPING IN NICKEL 67-03 M17-65384
MEASUREMENT OF CURIE TEMPERATURE BY AN INDUCTION METHOD 67-04 M15-66305
RELATIONSHIP OF THE COERCIVITY OF THIN FERROMAGNETIC FILMS TO CERTAIN FACTORS
67-04 M15-66482
MAGNETIC ANISOTROPY IN COBALT FERROMAGNETIC THIN FILMS 67-04 M15-66815
EFFECT OF HYDROSTATIC PRESSURE ON THE MAGNETIC MOMENT OF CU-NI ALLOYS 67-04 M15-67480
MULTILAYER THIN-FILM SYSTEMS 67-05 M15-68852
THE EFFECT OF DISLOCATIONS ON THE MAGNETIZATION CURVES OF FERROMAGNETIC CRYSTALS
67-05 M15-69453
EFFECT OF HYDROSTATIC PRESSURE ON THE CURIE TEMPEPATURE OF NI AND CU-NI ALLOYS
67-05 M15-69763
CONCERNING THE TEMPERATURE DEPENDENCE OF THE MAGNETIC ANISOTROPY CONSTANTS OF FERROMAGNETS AND FERRITES 67-06 M15-72035
MAGNETIC PROPERTIES AND HARDNESS OF IRON-COBALT ALLOYS 67-07 M15-72574
CALORIMETRIC DETECTION OF NMR IN FERROMAGNETS
67-07 M15-72651
OBLIQUE-INCIDENCE MAGNETIC ANISOTROPY IN CODEPOSITED ALLOY FILMS 67-07 M15-72657
VOLUME- AND TEMPERATURE DEPENDENCE OF THE ANISOTROPIC MAGNETOSTRICTION OF IRON, NICKEL AND SOME IRON-ALLOYS 67-07 M15-73303
MAGNETIC CRITICAL-POINT BEHAVIOR OF CRO2
67-07 M15-73502
THE MEASUREMENT OF SATURATION MAGNETOSTRICTION OF POLYCRYSTALLINE AND FERROMAGNETIC ALLOYS AND FERRITES IN THE MINUS 140 TO PLUS 160 C. RANGE
67-07 M15-73802
NONRESONANT MEASUREMENT OF T1 IN FERROMAGNETIC ALLOYS AT VERY LOW TEMPERATURES
67-08 M16-75832
DOMAIN STRUCTURE OF ALNICO ALLOY SINGLE CRYSTALS WHICH ARE IN DIFFERENT STRUCTURAL STATES
67-10 M15-79835

FERROMAGNETIC MATERIALS, MECHANICAL PROPERTIES
INFLUENCE OF STRUCTURE ON THE VARIATION IN INTERNAL FRICTION WITH THE AMPLITUDE OF OSCILLATIONS IN FERROMAGNETIC METALS 67-02 M17-62192
THE DEPENDENCE OF ELASTIC AND MAGNETIC PROPERTIES OF NICKEL-COPPER ALLOYS ON ANNEALING TEMPERATURE
67-04 M17-66920

FERROMAGNETIC MATERIALS, METALLOGRAPHY
THE OBSERVATION OF MAGNETIC MICROSTRUCTURES AS A METALLOGRAPHIC EXAMINATION METHOD
67-01 M13-58396

FERROMAGNETIC MATERIALS, OPTICAL PROPERTIES
OPTICAL DENSITIES OF STATES OF NICKEL, COBALT, AND PALLADIUM 67-02 M16-61595

FERROMAGNETIC MATERIALS, POWDER METALLURGY
PERMANENT CERMET MAGNETS MADE FROM GROUND AND MACHINED CAST MAGNET WASTE 67-05 M09-69305

FERROMAGNETIC MATERIALS, THERMAL PROPERTIES
THE SPECIFIC HEAT OF ZRZN2 67-03 M15-65134

FERROMAGNETIC MATERIALS, THERMODYNAMICS
HEAT CAPACITY OF COBALT IN THE VICINITY OF THE CURIE POINT 67-03 M15-65633

FERROMAGNETIC MATERIALS, THIN FILMS
EFFECTIVE TRIAXIAL ANISOTROPY IN TRIPLE-LAYERED THIN MAGNETIC FILMS 67-04 M15-66997
NUCLEATION PROCESSES ON THE EDGE OF THIN PERMALLOY FILMS 67-04 M15-67636

FERROMAGNETIC MATERIALS, TRANSPORT PROPERTIES
HALL EFFECT CLOSE TO THE CURIE POINT IN FERROMAGNETIC METALS 67-02 M15-61919
HALL EFFECT AND TRANSVERSE MAGNETORESISTANCE IN SOME FERROMAGNETIC IRON-CHROMIUM ALLOYS
67-03 M16-65026

FERROMAGNETISM
ANTIFERROMAGNETIC TO WEAK FERROMAGNETIC TRANSITION AND THE TEMPERATURE DEPENDENCE OF THE TRANSVERSE SUSCEPTIBILITY IN HEMATITE BELOW THE MORIN TRANSITION 67-01 M15-57447
ON THE MAGNETIC STRUCTURE OF SOME ALLOYS OF TRANSITION METALS 67-01 M15-57576
MAGNETIC PROPERTIES OF RARE EARTH-MANGANESE COMPOUNDS 67-01 M15-58662
FERROMAGNETIC HALL EFFECT WITH ELECTRON-PHONON INTERACTIONS 67-01 M15-58749
EVIDENCE FOR ITINERANT ELECTRON FERROMAGNETISM IN ZRZN2 67-01 M16-58636
INVESTIGATION OF TEMPERATURE AND STRUCTURAL DEPENDENCE OF FERROMAGNETIC PROPERTIES OF NICKEL FILMS PRODUCED CHEMICALLY 67-02 M15-59921
FERROMAGNETIC RESONANCE IN THIN SINGLE-CRYSTAL PLATELETS OF IRON 67-02 M15-61095
MAGNETIC PROPERTIES OF DYAL2 AND NDAL2
67-02 M15-61837
LOW-TEMPERATURE PARAMAGNETIC SUSCEPTIBILITY OF TRANSITION METALS WITH A SMALL NUMBER OF D-ELECTRONS 67-02 M15-61921
ANISOTROPY DISTRIBUTION AND NATURAL FERROMAGNETIC RESONANCE IN SINGLE-DOMAIN PARTICLES OF FE AND FE-CO ALLOY 67-02 M15-62072
EPITAXIAL FILMS OF IRON, NICKEL AND COBALT
67-02 M15-62078
THE INFLUENCE OF TEMPERATURE AND ANNEALING TIME ON MAGNETIC PROPERTIES OF DILUTED ALLOYS CO-CU
67-03 M14-65444
INTERPOLATION SCHEME FOR BAND STRUCTURE OF NOBLE AND TRANSITION METALS--FERROMAGNETISM AND NEUTRON DIFFRACTION IN NI 67-03 M16-65027
MAGNETIC PROPERTIES OF THE INTERMETALLIC COMPOUNDS OF COBALT WITH THE RARE EARTH METALS AND YTTRIUM
67-04 M15-66191
MAGNETIZATION OF THIN NICKEL FILMS
67-04 M15-67390
ANTIFERRO-FERROMAGNETIC TRANSITION IN FE --PTPD--3 ALLOYS 67-04 M15-67662
ELECTRON SPIN RESONANCE OF PHOSPHORUS-DOPED SILICON IN THE METALLIC CONDUCTION REGION
67-04 M16-66788
PRE-OXIDATION OF ILMENITE ORES AND ITS BEARING ON THEIR SOLID-STATE REDUCTION BY HYDROGEN
67-05 M03-68475
MAGNETIC PROPERTIES OF DILUTE COPPER-MANGANESE ALLOYS 67-05 M15-68847
SHOCK-WAVE COMPRESSION OF 30 PER CENT NI-70 PER CENT FE ALLOYS.. THE PRESSURE-INDUCED MAGNETIC TRANSITION 67-05 M15-69218
PARAMAGNETIC SUSCEPTIBILITY OF MN-ZN FERRITES NEAR THE CURIE TEMPERATURE 67-05 M15-69396
AN X-RAY DIFFRACTION STUDY OF THE PHASE TRANSFORMATION TEMPERATURE OF MNO
67-06 M14-71429
MOSSBAUER EFFECT STUDY OF BCC STRUCTURE ALLOYS, FEAL AND FETI 67-06 M15-70418
THE SHIFT OF THE FERROMAGNETIC CURIE TEMPERATURE IN EUS BY HYDROSTATIC PRESSURE 67-06 M15-70463
THE EFFECT OF SUBLATTICE ORDER IN BINARY ALLOYS WITH ONE MAGNETIC COMPONENT. PT. 3
67-06 M15-71286
FERROMAGNETIC TRANSITIONS IN DILUTE SOLUTIONS OF COBALT IN PALLADIUM 67-06 M15-71794
INFLUENCE OF THE ANOMALOUS SKIN EFFECT ON THE FERROMAGNETIC-RESONANCE LINEWIDTH IN IRON
67-06 M15-71796
INVESTIGATION OF THE MAGNETIC STRUCTURE OF A FERROMAGNETIC SUBSTANCE BY MAGNETO-OPTIC APPARATUS WITH MICRON RESOLUTION
67-06 M15-71922
FERROMAGNETISM IN THE INTERMETALLIC PHASE NI3AL
67-06 M15-71993
FERROMAGNETIC RESONANCE IN A SERIES OF ALLOYS. PT. 1. BINARY ALLOYS OF NICKEL WITH COPPER, TUNGSTEN, COBALT AND CHROMIUM 67-06 M15-72086
FERROMAGNETIC RESONANCE IN A SERIES OF ALLOYS. PT. 2. BINARY ALLOYS OF COBALT WITH PLATINUM AND PALLADIUM, AND ONE IRON-PALLADIUM ALLOY
67-06 M15-72087
THE POSSIBILITY OF HIGH-FREQUENCY FERROMAGNETIC RESONANCE IN THIN MAGNETIC FILMS
67-06 M15-72341
MAGNETIC AND ELECTRICAL PROPERTIES OF COPPER CONTAINING SULPHIDES AND SELENIDES WITH SPINEL STRUCTURE 67-06 M16-71172
MAGNETIC PROPERTIES OF FE65 --NI1-XMNX--35 TERNARY ALLOYS 67-07 M15-72407
THE TEMPERATURE AND STRUCTURE DEPENDENCE OF THE FERROMAGNETIC PROPERTIES OF CHEMICALLY PRODUCED NICKEL FILMS 67-07 M15-72576

STRUCTURAL AND CHEMICAL ALTERATIONS OF DELTA FE2O3 AND THEIR EFFECT ON MAGNETIC PROPERTIES 67-07 M15-72824
CU-NMR IN PARAMAGNETIC AND FERROMAGNETIC CUCR2SE4 67-07 M15-73297
MAGNETIC PROPERTIES OF SPLAT-COOLED FE-CO-V ALLOYS 67-07 M15-73507
MAGNETIC FORM FACTOR OF NI IN THE PARAMAGNETIC STATE 67-07 M15-73543
MAGNETOELASTIC INTERACTION OF DISLOCATIONS AND FERROMAGNETIC DOMAIN WALLS AND TORSIONAL MICROCREEP EXPERIMENTS ON IRON AND NICKEL TUBES 67-07 M15-73565
RELAXATION PROCESSES FOR FERROMAGNETIC RESONANCE IN THIN FILMS 67-07 M15-73577
THE EFFECTS OF SPIN-WAVE EXCITATION UPON THE HALFWIDTH OF THE FERRIMAGNETIC RESONANCE 67-07 M15-73805
FERROMAGNETIC RESONANCE IN EVAPORATED THIN FILM OF MNSB 67-07 M15-73987
THE PARAMAGNETIC FORM FACTOR OF GADOLINIUM 67-07 M16-73585
TRANSFORMATION OF THE SECOND ORDER OF FE2O3 AT 685 C 67-08 M14-76049
NEW FERROMAGNETIC STATE OBSERVED DURING RECRYSTALLIZATION AND INDUCED MAGNETIC ANISOTROPY OF COLD ROLLED FERROMAGNETIC GAMMA-PHASE ALLOY 67-08 M15-74407
LONGITUDINAL MAGNETORESISTANCE EFFECT IN SINGLE CRYSTALS OF NICKEL-COPPER ALLOYS 67-08 M15-74427
BEHAVIORS OF SOME MAGNETIC COMPOUNDS UNDER INTENSE MAGNETIC FIELDS 67-08 M15-74439
FERROMAGNETISM IN AU4V 67-08 M15-74565
EXCHANGE ANISOTROPY IN THE MIXED PHASE OF GAMMA-FE2O3 AND ALPHA-FE2O3 67-08 M15-74607
FERROMAGNETIC RESONANCE IN SMALL PARTICLES OF NICKEL, COBALT AND IRON 67-08 M15-74636
MOSSBAUER EFFECT IN IRON-ALUMINIUM ALLOYS. PT. 1 67-08 M15-75226
MOSSBAUER EFFECT IN IRON-ALUMINIUM ALLOYS PT. 2 67-08 M15-75227
THE ORIGIN AND FORMATION OF DOMAIN STRUCTURE IN MAGNETOUNIAXIAL FERROMAGNETICS. PT. 2 67-08 M15-75256
MAGNETIC RESONANCE IN SINGLE-CRYSTAL TERBIUM METAL AT 100 GHZ 67-08 M15-75926
WEAK FERROMAGNETISM IN ANTIFERROMAGNETIC UO2 67-08 M15-75931
MAGNETIC PROPERTIES OF ZRZN2--ITINERANT ELECTRON FERROMAGNET 67-08 M15-76171
MOSSBAUER EFFECT STUDY OF FERROMAGNETISM AND FERROMAGNETIC RELAXATION IN ERAL2 67-08 M16-74471
MAGNETIC PROPERTIES OF THE ALLOY FE-RH IN STRONG MAGNETIC FIELDS 67-09 M15-76784
THE COMPOSITION AND PROPERTIES OF MAGNETITES OBTAINED FROM KERCH ORES 67-09 M15-76960
TEMPERATURE AND FIELD DEPENDENCES OF THE KNIGHT SHIFT IN METALS AND SEMICONDUCTORS 67-09 M16-76781
PROXIMITY EFFECTS BETWEEN SUPERCONDUCTORS AND FERROMAGNETIC DOMAINS 67-09 M16-77970
MOSSBAUER STUDY OF INTERMETALLIC FE5GE3 SYSTEM 67-10 M15-78442
MAGNETIC TRANSITIONS IN ALLOYS OF GADOLINIUM AND DYSPROSIUM 67-10 M15-78738
CRYSTAL STRUCTURE AND MAGNETIC PROPERTIES OF SOME RARE EARTH GERMANIDES 67-10 M15-79009
X-RAY DIFFRACTION CONTRAST ON FERROMAGNETIC DOMAIN WALLS IN FE-SI SINGLE CRYSTALS 67-10 M15-79012
HIGH-TEMPERATURE RESONANCE LOSSES IN SILICON-DOPED YTTRIUM-IRON GARNET --YIG-- 67-10 M15-79408
FERROMAGNETIC AND SPIN-WAVE RESONANCE IN THIN FILMS OF FE-NI ALLOYS 67-10 M15-79471
MAGNETIC PROPERTIES OF THE COMPOUND MN3GE2 IN STRONG MAGNETIC FIELDS 67-10 M15-79540
INVESTIGATION OF THE MAGNETIC STRUCTURE OF FERROMAGNETIC SUBSTANCES BY A MAGNETOOPTICAL APPARATUS WITH MICRON RESOLUTION 67-10 M15-79541
DEPENDENCE OF UNIDIRECTIONAL ANISOTROPY ON THE DEGREE OF ATOMIC ORDER IN A NI3MN ALLOY 67-10 M15-79837
MAGNETIZATION MEASUREMENTS OF SUPERCONDUCTING MO-RE-ALLOYS CONTAINING IRON 67-10 M16-78445
INTERACTIONS OF LONG RANGE AND PARAMAGNETIC IONS 67-10 M16-79370
CRYSTAL LATTICE PARAMETER AND STRUCTURAL DISTORTIONS IN FE-RH ALLOY DURING PHASE TRANSFORMATIONS 67-11 M13-80724
CRYSTAL STRUCTURE OF DYSPROSIUM AT 77 TO 300 K 67-11 M13-80787
THE MAGNETIC PROPERTIES OF THE MOLYBDENUM-IRON SOLID SOLUTION 67-11 M15-80372
VOLUME EFFECT FOR MAGNETIC TRANSITION TEMPERATURES OF RARE-EARTH-SCANDIUM ALLOYS 67-11 M15-80657
ELECTRICAL RESISTANCE FERROMAGNETIC CR-GE ALLOYS IN THE 20 TO 300 K. TEMPERATURE RANGE 67-11 M15-80747
PARAMAGNETIC EFFECTS OF THE ALTERNATING FIELD SUSCEPTIBILITY OF SUPERCONDUCTING TANTALUM 67-11 M15-80772
ANHYSTERETIC MAGNETIZATION PROCESS AND MOSSBAUER EFFECT IN IRON POWDER 67-11 M15-80936
MAGNETIC STUDY OF MARTENSITIC TRANSFORMATION OF STAINLESS STEEL 67-11 M15-81472
CRYSTALLOGRAPHIC STUDY OF THE COMPOSITION FEXGA2-XO3 USING POLARIZED NEUTRONS 67-11 M15-81674
ELECTROLESS COBALT PLATING WITH HYDRAZINE AS REDUCING AGENT. PT. 6. STUDIES ON ELECTROLESS PLATING OF COBALT AND ITS ALLOYS 67-12 M12-83510
MAGNETIC PROPERTIES OF ANOMALOUS NICKEL THIN FILMS 67-12 M15-81765
MICROMAGNETIC THEORY FOR MAGNETIZATION OF SINGLE CRYSTALS 67-12 M15-82221
DEPENDENCE OF PERMEABILITY OF GRAIN ORIENTED IRON-SILICON SHEET ON MAGNETIZATION FREQUENCY 67-12 M15-82224
TEMPERATURE DEPENDENCE OF FERROMAGNETIC RESONANCE IN POLYCRYSTALLINE NICKEL 67-12 M15-82228
TEMPERATURE DEPENDENCE OF THE FERROMAGNETIC RESONANCE LINEWIDTH IN THIN NI-FE FILMS 67-12 M15-82366
EXCHANGE ANISOTROPY IN OXIDIZED PERMALLOY THIN FILMS AT LOW TEMPERATURES 67-12 M15-82371
MAGNETIC SUSCEPTIBILITY OF AGF2 67-12 M15-82537
A CORRELATION OF THERMODYNAMIC VARIABLES FOR IRON-RICH IRON-NICKEL-CARBON ALLOYS 67-12 M15-82959
MAGNETIC STUDY OF THE SOLID SOLUTION, MN-P-FEP 67-12 M15-83105
THE MAGNETIC AND CRYSTALLOGRAPHIC PROPERTIES OF MNBI STUDIED BY NEUTRON DIFFRACTION 67-12 M15-83489

FERROMAGNETISM, ALLOYING EFFECTS
CONTRIBUTION TO THE KNOWLEDGE OF THE PHYSICAL PROPERTIES OF CU-MN SOLID SOLUTIONS AS DEPENDENT ON PRIOR THERMAL AND MECHANICAL TREATMENTS 67-05 M15-69844
INFLUENCE OF SMALL ADMIXTURES OF CO2 PLUS ON THE FERROMAGNETIC RESONANCE OF NI-ZN-CR FERRITES SUBJECTED TO MAGNETOTHERMAL TREATMENT 67-06 M15-70518
MAGNETIC SUSCEPTIBILITY OF NICKEL-SILICON ALLOYS 67-07 M15-73854
EXCHANGE ANISOTROPY OF FE65--NI1-XMNX--35 ALLOYS 67-12 M15-81764

FERROMAGNETISM, COMPOSITION EFFECTS
MOSSBAUER STUDIES OF ORDERED AND COLD-WORKED FE-AL ALLOYS CONTAINING 30 TO 50 AT. PER CENT ALUMINUM 67-07 M15-72647

FERROMAGNETISM, PRESSURE EFFECTS
EFFECT OF HYDROSTATIC PRESSURE ON THE MAGNETIC TRANSITION TEMPERATURES OF DY 67-04 M15-67479
PRESSURE EFFECT ON MAGNETIC TRANSITIONS IN CRS1.17 67-04 M15-67481
EFFECT OF PRESSURE ON MAGNETIC TRANSFORMATIONS IN MANGANESE ARSENIDE 67-06 M15-71829
EFFECT OF PRESSURE ON THE CURIE TEMPERATURE OF CRTE AND MNSB COMPOUNDS OF NICKEL ARSENIDE TYPE 67-10 M15-78717

FERROMAGNETISM, TEMPERATURE EFFECTS
THE MAGNETIC PROPERTIES OF SIGMA PHASE ALLOYS 67-01 M15-58669
FERROMAGNETIC RESONANCE IN NICKEL AT LOW TEMPERATURES 67-02 M15-60759

FERROMANGANESE
POSSIBILITY OF USING CARBONATE ORES TO OBTAIN FERROMANGANESE 67-06 M02-70157

FERROMANGANESE, ALLOYING
FERROMANGANESE HANDLING AND FEEDING 67-11 M04-80112

FERROMANGANESE, CASTING
CASTING OF FERROMANGANESE ON A CASTING MACHINE 67-07 M04-73262
FERROMANGANESE, GRINDING
DRY GRINDING OF FERROMAGANESE IN A NITROGEN ATMOSPHERE 67-09 M09-78129
FERROMANGANESE, HEAT TREATMENT
NITRIDING OF FERROMANGANESE 67-11 M10-80450
FERROMANGANESE, MELTING
EFFECT OF SLAG BASICITY AND SILICON CONTENT IN FERROMANGANESE ON THE TECHNICAL AND ECONOMIC EFFICIENCY OF BLAST FURNACE OPERATION 67-02 M04-59571
PRODUCTION OF FERROMANGANESE FROM FLUXED SINTER OBTAINED FROM A MIXTURE OF MANGANESE CONCENTRATE AND MANGANESE CONVERTER SLAG 67-03 M04-65962
PROCESSING 2ND GRADE MANGANESE ORES BY THE MONOCHARGE METHOD 67-06 M04-70372
LOSSES OF MANGANESE DURING VACUUM SMELTING OF FE-MN ALLOYS 67-10 M04-79867
SLAG CONDITIONS IN THE PRODUCTION OF FERROMANGANESE IN LARGE BLAST FURNACES 67-11 M04-80849
IMPROVING THE PRODUCTION OF MANGANESE ALLOYS 67-11 M04-81150
HOW MAGNESIUM AFFECTS HEAT INDEXES WITH REGARD TO FERROMANGANESE FROM LEAN ORES 67-12 M04-83469
FERROMANGANESE, PHYSICAL PROPERTIES
ALLOY FOR DEOXIDIZING STEEL 67-04 M04-66004
ANODIC POLATIZATION OF FERROMANGANESE AND CERTAIN OF ITS COMPONENTS IN ALKALINE SOLUTIONS OF POTASSIUM MANGANATE 67-11 M03-80454
FERROMANGANESE, REFINING
MELTING OF CARBON FERROMANGANESE FROM HYDROMETALLURGICAL MANGANESE CONCENTRATE 67-02 M04-59863
STUDY OF THE PRODUCTION OF FERROMANGANESE FROM CONCENTRATES OF CARBONATE ORES 67-08 M04-74579
DETERMINING THE PRODUCTIVITY OF BLAST FURNACES PRODUCING FERROMANGANESE, USING THE PLURAL CORRELATION METHOD 67-09 M04-77374
EFFECT OF BASICITY AND THE O2 CONTENT IN THE BURDEN BOUND TO MN AND FE ON PROCESSES OCCURRING DURING THE PRODUCTION OF REFINED FEMN 67-10 M04-78649
SOME PROBLEMS IN REFINING FERROMANGANESE IN MOLTEN ELECTROLYTES 67-11 M03-80427
FERROMANGANESE, SMELTING
TODAYS TREND TOWARDS LARGER ELECTRIC SMELTING FURNACES--SOME FEATURES IN DESIGN AND OPERATION 67-08 M04-75316
FERROMOLYBDENUM, INGOTS
OPTIMUM CONDITIONS FOR PRODUCING FERROMOLYBDENUM 67-04 M04-66211
FERROMOLYBDENUM, MELTING
MATERIALS BALANCE AND HEAT BALANCE FOR THE ALUMINIUM REDUCTION OF FERRO-MOLYBDENUM 67-12 M04-82404
FERRONICKEL
PRODUCTION OF FERRONICKEL WITH HIGH NICKEL CONTENT 67-05 M04-68302
FERRONICKEL, REFINING
REFINING CRUDE FERRONICKEL TO OBTAIN ALLOYING METAL 67-01 M04-57273
FERRONICKEL, ROASTING
A MATHEMATICAL MODELING STUDY OF THE KINETICS OF SELECTIVE OXIDATION ANNEALING OF FERRONICKEL IN A FLUID BED 67-06 M02-72105
FERROSILICON
PRODUCING CASTINGS OF INOCULATED IRON 67-04 M06-66426
FERROSILICON, ALLOYING ADDITIVE
EFFECT OF CONSTRUCTIONAL AND TECHNOLOGICAL FACTORS ON THE STRENGTH AND RELIABILITY OF CASTINGS OF HIGH-QUALITY IRON 67-08 M06-74592
DEOXIDIZING METAL IN HIGH-CAPACITY ARC FURNACES 67-12 M04-81866
FERROSILICON, BENEFICIATION
PRODUCTION AND USE OF GRANULATED FERROSILICON 67-01 M02-58294
FERROSILICON, MELTING
PRODUCTION OF 45 PER CENT FERROSILICON IN A CLOSED FURNACE 67-01 M04-57259
MELTING FERROALLOYS AT THE ALMAZNYANSK WORKS 67-02 M04-59867
VOLUMETRIC PROPORTIONING OF COKE BREEZE IN THE PRODUCTION OF FERROSILICON 67-02 M04-62148
COKE CHARGED IN MEASURED VOLUMES WHEN MELTING FERROSILICON 67-04 M04-68190
PRODUCING 45 PER CENT FERROSILICON ON A BRIQUETTED CHARGE 67-05 M04-68326
COMMERCIAL TESTS ON THE PRODUCTION OF 75 PER CENT FERROSILICON USING TRANSFORMER STEEL SCRAP INSTEAD OF STEEL CHIPS 67-05 M04-69688
USE OF COKE FROM THE CHARGE WITH INCREASED PARTICIPATION BY GAS COALS WHEN SMELTING 75 PER CENT FERROSILICON 67-06 M04-70742
PRODUCTION OF 45 PER CENT FERROSILICON USING A BRIQUETTED CHARGE 67-07 M04-72854
INDUSTRIAL EXPERIMENTS INTO USING TRANSFORMER STEEL SCRAP INSTEAD OF STEEL CHIPS WHEN PRODUCING 75 PER CENT FERROSILICON 67-07 M04-74074
SMELTING FERROSILICON IN LARGE BLAST FURNACES. --REPORT FROM THE NIZHNE-TAGIL PLANTS GROUP-- 67-10 M04-79825
SMELTING 75 PER CENT FERROSILICON WITH SPECIAL COKE 67-11 M04-81313
INDUSTRIAL SILICON AND FERROSILICON 67-12 M02-83164
XYLITE BRIQUET COKE AS A REDUCTING AGENT IN THE PRODUCTION OF HIGHER PERCENTAGE FERROSILICON 67-12 M04-83345
FERROSILICON, METAL POWDERS
STUDY OF FINELY-DISPERSED GRANULATED FERROSILICON 67-02 M04-62102
FERROSILICON, PHASES /STATE OF MATTER/
SOLUBILITY OF CALCIUM IN PHASE CONSTITUENTS OF HIGH-SILICON FERROSILICON 67-08 M14-74572
FERROSILICON, PHYSICAL PROPERTIES
VISCOSITY AND ELECTRICAL RESISTANCE OF FERROSILICOCHROME AND CHROME-VANADIUM PIG 67-11 M15-81438
FERROSILICON, POWDER METALLURGY
METHOD FOR PRODUCING DISPERSED FERROSILICON POWDER 67-02 M09-60093
GAS PRODUCER MAKES GRANULATED FERROSILICON POWDER 67-11 M09-81401
FERROSILICON, REFINING
REFINING FERROSILICON FROM ALUMINUM WITH FORMATION OF METALLIC MAGNESIUM 67-09 M04-76564
KINETICS OF CHARGE REDUCTION IN THE PRODUCTION OF 45 PER CENT-FERROSILICON 67-10 M04-79323
FERROSILICON, SMELTING
IMPROVEMENT OF PRACTICES FOR SHIFTING BLAST FURNACE OPERATION TO SMELTING FERROSILICON 67-02 M04-58852
FERROSILICON, VACUUM METALLURGY
METHOD FOR THE JOINT PRODUCTION OF CALCIUM AND LEAN FERROSILICON 67-02 M03-58887
FERROSILICON PROCESS
OPTIMUM CONDITIONS FOR PRODUCING FERROMOLYBDENUM 67-04 M04-66211
FERROTITANIUM, MELTING
ON THE MINERAL COMPOSITION OF THE SLAG FROM ALUMINOTHERMAL MELTING OF FERROTITANIUM 67-11 M13-81631
FERROTUNGSTEN, CHEMICAL ANALYSIS
ON THE DETERMINATION OF TIN IN FERROTUNGSTEN BY THE SPECTROPHOTOMETRIC METHOD 67-02 M19-59121
FERROUS ALLOYS
SEE ALSO ALLOY STEELS
CAST IRON
STEELS
AN IRON BASE ALLOY 67-02 M17-59663
HIGH-STRENGTH STEELS 67-06 M01-71183
FERROUS ALLOYS, ATOMIC PROPERTIES
HYPERFINE FIELDS IN FE-SI ALLOYS 67-07 M16-73525
PULSED NMR IN FE 67-07 M16-73527
FERROUS ALLOYS, ATOMIC STRUCTURE
X-RAY K ABSORPTION EDGES OF ALLOYS. PT. 2. NICKEL-COBALT AND NICKEL-IRON SOLID SOLUTIONS 67-11 M16-80119
FERROUS ALLOYS, BAND THEORY
STUDY OF THE STRUCTURE OF THE UNOCCUPIED PORTION OF THE 3D-BAND IN IRON AND COBALT BY X-RAY K-SPECTRA OF ABSORPTION 67-02 M16-62094
FERROUS ALLOYS, BONDING
EXPLOSIVE DONGING 67-12 M11-82989
FERROUS ALLOYS, CASTING
CASTINGS WITH INSERTS 67-01 M06-57974
PRODUCTION AND PROPERTIES OF ALNICO ALLOYS WITH COLUMNAR STRUCTURE 67-01 M06-58444
DIE CASTING FERROUS METALS 67-01 M06-58731
DIE MATERIALS PACE CASTING PROGRESS 67-03 M06-65491

FERROUS ALLOYS

TECHNOLOGICAL VALUES FOR DETERMINING RISER DIMENSIONS FOR IRON-CARBON-SILICON ALLOYS AND ESPECIALLY FOR CAST IRON. PT. 3. 67-06 M04-72282
NEW DEVELOPMENTS IN FERROUS DIE CASTING 67-08 MQ6-75490
CASTING HIGH-STRENGTH MOLDS FROM MAGNESIUM-INOCULATED IRON 67-08 M06-76273
DIE MATERIALS LEAD TO DIE CASTING PROGRESS 67-10 M06-78577
TECHNOLOGY OF PRODUCING CASTINGS IN V22H AND VKM ALLOYS 67-12 M06-82611

FERROUS ALLOYS, CASTINGS
GASES IN FE-C ALLOYS 67-04 M06-66639
WHY CASTINGS 67-09 M06-77978

FERROUS ALLOYS, CHEMICAL ANALYSIS
METHOD OF AND APPARATUS FOR DETERMINING THE OXYGEN CONTENT OF METALS 67-02 M19-60942
THE PRINCIPLES AND METHODS OF CORRECTION ON QUANTITATIVE ELECTRON PROBE MICROANALYSIS. PT. 2 67-04 M19-67725
THERMODYNAMIC BEHAVIOR OF COLUMBIUM CARBIDE, CARBONITRIDE, NITRIDE AND SULFIDE IN STEEL 67-07 M15-72492
SEPARATION PROCEDURE FOR THE ANALYSIS OF SMALL AMOUNTS OF IRON ALLOYS AND THEIR ISOLATED STRUCTURAL CONSTITUENTS 67-07 M19-73027
ANALYSIS OF ALLOYING ELEMENTS IN VARIOUS ALLOYS AND DETERMINATION OF SMALL AMOUNTS OF ELEMENTS BY X-RAY FLUORESCENT SPECTROSCOPY 67-08 M19-74403
THE DETERMINATION OF SMALL QUANTITIES OF PB AND BI IN ALNICO AND SIMILAR ALLOYS 67-09 M19-77588

FERROUS ALLOYS, CLEANING
ELECTROLYTIC DESCALING IN ALKALI SOLUTIONS 67-06 M12-71811

FERROUS ALLOYS, COATING
THE DEVELOPMENT OF TIN PLATING. PT. 3. WITH SPECIAL REFERENCE TO BRIGHT-TIN ELECTRODEPOSITION 67-01 M12-57560
METHOD OF PRODUCING A BLACK OXIDE COATING ON FERROUS METALS 67-02 M12-60947
DIP FORMING OF BIMETALLIC WIRE 67-03 M12-65616
ZINC AND ALUMINIUM DIFFUSION COATINGS 67-06 M12-72184
ZINC ELECTROPLATING 67-12 M12-82505

FERROUS ALLOYS, COATINGS
REVIEW OF DEPOSITED METALLIC FILMS FOR COMPUTER APPLICATION 67-06 M12-71380
PLATED-WIRE MEMORIES--UNIVACS BET TO REPLACE TOROIDAL FERRITE CORES 67-08 M12-74474
PRODUCTION OF NICKEL-IRON ALLOYS 67-08 M12-74614

FERROUS ALLOYS, CORROSION
SENSITIVITY TO STRESS CORROSION AND INTERGRANULAR ATTACK OF HIGH-NICKEL AUSTENITIC ALLOYS 67-01 M18-58513
ANODIC BEHAVIORS OF IRON, IRON CHROMIUM AND IRON-NICKEL ALLOYS IN SULFURIC ACID SOLUTION 67-02 M18-59976
THE FIRST PASSIVITY FILM OF FE, FE-CR, FE-NI ALLOYS RESULTING FROM SO4--ION 67-02 M18-59977
TEMPERATURE DEPENDENCY OF THE DISSOLUTION KINETICS AND PASSIVATION OF METALS AND ALLOYS. PT. 2. TEMPERATURE DEPENDENCY OF THE DISSOLUTION MECHANISM 67-02 M18-60113
THE CHARACTERISTICS OF TRANSGRANULAR STRESS-CORROSION CRACKING 67-03 M18-65997
THE RATE AT WHICH NIOBIUM-IRON AND NIOBIUM-COBALT ALLOYS ARE OXIDIZED AT HIGH TEMPERATURES 67-04 M18-66036
CORROSION AND ELECTROCHEMICAL BEHAVIOR OF FE-CR ALLOYS IN BOILING CONCENTRATED HNO3 67-04 M18-67279
EFFECT OF COLD WORK ON THE OXIDATION OF FE-CR ALLOYS IN WATER VAPOUR AT 600 C 67-05 M18-68638
THE SPALLING OF CHROMIUM OXIDE ON AN FE-CR ALLOY 67-05 M18-68641
PHOSPHORIC ACID PROCESSING--ALLOY SELECTED FOR USE IN WET PROCESS 67-05 M18-68798
THE ORIGIN, PREVENTION AND CONTROL OF LOW-TEMPERATURE CORROSION RESULTING FROM THE COMBUSTION OF FUEL OIL 67-05 M18-69343
OXIDATION OF FE-TI ALLOYS IN CO-CO2 MIXTURES 67-05 M18-69472
PITTING CORROSION OF 13CR-FE ALLOY IN NA2SO4 SOLUTIONS CONTAINING CHLORIDE IONS 67-05 M18-69837
CORROSION-RESISTANT ALLOYS IN CHLORIDE SOLUTIONS--MATERIALS FOR SURGICAL IMPLANTS 67-06 M18-70694
STUDIES ON THE OXIDATION OF FE-AL ALLOYS IN CARBON DIOXIDE AT HIGH-TEMPERATURES. PT. 1 67-06 M18-70793
THE INFLUENCE OF THE WATER COMPOSITION ON DECAY OF MATERIALS BY CAVITATION AND CORROSION 67-06 M18-71700
HIGH-TEMPERATURES CORROSION AND SPECIMEN PREPARATION 67-09 M18-76650
CRITERIA OF SOIL AGGRESSIVENESS TOWARDS BURIED METALS. PT. 2. ASSESSMENT OF VARIOUS SOILS 67-09 M18-77487
CORROSION RESISTANCE AT HIGH TEMPERATURES. PT. 17 67-09 M18-78201
ANODIC BEHAVIOR OF IRON-ALUMINUM ALLOYS IN SULFURIC ACID SOLUTION 67-09 M18-78236
ANODIC BEHAVIOR OF IRON-COBALT ALLOYS AND COBALT METAL IN SULFURIC ACID SOLUTIONS 67-09 M18-78237
CORROSION RESISTANCE AT HIGH TEMPERATURES. PT. 18 67-10 M18-78398
THERMODYNAMIC-KINETIC INTERPRETATION OF THE PASSIVATION PHENOMENA WITH FE-CR ALLOYS 67-10 M18-79090
FUNDAMENTAL STUDIES ON CORROSION BEHAVIORS OF IRON-SILICON ALLOYS. PT. 1. ANODIC BEHAVIORS OF IRON-SILICON ALLOY 67-10 M18-79606
THE HIGH-TEMPERATURE OXIDATION OF FE-CR ALLOYS IN THE COMPOSITION RANGE OF 25-95 PER CENT CR 67-10 M18-79963
THE BEHAVIOR OF AUSTENITIC FE-CR-NI STEELS AND OF THE NEW FEAL 40 ALLOY IN SUPERHEATED STEAM 67-11 M18-80355
THE EFFECT OF SUBSTITUTIONAL ELEMENTS ON THE STRESS-CORROSION CRACKING BEHAVIOUR OF PURE IRON-BASE ALLOYS 67-11 M18-80711
BENCH TESTING METALWORKING FLUIDS 67-12 M08-82913

FERROUS ALLOYS, CRYSTAL GROWTH
PREPARATION OF SINGLE CRYSTALS OF IRON AND IRON ALLOYS 67-02 M14-60622
OBTAINING SINGLE CRYSTALS OF IRON ALLOYED WITH SILICON BY THE NONCRUCIBLE ZONAL MELTING METHOD 67-04 M14-66024
FURNACE FOR THE PREPARATION OF THE HIGH MELTING POINT METAL SINGLE CRYSTALS 67-11 M14-81514

FERROUS ALLOYS, CRYSTAL LATTICES
EFFECT OF SLIGHT IMPURITIES ON THE CRYSTAL LATTICE PARAMETER OF IRON 67-01 M13-57362
STUDY OF IRON-NICKEL ALLOYS CLOSE TO NI3FE IN COMPOSITION. ORDERED STRUCTURE AS A FUNCTION OF HEAT TREATMENT 67-01 M14-57168
EFFECT OF MAGNETIZATION ON THE L2O ORDERING REACTION IN IRON-ALUMINUM ALLOYS 67-01 M14-58735
AGEING STUDY OF THE MARTENSITE IN IRON-NICKEL ALLOYS WITH ALUMINIUM ADDITIONS 67-02 M13-61685
COMPOUNDS WITH TH6MN23-TYPE STRUCTURES IN ALLOYS OF THE RARE-EARTH METALS WITH MANGANESE AND IRON 67-02 M13-61789
STUDY OF ORDERING STRUCTURE OF SOLID SOLUTION IN ALNICO ALLOY CONTAINING TITANIUM 67-02 M14-62074
STUDY OF THE ESTABLISHMENT OF ORDER KINETICS OF IRON-NICKEL ALLOYS BY MEASURING RESISTANCE 67-02 M14-62295
DISLOCATION THEORY OF SLIP GEOMETRY AND TEMPERATURE DEPENDENCE OF FLOW STRESS IN B. C. C. METALS 67-03 M13-65220
EFFECT OF CHROMIUM AND COBALT ON ROLLING TEXTURE OF IRON 67-04 M07-66620
STUDY OF THE CRYSTAL STRUCTURE OF YUNDK35T5 ALLOY IN OPTIMUM MAGNETIC STATE 67-04 M14-66494
PRODUCTION OF FE-CO ALLOYS IN HIGHLY-DISPERSED STATE AND STUDY OF THEIR CRYSTAL STRUCTURE 67-04 M14-67378
KIKUCHI MAPS FOR HCP AND BCC CRYSTALS 67-05 M13-69221
TRANSMISSION ELECTRON MICROSCOPIC OBSERVATION OF LATTICE DEFORMATION IN ANTIPHASE BOUNDARIES OF ORDERED FE-SI ALLOYS 67-05 M14-69786
THE OBSERVATION OF DISLOCATIONS WITH BURGERS VECTOR A --100-- IN A SINGLE CRYSTAL OF FE-SI ALLOY 67-06 M13-70593
STRUCTURES AND STRENGTH OF AUSFORMED STEEL 67-06 M13-71085

SUPPLEMENT TO ELECTRON DIFFRACTION AT LOW TEMPERATURE RADIAL DISTRIBUTION ANALYSIS OF A FILM COMPOSED OF VERY FINE CRYSTALLITES 67-06 M13-71548
ON THE NATURE OF THE K-STATE IN THE SYSTEM OF IRON AND ALUMINIUM 67-06 M14-70785
SECONDARY RECRYSTALLIZATION IN PURE IRON AND SOME OF ITS ALLOYS 67-06 M14-71300
SLIP AND THE CONCEPTION OF SPLITTING OF DISLOCATIONS IN BCC METALS 67-06 M14-71522
AN ORDERED STRUCTURE IN DILUTE IRON ALLOYS 67-06 M14-71616
ON THE HEXAGONAL CRYSTAL STRUCTURE OF IRON ALLOYS WITH TRANSITION METALS 67-06 M14-71867
THE DEFORMATION BEHAVIOR OF ISOAXIAL BICRYSTALS OF FE-3 PER CENT SI 67-06 M14-71966
REMARKS ON THE NUCLEATION OF MECHANICAL TWINS 67-06 M17-72242
THE EFFECT OF SOLUTE ON SLIP AND MECHANICAL TWINNING IN IRON ALLOYS 67-07 M13-73060
A COMPARISON OF THE USE OF ALUMINUM AND VANADIUM NITRIDES FOR MAKING GRAIN-ORIENTED SILICON-IRON 67-07 M13-73519
DISLOCATIONS IN GRAIN BOUNDARIES AND GRAIN BOUNDARY SLIDING 67-07 M13-73920
LATTICE PARAMETER CHANGE OF FE-RH ALLOYS DUE TO ANTIFERROMAGNETIC-FERROMAGNETIC TRANSFORMATION 67-07 M15-72959
A NOTE ON THE STRUCTURE AND GROWTH MECHANISM OF SPHEROIDAL GRAPHITE CRYSTALS IN ALLOYS CONTAINING CARBON 67-08 M14-74432
THE PRODUCTION OF COLUMNAR STRUCTURES IN HIGH-COBALT HIGH-TITANIUM PERMANENT MAGNET ALLOYS 67-08 M14-75985
DEFORMATION TWINNING IN NI AND FCC FE-NI ALLOYS 67-09 M13-76596
BEHAVIOR OF PASSING DISLOCATIONS IN SUPERLATTICES 67-09 M13-77440
INTERCRYSTALLITE STRUCTURE OF FE-CO ALLOYS AT HIGH DEGREES OF DEFORMATION 67-09 M13-77865
THE EFFECT OF CARBON AND NICKEL UPON THE STACKING-FAULT ENERGY OF IRON 67-11 M13-80107
CRYSTAL LATTICE PARAMETER AND STRUCTURAL DISTORTIONS IN FE-RH ALLOY DURING PHASE TRANSFORMATIONS 67-11 M13-80724
FINE FAULTS AND CRYSTAL STRUCTURES OF PRECIPITATES IN FE-MO AND FE-W ALLOYS 67-11 M13-80811
FAULTING IN COLD WORKED FE-SI ALLOY FILINGS 67-12 M13-82723
THE EFFECT OF SILICON CONTENT ON THE SECONDARY RECRYSTALLIZATION OF SILICON-IRON 67-12 M14-82589

FERROUS ALLOYS, DEFORMATION
A CRITICAL REVIEW OF THE PEIERLS MECHANISM 67-06 M17-71524
SLIP PLANES IN FE-3 PER CENT SI SINGLE CRYSTALS DEFORMED AT 77 K 67-06 M17-71526

FERROUS ALLOYS, DIFFUSION
THE EFFECT OF ALUMINUM ON THE STRESS-INDUCED DIFFUSION OF CARBON ATOMS IN ALPHA IRON 67-02 M14-60158
THE EFFECT OF CONCENTRATION ON THE INTERDIFFUSION COEFFICIENT OF CHROMIUM IN CHROMIUM-IRON ALLOYS 67-02 M14-61773
DETERMINATION OF THE DIFFUSION COEFFICIENT OF IMPURITIES BY ANELASTIC METHODS 67-04 M14-66223
OBSERVATION AND QUANTITATIVE MEASUREMENTS OF GRAIN BOUNDARY DIFFUSION PHENOMENA IN IRON AND COBALT 67-04 M14-67562
EFFECT OF ORDERING ON THE HYDROGEN PERMEABILITY OF IRON ALLOYS WITH COBALT 67-04 M14-67660
STUDY OF MUTUAL DIFFUSION IN BINARY SYSTEMS FORMING A CONTINUOUS SERIES OF SOLID SOLUTIONS, BY LOCAL X-RAY SPECTRAL ANALYSIS. PT. 1 67-04 M14-67915
SELF-DIFFUSION IN HIGHLY-DILUTED BINARY SOLUTIONS. PT. 3. EFFECT OF SN, SB, PB AND BI PHASE 67-04 M14-67919
DETERMINATION OF THE TRUE DIFFUSION COEFFICIENTS AND OF THE THERMODYNAMIC ACTIVITY BY INTERNAL FRICTION METHOD 67-06 M14-70339
STUDY OF SELF-DIFFUSION AND DIFFUSION OF IRON IN IRON-COPPER ALLOYS 67-06 M14-71396
THE SOLUBILITY AND DIFFUSION OF HYDROGEN IN IRON ALLOYS 67-07 M14-72684
INVESTIGATION OF THE KIRKENDALL EFFECT IN THE IRON-COPPER SYSTEM 67-07 M14-73472
MOBILITY OF ATOMS OF ALLOYED ELEMENTS IN AUSTENITE 67-08 M14-74958
DIFFUSION OF NICKEL IN BINARY ALLOYS OF IRON WITH NICKEL, MANGANESE AND CHROMIUM 67-08 M14-75578
THE DIFFUSION OF CARBON IN LIQUID FE-C-SI AND FE-C-S ALLOYS 67-08 M14-75663
INTERNAL FRICTION OF FE-CO-N AND FE-NI-N ALLOYS 67-09 M14-78203
EFFECTS OF CHROMIUM AND TUNGSTEN ON THE DIFFUSION AND THERMODYNAMIC ACTIVITY OF CARBON IN IRON ALLOYS 67-10 M14-78352
INFLUENCE OF HYDROGEN ON THE PROPERTIES OF IRON AND ITS ALLOYS 67-10 M14-78527
SOME LAWS REGARDING CHANGES IN THE PARAMETERS DO AND Q DURING DIFFUSION IN METALS AND ALLOYS 67-10 M14-79634
HYDROGEN SOLUBILITY IN LIQUID IRON ALLOYS 67-10 M14-79773
HERRING-NABARRO CREEP STUDIES ON THE SELF-DIFFUSION OF IRON IN THE PRESENCE OF SOLUTES 67-11 M14-80621
METHOD OF INVESTIGATING THE KINETICS OF THE INTERACTION OF TWO LIQUID PHASES UNDER CONTROLLED CONVECTION CONDITIONS 67-12 M14-82105
KINETICS OF THE SOLUTION OF NIOBIUM IN IRON-CARBON ALLOYS 67-12 M14-82403
HYDROGEN PERMEABILITY OF IRON AND STEEL AT ELEVATED TEMPERATURES 67-12 M14-82425

FERROUS ALLOYS, DISLOCATIONS
INFLUENCE OF TEMPERATURE AND INTERSTITIAL IMPURITIES ON THE ENERGY DISIPATION DURING SMALL DISLOCATION DISPLACEMENTS IN IRON 67-02 M13-59887

FERROUS ALLOYS, ELECTRICAL PROPERTIES
RESISTIVITY OF ORDERED AND DISORDERED IRON-NICKEL ALLOYS 67-02 M15-62193
HIGH-TEMPERATURE ELECTRICAL MATERIALS 67-02 M20-60591
ELECTRICAL RESISTANCE OF IRON-CARBON MELTS 67-04 M15-66087
EFFECT OF HEAT TREATMENT AT 280 TO 460 C. ON ELECTRICAL RESISTANCE OF 50N PERMALLOY 67-04 M15-66088
THE ANODIC POLARIZATION CURVES OF IRON-NICKEL-CHROMIUM ALLOYS 67-04 M18-66695
THERMOELECTRIC POTENTIAL MEASUREMENTS ON FE SPECIMENS 67-06 M15-70081
THE INTERRELATIONSHIP OF HYDROGEN DIFFUSION PARAMETERS AND KINETIC COEFFICIENTS IN FE-AL ALLOYS 67-08 M14-75275
EVIDENCE FOR TWO-CURRENT CONDUCTION IRON 67-09 M15-76590
FE-CO AND FE-V ALLOYS FOR PRESSURE CALIBRATION IN THE 130- TO 300-KBAR REGION 67-10 M15-79157
EFFECT OF MAGNETIC FIELD AND EXTERNAL LOADS ON THE THERMOELECTROMOTIVE FORCES OF FE-NI ALLOYS 67-10 M15-79219
STUDY OF THE ELECTRICAL RESISTANCE OF IRON-SILICON ALLOYS IN THE 800 TO 1700 C. TEMPERATURE RANGE 67-11 M15-80743
ABSOLUTE THERMOELECTRIC POWER OF VANADIUM-IRON ALLOYS BETWEEN 100 K. AND 600 K 67-12 M15-82292
THERMOELECTRIC POWER AND RESISTIVITY OF CHROMIUM-RICH CR-FE ALLOYS BETWEEN 25 AND 1000 C 67-12 M15-83260

FERROUS ALLOYS, ELEMENTARY PARTICLES
ANNIHILATION OF POSITRONS WITH ELECTRONS IN PLASTICALLY DEFORMED METALS WITH BCC LATTICES 67-04 M16-66001

FERROUS ALLOYS, FORGING
SUPERALLOY FORGINGS HOLD UP AS TEMPERATURES SOAR 67-12 M07-83174

FERROUS ALLOYS, GRAIN GROWTH
RECRYSTALLIZATION OF IRON-ALUMINUM ALLOYS 67-08 M14-74992
INFLUENCE OF THE DEGREE OF SWAGING DURING COLD ROLLING ON THE FORMATION OF THE RECRYSTALLIZATION TEXTURE IN THE N29K18 AND N47KH ALLOYS 67-08 M14-74993

FERROUS ALLOYS, HARDENING
STRENGTHENING OF AGEING FE-NI-TI ALLOYS IN THE PROCESS OF THE DIRECT AND REVERSE GAMMA-ALPHA-GAMMA TRANSFORMATION 67-02 M14-61171
A STUDY OF STRAIN AGING IN AUSTENITE 67-02 M17-60639
INFLUENCE OF COLD PLASTIC DEFORMATION ON MECHANICAL PROPERTIES OF QUENCHED CARBON-FREE IRON ALLOYS 67-02 M17-61222

PRECIPITATION-HARDENING BEHAVIOR AND MECHANICAL PROPERTIES OF HEAT-RESISTING ALLOYS CONTAINING UP TO 35 PER CENT COBALT 67-06 M17-70599

FERROUS ALLOYS, HEAT TREATMENT

THE REVERSION PHENOMENON IN IRON-NITROGEN ALLOYS 67-01 M14-58746

GETTING THE MOST OUT OF CARBONITRIDING 67-03 M10-65801

A STUDY OF GRAIN GROWTH IN FECO-V 67-03 M14-65091

INTERNAL FRICTION CHARACTERISTICS OF IRON-VANADIUM-NITROGEN ALLOYS 67-04 M10-67191

WORK HARDENING OF AUSTENITIC ALLOYS BY PHASE AND DISPERSION HARDENING 67-06 M10-71125

METALLOGRAPHY CF THE 475 C. EMBRITTLEMENT IN AN IRON-30 PER CENT CHROMIUM ALLOY 67-06 M13-71080

SOLID-SOLUTION STRENGTHENING IN IRON-BASE ALLOYS 67-06 M14-71608

RECENT ADVANCES IN HEAT TREATMENT METHODS 67-08 M10-74748

THE EFFECT OF ALUMINUM ON THE PRECIPITATION OF CARBON IN ALPHA IRON 67-08 M14-75664

EFFECT OF PRECIPITATION ON STRENGTHENING OF EI702 ALLOY 67-09 M10-77287

OBSERVATIONS OF PRECIPITATION HARDENING DURING HIGH-TEMPERATURE POLYMORPHOUS TRANSFORMATION 67-10 M10-79225

THE PREPARATION OF MONOCRYSTALS OF FE-CR ALLOYS BY CASE HARDENING FE WITH CR. ORIENTATIONS BEFORE AND AFTER TREATMENT 67-10 M14-79706

THE CAUSES OF INCREASED STRENGTH DUE TO AUSFORMING TREATMENT 67-12 M08-83348

HEAT TREATMENT OF CAST HIGH CARBON MULTIALLOYED ALLOY 67-12 M10-81720

FERROUS ALLOYS, LIQUID METALS

MEASUREMENT OF OXYGEN ACTIVITY IN IRON, IRON-SILICON MANGANESE, AND IRON-MANGANESE MELTS USING SOLID ELECTROLYTE GALVANIC CELLS 67-12 M15-82741

FERROUS ALLOYS, MACHINING

TEMPERATURE KEY TO MACHINING 67-08 M08-75530

FERROUS ALLOYS, MAGNETIC PROPERTIES

ORDER-DISORDER TRANSFORMATION AND MAGNETIC PROPERTIES IN IRON-NICKEL ALLOYS 67-01 M14-58659

PRECIPITATION PROCESSES IN ALNICO 67-01 M14-58661

EFFECT OF TEMPERING ON THE PROPERTIES OF A MAGNETICALLY-HARD ALLOY OF THE SYSTEM FE-NI-CR 67-01 M15-57343

EFFECT OF THERMOMAGNETIC TREATMENT IN A TRANSVERSE FIELD ON THE MAGNETIC PROPERTIES OF ALLOYS OF THE SYSTEM FE-NI-CO 67-01 M15-57363

FERROMAGNETIC CURIE TEMPERATURES OF SOME IRON-ZINC SOLID SOLUTIONS 67-01 M15-57564

COMPARISON OF MAGNETIC MEASUREMENTS AND THEORETICAL PREDICTIONS FOR NICKEL-IRON FILMS OVER A WIDE COMPOSITION RANGE 67-01 M15-57569

ON PARTICULARITIES OF MAGNETIC PROPERTIES OF THIN FILMS WITH EXCHANGE ANISOTROPY 67-01 M15-57577

THE REMAGNETIZATION OF THIN FERROMAGNETIC LAYERS ALONG THE AXIS OF LIGHT MAGNETIZATION 67-01 M15-57583

HYSTERESIS LOOP ASYMMETRY INDUCED BY MAGNETIC ANNEALING IN FE-AL ALLOY 67-01 M15-58660

MINOR LOOP LOSS PREDICTIONS IN DEVICES USING PERMANENT MAGNET MATERIALS 67-01 M15-58668

THE MAGNETIC PROPERTIES OF SIGMA PHASE ALLOYS 67-01 M15-58669

FIELDS IN CUBICAL TEXTURE IN THE PRESENCE OF A BIAS FIELD 67-01 M15-58671

MAGNETIC AND MECHANICAL PROPERTIES OF ANKOTI-5I ALLOYS 67-02 M15-59638

INVESTIGATION OF THE MAGNETIC PROPERTIES AND HARDNESS IN IRON-COBALT ALLOYS 67-02 M15-59919

ON THE YIELD OF SULFUR AND THE INFLUENCE OF SULFUR ON THE MAGNETIC PROPERTIES OF TITANIUM CONTAINING HIGH-COERCIVE FORCE ALNICO MAGNET ALLOYS WITH SULFUR 67-02 M15-60141

EFFECT OF MELTING METHODS ON THE PROPERTIES OF IRON-ALUMINIUM ALLOYS 67-02 M15-60290

MAGNETIC STUDIES OF RELAXATION PHENOMENA IN ALPHA-FE-C ALLOYS 67-02 M15-61533

EFFECT OF ELASTIC STRESSES ON THE MAGNETIC PROPERTIES OF A HIGH-COERCIVITY ALLOY ON THE SYSTEM FE-NI-CR 67-02 M15-61665

MAGNETIC PROPERTIES OF IRON-NEODYMIUM ALLOYS 67-02 M15-61678

RAISING THE LEVEL OF THE MAGNETIC PROPERTIES OF GRAIN-ORIENTED 50NP STEEL 67-02 M15-61878

EFFECT OF HEAT TREATMENT ON THE MAGNETIC PROPERTIES OF CERTAIN ALLOYS OF THE SYSTEMS FE-MN AND FE-NI 67-02 M15-61928

ANISOTROPY DISTRIBUTION AND NATURAL FERROMAGNETIC RESONANCE IN SINGLE-DOMAIN PARTICLES OF FE AND FE-CO ALLOY 67-02 M15-62072

MAGNETOSTRICTION OF THE METAMAGNETIC IRON-RHODIUM ALLOY 67-03 M15-65305

EFFECT OF ISOTHERMAL TREATMENTS ON MAGNETIC PROPERTIES OF 50N PERMALLOY 67-03 M15-65969

HYPERFINE MAGNETIC FIELDS IN IRON-PALLADIUM ALLOYS 67-03 M16-65139

THE TEMPERATURE DEPENDENCE OF HYPERFINE FIELDS IN DILUTE FECU ALLOYS 67-03 M16-65141

MOSSBAUER EFFECT IN IRON CONTAINING THIRD SERIES TRANSITION ELEMENTS 67-03 M16-65745

HEAT TREATMENT OF HIGH-COERCIVITY ALLOYS OF THE MAGNICO TYPE 67-04 M10-66379

SUSCEPTIBILITY OF THE PARAPROCESS OF ELINVAR ALLOYS 67-04 M15-66481

MAGNETIZATION PROCESSES IN THE HIGH-FIELD RANGE OF FERROMAGNETICS MADE BY PRESSING FERROMAGNETIC PARTICLES 67-04 M15-66484

PHASE TRANSFORMATIONS IN COLD STRAINED IRON-MANGANESE ALLOYS 67-04 M15-66621

INCREMENTAL SUSCEPTIBILITY MATRICES AND THEIR MEASUREMENT IN FE-NI CUBIC TEXTURES 67-04 M15-67056

TEMPERATURE DEPENDENCE AND CRITICAL TEMPERATURE OF MAGNETIC DOMAIN STRUCTURES IN THIN FILMS 67-04 M15-67471

ON MAGNETIC PROPERTIES OF FE-CO FINE PARTICLE MAGNET 67-04 M15-67577

SHOCK-WAVE COMPRESSION OF 30 PER CENT NI-70 PER CENT FE ALLOYS.. THE PRESSURE-INDUCED MAGNETIC TRANSITION 67-05 M15-69218

NUCLEATION IN PULSED MAGNETIC REVERSAL OF CYLINDRICAL POLYCRYSTALLINE FERROMAGNETIC FILMS 67-05 M15-69642

DEVELOPMENT AND EVALUATION OF MAGNETIC AND ELECTRICAL MATERIALS CAPABLE OF OPERATING IN THE 800 TO 1600 F. TEMPERATURE RANGE 67-06 M01-71855

ON THE MAGNETIC PROPERTIES OF INVAR ALLOYS 67-06 M15-70900

THE CONSTANTS OF MAGNETOSTRICTION OF IRON CONTAINING 2.56 WT. PER CENT SILICON 67-06 M15-71862

PULSED MAGNETIC REVERSAL OF CYLINDRICAL POLYCRYSTALLINE THIN FERROMAGNETIC FILMS 67-06 M15-72378

MAGNETIC PROPERTIES OF FE65 --NI1-XMNX--35 TERNARY ALLOYS 67-07 M15-72407

MAGNETIC PROPERTIES AND HARDNESS OF IRON-COBALT ALLOYS 67-07 M15-72574

MOSSBAUER STUDIES OF ORDERED AND COLD-WORKED FE-AL ALLOYS CONTAINING 30 TO 50 AT. PER CENT ALUMINUM 67-07 M15-72647

MAGNETOSTRICTION SATURATION OF FESI SINGLE CRYSTALS CONTAINING 4.4 WT PER CENT SI BETWEEN ROOM TEMPERATURE AND CURIE POINT 67-07 M15-72749

VOLUME- AND TEMPERATURE DEPENDENCE OF THE ANISOTROPIC MAGNETOSTRICTION OF IRON, NICKEL AND SOME IRON-ALLOYS 67-07 M15-73303

THE HYPERFINE MAGNETIC FIELD ON RH103 NUCLEI IN THE ORDERED FE0.52RH0.48 ALLOY 67-07 M15-73494

EFFECT OF ORDERING ON ROLLING-INDUCED MAGNETIC ANISOTROPY IN FECO-2V 67-07 M15-73504

SOME CONCEPTS CONCERNING THE NEW HIGH-PERMEABILITY 50-50 NICKEL-IRON ALLOYS 67-07 M15-73537

ANHYSTERETIC MAGNETIZATION OF NI-FE TAPE CORES 67-07 M15-73539

CORRELATION OF ELECTRONIC SPECIFIC HEATS AND CURIE TEMPERATURES IN DILUTE ALLOYS OF IRON 67-07 M15-73541

EFFECT OF ALUMINUM ON THE SATURATION MOMENTS OF FE-NI ALLOYS 67-07 M15-73548

HIGH-TEMPERATURE MAGNETOSTRICTION IN ALLOYS 67-07 M15-73564

LORENTZ MICROSCOPY IN POLYCRYSTALLINE NI-FE FILMS 2000-A THICK 67-07 M15-73571

DEPENDENCE OF MAGNETIC ANISOTROPY ON THE CRYSTAL STRUCTURE OF NI-FE THIN FILMS 67-07 M15-73576

THE MEASUREMENT OF SATURATION MAGNETOSTRICTION OF

POLYCRYSTALLINE AND FERROMAGNETIC ALLOYS AND FERRITES IN THE MINUS 140 TO PLUS 160 C. RANGE 67-07 M15-73802
MAGNETIC PROPERTIES ON SIGMA-PHASE OF FE-V ALLOYS 67-07 M15-73993
NEW FERROMAGNETIC STATE OBSERVED DURING RECRYSTALLIZATION AND INDUCED MAGNETIC ANISOTROPY OF COLD ROLLED FERROMAGNETIC GAMMA-PHASE ALLOY 67-08 M15-74407
LOW TEMPERATURE TREATMENT OF N.K.S. PERMEANENT MAGNET OF AL-NI-CO TYPE 67-08 M15-74431
CHANGE IN FORM OF DOMAIN STRUCTURE IN SINGLE CRYSTALS OF HIGH-COERCIVITY ALNICO ALLOY DURING MAGNETIC REVERSAL 67-08 M15-74635
IRON-COBALT ALLOYS WITH ADDITIONS OF SMALL AMOUNTS OF RARE EARTH ELEMENTS PR, GD OR HO 67-08 M15-75948
SHOCK-INDUCED SECOND-ORDER PHASE CHANGE IN INVAR 67-08 M15-76254
NONRESONANT MEASUREMENT OF T1 IN FERROMAGNETIC ALLOYS AT VERY LOW TEMPERATURES 67-08 M16-75832
MECHANICAL PROPERTIES OF FE-CR ALLOYS EMBRITTLED AT 475 C 67-08 M17-74438
MAGNETIC PROPERTIES OF THE ALLOY FE-RH IN STRONG MAGNETIC FIELDS 67-09 M15-76784
MAGNETIC ANISOTROPY OF THIN FILMS OF COBALT AND FE-CO-NI ALLOYS 67-09 M15-77787
CHANGES IN MAGNETIC PROPERTIES OF FE-AL-NI-CO-TI HIGH-COERCIVITY PERMANENT MAGNET ALLOYS DURING THE AGING PROCESS 67-09 M15-78208
TEMPERATURE DEPENDENCE OF MAGNETOCRYSTALLINE ANISOTROPY OF AN FE-AL ALLOY NEAR THE CONCENTRATION FE3AL 67-10 M15-79025
EFFECT OF STACKING FAULTS AND TWINS ON THE COERCIVE FORCE OF THIN MAGNETIC FILMS 67-10 M15-79162
DEVELOPMENT AND EVALUATION OF MAGNETIC AND ELECTRICAL MATERIALS CAPABLE OF OPERATING IN THE 800 TO 1600 F. TEMPERATURE RANGE 67-10 M15-79200
ELASTIC HYSTERESIS OF THERMOELECTROMOTIVE FORCE OF FE-NI ALLOYS 67-10 M15-79233
FERROMAGNETIC AND SPIN-WAVE RESONANCE IN THIN FILMS OF FE-NI ALLOYS 67-10 M15-79471
ON THE THEORY OF THERMOMAGNETIC TREATMENT OF HIGH COERCIVE ALLOYS OF THE TICONAL TYPE 67-10 M15-79838
CONTRIBUTION TO THE STUDY OF THE PHENOMENA ASSOCIATED WITH ORDER-DISORDER TRANSITIONS IN FE-NI ALLOYS 67-10 M15-80018
HEAT TREATMENT OF HIGH-COERCIVITY ALLOYS OF THE MAGNICO TYPE 67-11 M10-80981
EFFECT OF SLIGHT TITANIUM ADDITIONS ON THE PROPERTIES OF CRYSTAL-ORIENTED ALNICO ALLOYS 67-11 M15-80344
INDUCED UNIAXIAL MAGNETIC ANISOTROPY OF FE-AL ALLOYS AT LOW CONCENTRATIONS 67-11 M15-80625
DEVIATIONS FROM THE BLOCK RULE IN IRON-COBALT ALLOYS 67-11 M15-80744
ELECTRICAL RESISTANCE FERROMAGNETIC CR-GE ALLOYS IN THE 20 TO 300 K. TEMPERATURE RANGE 67-11 M15-80747
METALLIC, SOFT-MAGNETIC MATERIALS FOR ULTRASONIC TRANSDUCERS 67-11 M15-80867
ANTIFERROMAGNETISM OF GAMMA-FEMN ALLOYS. PT. 2. NEUTRON DIFFRACTION AND MOSSBAUER EFFECT STUDIES 67-12 M15-81762
ANTIFERROMAGNETISM OF GAMMA-FEMN ALLOYS. PT. 3. SPECIFIC HEAT AND THERMOELECTRIC POWER STUDIES 67-12 M15-81763
EXCHANGE ANISOTROPY OF FE65--NI1-XMNX--35 ALLOYS 67-12 M15-81764
MAGNETIC SUSCEPTIBILITY OF FACE-CENTERED CUBIC IRON-RHENIUM ALLOYS 67-12 M15-82013
TIME AND TEMPERATURE DEPENDENCE OF COERCIVITY OF ALNI A ALLOY 67-12 M15-82231
THE EFFECT OF SURFACE ON THE PROPERTIES OF HIGHLY DISPERSED FERROMAGNETIC POWDERS 67-12 M15-82322
MAGNETIC ANISOTROPY OF IRON-COBALT ALLOYS 67-12 M15-82325
NEW RESULTS CONCERNING SOFT-MAGNETIC FE-NI ALLOYS WITH NI CONTENTS BETWEEN 50 AND 60 PER CENT --EFFECT OF CRYSTAL ORIENTATION AND ORDERING OROCESSES-- 67-12 M15-83145
AMORPHOUS FERROMAGNETIC PHASE IN IRON-CARBON-PHOSPHORUS ALLOYS 67-12 M15-83273
THERMAL RESEARCH INTO THE MAGNETOSTRICTION OF AN FECO ALLOY 67-12 M15-83305

FERROUS ALLOYS, MASS TRANSFER
MASS TRANSFER IN TWO IRON-NICKEL ALLOYS 67-06 M15-70365

FERROUS ALLOYS, MECHANICAL PROPERTIES
THE EFFECT OF MN CONTENT ON THE DAMPING BEHAVIOR OF N-CONTAINING FERROUS ALLOYS 67-01 M17-57382
INVESTIGATION OF DAMPING IN NITRIDED FE-MO AND FE-V ALLOYS 67-01 M17-57383
CRYOGENIC TENSILE PROPERTIES OF SELECTED AEROSPACE MATERIALS 67-01 M17-57621
SHEAR STRENGTH OF SEVERAL ALLOYS AT LIQUID-HYDROGEN TEMPERATURES 67-01 M17-57625
MECHANICAL PROPERTIES OF EPSILON- AND GAMMA-PHASES IN IRON-MANGANESE ALLOYS 67-01 M17-58055
STUDY OF THE PROPERTIES OF PURE IRON-ALUMINIUM ALLOYS CONTAINING UP TO 2 PER CENT AL 67-01 M17-58445
ELECTRON MICROSCOPIC STUDY OF DEFORMATION BEHAVIOR OF IRON-CHROMIUM ALLOY AGED AT 470 C 67-01 M17-58744
GRAIN BOUNDARY RELAXATIONS IN IRON-CHROMIUM ALLOYS 67-02 M17-58955
THE PROPERTIES OF LOW-CARBON IRON-NICKEL-CHROMIUM MARTENSITES 67-02 M17-59426
DISLOCATION MECHANISMS FOR PLASTIC FLOW IN AN IRON-MANGANESE ALLOY AT LOW TEMPERATURES 67-02 M17-59429
RELATIONSHIP BETWEEN STEADY-STATE CREEP RATE AND MAGNETIC TRANSFORMATION TEMPERATURE IN FERRITIC FERRITIC IRON-CHROMIUM ALLOYS 67-02 M17-59981
INCREASE IN THE HIGH-TEMPERATURE STRENGTH OF IRON-NICKEL ALLOY BY PHASE HARDENING 67-02 M17-60300
THE FRACTURE OF IRON-3 PER CENT SILICON SINGLE CRYSTALS CONTAINING STABLE MICROCRACKS 67-02 M17-60650
CERTAIN FEATURES ASSOCIATED WITH THE K-STATE IN THE ALLOYS NI-CR, NI-CR-MO AND FE-NI-CR-MO 67-02 M17-61170
STEELS AND ALLOYS FOR CRYOGENIC APPLICATIONS 67-02 M17-61982
EFFECT OF PLASTIC DEFORMATION AND PRECIPITATION HARDENING ON INTERNAL FRICTION PARAMETERS OF FE-MN AND FE-NI AUSTENITIC ALLOYS 67-02 M17-62088
BRITTLENESS OF 475 C. IRON-CHROMIUM ALLOYS 67-02 M17-62095
DISPERSION STRENGTHENING 67-03 M14-65331
RADIATION DAMAGE IN INCOLOY-800 67-03 M17-65018
THE STRENGTH OF FERROUS MARTENSITES 67-03 M17-65330
EFFECT OF ORDERING ON HIGH-TEMPERATURE CREEP OF FE-AL ALLOYS 67-03 M17-65790
SUBSTITUTIONAL-INTERSTITIAL INTERACTION AND THE ANOMALOUS SNOEK PEAK IN FE-V-N ALLOYS 67-03 M17-65875
THE EFFECT OF CERTAIN ALLOYING ELEMENTS ON THE ELASTIC MODULUS AND THE POSITION OF INTERNAL FRICTION AT HIGH TEMPERATURE IN IRON ALLOYS 67-03 M17-65950
ASPECTS OF BRITTLENESS AT HIGH TEMPERATURES FOR FE-AL ALLOY WITH 40 AT. PER CENT ALUMINIUM 67-04 M17-66048
UTILIZATION OF PLASTIC FLOW LEADING TO LONG FATIGUE LIFE IN ORDERED ALLOYS 67-04 M17-66127
BRITTLENESS OF FE-25 PER CENT CR-5 PER CENT AL CAST ALLOY 67-04 M17-66380
EFFECT OF NITROGEN AND MANGANESE ON RECOVERY RATE AND FRICTION STRESS DURING CREEP OF IRON 67-04 M17-66995
EFFECT OF PLASTIC DEFORMATION AND SUBSEQUENT HEAT TREATMENT ON YOUNGS MODULUS AND CRYSTALLOGRAPHIC TEXTURE OF FE-NI-TI INVAR-TYPE ALLOYS 67-04 M17-67386
ORIENTATION DEPENDENCE OF YIELD STRENGTH IN IRON ALLOY SINGLE CRYSTALS 67-04 M17-67549
PRECIPITATION HARDENING IN IRON-MOLYBDENUM ALLOY 67-04 M17-67550
STUDY OF THE MECHANICAL PROPERTIES OF SILICON-CONTAINING FERRITE. THE INFLUENCE OF CARBON 67-05 M17-69112
A ZENER-DAMPING PEAK IN FE-4 WT PER CENT SI 67-05 M17-69770
INTERNAL FRICTION OF FE-CR-N ALLOYS AND PRECIPITATION OF CHROMIUM NITRIDE 67-05 M17-69854
THE PLASTIC DEFORMATION OF IRON-11 AT. PER CENT

MOLYBDENUM SOLID SOLUTION ALLOY 67-06 M17-70447
DEVELOPMENT OF IMPROVED WROUGHT ALLOYS FOR REFORMER TUBES 67-06 M17-70535
FRACTURE OF IRON-BASE SOLID-SOLUTION ALLOYS 67-06 M17-70625
THE MODULUS OF ELASTICITY OF FE-AL ALLOYS AS A FUNCTION OF THE TEMPERATURE AND AMOUNT OF ALUMINUM 67-06 M17-70886
YIELDING AND PLASTIC FLOW IN A POLYCRYSTALLINE INTERSTITIAL-FREE FE-0.15 PER CENT TI ALLOY 67-06 M17-71083
ON SERRATED YIELDING AND NEGATIVE STRAIN-RATE SENSITIVITY 67-06 M17-71087
ADDITIONAL SNOEK PEAK DUE TO CARBON IN FE-V-C ALLOYS 67-06 M17-71549
SNOEK PEAKS IN TERNARY IRON-NITROGEN ALLOYS 67-06 M17-71960
LOW-TEMPERATURE EMBRITTLEMENT OF IRON, IRON ALLOYS, AND STEELS BY NEUTRON IRRADIATIONS 67-07 M17-73379
THE FATIGUE OF CU-NI-FE ALLOYS 67-07 M17-73921
KINETICS OF SNOEK ORDERING AND COTTRELL ATMOSPHERE FORMATION IN FE-N SINGLE CRYSTALS 67-07 M17-73923
MECHANICAL PROPERTIES OF HOT EXTRUDED OR HOT PRESSED DISPERSION STRENGTHENED IRONS CONTAINING AL2O3, MGO AND SIO2 PARTICLES 67-08 M17-74422
PRECISE, CONTINUOUS AND RAPID MEASUREMENTS OF DYNAMIC ELASTIC CONSTANTS AND INTERNAL FRICTION BY THE VIBRATOR-CONTROLLED OSCILLATOR SYSTEM 67-08 M17-74436
ROLLING TEXTURE AND ELASTIC ANISOTROPY OF THE KOVAR ALLOY 67-08 M17-74994
ON SUBSTITUTIONAL RELAXATIONS IN AN IRON-22.5 PER CENT CHROMIUM ALLOY 67-08 M17-75583
EFFECTS OF STRESS CHANGES ON CREEP RESISTANCE OF FE-MN-N ALLOYS 67-08 M17-75817
THE CRYSTALLOGRAPHIC ORIENTATION DEPENDENCE OF SNOEK-TYPE INTERNAL FRICTION PEAKS OF AN FE-SI ALLOY 67-08 M17-75935
TORSIONAL DUCTILITY AND STRENGTH OF IRON-CARBON ALLOYS AT ELEVATED TEMPERATURE 67-08 M17-75975
TORSION TESTING AS A MEANS OF ASSESSING DUCTILITY AT HIGH TEMPERATURES 67-08 M17-76142
MECHANICAL STRENGTH OF FE-AL40 AFTER QUENCHING 67-08 M17-76216
INFLUENCE OF A SMALL ADDITION OF URANIUM ON THE MECHANICAL AND MAGNETIC PROPERTIES OF A 50 PER CENT NI-FE-NI ALLOY 67-08 M17-76233
THE DEFORMATION BEHAVIOR OF NON-ISO-AXIAL BICRYSTALS OF FE-3 PER CENT SI 67-09 M17-77920
INTERNAL FRICTION IN IRON-MANGANESE-NITROGEN ALLOYS 67-10 M17-78331
HOT TORSIONAL RUPTURE OF AUSTENITIC AND FERRITIC ALLOYS 67-10 M17-78678
EFFECT OF HYDROGEN ON THE CREEP RUPTURE PROPERTIES OF IRON 67-10 M17-79373
INTERNAL FRICTION IN IRON-NICKEL HIGH-TEMPERATURE HARD ALLOYS 67-10 M17-79745
EFFECT OF CERTAIN ALLOYING ELEMENTS ON THE ELASTIC MODULUS AND THE POSITION OF THE HIGH-TEMPERATURE BRANCH OF INTERNAL FRICTION IN FERROALLOYS 67-10 M17-80075
GRAIN-BOUNDARY DAMPING IN 16 AND 22.5 PER CENT CHROMIUM-IRON ALLOYS 67-11 M17-80108
MICROSTRUCTURE AND MECHANICAL PROPERTIES OF AN IRON-NICKEL-BASE ALLOY WITH ALUMINIUM AND TITANIUM ADDITIONS AFTER VARIOUS THERMAL AND THERMOMECHANICAL TREATMENTS 67-11 M17-80373
BRITTLENESS OF THE CAST FE-25CR-5AL ALLOY 67-11 M17-80982
THE RELATIONSHIP BETWEEN CHANGES IN FINE STRUCTURE AND THE MICROPLASTIC STRAIN RESISTANCE OF METALS AND ALLOYS 67-11 M17-81159
FE-36 PER CENT NI WITH LOW THERMAL EXPANSION FOR CRYOGENIC APPLICATIONS 67-12 M01-83342
PRECIPITATION STRENGTHENING OF FE-6 AT . PER CENT MO 67-12 M10-83052
PLASTICITY OF FE-NI ALLOYS 67-12 M17-81714
BEHAVIOR OF ORDERING ALLOYS UNDER VARIOUS STRAIN CONDITIONS 67-12 M17-82343
THE MECHANISM OF HIGH TEMPERATURE STEADY STATE CREEP OF METALS AND ALLOYS 67-12 M17-82416
THE EFFECT OF NOBLE METAL ADDITIONS ON THE TOUGHNESS OF IRON-CARBON ALLOYS 67-12 M17-82760
THE INFLUENCE OF A FINE DISPERSION ON THE CLEAVAGE STRENGTH OF IRON 67-12 M17-82963
THE STRENGTH OF FERRITE AND OF MARTENSITE AS FUNCTIONS OF COMPOSITION, TEMPERATURE AND STRAIN RATE 67-12 M17-83063
ELASTIC AND FATIGUE PROPERTIES OF VACUUM REMELTED VERSES AIR-MELTED NI-SPAN-C ALLOY 902 FOR BOURDON TUBES 67-12 M17-83251

FERROUS ALLOYS, MELTING
EVAPORATION OF MANGANESE, COPPER AND TIN FROM MOLTEN IRON UNDER VACUUM 67-01 M04-58318
CONTROLLED-ENVIRONMENT MELTING 67-03 M06-65067
LEVIATION MELTING APPARATUS FOR PHASE EQUILIBRIA STUDIES 67-03 M10-65985
IMMISCIBLE BEHAVIOR IN THE IRON-INDIUM SYSTEM 67-07 M13-73856
DEVELOPMENT AND ADOPTION OF TECHNOLOGY FOR BF MELTING OF VANADIUM IRON FROM KACHKANARSK ORES 67-09 M04-77055
VACUUM MELTED SPECIAL ALLOYS FOR AEROSPACE APPLICATIONS 67-11 M04-80564
HOW ALLOYING ELEMENTS AFFECT OXYGEN AND NITROGEN CONTENT IN STEEL FROM AN ARC VACUUM FURNACE 67-11 M04-81630
RELATIONSHIP BETWEEN NONMETALLIC INCLUSIONS IN FERROALUMINUM ALLOYS AND MELTING METHODS 67-12 M04-83473

FERROUS ALLOYS, METAL FORMING
FEASIBILITY OF OBTAINING MICROWIRE WITHOUT CURLS 67-10 M07-78441

FERROUS ALLOYS, METAL WORKING
SHOCK THERMOMECHANICS 67-02 M07-61122
METALWORKING 67-05 M01-69601
EXPLOSIVE-FORMING CHARACTERISTICS OF MATERIALS 67-06 M07-71514
PRESSURE SHAPING OF IRON-ALUMINUM ALLOYS 67-12 M07-83329

FERROUS ALLOYS, METALLOGRAPHY
METHODS OF STUDYING TEXTURE IN ELECTROLYTIC DEPOSITS 67-03 M13-65105
NONMETALLIC INCLUSIONS IN THE FE-P-O SYSTEM 67-03 M13-65776
THE DIFFERENTIATION BETWEEN LOW AND HIGH PHOSPHORUS ZONES IN IRON BY ETCHING 67-06 M13-71753
METHODS OF STUDYING TEXTURE IN ELECTROLYTIC DEPOSITS 67-07 M13-72787

FERROUS ALLOYS, MICROSCOPY
METALLURGICAL INVESTIGATIONS WITH A 500 KV ELECTRON MICROSCOPE 67-06 M14-71545

FERROUS ALLOYS, MICROSTRUCTURE
X-RAY DIFFRACTION MICROSCOPY STRUCTURAL STUDY OF THE AUSTENITE OF FE-NI ALLOYS IN THE DIRECT AND REVERSE MARTENSITIC TRANSFORMATIONS 67-01 M13-57351
REPLICATION OF FINE STRUCTURE IN MARTENSITE 67-01 M13-57429
DETERMINATION OF NONMETALLIC INCLUSIONS IN IRON-BASE ALLOYS 67-02 M04-59578
ACCOMMODATION FAULTING IN FE-NI MARTENSITIC TRANSFORMATION 67-02 M14-58968
ON THE NATURE OF CEMENTITE 67-02 M14-61756
INITIAL STAGES OF THE DISINTEGRATION OF THE SUPERSATURATED SOLID SOLUTION IN ALLOYS BASED ON THE SYSTEM. FE-NI-AL 67-02 M14-61944
EVOLUTION OF DISLOCATIONS DURING ANNEALING IN AN ORDERED SOLID SOLUTION OF FE-AL 67-03 M13-65557
ESTIMATING THE DEGREE OF TEXTURING IN A LOW-TEXTURED ALLOY 67-03 M13-65604
REDISTRIBUTION OF DISLOCATIONS IN CEMENTITE DURING HEATING 67-03 M13-65784
DENDRITE STRUCTURE AND GRAIN SIZE OF UNDER COOLED MELTS 67-03 M14-65078
SCANNING ELECTRON MICROSCOPY OF GRAPHITE GROWTH IN IRON AND NICKEL ALLOYS 67-03 M14-65883
METALLOGRAPHIC ATLAS OF IRON, STEELS AND CAST IRONS. V. 1. FUNDAMENTALS OF METALLOGRAPHY 67-04 M13-67733
METALLOGRAPHIC ATLAS OF IRON, STEELS AND CAST IRONS. V. 2. STRUCTURE OF STEELS 67-04 M13-67734
PRECIPITATION OF NITRIDES IN IRON-MANGANESE-NITROGEN ALLOYS 67-04 M14-67024
EFFECT OF A MAGNETIC FIELD ON THE RECRYSTALLIZATION TEXTURE OF IRON 67-04 M14-67651
SOLUBILITY OF HYDROGEN IN HARD ALLOYS 67-05 M13-69255
NONUNIFORM DISTRIBUTION OF TITANIUM IN AN FE-NI-TI

ALLOY 67-06 M13-70921
MICROSCOPIC AND X-RAY SPECTRAL ANALYSES OF SILICO-CARBIDE EUTECTIC IN FE-C-SI ALLOYS 67-06 M14-69992
ANTI-PHASE DOMAINS AND DISLOCATION CONFIGURATIONS IN THE FE-13 AT. PER CENT SI ALLOY 67-07 M13-73146
ELECTRON-METALLOGRAPHIC EXAMINATION OF SOFT-MAGNETIC NICKEL-IRON ALLOYS 67-07 M13-73533
BURGERS VECTORS OF DISLOCATIONS IN DEFORMED IRON AND IRON ALLOYS 67-07 M14-73500
MARTENSITE IN IRON-NITROGEN ALLOYS 67-07 M14-74173
ESTIMATING THE DEGREE OF TEXTURE IN A LOW-TEXTURE ALLOY 67-08 M13-74529
STRUCTURE AND PROPERTIES OF FE-CO-NI-AL-CU ALLOYS IN HIGH-COERCIVITY STATE 67-08 M15-74627
PLASTIC FLOW OF MARTENSITE 67-09 M13-76594
MICROSTRUCTURAL DAMAGE ADJACENT TO A BRITTLE FRACTURE 67-09 M13-76651
THE CRYSTALLOGRAPHIC CHARACTERISTICS OF THE AUSTENITE, RETRANSFORMED IN THE MARTENSITE WITH FAST HEATING, IN A FE-NI ALLOY WITH 32.5 PER CENT NICKEL 67-09 M13-77849
NONMETALLIC INCLUSIONS IN FOUNDRY PRODUCTS 67-09 M13-78156
MICROSTRUCTURE AND MECHANICAL PROPERTIES OF IRON-NICKEL BASE ALLOYS CONTAINING 9 AT. PER CENT COPPER AFTER VARIOUS HEAT TREATMENTS 67-09 M14-76789
HARDNESS CHANGE OF FERROUS MARTENSITE BY DEFORMATION 67-12 M17-82396

FERROUS ALLOYS, MOSSBAUER EFFECT
MOSSBAUER EFFECT IN IRON-CARBON MARTENSITE STRUCTURE AND ITS CHANGES AFTER TEMPERING 67-05 M16-69766

FERROUS ALLOYS, OPTICAL PROPERTIES
THE ABSORPTION AND SECONDARY FLUORESCENCE OF ELECTRON EXCITED X-RAY EMISSION IN THE BINARY ALLOYS FE-MN, FE-SI AND FE-NI 67-09 M15-77553

FERROUS ALLOYS, OXIDATION
ON POROUS BODY OXIDATION 67-02 M09-59608
STRUCTURE OF THIN OXIDE FILMS ON IRON-SILICON ALLOYS 67-02 M18-61941
INVESTIGATION OF THE FORMATION OF OXIDE FILMS IN IRON-MANGANESE MELTS 67-03 M18-65974
THE FORMATION OF SCALE ON IRON-COPPER AND IRON-COBALT ALLOYS HEATED IN AIR 67-05 M18-69256
EFFECT OF SILICON, BORON AND CALCIUM ON OXIDATION OF LIQUID IRON-CHROMIUM ALLOYS 67-08 M18-75870
THE APPLICATION OF A GLANCING-ANGLE X-RAY DIFFRACTION FILM TECHNIQUE TO THE STUDY OF THE LOW-TEMPERATURE OXIDATION OF FE-CR ALLOYS 67-08 M18-76252
EFFECTS OF RARE EARTH ELEMENTS ON HIGH-TEMPERATURE OXIDATION BEHAVIOR OF FE-18 PER CENT CR ALLOYS CONTAINING SILICON 67-09 M18-78218
A STUDY OF SURFACE OXIDATION OF IRON-CHROMIUM MELTS 67-10 M18-79716
NOTE ON THE PROLONGED OXIDATION OF AN FE-25 PER CENT CR ALLOY AT 950 C. IN OXYGEN 67-11 M18-80714
COMPOSITIONAL CHANGES IN THE UNDERLYING ALLOY DURING THE PROTECTIVE OXIDATION OF ALLOYS 67-11 M18-81587
STUDY OF OXIDATION OF IRON-CARBON ALLOYS 67-12 M18-82446

FERROUS ALLOYS, PHASE TRANSFORMATIONS
THE NATURE OF THE CHEMICAL BOND IN PHASES OF THE IRON-CARBON SYSTEM 67-01 M13-58146
EFFECT OF NASCENT PHASE ON THE KINETICS OF THE MARTENSITE TRANSFORMATION 67-01 M14-57101
INVESTIGATION OF THE DIRECT AND REVERSE MARTENSITIC TRANSFORMATION IN A FE-NI ALLOY BY X-RAY DIFFRACTION MICROSCOPY 67-01 M14-57673
BEHAVIOR OF GRAPHITE IN HYPEREUTECTIC IRON-CARBON ALLOY BY QUENCHING METHOD. PT. 2 67-01 M14-58548
STUDY OF 9 PER CENT NICKEL LOW-CARBON STEELS--THE PRECIPITATION OF AUSTENITE AND MICROSTRUCTURE 67-02 M14-59114
ORDER-DISORDER TRANSFORMATION OF FE-CO ALLOYS IN FINE PARTICLES 67-02 M14-59751
THEORETICAL AND EXPERIMENTAL ASPECTS OF THE --225-- AUSTENITE-MARTENSITE TRANSFORMATION IN IRON ALLOYS 67-02 M14-60645
STUDY OF THE ISOTHERMAL TRANSFORMATIONS IN 17 PER CENT CR STAINLESS STEELS. PT. 3. INFLUENCE OF ALLOYING ELEMENTS OTHER THAN CARBON AND NITROGEN 67-02 M14-61124
DISINTEGRATION OF THE SUPERSATURATED SOLID SOLUTION IN THE ALLOY OF ALNICO WITH TITANIUM 67-02 M14-61168
ON THE FEASIBILITY OF A COMPOSITE MARTENSITE MODEL FOR THE --225--F AUSTENITE-MARTENSITE TRANSFORMATION 67-02 M14-61508
RAPIDLY QUENCHED --SPLAT-COOLED-- ALLOYS 67-03 M14-65338
DISORIENTATIONS IN AN IRON-NICKEL ALLOY AFTER THE DIRECT AND REVERSE MARTENSITIC TRANSFORMATIONS 67-04 M13-67639
OXIDATION OF AN FE-2.29 PER CENT NI ALLOY IN CARBON DIOXIDE AT 600-1000 C 67-04 M14-67195
DILATOMETRIC ANOMALIES IN TEXTURED ALLOYS DURING ALPHA-TO-GAMMA TRANSFORMATION 67-04 M14-67921
STRENGTHENING OF AUSTENITE DURING DIRECT AND REVERSE MARTENSITIC TRANSFORMATION 67-04 M14-67938
ELECTRON DIFFRACTION AND ELECTRON MICROSCOPE ANALYSIS OF THE CARBIDES IN VACUUM-CONDENSED IRON-CARBON FILMS 67-05 M14-68837
THE DILATOMETRIC EFFECT ON THE ALPHA-GAMMA TRANSFORMATION IN A TEXTURED IRON-NICKEL ALLOY 67-05 M14-68838
X-RAY DIFFRACTION STUDY OF STRUCTURAL IMPERFECTIONS ARISING FROM GAMMA-EPSILON TRANSFORMATIONS 67-05 M14-68840
EFFECT OF REPEATED HEATING AND COOLING ON CHANGE IN THE PHASE COMPOSITION OF MANGANESE STEEL 67-05 M14-69649
THE NUCLEATION OF MILITARY TRANSFORMATIONS 67-05 M14-69728
INVESTIGATION OF THE TRANSFORMATION BEHAVIOR OF IRON-MANGANESE ALLOYS BY DAMPING MEASUREMENTS IN THE REGION OF 1 CYCLE/SEC 67-06 M14-70259
ON THE NATURE OF THE MARTENSITE TO AUSTENITE REVERSE TRANSFORMATION 67-06 M14-70435
MARTENSITIC TRANSFORMATION OF SOLID SOLUTIONS WITH COHERENT ELEMENTS 67-06 M14-71977
TRANSFORMATIONS IN FE-CO ALLOYS 67-07 M14-74172
STRESS-ORIENTING OF FE16N2 PRECIPITATES IN AN FE-N ALLOY 67-08 M14-75977
TRANSFORMATION OF DELTA FERRITE DURING A QUENCHING TREATMENT 67-08 M14-76211
THE SHEET-TEXTURE OF FE-30.2 WT PER CENT NI ALLOY 67-09 M14-77253
TRANSFORMATION OF METASTABLE PHASE FEAL AND CHANGES IN MAGNETIC PROPERTIES DURING ORDERING OF QUENCHED FE-AL ALLOY 67-09 M14-77296
STRUCTURAL CHANGES DURING HEAT TREATMENT OF MAGNICO ALLOYS 67-09 M14-77867
AGING BEHAVIOR OF TERNARY IRON-CHROMIUM-VANADIUM ALLOYS AROUND 500 C 67-09 M14-78232
PHASE TRANSFORMATIONS IN THE FE-MN SYSTEM AT HIGH HYDROSTATIC PRESSURES 67-11 M14-81169
MARTENSITE-TO-FCC REVERSE TRANSFORMATION IN AN FE-NI ALLOY 67-11 M14-81341
THE CRYSTALLOGRAPHY OF THE REVERSE MARTENSITIC TRANSFORMATION IN AN IRON-NICKEL ALLOY 67-12 M13-82761
AGING OF FE-NI-TI ALLOYS IN THE PROCESS OF REVERSE ALPHA-TO-GAMMA MARTENSITIC TRANSFORMATION 67-12 M14-82334
EFFECT OF MAGNETIC FIELD ON MARTENSITIC TRANSFORMATION IN TYPE-N23G4 ALLOYS 67-12 M14-82336
KINETICS OF THE ISOMORPHIC TRANSFORMATION IN IRON-RHODIUM ALLOYS 67-12 M14-82418
CRYSTALLOGRAPHY OF THE FCC TO BCC MARTENSITIC TRANSFORMATION IN AN IRON-PLATINUM ALLOY 67-12 M14-82865
ISOTHERMAL MARTENSITE FORMATION IN IRON-MANGANESE-CARBON ALLOYS 67-12 M14-83398

FERROUS ALLOYS, PHASES /STATE OF MATTER/
CARBIDES IN THE FE-V-C TERNARY SYSTEM 67-01 M13-57187
EFFECT OF NICKEL ON THE SIGMA TRANSFORMATION IN FE-45 PER CENT CR ALLOYS 67-01 M14-58329
ELECTRON MICROSCOPIC STRUCTURES OF IRON-MANGANESE ALLOYS 67-02 M13-59113
ELECTRON MICROSCOPE OBSERVATION OF GAMMA-PHASE PRECIPITATION IN VANADIUM PERMENDUR 67-02 M14-59072

FERROUS ALLOYS

FORMATION OF GAMMA PHASE IN QUENCHED IRON AND ALLOYED FERRITE 67-02 M14-61220
EFFECT OF TITANIUM ON NI-AL AGE HARDENING STEELS 67-04 M14-67563
LAVES PHASES IN THE SCANDIUM-IRON SYSTEM 67-05 M13-68593
ORDERING AND MAGNETIC TRANSFORMATION IN AN FE-AL ALLOY 67-05 M14-69641
EFFECT OF NICKEL ADDITIONS ON THE PHASE COMPOSITION OF IRON-BERYLLIUM ALLOYS 67-06 M14-69984
CARBON ACTIVITY IN THE GAMMA AND ALPHA RANGES OF FE-C-SI ALLOYS 67-08 M15-75678
THE EFFECT OF VARIOUS ALLOYING ELEMENTS ON THE EXTENT OF THE GAMMA REGION IN THE FE-CR-C SYSTEM. PT. 1. THE FE-CR-C-MO SYSTEM 67-09 M13-77848
STRUCTURE AND MECHANICAL PROPERTIES OF IRON-NICKEL-BASE ALLOYS CONTAINING 12 AT. PER CENT ALUMINIUM AFTER VARIOUS HEAT TREATMENTS 67-10 M14-78689
MICROSTRUCTURE OF IRON-BORON ALLOYS 67-12 M13-81843
X-RAY INVESTIGATION OF THE NB-FE SYSTEM AND THE DETERMINATION OF THE THERMODYNAMIC PROPERTIES OF THE COMPOUND NBFE2 67-12 M13-82166
EVOLUTION OF THE ANTIPHASE STRUCTURE OF IRON-ALUMINUM ALLOYS AS A FUNCTION OF THEIR ALUMINUM CONTENT 67-12 M13-82447
A CORRELATION OF THERMODYNAMIC VARIABLES FOR IRON-RICH IRON-NICKEL-CARBON ALLOYS 67-12 M15-82959

FERROUS ALLOYS, PHYSICAL PROPERTIES
RELATION BETWEEN THE MAGNETIZATION, THE INDUCED MAGNETIC ANISOTROPY AND THE RECRYSTALLIZATION PROCESS OF A COLD ROLLED FERROMAGNETIC GAMMA-PHASE ALLOY IN THE CO-FE-CR-NI SYSTEM --ANISOTROPY INDUCED BY COLD WORKING IN A FERROMAGNETIC GAMMA-PHASE ALLOY IN THE CO-FE-CR-NI SYSTEM. PT. 2.-- 67-02 M15-59738
DENSITY OF LIQUID FE-S AND FE-P ALLOYS 67-03 M15-65775
DEVELOPMENT AND EVALUATION OF MAGNETIC AND ELECTRICAL MATERIALS CAPABLE OF OPERATING IN THE 800 TO 1600 F. TEMPERATURE RANGE 67-03 M15-65901
RELATIVE INTERFACIAL ENERGIES IN FE-C ALLOYS 67-04 M15-66049
IMPROVING THE MAGNETIC PROPERTIES OF 50NP TEXTURED ALLOY 67-04 M15-67697
THE EFFECT OF BORON ON INTERNAL FRICTION OF PURE IRON 67-04 M15-67829
EFFECT OF PLASTIC DEFORMATION ON PHYSICAL PROPERTIES OF TI-ALLOYED FE-NI INVARS 67-04 M15-67925
INFLUENCE OF TITANIUM ON PHYSICAL PROPERTIES OF IRON-NICKEL ALLOYS 67-04 M17-66089
SOLUBILITY OF HYDROGEN IN LIQUID IRON ALLOYS 67-06 M14-70583
THE SOLUBILITY OF SULFUR IN SILICON-IRON 67-06 M15-69946
EFFECTIVE MAGNETIC FIELD ON THE NB AND TA NUCLEI DISSOLVED IN IRON 67-06 M16-71916
NEW METHOD FOR TRACING PORES IN IRON-BASE MATERIALS 67-07 M15-73769
THERMOPHYSICAL PROPERTIES OF HIGH TEMPERATURE SOLID MATERIALS. V. 3. FERROUS ALLOYS 67-07 M15-74022
THE NATURE OF THE K-STATE IN THE SYSTEM OF IRON AND ALUMINIUM 67-08 M15-74405
STRAIN GAGE FACTOR AND ELECTRICAL AND MAGNETIC PROPERTIES IN AS-COLDWORKED STATE OF IRON-NICKEL-CHROMIUM ALLOYS CONTAINING 35 WT PER CENT NICKEL AND 0-20 WT PER CENT CHROMIUM 67-08 M15-74433
MOSSBAUER EFFECT IN IRON-ALUMINIUM ALLOYS. PT. 1 67-08 M15-75226
MOSSBAUER EFFECT IN IRON-ALUMINIUM ALLOYS PT. 2 67-08 M15-75227
COVANDUR --SOFT MAGNETIC ALLOY-- 67-11 M01-81250
SOLUBILITY OF HYDROGEN IN LIQUID IRON AND IN SOME LIQUID BINARY IRON ALLOYS 67-11 M14-80943
DENSITIES AND SURFACE PROPERTIES OF IRON-COBALT-NICKEL MELTS AT 1550 C 67-11 M15-81449

FERROUS ALLOYS, POWDER METALLURGY
PREPARATION AND PROPERTIES OF ESD MAGNETS FROM SINGLE-DOMAIN PARTICLES 67-01 M09-57997
IRON POWDER WITH LOW O2 CONTENT FOR STRUCTURAL P/M PARTS. PT. 1. DATA FOR COMPONENT DESIGNERS 67-02 M09-59035
SINTERED METAL PRODUCTS 67-02 M09-59627
A METHOD OF STUDYING SPECIFIC FRICTION FORCES AND PRESSURES IN THE ROLLING OF METAL POWDERS 67-02 M09-60574
SINTERED METAL PRODUCTS 67-03 M09-65828
THE SYSTEM IRON CARBON IN POWDER METALLURGY 67-03 M09-65927
PRE-INFILTRATED IRON-COPPER POWDER 67-05 M09-68944
MAGNETICALLY SOFT POWDERED ALSIFER-TYPE MATERIALS 67-06 M09-71878
RESEARCH INTO MAGNIKO POWDERED METAL MAGNETS WITH HIGH COERCIVE FORCES 67-08 M09-75455
USE OF POWDER COMPOSITE MAGNETIC CONDUCTORS IN ALTERNATING CURRENT DEVICES 67-08 M20-74912
IRON POWDER POISED FOR NEW BOOM 67-12 M09-81968

FERROUS ALLOYS, REACTIONS /CHEMICAL/
NITROGEN ABSORPTION IN GAMMA IRON AND IRON-LANTHANUM ALLOYS 67-01 M14-58558
OXIDATION OF MOLTEN IRON ALLOYS WITH ATMOSPHERE 67-02 M04-59153
KINETIC STUDY OF THE DECARBURIZATION OF LIQUID IRON 67-02 M14-61851
THE INFLUENCE OF WATER VAPOR AND CARBON DIOXIDE ON THE OXIDATION OF IRON AND IRON ALLOYS AT HIGH TEMPERATURES 67-02 M18-62010
THE SOLUBILITY OF NITROGEN IN MULTICOMPONENT LIQUID IRON ALLOYS 67-03 M14-65081
A SURVEY OF DECOMPOSITION PROCESSES IN SUPERSATURATED FE-27 AT. PER CENT BE 67-03 M14-65083
HOW NICKEL AFFECTS THE KINETICS OF IRON DESULFURIZATION BY A LIME-ALUMINA SLAG AT 1600 C 67-04 M04-67445
RATE OF DECARBURIZATION OF MOLTEN IRON-CARBON ALLOYS WITH OXIDIZING GAS 67-04 M04-67555
SULPHUR POTENTIALS IN IRON AND IN IRON-MANGANESE ALLOYS 67-06 M14-70805
EFFECT OF OXYGEN, SULFUR, SELENIUM AND TELLURIUM ON THE SOLUBILITY OF NITROGEN IN LIQUID IRON 67-06 M14-72208
THE NATURE OF ACTIVITY AND ITS THEORETICAL DETERMINATION IN BINARY IRON ALLOYS 67-06 M15-70265
CARBURIZATION OF FE-CR ALLOYS DURING OXIDATION IN DRY CARBON DIOXIDE 67-07 M14-73450
THE EFFECT OF ADDITIONS OF MANGANESE, VANADIUM AND CHROMIUM ON THE ACTIVITY OF OXYGEN IN MOLTEN IRON 67-08 M14-76051
NOTE ON THE ALUMINUM-OXYGEN INTERACTION IN LIQUID IRON 67-09 M15-77736
ON THE PASSIVITY OF IRON-CHROMIUM ALLOYS. PT. 1. REVERSIBLE PRIMARY PASSIVATION AND SECONDARY FILM FORMATION 67-09 M18-76621

FERROUS ALLOYS, RECRYSTALLIZATION /METALLURGICAL/
RECRYSTALLIZATION IN ALLOYS AFTER HETEROGENEOUS AGING 67-06 M14-72349

FERROUS ALLOYS, REFINING
THE ELECTRON BEAM MELTING OF SOFT MAGNETIC FERROUS MATERIALS 67-08 M04-74444
OXIDATION STUDIES OF MOLTEN IRON ALLOY DROPS 67-10 M04-78330
METHOD OF EXTRACTING SULFUR FROM IRON-CARBON-SULFUR MELTS 67-11 M14-81213

FERROUS ALLOYS, ROLLING
WARM ROLLING OF IRON-ALUMINIUM ALLOYS 67-02 M07-59883
METHOD FOR MAKING BIDIRECTIONAL IRON-ALUMINIUM ALLOY MAGNETIC SHEET 67-02 M07-60949
TEXTURE OF HOT ROLLED BAND OF SILICON IRON 67-05 M07-68473
THE ROLLING OF WATER-PULVERIZED KANTHAL FE ALLOY POWDER 67-06 M09-71740
EFFECT OF THE ROLL TEMPERATURE ON THE SPECIFIC PRESSURE DURING ROLLING OF IRON-ALUMINIUM ALLOYS 67-12 M07-82409
EFFECT OF THE DEGREE OF DEFORMATION ON SPECIFIC PRESSURE IN WARM ROLLING OF IRON-ALUMINUM ALLOYS 67-12 M07-83330
INVESTIGATION OF THE EFFECT OF THE ROLLING SPEED ON THE PRESSURE DURING HEATED ROLLING OF IRON-ALUMINUM ALLOYS 67-12 M07-83335

FERROUS ALLOYS, SINGLE CRYSTALS
THE MARTENSITE TRANSFORMATION IN SMALL --0.1-0.3 MM-- IRON-NICKEL SINGLE CRYSTALS 67-04 M14-66054
EFFECT OF THERMOMAGNETIC TREATMENT ON THE MAGNETIC

PROPERTIES AND DOMAIN STRUCTURE OF SILICON IRON SINGLE CRYSTALS. PT. 1 67-08 M15-75258
ANTIPHASE BOUNDARIES IN SILICON IRON SINGLE CRYSTALS REVEALED BY ETCHING 67-08 M16-75241
FERROUS ALLOYS, SINTERING
EXPERIENCE IN MANUFACTURING FRICTION SINTERED ALLOYS WITH AN IRON BASE 67-02 M09-62131
FERROUS ALLOYS, SOLID SOLUTIONS
COHERENT PRECIPITATION IN SUBSTITUTIONAL SOLID SOLUTIONS OF ALPHA IRON 67-01 M14-57926
FERROUS ALLOYS, SOLIDIFICATION
SOLIDIFICATION OF HIGHLY UNDERCOOLED CASTINGS 67-10 M14-79294
FERROUS ALLOYS, SOLUBILITY
THE SOLUBILITY OF NITROGEN IN MOLTEN IRON ALLOYS BY ARC AND LEVITATION MELTING 67-04 M14-67588
THE SOLUBILITY OF CARBON AND GASES IN METALS 67-08 M14-75029
EFFECT OF CERTAIN ELEMENTS ON HYDROGEN SOLUBILITY IN MOLTEN IRON 67-08 M15-75867
CONTRIBUTION TO THE STUDY OF THE CHEMICAL ACTIVITY OF THE ELEMENTS PHOSPHORUS, SULPHUR, SILICON, COPPER AND CHROMIUM IN MOLTEN IRON SOLUTIONS SATURATED WITH CARBON 67-09 M14-77343
FERROUS ALLOYS, SORPTION
ABSORPTION OF ELECTROLYTIC HYDROGEN BY NICKEL AND IRON-NICKEL ALLOYS 67-09 M14-76626
FERROUS ALLOYS, SPECIFICATIONS
TOPHET-D --ELECTRICAL RESISTANCE ALLOY-- 67-04 M01-66322
FERROUS ALLOYS, STEEL MAKING
THE OXIDIZING PROCESSES INVOLVED IN BLOWING VANADIUM IRONS IN THE OXYGEN CONVERTER 67-09 M04-77067
FERROUS ALLOYS, SUPERCONDUCTIVITY
THE ALPHA-TI-FE SOLID SOLUTION AND ITS SUPERCONDUCTING PROPERTIES 67-05 M14-68214
FERROUS ALLOYS, SURFACE FINISHING
IMPROVED PERFORMANCE WITH THE TRIBOLUSTER PROCESS FOR DEBURRING AND SURFACING 67-10 M12-79189
FINE FINISHING--THE DEVELOPMENT FROM HAND OPERATIONS TO VIBRATORY METHODS 67-10 M12-79191
CHEMICAL POLISHING OF FE-SI ALLOYS 67-11 M12-80321
FERROUS ALLOYS, SURFACE PROPERTIES
ADHESION OF FE-CR, FE-MO AND FE-W ALLOYS TO WHITE ELECTROMELTING SLAG 67-02 M15-61204
THE SURFACE ENERGY OF IRON-3 PER CENT SILICON BY SURFACE-RELAXATION MEASUREMENTS 67-08 M14-76206
FERROUS ALLOYS, THERMAL PROPERTIES
THERMAL EXPANSION OF SOLID SOLUTIONS OF REFRACTORY METALS OF THE 4, 5, AND 6 GROUPS IN THE PERIODIC TABLE 67-01 M15-58081
ENTHALPY OF BETA AND DELTA PHASES IN THE FE-GE SYSTEM AT HIGH TEMPERATURES 67-02 M15-61554
ELECTRONIC SPECIFIC HEAT OF DILUTE ALLOYS.. FE --TI--, FE --V--, FE --CR--, FE --MN--, FE --CO--, FE --NI--, FE --AL--, FE --SI--, FE 67-03 M15-65031
TEMPERATURE DEPENDENCE OF THE HEAT CAPACITY OF IRON-ALUMINUM ALLOYS IN THE COMPOSITION RANGE TO 27 AT. PER CENT AL 67-04 M15-67376
MEASURE OF THE THERMAL CAPACITY OF THE FESI ALLOY BETWEEN 850 AND 1580 C 67-05 M15-68917
HEAT EXPANSION OF INVAR ALLOYS AT LOW TEMPERATURES 67-08 M15-75284
ON THE SPECIFIC HEAT OF FE-SI ALLOYS 67-08 M15-75647
THERMOCHEMISTRY OF FE-C ALLOYS IN SOLID AND LIQUID STATES 67-08 M15-75866
THERMODYNAMIC ACTIVITY OF CHROMIUM IN FE-CR SOLUTIONS 67-12 M15-82594
FERROUS ALLOYS, THERMODYNAMICS
THE INFLUENCE OF VANADIUM ON THE ACTIVITY OF CARBON IN THE FE-C-V SYSTEM AT 1000 C., CORRELATION OF THE INFLUENCE OF SUBSTITUTIONAL SOLUTES ON THE ACTIVITY COEFFICIENT OF CARBON IN IRON-BASE SYSTEMS 67-01 M14-57417
THE RELATIONSHIP BETWEEN INTERACTION PARAMETERS IN LIQUID IRON AND THOSE IN GAMMA-IRON 67-01 M14-58335
THE ACTIVITY OF OXYGEN IN THE LIQUID FE-PT ALLOY SYSTEM 67-01 M15-58469
ACTIVITY OF SULFUR IN FE-S MELTS 67-02 M14-60053
THERMODYNAMIC PROPERTIES OF SOLID SOLUTION ALLOYS OF IRON AND CARBON WITH MANGANESE, SILICON, CHROMIUM OR NICKEL 67-02 M15-61734
STUDY OF ACTIVITY OF PHOSPHORUS IN IRON-PHOSPHORUS MELTS 67-03 M15-65954
EFFECT OF NITROGEN ON SURFACE TENSION OF LIQUID IRON AND ITS ALLOYS 67-04 M15-66607
A THERMODYNAMIC STUDY OF SOLID IRON-GOLD AND COBALT-GOLD ALLOYS BY THE USE OF SOLID OXIDE ELECTROLYTES 67-08 M15-76208
THERMODYNAMIC ACTIVITY OF CARBON IN FE-C-SI AND FE-C-CO ALLOYS 67-10 M15-79907
FERROUS ALLOYS, THIN FILMS
TEMPERATURE DEPENDENCE OF UNIAXIAL ANISOTROPY AND ANISOTROPY DISPERSION IN NI-FE THIN FILMS 67-02 M15-59070
MEASUREMENT OF THE NORMAL COMPONENT OF SWITCHING SIGNALS IN MAGNETIC THIN FILMS 67-03 M15-65159
ELECTRON DIFFRACTION AT LOW TEMPERATURE. PT. 5. ON AMORPHOUS FILMS OF TRANSITION METALS AND ALLOYS PREPARED BY LOW-TEMPERATURE CONDENSATION 67-07 M13-73319
ELECTRON MICROSCOPIC STUDIES ON ORIGINS OF MAGNETIZATION RIPPLES IN FERROMAGNETIC THIN FILMS 67-12 M15-81761
THE MAGNETIC AND ELECTRICAL PROPETIES OF IRON-GADOLINIUM FILMS 67-12 M15-83306
FERROUS ALLOYS, TRANSPORT PROPERTIES
HALL EFFECT AND TRANSVERSE MAGNETORESISTANCE IN SOME FERROMAGNETIC IRON-CHROMIUM ALLOYS 67-03 M16-65026
FERROUS ALLOYS, VAPOR DEPOSITION
A LABORATORY INSTALLATION FOR PREPARING THIN MULTILAYER FILMS BY VACUUM DEPOSITION 67-02 M12-58840
FERROUS ALLOYS, VAPORIZING
EVAPORATION OF MANGANESE, COPPER AND TIN FROM MOLTEN IRON UNDER VACUUM 67-08 M15-74425
FERROUS ALLOYS, WEAR
THE STRUCTURE AND WEAR RESISTANCE OF A NICKEL-FREE POWDERED HARD ALLOY WITH A HIGH MANGANESE CONTENT 67-08 M17-74863
THE EFFECT OF CERTAIN ADDITIVES ON THE WEAR RESISTANCE OF FRICTIONAL POWDER COMPOSITES 67-08 M17-74910
FERROUS ALLOYS, WELDING
WELDING CAST HEAT RESISTANT FE-25CR-5AL ALLOY 67-03 M11-65050
MAGNETIC FORCE WELDING TAMES EXOTICS 67-04 M11-67632
ELECTRON AND LASER BEAM WELDING--TO DATE AND 1970 67-04 M11-68200
STATE OF DEVELOPMENT IN THE FIELD OF STUD WELDING 67-06 M11-72065
WELDING CAST FE..25 CR.. 5AL HEAT RESISTING ALLOY 67-07 M11-73970
AN ANALYTICAL INVESTIGATION OF THE TEMPERATURE DISTRIBUTIONS DURING RESISTANCE WELDING 67-07 M11-74283
INVESTIGATION OF THE PHASE COMPOSITION OF IRON-ALUMINUM WELDS 67-09 M13-76854
FERROUS ALLOYS, X RAY ANALYSIS
X-RAY SPECTRAL ANALYSIS OF FE-NI ALLOYS 67-02 M15-59925
X-RAY SPECTRANALYSIS OF FE-NI ALLOYS 67-07 M15-72580
THEORETICAL CALCULATION OF FLUORESCENT X-RAY INTENSITIES IN FLUORESCENT X-RAY ANALYSIS 67-08 M19-75807
FERROUS COMPOUNDS
SEE IRON COMPOUNDS
FERROUS METALS
SEE FERROUS ALLOYS
FERROVANADIUM, ALLOYING ADDITIVE
STUDIES ON THE MANUFACTURING AND MECHANICAL PROPERTIES OF VANADIUM-CONTAINING HIGH-GRADE CAST IRON 67-01 M06-58741
FERROVANADIUM, MELTING
CONVERSION OF VANADIUM-CONTAINING IRONS TO VANADIUM SLAG AND SEMIPRODUCT IN OXYGEN AND AIR BLOWN CONVERTERS 67-09 M04-77074
SELECTIVE REDUCTION OF ELEMENTS FROM A VANADIUM CONVERTER SLAG 67-11 M04-81407
FERROZIRCONIUM, REFINING
OBTAINING A LOW-SILICA FE-ZR WITHOUT A SECONDARY PROCESS 67-04 M04-66010
FETTLING /CLEANING/
SEE CASTINGS CLEANING
FETTLING /FURNACE REPAIR/

FETTLING /FURNACE REPAIR/
SEE MAINTENANCE
OPENHEARTH FURNACES
FIBER GLASS
SEE GLASS FIBERS
FIBER METAL BRAZING
SEE BRAZING
METAL FIBERS
FIBER METALLURGY
FIBER-REINFORCED METALS 67-01 M01-58569
INFLUENCE OF CONSTITUENT PROPERTIES UPON THE STRUCTURAL EFFICIENCY OF FIBROUS COMPOSITE SHELLS 67-01 M17-58521
PROPERTIES OF MATERIALS. PT. 2. FIBRE-REINFORCEMENT --THE MECHANICS OF FIBRE-REINFORCED MATERIALS 67-01 M17-58589
EOS PROBES ELECTRODEPOSITED COMPOSITE STRUCTURES MARKET 67-02 M12-59482
A THEORY OF FIBER STRENGTHENING 67-02 M17-60630
FILAMENT-MATRIX INTERACTIONS IN METAL MATRIX COMPOSITES 67-03 M14-65345
FIBER-METAL COMPOSITES 67-03 M14-65346
CERAMIC-METAL FIBER COMPOSITE SYSTEMS 67-03 M14-65349
FACTORS AFFECTING THE TENSILE STRENGTH OF METALS REINFORCED WITH STRONG FIBERS 67-03 M17-65348
FIBER-REINFORCED METALS 67-04 M09-66123
WHISKER-STRENGTHENED METALS 67-04 M17-66124
CERAMIC WHISKERS REINFORCE ALUMINUM CASTINGS 67-05 M06-69886
FIBRE REINFORCED MATERIALS 67-05 M09-68397
METAL MATRIX COMPOSITE MATERIALS 67-05 M09-68497
ON THE STRENGTH OF AL-RICH AL-AG SOLID SOLUTION WHICH CAUSED THE DIFFERENCE IN THE CONCENTRATION DISTRIBUTION OF THE SOLUTE ATOM 67-05 M14-69852
SPI REINFORCED PLASTICS DIVISION 67-06 M01-70614
PROGRESS IN COMPOSITE MATERIALS 67-06 M09-70652
A TENSILE FAILURE MECHANISM FOR WHISKER REINFORCED COMPOSITES 67-06 M17-70615
SURVEY OF CERAMIC FIBERS AND FIBROUS COMPOSITE MATERIALS 67-07 M01-73874
SILICON CARBIDE FILAMENT REINFORCED EPOXY RESIN COMPOSITES 67-07 M09-73337
REVIEW OF CURRENT DEVELOPMENTS IN NEW REFRACTORY FIBERS AND THEIR UTILIZATION AS HIGH TEMPERATURE REINFORCEMENTS 67-07 M09-73339
RESEARCH ON BORON FILAMENTS AND BORON REINFORCED COMPOSITES 67-07 M09-73340
METALLIC FILAMENTS AND THEIR COMPOSITES 67-07 M09-73341
USE OF BORON NITRIDE FIBERS IN COMPOSITES 67-07 M09-73342
WHISKER COMPOSITE TECHNOLOGY 67-07 M09-73343
SINGLE CRYSTAL FIBER REINFORCEMENTS 67-07 M09-73344
MECHANICAL BEHAVIOR OF A CONTINUOUS FILAMENT CARBON COMPOSITE 67-07 M09-73345
BORON ALUMINUM COMPOSITE FABRICATED BY PLASMA SPRAYING 67-07 M09-73358
FILAMENT-REINFORCED REFRACTORY METALS 67-07 M09-73360
METAL COATED WHISKERS 67-07 M09-73361
NEW TECHNIQUES FOR MAKING HIGH TEMPERATURE RESISTANT COMPOSITE MATERIALS 67-07 M09-73364
THE FABRICATION AND MECHANICAL PROPERTIES OF SIC FILAMENT-METAL MATRIX COMPOSITES 67-07 M09-73366
METALLIC-FIBER REINFORCED HEAT RESISTANT CERAMIC MATERIALS 67-08 M09-74357
FIBER REINFORCED COMPOSITE MATERIALS 67-08 M09-74922
THE POTENTIAL OF FIBER REINFORCEMENT 67-08 M09-76256
THEORY OF STRENGTHENING OF METALS 67-08 M14-74686
FIBER-STRENGTHENED MATERIALS 67-08 M14-74688
THE POTENTIAL OF COMPOSITE MATERIALS 67-08 M20-74689
STRENGTHENING OF ALUMINUM BY FIBER 67-09 M09-78233
REINFORCEMENT OF METALS AND ALLOYS BY DISPERSED PARTICLES OR FIBERS 67-09 M14-76376
FIBER REINFORCED METALS 67-09 M14-77090
HEAT TRANSFER PROPERTIES OF LOOSE-FIBER MATERIALS IN VACUUM 67-10 M05-79251
INVESTIGATION OF PROPERTIES OF NICKEL FIBER COMPOSITES 67-10 M09-79343
BERYLLIUM WIRE--A NEW ENGINEERING MATERIAL 67-10 M17-78632
METALS AND ALLOYS CONTAINING DISPERSION INCLUSIONS OF REFRACTORY COMPOUNDS AND FIBERS 67-11 M09-81308
NEW FIBERS FOR STRUCTURAL REINFORCEMENTS 67-11 M14-80687
PRODUCTION AND PROPERTIES OF HEAT RESISTANT FIBROUS MATERIALS 67-11 M14-81428
SOME ASPECTS OF THE FRACTURE OF METALLIC COMPOSITES 67-11 M17-80142
SOME MECHANICAL PROPERTIES OF BORON-TUNGSTEN BORIDE FILAMENTS 67-11 M17-80315
MICROSTRAIN BEHAVIOR OF METAL MATRIX COMPOSITES 67-11 M17-81129
FATIGUE OF BORON FILAMENT 67-11 M17-81353
MECHANICAL BEHAVIOR OF A FIBER REINFORCED METAL AND ITS EFFECT ON ENGINEERING APPLICATION 67-11 M17-81518
GRAPHICAL CALCULATION OF THE CHARGE COMPOSITION OF MULTICOMPONENT SINTERED MATERIALS 67-12 M09-82201
THE AGE OF COMPOSITE MATERIALS 67-12 M09-83277
FABRICATION AND EVALUATION OF SAPPHIRE WHISKER REINFORCED ALUMINUM COMPOSITES 67-12 M14-81737
HIGH STRENGTH AND THE PROBLEM OF THREAD-LIKE CRYSTALS 67-12 M14-83310
X-RAY LINE BROADENING AND RESIDUAL STRESS STUDIES OF COMPOSITE MATERIALS 67-12 M17-81820
AN INVESTIGATION OF THE FATIGUE BEHAVIOR OF TUNGSTEN-REINFORCED AND STEEL- REINFORCED SILVER COMPOSITES 67-12 M17-82974
OBSERVATIONS ON THE TENSILE STRENGTH OF AMORPHOUS BORON 67-12 M17-83012
COMPOSITE MATERIALS 67-12 M20-83004
FIBERS
SEE ALSO GLASS FIBERS
GLASS WOOL
METAL FIBERS
SLAG WOOL
WHISKERS /METALS/
FIBERS, COMPOSITE MATERIALS
FABRICATION AND EVALUATION OF SAPPHIRE WHISKER REINFORCED ALUMINUM COMPOSITES 67-12 M14-81737
FIBERS, CRYSTAL LATTICES
THE TUNGSTEN BORIDES IN BORON FIBERS 67-06 M13-71620
FIBERS, FIBER METALLURGY
USE OF BORON NITRIDE FIBERS IN COMPOSITES 67-07 M09-73342
FIBERS, MECHANICAL PROPERTIES
A TENSILE FAILURE MECHANISM FOR WHISKER REINFORCED COMPOSITES 67-06 M17-70615
PROPERTIES OF PYROLYTICALLY PRODUCED BORON FIBERS 67-06 M17-71619
STRUCTURE AND PROPERTIES OF ALUMINUM OXIDE WHISKERS 67-07 M17-73135
FIBERS, MICROSTRUCTURE
AMORPHOUS BORON FIBERS 67-05 M13-69223
FIELD CORROSION TESTS
FIELD TEST RESULTS OF HIGH-PRESSURE FEED WATER HEATER TUBING MATERIALS OF A POWER PLANT 67-02 M18-59143
CORROSION MONITORING IN OIL WELLS WITH A RADIOACTIVE SPECIMEN 67-02 M18-60252
FIELD EMISSION
CESIUM ADSORPTION ON THE FACES OF A TUNGSTEN SINGLE CRYSTAL 67-06 M14-70512
EMISSION AND ADSORPTION PROPERTIES OF THE W-LA SYSTEM 67-06 M16-70510
PHOTOSENSITIVE FIELD ELECTRON EMISSION FROM IN2S3 67-07 M16-72961
FIELD-EMISSION MICROSCOPY 67-08 M13-74694
FIELD EMISSION OF CHROMIUM, COBALT AND HAFNIUM 67-09 M13-76452
NOTE ON THE FIELD EMISSION MICROSCOPIC OBSERVATION OF DECOMPOSITION OF HYDRAZINE ON RHENIUM 67-09 M16-77018
FIELD EMISSION FROM P-TYPE GERMANIUM 67-11 M15-80224
MEASUREMENTS OF THE POLARIZATION OF FIELD EMITTED ELECTRONS FROM POLYCRYSTALLINE GADOLINIUM 67-11 M16-80781

SCHOTTKY FIELD EMISSION THROUGH AL-AL2O3-AL STRUCTURES 67-12 M16-81848
ATOMIC PERFECTION AND FIELD EMISSION FROM TUNGSTEN --110-- SURFACE 67-12 M16-83013
FIELD ION MICROSCOPY
A FIELD-ION MICROSCOPE OPERATING AT LIQUID NEON TEMPERATURE 67-01 M13-58690
IMAGE CONVERSION IN FIELD-ION MICROSCOPY 67-01 M13-58691
A FIELD ION MICROSCOPE STUDY OF NEUTRON IRRADIATED TUNGSTEN 67-01 M16-57562
FIELD ION MICROSCOPIC OBSERVATIONS OF DISLOCATION STRUCTURES AT GRAIN BOUNDARIES 67-02 M13-61828
ELECTROPOLISHING APPARATUS FOR COMPARATIVE FIELD-ION AND ELECTRON MICROSCOPY 67-04 M13-66734
NITROGEN ON RHENIUM OBSERVED WITH THE FIELD EMISSION MICROSCOPE 67-04 M14-67742
A FIELD-ION MICROSCOPE STUDY OF GRAIN BOUNDARIES IN IRON 67-06 M13-70421
A CRYOGENICALLY PUMPED ALL-METAL FIELD ION MICROSCOPE 67-06 M13-70580
ELECTRON MICROSCOPE HOLDERS FOR VIEWING THIN WIRE SPECIMENS AND FIELD-ION MICROSCOPE TIPS 67-06 M13-71016
DEFECTS IN DOPED TUNGSTEN SEEN WITH THE FIELD-ION MICROSCOPE 67-06 M13-71062
STRUCTURE OF LOW-ANGLE GRAIN BOUNDARIES IN TUNGSTEN 67-06 M13-72363
STUDY OF THE EMISSION PROPERTIES OF GERMANIUM ON VARIOUS FACES OF A TUNGSTEN SINGLE CRYSTAL 67-06 M16-70506
FIELD ION MICROSCOPY OF THE PLATINUM METALS 67-07 M13-72878
LATTICE DEFECTS 67-07 M13-73675
A FIELD-ION MICROSCOPE STUDY OF SEGREGATION TO GRAIN BOUNDARIES IN IRIDIUM 67-07 M13-73904
FIELD-EMISSION MICROSCOPY 67-08 M13-74694
FIELD EVAPORATION OF METALS IN FIELD ION MICROSCOPE 67-08 M13-75083
A FIELD ION MICROSCOPE INVESTIGATION OF OXYGEN IN TUNGSTEN 67-08 M13-75981
ION BOMBARDMENT OF W BY INERT-GAS IONS AND SUBSEQUENT ADSORPTION OF O2 AS OBSERVED IN THE FIELD EMISSION MICROSCOPE 67-08 M14-75047
FIELD EMISSION MICROSCOPIC OBSERVATION OF EFFECTS OF OXYGEN OR AIR ON THE HIGH TEMPERATURE TUNGSTEN CATHODE 67-09 M14-77878
ELASTIC DEFORMATION OF FIELD-ION-MICROSCOPE TIPS 67-09 M17-77433
THE IDENTIFICATION OF RHENIUM IN TUNGSTEN-RHENIUM ALLOYS USING THE FIELD-ION MICROSCOPE 67-10 M13-78906
FIELD ION MICROSCOPY OF NI-MO ALLOYS 67-10 M13-78916
HELIUM FIELD-ION MICROSCOPY OF HEXAGONAL CLOSE-PACKED METALS 67-10 M13-79554
INTERSTITIAL REMOVAL IN STAGE-III RECOVERY OF NEUTRON-IRRADIATED W 67-10 M14-79280
STUDY OF BARIUM ADSORPTION ON GERMANIUM BY FIELD-EMISSION MICROSCOPY 67-10 M16-79021
INFLUENCE OF IMPURITIES ON THE CHANGES IN PLATINUM SURFACE AS INDICATED BY FIELD ION MICROSCOPY 67-11 M13-80602
FIELD ION MICROSCOPE OBSERVATIONS OF A W-1 PER CENT OS ALLOY 67-11 M13-80770
FIELD-ION MICROSCOPY OF COBALT 67-11 M13-81088
THE PROMISE OF FIELD-ION MICROSCOPY 67-12 M13-82273
FIELD-ION MICROSCOPY OF TITANIUM CARBIDE 67-12 M13-82552
ORDERED PT3-CO ALLOY STUDIED IN THE FIELD-ION MICROSCOPE 67-12 M14-82365
FIELD STRENGTH
FIELD STRENGTH MEASUREMENTS IN THE PENETRATING ARC 67-08 M11-74764
FIELD THEORY
IMPROVEMENT OF QUANTUM EFFICIENCY IN GALLIUM ARSENIDE ELECTROLUMINESCENT DIODES 67-10 M15-79121
FIELDS /PHYSICS/
SEE ELECTRIC FIELDS
ELECTROMAGNETIC FIELDS
ELECTROSTATIC FIELDS
MAGNETIC FIELDS
FIGHTERS
SEE MILITARY PLANES
FILAMENT WOUND CONSTRUCTION
FILAMENT METHODS CALLED BEST FOR MISSILES 67-06 M20-71709
ADVANCED FIBROUS REINFORCED COMPOSITES 67-07 M09-73369
FIBER-REINFORCEMENT OF METALS BY FILAMENT-WINDING AND ELECTROFORMING TECHNIQUE 67-10 M09-79171
FILAMENT WOUND CONSTRUCTION, AEROSPACE
FABRICATION OF FILAMENT WOUND BORON REINFORCED COMPOSITES FOR RE-ENTRY VEHICLE APPLICATIONS 67-06 M09-70620
FILAMENT WOUND CONSTRUCTION, MECHANICAL PROPERTIES
A TENSION TEST METHOD FOR HIGH MODULUS, HIGH-STRENGTH FILAMENTS 67-10 M17-79175
FILAMENTS
SEE ALSO HEATERS /TUBE/
THREADS /FILAMENTS/
METAL MATRIX COMPOSITE MATERIALS 67-05 M09-68497
HIGH MODULUS FILAMENTS FOR METAL MATRIX REINFORCEMENTS 67-05 M09-68904
TWO TYPES OF HIGH-TEMPERATURE WELDABLE STRAIN GAGES--NI-CR HALF-BRIDGE FILAMENTS AND PT-W HALF-BRIDGE FILAMENTS 67-10 M19-78777
METAL MATRIX COMPOSITE MATERIALS--THEIR REINFORCING COMPONENTS AND THEIR PROBLEMS 67-12 M14-82046
FILAMENTS, CASTING
BORON FILAMENT GRADUATES TO PRODUCTION 67-01 M14-57224
FILAMENTS, COATING
THE FREEZE-COATING OF FILAMENTS 67-07 M12-72887
FILAMENTS, CRYSTAL GROWTH
GROWTH OF WHISKER CRYSTALS AND RELATED MORPHOLOGIES BY ELECTROTRANSPORT 67-01 M14-58694
TIN WHISKERS AND FILAMENTARY GROWTHS ON A THIN FILM CONDUCTOR IN RESPONSE TO DIRECT-CURRENT FLOW 67-11 M14-80831
FILAMENTS, CRYSTAL LATTICES
THE TUNGSTEN BORIDES IN BORON FIBERS 67-06 M13-71620
FILAMENTS, DIFFUSION
INVESTIGATION OF THE DIFFUSION IN COPPER MICROWIRES 67-06 M14-70336
DIFFUSION OF ZINC IN COPPER CRYSTAL FILAMENTS 67-10 M14-79847
FILAMENTS, ELECTRICAL PROPERTIES
IMPROVED SURFACE IONIZATION EFFICIENCY BY HIGH WORK FUNCTION REFRACTORY METALS AND ALLOYS 67-03 M16-65870
FILAMENTS, MACHINING
SPARK EROSION FABRICATION OF SINGLE CRYSTAL TUNGSTEN RIBBON FILAMENTS 67-04 M08-67402
FILAMENTS, MECHANICAL PROPERTIES
PROPERTIES OF PYROLYTICALLY PRODUCED BORON FIBERS 67-06 M17-71619
MEASURING THE ELASTIC MODULI OF INORGANIC FILAMENTS 67-07 M17-73136
A TENSION TEST METHOD FOR HIGH MODULUS, HIGH-STRENGTH FILAMENTS 67-10 M17-79175
SOME MECHANICAL PROPERTIES OF BORON-TUNGSTEN BORIDE FILAMENTS 67-11 M17-80315
FATIGUE OF BORON FILAMENT 67-11 M17-81353
OBSERVATIONS ON THE TENSILE STRENGTH OF AMORPHOUS BORON 67-12 M17-83012
FILAMENTS, OPTICAL PROPERTIES
OPTICAL CONSTANTS OF INCANDESCENT REFRACTORY METALS 67-02 M15-60687
FILAMENTS, SEMICONDUCTORS
ACOUSTOELECTRIC EFFECT IN SEMICONDUCTING CDS 67-04 M16-66776
FILES /TOOLS/, HEAT TREATMENT
NITRIDABLE TITANIUM STEELS AND THEIR APPLICATION IN THE PRODUCTION OF MILL PRODUCTS 67-07 M10-74212
FILINGS
SEE CHIPS
FILLER METAL
DEVELOPMENT OF FILLER METALS FOR WELDING AL-ZN-MG ALLOY 7039 67-01 M11-58776
TEMPERATURE FIELD AND SCHEDULES FOR ARC-DEPOSIT WELDING WITH A TAPE ELECTRODE 67-01 M12-58186
PROPOSAL FOR A CLASSIFICATION OF WELDING WIRES AND FLUXES FOR SUBMERGED ARC WELDING 67-02 M11-59759
MECHANIZED DEVICES FOR WELDING WITH FILLED WELDING WIRES 67-02 M11-59969
THE SS WELDING PROCESS --IMPROVED SUBMERGED ARC

FILLER METAL
WELDING-- 67-03 M11-65819
BRAZING MOLYBDENUM AND ZIRCON SENSOR COMPONENTS 67-03 M11-65979
BRAZING STRONG, RELIABLE JOINTS 67-05 M11-68773
GRANULAR METAL FILLER METALS FOR ARC WELDING 67-06 M11-71680
WELDING OF ALUMINUM AND ALUMINUM ALLOYS 67-09 M11-76459
THE WELDING OF FINE-GRAINED STEELS 67-09 M11-76808
STUDIES ON THE EFFECTS OF LACK OF PENETRATION AND BEAD PROFILES ON THE FATIGUE OF WELDED ALUMINUM ALLOY. PT. 2 67-12 M17-81903
FILLER METAL, COMPOSITION EFFECTS
SUBMERGED ARC WELDING OF STAINLESS STEELS 67-08 M11-75359
FILLER METAL, MECHANICAL PROPERTIES
FLUX-CORED WLEDING FILLER METAL STRENGTHENS PLATFORM TRAILERS 67-08 M11-76068
FILLER METAL, WELDING
AUTOMATIC WELDING WITH ADDITION OF IRON PELLETS 67-06 M11-71853
AUTOMATIC WELDING WITH IRON PELLETS ADDED 67-11 M11-80885
FILLET WELDING
SEE FILLETS
WELDING
FILLET WELDS
SEE FILLETS
WELDED JOINTS
FILLETS
PARTIAL PROJECTIONS CAUSED BY FILLET WELDING ON THE SURFACE OF HULL PLATING 67-02 M11-60041
VERTICAL MECHANIZED MIG WELDING OF ALUMINIUM 67-10 M11-80089
FLUX CORED WIRE --NO GAS-- PROCESS FOR STEEL 67-11 M11-81005
BARE WIRE, SPRAY ARC-CO2 GAS SHIELDED PROCESS FOR STEELS 67-11 M11-81006
VERTICAL MECHANIZED MIG WELDING OF ALUMINUM 67-12 M11-83162
FILLETS, MECHANICAL PROPERTIES
STRENGTH OF ARC WELDED CRUCIFORM JOINTS IN STEEL ST. 3 67-05 M11-68261
DEFORMATION AND STRENGTH OF END FILLET WELDS 67-06 M17-71600
SOME FACTORS AFFECTING THE FATIGUE STRENGTH OF FILLET WELDS 67-08 M17-75363
CRACKS IN THE BOTTOM PLATING AT THE STERN OF A SHIP 67-08 M17-75535
INFLUENCE OF WELD THICKNESS ON THE STATIC STRENGTH OF SIDE FILLET WELDS 67-10 M11-79181
FILLETS, MECHANICAL TESTS
STRENGTH OF WELDED CRUCIFORM JOINTS OF ST. 3 STEEL DURING ARC WELDING 67-02 M11-61261
FILMS
SEE MAGNETIC FILMS
METAL FILMS
THIN FILMS
FILTERING
SEE FILTRATION
FILTERS /FLUID/
SEE ALSO DUST FILTERS
SINTERED, POROUS METALLIC ELEMENTS--THEIR PROPERTIES AND USES 67-04 M09-67397
THE PUSH FOR PERMEABILITY 67-06 M09-72316
FILTERING ALUMINUM ALLOYS 67-12 M03-81971
FILTERS /FLUID/, CORROSION
SINTERED FILTERS FOR FILTERING CORROSIVE LIQUIDS AND HOT GASES 67-01 M18-57601
FILTERS /FLUID/, MATERIALS
EFFECT OF SPHEROIDIZATION ON THE STRUCTURE AND PROPERTIES OF POWDERS 67-04 M09-67332
FILTERS /FLUID/, PERMEABILITY
THE MOTION OF GASES AND LIQUIDS IN POROUS SINTERED MATERIALS 67-02 M09-62125
FILTERS /FLUID/, PHYSICAL PROPERTIES
STUDY OF THE PERMEABILITY OF POROUS MATERIALS OF REFRACTORY COMPOUNDS 67-05 M09-68703
PERMEABILITY OF POROUS MATERIALS FROM REFRACTORY COMPOUNDS 67-12 M09-82679
FILTERS /FLUID/, POWDER METALLURGY
INVESTIGATION OF THE FILTERING PROPERTIES OF BIMETALLIC SINTERED FILTERS 67-02 M09-61705
SELECTION OF POWDERS FOR OBTAINING PRESET PROPERTIES OF POROUS SHEET MATERIALS AND PRESSINGS 67-04 M09-66253
THE DEPENDENCE OF THE UNEVEN VERTICAL DISTRIBUTION OF THE PROPERTIES OF SINTERED FILTER ELEMENTS ON THE TECHNOLOGY OF THEIR MANUFACTURE 67-06 M09-70967
STUDY OF THE PROPERTIES AND OF THE PROCESS OF SINTERING POWDERED METAL FILTERS USING RESISTOMETRIC METHODS 67-08 M09-75463
MANUFACTURE OF POWDER COMPOSITE FILTERS FROM POWDERED WASTE PRODUCTS FORMED DURING SPARK MACHINING OF METALS AND ALLOYS 67-08 M09-75470
FILTERING PROPERTIES OF TWIN-LAYER SINTERED FILTERS 67-08 M09-75850
NEW TECHNIQUES FOR MAKING FILTERS FROM TIN-PLATED BRONZE FRACTIONS 67-09 M09-76571
INVESTIGATION OF SINTERING AND PROPERTIES OF POROUS BRIQUETS MADE OF GRANULATED CHROMIUM AND CHROMIUM-BASE POWDERS 67-12 M09-82208
INVESTIGATION OF SINTERING AND PROPERTIES OF CHROMIUM-BASE COMPACTS 67-12 M09-83554
FILTERS /FLUID/, POWDER METALLURGY PARTS
FILTERS FOR HIGH DEGREE OF REFINEMENT 67-08 M09-75467
FILTERS /FLUID/, SERVICE TIME
FILTERING SECONDARY ALUMINUM ALLOYS 67-04 M03-67510
FILTERS /FLUID/, WELDING
A METHOD FOR MANUFACTURING OF LARGE-SIZE POROUS TUBES 67-04 M09-66268
METHOD OF PRODUCING LARGE POROUS PIPES 67-10 M09-79000
FILTRATION
FILTERING SECONDARY ALUMINUM ALLOYS 67-04 M03-67510
FILTRATION OF LIGHT METAL MELTS 67-07 M03-73490
PROCESS KINETICS OF OIL FILTRATION THROUGH PORES OF ANTIFRICTION POWDER COMPOSITES 67-08 M09-74917
FILTRATION OF ELECTROPLATING SOLUTIONS 67-10 M12-78455
FILTERING ALUMINUM ALLOYS 67-12 M03-81971
FINE STRUCTURE
X-RAY K ABSORPTION EDGES OF ALLOYS. PT. 1. CORRELATION TO BAND MODELS 67-11 M16-80118
X-RAY K ABSORPTION EDGES OF ALLOYS. PT. 2. NICKEL-COBALT AND NICKEL-IRON SOLID SOLUTIONS 67-11 M16-80119
FINES
SEE ALSO ULTRAFINES
A CASE FOR PELLETIZING 67-04 M04-66599
THE HYDROGEN CONTENT IN THE PRODUCTION OF BASIC OXYGEN STEELS 67-07 M04-72910
INFLUENCE OF THE PRINCIPAL SINTERING PARAMETERS ON SIDELORS PLANT IN ROMBAS 67-09 M02-77838
FINES, MECHANICAL PROPERTIES
EFFECT OF BASICITY ON THE PROPERTIES OF ORE SINTER 67-08 M09-75589
FINISHING
ROLLING MILL AT FUSINA 67-07 M07-74262
FINISHING MILLS
SEE ALSO COLD STRIP MILLS
COLD TANDEM MILLS
ROD MILLS /ROLLING/
REPUBLICS NEW PLATE MILL AT GADSDEN 67-06 M07-71005
REPUBLIC STEELS NEW PLATE MILL AT GADSDEN 67-07 M07-72775
A MODERN WIDE-FLANGE BEAM MILL 67-07 M07-73331
FINISHING MILLS, AUTOMATION
MEDIUM SECTION MILL AT LANCASHIRE STEEL MANUFACTURING COMPANY, LIMITED 67-08 M07-74657
FINS, WELDING
MANUFACTURE OF FINNED TUBE FOR HIGH-PRESSURE GAS SYSTEMS 67-11 M07-81525
FINS /COOLERS/
PRODUCTION OF FINNED TUBES BY ROLLING 67-07 M07-74002
FINS /COOLERS/, WELDING
FINNED WALLS IN MODERN STEAM PRESSURE VESSEL CONSTRUCTION. PT. 1 67-04 M11-68005
RW CLOSER, THINNER FINS FOR BETTER TUBE HEAT EXCHANGE 67-05 M11-68432
FINSIDER PROCESS
SEE DIRECT REDUCTION
PELLETING
SHAFT FURNACES
SPONGE IRON

FIREBOXES
SEE COMBUSTION CHAMBERS
FIREBRICK
REFRACTORIES IN TRANSITION 67-01 M05-58494
PROBLEMS OF THE USERS OF REFRACTORIES FOR REHEATING FURNACES 67-02 M07-62038
EVOLUTION OF REFRACTORY MATERIALS FOR REHEATING FURNACES 67-02 M07-62039
THE EFFECT OF CARBON IN TAR-IMPREGNATED BURNT MAGNESITE BRICK ON THE WEAR OF BASIC OXYGEN FURNACE LININGS 67-07 M04-72710
FIREBRICK, CHEMICAL ANALYSIS
PRECISION COMPARISON OF FLUORESCENT X-RAY ANALYSIS BY THE LOOSE POWDER AND BRIQUET TECHNIQUES 67-02 M04-59122
FLUORESCENT X-RAY ANALYSIS OF IRON ORES, REFRACTORY BRICKS AND SLAGS--ERRORS OF DETERMINATION 67-09 M19-77986
FIREBRICK, CORROSION
INVESTIGATION OF INSULATING BRICK IN STEEL PLANT SERVICE 67-01 M04-58453
INHIBITION OF THE REACTION OF MOLTEN ALUMINUM ON REFRACTORIES CONTAINING SILICA, BY TRACES OF MAGNESIUM 67-02 M03-62000
FIREBRICK, DIFFUSION
DIFFUSION OF OPEN HEARTH SLAGS IN BASIC REFRACTORIES 67-08 M14-75524
FIREBRICK, LINERS
INVESTIGATIONS OF WEAR PHENOMENA OF BLAST FURNACE LININGS 67-06 M04-70975
FIREBRICK, MECHANICAL PROPERTIES
TUNDISH NOZZLE BRICKS FOR THE CONTINUOUS CASTING OF STEEL 67-06 M04-72276
WHY REFRACTORY BLAST FURNACE LININGS UNDERGO WEAR 67-11 M04-81626
FIREBRICK, PHYSICAL PROPERTIES
CHARACTERISTICS OF REFRACTORY INSULATING MATERIALS 67-01 M15-58539
TEMPERATURE DISTRIBUTION IN THE HEARTH OF A BLAST FURNACE WITH AIR-COOLED BOTTOM 67-08 M04-75110
EVALUATION OF OPEN-HEARTH ROOF BRICK 67-09 M04-77965
BEHAVIOR OF HIGH-FIRED BASIC BRICK IN SPRUNG ARCHES 67-09 M05-76455
FIREBRICK, REACTIONS /CHEMICAL/
CERAMIC THERMOCHEMISTRY. PT. 2 67-06 M05-70611
FIREBRICK, SERVICE TIME
DEVELOPMENTS IN THE USE OF DIRECT-BONDED BRICK 67-11 M04-80109
FIREBRICK, THERMAL PROPERTIES
LINEAR CHANGE IN BASIC BRICK UNDER CYCLED TEMPERATURES 67-08 M15-75523
FIREBRICK, WEAR
HOW REFRACTORY QUALITY AFFECTS GAS FLAME FURNACE LINING SERVICE 67-04 M05-67877
WHY REFRACTORIES WEAR 67-06 M05-70845
REFRACTORY REQUIREMENTS FOR LARGE INDUCTION FURNACES IN THE FERROUS FOUNDRY 67-08 M05-76167
FIRING
THE PROBLEM OF HUMIDIFYING THE HOT BLAST WHEN USING NATURAL GAS 67-08 M04-74574
REGULATING EXCESS OF AIR IN OPENHEARTH FURNACES WITH DIFFERENT CAPACITIES 67-08 M04-75714
CONVERTING OPENHEARTH FURNACES AT CHELYABINSK TUBE ROLLING-MILLS TO RUN ON NATURAL GAS 67-08 M04-75715
CHARACTERISTIC CHANGES IN CHARGE MATERIALS IN A BLAST FURNACE WHEN OPERATING ON STEAM BLAST AND NATURAL GAS 67-08 M04-75864
USE OF BLENDS OF OIL AND PITCH TO IMPROVE OPENHEARTH FURNACE PERFORMANCE 67-08 M04-76201
FIRING DEFORMATION OF CERAMIC BODIES 67-08 M05-75521
PARTIAL COMBUSTION OF FUEL OIL WITH OXYGEN AND APPLICATION TO SMELTING IRON ORE 67-09 M04-76475
THE BLOWING OF HEAVY HEATING OIL INTO THE BLAST FURNACE 67-10 M04-78650
OIL ADDITIONS TO THE BLAST IN BLAST FURNACES OF THE VEB --PEOPLE-OWNED ENTERPRISE-- MAXHUTTE-- RESULTS OF ONE YEARS OPERATION 67-10 M04-78651
DEVELOPMENT OF BLAST-FURNACE OPERATING TECHNOLOGY USING A COAL/FUEL-OIL FUEL 67-10 M04-79255
THE BUBBLE STRUCTURE OF GROUND COAT ENAMELLED SHEET STEELS 67-10 M12-79584
FISH SCALE
SEE FLAKES /DEFECTS/
FISSILE MATERIALS
SEE NUCLEAR FUELS
FISSION /NUCLEAR/
SEE NUCLEAR FISSION
FISSION DAMAGE
SEE DAMAGE
RADIATION EFFECTS
FISSION PRODUCTS
DETERMINATION OF URANIUM SURFACE-CONCENTRATION OF COATED PARTICLES 67-01 M16-58232
ELECTRON MICROSCOPE OBSERVATION OF THE FISSION-GAS BUBBLE DISTRIBUTION IN UO2 67-05 M13-68347
FISSION-GAS RELEASE FROM UO2 DURING IRRADIATION UP TO 2000 C 67-05 M16-68349
FISSION-GAS RELEASE DURING FISSIONING IN UO2 67-05 M16-68350
STUDIES OF CERAMIC FUELS WITH THE USE OF FISSION GAS RELEASE LOOP. PT. 1. FISSION GAS RELEASE FROM UO2-GRAPHITE MIXTURE DURING IRRADIATION 67-08 M16-75804
DIFFUSION OF XENON IN COPPER 67-09 M14-78263
THE DISTRIBUTION OF AND SWELLING PRODUCED BY FISSION GAS BUBBLES IN ALPHA AND BETA URANIUM IRRADIATED UNDER LOW STRESS 67-09 M16-78257
MIGRATION OF GAS BUBBLES IN IRRADIATED URANIUM DIOXIDE 67-10 M16-79593
THE PURIFICATION OF PLUTONIUM BY ANION EXCHANGE IN NITRIC ACID 67-11 M16-80196
APPLICATION OF LIQUID-LIQUID EXTRACTION TO THE TREATMENT OF IRRADIATED COMBUSTIBLES. PT. 2 67-12 M16-81801
SIMULTANEOUS SEPARATION OF THE ELEMENTS RA, PU, U, AM AND CM FROM IRRADIATED THORIUM 67-12 M16-82238
VAPORIZATION OF FISSION PRODUCTS FROM IRRADIATED FUELS. PT. 1. EXPERIMENTAL METHOD AND GENERAL FISSION-PRODUCT BEHAVIOR 67-12 M16-82698
FISSION PRODUCTS, DIFFUSION
DIFFUSION IN DOPED UO2 67-05 M16-68348
DIFFUSION OF FISSION PRODUCTS IN CERAMIC FUELS 67-08 M14-74418
FISSION PRODUCTS, PRESSURE MEASUREMENT
CALCULATION OF FISSION-PRODUCT GAS PRESSURES IN OPERATING UO2 FUEL ELEMENTS 67-08 M19-74469
FISSION REACTORS
SEE NUCLEAR REACTORS
FISSURES
SEE CRACKS
FITTING
SEE SHRINK FITTING
FITTINGS
SEE ALSO PIPE FITTINGS
TUBE FITTINGS
FITTINGS, WELDING
CONTINUOUS MULTILAYER BUILDUP UNDER FLUX WITHOUT REMOVING THE SLAG SKIN 67-04 M11-66437
CONTINUOUS MULTI-PASS SUBMERGED ARC METAL DEPOSITION WITHOUT REMOVAL OF THE SLAG CRUST 67-07 M11-72696
FIXTURES
MAGNESIUM TOOLING--ALL SIGNS SAY GO 67-01 M20-57234
VIBRATORY FIXTURE PROCESSING 67-09 M12-77187
FLAKE GRAPHITIC STRUCTURE
BEHAVIOR OF GRAPHITE IN HYPEREUTECTIC IRON-CARBON ALLOY BY QUENCHING METHOD. PT. 2 67-01 M14-58548
ANNUAL REVIEW OF CAST IRON WITH FLAKE GRAPHITE. PT. 3 67-03 M06-65354
EVALUATION ON THE QUALITY OF FLAKE GRAPHITE CAST IRON 67-03 M17-65843
ON DIRECTIONAL FREEZING OF GRAY IRON 67-04 M06-67568
THE RELATION BETWEEN THE DRY WEAR OF CAST IRON AND ITS STRUCTURE 67-04 M17-67112
STRESS/RUPTURE PROPERTIES OF A LARGE CAST-IRON COMPONENT 67-05 M17-68429
X-RAY STRESS MEASUREMENT OF GRAY IRON CASTING WITH FLAKE GRAPHITE AND MALLEABLE IRON CASTING 67-05 M17-68529
FATIGUE PROPERTIES OF CAST IRON IN RELATION TO GRAPHITE STRUCTURE 67-05 M17-69879
CRYSTAL STRUCTURE OF GRAPHITE IN CAST IRON BY X-RAY DIFFRACTION 67-12 M13-82602
RELATION BETWEEN OXIDATION AND DECARBURIZATION OF CAST IRON 67-12 M18-82450
FLAKES /DEFECTS/

FLAKES /DEFECTS/
A DECADE OF VACUUM DEGASSING AT U. S. STEEL. PT. 2 67-05 M06-69551
INFLUENCE OF THE PICKLING ADDITIONS ON FISH SCALE DEFECTS OF ENAMEL COATINGS 67-05 M12-69835
HYDROGEN DIFFUSION TESTING OF SHEET SUSCEPTIBLE TO FISH SCALE 67-09 M12-78053
INFLUENCE OF ETCHING ADDITIVES ON FISH SCALE FLAWS IN ENAMEL COATING 67-12 M12-82268
FLAKING
FLAKE PREVENTIVE TREATMENT OF CONTINUOUS CAST SHEET BILLETS OF CHROMIUM STEELS 67-06 M04-71248
THE FEASIBILITY OF LOWERING THE FLAKING SUSCEPTIBILITY OF STEEL BY ADDING SMALL AMOUNTS OF PALLADIUM 67-06 M17-69977
ANTI-FLAKE TREATMENT OF CONTINUOUSLY CAST CHROMIUM-NICKEL STEEL SLABS 67-08 M04-75717
REMOVAL OF HYDROGEN FROM SMALL FORGINGS 67-08 M10-74354
INTERDEPENDENCE BETWEEN THE FLAKE-FORMING SUSCEPTIBILITY OF STEEL, HYDROGEN CONTENT AND HEAT TREATING CONDITIONS 67-08 M17-75285
THE STRESS CORROSION FRACTURE OF HEAT TREATED STEEL EXPOSED TO NH4SCN SOLUTIONS 67-10 M18-78920
EFFECT OF HEAT TREATMENT ON THE AMOUNT AND DISTRIBUTION OF HYDROGEN IN LARGE FORGINGS 67-12 M10-81876
INVESTIGATION OF 1KH12VNMF STEEL FOR FORGED TURBINE ROTORS 67-12 M17-81839
MAIN REASONS FOR FLAKING IN STEELS AND THE SIGNIFICANCE OF ACID OPENHEARTH STEEL 67-12 M18-81784
FLAKING, ALLOYING EFFECTS
REDUCING THE SUSCEPTIBILITY OF NICKEL-CHROMIUM QUENCHED AND TEMPERED STEEL TO FLAKING 67-12 M17-81951
FLAME CLEANING
GAS-FLAME CLEANING OF STEEL SURFACE 67-06 M12-70394
MACHINE FOR FLAME SCARFING OF HOT BLOOMS AND SLABS 67-09 M12-76834
THE SURFACE FLAME CLEANING OF STEEL 67-09 M12-78094
FLAME COATING
SEE COATING
FLAME SPRAYING
FLAME CUTTING
SEE ALSO OXYACETYLENE CUTTING
OXYGEN CUTTING
UNDERWATER CUTTING
FLAME CUTTING TO TIGHT SPECS 67-03 M08-65037
NEW KNOWLEDGE CONCERNING THE FUNCTIONING OF THE FLAME CUTTING PROCESS 67-08 M08-75787
INVESTIGATION OF THE VARIOUS PARAMETERS INFLUENCING THE MACHININC OF A SHAPED GROOVE BY FLAME CUTTING 67-09 M08-77977
A NOTE ON THE INFLUENCE OF CUTTING SPEED ON THE HARDNESS OF FLAME CUT BS. 968 --1962-- STEEL 67-09 M17-76359
TECHNICAL MEMO NO. 25--FLAME CUTTING 67-10 M11-79797
TRANSFORMATIONS AND REACTIONS IN THE HEAT AFFECTED ZONE DURING WELDING AND FLAME CUTTING 67-12 M11-83205
FLAME CUTTING, STRESS EFFECTS
INVESTIGATIONS INTO THE COLD WORKING PROPERTIES OF THE HEAT AFFECTED ZONE RESULTING FROM FLAME CUTTING STEEL SHEET METAL 67-09 M17-77339
FLAME DESCALING
SEE DESCALING
FLAME CLEANING
FLAME HARDENING
HEAT TREATMENT OF STRUCTURAL STEELS AND OF TOOL STEELS. PT. 2 67-06 M10-70855
A TECHNICAL AND ECONOMIC COMPARISON OF THE SURFACE-HARDENING OF GUIDEWAYS 67-06 M10-72054
DEFECTS IN THE SURFACE HARDENING OF MACHINE PARTS--THEIR CAUSES AND PREVENTION 67-07 M10-72606
THE PROBLEM OF STRENGTHENING LARGE SIZE COMPRESSOR CRANKSHAFTS 67-07 M10-73199
A STUDY OF PACK CARBURIZING AND SOME CASE HARDENING TECHNIQUES ON 3 PER CENT NI, 1 PER CENT CR CASE HARDENING STEEL 67-07 M10-73201
HEAT TREATMENT OF STRUCTURAL STEEL AND OF TOOL STEELS. PT. 16. FLAME HARDENING 67-07 M10-74221
FLAME PHOTOMETRY
THE DETERMINATION BY FLAME PHOTOMETRY OF POTASSIUM AND SODIUM IN K-NA ALLOYS AND IN MIXTURES OF THE ALKALIES KOH AND NAOH 67-05 M19-69623
FLAME PHOTOMETRY, ALLOYING EFFECTS
THE DETERMINATION OF INDIUM IN MAGNESIUM ALLOYS BY FLAME PHOTOMETRY 67-05 M19-69624
FLAME PLATING
THE FLAME-SPRAYING OF NONMETALLIC PROTECTIVE LAYERS. PT. 8
264 67-01 M12-58437
FLAME-SPRAYED COATINGS. PT. 1 67-07 M12-74162
METALLIC COATINGS SOLVE ENVIRONMENTAL PROBLEMS 67-09 M12-76469
FLAME REDUCTION PROCESS
SEE DIRECT REDUCTION
FLAME SPECTROSCOPY
ATOMIC ANALYSIS IN FLAMES 67-05 M19-69358
THE USE OF HIGH-TEMPERATURE PREMIXED FLAMES IN ATOMIC ABSORPTION SPECTROSCOPY APPLIED TO STEEL WORKS ANALYSES 67-08 M19-76193
FLAME SPRAYING
THE FLAME-SPRAYING OF NONMETALLIC PROTECTIVE LAYERS. PT. 8
264 67-01 M12-58437
THE PLASTIC COATING OF METAL PARTS BY FLAME SPRAYING 67-02 M12-59415
SOME EXAMPLES OF THE USE OF FLAME-SPRAYED COATINGS FOR PROTECTION AGAINST HOT GASES 67-02 M12-62026
GLASS-COATED STEEL ADDS EDGE COAT 67-03 M12-65012
FLAME SPRAYING 67-03 M12-65668
ELECTRICAL PROPERTIES OF AL2O3-NICKEL METAL MULTILAYER FLAME-SPRAYED COATINGS 67-03 M15-65358
METALLIZING AND CORROSION PROTECTION OF INDUSTRIAL EQUIPMENT 67-04 M12-66597
PLASMA FLAME COATINGS 67-04 M12-66687
COATING METAL PARTS WITH PLASTICS BY THE FLAME SPRAYING PROCESS 67-04 M12-66722
COATINGS AND FINISHES 67-04 M12-67538
ON RESIDUAL STRESSES IN SPRAYED COATINGS BY PLASMA-JET
INSTITUTE FOR METALS, PROCEEDINGS. TOKYO, JAPAN. 67-04 M17-67591
PRODUCTS, DEVELOPMENTS, APPLICATIONS FOR CORROSION ENGINEERING--FLAME-SPRAYED ALUMINUM COATINGS FOR MARINE ENVIRONMENTS 67-04 M18-66319
PROTECTION OF STRUCTURAL STEEL BY FLAME-SPRAYED METALS AND PAINTS 67-05 M12-68820
INSTITUTE OF METAL FINISHING TRANSACTIONS 67-05 M12-68833
HARD SURFACING BY OXYGEN-ACETYLENE FLAME, AIDED BY NI AND CO BASE ALLOYS 67-05 M12-69123
THE FLAME SPRAYING OF NONMETALLIC PROTECTIVE COATINGS. PT. 8 67-05 M18-68923
PREVENTING THE CORROSION OF SULFURIC ACID APPARATUS BY METAL SPRAYING 67-06 M12-70399
PROTECTIVE COATINGS HELP TO EXTEND JET ENGINE PART LIFE 67-06 M12-70472
FLAME-SPRAYED COATINGS 67-09 M12-76699
SIMPLIFIED GUIDE TO THERMAL-SPRAY COATINGS 67-10 M12-79183
ELECTRIC INSULATION PROPERTIES OF FLAME-SPRAYED REFRACTORY COATINGS 67-10 M15-79581
POROUS BODIES OF TANTALUM, NIOBIUM, AND ALUMINUM FABRICATED BY METAL SPRAY PROCESSES 67-11 M12-80840
SOME PROPERTIES OF OXYACETYLENE FLAME FOR SPRAYING 67-12 M12-83389
FLAME WELDING
SEE GAS WELDING
FLAMMABILITY
STUDY OF THE PYROPHORIC PROPERTIES OF SUBLIMATES OF LEAD PRODUCTION 67-02 M15-61544
COMBUSTIBILITY OF METALS IN OXYGEN OF UP TO 200 ATMOSPHERES PRESSURE 67-05 M15-69585
CORROSION OF TITANIUM ALLOYS IN NITRIC ACID AT HIGH TEMPERATURE 67-05 M18-69826
EXPLOSIVE PRESSURE OF NICKEL ALLOY AEROSOLS 67-11 M15-81644
FLAMMABILITY OF MAGNESIUM 67-12 M15-82072
BEHAVIOR OF TITANIUM ALLOYS IN NITRIC ACID AT HIGH TEMPERATURES 67-12 M18-82260
FLANGES
CASTING IRON FLANGES OF FINNED TUBES INTO ANODIZED CHILL MOLDS 67-02 M06-61810
FLANGES, CASTING
CASTING IRON FLANGES FOR FINNED PIPES IN ANODISED DIES 67-09 M06-78082

FLANGES, WELDING
MECHANIZED WELDING OF FLANGES IN THE CONSTRUCTION OF RADIO TOWERS 67-04 M11-66875
WELDING FLANGES TO A SPHERE IN AMG6 ALLOY 67-04 M11-67816
WELDING FLANGES TO A SPHERE OF AMG6 ALLOY 67-06 M11-70316
FLANGING
THE USE OF COLD CUTTING AND NIBBLING MACHINES FOR THE FLANGING OF THIN SHEET 67-01 M08-58115
CONTINUOUS CASTING AND ROLLING WIDE-FLANGE BEAM BLANKS 67-04 M04-67188
FORMING, DRAWING AND BLANKING PRODUCTION UNDER HIGH PRESSURE 67-07 M08-73220
PRESSWORK--PRESS TOOLS FOR PRODUCING COMPONENTS FOR FLUID TRANSMISSIONS 67-08 M08-75560
FLASH BUTT WELDING
SEE FLASH WELDING
FLASH LAMPS, MATERIALS
ZR PRODUCERS RESPOND TO NUCLEAR GROWTH 67-10 M20-78472
FLASH MAGNETIC ROASTING
SEE MAGNETIC ROASTING
FLASH PLATING
ELECTROPLATING ALUMINUM--A CONTROLLABLE PROCESS 67-05 M12-68491
THE ADHERENCE OF PORCELAIN ENAMEL TO LOW-CARBON STEEL 67-08 M12-75564
TINPLATE 67-10 M12-79440
STEEL SHEET FOR ONE-COAT VITREOUS ENAMELLING 67-10 M12-79498
COATED SHEET STEEL FOR DIRECT-ON ENAMELING 67-11 M12-80349
FLASH RADIOGRAPHY
SEE RADIOGRAPHY
FLASH WELDING
FLASH-BUTT WELDING FOR RAILS OF NEW TOKAIDO TRUNK LINE 67-02 M11-60168
THE SITUATION REGARDING THE FLASH WELDING OF BOILER TUBES, AND PROSPECTS FOR DEVELOPING THE PROCESS 67-02 M11-60195
DISTRIBUTION OF CHEMICAL ELEMENTS IN THE WELD ZONE DURING BUTT WELDING 67-02 M11-60199
FLASH-BUTT WELDING OF HIGH-AUSTENITIC SHEET STEELS 67-04 M11-67014
THE WELDING OF HIGH ALLOY MATERIALS RELEVANT TO PRESSURE STEAM-REFORMING OF NAPHTHA 67-06 M11-70537
RESISTANCE WELDING TODAY 67-06 M11-72244
RESISTANCE WELDING DESIGN FOR MAGNESIUM 67-08 M11-74442
FLASH WELDING OF AUSTENITIC SHEET STEELS 67-08 M11-74773
CONTACT BUTT WELDING PIECES IN HIGH-STRENGTH ALUMINUM ALLOYS 67-11 M11-80639
USING AN OPTIMIZER TO SELECT A FLASHING-OFF RATE PROGRAM IN CONTACT BUTT WELDING 67-11 M11-80640
BUTT FLASH WELDING OF THIN ALUMINUM STRIPS 67-12 M11-82634
FLASHING
A STUDY OF THE ENERGY DISTRIBUTION AND NUCLEATION OF EVAPORATED GOLD USING A VELOCITY SELECTOR 67-12 M14-82136
FLASKS /DEWAR/
SEE DEWAR FLASKS
FLATTENING
IMPROVING THE QUALITY OF NICHROME MICROWIRE 67-04 M07-66219
FLATTENING MILLS
SEE ROLLING MILLS
FLAW DETECTION
A METALLURGICAL ASSESSMENT OF ULTRASONIC BILLET TESTING 67-04 M19-66656
GAMMA-DEFECTOSCOPE RID-21G FOR QUALITY CONTROL OF WELDED JOINTS IN MAINS 67-04 M19-66876
THE ECONOMY OF TESTING CASTINGS WITH GAMMA RADIATION 67-04 M19-67254
FLAW-MEASURING ULTRASONIC INSPECTION OF SEMIFINISHED METAL PRODUCTS 67-04 M19-67665
EDDY CURRENT TESTING OF TUBES WITH INTERNAL PROBE 67-04 M19-68030
AN ULTRASONIC IMAGING LAMB-WAVE SYSTEM FOR REACTOR-FUEL-PLATE INSPECTION 67-05 M16-68801
THE PRESENT SITUATION IN THE NON-DESTRUCTIVE TESTING OF WELDS 67-05 M19-68265
TUBE CONTROL BY ELECTRONIC SOUND 67-05 M19-68929
ULTRASONIC INSPECTION OF LARGE SOLID-FUEL BOOSTER NOZZLES 67-05 M19-69800
REDUCING DEFECTS IN STEEL SHEETS 67-06 M07-72253
RADIOGRAPHIC ANALYSIS AND STRENGTH OF WELDED JOINTS 67-06 M11-70035
OXYGAS AND INERT GAS WELDING OF ALUMINUM AND ALUMINUM ALLOYS 67-06 M11-71817
ULTRASONIC NONDESTRUCTIVE TESTS. CORROSION AND MATERIAL FLAW DETECTION 67-06 M18-71225
A FLUORESCENT FERROMAGNETIC TESTING AGENT FOR THE MAGNETIC PARTICLE METHOD OF CRACK DETECTION 67-06 M19-70052
ON THE APPLICABILITY OF THE PLATE-WAVE METHOD TO ULTRASONIC TESTING 67-06 M19-70053
NONDESTRUCTIVE TESTING BY MAGNETIC FLAW DETECTION 67-06 M19-70802
MECHANIZED FLAW DETECTION--CHECKS VITAL CAR COMPONENTS 67-06 M19-71203
ON THE INFORMATIONAL VALUE OF ULTRASONIC TESTS WITH RESPECT TO EVALUATING DEFECTS AND TO THE SERVICEABILITY OF TURBINE ROTORS 67-06 M19-71509
ULTRASONIC TESTING IN A LARGE STEEL WORKS 67-06 M19-71891
THE ORIGIN, DETECTION AND IDENTIFICATION OF DEFECTS IN STEEL FORGINGS 67-06 M19-71892
RELATIONSHIP BETWEEN ULTRASONIC DEFECT ECHOES FROM LOW-CARBON RIMMED STEEL BILLETS AND THE INTERNAL DEFECTS OF SEAMLESS TUBE. PT. 1. A STUDY OF THE PROPERTIES OF STEEL-TUBE BLANKS AND THE DEFECTS IN FINISHED STEEL TUBE 67-06 M19-72286
INSPECTION OF SPIRALLY WELDED PIPE 67-07 M19-72705
APPLICATION OF ULTRASONICS IN THE INSPECTION OF RIMMED-STEEL SLAB INGOTS FOR CLEANNESS 67-07 M19-72890
NDT APPLIED TO PIPELINE CONSTRUCTION AND OPERATION IN THE U.S.A. P.2 67-07 M19-74026
CONSIDERATIONS FOR ESTABLISHING ULTRASONIC TEST ACCEPTANCE STANDARDS 67-07 M19-74028
WALL THICKNESS MEASUREMENTS BY NONDESTRUCTIVE METHODS IN THE PRODUCTION OF STEEL TUBES 67-07 M19-74110
ULTRASONIC INSPECTION OF HELICOPTER ROTOR BLADES 67-07 M19-74152
SOME CONSIDERATIONS OF ADVANCED WELDING TECHNOLOGY 67-08 M11-75364
MASS SPECTROGRAPHIC ANALYSIS OF THIN FILMS 67-08 M19-74710
HIGH-ENERGY SECONDARY RADIATION IN METALLURGY FOR FLAW DETECTION 67-08 M19-74868
INDUCTIVE METHOD FOR THE CONTROL OF POWDER COMPOSITE PRODUCTS 67-08 M19-74919
RADIOGRAPHIC CONTROL OF WELDMENTS 67-08 M19-75395
ECONOMICS OF NONDESTRUCTIVE TESTING 67-08 M19-75556
MATERIAL TESTING BY ULTRASONICS 67-08 M19-75599
THE EFFECT OF DEFECTS IN BOILER TUBES ON THE APPLICABILITY AND INDICATIONS OF ULTRASONIC TESTING 67-08 M19-75673
MEASURING, INDICATING AND RECORDING IN HEAVY AND MEDIUM PLATE ROLLING MILLS 67-08 M19-76288
DYNAMIC AND STATIC X-RAY INSPECTION 67-09 M19-76532
POSSIBILITIES OF ERRORS AND FLAWS IN THE HEAT TREATMENT OF TOOLS 67-09 M19-76721
USE OF RADIOACTIVE ISOTOPES IN MINING AND NONFERROUS METALLURGY 67-09 M19-76891
DOUBLE ULTRASONIC PROBE AIDS IN TUBE QUALITY CONTROL 67-09 M19-77150
SPRINGENT INSPECTION OF PRESSURE DIECASTING 67-09 M19-77203
IDENTIFICATION AND CONTROL OF DEFECTS IN STEEL INGOTS USED FOR RAILROAD TRACKS 67-09 M19-78025
RECENT DEVELOPMENTS IN ULTRASONIC AND X-RAY TESTING METHODS 67-10 M19-78593
RADAR PATROLS FOR SURFACE CRACKS 67-10 M19-78861
POSSIBLE APPLICATIONS OF NONDESTRUCTIVE TESTING IN THE PRODUCTION OF STEEL TUBES. PT. 2. DEFECT DETECTION 67-10 M19-79480
SEGREGATION AND INCLUSIONS IN ZIRCONIUM-CONTAINING MAGNESIUM CASTING ALLOYS 67-10 M19-79751
NONDESTRUCTIVE TESTING OF RAILROAD AXLES BY ULTRASOUND 67-11 M19-80389
NONDESTRUCTIVE TESTING 67-11 M19-80483

FLAW DETECTION

ULTRASONICS CUT COST TO INSPECT STEEL CASTINGS 67-11 M19-80523
RADIOGRAPHY OF WELDMENTS 67-11 M19-80574
THE ELECTRON PROBE MICROANALYZER 67-11 M19-81468
PROGRESS WITH THE ELECTRON PROBE MICROANALYZER--1966. QUANTITATIVE X-RAY MICROANALYSIS 67-11 M19-81469

FLAWS
SEE DEFECTS

FLEXIBILITY
ROPE WIRE FOR TODAYS APPLICATIONS 67-02 M17-59011

FLEXURAL MODULUS
SEE MODULUS OF RUPTURE IN BENDING

FLEXURAL STRENGTH
SEE MODULUS OF RUPTURE IN BENDING

FLEXURAL VIBRATION
SEE FATIGUE /MATERIALS/

FLEXURE MODULUS
SEE MODULUS OF RUPTURE IN BENDING

FLEXURE STRENGTH
SEE MODULUS OF RUPTURE IN BENDING

FLO TURNING
SEE FLOW TURNING

FLOATING ZONE MELTING
SEE ZONE MELTING

FLOATING ZONE REFINING
SEE ZONE MELTING

FLOCCULATING
EFFECT OF MAGNETIC FLOCCULATION ON MAGNETIC BENEFICIATION OF ORES 67-06 M02-70208
STUDY OF FORMS OF OLEIC ACID ATTACHMENT AND GRAIN AGGREGATION IN OXIDIZED MINERALS BY INFRA-RED SPECTROSCOPY 67-08 M02-75174
INVESTIGATIONS IN THE FIELD OF HYDROELECTRIC FLOCCULATION 67-10 M02-78564

FLOTATION
BENEFICIATION OF SIDERITE SANDS BY FLOTATION 67-01 M02-57155
FLOTATION PROPERTIES OF MANGANESE ORES USING ANION COLLECTORS 67-01 M02-57160
CYANIDE-FREE FLOTATION OF COPPER-ZINC ORES 67-01 M02-57267
RECOVERING COPPER FROM CONVERTER SLAGS BY FLOTATION 67-01 M02-57268
DIRECT DETERMINATION OF SULFIDIC MOLYBDENUM IN FLOTATION TAILINGS 67-01 M02-57301
SOME DATA ON ORE FLOTATION IN AN EJECTOR FLOTATION MACHINE 67-01 M02-58037
FLOTATION BENEFICIATION OF SLURRIES FROM NICKEL ELECTROLYSIS 67-02 M02-59190
INDUSTRIAL TESTS OF THE BENEFICIATION OF MOLYBDENUM-WOLFRAM ORE FROM THE MIKHAILOVGRADSKO PEREKOP DEPOSIT 67-02 M02-59544
EFFECT OF LOW-MOLECULAR WEIGHT ALIPHATIC ACIDS IN FLOTATION OF CASSITERITE, TANTALITE AND GARNET 67-02 M02-59545
FLOTATION OF CASSITERITE AND WOLFRAMITE FROM SLURRIES OF GRAVITY BENEFICIATION 67-02 M02-59547
RECOVERY OF RUBIDIUM FROM SULFATE SOLUTIONS CONTAINING ZINC 67-02 M02-59597
LABORATORY TESTS OF WOOD RESIN OIL USED FOR FLOTATION OF OXIDE AND MIXED LEAD-ZINC ORES AND MINERALS OF ENVELOPING ROCKS 67-02 M02-59639
METHODS OF IMPROVING FLOTATION TECHNIQUES OF FINELY IMPREGNATED COPPER-ZINC ORES 67-02 M02-59854
FLOTATION OF MOLYBDENUM ORE BY COUNTERFLOW 67-02 M02-61275
DEPRESSION OF SULFIDIC MINERALS BY PRODUCTS OF THE INTERACTION OF ZNSO4 AND NA2CO3 67-02 M02-61540
PRODUCTION OF CESIUM SALTS 67-02 M02-61588
EFFECT OF PULP DENSITY ON PYRITE FLOTATION 67-02 M02-61602
SPHALERITE DEPRESSION IN PYRITIC CONCENTRATES 67-02 M02-61699
INTERACTION OF RUTILE AND GARNET WITH FLOTATION REGULATORS 67-02 M02-61714
USING UNSULFURIZED COMPOUNDS IN THE FLOTATION OF OXIDIZED COPPER ORES 67-02 M02-62041
INVESTIGATION OF THE FLOTATION BEHAVIOR OF TUNGSTEN MINERALS WITH SPECIAL CONSIDERATION OF GRAIN SIZE 67-02 M02-62249
PROBLEMS OF BENEFICIATION OF CARBONACEOUS AURIFEROUS ORES 67-02 M03-59598
AURIFEROUS ORES OF THE EASTERN SAYAN DEPOSITS AND THEIR REPROCESSING 67-02 M03-59600
CESIUM EXTRACTIVE METALLURGY--ORE TO METAL. PT. 3 67-02 M03-61587
THE FLOATABILITY OF FINE-GRAINED HEMATITE 67-03 M02-65203
BIG FLOTATION COLUMN MILL TESTED 67-03 M02-65403
STUDY OF THE INTERACTION OF CATION COLLECTORS WITH BE2SIO4 67-03 M02-65572
STUDY OF THE FLOTATION PROPERTIES OF CASSITERITE, WOLFRAMITE, ILMENITE AND HEMATITE OF ONE OF THE ORE SITES OF THE VIET NAM DEMOCRATIC REPUBLIC 67-03 M02-65573
MECHANISM OF SULFITE COMPLEXES OF IRON IN FLOTATION 67-04 M02-66653
COMPLEX REPROCESSING OF CLINKERS OF ZINC WORKS 67-04 M02-66967
FLOTATION OF COMPLEX IRON ORES 67-04 M02-67827
FLOTATION OF OXIDIZED QUARTZITES FROM THE SOUTH ORE-DRESSING PLANTS COMBINE 67-04 M02-67880
STUDY OF INVERSE FLOTATION OF MIKHAILOVSK QUARTZITES WITH AN ANION COLLECTOR 67-04 M02-67933
SEPARATE CIRCUIT FLOTATION OF COPPER AND COPPER-ZINC ORES AFTER AUTOGENOUS GRINDING 67-05 M02-68770
IMPROVING THE BENEFICIATION OF PEROVSKITE ORES 67-05 M02-68955
THE RATES OF FLOTATION OF MINERAL PARTICLES IN SULPHIDE ORES 67-05 M02-69196
USE OF ZINCATES FOR THE FLOTATION OF POLYMETALLIC ORES 67-05 M02-69309
BEHAVIOR OF RHENIUM MINERALS DURING GRINDING AND FLOTATION 67-05 M02-69527
PROCESSING OF HIGH-IRON ARKANSAS BAUXITE ORES 67-05 M02-69559
SOME FLOTATION TESTS ON ZIRCON AND OTHER BEACH SAND MINERALS 67-05 M02-69885
THE BEHAVIOR OF VERY FINE-GRAINED, COMPLEX SULFIDE ORES DURING FLOTATION 67-05 M03-69118
ON THE INTERRELATIONSHIP OF SEMICONDUCTOR PROPERTIES OF ZINC BLENDE WITH ITS FLOTATION BEHAVIOR 67-05 M16-68954
INDUSTRIAL TESTING OF DZHIZHIKRUT ORE BENEFICIATION SYSTEM 67-06 M02-70187
COMPARATIVE EVALUATION OF COLLECTORS FOR ANTIMONY FLOTATION 67-06 M02-70188
BRIEF REVIEW OF RESEARCH AND CERTAIN CONCLUSIONS ON THE BENEFICIATION OF STANNITE ORES 67-06 M02-70189
METHOD OF PREPARING NATURALLY OIL-SATURATED TITANIUM-BEARING SANDS FOR FLOTATION 67-06 M02-70733
PROCESSING ARSENIC-CONTAINING NICKEL-COBALT ORES 67-06 M02-71128
COMPLEX USE OF SULFIDE COPPER ORE DURING CONCENTRATION 67-06 M02-71341
COLUMN FLOTATION 67-06 M02-71887
THE FLOTATION OF BARITE BY ANION COLLECTORS 67-06 M02-72101
BENEFICIATION OF LOW-GRADE TIN ORES BY FLOTATION 67-06 M03-70972
FLOTATION CHARACTERISTICS OF ILMENITE 67-06 M04-71198
FLOTATION OF GOLD FROM PURE QUARTZ ORES 67-07 M02-72777
HOW SELECTIVE FLOTATION RECOVERS FOUR MINERALS--CHALCOPYRITE, GALENA, SPHALERITE AND PYRITE 67-07 M02-73214
HOW THE POROSITY OF FERRUGINOUS MINERALS AFFECTS THEIR FLOTABILITY 67-07 M02-73484
FLOTATION OF SOME AUSTRALIAN URANIUM ORES 67-07 M02-73608
THE STATE-OF-THE-ART TUNGSTEN AND SCHEELITE --CAWO4-- ORE DRESSING AT THE TUX PLANT AS PRACTICED BY OAMAG 67-07 M02-73728
MILLING A GOLD-BEARING PYRRHOTITE ORE AT DELNITE MINES 67-07 M02-73822
ON THE ACTION OF XANTHATE IN FLOTATION 67-07 M02-73828
BENEFICIATION TESTS ON PHOSPHATE ORES WITH HIGH LIMESTONE CONTENTS BY INSERTION OF FLOTATION 67-07 M02-73880
SEPARATION OF NONFERROUS METAL SULFIDES BY USING NA2S203 67-08 M02-74861
FLOTATION PROPERTIES OF RARE METAL MINERALS 67-08 M02-75165
FLOTATION OF TUNGSTITE-BEARING ORES 67-08 M02-75166
THE EFFECT OF ILLUMINATION ON THE FLOTATION

BEHAVIOR OF MINERALS WITH SEMICONDUCTOR PROPERTIES 67-08 M02-75167
FLOTATION PROPERTIES OF STRUVERITE, TANTALITE, AND MICROLITE 67-08 M02-75168
PYROGALLOL AS A REGULATOR IN NON-SULFIDE MINERAL FLOTATION 67-08 M02-75169
USE OF POTASSIUM PERMANGANATE TO SEPARATE SULFIDE CONCENTRATES 67-08 M02-75170
SELECTIVE DESORPTION OF SODIUM OLEATE FROM PYROCHLORE, ZIRCON, AND MONAZITE BY SODIUM SULFIDE 67-08 M02-75171
FLOTATION OF SILICATES AND OXIDES WITH A MIXTURE OF SHORT-CHAIN FATTY ACIDS 67-08 M02-75172
REACTION OF SODIUM SULFIDE WITH PYROCHLORE, ZIRCON, AND MONAZITE IN FLOTATION WITH SODIUM OLEATE 67-08 M02-75173
BENEFICIATION OF A POLISH CARNALLITE--DEVELOPMENT OF A FLOWSHEET 67-08 M02-76060
STUDY OF THE ADSORPTION OF OLEIC ACID ON SOME OXIDIZED LEAD MINERALS 67-09 M02-76717
COMMERCIAL INVESTIGATIONS OF THE CONCENTRATING CAPACITY OF COPPER ORE FROM THE ELATSITE DEPOSITS AT ENTROPOLOSKO 67-09 M02-76718
ELECTROKINETIC ANALYSIS OF THE INTERACTION OF FLOTATION REAGENTS WITH SOME OXIDIZED LEAD MINERALS 67-09 M02-76819
SEPARATING A BULK TITANIUM-ZIRCONIUM CONCENTRATE BY FLOTATION 67-09 M02-76863
REACTION PATTERNS BETWEEN SODIUM FLUORIDE AND OLEIC ACID IN THE SEPARATION OF TITANIUM AND ZIRCONIUM MINERALS BY FLOTATION 67-09 M02-76874
SPECIAL TECHNOLOGICAL FEATURES AND POSSIBILITIES OF ENRICHING LEAN COPPER ORES FROM THE ELATSITE DEPOSIT, BOTEVGRAD REGION 67-09 M02-76876
BENEFICIATION OF OSOGOVO DEPOSIT ORES 67-09 M02-76877
COPPER SULFITE METHOD OF SEPARATING BULK MOLYBDENITE-CONTAINING CONCENTRATES 67-09 M02-76884
THE EFFECT OF THE SORPTION OF LAURYLAMINE ON THE FLOTABILITY OF PYRITE 67-09 M02-77109
LABORATORY AND PILOT PLANT DEVELOPMENT OF FLOTATION PROCEDURES FOR FINE-GRAINED HEMATITIC ORES OF MARQUETTE RANGE, MICHIGAN 67-09 M02-77534
DRESSABILITY OF POLYMETALLIC ORES FROM THE SEVERNI RODOPI DEPOSITS, SMOLYANSK REGION 67-09 M02-77750
SYSTEMS FOR ENRICHING POLYMETALLIC ORES WITH HIGH PYRITES CONTENTS 67-09 M02-77762
THE TREATMENT OF REFRACTORY COPPER ORES BY THE SEGREGATION PROCESS 67-10 M02-78313
RESULTS OF THE INDUSTRIAL TESTING OF WASTE ACIDS FOR FLOTATION OF TITANIUM-ZIRCONIUM SANDS 67-10 M02-79032
THE FLOTATION OF MONAZITE USING ANIONIC CARBOXYLATE COLLECTORS 67-10 M02-79055
FLOTATION TRIALS ON MAGNETIC SEPARATION TAILINGS AT THE OLENEGORSK PLANT 67-10 M02-79843
SOME FEATURES OF OLENEGORSK FERRUGINOUS QUARTZITE FLOTATION 67-10 M02-79844
TECHNOLOGY FOR A CONCENTRATE CONTAINING 67-68 PER CENT IRON 67-10 M02-79845
DRESSING OXIDIZED FERRUGINOUS QUARTZITES AT CENTRAL DRESSING PLANTS 67-10 M02-80071
SELECTIVE FLOTATION OF IRON FROM A COMPLEX SOLUTION 67-10 M02-80072
IMPROVED SCHEMES AND CONDITIONS OF COPPER-MOLYBDENUM ORE FLOTATION 67-10 M02-80073
EFFECT OF PARAMAGNETIC CENTERS OF CELESTINE ON FLOTATION PROPERTIES 67-11 M02-81209
MAGNETIC BENEFICIATION OF PYROCHLORE-ZIRCONIUM FLOTATION CONCENTRATES 67-11 M02-81229
SELECTING OPTIMUM MAGNETITE FLOTATION PROCEDURES 67-11 M02-81436
ECONOMICS OF FLOTATION TO OBTAIN HIGH-IRON CONCENTRATES FROM KOLA PENINSULA ORE 67-11 M02-81437
HOW THE CRYSTAL STRUCTURE OF ANHYDROUS IRON OXIDES AFFECTS THEIR FLOTABILITY 67-11 M02-81456
FLOTATION OF SULFIDES FROM CRUDE FINE-GRAINED TIN CONCENTRATES 67-11 M02-81504
FLOTATION OF COMPOSITE GRAPHITE NICKEL ORES 67-11 M02-81505
EFFECT OF THE ORDER OF ADDING REAGENTS ON THE FLOTATION PROPERTIES OF CERTAIN MINERALS 67-11 M02-81507
INDUSTRIAL TRIALS OF THE FLOTATION OF COPPER-PYRITE ORES WITH HUMANOL COLLECTOR 67-11 M02-81615
POSSIBILITIES OF INCREASING GOLD AND SILVER EXTRACTION IN THE BENEFICIATION OF OXIDIZED LEAD ORES FROM THE FIFTH LODE OF THE MADZHAROVO DEPOSIT 67-11 M02-81616
INFLUENCE OF OXIDATION ON THE FLOTATION OF COMPLEX CU-ZN IRON SULPHIDE ORES 67-12 M02-81732
UPGRADING CRUDE TIN-TUNGSTEN CONCENTRATES 67-12 M02-81894
FLOTABILITY STUDY OF RUTILE-GARNET ORES FROM THE SHUBINSK DEPOSIT 67-12 M02-82490
NEW ECONOMIC CONSIDERATIONS APPLYING TO BENEFICIATION FLOTATION OF ORES 67-12 M02-82609
IMPROVING COPPER RECOVERY BY SAND SLIME SEPARATION 67-12 M02-82914
FLOTATION EXPERIMENTS WITH EARTHY IRON ORES 67-12 M02-82918
SEPARATION OF LEAD-COPPER CONCENTRATES WITH SOLUBLE MANGANESE COMPOUNDS 67-12 M02-83316
ROLE OF REDOX REACTIONS DURING THE FLOTATION OF SULFIDE MINERALS 67-12 M02-83366
EFFECT OF THE COMPOSITION OF SOME NONSULFIDE MINERALS ON THE MECHANISM OF INTERACTION WITH OLEIC ACID 67-12 M02-83367
THE EFFECT OF OXIDATION ON THE FLOTATION OF ANTIMONITE AND CINNABAR 67-12 M02-83368
POSSIBILITIES OF EXTRACTING LEAD FROM KREMIKOV ORE BY FLOTATION TECHNIQUES 67-12 M02-83444
EFFECT OF SOLUBLE SALTS ON THE FLOTABILITY OF SOME OXIDIZED LEAD MINERALS DURING XANTHATE FLOTATION 67-12 M02-83445
INVESTIGATION OF THE POSSIBILITY OF REDUCING THE HARMFUL EFFECT OF SOLUBLE SALTS ON THE FLOTATION OF OXIDIZED LEAD MINERALS BY USING HYDROXYLIC COLLECTORS 67-12 M02-83446
STUDY OF THE EFFECT OF THE LENGTH OF THE HYDROCARBON CHAIN OF XANTHATES DURING FLOTATION OF OXIDIZED LEAD MINERALS 67-12 M02-83447
INVESTIGATION OF THE CONCENTRATING CAPACITY OF GOLD-BEARING ORE FROM THE DOLNA KAMENITSA DEPOSITS 67-12 M02-83448
BEHAVIOR OF TELLURIUM DURING FLOTATION OF GOLD ORES AND SEPARATION OF TELLURIUM CONCENTRATES FROM GOLD ORES 67-12 M02-83474

FLOTATION, AUTOMATION
COMPUTER CONTROL IMPROVES METALLURGY AT TENNESSEE COPPERS FLOTATION PLANT 67-02 M02-59496

FLOTATION, RADIATION EFFECTS
ACTION OF GAMMA-RADIATION ON THE FLOTATION PROPERTIES OF REAGENT-COLLECTORS OF THE ANION TYPE 67-02 M02-61603

FLOTATION, RADIOACTIVE TRACERS
USING MAGNETIC RADIOSPECTROSCOPY TO INVESTIGATE SOME PROBLEMS IN THE FLOTATION THEORY 67-02 M02-62040

FLOTATION CONDITIONING
HOW SIZE OF MINERALS AFFECTS THEIR FLOTABILITY 67-09 M02-76895

FLOTATION MACHINES
COLUMN FLOTATION DEVELOPMENT USING AN 18-IN. PILOT UNIT 67-06 M03-70973

FLOTATION REAGENTS
INVESTIGATION OF THE FLOTATION BEHAVIOR OF TUNGSTEN MINERALS WITH SPECIAL CONSIDERATION OF GRAIN SIZE 67-02 M02-62249
HOW EMULSIONS OF APOLAR REAGENTS ACT IN THE FLOTATION OF IRON ORES 67-04 M02-66652
MECHANISM OF SULFITE COMPLEXES OF IRON IN FLOTATION 67-04 M02-66653
THE BEHAVIOR OF VERY FINE-GRAINED, COMPLEX SULFIDE ORES DURING FLOTATION 67-05 M03-69118
PYROGALLOL AS A REGULATOR IN NON-SULFIDE MINERAL FLOTATION 67-08 M02-75169
STUDY OF FORMS OF OLEIC ACID ATTACHMENT AND GRAIN AGGREGATION IN OXIDIZED MINERALS BY INFRA-RED SPECTROSCOPY 67-08 M02-75174

FLOTATION REAGENTS, SORPTION
THE ADSORPTION OF DEHYDROABIETYLAMINE ACETATE ON SYNTHETIC RUTILE 67-10 M02-79950

FLOW
SEE COLD FLOW
FLUID FLOW
GAS FLOW
LIQUID FLOW
MASS FLOW
PLASTIC FLOW
TURBULENT FLOW
VISCOUS FLOW

FLOW TURNING

FLOW TURNING
SPINNING, SHEAR FORMING AND FLOW FORMING 67-06 M07-71900
DEVELOPMENT OF A DYNAMOMETER FOR FLOW-TURNING OPERATIONS 67-06 M08-71803
DRIFT-BOLT AND FLOW-TURNING. PT. 2 67-12 M08-82060
FLUE DUST
RHENIUM--ITS EXTRACTION AND USES 67-05 M03-68430
THE EXTRACTION OF RARE METALS FROM FLUE DUSTS 67-10 M03-79075
EXPERIENCE IN COLLECTION OF IRON OXIDE FUME FROM IRON AND STEELMAKING PROCESSES BY ELECTROFILTERS IN FOUNDRIES 67-11 M04-80534
FLUE DUST, BRIQUETTING
UTILIZATION OF DUST FROM STEELMAKING PROCESS AS BRIQUETS 67-11 M04-80502
FLUE DUST, REFINING
EXTRACTION OF GERMANIUM AND GALLIUM FROM COAL FLY ASH AND PHOSPHORUS FURNACE FLUE DUST 67-07 M03-73617
FLUE GASES, CHEMICAL ANALYSIS
METALLURGICAL APPLICATIONS OF LUFT ANALYZERS 67-06 M19-71707
A GAGE FOR AUTOMATIC CONTROL OF EXCESS AIR COEFFICIENT IN OPENHEARTH FURNACES 67-12 M04-81862
FLUE GASES, CORROSION ENVIRONMENTS
PRACTICAL APPLICATIONS OF CORROSION-TESTING APPARATUS UNDER HEAT TRANSFER CONDITIONS 67-11 M18-81550
FLUID BED COATING
SEE FLUIDIZED BED COATING
FLUID BED REDUCTION
SEE FLUIDIZED BED REDUCTION
FLUID BED ROASTING
SEE FLUIDIZED BED ROASTING
FLUID DRIVES
SEE HYDRAULIC DRIVES
FLUID DYNAMICS
SEE ALSO GAS DYNAMICS
HOW FLUID VELOCITY AFFECTS CORROSION 67-08 M18-74876
FLUID FLOW
SEE ALSO GAS FLOW
LIQUID FLOW
TURBULENT FLOW
VISCOUS FLOW
PULSATION OF RATES AND SHOWERING IN CENTRIFUGAL CASTING 67-02 M06-59180
MECHANISM OF FLOW AND METHOD OF OXIDATION IN AN OXYGEN CONVERTER 67-06 M04-70114
THE FILL OF NONPREHEATED MOLDS FOR PRECISION CASTING, USING INVESTMENT PATTERNS 67-06 M06-70115
FUNDAMENTAL STUDY OF METAL FLOW IN STEEL FORGING 67-06 M07-70244
STUDY OF THE FLOW AND DISINTEGRATION OF A METAL STREAM INTO DROPLETS 67-08 M04-74345
VELOCITY FLUCTUATIONS AND RIPPLE FORMATION DURING CENTRIFUGAL CASTING 67-10 M06-78889
FLUID FORM DEEP DRAWING
SEE DEEP DRAWING
HYDROFORMING
FLUID FORM PROCESS
SEE HYDROFORMING
FLUID MECHANICS
SEE FLUID DYNAMICS
GAS DYNAMICS
HYDROMECHANICS
FLUID MOLD CASTING
SEE CENTRIFUGAL CASTING
FLUID PENETRANT TESTING
PROSPECTUS FOR NDT IN THE SATURN AND ADVANCED SPACE FLIGHT PROGRAMS 67-02 M19-60917
THE PRESENT STATUS OF METHODS OF NONDESTRUCTIVE TESTING OF WELDED JOINTS 67-02 M19-61265
ELECTRON BEAM BUTT WELDING OF 5254 ALUMINUM ALLOY PRESSURE VESSEL 67-04 M11-67626
FORGING METALLURGY--STEEL. PT. 3. MODERN INSPECTION AND TESTING METHODS 67-04 M19-66170
THE PRESENT SITUATION IN THE NON-DESTRUCTIVE TESTING OF WELDS 67-05 M19-68265
RECOMMENDED PRACTICE FOR THE APPLICATION OF PENETRANT TESTING 67-05 M19-68423
RADIOGRAPHIC CONTROL OF WELDMENTS 67-05 M19-69124
A BALANCED LOOK AT WELD INSPECTION 67-06 M19-70456
MECHANIZED FLAW DETECTION--CHECKS VITAL CAR COMPONENTS 67-06 M19-71203
NONDESTRUCTIVE TESTING OF SPACE VEHICLE LIQUID PROPELLANT ROCKET ENGINES 67-06 M19-72094
X-RAY AND FLUORESCENT PENETRANT INSPECTION FOR DIE-CAST CAR COMPONENT 67-07 M19-72811
NONDESTRUCTIVE TESTING OF BERYLLIUM 67-07 M19-73765
ECONOMICS OF NONDESTRUCTIVE TESTING 67-08 M19-75556
NDT--THE KEY TO SUBMARINE WELD INTEGRITY 67-09 M19-77912
NON-DESTRUCTIVE TESTING FOR INVESTMENT CASTINGS 67-09 M19-78279
METALLURGICAL IMPLICATIONS OF MODERN INSPECTION TECHNIQUES 67-10 M19-79306
FLUID TIGHTNESS, TEMPERATURE EFFECTS
TUNGSTEN-CARBIDE SEAL HANDLES RANGE FROM MINUS 423 TO PLUS 800 F 67-07 M20-73616
FLUIDITY
SEE VISCOSITY
FLUIDIZATION
SEE FLUIDIZING
FLUIDIZED BED COATING
ORGANIC COATINGS FOR STEEL SHEETS--CONTINUOUS PAINTING LINE 67-01 M12-58489
SUCCESSFUL FRENCH PROCESS FOR FLUIDIZED BED COATING 67-02 M12-60926
CARBON-COATED CARBIDE PARTICLES FOR NUCLEAR FUEL ELEMENTS 67-02 M16-60713
PLASTIC COATING OF WIREWORK 67-04 M12-66636
METALLIZING. PT. 6, 7 AND 8. PLASTIC COATINGS, METAL COATING APPLICATIONS, PERSONNEL AND HYGIENE 67-04 M12-66657
DEVELOPMENTS IN ELECTROSTATIC SPRAY PAINTING AND FLUIDIZED BED COATING 67-05 M12-68825
INSTITUTE OF METAL FINISHING TRANSACTIONS 67-05 M12-68833
REFRACTORY METALS PROTECTION 67-06 M12-71318
FLUIDIZING PRACTICE IN AMERICA 67-07 M12-74029
FLUIDIZED BED INSULATES BUS BARS 67-08 M12-75532
COATING WITH PLASTIC POWDERS. PT. 1. IMPROVED PLASTIC COATING TECHNIQUES 67-10 M12-78704
FLUIDIZED BED EPOXY COAT PROTECTS SONAR 67-12 M12-82382
FLUIDIZED BED FURNACES
SEE ALSO FLUIDIZED BED ROASTERS
RAPID GRAPHITIZING NORMALIZATION OF CASTINGS OF HIGH-STRENGTH CAST IRON IN A FLUID BED 67-01 M10-57319
HEIGHT OF ACTIVE HEAT EXCHANGE ZONE IN FLUIDIZED BED 67-02 M02-60956
TWO-STAGE COMBUSTION OF GAS IN A FLUID BED 67-03 M10-65780
THERMAL AND MATERIALS BALANCES FOR A FLUIDIZED BED FURNACE DEWATERING CARNALLITE 67-06 M02-71352
HIGH-SPEED GRAPHITIZATION NORMALIZING OF HIGH-DUTY IRON CASTINGS IN A FLUIDIZED BED 67-07 M10-73041
PATENTING OF STEEL STRIP IN FLUIDIZED BED AFTER ROLLING 67-09 M10-77370
SOME POSSIBLE WAYS OF IMPROVING THE QUALITY, RELIABILITY AND LIFE OF MACHINE COMPONENTS BY THEIR FLUIDIZED BED HEAT TREATMENT 67-10 M10-78369
STUDIES ON THE MECHANISM AND KINETICS OF THE OXIDATION OF COPPER SULFIDE. PT. 2. OXIDATION OF COPPER SULFIDE MIXED WITH ALUMINA IN A FLUIDIZED BED 67-12 M02-82943
FLUIDIZED BED FURNACES, DESIGN
OBTAINING CONTROLLED ATMOSPHERES IN FLUID BED HEATING FURNACES 67-02 M10-60854
OBTAINING A CONTROLLED ATMOSPHERE IN A FURNACE WITH A BOILING LAYER 67-08 M10-76112
FLUIDIZED BED FURNACES, STRUCTURAL MATERIALS
PRODUCING POROUS PARTS OF REFRACTORY OXIDES AND ANALYSIS OF THEIR GAS PERMEABILITY 67-08 M09-75430
FLUIDIZED BED REDUCTION
BEHAVIOR OF SELENIUM DURING ROASTING GAISK CONCENTRATES 67-02 M02-59538
STUDY OF THE DRY CHEMICAL TREATMENT OF URANIUM-ZIRCONIUM FUELS 67-02 M03-59420
GRANULATION AND FLUIDIZER BED ROASTING OF WAELZ OXIDES UNDER SEMI-INDUSTRIAL CONDITIONS 67-02 M03-59543
METHODS OF INCREASING THE DEGREE OF DISTILLATION OF

ZINC BY OXYGEN SUSPENSION MELTING OF COPPER-ZINC CONCENTRATES 67-02 M03-60081
THE DYNAMICS OF FLUIDIZATION OF IRON AND ITS ORES 67-03 M02-65803
FURTHER DEVELOPMENTS IN THE CHEMICAL TREATMENT OF LOW-GRADE IRON ORES AT APPLEBY-FRODINGHAM 67-04 M02-67019
REDUCING ROAST FOR MANGANESE ORES USING INDUSTRIAL GASES 67-05 M03-68407
REDUCTION OF IRON IN ORE AND ORE-CARBON GRANULES IN FLUIDIZED BED FURNACE IN STREAM OF NATURAL GAS 67-06 M04-69965
FOUNDATIONS OF IRON AND STEEL METALLURGY 67-06 M04-70699
PHYSICO-CHEMICAL PHENOMENA IN THE JET DURING SUSPENSION OXYGEN SMELTING OF COPPER SULFIDE CONCENTRATES 67-07 M03-72780
CHANGE IN VISCOSITY THROUGHOUT THE DEPTH OF A FLUID BED OF IRON-ORE CONCENTRATES 67-08 M03-75863
REDUCTION KINETICS OF ZINC OXIDE WHEN REDUCED WITH CARBON OXIDE 67-09 M03-77112
PRODUCTION OF SINTERABLE, SLIGHTLY ENRICHED URANIUM DIOXIDE IN FLUIDIZED-BED FURNACES 67-09 M09-77202
DESULFURIZATION KINETICS OF NICKEL-NICKEL SULFIDE MIXTURE IN THE FLUIDIZED BED 67-10 M03-79129
A REVIEW OF DIRECT REDUCTION PROCESSES 67-12 M04-83077

FLUIDIZED BED REDUCTION, AUTOMATION
CONTINUOUS IRON PROCESS NEARS PILOT PLANT 67-12. M04-82991

FLUIDIZED BED ROASTERS
SELECTIVE CHLORINATION OF IRON ORES CONTAINING CHROMIUM AND NICKEL BY FLUIDIZED ROASTER 67-04 M02-67553
INVESTIGATION OF THE ROASTING OF ALUNITE ORE IN THE CONDITIONS OF ROTARY FLUID BED 67-10 M03-79132

FLUIDIZED BED ROASTING
INTENSIFIED ROASTING OF NICKEL CONCENTRATE IN A FLUIDIZED BED 67-02 M02-61605
STUDY OF THE FEASIBILITY OF ENLARGING THE COPPER CINDER AND DECREASING THE DUST LOSSES IN FLUIDIZED BED ROASTING 67-02 M02-62043
THE DYNAMICS OF FLUIDIZATION OF IRON AND ITS ORES 67-03 M02-65803
COMBUSTION IN FLUIDIZED BEDS 67-04 M02-67225
SEPARATING FLUORINE TO THE GAS PHASE DURING OXYGEN-SUSPENSION SMELTING OF COPPER CONCENTRATES 67-04 M02-67520
RECOVERING NON-FERROUS AND RARE METALS FROM LEAD CAKES, USING THE SULFATIZATION METHOD 67-04 M03-67522
DRYING ZINC CAKES FROM PULP IN A FLUIDIZED BED WITH SIMULTANEOUS GRANULATION OF THE PRODUCT 67-06 M02-71348
A MATHEMATICAL MODELING STUDY OF THE KINETICS OF SELECTIVE OXIDATION ANNEALING OF FERRONICKEL IN A FLUID BED 67-06 M02-72105
ON THE EFFECT OF THE COMPOSITION OF GAS PHASE ON THE PROCESS OF SULFATIZING ROASTING OF SULFIDE-COBALT CONCENTRATE 67-06 M02-72107
METHOD OF PROCESSING HIGHLY FERRUGINOUS AND HIGHLY SILICIOUS BAUXITES 67-06 M03-70934
FLUIDIZED BED ROASTING OF ZINC CONCENTRATES AT HIGH CONCENTRATION OF SO2 67-06 M03-71303
PILOT HYDROMETALLURGICAL TREATMENT TESTS MADE ON A COPPER-ZINC-PYRITE PRODUCT 67-06 M03-71347
THE KINETICS OF DESULFURIZATION OF NICKEL MATTE IN A FLUIDIZED BED 67-08 M02-75448
METHOD OF ROASTING FINE MATERIALS 67-09 M02-76872
TEST OF A FIBERGLASS BAG FILTER BY USING ROAST GAS OF MO CONCENTRATES IN A FURNACE WITH A FLUIDIZED BED 67-09 M02-76967
THE TREATMENT OF REFRACTORY COPPER ORES BY THE SEGREGATION PROCESS 67-10 M02-78313
METHOD OF COOLING CALCINATED ALUMINA IN A FLUIDIZED BED 67-10 M02-79848
TECHNIQUES OF SINTERING ELECTROLYTIC COPPER SLIMES 67-10 M03-80048
FLUIDIZED BED ROASTING OF GOLD-ARSENIC CONCENTRATES WITH THE PURPOSE OF DEARSENIZATION 67-11 M03-80752
INVESTIGATION OF THE FLUIDIZED BED SULFATING ROASTING OF PYRITE-COBALT CONCENTRATES 67-12 M02-83019
PATENTING WIRE IN A FLUIDISED BED 67-12 M10-82152

FLUIDIZING
THE DYNAMICS OF FLUIDIZATION OF IRON AND ITS ORES 67-03 M02-65803

FLUIDS
SEE GASES
LIQUIDS

FLUORESCENCE
SEE ALSO X RAY FLUORESCENCE
THEORETICAL CALCULATION OF FLUORESCENT X-RAY INTENSITIES IN FLUORESCENT X-RAY ANALYSIS 67-08 M19-75807

FLUORESCENT PENETRANTS
A FLUORESCENT FERROMAGNETIC TESTING AGENT FOR THE MAGNETIC PARTICLE METHOD OF CRACK DETECTION 67-06 M19-70052
X-RAY AND FLUORESCENT PENETRANT INSPECTION FOR DIE-CAST CAR COMPONENT 67-07 M19-72811

FLUORIDATION, PRESSURE EFFECTS
BEHAVIOR OF COPPER IN A GASEOUS FLUORIDATING MEDIUM 67-12 M14-83231

FLUORIDES
SEE ALSO LITHIUM FLUORIDE

FLUORIDES, BINARY SYSTEMS
THERMOCHEMICAL INVESTIGATIONS ON THE SYSTEM NAF-ALF3 67-07 M15-73879

FLUORIDES, COATINGS
RETARDATION OF THE OXIDATION RATES OF NIOBIUM, TANTALUM AND TUNGSTEN BY FLUORIDE COATING 67-04 M18-66164

FLUORIDES, CORROSION ENVIRONMENTS
COMPATIBILITY OF ATLAS MATERIALS WITH FLUORINE PROPELLANTS 67-10 M18-78494
INFLUENCE OF INCLUSIONS ON THE CORROSION OF METALS BY GASEOUS F COMPOUNDS 67-11 M18-80146

FLUORIDES, CRYSTAL LATTICES
DISSOLUTION SPIRALS ON GAMMA-IRRADIATED LITHIUM FLUORIDE 67-09 M13-77439

FLUORIDES, MAGNETIC PROPERTIES
SUBLATTICE MAGNETIZATION IN FEF3 NEAR THE NEEL POINT 67-10 M15-79364
MAGNETIC SUSCEPTIBILITY OF AGF2 67-12 M15-82537

FLUORIDES, MASS SPECTROMETERS
MASS SPECTROMETRIC STUDIES AT HIGH TEMPERATURES. PT. 17. SUBLIMATION AND VAPOR PRESSURES OF DY --III--, HO --III-- AND ER --III-- FLUORIDES 67-08 M14-75294

FLUORIDES, OPTICAL PROPERTIES
FAR-INFRARED OPTICAL PROPERTIES OF CAF2, SRF2, BAF2 AND CDF2 67-09 M15-77178
THERMOLUMINESCENCE AND COLOR CENTERS IN LIF 67-09 M16-77438
ELECTRONIC SPECTRUM OF CRYSTALLINE LITHIUM FLUORIDE 67-11 M15-81680

FLUORIDES, PHASE TRANSFORMATIONS
THE RBF-CDF2 SYSTEM 67-12 M13-83160

FLUORIDES, REACTIONS /CHEMICAL/
FLUORIDE IN CHROMIUM PLATING BATHS.. DETERMINATION OF ACTIVITY AND CONCENTRATION 67-09 M12-76995
REACTION RATE OF SOLID YTTRIUM METAL WITH MOLTEN LITHIUM FLUORIDE 67-10 M14-79688

FLUORIDES, SINGLE CRYSTALS
INFLUENCE OF OH-IONS ON INFRARED ABSORPTION AND IONIC CONDUCTIVITY IN LITHIUM FLUORIDE CRYSTALS 67-11 M16-81670

FLUORIDES, SYSTEMS /METALLURGICAL/
MEASUREMENTS OF VAPOR PRESSURE FOR NAF3-ALF3 AND 67-07 M15-73878

FLUORIDES, THERMAL PROPERTIES
MASS SPECTROMETRIC STUDIES AT HIGH TEMPERATURES. PT. 16. SUBLIMATION PRESSURES FOR TIF3 AND THE STABILITIES OF TIF2 --G-- AND TIF --G-- 67-11 M15-80699

FLUORINATION
KINETIC STUDIES OF FLUORINATION OF URANIUM CARBIDES BY FLUORINE. PT. 2. FLUORINATION OF URANIUM DICARBIDE 67-09 M14-78052

FLUORINE, CORROSION ENVIRONMENTS
COMPATIBILITY OF ATLAS MATERIALS WITH FLUORINE PROPELLANTS 67-09 M18-77564
INFLUENCE OF FLUORINE IONS ON CORROSION OF OKH18N10T STEEL IN WATER AND HIGH-PRESSURE STEAM 67-10 M18-78538

FLUORINE, REACTIONS /CHEMICAL/
THE KINETICS AND MECHANISM OF FLUORINATION OF COPPER OXIDE. PT. 2. THE REACTION OF FLUORINE WITH COPPER --I-- OXIDE 67-09 M14-76599

FLUORINE
BEHAVIOR OF COPPER IN A GASEOUS FLUORIDATING MEDIUM 67-12 M14-83231
FLUORINE, RECOVERING
SEPARATING FLUORINE TO THE GAS PHASE DURING OXYGEN-SUSPENSION SMELTING OF COPPER CONCENTRATES 67-04 M02-67520
FLUORITE, BENEFICIATION
STUDY OF THE INTERACTION OF CATION COLLECTORS WITH BE2SIO4 67-03 M02-65572
EFFECT OF CONDITIONS OF TREATING FLUORITE WITH OLEIC ACID ON THE FORM OF COLLECTOR FIXING 67-03 M02-65574
EFFECT OF THE ORDER OF ADDING REAGENTS ON THE FLOTATION PROPERTIES OF CERTAIN MINERALS 67-11 M02-81507
FLUORITE, OPTICAL PROPERTIES
SUITABILITY OF MAGNESIUM FLUORIDE, CRYOLITE AND FLUORITE AS ANTIREFLECTION MATERIALS FOR INFRARED RADIATIONS 67-08 M15-75566
FLUOROSCOPES
INVESTIGATION OF QUANTITATIVE ANALYTICAL METHOD WITH X-RAY FLUORESCENCE. --REPORT 5--. CORRECTION METHOD OF THE MATRIX EFFECT ON THE DETERMINATION OF COPPER AND ZINC IN BRASSES 67-01 M19-57451
FLUOROSCOPY
THE PRINCIPLES AND METHODS OF CORRECTION ON QUANTITATIVE ELECTRON PROBE MICROANALYSIS. PT. 2 67-04 M19-67725
THE APPLICATION OF AN X-RAY FLUORESCENT TECHNIQUE TO THE MEASUREMENT OF TIN-COATING THICKNESS OF SMALL AREAS 67-06 M19-72019
HIGH-PRESSURE DIE CAST REAR SUSPENSION ARMS 67-07 M06-73089
FLUORSPAR
SEE FLUORITE
FLUOSOLIDS ROASTING
SEE FLUIDIZED BED ROASTING
FLUTING
SEE GROOVING
FLUTTER
SEE VIBRATION
FLUX
SEE ALSO MAGNETIC FLUX
THE INFLUENCE OF HIGH-PHONON FLUX DENSITIES ON THE X-RAY REFLECTIVITY OF NEARLY IDEAL CDS CRYSTALS 67-08 M16-75253
FLUX CORE WIRE WELDING
METALLURGICAL INFLUENCE OF THE FLUX-CORE WELDING PROCESS BY VARIOUS WELDING FACTORS 67-04 M11-66596
FLUX CORE WIRE FOR OPEN ARC WELDING OF LOW-CARBON AND LOW-ALLOY STEELS 67-06 M11-71649
CORED WELDING WIRE FOR SEMI-AUTOMATIC WELDING OF KH18N10T STAINLESS STEEL 67-06 M11-71650
SPECIFIC HEAT ENERGY OF ARC IN SOME WELDING PROCESSES WITH CONSUMABLE ELECTRODES 67-07 M11-72732
TRIAL SUBMERGED ARC WELDING, USING WELDING FLUX, GRAU L 67-08 M11-75938
FLUX-CORED WLEDING FILLER METAL STRENGTHENS PLATFORM TRAILERS 67-08 M11-76068
SIGMA AND 885 F. EMBRITTLEMENT OF CHROMIUM-NICKEL STAINLESS STEEL WELD METALS 67-09 M11-77950
POWDER FILLED WIRE FOR THE UNSHIELDED ARC WELDING OF MILD AND LOW ALLOY STEELS 67-10 M11-79616
POWDER FILLED WIRE FOR THE SEMI-AUTOMATIC WELDING OF KH18N10T STEEL 67-10 M11-79618
FLUX COREDCO2 GAS SHIELDED WELDING WIRE 67-11 M11-81004
FLUX CORED WIRE --NO GAS-- PROCESS FOR STEEL 67-11 M11-81005
EFFECTIVE HEAT INPUT WHEN WELDING WITH A CONSUMABLE ELECTRODE 67-12 M11-82311
WELDING MACHINE INSTALLATIONS FOR WELDING WITH FLUX-CORED WIRES 67-12 M11-82941
FLUX DENSITY
SEE FLUX
FLUXES
SEE ALSO BRAZING FLUXES
SOLDERING FLUXES
WELDING FLUXES
USE OF FLUX ADDITIONS ON LOW-CARBON ALUMINUM-KILLED STEEL 67-03 M04-65540
INFLUENCE OF FLUXES UPON THE MINERAL CONSTITUENTS AND PHYSICAL PROPERTIES OF IRON ORE SINTER 67-04 M02-66297
ELECTROSLAG REMELTING OF CU 67-05 M03-68233
THE COMPOSITION AND PROPERTIES OF MOLTEN GALVANIZING FLUXES 67-09 M12-77646
FLUXES, DENSITY
DENSITY OF LIQUID FLUXES FOR ELECTROSLAG REMELTING AND HEATING 67-06 M15-71848
FLUXES, MELTING
ELECTROSLAG REMELTING OF EI481 CR-MN-NI HEAT RESISTANT STEEL 67-05 M04-69685
FLUXES, PHYSICAL PROPERTIES
STUDY OF THE PHYSICO-CHEMICAL PROPERTIES OF SOME COMMERCIAL FLUXES FOR MAGNESIUM SMELTING 67-06 M03-72109
THE DENSITY OF FUSED FLUXES USED FOR ELECTROSLAG REMELTING AND THE ELECTROSLAG HEATING OF INGOT FEEDER HEADS 67-11 M15-80880
FLUXES, SOLDERING
DEVELOPING NEW FLUXES FOR SOFT SOLDERING AND THE RESULTANT DIFFICULTIES 67-11 M11-81027
FLUXING
BLAST FURNACE MELTING AND PRODUCTION OF FLUXED SINTER, CONTAINING OVER 61 PER CENT IRON 67-02 M04-61861
MANUFACTURING OF FLUXED PELLETS 67-05 M02-68542
CERTAIN FACTORS AFFECTING THE QUALITY OF A SELF-FLUXED SINTER 67-05 M02-69253
PRODUCTION OF FLUXED PELLETS 67-07 M02-72453
PRELIMINARY RETENTION OF LIME IN A SINTER BATCH CONCENTRATE 67-08 M02-74885
HOW BATCH MAKE-UP AFFECTS FUEL USAGE IN SINTERING 67-08 M02-74886
MELTING, REMELTING, DEGASSING, FLUXING AND HANDLING 67-08 M03-74838
OPERATION OF AN EXPERIMENTAL FURNACE WITH PELLET AND SINTER BURDENS 67-09 M02-76731
UPGRADING SINTER 67-10 M02-79827
RUNNING-IN RESULTS FROM THE KTSGOK PELLETIZING PLANT 67-11 M02-81312
MINERAL COMPOSITION OF FLUXED SINTERS 67-12 M02-83416
FLUXMETERS /MAGNETIC/
SEE MAGNETIC MEASUREMENTS
MEASURING INSTRUMENTS
FLY ASH
ANALYTICAL PROCEDURES FOR A VANADIUM RECOVERY PROCESS 67-03 M19-65122
FLY ASH, CORROSION ENVIRONMENTS
EFFECT OF FLY ASH ON STEEL REINFORCEMENT 67-03 M18-65689
FLY ASH, REFINING
EXTRACTION OF GERMANIUM AND GALLIUM FROM COAL FLY ASH AND PHOSPHORUS FURNACE FLUE DUST 67-07 M03-73617
FOAM
SEE FOAMS
FOAMING
THE INFLUENCE AND ACTION OF SLAG FOAMING IN THE BLOWING OF LOW-PHOSPHORUS PIG IRON IN THE OXYGEN CONVERTER 67-08 M04-76286
COMPOSITION AND PROPERTIES OF STONE FROM ELECTRIC FURNACE SLAGS FROM THE COPPER AND NICKEL INDUSTRY 67-09 M04-76579
DEVICE FOR FOAMING LIQUID B. F. AND FUEL SLAG 67-11 M04-81603
CALCULATING THE END TEMPERATURE OF SWELLING 67-11 M14-81511
THE EFFECT OF FERROUS AND MANGANOUS OXIDES ON THE CRYSTALLIZATION PROPERTIES OF BLAST-FURNACE SLAGS IN CONNECTION WITH THEIR SWELLING 67-11 M14-81513
FOAMING AGENTS
FLOTATION OF MOLYBDENUM ORE BY COUNTERFLOW 67-02 M02-61275
FOAMS, POWDER METALLURGY
PREPARATION OF HIGH-POROSITY MATERIALS FROM REFRACTORY COMPOUNDS 67-02 M09-62189
FOCUSSONS
SEE DISPLACEMENTS /LATTICE/
FOIL BRAZING
SEE BRAZING
METAL FOILS
FOIL BUTT SEAM WELDING
SEE FOIL SEAM WELDING
FOIL SEAM WELDING
WELDING OF APPARATUS FROM TI-CLAD BIMETALS 67-04 M11-66347
DIFFUSION WELDING TITANIUM ALLOYS WITH COPPER ALLOYS 67-08 M11-75419
THE DIFFUSION WELDING OF TITANIUM ALLOYS TO COPPER ALLOYS 67-12 M11-82040

FOILS /STRUCTURAL SHAPES/
SEE ALSO HYDROFOILS
FOILS /STRUCTURAL SHAPES/, METAL WORKING
COLD STAMPING OF THIN SHEET STEEL AND NONFERROUS METALS 67-02 M08-60679
FOILS /UNSUPPORTED METAL FILMS/
SEE METAL FOILS
FOLDING
TOOLING AND PRODUCTION ON HORIZONTAL MULTISLIDE MACHINES 67-10 M08-78599
FORBIDDEN ENERGY BAND
SEE ENERGY GAP
FORBIDDEN ZONE
SEE ENERGY GAP
FORCE
SEE COERCIVE FORCE
CYCLIC LOADS
LOADS /FORCES/
TOOL FORCES
TORQUE
FOREHEARTHS
SEE HOLDING FURNACES
FORGE WELDING
SEE ROLL WELDING
FORGEABILITY
EFFECT OF HEATING TEMPERATURE ON PLASTICITY, STRUCTURE AND MECHANICAL PROPERTIES OF KH17N2 STEEL 67-01 M17-57248
CONTRIBUTION TO THE STUDY OF THE FORGEABILITY OF STAINLESS AND REFRACTORY STEELS IN THE AS-CAST CONDITION 67-02 M17-62063
EVALUATION OF THE BEHAVIOR OF STEELS AND ALLOYS DURING HOT DEFORMATION WITH THE AID OF HOT TORSION SPECIMENS 67-04 M17-67202
THE COMPUTATION OF VIBRATIONS, FORCES AND COMPRESSIONS DURING DROP FORGING TESTS 67-08 M17-75570
FORGING METALLURGY--TITANIUM. PT. 1 67-09 M17-78168
APPLICATIONS AND PROPERTIES OF 15-5 PH 67-10 M01-79752
FORGING STAINLESS AND HIGH TEMPERATURE GRADES 67-10 M07-79757
FORGING TECHNOLOGY EXPANDS TO MEET MARKET NEEDS 67-11 M07-80300
APPLICATION OF FORGEABILITY TESTS TO LAMINABILITY 67-11 M07-80391
HIGH-TEMPERATURE PROPERTIES OF AN IMPROVED 1 PER CENT CR STEEL 67-11 M17-80260
SUPERALLOY FORGINGS HOLD UP AS TEMPERATURES SOAR 67-12 M07-83174
FORGEABILITY, ALLOYING EFFECTS
EFFECTS OF ALLOYING ELEMENTS AND IMPURITIES ON PROPERTIES 67-08 M01-74807
FORGEABILITY, COMPOSITION EFFECTS
RELATIONSHIP BETWEEN FERRITE CONTENT AND FORGEABILITY IN 18-8 STAINLESS STEELS 67-10 M07-78676
FORGING
SEE ALSO CLOSED DIE FORGING
DIE FORGING
DROP FORGING
HAMMER FORGING
IMPACT FORGING
OPEN DIE FORGING
PRESS FORGING
RADIAL FORGING
ROLL FORGING
STEP FORGING
VIBROFORGING
WALL PRESSURE WHEN FORGING AND FILLING OUT CORNERS IN CLOSED DIES 67-01 M07-57241
FORGING FACTORS--ELEMENTS OF DEFORMATION AND FRACTURE. PT. 2 67-01 M07-57952
HERF UNDER THE MICROSCOPE 67-01 M07-57968
ROTARY FORGING RAILWAY AXLES SAVES TIME AND MATERIAL 67-01 M07-58784
FORGING METALLURGY--STEEL. PT. 1 67-02 M07-59034
FORGING METALLURGY--STEEL. PT. 2. WHICH ALLOY 67-02 M07-61093
HIGH PRESSURE FORMING 67-02 M08-59149
HIGH SPEED-HIGH ENERGY RATE FORGING MACHINE. PT. 2 67-02 M08-60721
COMMERCIAL PRODUCTION OF TWIST DRILLS BY THE SUPERFORGE PROCESS 67-02 M08-61564
THE MICROSTRUCTURE OF HOT FORGED ALUMINUM 67-02 M14-59126
FORGING TODAY 67-03 M07-65944
FABRICATION OF FORGED PRESSURE VESSELS 67-03 M08-65686
FORGING AND SOLUTION TREATING ALLOY 718 67-03 M10-65977
NEW BREAKTHROUGHS IN FORGING 67-04 M07-66284
HOT FORGED GEARS TO FINE TOLERANCES 67-04 M07-66889
FITTINGS FORGED ONTO TUBE ENDS 67-04 M07-67769
FORGING METALLURGY--STEEL. PT. 5. COLD FORGING 67-04 M07-68131
HOW WELL CAN FORGING HOLD UP UNDER NEW PRESSURES 67-05 M07-68768
THE FORGED PART. ITS INCREASING USE IN MACHINE DESIGN 67-05 M07-69316
COMPLEX NONFERROUS PARTS BY CORED FORGING 67-05 M07-69554
FORGING METALLURGY--STEEL. PT. 4. COLD FORGING 67-05 M07-69555
CIRCULAR ROLLING. MANUFACTURE OF SEAMLESS RING-SHAPED PARTS 67-05 M08-69319
DISTRIBUTION OF DEFORMATION IN DRAWING LARGE FORGINGS 67-05 M17-69436
VALVES AND THEIR MANUFACTURE 67-05 M20-68912
CONTROLLING VARIATIONS IN MECHANICAL PROPERTIES OF HEAT RESISTANT ALLOYS DURING FORGING 67-06 M07-70131
FUNDAMENTAL STUDY OF METAL FLOW IN STEEL FORGING. PT. 1 67-06 M07-71316
A NEW HIGH-VELOCITY METALWORKING MACHINE 67-06 M08-71211
METALWORKING PROCESS DEVELOPMENT 67-07 M07-72748
A CERAMIC-METAL CONBINATION PREHEATER FOR GAS-FIRED FORGING FURNACES 67-07 M07-74111
SCALE-FREE HEATING IN A PROTECTIVE MEDIUM OF GLASS 67-07 M10-73619
DESIGN FACTORS FOR FORGINGS 67-08 M07-74821
IMPROVING THE TENSILE PROPERTIES OF EP543 ALLOY FORGINGS BY EFFICIENT FORGING AND STAMPING 67-08 M07-75480
CHOOSING ALLOY STEEL BARS FOR FORGING 67-08 M07-75496
HOW METAL FLOWS IN A DIE 67-08 M07-75924
AUSFORGING GIVES ADDED STRENGTH TO STEEL 67-08 M08-76180
MILITARY VEHICLES AND EQUIPMENT 67-08 M20-74832
QUALITATIVE ANALYSIS OF FORGINGS OBTAINED FROM AIR AND VACUUM-CAST INGOTS 67-09 M01-78001
INFLUENCE OF FORGING TECHNOLOGY ON QUALITY OF REDUCTOR GEARS 67-09 M07-76408
INFLUENCE OF ELECTROSLAG REMELTING AND HOT WORKING ON THE STABILITY OF DMO 5 DRILLS 67-09 M07-77225
UNALLOYED TUNGSTEN--ARC-CAST MATERIAL 67-09 M07-77326
REHEATING STEEL BY TURNING OVER IN FORGING FURNACES. PT. 1 67-09 M07-78300
EXAMPLES OF HIGH ENERGY RATE FORGING ON A DYNAPAK MACHINE 67-09 M08-77693
THE MANUFACTURE OF LARGE FORGINGS 67-10 M07-78456
AUTO-FORGE--NEW WEAPON FOR FORGERS ARSENAL 67-10 M07-78500
THE IMPORTANCE OF INDUSTRIAL ELECTRIC HEATING TECHNOLOGY IN THE AUTOMATION OF THE FORGING OF MASS-PRODUCED AUTOMOTIVE PARTS 67-10 M07-78641
STUDIES ON THE HOLLOW CYLINDER UPSETTING TEST AND ITS SUITABILITY TO DETERMINING THE RESISTANCE TO DEFORMATION OF THIN SHEETS 67-10 M07-79061
PROGRESS IN THE MANUFACTURE OF LARGE FORGINGS 67-10 M07-79285
RESISTANCE TO DEFORMATION AND DEFORMATION EFFICIENCY IN UPSETTING. PT. 1 67-10 M07-79975
NICKEL- AND COBALT-BASE ALLOYS 67-11 M01-80530
METALWORKING 67-11 M07-80531
DEFORMATION RESISTANCE AND DEFORMATION EFFICIENCY IN UPSETTING 67-11 M07-80844
THE EFFECT OF BETA FORGING ON SEVERAL TITANIUM ALLOYS 67-11 M17-80517
STUDIES ON FORMING TECHNIQUES AT THE FREIBERG ACADAMY 67-12 M07-81962
PIERCE FORGING ENTERS ALUMINUM FORMING LINEUP 67-12 M07-82042
FORGING INDUSTRY STANDARDS. A BUYER SERVICE 67-12 M07-82701
PRESSURE SHAPING OF IRON-ALUMINUM ALLOYS

FORGING
67-12 M07-83329
TYPES OF REFRACTORY ALLOYS AND THE METHODS BY WHICH THEY ARE PRODUCED 67-12 M20-82393
FORGING, AUTOMATIC CONTROL
AUTOMATIC DIE LUBRICATION IN HOT AND COLD FORGING 67-09 M07-78167
FORGING, DESIGN
DESIGN CONSIDERATIONS FOR AEROSPACE FORGINGS 67-09 M07-77184
FORGING, HEAT TRANSFER
INVESTIGATIONS OF THE CONDITIONS OF HEAT TRANSFER FROM BILLET TO DIE 67-02 M07-59405
FORGING DIES
APPLICATION AND BEHAVIOR OF CAST FORGING DIES 67-02 M07-59083
AUTOMATED HOT FORGING INSTALLATION 67-05 M07-68632
HOW WELL CAN FORGING HOLD UP UNDER NEW PRESSURES 67-05 M07-68768
THE FORGING OF BLOCKS FOR FORGING DIES 67-06 M07-71271
INTRODUCING 5KHGSVF STEEL FOR DIES 67-07 M08-73956
HOW METAL FLOWS IN A DIE 67-08 M07-75924
DIE FORGINGS WITH RADIAL APERTURES 67-08 M08-75763
HOT WORK DIE STEELS FOR CLOSED IMPRESSION FORGING. PT. 3. USE AND CARE OF DIE STEELS 67-09 M06-77186
THE HOBBING OF FORGING DIES 67-11 M08-80843
STEELS FOR HOT FORGING TOOLS 67-12 M07-82080
FORGING DIES, CASTING
CAST DIES FOR AUTO FORGINGS 67-01 M06-58725
MAKING CAST INSERTS HAVING DIE IMPRESSIONS FORMED BY PRECISION CASTING 67-05 M06-69187
FORGING DIES, COATING
HARD SURFACING OF HOT STAMPING DIES 67-09 M12-76414
FORGING DIES, MATERIALS
CHOOSING A STEEL FOR A DIE-BLOCK 67-05 M20-69188
FORGING DIES, MECHANICAL PROPERTIES
HOT WORK DIE STEEL FOR CLOSED IMPRESSION FORGING. PT. 2. PHYSICAL PROPERTY REQUIREMENTS OF DIE STEELS 67-08 M07-75492
FACTORS AFFECTING THE SERVICE LIFE OF CAST TOOLING 67-11 M17-81126
FORGING DIES, SURFACE HARDENING
EMPLOYING THE TENIFER TREATMENT IN PRESSURE DIE CASTING EXTRUSION AND FORGING TOOLS 67-08 M10-75761
FORGING DIES, WELDING
INCREASING WEAR OF FORGING PRESS DIES 67-10 M11-78549
FORGING PRESSES
HYDRAULICALLY OPERATED SCREW PRESSES 67-04 M08-67250
HOW WELL CAN FORGING HOLD UP UNDER NEW PRESSURES 67-05 M07-68768
TECHNOLOGY AND EVOLUTION OF METAL FORMING TECHNIQUES 67-05 M07-69891
ELECTRONICALLY CONTROLLED FORGING PRESS 67-10 M07-80091
CONTROL OF INTEGRATED FORGING SHOPS 67-12 M07-81926
FORGING TESTS ON AND DATA FROM MODERN HYDRAULIC AND OIL-POWERED HIGH-SPEED PRESSES 67-12 M07-81927
FORGING PRESSES, WELDING
FRACTURED MACHINERY RESTORED BY CYCLIC WELDING 67-06 M11-72315
FORGINGS
SEE ALSO COLD FORGINGS
DIE FORGINGS
DROP FORGINGS
PRESS FORGINGS
FEASIBILITY OF FLASHLESS DIE FORGING WITHOUT COMPENSATORS ON CRANK PRESSES 67-01 M07-57244
ALUMINUM HAND FORGINGS--HOW THEY DIFFER, HOW THEY ARE MADE, HOW THEY ARE USED 67-01 M07-57929
STUDY OF THE STRESSED STATE IN THE DEFORMATION AREA DURING INGOT FORGING 67-04 M07-67042
NEW SPANISH STEELS IN FORGINGS FOR THE AUTOMOTIVE INDUSTRY 67-04 M07-67427
EFFECT OF THE TAP DEGASSING PROCESS ON THE DEGASSING OF STEEL FOR LARGE FORGINGS. PT. 1. EFFECT OF THE STATE OF DEOXIDATION OF THE BATH ON DEGASSING 67-06 M06-72394
BERYLLIUM POWDER FORGING 67-07 M09-73870
NEW SPANISH STEELS AND COPPER ALLOYS IN FORGINGS FOR THE AUTOMOTIVE INDUSTRY 67-09 M01-77900
COMMERCIAL JETS--THE BIG SWITCH TO PRECISION FORMED PARTS 67-09 M20-77180
FORGINGS, ALLOYING EFFECTS
RESIDUALS IN STEEL FOR FORGINGS 67-06 M19-71822
FORGINGS, CRYSTALLIZATION
RECRYSTALLIZATION DIAGRAM FOR LOW DUCTILITY CR-NI HEAT-RESISTANT STEEL 67-02 M14-61983
FORGINGS, DEFECTS
WELDING OF FLAKE DEFECTS DURING SECONDARY FORGING 67-02 M07-60674
DEFECT-FREE HEAT TREATMENT OF ALLOY STRUCTURAL STEELS 67-02 M10-60845
FORGINGS, EMBRITTLEMENT
THE PROBLEM OF COOLING --ANNEALING-- FORGINGS OF STEELS WHICH ARE SUSCEPTIBLE TO HYDROGEN EMBRITTLEMENT 67-02 M10-61754
FORGINGS, FORMING
HIGH ENERGY RATE FORGING OF TI-6AL-4V ALLOY 67-05 M08-69740
FORGINGS, HEAT TREATMENT
AICHELIN NON-OXIDIZING HEAT TREATING PLANT FOR STEEL FORGINGS AT THE PASSAU GEAR WHEEL FACTORY 67-01 M10-57212
A SOFTENING HEAT TREATMENT FOR LARGE FORGINGS FROM MARTENSITIC-CLASS STEELS 67-02 M10-61875
SOFTENING HEAT TREATMENT OF LARGE MARTENSITIC STEEL FORGINGS 67-04 M10-67694
HEAT TREATING FORGINGS 67-05 M10-69552
THE EFFECT OF PROLONGED ANNEALING ON THE PROPERTIES OF LARGE FORGINGS 67-07 M10-72760
HEAT TREATMENT OF LARGE FORGINGS 67-07 M10-73717
PRACTICAL ISSUES IN HEAT TREATMENT OF LARGE FORGINGS 67-07 M10-74169
METALLURGICAL ASPECTS OF HEAT TREATMENT OF LARGE STEEL FORGINGS 67-07 M10-74170
THE REMOVAL OF HYDROGEN BY ANNEALING WITH INTERMEDIATE TRANSFORMATION 67-08 M10-74353
REMOVAL OF HYDROGEN FROM SMALL FORGINGS 67-08 M10-74354
QUENCHING OF SMALL FORGINGS OF STRUCTURAL STEELS FROM THE FORGING TEMPERATURE 67-08 M10-74979
TREATMENT OF ALLOYED STRUCTURAL STEELS TO PREVENT THE FORMATION OF FLOCCULES 67-08 M10-76103
DECARBURIZING AND SCALING OF TOOL STEEL BILLETS WHEN HEATED IN INDUCTION FURNACES 67-09 M10-76412
QUENCHING AND TEMPERING OF HEAVY CARBON STEEL FORGINGS 67-09 M10-77200
CEMERON COMMISSIONS SCOTTISH FORGING PLANT 67-11 M07-80673
A NEW INTEGRATED FORGING FACILITY IN SCOTLAND 67-11 M07-80674
MANUFACTURE OF ASME SA 336 --CASE 1332-3-- STEEL RING FORGINGS FOR NUCLEAR REACTOR VESSELS 67-11 M20-81179
EFFECT OF HEAT TREATMENT ON THE AMOUNT AND DISTRIBUTION OF HYDROGEN IN LARGE FORGINGS 67-12 M10-81876
FORGINGS, HEATING
STAMPING OF BILLETS HEATED IN MOLTEN GLASS 67-02 M07-60678
RECUPERATORS FOR HIGH-TEMPERATURE FURNACES 67-02 M10-59824
COMMERCIAL TESTING OF AN AUTOMATED FURNACE FOR NONSCALE HEATING OF METAL 67-04 M10-67622
INVESTIGATION OF AN INDUCTION HEATING FURNACE FOR AUTOMATIC FORGING INSTALLATIONS 67-09 M10-77830
FORGINGS, MACHINING
HSS INSERTS TO THE RESCUE 67-05 M08-68308
TOUGH AEROSPACE JOB REQUIRES UNUSUAL EDM APPROACH 67-05 M08-68446
FLEXIBLE LINE MAKES QUALITY PUMP GEARS 67-06 M08-71204
SIZING FORGINGS WITH ECM 67-06 M08-71932
MACHINING OPERATIONS ON ROCKER SHAFT COMPONENTS 67-07 M08-73371
FORGINGS, MATERIALS
A DECADE OF IMPROVEMENTS IN GENERATOR ROTOR FORGINGS 67-06 M17-70725
FORGINGS, MECHANICAL PROPERTIES
STATIC AND DYNAMIC STRENGTH AND HARDNESS CONTROL OF LARGE FORGINGS AND STEEL CASTINGS 67-01 M17-58719

CONTROL OF RESIDUAL STRESSES IN HOLLOW ALUMINUM FORGINGS 67-02 M17-59457
PROPERTIES OF FERROUS FORGINGS 67-02 M17-59629
CONTRIBUTION TO THE STUDY OF THE FORGEABILITY OF STAINLESS AND REFRACTORY STEELS IN THE AS-CAST CONDITION 67-02 M17-62063
THE TRUE DESIGN STRENGTH OF MATERIALS AND JOINTS 67-03 M17-65670
FORGING BERYLLIUM FOR STRUCTURAL APPLICATIONS 67-04 M07-67896
THE PRINCIPAL CAUSES OF THE INCREASING USE OF DROP FORGINGS IN MODERN MACHINE CONSTRUCTION 67-04 M07-68056
CASE HISTORIES OF FAILURES IN TITANIUM AND SUPER-ALLOY FORGINGS 67-04 M17-66689
NEW TITANIUM ALLOYS FOR STRUCTURAL FORGINGS 67-04 M17-67200
APPLICATION OF DIGITAL COMPUTER TO DESIGN AND STRESS ANALYSIS OF HIGH PRESSURE VESSELS 67-04 M17-67213
POSSIBILITY OF USING CASE-HARDENING STEELS CONTAINING TUNGSTEN 67-04 M17-67701
HIGH-STRENGTH FORGED BERYLLIUM FOR STRUCTURAL APPLICATIONS 67-04 M17-67895
BRASS FORGING MAKES SCUBA GEAR FAIL-SAFE 67-04 M20-66168
COMBINED HEAT AND MECHANICAL TREATMENT OF VT14 ALLOY FORGINGS 67-06 M10-71357
EFFECT OF TYPE OF DEFORMATION ON THE MECHANICAL PROPERTIES OF HAMMER FORGINGS 67-07 M17-72491
THEORETICAL AND PRACTICAL ASPECTS OF THE ELIMINATION OF HYDROGEN FLOCKING IN STEEL 67-07 M17-74108
MALLORY 22 --HIGH CONDUCTIVITY COPPER ALLOY-- 67-08 M01-75686
IMPROVING THE TENSILE PROPERTIES OF EP543 ALLOY FORGINGS BY EFFICIENT FORGING AND STAMPING 67-08 M07-75480
PRODUCING FORGINGS FROM CONTINUOUSLY CAST RECTANGULAR BILLETS 67-08 M07-75488
DETERMINATION OF THE HEAT RESISTANCE OF TITANIUM ALLOYS 67-08 M17-76012
PROGRESS IN THE MANUFACTURE OF LARGE FORGINGS 67-10 M07-79285
NICKEL ALLOY STEELS FOR HEAVY FORGINGS 67-11 M01-80532
LIGHT METALS HEAVY PRESS FORGINGS 67-12 M07-82274
FORGING METALLURGY--TITANIUM. PT. 3. HEAT TREATING AND MECHANICAL PROPERTIES 67-12 M07-82703

FORGINGS, MELTING
ELECTROSLAG REMELTING OF EI481 CR-MN-NI HEAT RESISTANT STEEL 67-05 M04-69685

FORGINGS, METAL WORKING
MANUFACTURING OF HOLLOW FORGINGS FROM INGOTS FREE OF SHRINKAGE DEFECTS 67-07 M07-73440

FORGINGS, MICROSTRUCTURE
THE NATURE OF MICROCRACKS IN ALUMINUM ALLOY PRODUCTS 67-04 M17-67835

FORGINGS, NONDESTRUCTIVE TESTING
PROSPECTUS FOR NDT IN THE SATURN AND ADVANCED SPACE FLIGHT PROGRAMS 67-02 M19-60917
RECOMMENDED PRACTICE FOR THE APPLICATION OF PENETRANT TESTING 67-05 M19-68423
THE ORIGIN, DETECTION AND IDENTIFICATION OF DEFECTS IN STEEL FORGINGS 67-06 M19-71892
PRACTICAL EXPERIENCE IN ULTRASONIC TESTING OF HEAVY ROTOR FORGINGS AND POSSIBLE WAYS OF IMPROVING THE DEPENDABILITY OF INTERPRETATION BY AUTOMATION 67-07 M19-73072
THE ORIGIN, DETECTION, AND IDENTIFICATION OF DEFECTS IN STEEL FORGINGS 67-07 M19-73370

FORGINGS, PHASE TRANSFORMATIONS
RECRYSTALLIZATION DIAGRAM OF LOW-PLASTICITY CHROMIUM-NICKEL-HEAT-RESISTANT STEEL 67-10 M14-78840

FORGINGS, PUNCHING
A NEW DEVICE FOR PIERCING LARGE UPSET FORGINGS ON STEAM-HYDRAULIC PRESSES 67-01 M07-57249

FORGINGS, QUALITY CONTROL
FLAW-MEASURING ULTRASONIC INSPECTION OF SEMIFINISHED METAL PRODUCTS 67-04 M19-67665

FORGINGS, REFINING
CONSUMABLE-ARC VACUUM MELTED STEEL FOR FORGINGS 67-09 M04-76506

FORGINGS, SURFACE FINISHING
ABRASIVE BLASTING--NEW EQUIPMENT MEANS NEW APPLICATIONS 67-02 M12-59015

FORGINGS, WELDING
SEMIAUTOMATIC WELDING OF LOCOMOTIVE FORGINGS USING A SELF-SHIELDING WIRE 67-04 M11-67813
SEMI-AUTOMATIC WELDING OF STRUCTURES FOR DIESEL LOCOMOTIVES WITH SELF SHIELDING ELECTRODES 67-06 M11-70313
A REMARKABLE ASSEMBLY--A BUBBLE CHAMBER ENVELOPE OF C. E. N. DESACLAY 67-06 M11-70576
WELDING OF THICK SECTIONS OF HASTELLOY X FOR THE PHOEBUS-2 NOZZLE 67-07 M11-74278
NEW SINGLE-PASS WELDING METHOD NOW AVAILABLE 67-08 M11-74653

FORMABILITY
NK HP-1, STEEL PLATE FOR HOT PRESSING 67-01 M08-58565
PROPERTIES OF CARBON STEELS USED IN THE WIRE INDUSTRY 67-02 M17-59106
THE EFFECT OF ROLLING AND ANNEALING TEMPERATURE ON THE PROPERTIES OF WROUGHT BERYLLIUM INGOT SHEET 67-03 M17-65281
DEEP DRAWING 67-04 M07-66144
THE EFFECT OF TWO-PHASE STRUCTURE ON THE SUSCEPTIBILITY TO DEFORMATION OF HIGH-ALLOY CHROMIUM AND CHROMIUM-NICKEL STEELS 67-04 M17-66019
MEASUREMENT OF STRAIN HARDENING AND PLASTIC STRAIN RATIO USING THE CIRCLE-ARC SPECIMEN 67-04 M17-66141
DEFORMABILITY OF DI-1 HEAT-RESISTING STAINLESS STEEL 67-04 M17-68196
EFFECT OF STRUCTURALLY-FREE CEMENTITE ON THE PROPERTIES OF COLD ROLLED MILD STEEL SHEET 67-05 M07-69439
FACTORS IN SELECTING MATERIALS FOR FORMING 67-06 M07-70722
ALUMINUM KILLED STEEL IMPROVES RIVET FORMABILITY AND QUALITY 67-06 M17-71138
POSTFORMABLE ADHESIVELY BONDED METAL LAMINATES 67-07 M11-73844
FABRICATING PROPERTIES OF GALVANIZED SHEETS 67-07 M17-73235
STUDY OF THE MECHANISM OF STRAIN IN MGO COMPACTS DURING ROASTING 67-08 M17-75597
HIGH-STRENGTH STEEL PLATE APPLIED TO VEHICULAR STRUCTURES --HIGHER STRENGTH STEEL PLATE WITH EXCELLENT FORMABILITY-- 67-08 M20-75809
MACHINING AND HEADING--SELECTION OF STAINLESS STEEL GRADES 67-09 M08-77100
NEW CONCEPTS IN ECONOMY 67-10 M01-79753
FUNDAMENTALS OF FORMING 67-10 M08-78557
DEFORMATION RESISTANCE AND DEFORMATION EFFICIENCY IN UPSETTING 67-11 M07-80844
SOUND CONTROL IN DESIGN THROUGH THE USE OF STEEL LAMINATES 67-12 M20-82988

FORMABILITY, ALLOYING EFFECTS
EFFECT OF ALLOYING ELEMENTS ON THE FORMABILITY OF CAST RE 67-05 M17-68978
EFFECTS OF ALLOYING ELEMENTS AND IMPURITIES ON PROPERTIES 67-08 M01-74807
JOUVENCEL.. A ZERO CARBON STEEL 67-09 M07-77108

FORMABILITY, HEATING EFFECTS
FORMABILITY OF ALUMINUM SHEETS 67-02 M17-5974,

FORMABILITY, TEMPERATURE EFFECTS
MECHANICAL AND FORMING PROPERTIES OF INGOT BERYLLIUM SHEET 67-07 M17-73761

FORMATION
SEE FORMING

FORMATION ENTROPY
SEE ENTROPY OF FORMATION

FORMING
SEE ALSO COLD SHEARING
FLATTENING
MULTIPLE-SLIDE FORMING--A NEW OPPORTUNITY FOR ELIMINATING SECONDARIES 67-01 M07-58675
NEW PROCESS WITH AN ANCIENT METAL 67-01 M12-58528
SOME APPLICATIONS OF ELECTROFORMING 67-02 M08-61563
THIN BOOSTER WALLS YIELD PAYLOAD HIKE 67-03 M08-65116
SOME EXPERIENCES IN COPPER ELECTROFORMING OF WAVE GUIDES 67-03 M08-65418
INTRICATE SHAPES BUILT UP FROM STACKED STAMPINGS 67-03 M11-65766
PERFORATED ZINC SHEETS BY ELECTROFORMING 67-03 M12-65679
GEOMETRIC PARAMETERS OF THE CONTINUOUS AREA OF FORMATION OF TUBES 67-04 M07-67613

FORMING

FIBRE-REINFORCED METALS BY ELECTROFORMING 67-04 M08-66153
TO BEAT THE COST OF COLD FORMING--TRY WARM FORMING 67-05 M08-68664
ELECTROFORMING THIN SHELLS FOR EXPERIMENTAL STUDIES 67-07 M12-73132
SOME CURRENT DEVELOPMENTS IN ELECTROFORMING 67-07 M12-73372
ELECTROFORMED NICKEL MOTOR CASES CUT COST 67-07 M12-74007
FORMING PLATE, SHEET AND FOIL 67-08 M08-74843
STUDY OF ENERGY-FORCE PARAMETERS IN FORMING CYLINDERS 67-08 M08-75481
ELECTROFORMING--A NEW PROCESS 67-08 M12-74569
A METHOD FOR CONTINUOUS SHAPING OF STRAIGHT-SEAMED TUBE BLANKS 67-09 M07-77636
DIP FORMING OF BIMETALLIC WIRE 67-09 M12-76476
HOW TO FORM AND FABRICATE PRECOATED METALS. PT. 2 67-10 M01-79197
DETERMINING THE CONTACT SURFACE IN FORMING THE BASES OF OXYGEN CYLINDERS 67-10 M07-78977
BLANKHOLDING AND FORMING PRESSURES IN URETHANE DIES 67-10 M08-79537
ELECTROFORMING CHALLENGES CONVENTIONAL DIEMAKING METHODS 67-10 M12-78881
A NEW CONTINUOUS METHOD OF FORMING THE SKELP FOR STRAIGHT SEAM WELDED TUBES 67-11 M07-80924
PRODUCING THIN-WALLED TUBULAR BILLETS IN 4KH13 STEEL AND SHAPING THE WORKING PORTION OF A COILED TUBULAR SPRING 67-12 M08-82066

FORMING, LUBRICANTS
LUBRICANTS FOR COLD FORMING 67-04 M07-68058

FORMS /MOLDS/
SEE MOLDS

FORWARD EXTRUSION
TRANSVERSE EXTRUSION. PT. 1 67-01 M07-58716
COLD EXTRUSION 67-01 M08-58726
PROGRESS IN IMPACT EXTRUSION 67-04 M08-66408
INVESTIGATION OF SURFACE CHANGES DURING FORWARD EXTRUSION 67-05 M07-68564
AN ATTEMPT TO REDUCE PIERCING PRESSURE WITH TRAPPED LUBRICANT 67-08 M07-75575
GRAPHICAL DETERMINATION OF PRESS FORCE AND DEFORMATION WORK IN UPSETTING AND COLD EXTRUSION 67-09 M08-77945
GRAPHICAL DETERMINATION OF EXTRUSION PRESSURE AND OF WORK OF DEFORMATION DURING UPSETTING AND COLD EXTRUSION 67-12 M07-82445

FOS PROCESS
SEE FUEL OXYGEN SCRAP PROCESS

FOSPRAY PROCESS
SEE PHOSPHATING /COATING/

FOSSIL FUELS
SEE ANTHRACITE
FUEL OIL
LIGNITE
NATURAL GAS

FOUNDRY COKE
SEE METALLURGICAL COKE

FOUNDRY INGOTS, MELTING
COMPARISON OF METALLURGICAL FACTORS IN HOT AND COLD BLAST CUPOLAS. PT. 1. IRON TEMPERATURE AND MELTING EFFICIENCY 67-07 M04-73489

FOUNDRY PRACTICE
ULTRASONIC TREATMENT IN METALLURGY AND FOUNDRY PRACTICE 67-01 M01-57153
CAST IRONS WITH TIN ADDITIONS 67-01 M01-57521
OXYGEN-CONVERTER PROCESS IN FOUNDRIES 67-01 M06-57472
COMPARATIVE STUDY OF HOT AND COLD BLAST CUPOLA OPERATION 67-01 M06-57595
THE CONSEQUENCES OF OVERHEATING ON THE PROPERTIES OF GRAY IRONS 67-01 M06-58120
DESIGN RECOMMENDATIONS FOR CASTINGS 67-01 M06-58358
FOUNDRY TECHNIQUE USING CHROMITE SANDS 67-01 M06-58475
REMELTING PIG IRON 67-01 M06-58664
STUDIES ON THE MANUFACTURING AND MECHANICAL PROPERTIES OF VANADIUM-CONTAINING HIGH-GRADE CAST IRON 67-01 M06-58741
STUDIES OF THE QUALITY, RELAXATION AND WEAR RESISTING PROPERTIES OF VANADIUM HIGH-GRADE CAST IRON 67-01 M17-58742
MODERN METHODS OF METALLURGICAL CONTROL IN THE IRON FOUNDRY 67-01 M19-58118
MEASURING THE METAL LEVEL IN POURING LADLES 67-02 M04-61916
DIRECTIONAL SOLIDIFICATION OF STEEL CASTINGS 67-02 M06-60201
MODERN IRON MELTING TECHNIQUES AND THEIR APPLICATION 67-03 M06-65003
THE MELTING OF CAST IRON IN AN ACID-LINED HOT BLAST CUPOLA FURNACE 67-03 M06-65350
REVOLUTIONARY CASTING TECHNIQUES UNVEILED BY CHRYSLER 67-03 M06-65601
X-RAY FLUORESCENCE ANALYSIS IN A STEEL FOUNDRY 67-03 M19-65010
HEAT PENETRATION IN MOLD WALL AFTER POURING 67-04 M03-68042
CASTING PIT OPERATIONS AT WHYALLA WORKS 67-04 M04-66113
THERMAL CONDITIONS AND CAVITY FILL IN ALUMINUM DIE CASTING 67-04 M06-66148
MELTING AND HANDLING ZINC AND ALUMINUM ALLOYS IN JAPANESE DIE-CASTING PLANTS 67-04 M06-66282
USE OF ELECTRONIC COMPUTERS FOR CALCULATING CHARGE IN FOUNDRY PRODUCTION 67-04 M06-66415
PRODUCTION OF COMMERCIAL SHOT 67-04 M06-66424
WEAR RESISTANCE OF ENGINE VALVE SEATS 67-04 M06-66425
PRODUCING CASTINGS OF INOCULATED IRON 67-04 M06-66426
ENGINEERING GROUP INVEST IN AN AUTONOMOUS FOUNDRY 67-04 M06-66564
CHANGING CHEMICAL COMPOSITION WHEN MAKING MALLEABLE CAST IRON IN A ROTARY FURNACE 67-04 M06-66654
CFD BUILDS NEW IRON FOUNDRY 67-04 M06-67498
ON DIRECTIONAL FREEZING OF GRAY IRON 67-04 M06-67568
INOCULATION IN MOLD IS MORE EFFECTIVE THAN IN LADLE 67-04 M06-68016
TECHNOLOGICAL VALUES OF DETERMINING RISER DIMENSIONS FOR IRON-CARBON-SILICON ALLOYS AND ESPECIALLY FOR CAST IRON. PT. 1-2 67-05 M06-68737
THE STATUS OF METAL-FORMING TECHNOLOGY AND CASTING IN 1966 67-05 M06-69142
CORE-TYPE INDUCTION FURNACES IN GRAY CAST IRON FOUNDRIES 67-05 M06-69312
MOLDING-MELTING BALANCE IN THE MODERNIZATION OF FOUNDRIES 67-05 M06-69583
ON THE CONTROL OF THE OXYGEN CONSUMPTION IN A BASIC OXYGEN LD FURNACE. PT. 2. STUDY OF THE END POINT CONTROL IN THE BASIC OXYGEN LD PROCESS 67-06 M04-72201
AN EXAMPLE OF BASIC LININGLESS HOT BLAST CUPOLA OPERATION AND CONTROL 67-06 M06-69952
OPERATION OF THE BASIC CUPOLA FOR THE PRODUCTION OF LIGHT NODULAR IRON CASTINGS 1956-1966 67-06 M06-69953
THE MOST COMMON ERRORS IN CUPOLA MELTING 67-06 M06-70672
OXYGEN CONVERTER MELTING IN FOUNDRIES 67-06 M06-70760
MELTING FURNACES IN MODERN FOUNDRIES 67-06 M06-70978
MALLEABLE FOUNDERS COMPLETE EXPANSION SCHEME 67-06 M06-71232
PRINCIPLES OF METAL CASTING 67-06 M06-71233
INDUCTION MELTING IN THE FOUNDRY 67-06 M06-71598
AUTODOMS FOUNDRIES BIGGER, BETTER 67-06 M06-71884
WILLIAM LEE AND SONS --MALLEABLE--, LTD., COMPLETES PHASE 1 EXPANSION 67-06 M06-72024
THE CONTROL OF DISSOLVED GASES, FACTOR OF QUALITY IN LIGHT ALLOY FOUNDING 67-06 M06-72153
MANUFACTURE OF LARGE CARBON STEEL CASTINGS FROM BASIC OXYGEN LD FURNACE STEEL 67-07 M06-72438
PROCESS CONTROL ON THE POURING FLOOR 67-07 M06-73613
ON-LINE CUPOLA CONTROL WITH A COMPUTER 67-07 M06-73614
METAL PIPE FOR MOLTEN ALLOYS 67-07 M18-74040
INSPECTION AND DESEAMING LINES AT LYSAGHTS 67-07 M19-72794
MEASURING THE TEMPERATURE OF MOLTEN IRON WITH AN OPTICAL PYROMETER 67-07 M19-74039
LD-PROCESS AS APPLIED TO PRODUCTION OF STEEL CASTINGS 67-08 M04-76166
REFRACTORY REQUIREMENTS FOR LARGE INDUCTION FURNACES IN THE FERROUS FOUNDRY 67-08 M05-76167
CURRENT QUESTIONS ON THE RESEARCH AND USES OF THE CASTING PROPERTIES OF ALLOYS 67-08 M06-75103

USING ULTRASONIC TESTING AS A FOUNDRY TOOL 67-08 M19-75540
DESIGN, OPERATION AND MAINTENANCE OF A 150-TON ELECTRIC FURNACE DUST COLLECTION SYSTEM 67-09 M04-76668
AUTOMATIC-MOULDING AND -POURING AT BRITANNIA WORKS 67-09 M06-78032
SHOP FLOOR CONTROL IN COPPER ALLOY FOUNDRIES 67-10 M06-79240
MODERN MACHINING METHODS.. A CHALLENGE TO FOUNDRY TECHNIQUES 67-10 M06-79241
FOUNDRY DEFECTS--A MEMORANDUM 67-10 M06-79692
EFFECT OF VARIATIONS IN COMPOSITION AND THERMAL TREATMENT ON CAST NICKEL-RICH ALLOY MC. 102 67-10 M17-79031
SWEDISH AUTOMATIC-MOLDING PLANT 67-11 M06-80238
THE INFLUENCE OF INDUCTION MELTING ON THE METALLURGY AND THE PRODUCTION CAPACITY OF THE FOUNDRY 67-11 M06-80369
PHOSPHORUS IN CAST IRONS--IMPURITY OR FACTOR OF QUALITY 67-11 M06-80527
TEMPERATURE MEASUREMENT IN FOUNDRY 67-11 M06-80529
ROLE OF WATER COOLING OF INGOT MOLDS ON THEIR LIFE-TIME 67-11 M06-80571
HANDLING OF MOLDS IN THE FOUNDRY 67-11 M06-80572
STAINLESS STEEL SAND CASTINGS 67-11 M06-80700
GAS AND POROSITY IN CASTINGS. PT. 1 67-11 M06-80930
FOUNDRY TECHNIQUES 67-12 M06-82834
ELECTROMAGNETIC POURING AND TREATMENT OF MOLTEN METAL 67-12 M06-83478
CORRELATION BETWEEN CASTING YIELD AND THE GATING FACTORES FOR GRAY IRON CASTINGS 67-12 M06-83482

FOUNDRY PRACTICE, AUTOMATIC CONTROL
AUTOMATIC MOULDING SYSTEM EMPLOYED IN A NEW MALLEABLE IRON FOUNDRY 67-10 M06-78389

FOUNDRY PRACTICE, AUTOMATION
COMPUTER CONTROL IN IRON FOUNDRIES 67-01 M06-58730
METAL CASTING INNOVATED BY CHRYSLERS NEW FOUNDRY 67-07 M06-73838
PRODUCTION OF MALLEABLE TUBE FITTINGS 67-09 M06-77399

FOUNDRY PRACTICE, CONTROL EQUIPMENT
THE MEASURING AND CONTROL EQUIPMENT OF CUPOLA FURNACES 67-06 M06-70040

FOUNDRY PRACTICE, IMPURITY EFFECTS
PRODUCTION OF THIN-SECTION NODULAR-IRON CASTINGS FREE FROM CARBIDES 67-07 M06-73217

FOUNDRY SANDS
FOUNDRY TECHNIQUE USING CHROMITE SANDS 67-01 M06-58475
ONE SAND MIX FOR SEVERAL ALLOYS 67-03 M06-65415
MODERN METHODS OF MOLDING FOR ONE-OF-A-KIND PARTS AND MASS PRODUCTION 67-05 M06-69582
INFLUENCES OF MOLDING SAND, MOLD HARDNESS AND POURING TEMPERATURE UPON HOT TEARING IN WHITE CAST IRON 67-08 M06-74619

FOURDRINIER MACHINES
SEE PAPER MACHINES

FOURIER ANALYSIS
X-RAY STUDY OF COLD-WORKED SILVER-ANTIMONY ALLOYS 67-01 M13-57413
SURFACE SELF-DIFFUSION OF GOLD. PT. 1. ANALYSIS OF THE SCRATCH-FLATTENING PROCESS 67-01 M14-57409
ELASTIC STRAINS IN COPPER DEFORMED BY ROLLING 67-03 M13-65123
CRYSTAL STRUCTURE OF HIGHER ALUMINUM BORIDES 67-04 M13-66121
AN X-RAY STUDY OF THE EFFECT OF MANGANESE ON THE OCCURRENCE OF STACKING FAULTS IN SILVER-BASE ALLOYS 67-04 M14-66334
X-RAY STUDY OF COLD-WORKED MAGNESIUM 67-06 M13-71661
EVALUATION FROM X-RAY DIFFRACTION PROFILES OF FOURIER COEFFICIENTS AND THE MICROSTRAIN DISTRIBUTION FUNCTION 67-08 M13-75343
EXAMPLES OF APPLICATIONS OF LINE BROADENING 67-08 M13-75344

FRACTIONAL CRYSTALLIZATION
THORIA SINGLE CRYSTALS GROWN BY VAPOR DEPOSITION IN A SOLAR FURNACE 67-05 M14-68286

FRACTIONAL DISTILLATION
SEE DISTILLATION

FRACTIONATION
SEE DISTILLATION

FRACTOGRAPHY
MICROFRACTOGRAPHY OF THIN FILMS 67-01 M13-57555
MICROFRACTOGRAPHIC PATTERNS WITH WALLNER LINES IN METALS 67-01 M13-58019
STUDY OF FRACTURE SURFACES PRODUCED BY CLEAVAGE 67-01 M13-58020
TECHNIQUES FOR REMOVING RUST FROM FRACTURES OF STEEL PARTS THAT ARE TO BE EXAMINED BY ELECTRON MICROFRACTOGRAPHY 67-01 M13-58022

FRACTOGRAPHY
A TECHNIQUE FOR PREPARING SAMPLES OF SMALL FRAGILE
A TECHNIQUE FOR PREPARING SAMPLES OF SMALL FRAGILE PARTICLES FOR ELECTRON MICROSCOPE EXAMINATION BY
PARTICLES FOR ELECTRON MICROSCOPE EXAMINATION BY MEANS OF REPLICAS
MEANS OF REPLICAS 67-01 M13-58543
MECHANISM OF THE BRITTLE FAILURE OF METALS WITH A BCC LATTICE 67-01 M17-57356
FRACTOGRAPHIC EXAMINATION OF FATIGUE SPECIMENS OF DUCTILE IRON 67-01 M17-57441
THEORY AND BACKGROUND OF FRACTURE MECHANICS 67-01 M17-58601
METALLURGICAL FACTORS AFFECTING THE FRACTURE TOUGHNESS OF 18 NI MARAGING WELDS 67-01 M17-58606
A MICRO-FRACTOGRAPHIC ANALYSIS OF FRACTURE SURFACES IN SOME ULTRA-HIGH-STRENGTH STEELS 67-01 M17-58609
IDENTIFICATION OF THE MECHANISM OF METAL FRACTURES BY ELECTRON MICROFRACTOGRAPHY 67-02 M17-59715
THE MICROFRACTOGRAPHIC CHARACTERISTICS OF THE FRAGILITY OF REVERSIBLE TEMPERING OF STEELS 67-02 M17-60553
PRESENTATION OF FRENCH WORKS ON ELECTRON MICROFRACTOGRAPH 67-02 M17-60658
USE OF CRACK INDICATORS IN RADIOGRAPHY 67-02 M19-59994
THE EFFECT OF FATIGUE ON THE DUCTILE-BRITTLE TRANSITION TEMPERATURE OF TWO MILD STEELS 67-04 M17-66172
ELECTRON FRACTOGRAPHY PINPOINTS CAUSE OF FATIGUE FRACTURE 67-05 M13-68677
ELECTRON MICROSCOPIC ANALYSIS OF EROSION WEAR OF 1KH18N9T STAINLESS STEEL DEPENDING ON HEAT TREATMENT AND CAVITATION EXPOSURE TIME 67-05 M13-69019
TOWARD A METHOD OF MICROFRACTOGRAPHIC STUDY OF STAINLESS STEEL 67-05 M13-69631
DETERMINING THE COLD-SHORTNESS THRESHOLD OF STEEL BY A MICROFRACTOGRAPHIC METHOD 67-05 M17-68742
OBTAINING HIGH-TEMPERATURE IMPACT FRACTURES FOR ELECTRON MICROFRACTOGRAPHY 67-05 M17-69049
THE ANALYSIS OF FRACTURE SURFACES BY ELECTRON MICROSCOPY 67-05 M17-69448
NONUNIFORM DISTRIBUTION OF TITANIUM IN AN FE-NI-TI ALLOY 67-06 M13-70921
TRANSMISSION ELECTRON MICROSCOPE EXAMINATION OF CRACKS FORMED IN MASSIVE BODIES 67-06 M13-71015
STUDY OF THE MICROGEOMETRY OF FRACTURES 67-07 M13-72866
INVESTIGATION OF THE STRUCTURE OF THE FRACTURE AND THE TEMPERATURE THRESHOLD OF COLD BRITTLENESS IN FERRITE-PEARLITE CLASS STEELS BY THE FRACTOGRAPHY METHOD 67-07 M17-72868
CONTRIBUTION TO THE INFLUENCE OF HYDROGEN ON THE CRACK PROPAGATION RATE IN WELDED SEAMS, STRESSED BY VIBRATION 67-08 M17-75319
NATURE OF FRACTURE OF ALUMINUM ALLOYS IN SOLID-LIQUID STATE 67-08 M17-75878
ELECTRON MICROSCOPE OBSERVATION OF FRACTURE SURFACE IN AL-ZN POLYCRYSTALLINE ALLOYS 67-09 M17-78248
EFFECTS OF ADDING SMALL AMOUNTS OF ZIRCONIUM TO HIGH-TENSILE REINFORCEMENT STEEL ON ITS PROPERTIES 67-10 M17-78930
LOOKING FOR THE WHY OF FRACTURE 67-10 M17-79782
TECHNIQUES FOR ELECTRON MICROSCOPE FRACTOGRAPHY 67-11 M13-81641
A FRACTOGRAPHIC ANALYSIS OF THE RELATIONSHIPS BETWEEN FRACTURE TOUGHNESS AND SURFACE TOPOGRAPHY IN ULTRAHIGH-STRENGTH STEELS 67-11 M17-80579

FRACTOGRAPHY
ENGINEERING APPLICATIONS OF FRACTOGRAPHY 67-11 M17-80688
FRACTOGRAPHY AND MICROSTRUCTURE OF ALUMINUM ALLOY 7075-T651 AND T7351 67-11 M17-80690
CLEAVAGE PHENOMENA AND TOPOGRAPHIC FEATURES 67-11 M17-80694
FRACTURE BY MICROSCOPIC PLASTIC DEFORMATION PROCESSES 67-11 M17-81100
THE APPLICATION OF ELECTRON FRACTOGRAPHY TO FATIGUE STUDIES 67-11 M17-81127
THE USEFULNESS OF FRACTOGRAPHY 67-12 M13-81818
ANALYSIS OF THE MICROGEOMETRY OF FRACTURES 67-12 M13-82174
MORPHOLOGIES OF BUBBLES AND VOIDS IN TUNGSTEN 67-12 M13-83064
NATURE OF CREEP CAVITIES IN TUNGSTEN 67-12 M13-83065
FRACTOGRAPHIC ANALYSIS OF SPECIMENS SUBJECTED TO CYCLIC STATIC TENSION 67-12 M17-81892
PRODUCTION OF HIGH-TEMPERATURE IMPACT FRACTURES IN ELECTRON MICROFRACTOGRAPHY 67-12 M17-82000
FRACTOGRAPHIC INVESTIGATION OF THE STRUCTURE AND TEMPERATURE THRESHOLD OF COLD BRITTLENESS IN FERRITE-PEARLITE STEELS 67-12 M17-82176
THE FATIGUE AND TENSILE FRACTURE OF TD-NICKEL 67-12 M17-82972
A FRACTOGRAPHIC INVESTIGATION OF THE EFFECT OF ENVIRONMENT ON FATIGUE-CRACK PROPAGATION IN AN ULTRAHIGH-STRENGTH STEEL 67-12 M17-83045
MICROSCOPIC FATIGUE FRACTURE SURFACE FEATURES IN 2024-T3 ALUMINUM AND THE INFLUENCE OF CRACK PROPAGATION ANGLE UPON THEIR FORMATION 67-12 M17-83051
FRACTURE POINT
DEFORMATION AND FRACTURE OF MILD STEEL CHARPY SPECIMENS 67-04 M17-66728
INFLUENCE OF REFORMING PROCESSES ON THE FRACTURE STRENGTH OF SOLIDS 67-05 M17-69215
FRACTURE POINT, COMPOSITION EFFECTS
ON THE FRACTURE OF SILICON PARTICLES IN ALUMINUM-SILICON ALLOYS 67-06 M17-69948
FRACTURE STRENGTH
CLEAVAGE FRACTURE OF ALPHA-IRON SINGLE CRYSTALS IN COMBINED TENSION AND TORSION 67-01 M17-57406
EVALUATION OF FRACTURE CHARACTERISTICS OF ALUMINUM ALLOYS AT CRYOGENIC TEMPERATURES 67-01 M17-57628
FRACTURE TEST METHODS AND THEIR APPLICATION 67-01 M17-58602
THE USE OF THE CRITICAL THICKNESS CONCEPT IN DESIGN 67-01 M17-58603
A STUDY OF THE FRACTURE RESISTANCE OF STEEL PRESSURE VESSELS BY MEANS OF CHARPY, DROP WEIGHT, AND FULL SIZE BURST TESTS 67-01 M17-58604
FRACTURE TOUGHNESS TESTS FOR TITANIUM ALLOY PLATE AND FORGINGS 67-01 M17-58605
METALLURGICAL FACTORS AFFECTING THE FRACTURE TOUGHNESS OF 18 NI MARAGING WELDS 67-01 M17-58606
INFLUENCE OF MICROSTRUCTURE ON THE STRENGTH AND TOUGHNESS OF LOW CARBON, HIGH STRENGTH ALLOY STEEL 67-01 M17-58608
A MICRO-FRACTOGRAPHIC ANALYSIS OF FRACTURE SURFACES IN SOME ULTRA-HIGH-STRENGTH STEELS 67-01 M17-58609
FRACTURE MICROMECHANICS OF EXTRA-WORKHARDENED TYPE 301 STAINLESS 67-01 M17-58610
TRANSITION BEHAVIOR AND ESTIMATION OF FRACTURE TOUGHNESS IN THE CHARPY IMPACT TEXT 67-02 M17-59754
AXIAL FATIGUE ON CARBON STEEL IN THE PLASTIC RANGE 67-02 M17-60662
THE MECHANICS OF BRITTLE FRACTURE 67-02 M17-60803
INFLUENCE OF THERMOMECHANICAL TREATMENT ON THE FORMATION OF FRACTURES IN TEMPERED STEELS 67-02 M17-61995
HEAT TREATMENTS OF ALUMINUM ALLOYS 67-03 M10-65949
WELDED SPIRAL-LAYERED PRESSURE CONTAINERS 67-04 M17-66561
EXAMPLES OF FRACTURES IN CASTINGS. INCIDENCE OF STRUCTURAL FEATURES 67-04 M17-66595
INFLUENCE OF FATIGUE ON BRITTLE FRACTURE IN MILD STEEL 67-04 M17-67415
THE RELATIONSHIP BETWEEN MECHANICAL PROPERTIES AND THE MICROSTRUCTURE OF CR STEELS WITH 0.6-1 PER CENT C 67-04 M17-67711
INFLUENCE OF REFORMING PROCESSES ON THE FRACTURE STRENGTH OF SOLIDS 67-05 M17-69215
NUCLEATION OF FRACTURE 67-05 M17-69727
FRACTURE PROCESSES IN METALS 67-06 M17-70711
MECHANICAL PROPERTIES OF NEUTRON-IRRADIATED PYROLYTIC CARBONS 67-06 M17-70887
EFFECT OF NOTCH DEPTH ON FRACTURE OF MILD STEEL SPECIMENS AFTER GENERAL YIELD 67-06 M17-71332
THE THEORETICAL STRENGTHS OF CRYSTALS AND THE TIP OF A CRACK 67-06 M17-71519
STRUCTURE AND PROPERTIES OF ALUMINUM OXIDE WHISKERS 67-07 M17-73135
FRACTURE OF STRUCTURAL MATERIALS 67-07 M17-74129
EFFECT OF PLASTIC DEFORMATION AND RESIDUAL STRESS ON THE FRACTURE RESISTANCE OF STEELS AT LOW TEMPERATURES 67-08 M17-75401
THE FRACTURE OF MILD STEEL LAMINATES 67-09 M17-77732
MULTIAXIAL STATE OF STRESS AND FRACTURE 67-09 M17-77851
A STUDY ON THE FATIGUE CRACK PROPAGATION OF A CAST SILUMIN CONTAINING COPPER 67-09 M17-78228
THE RELATIONSHIP BETWEEN METAL STRENGTH AND THE DISORIENTATION OF MOSAIC BLOCKS AND CRYSTALLITE SIZE 67-10 M17-79228
TENSILE PROPERTIES OF FIBER-REINFORCED METALS--FRACTURE MECHANICS 67-10 M17-80006
SOME ASPECTS OF THE FRACTURE OF METALLIC COMPOSITES 67-11 M17-80142
INFLUENCING THE STRENGTH PROPERTIES OF CU-NI-MO STEELS AFTER THERMOMECHANICAL WORKING THROUGH SPECIAL MELTING TECHNIQUES 67-11 M17-80218
METALLURGICAL RECULIARITIES IN THE REMELTING OF HIGH-SPEED STEEL S 6-5-2 IN THE MULTIPLE-CHAMBERED ELECTRON BEAM FURNACE, EMO 200 67-11 M17-80220
DEFORMATION AND FRACTURE OF GOLD-PLATINUM POLYCRYSTALS STRENGTHENED BY SPINOIDAL DECOMPOSITION 67-11 M17-81263
DISLOCATION DENSITIES IN TUNGSTEN 67-11 M17-81271
THE EFFECT OF PLASTIC DEFORMATION AND RESIDUAL STRESSES ON THE RESISTANCE OF STEELS TO FRACTURE AT LOW TEMPERATURES 67-12 M17-82022
THE INFLUENCE OF DEFORMATION VELOCITY ON THE TENSILE RUPTURE DUCTILITY OF STRAIN-AGED STEEL 67-12 M17-82587
FLOW AND FRACTURE IN METALS 67-12 M17-82661
FRACTURE STRENGTH, ALLOYING EFFECTS
THE CREEP AND FRACTURE PROPERTIES OF SOME NICKEL-CHROMIUM ALLOYS AT 600 C 67-07 M17-72816
FRACTURE STRENGTH, COMPOSITION EFFECTS
THE EFFECT OF COMPOSITION ON THE FRACTURE PROPERTIES OF 7178-T6 ALUMINUM ALLOY SHEET 67-01 M17-58607
FRACTURE STRENGTH, HEATING EFFECTS
STRENGTHENING OF SAPPHIRE BY PRECIPITATES CONTAINING TITANIUM 67-07 M10-72829
FRACTURE STRENGTH, TEMPERATURE EFFECTS
SOME FRACTURE CONSIDERATIONS IN THE DESIGN AND ANALYSIS OF SPACECRAFT PRESSURE VESSELS 67-02 M17-61138
HIGH TEMPERATURE STRENGTH AND DELAYED FRACTURE IN CERAMIC MATERIALS 67-06 M17-70542
FRACTURE STRENGTH, WELDING EFFECTS
SOLIDIFICATION-DEPENDENT ASPECTS OF FRACTURE IN 18 PER CENT NI MARAGING STEEL WELDS 67-05 M17-69713
FRACTURE TESTING
NEW DEVELOPMENTS IN TUBE TESTING MACHINES 67-01 M17-58117
FRACTURE TEST METHODS AND THEIR APPLICATION 67-01 M17-58602
THE USE OF THE CRITICAL THICKNESS CONCEPT IN DESIGN 67-01 M17-58603
FRACTURE TOUGHNESS TESTS FOR TITANIUM ALLOY PLATE AND FORGINGS 67-01 M17-58605
METALLURGICAL FACTORS AFFECTING THE FRACTURE TOUGHNESS OF 18 NI MARAGING WELDS 67-01 M17-58606
STUDY ON HOT-CRACKING OF AUSTENITIC STAINLESS STEEL IN OVERLAY WELDING 67-01 M17-58697
TRANSITION BEHAVIOR AND ESTIMATION OF FRACTURE TOUGHNESS IN THE CHARPY IMPACT TEXT 67-02 M17-59754
FRACTURE OF TUNGSTEN SINGLE CRYSTALS AT LOW TEMPERATURES 67-02 M17-60633

THE FRACTURE OF IRON-3 PER CENT SILICON SINGLE CRYSTALS CONTAINING STABLE MICROCRACKS 67-02 M17-60650
MECHANISM OF BRITTLE FRACTURE 67-02 M17-60706
VELOCITY OF PROPAGATION OF CLEAVAGE CRACKS IN TUNGSTEN 67-02 M17-60907
SOME FRACTURE CONSIDERATIONS IN THE DESIGN AND ANALYSIS OF SPACECRAFT PRESSURE VESSELS 67-02 M17-61138
APPLICATION OF THE VARESTRAINT TECHNIQUE TO THE STUDY OF WELDABILITY 67-02 M17-61582
PREVENTION OF BRITTLE FRACTURES IN WELDED STRUCTURES 67-02 M17-61650
INFLUENCE OF THERMOMECHANICAL TREATMENT ON THE FORMATION OF FRACTURES IN TEMPERED STEELS 67-02 M17-61995
STUDY ON TORSIONAL FATIGUE STRENGTHS OF RECTANGULAR AND CIRCULAR CROSS SECTIONS OF STEEL 67-03 M17-65195
BRITTLE FRACTURE OF FULL SCALE STRUCTURES DAMAGED BY FATIGUE 67-03 M17-65309
EFFECT OF SIDE GROOVING ON MEASUREMENTS OF PLANE-STRAIN FRACTURE TOUGHNESS 67-03 M17-65314
FRACTURE TESTING AND ASTM 67-05 M17-69424
HIGH TEMPERATURE STRENGTH AND DELAYED FRACTURE IN CERAMIC MATERIALS 67-06 M17-70542
THE INFLUENCE OF THE LOADING RATE ON THE RESIDUAL STRENGTH OF ALUMINIUM ALLOY SHEET SPECIMENS 67-06 M17-71182
BRITTLE FRACTURE BEHAVIOR OF QUENCHED AND TEMPERED STRUCTURAL STEELS 67-06 M17-71510
PLANE STRAIN CRACK TOUGHNESS TESTING OF HIGH STRENGTH METALLIC MATERIALS 67-07 M01-72812
NEW METHOD FOR REPRESENTING NOTCH TOUGHNESS-TEMPERATURE CURVES 67-09 M17-77084
RECOMMENDED A. S. T. M. PRACTICE FOR PLANE-STRAIN FRACTURE TOUGHNESS TESTING OF HIGH STRENGTH METALLIC MATERIALS USING A FATIGUE-CRACKED BEND SPECIMEN 67-11 M17-81467
THE USE OF DOUBLE CANTILEVER BEAM SPECIMEN FOR DETERMINING THE PLANE STRAIN FRACTURE TOUGHNESS OF METALS 67-12 M17-83248

FRACTURE TOUGHNESS
TITANIUM ALLOYS LOOK BEST FOR MACH 3 TRANSPORT AIRCRAFT 67-03 M17-65489
FAILURE-SAFE CASTING DESIGN 67-03 M17-65833
ENVIRONMENTAL EFFECTS ON TITANIUM ALLOYS 67-03 M18-65406
CONTRIBUTION TO THE STUDY OF THE TOUGHNESS TEST AND BRITTLE FRACTURE 67-04 M17-66041
FRACTURE TOUGHNESS DETERMINATIONS OF A-302B AND NI-MO-V STEELS WITH VARIOUS SIZE SPECIMENS 67-04 M17-66237
ANALYSIS OF PLANE-STRAIN FRACTURE IN A SERIES OF 0.45C-NI-CR-MO STEELS WITH DIFFERENT SULFUR CONTENTS 67-04 M17-66942
DELAYED FRACTURE OF WELDED JOINTS FROM ALLOYS OF THE AL-ZN-MG SYSTEM 67-04 M17-67152
AN EVALUATION OF MECHANICAL PROPERTIES OF CAST MARAGING STEELS 67-04 M17-67329
APPLICATION OF FRACTURE MECHANICS TO AN ALLOY STEEL USED IN TURBO-GENERATOR LOW-PRESSURE DISKS 67-04 M17-67417
FRACTURE BEHAVIOR 67-05 M17-68998
EXPERIMENTS ON A STRUCTURAL STEEL USING THE S. O. D. NOTCH TOUGHNESS TEST 67-06 M17-69901
THE ASSOCIATION BETWEEN CRACK-OPENING DISPLACEMENT AND FRACTURE TOUGHNESS 67-06 M17-69929
DETERMINATION OF TOUGHNESS OF HARD STEELS 67-06 M17-70824
DETERMINATION OF TOUGHNESS OF HARD STEELS BY STATIC COMPRESSION TESTING AND BY TORSION TESTING 67-06 M17-70825
EFFECTS OF THERMAL STRAINING DURING WELDING ON THE FRACTURE TOUGHNESS OF A MILD STEEL 67-06 M17-70860
THE EFFECT OF THE SHEET THICKNESS ON THE FRACTURE TOUGHNESS OF CRACKED SHEET 67-06 M17-71181
STRESS INTENSITY FACTORS FOR HOLLOW CIRCUMFERENTIALLY NOTCHED ROUND BARS 67-06 M17-71633
INTRODUCTION TO FRACTURE TOUGHNESS 67-06 M17-72185
PLANE STRAIN CRACK TOUGHNESS TESTING OF HIGH STRENGTH METALLIC MATERIALS 67-07 M01-72812
INTRODUCTION TO FRACTURE TOUGHNESS 67-07 M17-72487
FRACTURE BEHAVIOR OF TITANIUM ALLOYS IN AQUEOUS ENVIRONMENT 67-07 M18-73723
DUPLEX AGING--THE WAY TO STRONG, CORROSION RESISTANT ALUMINUM ALLOYS 67-08 M10-74495
DETERMINATION OF PLANE STRAIN FRACTURE TOUGHNESS 67-08 M17-74683
AN INVESTIGATION OF THE MECHANICAL PROPERTIES AND MICROSTRUCTURES OF 18NI --250-- MARAGING STEEL WELDMENTS 67-08 M17-75967
THE VARIATION OF CRACK TOUGHNESS OF MILD STEEL WITH TEMPERATURE AND STRAIN RATE 67-09 M17-78045
A REVIEW OF CRYOGENIC FRACTURE TOUGHNESS BEHAVIOR 67-10 M17-78484
A VERSATILE ALUMINUM ALLOY FOR CRYOGENIC APPLICATIONS 67-10 M17-78486
CRYOGENIC PROPERTIES OF 18NI-9CO-5MO AND 18NI-7CO- 67-10 M17-78491
EVALUATING ALLOYS FOR FAILURE-SAFE STRUCTURES 67-10 M17-78763
FLOW STRENGTH AND FRACTURE TOUGHNESS OF 9 NI 4 CO STEEL AS AFFECTED BY STRAIN TEMPERING AND AUSFORMING 67-10 M17-79687
THE EFFECT OF BETA FORGING ON SEVERAL TITANIUM ALLOYS 67-11 M17-80517
A FRACTOGRAPHIC ANALYSIS OF THE RELATIONSHIPS BETWEEN FRACTURE TOUGHNESS AND SURFACE TOPOGRAPHY IN ULTRAHIGH-STRENGTH STEELS 67-11 M17-80579
FRACTOGRAPHY AND MICROSTRUCTURE OF ALUMINUM ALLOY 7075-T651 AND T7351 67-11 M17-80690
MECHANICAL PROPERTIES OF METALS 67-11 M17-80764
THE EFFECT OF ENVIRONMENTS ON FATIGUE-CRACK PROPAGATION IN AN ULTRAHIGH-STRENGTH STEEL 67-11 M17-81033
FACTORS AFFECTING THE SERVICE LIFE OF CAST TOOLING 67-11 M17-81126
FRACTURE TOUGHNESS OF A MEDIUM-STRENGTH STEEL 67-11 M17-81140
HIGH-TEMPERATURE STEELS IN STEAM TURBINES 67-11 M20-80283
USE OF CRACK-LINE-LOADED SPECIMENS FOR MEASURING PLANE-STRAIN FRACTURE TOUGHNESS 67-12 M17-81855
THE EFFECT OF ALPHA PLUS BETA AND BETA FORGING ON THE FRACTURE TOUGHNESS OF SEVERAL HIGH-STRENGTH TITANIUM ALLOYS 67-12 M17-81930
BERYLLIUM 67-12 M17-83115
A COMPARISON--PLANE STRAIN FRACTURE TOUGHNESS AND THE ISOTHERMAL FLOW PROPERTIES OF A STRUCTURAL STEEL 67-12 M17-83130
NUMERICAL ANALYSIS OF CRACK PROPAGATION IN CYCLIC-LOADED STRUCTURES 67-12 M17-83239
FRACTURE TOUGHNESS OF 7075-T6 AND -T651 SHEET, PLATE, AND MULTILAYERED ADHESIVE-BONDED PANELS 67-12 M17-83244

FRACTURE TOUGHNESS, HEATING EFFECTS
THE EFFECT OF HOT ROLLING VARIABLES ON THE FRACTURE TOUGHNESS OF 18NI MARAGING STEEL 67-12 M17-83059

FRACTURE TOUGHNESS, STRESS EFFECTS
THE EMBRITTLING EFFECT OF SMALL ELASTIC STRESS WAVES ON CRACK TOUGHNESS OF A STRUCTURAL STEEL 67-12 M17-81853

FRACTURE TOUGHNESS, TEMPERATURE EFFECTS
FRACTURE TOUGHNESS OF STRUCTURAL STEELS AS A FUNCTION OF THE RATE PARAMETER 67-06 M17-71636
A REVIEW OF CRYOGENIC FRACTURE TOUGHNESS BEHAVIOR 67-09 M17-77303
CRYOGENIC PROPERTIES OF 18NI-9CO-5MO AND 18NI-7CO-5MO MARAGING STEEL SHEET 67-09 M17-77566

FRACTURES
RESISTANCE TO HOT CRACKING OF STEEL REFINED BY MEANS OF SYNTHETIC SLAGS 67-04 M17-66215
SURFACE FRACTURES ON COLD-WORKING ROLLS, THEIR FORMATION AND AN INTERPRETATION OF THEIR CAUSES 67-04 M17-67411
APPLICATION OF FRACTURE MECHANICS TO AN ALLOY STEEL USED IN TURBO-GENERATOR LOW-PRESSURE DISKS 67-04 M17-67417
LOW-CYCLE FATIGUE TESTS UNDER REVERSED TENSION/COMPRESSION STRESSES WITH CONSTANT TRUE-STRAIN AMPLITUDE 67-06 M17-70033
ON THE INTERPRETATION OF FRACTURE SURFACE OBSERVATIONS 67-06 M17-70444
THE INITIATION OF DUCTILE FAILURE BY FRACTURED CARBIDES IN AN AUSTENITIC STAINLESS STEEL 67-07 M17-73925
MECHANICAL PROPERTIES AND CLEAVAGE FRACTURE OF IRON SINGLE CRYSTALS AT 77 K 67-09 M17-77597
ELECTRON MICROSCOPE OBSERVATION OF FRACTURE

FRACTURES

SURFACE IN AL-ZN POLYCRYSTALLINE ALLOYS 67-09 M17-78248

FRACTURES, PRESSURE EFFECTS
ULTRAHIGH-VACUUM EFFECTS ON THE MECHANICAL BEHAVIOR OF MOLYBDENUM 67-06 M17-71605

FRACTURES, WELDING EFFECTS
FAILURE OF THE SHAFT OF A VERTICAL PUMP 67-08 M17-75536

FRACTURING
MECHANISM AND KINETICS OF DUCTILE AND BRITTLE FRACTURE OF SILICON IRON 67-01 M17-57635
MECHANICAL PROPERTIES OF THERMALLY STRENGTHENED PIPE STEELS IN PLANE STRESS CONDITIONS 67-01 M17-57644
USABILITY OF WEL-TEN 80C WELDED JOINTS OF HIGH-TENSION STEEL 67-02 M17-58940
DETERMINATION OF THE COHESIVE STRENGTH OF LOW-CARBON STEEL --0.03 PER CENT C-- BY MEANS OF HIGH HYDROSTATIC PRESSURES 67-02 M17-60905
BRITTLE BEHAVIOR IN EXTRUDED BERYLLIUM TUBES 67-02 M17-60906
THE INITIATION OF BRITTLE FRACTURE IN NOTCHED TENSION SPECIMENS 67-02 M17-60908
FRACTURE OF COPPER ALLOYS BY MICROIMPACT ACTION 67-02 M17-61729
FRACTURE OF SILICON AND GERMANIUM INDUCED BY PULSED ELECTRON IRRADIATION 67-03 M17-65744
HIGH STRENGTH PRESSURE WELDED STEEL BAR 67-03 M17-65822
ON THE FRACTURE OF LOW-PLASTICITY MATERIALS DURING PRESSING 67-04 M07-67044
A MODIFIED DOUBLE PILE-UP TREATMENT OF THE INFLUENCE OF GRAIN SIZE AND DISPERSED PARTICLES ON BRITTLE FRACTURE 67-04 M17-66066
THE EFFECT OF PRE-STRAIN AND STRAIN-AGEING ON THE CLEAVAGE FRACTURE OF A HIGH-MANGANESE STEEL 67-04 M17-66068
A QUANTITATIVE EVALUATION OF THE SIZE EFFECT IN THE BRITTLE FRACTURE OF WELDED STRUCTURES 67-04 M17-66431
THE SENSITIVITY OF WELDED JOINTS IN AUSTENITIC STEELS TO BRITTLE FRACTURE AT HIGH TEMPERATURES 67-04 M17-66513
STRENGTH OF WELDED JOINTS IN STRUCTURES MADE OF HIGH-STRENGTH STEEL 67-04 M17-66567
BRITTLE FRACTURE IN ALPHA-TITANIUM 67-04 M17-66938
NUMERICAL DESCRIPTIONS OF THE AMBIENT LOW-TEMPERATURE, AND HIGH-STRAIN RATE FLOW AND FRACTURE BEHAVIOR OF PLAIN CARBON STEEL 67-04 M17-66941
ELECTRON MICROSCOPIC AND X-RAY DIFFRACTION ANALYSIS OF 1KH18N9T STEEL FRACTURES 67-04 M17-67373
INFLUENCE OF FATIGUE ON BRITTLE FRACTURE IN MILD STEEL 67-04 M17-67415
TECHNIQUE FOR MICROSCOPIC OBSERVATION OF CRACK PROPAGATION 67-04 M17-67735
BRITTLE FRACTURE OF STEEL IN ACID MEDIUM 67-04 M18-67839
ON THE VALIDITY OF THE LAW OF CONSTANT NORMAL STRESS FOR THE TENSILE CLEAVAGE OF ZINC SINGLE CRYSTALS 67-05 M17-68299
EVALUATING COLD SHORTNESS FROM THE FORM OF THE FRACTURE 67-05 M17-68741
ON THE EVALUATION OF THE EFFECT OF ATMOSPHERIC CORROSION ON THE TENDENCY OF STEELS TO BRITTLE FRACTURE 67-05 M17-68743
FATIGUE CRACK PROPAGATION IN METALS 67-05 M17-68772
FRACTURE BEHAVIOR 67-05 M17-68998
CONTRIBUTION TO THE STUDY OF THE PHENOMENON OF FRACTURE OF METALS 67-05 M17-69111
STUDY OF THE MECHANICAL PROPERTIES OF SILICON-CONTAINING FERRITE. THE INFLUENCE OF CARBON 67-05 M17-69112
THE POSSIBILITY OF BRITTLE FRACTURE OF ALUMINUM ALLOY WELDED JOINTS 67-05 M17-69408
CAVITY DEVELOPMENT DURING CREEP OF A DILUTE NICKEL ALLOY 67-05 M17-69565
ON THE EVALUATION OF MECHANICAL PROPERTIES AND THE TYPE OF FRACTURE OF ANISOTROPIC METALS 67-05 M17-69633
NUCLEATION OF FRACTURE 67-05 M17-69727
SOME INTERESTING CASES OF FAILURES OF METALS IN SERVICE 67-06 M17-70046
BRITTLE FRACTURES IN SERVICE 67-06 M17-70561
PHYSICAL BASIS OF YIELD AND FRACTURE CONFERENCE PROCEEDINGS 67-06 M17-70621
SOME ASPECTS OF DUCTILE FRACTURE IN METALS 67-06 M17-70623
THE EFFECT OF FREE DISLOCATIONS ON YIELDING AND FRACTURE IN BODY-CENTERED CUBIC METALS 67-06 M17-70624
FRACTURE OF IRON-BASE SOLID-SOLUTION ALLOYS 67-06 M17-70625
THE EFFECT OF TRIAXIAL STRESS SYSTEMS ON BRITTLE FRACTURE AND ON THE BRITTLE-DUCTILE TRANSITION 67-06 M17-70631
THE SLIDING PROCESS AS A FRACTURE-INDUCING MECHANISM 67-06 M17-70633
A THEORETICAL FRACTURE CRITERION AND CLEAVAGE IN ZINC 67-06 M17-70634
ENERGY BALANCE CRITERIA IN DUCTILE FRACTURE 67-06 M17-70646
DUCTILE AND BRITTLE CRYSTALS 67-06 M17-71285
THE EFFECT OF FINITE SPECIMEN WIDTH ON THE RESIDUAL STRENGTH OF LIGHT ALLOY SHEET 67-06 M17-71499
BRITTLE FRACTURE BEHAVIOR OF QUENCHED AND TEMPERED STRUCTURAL STEELS 67-06 M17-71510
GRAIN-SIZE DEPENDENCE OF FRACTURE IN COPPER-ALUMINIUM ALLOYS EMBRITTLED BY MERCURY 67-06 M17-71542
THE DEEP NOTCH TEST AND BRITTLE FRACTURE INITIATION 67-06 M17-71688
THE INFLUENCE OF TORSIONAL PRESTRAINING ON NOTCH-BRITTLE FRACTURE 67-07 M17-72625
THE PART PLAYED BY SIZE EFFECT DURING THE BRITTLE FRACTURE OF MEMBERS OF WELDED STRUCTURES 67-07 M17-72690
EFFECTS OF METALLURGICAL VARIABLES ON DEFORMATION AND FRACTURE 67-07 M17-72745
EFFECTS OF EXTERNAL VARIABLES ON DEFORMATION AND FRACTURE 67-07 M17-72746
THE USE OF MATERIALS PROPERTIES BY THE REACTOR VESSEL DESIGNER 67-07 M17-73397
THE SIGNIFICANCE OF RECENT DEVELOPMENTS IN FRACTURE MECHANICS IN GREAT BRITAIN IN RELATION TO THE SAFETY OF REACTOR PRESSURE VESSELS 67-07 M17-73398
THE EFFECTIVENESS OF WELDED JOINTS IN METAL STRUCTURES MADE OF HIGH TENSILE STEEL 67-07 M17-73424
FRACTURE BEHAVIOUR OF TWO CREEP-RESISTANT MATERIALS SUBJECTED TO CYCLIC LOADING AT ELEVATED TEMPERATURE 67-07 M17-74086
FRACTURE OF STRUCTURAL MATERIALS 67-07 M17-74129
SOME CHARACTERISTICS OF BRITTLE FAILURE OF THE TWO-PHASE STEELS DURING HOT PLASTIC DEFORMATION 67-07 M17-74194
THE TENSILE PROPERTIES AND FRACTURE OF URANIUM BETWEEN MINUS 200 C. AND PLUS 900 C 67-08 M17-74514
FRACTURE CHARACTERISTICS IN QUENCHED STEEL 67-08 M17-75269
ORIGIN OF MICROCRACKS IN MO-35 AT.PER CENT RE ALLOY 67-08 M17-75282
MECHANICAL PROPERTIES OF METALS 67-08 M17-75600
THE DEFORMATION AND FRACTURE OF TWO-PHASE MATERIALS 67-08 M17-76258
FRACTURE OF WELDS IN PARTS MADE OF STEEL WITH A HIGH YIELD STRENGTH 67-09 M17-76899
BRITTLE FRACTURE IN WELDED JOINTS IN ALUMINIUM ALLOYS 67-10 M17-78512
CRACKING OF A STRONG ALUMINIUM ALLOY USED IN AIRCRAFT CONSTRUCTION 67-10 M17-78753
THE CLASSIFICATION OF STEELS ACCORDING TO TRANSITION TEMPERATURES AS DETERMINED BY NOTCHED BAR IMPACT TESTS 67-10 M17-79064
THE ORIGIN OF FRACTURES IN AG-CDO COMPOSITE MATERIALS 67-10 M17-79078
CHANGE IN FRACTURE STRUCTURE AND IMPACT STRENGTH OF 3KH13N7S2 STEEL AS A RESULT OF OVERHEATING DURING HOT PRESSWORKING AND HEAT TREATMENT 67-10 M17-79326
FATIGUE CRACK PROPAGATION IN THE HARDENED STEEL 67-10 M17-79598
FRACTURE OF NODULAR CAST IRON 67-10 M17-79766
INTERGRANULAR FRACTURE OF ALLOY STEELS 67-10 M17-79771
MICROFRACTOGRAPHIC FEATURES OF THE DIFFERENT BRITTLE FRACTURES ASSOCIATED WITH THE TEMPERING OF STEELS 67-10 M17-80015
A STATISTICAL THEORY OF BRITTLE FRACTURE 67-10 M17-80029
FRACTURE OF POLYCRYSTALS 67-11 M17-80141

THE MICROSTRUCTURAL ASPECTS OF TENSILE FRACTURE
67-11 M17-80144
THE BRITTLE FRACTURE RESISTANCE OF LOW CARBON STEELS IN RELATION TO PRELIMINARY LOAD CYCLING
67-11 M17-80645
THE STRESS CONCENTRATION SUSCEPTIBILITY OF LOW CARBON STEEL WELDED JOINTS DURING LOAD CYCLING
67-11 M17-80646
THE ROLE OF CROSS-SLIP IN BRITTLE FRACTURE AND FATIGUE
67-11 M17-81034
FRACTURE OF GERMANIUM AT ROOM TEMPERATURE
67-11 M17-81264
BOILER STEEL PROPERTY REQUIREMENTS
67-11 M20-80285
REPORTS ON BRITTLE FRACTURES 67-12 M11-83214
FRACTURE CONSIDERATIONS IN DEFORMATION PROCESSING
67-12 M17-82771
THE INFLUENCE OF STRESS-STATE AND INCLUSION CONTENT ON DUCTILE FRACTURE WITH ROTATION
67-12 M17-83249
A STUDY OF FATIGUE WITHIN THE FRAMEWORK OF THE KINETIC CONCEPT OF FRACTURE 67-12 M17-83485
INTERGRANULAR FAILURE OF PRECIPITATION-HARDENED ALUMINUM ALLOYS 67-12 M17-83527

FRACTURING
ANALYSIS OF FRACTURE ENERGY IN THE IMPACT TEST
ANALYSIS OF FRACTURE ENERGY IN THE IMPACT TEST
67-12 M17-83579

FRACTURING, ALLOYING EFFECTS
EFFECT OF COBALT ON BRITTLE FRACTURE SUSCEPTIBILITY OF IRON 67-04 M17-66489
EFFECT OF CERTAIN ALLOYING ELEMENTS ON THE STRENGTH AND PLASTICITY OF TITANIUM IN THE -196 TO 800 C. TEMPERATURE RANGE 67-11 M17-81163

FRACTURING, IMPURITY EFFECTS
FISH EYE FORMATION IN UNALLOYED STRUCTURAL STEELS
67-08 M17-74447

FRACTURING, PRESSURE EFFECTS
ON THE BRITTLE-DUCTILE TRANSITION PRESSURE
67-06 M17-71961
YIELDING AND FRACTURE IN SOME BODY-CENTERED CUBIC METALS 67-08 M17-74517
THE EFFECT OF HIGH-PRESSURE HYDROGEN UPON THE TENSILE PROPERTIES AND FRACTURE BEHAVIOR OF 304L STAINLESS STEEL 67-08 M17-75979

FRACTURING, STRESS EFFECTS
FORMATION OF BRITTLE CRACKS IN STEEL DURING TWINNING 67-04 M17-66491
THE EFFECT OF PRE-STRAIN AND STRAIN-AGEING ON THE CLEAVAGE FRACTURE OF A LOW CARBON STEEL
67-06 M17-70433

FRACTURING, TEMPERATURE EFFECTS
BRITTLE FRACTURE TESTS ON STEEL PLATE TO BS. 968 IN 1962 67-08 M17-75362

FRACTURING, WELDING EFFECTS
SOLIDIFICATION-DEPENDENT ASPECTS OF FRACTURE IN 18 PER CENT NI MARAGING STEEL WELDS
67-05 M17-69713

FRAGILITY
BRITTLENESS OF VANADIUM IN AN ATMOSPHERE OF HYDROGEN IN ATMOSPHERIC TEMPERATURE
67-02 M17-61022
THE FRAGILIZATION OF NIOBIUM BY HYDROGEN AT AMBIENT TEMPERATURES AND THE EFFECT OF STRAIN HARDENING
67-10 M17-79872

FRAGMENTATION
FISSION FRAGMENT DAMAGE IN TUNGSTEN
67-05 M16-68761
INVESTIGATION OF MULTIPLE IMPACTS BETWEEN STEEL BALLS AND PLATES IN CONNECTION WITH THE SHATTERING OF SHOT-PEENING MEDIA AND STEEL WEAR
67-09 M17-78189

FRAMES
SEE ALSO AIRFRAMES

FRAMES, MATERIALS
PROPERTIES OF LOW-ALLOY WELDING STEELS USED TO MANUFACTURE RAILWAY ROLLING STOCK
67-04 M17-67826

FRAMES, WELDING
A CONTINUOUS PRODUCTION LINE FOR FITTING UP AND WELDING ELECTRIC LOCOMOTIVE FRAMES --FROM EXPERIENCE AT THE NOVOCHERKASSK ELECTRIC LOCOMOTIVE WORKS--
67-02 M11-60192
CO2 WELDING OF A TRACTOR FRAME 67-04 M11-67814
CO2 WELDING OF A TRACTOR CHASSIS
67-06 M11-70314
DOUBLE ARC WELDING A SEMITRAILER BEAM
67-08 M11-75410
THE TWIN ARC WELDING OF OPEN TOP WAGON SOLE BARS
67-12 M11-82031

FRANK GROWTH MECHANISM, RADIATION EFFECTS
ELECTRON MICROSCOPY OF TYPES OF DEFECT CLUSTERS IN IRRADIATED METALS. PT. 1. THEORY OF CONTRASTS AND EXPERIMENTAL METHODS FOR IDENTIFICATION OF DEFECT TYPES 67-05 M16-69782

FRANK READ SOURCES, STRESS EFFECTS
DISLOCATION MULTIPOLES 67-05 M13-69468

FREE ENERGY
SEE ALSO FREE ENERGY OF ACTIVATION
FREE ENERGY OF FORMATION
FREE ENERGY OF REACTION
FREE ENERGY OF TRANSFORMATION
THE ACTIVITY OF OXYGEN IN THE LIQUID FE-PT ALLOY SYSTEM 67-01 M15-58469
THE LATTICE STABILITY OF THE TRANSITION METALS
67-11 M13-81107
THE THERMODYNAMIC STABILITY OF METALLIC PHASES
67-11 M15-81105
MEASUREMENTS OF THE ENERGY LIBERATED DURING THE HEATING OF BE SPECIMENS IRRADIATED BY NEUTRONS AT 77 K 67-12 M16-82509

FREE ENERGY, COMPOSITION EFFECTS
THERMODYNAMIC PROPERTIES AND NONSTOICHIOMETRY OF OF
THORIUM DICARBIDE 67-07 M15-74227

FREE ENERGY OF ACTIVATION
THE STACKING-FAULT ENERGY IN THE AG-IN SERIES
67-02 M13-60809
CALCULATION OF DIFFUSION PARAMETERS
67-02 M14-61918
VISCOSITY MEASUREMENTS. PT. 16. THE NEW DOUBLE CAPILLARY VISCOSIMETER AND A CRITICAL SURVEY OF NEW MEASUREMENTS OF VISCOSITY-VALUES FOR PURE METALS 67-02 M15-60649
SOME NOTES ON THE STRENGTHENING MECHANISM IN NEUTRON IRRADIATED COPPER SINGLE CRYSTALS
67-02 M17-61504
KINETICS AND ACTIVATION ENERGY OF OXIDATION OF ALLOYS IN THE NB-V-TI SYSTEM 67-02 M18-60099
STACKING FAULT ENERGY OF FACE CENTERED CUBIC METALS ESTIMATED BY ELECTRON MICROSCOPIC ANALYSIS OF DIFFRACTION CONTRAST OF FAULTED DIPOLES
67-03 M13-65216
THE INTERDIFFUSION OF NIOBIUM AND MOLYBDENUM
67-04 M14-66160
INTERNAL FRICTION OF PALLADIUM CONTAINING HYDROGEN
67-04 M14-66544
ON THE ANOMALOUS DIFFUSION BEHAVIOUR OF BCC ZIRCONIUM 67-04 M14-66547
PROPERTIES OF THE FREE ENERGY ASSOCIATED WITH THE INTERDIFFUSION OF TWO SOLIDS 67-04 M15-66064
RELATIONSHIP BETWEEN STRENGTH AND STRUCTURE IN DEFORMATION AT ELEVATED TEMPERATURES
67-04 M17-66042
COMMENT ON THE EFFECT OF CARBON ON THE STRAIN RATE SENSITIVITY OF IRON SINGLE CRYSTALS
67-04 M17-66545
OXIDATION OF COBALT BETWEEN 800 AND 1100
67-04 M18-66190
THE ENERGY OF DISSOCIATED TRIANGULAR FRANK DISLOCATION LOOPS IN F. C. C. METALS
67-05 M13-68754
THE NATURE OF DEFECTS IN QUENCHED NICKEL
67-05 M13-68755
THE THEORY OF STACKING-FAULT ENERGIES IN CLOSE-PACKED METALS 67-05 M13-68759
ESTIMATE OF EXTRINSIC STACKING-FAULT ENERGIES FROM DISLOCATION CONFIGURATIONS 67-05 M13-69204
THE MEASUREMENT OF STACKING FAULT ENERGY
67-05 M13-69454
STUDY OF STACKING FAULTS IN FACE CENTERED CUBIC NICKEL ALLOYS 67-05 M13-69455
STUDY OF HYDROGENATED NICKEL 67-05 M13-69458
INTERSECTING OF STACKING FAULTS
67-05 M13-69459
ENERGIES OF STACKING FAULTS AND TWINS FOR NORMAL METALS 67-05 M13-69460
MEASUREMENT OF STACKING-FAULT ENERGIES BY X-RAY DIFFRACTION 67-05 M14-69217
DEFORMATION MECHANISM OF STEEL CONSIDERED AS A RESULT OF TWO ACTIVATION PROCESSES
67-05 M15-68910
INFLUENCE OF MG ON THE RECOVERY OF AL IRRADIATED WITH FAST NEUTRONS AT 78 K 67-05 M15-69336
HEAT OF ACTIVATION OF SECONDARY CREEP IN AL-MG ALLOYS 67-05 M17-69135
SOURCE OF LOW-TEMPERATURE ELASTIC LIMIT OF CUBIC CENTERED METALS 67-05 M17-69466

FREE ENERGY OF ACTIVATION

ACTIVATION ENERGY OF AUSTENITE FORMATION IN STEEL
67-06 M10-71126
DISLOCATION MECHANISMS IN SINGLE CRYSTALS OF TANTALUM AND MOLYBDENUM AT LOW TEMPERATURES
67-06 M13-70411
FAULTED DEFECTS AND STACKING-FAULT ENERGY
67-06 M13-71534
GRAIN BOUNDARY MIGRATION DURING RECRYSTALLIZATION. PT. 1. ZONE-REFINED LEAD, ZINC, TIN AND BISMUTH. PT. 2. ZONE-REFINED ALUMINUM 67-06 M14-69933
PHASE EQUILIBRIA IN THE CD-SE SYSTEM
67-06 M14-72174
ELECTROMIGRATION AND THERMAL TRANSPORT IN SODIUM METAL 67-06 M16-69916
CREEP IN POTASSIUM AS A FUNCTION OF TEMPERATURE AND PRESSURE 67-06 M17-70683
SOME VARIATIONS IN THE ACTIVATION ENERGY FOR CREEP IN NIMONIC 80A 67-06 M17-70876
THE STACKING-FAULT ENERGY IN ALPHA-SILVER-TIN ALLOYS 67-07 M13-73071
COMPARISON OF THE ENERGY OF STACKING FAULTS WITH THE ELECTRON STRUCTURE OF THE METAL
67-07 M13-73483
A KINETIC ANALYSIS OF ZNS IN RELATION TO VISCOSE SPINNING 67-07 M14-73832
RESISTIVITY EXAMINATION OF ARTIFICIAL AGEING IN AN ALUMINIUM-COPPER-CADMIUM ALLOY
67-07 M15-72814
PHOTOCONDUCTIVE EFFECT OF ZNO-CU CRYSTALS
67-07 M16-73324
SEMICONDUCTOR-TO-METAL TRANSITION IN V2O3
67-07 M16-73946
THE POSITION ENERGY AND ACTIVATION ENERGY OF DIFFUSION OF INTERSTITIAL IMPURITIES
67-08 M14-75077
DIFFUSION OF NICKEL IN SILICON 67-08 M14-75221
INVESTIGATION OF THE KINETICS OF THE SOLUBILITY OF HYDROGEN IN FE, NI, CO AND CU
67-08 M14-75662
OXYGEN DIFFUSION IN MELTED IRON
67-08 M14-75869
SPECTRAL RESPONSE OF PHOTOSENSITIVITY --SRPS-- IN BORON 67-08 M15-75252
EXPERIMENTAL STUDY ON THE OUT-DIFFUSION OF SB FROM GE AND ITS APPLICATION TO TRANSISTORS
67-08 M16-74606
STUDYING THE ANOMALY OF THE TENSILE CHARACTERISTICS OF METALS AND ALLOYS 67-08 M17-74585
ON SUBSTITUTIONAL RELAXATIONS IN AN IRON-22.5 PER CENT CHROMIUM ALLOY 67-08 M17-75583
TEMPERATURE AND RATE DEPENDENCE OF STRAIN RESISTANCE OF NI-AU ALLOYS 67-08 M17-75880
CARBURIZATION EQUILIBRIA OF ALPHA-IRON WITH METHANE-HYDROGEN MIXTURES IN THE RANGE 600 TO 800 C. AND THEIR THERMODYNAMIC EVALUATION
67-09 M10-77076
THE WIDTHS OF GLISSILE EXTENDED DISLOCATIONS IN ANISOTROPIC FACE-CENTERED CUBIC CRYSTALS
67-09 M13-76588
DEFORMATION TWINNING IN NI AND FCC FE-NI ALLOYS
67-09 M13-76596
EPITAXIAL GROWTH OF GERMANIUM ON SINGLE CRYSTAL SPINEL 67-09 M14-77898
DYNAMIC STRAIN AGING OF ALPHA-COPPER-TIN-ALLOYS
67-09 M17-76792
THE DIFFUSION OF S IN AG 67-10 M14-79585
NEON DIFFUSION IN SILVER 67-10 M14-79597
A CONTRIBUTION TO THE STUDY OF THE DIFFUSION OF S IN HIGH-PURITY CU 67-10 M14-79709
DIFFUSION IN THE FE-NI SYSTEM 67-10 M14-79710
ENERGY OF MOTION OF VACANCIES IN TUNGSTEN
67-10 M16-79151
EFFECT OF IMPURITIES ON THE ANNEALING BEHAVIOR OF IRRADIATED SILICON 67-10 M16-79154
THE EFFECT OF OXYGEN AND CARBON ON THE CREEP STRENGTH OF NIOBIUM 67-10 M17-78449
GRAIN BOUNDARY DIFFUSION IN TUNGSTEN
67-11 M14-81346
DIFFUSIONAL PROPERTIES OF THE STAGE-3 DEFECT IN COPPER. PT. 3. BULK DIFFUSION
67-11 M16-81082
AN INTERPRETATION OF THE EFFECTS OF STRESS AND TEMPERATURE ON THE CREEP PROPERTIES OF A NICKEL-BASE SUPERALLOY 67-11 M17-80103
GRAIN-BOUNDARY DAMPING IN 16 AND 22.5 PER CENT CHROMIUM-IRON ALLOYS 67-11 M17-80108
A NEW FORMULA FOR THE EXTRAPOLATION OF CREEP TEST RESULTS--AN EXAMPLE OF ITS APPLICATION TO A CR-MO-V STEEL 67-11 M17-80253
RELATION BETWEEN THE DIFFUSION AND CREEP PROPERTIES OF METAL COMPOUNDS 67-11 M17-81424
X-RAY STUDY OF COLD WORKED SILVER-ANTIMONY ALLOYS EFFECTS DUE TO EXTRINSIC STACKING FAULTS
67-12 M13-82586
A NOTE ON NICKEL DIFFUSION IN COPPER
67-12 M14-82018
STRUCTURAL DEPENDENCE OF THE TRACER-LEVEL DIFFUSION OF THORIUM IN PYROLYTIC CARBONS
67-12 M14-82370
NMR MEASUREMENT OF THE DIFFUSION COEFFICIENT OF PURE ALUMINUM 67-12 M14-83016
ANNEALING SPECTRUM OF ELECTRON-IRRADIATED NIOBIUM AND TANTALUM FROM 13 TO 301 K
67-12 M16-82525
THE ENERGY CHARACTERISTICS OF IMPEDED FRACTURE OF HARDENED STEEL 67-12 M17-82125
DISLOCATION PINNING AND TEMPERATURE DEPENDENCE OF INTERNAL FRICTION 67-12 M17-82367
DEFORMATION CHARACTERISTICS OF POLYCRYSTALLINE THORIUM FROM 78 TO 473 K 67-12 M17-82560
INFLUENCE OF OXYGEN PRESSURE ON THE PROCESS OF REACTION OF NICKEL WITH THIS GAS AT HIGH TEMPERATURES 67-12 M18-81811
EFFECT OF SILICON ON THE STACKING FAULT ENERGY OF 18 PER CENT CR-10 PER CENT NI STAINLESS STEEL
67-12 M18-82590

FREE ENERGY OF ACTIVATION, ALLOYING EFFECTS
DETERMINATION OF THE STACKING FAULT ENERGY OF ALLOYS BY THE NODE AND TAU3 METHODS
67-06 M13-71664

FREE ENERGY OF ACTIVATION, PRESSURE EFFECTS
INFLUENCE OF UNIAXIAL COMPRESSION ON THE JUMP CONDUCTIVITY IN P-SI 67-06 M16-71925

FREE ENERGY OF ACTIVATION, TEMPERATURE EFFECTS
THE TEMPERATURE DEPENDENCE OF THE SURFACE ENERGY ANISOTROPY OF PLATINUM 67-03 M15-65808
APPARENT ACTIVATION ENERGIES FOR THE CREEP OF TECHNICAL VANADIUM BETWEEN 500 AND 800 C
67-12 M17-82233

FREE ENERGY OF DISSOCIATION
SEE FREE ENERGY OF FORMATION

FREE ENERGY OF FORMATION
THE FREE ENERGY OF FORMATION OF PALLADIUM OXIDE
67-03 M14-65426
FREE ENERGY OF FORMATION OF CUPRIC OXIDE
67-03 M18-65421
STUDIES OF THE ELECTRICAL PROPERTIES OF URANIUM OXIDES. PT. 3. THERMOELECTRIC POWER OF ALPHA-U3O8
67-05 M15-69772
THERMODYNAMIC PROPERTIES 67-07 M15-73663
DEPARTURES FROM LINEARITY IN ARRHENIUS PLOTS OF VACANCY CONCENTRATION 67-07 M15-73912
THERMODYNAMICS OF PBO AND PBO-SIO2 MELTS
67-08 M15-76061
MASS SPECTROMETRIC STUDIES AT HIGH TEMPERATURES. PT. 16. SUBLIMATION PRESSURES FOR TIF3 AND THE STABILITIES OF TIF2 --G-- AND TIF --G--
67-11 M15-80699
SOLUTE-VACANCY INTERACTION IN AGE-HARDENING ALLOYS
67-11 M15-81122
ACTIVITIES OF CHROMIUM AND TITANIUM IN BINARY CHROMIUM-TITANIUM ALLOYS 67-11 M15-81340
A THERMODYNAMIC INVESTIGATION OF THE COMPOUNDS, IN3SBTE2, INSB, AND INTE 67-11 M15-81348
GASEOUS INTERMETALLIC MOLECULES
67-11 M16-81116
PHASE RELATIONS AND THERMODYNAMIC PROPERTIES FOR THE SAMARIUM-ZINC SYSTEM 67-12 M13-82577
THE FREE ENERGIES OF FORMATION OF CRS, MO2S3, AND WS2 67-12 M15-82572
THERMODYNAMIC PROPERTIES OF THE CALCIUM-ZINC SYSTEM 67-12 M15-82575
THERMODYNAMICS OF FORMATION OF BINARY RARE EARTH-MAGNESIUM PHASES WITH CSCL-TYPE STRUCTURES
67-12 M15-82848

FREE ENERGY OF REACTION
RATE OF DISSOLUTION OF SODIUM HYDROALUMOSILICATE IN ALKALINE SOLUTIONS 67-02 M02-61282
KINETICS OF NEAR-EQUILIBRIUM REDUCTION OF WUSTITE
67-03 M14-65082

FREE ENERGY OF TRANSFORMATION
A CORRELATION OF THERMODYNAMIC VARIABLES FOR IRON-RICH IRON-NICKEL-CARBON ALLOYS
67-12 M15-82959

FREE MACHINING STEELS
SEE ALSO LEADED STEELS
RESULFURIZED STEELS
WHY NOT TELLURIUM STEELS 67-02 M01-59031

CONSOLIDATED METHOD OF CALCULATING PRODUCTION COSTS FOR GRAVITY DIECASTINGS 67-02 M17-61903
ELASTUF-PB --HEAT TREATED LEADED ALLOY STEEL-- 67-11 M01-81253

FREE MACHINING STEELS, CASTING
CONTINUOUS CASTING OF FREE-CUTTING STEELS 67-05 M01-69074
B.H.P. NEW CASTLE INGOT PRODUCTION BY BOTTOM PORUING 67-08 M04-76192

FREE MACHINING STEELS, CHEMICAL ANALYSIS
ELECTRON PROBE MICROANALYSIS 67-03 M13-65825

FREE MACHINING STEELS, CORROSION
SOAKING HALTS STAINLESS RUST 67-04 M12-68115

FREE MACHINING STEELS, CRYSTAL LATTICES
SELENIDE-SULFIDE INCLUSIONS AND SYNTHETIC COMPOUNDS OF THE --MN, ME-- --S, SE---TYPE 67-08 M14-75811

FREE MACHINING STEELS, HEAT TREATMENT
MATERIALS AND HEAT TREATMENT 67-11 M10-81496

FREE MACHINING STEELS, MACHINABILITY
MACHINABILITY OF STEEL WITH ADDITIONS OF SELENIUM AND LEAD 67-02 M08-61300

FREE MACHINING STEELS, MACHINING
CARBIDES FOR SCREW MACHINES. TESTS ON FREE-CUTTING STEELS. PT. 1 67-05 M18-69797
FREE-MACHINING STAINLESS STEELS UP SCREW MACHINE PRODUCTIVITY 67-06 M08-70237
CARBIDES FOR SCREW MACHINES--TESTS ON FREE-CUTTING STEELS. PT. 2 67-07 M08-72744
THE TECHNOLOGY OF HIGH-SPEED STEELS. PT. 3. SPECIAL GRADES, DIMENSIONALLY STABLE AND SULFURIZED HIGH-SPEED STEEL 67-10 M07-79957
TURNING WITH CARBIDE TOOLS ON SINGLE SPINDLE AUTOMATIC LATHES 67-11 M08-80397

FREE MACHINING STEELS, MECHANICAL PROPERTIES
EXTENSION OF THE BORING-OUT METHOD FOR THE DETERMINATION OF RESIDUAL STRESSES 67-01 M17-58559
EFFECT OF LOAD CYCLING BELOW THE FATIGUE LIMIT ON THE MECHANICAL PROPERTIES OF CARBON STEEL 67-04 M17-66950
PLASTIC TORSION 67-04 M17-67611
INCUT 4140 --FREE-CUTTING ALLOY STEEL-- 67-08 M01-75683
A MEASUREMENT OF THE MACHINABILITY OF FREE-MACHINING STEELS THROUGH THE USE OF RADIOACTIVE CUTTING TOOLS 67-08 M08-75643
THE ROLLING FATIGUE PROPERTIES OF CASE-HARDENING ALLOY STEELS WITH OR WITHOUT LEAD ADDITION 67-08 M17-75753
EFFECT OF MICRO-VOIDS AND MANGANESE SULPHIDE INCLUSIONS IN STEEL ON HYDROGEN EVOLUTION AND EMBRITTLEMENT 67-09 M17-78154
FREE-MACHINING RESULFURIZED CARBON STEELS-- INVESTIGATION OF MACHINABILITY AND BRITTLENESS OF DRAWN PRODUCTS 67-10 M17-78675

FREE MACHINING STEELS, MELTING
EFFECTIVE SELENIUM ALLOYING TECHNIQUE FOR CONVENTIONAL STEEL PRACTICE 67-10 M04-80084

FREE MACHINING STEELS, METAL WORKING
MACHINING AND HEADING--SELECTION OF STAINLESS STEEL GRADES 67-09 M08-77100
STAINLESS STEELS 67-09 M08-77819

FREE MACHINING STEELS, METALLOGRAPHY
NEW METALLOGRAPHIC REAGENT FOR IRON, CARBON-ALLOY, AND TOOL STEELS 67-11 M13-81142

FREE MACHINING STEELS, REACTIONS /CHEMICAL/
SULPHUR POTENTIALS IN IRON AND IN IRON-MANGANESE ALLOYS 67-06 M14-70805

FREE MACHINING STEELS, ROLLING
ROLLING OF AUTOMATIC STEELS CONTAINING SULFUR 67-12 M07-83454

FREE MACHINING STEELS, WELDING
ON THE WELDING OF STEELS WITH LIMITED WELDABILITY. EXAMPLES FOR MATERIALS PROBLEMS 67-01 M11-58114

FREE MACHINING STEELS, X RAY ANALYSIS
EXPERIMENTS ON THE FORMATION OF SULFIDE INCLUSIONS IN STEEL. PT. 1. A STUDY OF INCLUSIONS IN FREE-CUTTING STEEL 67-07 M13-72494

FREEZING
A QUANTITATIVE APPROACH TO CASTING SOLIDIFICATION-- FREEZING OF CAST IRON 67-04 M14-66940

FREEZING POINTS
SEE MELTING POINTS

FREIGHT CARS, MECHANICAL PROPERTIES
ANALYSIS OF RESIDUAL, THERMAL, AND LOADING STRESSES IN A B33 WHEEL AND THEIR RELATIONSHIP TO FATIGUE DAMAGE 67-09 M17-76460

FRENKEL DEFECTS
STORED ENERGY, VOLUME, AND RESISTIVITY CHANGE IN NEUTRON IRRADIATED ALUMINIUM 67-02 M15-61515
RESISTOMETRIC MEASUREMENTS ON MOLYBDENUM IRRADIATED WITH 2.5 MEV ELECTRONS 67-04 M16-66531
CHANGES IN LATTICE PARAMETERS OF NEUTRON-IRRADIATED ALUMINUM 67-09 M14-77834
ON THE NATURE OF DAMAGES IN INDIUM ANTIMONIDE PRODUCED BY GAMMA- AND X-IRRADIATION 67-12 M16-82019

FRENKEL DEFECTS, RADIATION EFFECTS
THE INTERPRETATION OF RECOVERY STAGES IN IRRADIATED METALS 67-02 M14-61520
FISSION DAMAGE IN METALS 67-04 M13-67320
POINT-DEFECT STUDIES IN PLATINUM BY ELECTRON IRRADIATION AT LOW TEMPERATURES. PT. 1. DEFECT PRODUCTION 67-06 M14-69914
THE AMORPHISM IN POLYCRYSTALLINE GERMANIUM FILMS RESULTING FROM IRRADIATION WITH ARGON IONS 67-09 M16-76772

FREONS, CORROSION
THE EFFECTS OF FREON-22 ON CERTAIN ALUMINUM ALLOYS AND NONMETALLIC SUBSTANCES 67-09 M18-76563

FREONS, SEPARATORS
DEGASSING ABILITY OF FREON 12 --CCL2F2-- AND NITROGEN-FREON 12 GAS MIXTURE. PT. 2. STUDIES ON DEGASSING MEDIUM FOR ALUMINUM 67-06 M06-71214

FREQUENCIES
SEE RADIOFREQUENCY
RESONANT FREQUENCY

FRETTING
SEE ALSO FRETTING CORROSION
RESEARCH IN THE FIELD OF METAL FATIGUE 67-02 M17-59727

FRETTING CORROSION
SURFACE COLD ROLLING OF MARINE PROPELLER SHAFTS 67-02 M18-60720
FRETTING CORROSION OF METALS 67-05 M18-69147
CHARACTERISTICS OF FATIGUE DIAGRAMS IN CONDITIONS OF FRETTING CORROSION 67-11 M17-80584

FRICTION
SEE ALSO ROLLING FRICTION
SLIDING FRICTION
ANTIFRICTION PROPERTIES OF IRON-BASE POWDERED-METAL MATERIALS 67-01 M09-57668
THE MECHANISM OF ROLLING FRICTION BETWEEN TWO STEEL BALLS IN THE CASE OF LOW LOADS 67-01 M17-57206
THE EFFECT OF SLIDING SPEED ON THE RATE OF WEAR OF SAPPHIRE ON STEEL 67-01 M17-57207
MECHANICAL DISRUPTION OF SURFACE FILMS ON METALS 67-01 M17-57208
PROCESSES OF FRICTION AND WEAR AT DIFFERENT CONTENTS OF OXYGEN IN THE ZONE OF CONTACT 67-01 M17-57692
STUDY ON THE SEIZURE PHENOMENA IN FRICTION OF METAL 67-01 M17-58547
CONTACT AND INTERLAYER STRESSES IN BIMETALS DURING UPSETTING 67-02 M07-60673
INVESTIGATION OF FERROUS ANTIFRICTION POWDER COMPOSITES 67-02 M09-59678
INVESTIGATION OF ANTIFRICTION PROPERTIES OF SEALING COMPOSITE MATERIALS. PT. 2 67-02 M09-60182
A METHOD OF STUDYING SPECIFIC FRICTION FORCES AND PRESSURES IN THE ROLLING OF METAL POWDERS 67-02 M09-60574
STUDY OF DRY FRICTION OF CERTAIN POWDER COMPOSITES AT HIGH RATES OF SLIP 67-02 M09-60895
ANTIFRICTION PROPERTIES OF IRON-BASE SINTERED MATERIALS AT DRY FRICTION 67-02 M09-60977
ANTIFRICTION PROPERTIES OF BORON NITRIDE DURING DRY FRICTION IN A GASEOUS MEDIUM AND AT LOW TEMPERATURES 67-02 M09-61708
FRICTIONAL WEAR IN FCC METAL SINGLE CRYSTALS 67-02 M14-60142
SELECTION OF LUBRICATION OILS FOR IRON-GRAPHITE SLIDING BEARINGS 67-02 M17-62129
THE COEFFICIENT OF FRICTION IN COLD ROLLING 67-03 M07-65938
COMMENTS ON THE FRICTIONAL STRESS OF MOVING DISLOCATIONS 67-04 M17-66070
THE RELATIONSHIP BETWEEN BASIC MODES OF WEAR AND EXPERIENCE IN ENGINEERING PRACTICE 67-04 M17-66292
PROBLEMS OF WEAR OF FUNCTIONAL SURFACES OF MINIATURE MECHANICAL PARTS 67-04 M17-68021
PROSPECTS FOR MANUFACTURING OF GAS TURBINE SEALS WITH CONSIDERATIONS OF PHYSICAL AND CHEMICAL

FACTORS 67-05 M09-69020
POWDERED-METAL FRICTION MATERIAL 67-05 M09-69057
HOW EXTERNAL FRICTION AFFECTS METAL POWDER COMPACTION 67-05 M09-69304
STUDY ON THE WEAR OF CASTING AL ALLOYS. PT. 2. ON THE FRICTIONAL CHARACTERISTICS 67-05 M17-68889
SELF-LUBRICATING COMPOSITES OF POROUS NICKEL AND NICKEL-CHROMIUM ALLOY IMPREGNATED WITH BARIUM FLUORIDE-CALCIUM FLUORIDE EUTECTIC 67-05 M17-68941
FRICTION AND WEAR TESTING UNDER HIGH TEMPERATURE OF CAST AND OTHER METALS 67-05 M17-68953
ANTIFRICTION PROPERTIES OF SOME STRUCTURAL MATERIALS 67-05 M17-69015
SNAP 8 REACTOR BEARING DEVELOPMENT 67-05 M20-68940
WEAR CONSIDERATIONS IN DESIGN 67-06 M17-70698
DEPENDENCE OF THE COEFFICIENT OF FRICTION AND WEAR RESISTANCE OF COPPER-BEARING MODIFIED CAST IRONS ON MECHANICAL PROPERTIES 67-06 M17-70729
TEMPERATURE AND FRICTIONAL COEFFICIENT AT HIGH RATES OF SLIP 67-06 M17-71367
MECHANICS OF PROCESSING 67-07 M07-72747
ON THE PROBLEM OF CONTACT FRICTION IN THE DEFORMATION ZONE IN VIBRO-DRAWING 67-07 M07-73007
EXAMPLES FOR THE APPLICATION OF A METHOD OF CALCULATION OF ROLLING CHARACTERISTICS 67-07 M07-73226
PURPOSES AND ATTRIBUTES OF METALWORKING LUBRICANTS 67-07 M08-73692
THE COMPACTION OF METAL POWDERS 67-07 M09-73859
ELECTROLESS NICKEL DEPOSITED AT CONTROLLED PH--MECHANICAL PROPERTIES AS A FUNCTION OF PHOSPHORUS CONTENT 67-07 M12-74122
ANTIFRICTION AND MECHANICAL PROPERTIES OF TAVEN, A NEW ANTIFRICTION CAST IRON 67-07 M17-73033
FRICTIONAL BEHAVIOR OF LABYRINTH SEAL AND SHROUD MATERIALS IN STEAM AND GAS TURBINES 67-07 M17-74056
FRICTION AND WEAR OF UNLUBRICATED STEEL SURFACES AT SPEEDS UP TO 655 FT/SEC. 67-07 M17-74088
STREAMLINED WIRE DRAWING DIES OF MINIMUM LENGTH 67-08 M07-75780
METAL TRANSFER AND BUILD UP IN FRICTION AND CUTTING 67-08 M08-76058
IMPROVING THE WEAR RESISTANCE OF PISTON RINGS BY PLASMA METALLIZING 67-08 M12-75429
FIGHT AGAINST WEAR STARTS WITH MATERIAL SELECTION 67-08 M17-74488
WIRE-WOOL TYPE BEARING FAILURES..THE FORMATION OF THE WIRE WOOL 67-08 M17-74798
INVESTIGATION OF FRICTIONAL POWDER COMPOSITES FOR OPERATION IN OIL MEDIUM 67-08 M17-74909
DEVICE AND METHOD FOR INVESTIGATION OF THE ANTIFRICTION PROPERTIES OF SOLID LUBRICANTS 67-08 M17-75439
THE EFFECTS OF SURFACE ROUGHNESS IN THE HYDRODYNAMIC LUBRICATION THEORY OF A SHORT JOURNAL BEARING 67-08 M17-75543
RADIOTRACER METHOD FOR INVESTIGATION OF ANTIWEAR PROPERTIES OF LUBRICATING OIL ADDITIVES UNDER CONDITIONS OF ELECTRO-EROSIVE WEAR 67-08 M17-75544
ANTIFRICTION PROPERTIES OF SOME COMPOSITE SINTERED PACKING MATERIALS. PT. 2 67-09 M09-76915
WEAR OF METALS IN SUCROSE SOLUTIONS 67-09 M17-76438
FRICTION IN VACUUM CONDITIONS 67-09 M17-76439
THE CONTRIBUTION OF A METALLURGIST TO TRIBOLOGY 67-09 M17-77231
THE APPLICABILITY OF THE BINOMIAL LAW TO THE PROCESS OF FRICTION IN THE CUTTING OF METALS 67-10 M08-79108
POWDERED-METAL FRICTION ALLOY 67-10 M09-79809
COLD WELDING TENDENCIES AND FRICTIONAL STUDIES OF CLEAN METALS IN ULTRA-HIGH VACUUM 67-10 M11-78553
THE USE OF SPRAY COATING WITH ALUMINUM-COPPER PSEUDOALLOYS FOR SLIDING FRICTION BEARINGS 67-10 M12-78370
THE WEAR RESISTANCE OF CHROMIUM-SILICON-MANGANESE STEEL WHEN EXPOSED TO BOUNDARY FRICTION AND HIGH SPECIFIC LOADS 67-10 M17-78952
FRICTION AND WEAR PROPERTIES OF RHENIUM 67-10 M17-79111
THE INVESTIGATION OF THE IMPORTANCE OF FRICTION IN MASSIVE DEFORMATION IN RING UPSETTING TESTS 67-10 M17-79180
FRICTION WEAR TESTING OF ANTIFRICTION COATINGS AT UP TO 600 C. IN VACUUM AND INERT GASES 67-10 M17-79207
A METAL-PLASTIC ANTIFRICTION MATERIAL FOR THE MANUFACTURE OF COMPOSITE BUSHINGS OPERATING UNDER DRY FRICTION CONDITIONS 67-11 M09-80890
INFLUENCE OF SULFIDIZING ON FRICTION AND WEAR OF IRON-GRAPHITE MATERIALS 67-11 M17-80588
THE INFLUENCE OF VAPORS OF ORGANIC LIQUIDS AND OF STEAM ON THE SLIDING FRICTION SYSTEM OF MOS2 STEEL 67-11 M17-80868
EFFECT OF CASTING WALL THICKNESS ON THE STRUCTURE OF ANTIMONOUS CAST IRONS 67-12 M06-82622
FRICTION DURING HIGH-SPEED COLD ROLLING OF METALS WITH VARIOUS LUBRICANTS 67-12 M07-81715
ANTIFRICTION IRON-BASE POWDER METALLURGY PARTS FOR HEAVY DUTY PERFORMANCE 67-12 M09-83558
THE RANGE OF RATIONAL APPLICATION OF POLYMERS AS ANTIFRICTION MATERIALS AND THE MECHANISM OF THEIR SELF-LUBRICATING ACTION 67-12 M17-82194
A STUDY OF THE ANTIFRICTION PROPERTIES OF COMPOSITE METAL/POLYMER MATERIALS IN A VACUUM AND IN CERTAIN GAS ATMOSPHERES 67-12 M17-82195
ELASTIC DEFORMATION OF RUBBING SURFACES 67-12 M17-82434
WEAR OF ENGINEERING MATERIALS 67-12 M17-82915
FACTORS OF THE ANTIFRICTION PROPERTIES OF GRAPHITIZED STEEL 67-12 M17-83034
SHORT ENDURANCE FATIGUE OF SUPPORTED, PRESSURIZED THIN SHELLS 67-12 M17-83241
TIN AGAINST FRICTION AND WEAR 67-12 M20-81733

FRICTION, ALLOYING EFFECTS
THE EFFECT OF CERTAIN ADDITIVES ON THE WEAR RESISTANCE OF FRICTIONAL POWDER COMPOSITES 67-08 M17-74910

FRICTION, ROLLING
REASONS FOR THE EFFECT OF THE ROLLING SPEED ON THE COEFFICIENT OF FRICTION DURING COLD ROLLING WITH LIQUID LUBRICANTS 67-09 M07-77759

FRICTION, TEMPERATURE EFFECTS
ANTIFRICTION PROPERTIES OF BORON NITRIDE DURING DRY FRICTION IN GASEOUS MEDIA AND AT LOW TEMPERATURES 67-08 M17-75853
THE EFFECT OF HOT-SPOT TEMPERATURES ON THE UNLUBRICATED WEAR OF STEEL 67-10 M17-78554

FRICTION, VIBRATION
VIBRATION REDUCES METAL TO METAL CONTACT AND CAUSES AN APPARENT REDUCTION IN FRICTION 67-10 M17-78555

FRICTION FACTOR
IMPROVING FRICTIONAL BEHAVIOR WITH SOLID FILM LUBRICANTS 67-03 M05-65432
A FRICTION AND WEAR STUDY OF HADFIELD MANGANESE STEEL 67-03 M17-65599
MOLYBDENUM DISULPHIDE DEPOSITS--THEIR FORMATION AND CHARACTERISTICS ON STEEL BALLS 67-03 M17-65600
RESEARCH IN THE FIELD OF OIL-IMPREGNATED, POROUS BRONZE BEARINGS 67-04 M20-67211
SIMULTANEOUS DETERMINATION OF FRICTION, COMPRESSION DEFORMATION, AND THE TRUE AREA OF CONTACT OF POWDER MATERIALS 67-05 M17-69635
FRETTING CORROSION OF METALS 67-05 M18-69147

FRICTION WELDING
INFLUENCE OF OPERATING PARAMETERS ON POWER AND HEATING OF CORES IN FRICTION WELDING 67-01 M11-57370
FRICTION WELDING OF DRILLING RODS 67-01 M11-57377
NEW WAYS TO UNITE METALS 67-02 M11-59147
EXPERIENCE OF PRODUCING NEW WELDING EQUIPMENT 67-02 M11-60193
DEPOSITION OF METAL ON THE WORKING SURFACES OF MACHINE TOOL COMPONENTS 67-02 M11-61063
FUNDAMENTALS OF FRICTION WELDING 67-04 M11-66709
NEW SOLID-STATE WELDING PROCESS 67-05 M11-68478
INERTIA WELDING DISSIMILAR METALS 67-05 M11-68603
FRICTION WELDING OF MOTOR DISTRIBUTOR CAMS 67-05 M11-69413
POSSIBILITIES FOR FRICTION WELDING DURING REPAIR OF AGRICULTURAL MACHINERY 67-06 M11-70159

FATIGUE STRENGTH OF FRICTION WELDED JOINTS
67-06 M11-71847
FRICTION WELDING AS AN ECONOMICAL METHOD OF PRODUCTION 67-06 M11-72058
THE FRICTION WELDING OF METALS--MACHINES AND APPLICATIONS 67-06 M11-72189
INERTIA WELDING HITS METALWORKING MARKET
67-07 M11-73310
FRICTION WELDING 67-08 M11-75557
THERMAL AND MECHANICAL CHARACTERISTICS OF FRICTION WELDING MILD STEEL 67-09 M11-76654
INERTIA WELDING DISSIMILAR METALS
67-09 M11-77949
DESIGN AND TESTING OF DISSIMILAR METAL TRANSITION JOINTS EMPLOYING ROLL-BONDED AND FRICTION-WELDED COMPONENTS 67-10 M11-78493
THE FRICTION WELDING OF PUSH RODS FOR SMD ENGINES
67-10 M11-78517
FLYWHEEL FRICTION WELDING AS A DESIGN AND PRODUCTION TOOL 67-10 M11-79196
THE FATIGUE STRENGTH OF FRICTION WELDED JOINTS
67-11 M11-80879
INVESTIGATION OF THE PROCESS OF FRICTION DEPOSITION OF BRONZE ONTO STEEL 67-12 M12-82629
INCREASING THE FATIGUE LIMIT OF FRICTION-WELDED JOINTS 67-12 M17-81915

FRICTION WELDING, SIZE EFFECTS
FRICTION WELDING. PT. 10. WELDING OF SMALL ROUND BARS 67-08 M11-75304

FRITTING
PREPARATION OF PURE ZIRCONYL COMPOUNDS FROM ZIRCON CAUSTIC FRIT 67-07 M02-73823

FUEL
SEE FUELS

FUEL CELLS
ELECTROCHEMICAL PROPERTIES OF A NICKEL DSK ELECTRODE 67-10 M15-78483

FUEL CELLS, MATERIALS
CARBON ELECTRODES FOR FUEL CELLS
67-05 M09-68926

FUEL CONSUMPTION
BLOWING OPENHEARTH FURNACE BATHS WITH LOW-CONCENTRATION OXYGEN 67-02 M04-61955
HEAT CONSUMPTION FOR REDUCTION ROASTING OF IRON ORES 67-03 M02-65955
THE REDUCING FUNCTION OF GASES IN A BLAST FURNACE OPERATING ON FLUXED SINTER AND NATURAL GAS
67-04 M04-67602
OPTIMUM CONSUMPTION OF NATURAL GAS IN BLAST FURNACE MELTING 67-04 M04-67603
COMBUSTION PROCESS IN A BLAST FURNACE DURING NATURAL GAS BLOWING 67-04 M04-67604
LANCING OPEN-HEARTH FURNACE BATHS WITH LOW CONCENTRATION OXYGEN 67-04 M04-67773
STUDY OF REDUCTION OF FUEL CONSUMPTION IN BLAST FURNACES RESULTING FROM USE OF SPONGE IRON
67-04 M04-68144
HEAT WORK OF A REVERBERATORY FURNACE USING PREHEATED AIR BLAST 67-05 M03-69530
BLAST FURNACE TRIALS WITH A HIGH OXYGEN CONTENT IN THE BLAST 67-05 M04-69084
CHARACTERISTICS OF CHARGING AND HEATING PERIODS DURING INTENSIVE OXYGEN BLOWING OF METAL BATH
67-05 M04-69507
HEAT ABSORPTION OF POOL AND THERMAL EFFICIENCY OF HIGH-CAPACITY OPENHEARTH FURNACE
67-06 M04-71267
FUEL INJECTION INTO THE BLAST FURNACE
67-06 M04-71326
FUEL CONSUMPTION DURING NONSCALE HEATING OF STEELS
67-06 M10-70478
DEVELOPMENT AND TESTING OF AN OIL-OXYGEN BURNERS IN OPENHEARTH FURNACES 67-07 M04-74105
HOW BATCH MAKE-UP AFFECTS FUEL USAGE IN SINTERING
67-08 M02-74886
A NEW APPROACH TO BULK MELTING OF ALUMINUM
67-08 M03-74651
BLAST FURNACE PERFORMANCE USING HIGH-ASH COKE
67-08 M04-74452
SOME RECENT DEVELOPMENTS IN THE FIRING OF BLAST FURNACE STOVES 67-08 M04-74467
ON THE OPTIMUM FREQUENCY OF REVERSING THE CONE OF AN OPENHEARTH FURNACE 67-08 M04-74594
SUPPLEMENTARY OIL-FIRING OF A COLD-BLAST CUPOLA
67-08 M04-74800
THEORETICAL CONSIDERATION ON BLAST FURNACE COKE RATE 67-08 M04-75152
NEW PROCESS FOR IRON PRODUCTION IN A REACTOR
67-08 M04-75398
HEAT ABSORBTION BY THE BATH AND THERMAL EFFICIENCY OF VERY LARGE OPENHEARTH FURNACES
67-08 M04-75736
BLAST FURNACE PRODUCTION USING COAL-PETROLEUM OIL FUEL 67-08 M04-76262
CATALYTIC OXIDATION OF FUMES RECOVERS OVEN HEAT IN CONTINUOUS BAKING OF COATED ALUMINUM STRIP
67-08 M10-75499
INFLUENCE OF THE PRINCIPAL SINTERING PARAMETERS ON SIDELORS PLANT IN ROMBAS 67-09 M02-77838
THE BLOWING OF HEAVY HEATING OIL INTO THE BLAST FURNACE 67-10 M04-78650
OIL ADDITIONS TO THE BLAST IN BLAST FURNACES OF THE VEB --PEOPLE-OWNED ENTERPRISE-- MAXHUTTE-- RESULTS OF ONE YEARS OPERATION
67-10 M04-78651
DEVELOPMENT OF BLAST-FURNACE OPERATING TECHNOLOGY USING A COAL/FUEL-OIL FUEL 67-10 M04-79255

FUEL ECONOMY
SEE FUEL CONSUMPTION

FUEL ELEMENTS
INFLUENCE OF MANUFACTURING PARAMETERS ON THE QUALITY OF FUEL ELEMENTS CONTAINING PLUTONIUM
67-01 M05-58542
REFRACTORY CORES FOR ANNULAR PELLET NUCLEAR FUEL ELEMENTS 67-03 M16-65622
EXPANDABILITY TEST ON BERYLLIUM TUBE TO BE USED FOR FUEL CLADDING OF NUCLEAR POWER REACTORS
67-05 M17-69883
THE PRODUCTION OF SPHERICAL FUEL PARTICLES FROM AQUEOUS METAL-SALT SOLUTIONS 67-06 M05-70575
STAINLESS STEEL FUEL PIN CLADDING
67-09 M20-77548
THE PROMISE OF PLUTONIUM 67-10 M01-79375
INVESTIGATION OF URANIUM-PLUTONIUM-TITANIUM-CARBON COMPOUNDS 67-11 M20-80150
THE TECHNOLOGY OF COEXTRUSION IN PRODUCING URANIUM-ZIRCALOY TUBULAR FUEL ELEMENTS
67-12 M07-82806
THE EFFECT OF PREFERRED ORIENTATION ON THE MECHANICAL PROPERTIES AND DEFORMATION BEHAVIOR OF ZIRCALOY-2 FUEL SHEATHING 67-12 M17-82571
STUDY ON AL203 DISPERSION HARDENED ALUMINUM USED FOR NUCLEAR APPLICATIONS 67-12 M20-82809
MANUFACTURE OF PLATE FUEL ELEMENTS FOR RESEARCH REACTORS 67-12 M20-82810
ALUMINUM AND MAGNESIUM IN REACTOR METALLURGY
67-12 M20-83144
FABRICATION AND MATERIAL TESTING OF THE FUEL ELEMENTS FOR THE ADVANCED PRESSURIZED-WATER REACTOR OF THE NUCLEAR RESEARCH SHIP, OTTO HAHN
67-12 M20-83278

FUEL ELEMENTS, BONDING
PRESSURE BONDING 67-11 M11-80479

FUEL ELEMENTS, BRAZING
DIFFUSION BRAZING IN STAINLESS STEEL FUEL ELEMENTS FOR WATER COOLED POWER REACTORS
67-07 M11-73900

FUEL ELEMENTS, CANS
THE EFFECT OF FABRICATION VARIABLES ON GRAIN SIZE OF MAGNOX AL80 FUEL CANS 67-02 M13-60231

FUEL ELEMENTS, CASTING
PRODUCTION OF TUBES OF METALLIC URANIUM
67-01 M06-57166

FUEL ELEMENTS, CERMETS
PILOT PLANT DEVELOPMENT OF AN ELECTROLYTIC DISSOLVER FOR STAINLESS STEEL ALLOY NUCLEAR FUELS
67-06 M16-71019

FUEL ELEMENTS, CHEMICAL ANALYSIS
PRESENT STATE OF THE CHEMICAL ANALYSIS OF NUCLEAR FUELS AND REACTOR MATERIALS IN JAPAN
67-08 M19-74681

FUEL ELEMENTS, CLADDING
FABRICATION OF NUCLEAR FUELS IN INDIA
67-06 M16-71034

FUEL ELEMENTS, COATING
A MICRORADIOGRAPHIC TECHNIQUE FOR DETERMINING DENSITIES OF PYROLYTIC-CARBON COATINGS
67-02 M15-59056
CARBON-COATED CARBIDE PARTICLES FOR NUCLEAR FUEL ELEMENTS 67-02 M16-60713

FUEL ELEMENTS, COMPACTING
VIBRATORY COMPACTION OF FUSED UO2
67-05 M05-69201

FUEL ELEMENTS, CORROSION
EXAMINATION OF FUEL AND CLADDING IN PWR-1 BLANKET RODS 67-03 M18-65019
AQUEOUS CORROSION BEHAVIOR OF LIGHT ALLOYS
67-10 M18-79932

FUEL ELEMENTS

FUEL ELEMENTS, EXTRUSION
SOME COEXTRUSION EXPERIMENTS OF ALUMINIUM CLADDED CERMETALLIC CORE RODS 67-04 M07-67246
A STUDY OF THE FABRICATION OF A FUEL ELEMENT FOR THE BR-2 REACTOR BY COEXTRUSION AND DRAWING 67-09 M07-78262

FUEL ELEMENTS, IRRADIATION
IRRADIATION PROPERTIES OF HIGH ENERGY RATE PNEUMATICALLY-IMPACTED UO2-PUO FUELS 67-09 M16-76356
TREAT MELTDOWN OF IRRADIATED METALLIC FAST-REACTOR FUEL IN AN INERT ATMOSPHERE 67-10 M16-78727
THE INFLUENCE OF PYROLYTIC-CARBON CREEP ON COATED-PARTICLE FUEL PERFORMANCE 67-10 M16-78728

FUEL ELEMENTS, MATERIALS
THE FABRICATION OF CLADDING TUBES FOR NUCLEAR FUEL ELEMENTS FROM ZR ALLOYS 67-10 M01-79074
ZR PRODUCERS RESPOND TO NUCLEAR GROWTH 67-10 M20-78472

FUEL ELEMENTS, MECHANICAL PROPERTIES
THE USE OF SPHERICAL UO2 IN A CERMET FUEL PLATE 67-06 M16-71053

FUEL ELEMENTS, METAL WORKING
EXPLOSIVE METALWORKING 67-11 M08-80481

FUEL ELEMENTS, MICROSTRUCTURE
EVIDENCE FOR A HELICAL CRYSTALLOGRAPHIC TEXTURE IN URANIUM BARS OF MAGNOX CLAD FUEL ELEMENTS 67-03 M16-65854
MICROSTRUCTURE CHANGE INDUCED BY CENTER MELTING AND THE FORMATION OF CENTRAL VOIDS IN POWDER COMPACTED UO2 FUEL 67-09 M14-78222

FUEL ELEMENTS, NONDESTRUCTIVE TESTING
NONDESTRUCTIVE MATERIAL TESTING IN THE PRODUCTION OF FUEL ELEMENTS 67-02 M16-60022
NONDESTRUCTIVE EXAMINATION OF RADIOACTIVE MATERIAL USING NEUTRON RADIOGRAPHY 67-03 M19-65015
AN ULTRASONIC IMAGING LAMB-WAVE SYSTEM FOR REACTOR-FUEL-PLATE INSPECTION 67-05 M16-68801
ULTRASONIC INSPECTION OF A TUBE OF SMALL DIAMETER AND THIN WALL 67-05 M19-69481

FUEL ELEMENTS, PHYSICAL PROPERTIES
A BOOMLET IN ZIRCALOY 67-06 M20-71067

FUEL ELEMENTS, POWDER METALLURGY
VIBRATIONAL COMPACTION OF NUCLEAR FUELS 67-07 M09-74118
JOINING TECHNIQUES FOR SAP--CLAD NUCLEAR FUEL ELEMENTS 67-07 M11-73825

FUEL ELEMENTS, REACTIONS /CHEMICAL/
FUEL-WATER REACTIONS 67-09 M14-77317

FUEL ELEMENTS, WELDING
ELECTRON BEAM WELDING OF FUEL ELEMENTS FILLED WITH UO2-PUO2 67-07 M11-73467
THE WELDING OF SAP 67-07 M11-73468
TWO WAYS TO JOIN WIRE SPACERS TO REACTOR FUEL TUBES 67-10 M11-78625
INVESTIGATION OF THE WELDING OF ZIRCONIUM ALLOYS 67-12 M11-83281

FUEL INJECTION
COAL INJECTION INTO THE IRON BLAST FURNACE 67-01 M04-57502
EXPERIMENTAL BLOWING OF COAL DUST INTO HEARTH OF HIGH-CAPACITY BLAST FURNACE 67-02 M04-61952
EXPERIMENTAL INDUSTRIAL INJECTION OF COAL DUST INTO THE HEARTH OF A LARGE BLAST FURNACE 67-04 M04-67770
INJECTION OF CHARCOAL INTO BLAST FURNACES 67-04 M04-68033
TEMPERATURE CONDITIONS IN THE BLAST-FURNACE HEARTH WITH OXYGEN-ENRICHED BLAST AND NATURAL-GAS INJECTION 67-05 M04-69080
STABILIZATION OF HEAT STATE OF BLAST FURNACE DURING INJECTION OF FUEL THROUGH TUYERES 67-06 M04-70112
HIGH SCRAP CHARGE IN THE B. O. F. UTILIZING SOLID FUEL 67-06 M04-70976
FUEL INJECTION INTO THE BLAST FURNACE 67-06 M04-71326
NATURAL GAS IN THE RUSSIAN BLAST FURNACE 67-07 M04-72792
DEOXIDATION BY PNEUMATIC INJECTION OF GRAPHITE 67-07 M04-73095
IMPORTANCE OF THE BASIC OXYGEN LD PROCESS FOR STEEL FOUNDRIES. PT. 1 67-07 M04-73248
MAINTENANCE AND DESIGN TRENDS FOR MODERN BLAST FURNACES. PT. 6 67-07 M04-73842
FUEL INJECTION IMPORVES BLAST FURNACE CONTROL 67-08 M04-76182
TESTS ON THE NO. 5 BLAST FURNACE AT THE REHON, PROVIDENCE, PLANT 67-09 M04-76377
MAIN TRENDS IN THE DEVELOPMENT OF BLAST FURNACE PRACTICE 67-09 M04-76387
BLAST FURNACE OPERATION WITH NATURAL GAS INJECTION AND OXYGEN-ENRICHED BLAST 67-09 M04-76748
THE USE OF A WETTED BLAST IN MODERN-TYPE BLAST-FURNACE SMELTING 67-09 M04-76934
INJECTION OF BROWN-COAL DUST INTO A BLAST FURNACE 67-09 M04-76950
INCREASE OF HOT AIR TEMPERATURE WHEN SMELTING AN UNPREPARED BURDEN WITH ADDITION OF NATURAL GAS AND WATER VAPOR 67-09 M04-77580
MEASUREMENT OF HYDROGEN UTILIZATION IN THE BLAST FURNACE BY STEAM PULSE AND OIL INJECTION TECHNIQUES 67-10 M04-78329
THE INJECTION OF COKE OVEN GAS IN A BLAST FURNACE 67-10 M04-79695
THE EVALUATION OF COKE OVEN AND NATURAL GAS FOR INJECTION IN BLAST FURNACES 67-10 M04-79696
ACQUIRING AND INCORPORATING LIQUID FUEL BLAST FURNACE KNOW-HOW 67-10 M04-80040
BLAST FURNACE OPERATES ON FLUXED SINTER WITH COAL DUST INJECTED TO THE HEARTH 67-11 M04-81314
AUXILIARY FUELS FOR THE BLAST FURNACE 67-12 M04-83591

FUEL OIL
USE OF LIQUID FUEL FOR OPENHEARTH FURNACES 67-01 M04-58161
THE MELTING OF CAST IRON IN AN ACID-LINED HOT BLAST CUPOLA FURNACE 67-03 M06-65350
USE OF BLENDS OF OIL AND PITCH TO IMPROVE OPENHEARTH FURNACE PERFORMANCE 67-08 M04-76201

FUEL OIL, BLAST FURNACE PRACTICE
LIQUID FUEL-ASSISTED HEATING OF VANADIUM IRON IN THE BLAST FURNACE 67-10 M04-80041

FUEL OIL, COMBUSTION
PARTIAL COMBUSTION OF FUEL OIL WITH OXYGEN AND APPLICATION TO SMELTING IRON ORE 67-09 M04-76475

FUEL OXYGEN SCRAP PROCESS
THE PROBLEM OF PRODUCING MECHANICALLY HOT TOPPED STEEL 67-05 M04-69896

FUEL PARTICLES
SEE FUEL ELEMENTS

FUEL PELLETS
SEE FUEL ELEMENTS
PELLETS

FUEL PLATES
SEE FUEL ELEMENTS

FUEL RODS
SEE FUEL ELEMENTS
RODS

FUEL TANKS, CORROSION
A POSSIBLE ROLE FOR SULFATE REDUCERS IN THE CORROSION OF ALUMINUM ALLOYS 67-06 M18-71691
CORROSION PROTECTION OF THE INSIDE OF FUEL OIL STORAGE TANKS, COATING OF COLLECTING VESSELS BUILT OF CONCRETE, ETC. 67-10 M18-79089

FUEL TANKS, NONDESTRUCTIVE TESTING
ULTRASONIC WATER COLUMN PROBE SPEEDS UP TESTING OF WELDS 67-06 M19-70009

FUELS
SEE ALSO ANTHRACITE
BLAST FURNACE GAS
COKE OVEN GAS
FUEL OIL
KEROSENE
LIGNITE
MANUFACTURED GAS
METALLURGICAL FUELS
NATURAL GAS
NUCLEAR FUELS
USING THE REDUCING CAPACITY OF NATURAL GAS IN THE PRODUCTION OF BASIC PHOSPHORUS IRON 67-05 M04-68318
CONVERSION OF OPENHEARTH FURNACES IN A TUBE ROLLING WORKS TO NATURAL GAS 67-06 M04-71246
UTILIZATION OF REDUCING CAPACITY OF NATURAL GAS IN PRODUCTION OF STEELMAKING PHOSPHORIC PIG IRON 67-07 M04-72846
OXYGEN STEELMAKING IN THE BASIC OPENHEARTH FURNACE 67-12 M04-83074

FUELS, STEEL MAKING
HOW FUEL FLOW RATE AFFECTS OUTPUT AND THERMAL ROUTINES IN THE OPENHEARTH 67-10 M04-79821
PRODUCING HIGH-ALLOY STEELS IN OXYGEN CONVERTERS 67-11 M04-80850
BLOWING METAL WITH OXYGEN AND ADDED FUEL

67-11 M04-81038
EFFICIENT FUEL OIL COMBUSTION IN OPENHEARTH FURNACES 67-11 M04-81039
HOW LOCAL ADDITIONS OF FUEL OIL AND WATER VAPOR AFFECT COKE COMBUSTION IN THE BLAST FURNACE TUYERE BELT 67-11 M04-81460

FULL MOLD PROCESS CASTING
CAST STRUCTURAL PARTS PRODUCED BY FULL-FORM CASTING 67-10 M06-78643

FUME CONTROL
BALL BLANKET CUTS FUMES AT GALVANIZING PLANT 67-07 M12-73645
DESIGN, OPERATION AND MAINTENANCE OF A 150-TON ELECTRIC FURNACE DUST COLLECTION SYSTEM 67-09 M04-76668

FUMES
EFFECT OF RATE OF CARBON ELIMINATION UPON THE FORMATION OF OXIDE FUMES IN THE OXYGEN BLOWING OF STEEL. PT. 1. FORMATION OF IRON OXIDE FUMES IN CARBON ELIMINATION PROCESSES 67-06 M04-72217

FUMING /SLAG/
SEE SLAG FUMING

FUNDAMENTAL FREQUENCY
SEE RESONANT FREQUENCY

FURNACE BLACK
SEE CARBON BLACK

FURNACE BRAZING
PRECISE BRAZING STRESSED IN ANCHOR COUPLINGS GROWING FURNACE DEPARTMENT 67-03 M11-65468
BRAZING MOLYBDENUM AND ZIRCON SENSOR COMPONENTS 67-03 M11-65979
A FLUX FOR FURNACE BRAZING ALUMINUM AND ITS ALLOYS 67-04 M11-66571
BRAZING--THE AIR FORCE SHOWS THE WAY 67-06 M11-71494
A FLUX FOR THE FURNACE BRAZING OF ALUMINIUM AND ALUMINIUM ALLOYS 67-07 M11-73428
TWO WAYS TO JOIN WIRE SPACERS TO REACTOR FUEL TUBES 67-10 M11-78625

FURNACE LINERS
INFLUENCE OF SOME TECHNOLOGICAL FACTORS ON WEAR OF PERICLASE-SPINEL BRICK IN OXYGEN CONVERTERS 67-04 M04-66585
HIGH-DENSITY REFRACTORIES FOR BLAST FURNACE MADE OF KAOLINE FROM THE NOVOSELITSK DEPOSITS 67-04 M05-66584
INVESTIGATIONS OF WEAR PHENOMENA OF BLAST FURNACE LININGS 67-06 M04-70975
DEVELOPMENT OF PRESCRIPTION FURNACE LININGS 67-06 M04-71003
INVESTIGATION OF THE EFFECTS OF BURDEN CONSTITUENTS ON BLAST FURNACE REFRACTORY LININGS 67-06 M04-71387
REBUILD OF GREAT LAKES STEELS NO. A BLAST FURNACE 67-06 M04-71388
OPERATIONAL RESULTS OF MELTING SPECIAL STEELS IN THE MEDIUM FREQUENCY FURNACE WITH CRUCIBLES OF FUSED LIME 67-06 M04-71439
DEVELOPMENT TENDENCIES IN BASIC REFRACTORIES IN FOUNDRIES 67-06 M05-71189
INFLUENCE OF A CERAMIC ENVIRONMENT ON THE CREEP PROPERTIES OF CHROMIUM ALLOYS 67-06 M17-70800
HOT REPAIRS TO THE LINING OF BASIC OXYGEN FURNACES 67-07 M04-72437
REFRACTORY EXPERIENCES IN CRUCIBLE STEEL COMPANYS DORTMUND-HORDER DEGASSING UNIT 67-07 M04-72776
INVESTIGATIONS ON IRON OXIDE-CONTAINING SILICA BRICK 67-07 M04-73112
FACTORS AFFECTING THE WEAR RATE OF THE REFRACTORY LINING OF LD CRUCIBLES 67-07 M04-73117
INVESTIGATION OF THE VARIATION IN PROPERTIES OF PERMANENT TAR-DOLOMITE LININGS IN A BASIC CONVERTER AS A FUNCTION OF OPERATING STRESSES 67-07 M04-73266
HEATING IN THE DROP FORGE. PT. 5. FURNACE REFRACTORIES 67-08 M04-74362
TESTING DYNAS BRICK WITH A TITANIUM-CLAY ADDITIVE IN THE BOTTOM STRUCTURE OF AN OPENHEARTH FURNACE 67-08 M05-75596
PRESENT POSITION AND FUTURE DEVELOPMENT OF PIG IRON PRODUCTION IN THE GERMAN FEDERAL REPUBLIC 67-09 M04-76389
DEVELOPMENT OF BONDED BASIC ROOFS FOR OPEN-HEARTH FURNACES 67-09 M04-77718
EVALUATION OF OPEN-HEARTH ROOF BRICK 67-09 M04-77965
INVESTIGATION OF WEAR PHENOMENA OF BLAST FURNACE LININGS 67-12 M04-82887
CHANGES IN BASIC REFRACTORY BRICK IN OXYGEN CONVERTERS 67-12 M04-83006
THE EVALUATION OF ROOF BRICKS FOR OPENHEARTH FURNACES 67-12 M04-83007
EXPERIENCE WITH THREE BASIC ROOF OPENHEARTH INSTALLATIONS AT THE DURGAPUR STEEL PLANT 67-12 M04-83117
MINERALOGICAL INVESTIGATIONS OF THE WEAR OF TAR-BONDED DOLOMITE AND TAR-BONDED MAGNESITE REFRACTORY BRICKS IN OXYGEN CONVERTERS 67-12 M04-83128
METHODS FOR IMPROVING MASONRY AND BOTTOM LIFE OF THE THOMAS CONVERTER 67-12 M04-83346

FURNACE LINERS, MECHANICAL PROPERTIES
FAILURE MECHANISM OF PERICLASESPINEL AND CHROMITE-MAGNESITE LININGS IN OXYGEN CONVERTERS 67-06 M05-70564
EROSIVE WEAR OF WORKING LINING OF BASIC OXYGEN LD FURNACE 67-07 M04-72557
EXTENDING THE LIFE OF 100-TON CONVERTER LININGS 67-12 M04-83466

FURNACE LINERS, PHYSICAL PROPERTIES
BEHAVIOR OF HIGH-FIRED BASIC BRICK IN SPRUNG ARCHES 67-09 M05-76455

FURNACE LINERS, REFRACTORIES
GUNNITING THE THROAT OF THE F BLAST FURNACE AT JAMSHEDPUR 67-04 M20-66598

FURNACE LINERS, SERVICE TIME
LIFE OF RESIN-BONDED DOLOMITE REFRACTORIES IN CONVERTER LININGS 67-06 M05-70207
LIFE OF DINAS REFRACTORIES IN COPPER-REFINING FURNACES 67-07 M03-72779
LINING LIFE FOR CONVERTERS TREATING HIGH-METALLIZED COPPER-NICKEL MATTES 67-07 M03-72781
REFRACTORIES KEEP PACE WITH RISING OUTPUT RATES ON IRON AND STEEL PLANTS 67-08 M05-75698
HOT METAL CAR REFRACTORIES. THE TAB FOR THE TAXI IS GOING HIGHER 67-11 M04-80789
STUDY OF BLAST FURNACE STACK REFRACTORY LIFE WITH THE AID OF ISOTOPES 67-11 M04-81303
HEARTH AND WALL LIFE IN AN ARC FURNACE WORKING OFF A LONG RUN OF STAINLESS STEEL HEATS 67-11 M04-81608
IMPROVING LINING LIFE AS A WAY OF INCREASING FURNACE PRODUCTIVITY 67-12 M14-81731

FURNACE LINERS, THERMAL PROPERTIES
THERMAL CONDUCTIVITY OF CHROMITE-CONTAINING REFRACTORIES AND TEMPERATURE PATTERNS IN ROOF LININGS 67-07 M15-73474

FURNACE LINERS, WEAR
WEAR MEASUREMENTS ON THE LINING OF A KALDO CONVERTER 67-06 M05-70840
REFRACTORY REQUIREMENTS FOR LARGE INDUCTION FURNACES IN THE FERROUS FOUNDRY 67-08 M05-76167
DISINTEGRATION OF DOLOMITE REFRACTORIES WITH A RESIN BINDER IN STEEL-SMELTING UNITS 67-09 M05-76949
MECHANISM OF REFRACTORY WEAR IN OXYGEN CONVERTERS 67-11 M04-80912

FURNACES
SEE ALSO BOILER FURNACES
INVESTIGATION OF INSULATING BRICK IN STEEL PLANT SERVICE 67-01 M04-58453
RA-600 --HEAT RESISTANT ALLOYS-- 67-04 M01-66329
HIGH TEMPERATURE ALLOYS FOR USE IN REFORMER FURNACES 67-06 M17-70528

FURNACES, COATING
RECENT BASIC GUNNING APPLICATIONS 67-05 M04-68696

FURNACES, DESIGN
TUBULAR REVOLVING HORIZONTAL FURNACE FOR REDUCING NICKEL OXIDE 67-09 M03-76870

FURNACES, MATERIALS
INTRODUCTION TO THE USE OF CAST ALLOY MATERIAL FOR HYDROCARBON PROCESSING IN THE U. S. A. 67-06 M20-70532

FURNACES, SPECIFICATIONS
THE CONTROLLED ATMOSPHERE FURNACE--ITS DESIGN AND APPLICATION 67-09 M02-76730

FURNACES, WELDING
FLUX SUPPORTED SUBMERGED-ARC WELDING OF TUBULAR PANELS 67-09 M11-77947

FUSED BATHS /METALS/
SEE METAL BATHS

FUSED BATHS /SALTS/

FUSED BATHS /SALTS/
SEE SALT BATHS
FUSED SALT ELECTROLYSIS
SEE ALSO HALL HEROULT PROCESS
STUDY OF CERTAIN PHYSICO CHEMICAL PROPERTIES OF FUSED FLUORIDE-CHLORIDE SYSTEMS 67-02 M03-59855
ANODIC DISINTEGRATION OF METALS UNDERGOING ELECTROLYSIS IN AQUEOUS SALT SOLUTIONS 67-05 M18-69475
PRODUCTION OF URANIUM METAL FROM URANIUM OXIDE BY FUSED SALT ELECTROLYSIS 67-06 M03-71698
METHOD OF OBTAINING IRON BY ELECTROLYSIS OF FUSED SALTS WITH CONSUMABLE ANODES 67-06 M04-70948
PRODUCTION OF SODIUM METAL FROM FUSED MELTS 67-08 M03-74384
THE PRESENT STATUS AND FUTURE PROSPECTS IN INDIA FOR THE ELECTROLYTIC RECOVERY OF METALS FROM FUSED MELTS 67-08 M03-74386
ELECTROREFINING OF METALS IN FUSED MEDIA 67-08 M03-74387
AN ELECTROLYTIC PROCESS FOR PRODUCING DUCTILE VANADIUM 67-08 M03-76160
INFLUENCE OF LOWER CHLORIDES OF TITANIUM ON THE ELECTRODE POTENTIALS OF CERTAIN METALS IN MOLTEN SALTS 67-09 M15-76510
ELECTROREFINING YTTRIUM 67-10 M03-79988
FUSED SALTS
PRODUCTION OF HIGH PURITY URANIUM BY FUSED SALT ELECTROLYSIS 67-06 M03-70019
THE CLEANING OF STRUCTURAL PARTS FOLLOWING HEAT TREATMENT IN SALT BATHS 67-06 M12-71275
FUSELAGES
SEE AIRFRAMES
FUSIBILITY
THE STUDY OF FUSING OF VARIOUS ALLOYS MADE BY MEANS OF X-RAY FLUORESCENCE ANALYSIS 67-02 M14-60122
INFLUENCE OF FLUXES UPON THE MINERAL CONSTITUENTS AND PHYSICAL PROPERTIES OF IRON ORE SINTER 67-04 M02-66297
FUSIBLE ALLOYS, MATERIALS
FUSIBLE ALLOYS 67-09 M19-76364
FUSING /MELTING/
SEE FUSION /MELTING/
FUSION /MELTING/
EXTRACTION OF EUXENITE METAL VALUES BY FUSION WITH AMMONIUM SULFATE OR AMMONIUM BISULFATE 67-04 M03-67031
PRODUCTION OF HIGH PURITY URANIUM BY FUSED SALT ELECTROLYSIS 67-06 M03-70019
STUDY OF THERMOELECTROMOTIVE FORCES IN CERTAIN COMPOUNDS DURING FUSION AND IN LIQUID PHASE 67-09 M15-77120
FUSION BONDING
INTERFACIAL REACTIONS IN LEAD OXIDE-BEARING ENAMEL-METAL SYSTEMS 67-06 M14-71163
FUSION CUTTING
SEE ARC CUTTING
ELECTRON BEAM CUTTING
ELECTRON BEAM MACHINING
GAS CUTTING
GAS TUNGSTEN ARC CUTTING
LASER BEAM CUTTING
OXYACETYLENE CUTTING
OXYGEN CUTTING
PLASMA ARC CUTTING
POWDER CUTTING
UNDERWATER CUTTING
FUSION WELDING
SEE ALSO ARC SEAM WELDING
ARC SPOT WELDING
BRAZE WELDING
CARBON ARC WELDING
ELECTRON BEAM WELDING
ELECTROSLAG WELDING
FLASH WELDING
FLUX CORE WIRE WELDING
GAS METAL ARC WELDING
GAS TUNGSTEN ARC WELDING
GAS WELDING
INDUCTION WELDING
INERT GAS WELDING
LASER BEAM WELDING
OXYACETYLENE WELDING
PERCUSSION WELDING
PLASMA ARC WELDING
PRESSURE GAS WELDING
PRESSURE INDUCTION WELDING
SHIELDED ARC WELDING
SHIELDED METAL ARC WELDING
STUD WELDING
SUBMERGED ARC WELDING
THERMIT WELDING
UNSHIELDED ARC WELDING
WELDABILITY OF HIGH-STRENGTH ALUMINUM ALLOYS 67-01 M17-57223
SELECTION OF THE FUSION WELDING METHOD FOR ALUMINUM AND ALUMINUM ALLOYS 67-02 M11-60131
THE FUSION WELDING OF BETA-TITANIUM ALLOYS 67-02 M11-61069
FUSION WELDED 17 STEEL TUBES 67-02 M19-61045
FUSION WELDING ALUMINIUM TO COPPER 67-04 M11-67358
SELECTION OF A METHOD OF FUSION WELDING ALUMINIUM AND ITS ALLOYS 67-04 M11-67671
WELDING BETWEEN CLAD SHEET STEELS 67-04 M12-66410
TITANIUM 67-07 M11-73305
WELDING OF REFRACTORY ALLOYS 67-08 M11-74463
WELDING SLIP-IN AND EDGE JOINTS 67-08 M11-74769
PROSPECTS FOR DEVELOPING THE WELDING OF METALS 67-08 M11-75365
SIMPLE DEVICES FOR AUTOMATIC SHORT WELDS 67-10 M11-79173

GADOLINIUM, ALLOYING ADDITIVE
IRON-COBALT ALLOYS WITH ADDITIONS OF SMALL AMOUNTS OF RARE EARTH ELEMENTS PR, GD OR HO 67-08 M15-75948
GADOLINIUM, ATOMIC PROPERTIES
MEASUREMENTS OF THE POLARIZATION OF FIELD EMITTED ELECTRONS FROM POLYCRYSTALLINE GADOLINIUM 67-11 M16-80781
GADOLINIUM, BINARY SYSTEMS
THE ROOM-TEMPERATURE LATTICE SPACINGS OF SOME INTRA RARE-EARTH BINARY SYSTEMS 67-03 M13-65132
PHASE DIAGRAM OF THE MOLYBDENUM-GADOLINIUM SYSTEM 67-05 M13-69249
CONSTITUTION OF BINARY ALLOYS OF GADOLINIUM, DYSPROSIUM, HOLMIUM AND ERBIUM WITH MANGANESE 67-06 M14-71861
THE CRYSTAL STRUCTURE OF GD13ZN58 67-07 M13-73438
GADOLINIUM, ELECTRICAL PROPERTIES
ANISOTROPY OF THE HALL EFFECT IN GADOLINIUM 67-03 M15-65306
GADOLINIUM, INTERMETALLICS
STUDY OF THE EFFECT OF MAGNETIC ORDERING ON THE ELECTRICAL RESISTIVITY OF GDAL2 67-07 M15-73314
GADOLINIUM, MAGNETIC PROPERTIES
PARAMAGNETIC RESONANCE TRANSMISSION IN GADOLINIUM 67-01 M15-57552
MAGNETIC PROPERTIES OF SOME RARE-EARTH ALLOYS AT HIGH PRESSURES 67-05 M15-69521
MAGNETIC HYPERFINE STRUCTURE OF THE GD155 LEVELS IN METALLIC GADOLINIUM AND IN THE INTERMETALLIC COMPOUND GDAL2 67-05 M16-69028
THE EFFECT OF PRESSURE ON THE CURIE TEMPERATURE AND RESISTIVITY OF SOME RARE-EARTH METALS AND HEUSLER ALLOYS 67-06 M15-71282
BASAL-PLANE ANISOTROPY OF GADOLINIUM 67-07 M15-73582
UNIAXIAL ANISOTROPY AND ROTATIONAL HYSTERESIS IN THIN GADOLINIUM FILMS 67-07 M15-73592
THE VARIATION OF THE CURIE POINT OF A GD CRYSTAL WITH PRESSURE 67-10 M15-79684
GADOLINIUM, MICROSTRUCTURE
HYDRIDE HABIT PLANES AND DEFORMATION PLANES OF HCP METALS 67-11 M13-81274
GADOLINIUM, PHYSICAL PROPERTIES
AN INTERNAL FRICTION PEAK IN POLYCRYSTALLINE GADOLINIUM 67-06 M15-71046
KNUDSEN CELL STUDIES OF THE VAPORIZATION OF GADOLINIUM AND GADOLINIUM DICARBIDE 67-11 M15-81555
GADOLINIUM, TERNARY SYSTEMS
LATTICE SPACINGS AND EFFECTIVE ATOMIC DIAMETERS IN THE TERNARY SYSTEMS FORMED BY TH AND CE WITH Y, LA, GD AND ER, AND BY TH, PR AND Y 67-11 M13-80308
GADOLINIUM, THERMAL PROPERTIES
SPECIFIC HEAT OF GADOLINIUM, TERBIUM, DYSPROSIUM, HOLMIUM, AND THULIUM METALS BETWEEN 3 AND 25 K 67-01 M15-58750
ANOMALOUS THERMAL CONDUCTIVITY IN GADOLINIUM BELOW

4 K 67-11 M15-80775
GADOLINIUM, X RAY ANALYSIS
THE EFFECT OF COLD-WORK --FILING-- ON THE X-RAY DIFFRACTION PATTERNS OF SOME GADOLINIUM-CERIUM ALLOYS 67-06 M13-71061
GADOLINIUM BASE ALLOYS, MAGNETIC PROPERTIES
MAGNETIC TRANSITIONS IN ALLOYS OF GADOLINIUM AND DYSPROSIUM 67-10 M15-78738
GADOLINIUM BASE ALLOYS, THIN FILMS
THE MAGNETIC AND ELECTRICAL PROPETIES OF IRON-GADOLINIUM FILMS 67-12 M15-83306
GADOLINIUM BASE ALLOYS, X RAY ANALYSIS
THE EFFECT OF COLD-WORK --FILING-- ON THE X-RAY DIFFRACTION PATTERNS OF SOME GADOLINIUM-CERIUM ALLOYS 67-06 M13-71061
GADOLINIUM COMPOUNDS, MAGNETIC PROPERTIES
PARAMAGNETIC RESONANCE IN BINARY EU --2-- AND GD --3-- COMPOUNDS 67-01 M16-58635
SPONTANEOUS MAGNETIZATION OF EUO AND GDN 67-03 M15-65145
THE PARAMAGNETIC FORM FACTOR OF GADOLINIUM 67-07 M16-73585
GADOLINIUM COMPOUNDS, PHYSICAL PROPERTIES
KNUDSEN CELL STUDIES OF THE VAPORIZATION OF GADOLINIUM AND GADOLINIUM DICARBIDE 67-11 M15-81555
GADOLINIUM COMPOUNDS, POWDER METALLURGY
PECULIARITIES OF THE VACUUM-THERMAL METHOD OF PREPARATION AND SOME PROPERTIES OF YTTRIUM AND GADOLINIUM BORIDES 67-04 M09-66266
PRODUCTION OF LANTHANUM, GADOLINIUM AND YTTRIUM HEXABORIDES USING ELECTRON BEAM HEATING 67-06 M09-71460
VACUUM-THERMAL PREPARATION OF YTTRIUM AND GADOLINIUM BORIDES, AND SOME OF THEIR PROPERTIES 67-10 M09-78998
DEVELOPMENT OF A TECHNIQUE OF PREPARATION OF LA, GD, AND Y HEXABORIDES USING ELECTRON-BEAM HEATING 67-12 M09-82781
GADOLINIUM COMPOUNDS, REACTIONS /CHEMICAL/
REACTION OF SODIUM CHLORIDE WITH DYSPROSIUM AND GADOLINIUM CHLORIDES 67-11 M14-81310
GADOLINIUM COMPOUNDS, TERNARY SYSTEMS
STUDY OF THE A1SB-GASB-INSB SYSTEM 67-08 M14-75080
GADOLIUM, ALLOYING ADDITIVE
THE EFFECT OF CERTAIN RARE-EARTH SOLUTES UPON THE FCC-BCC TRANSFORMATION TEMPERATURE OF THORIUM 67-01 M14-58532

GAGES
SEE MEASURING INSTRUMENTS
GAGING
SEE DIMENSIONAL MEASUREMENTS
GAIN /AMPLIFICATION/
SEE AMPLIFICATION
GALENA, BENEFICIATION
STUDY OF AUTOCLAVE LEACHING OF SULFIDE MINERALS 67-02 M02-59852
HOW SELECTIVE FLOTATION RECOVERS FOUR MINERALS--CHALCOPYRITE, GALENA, SPHALERITE AND PYRITE 67-07 M02-73214
ON THE ACTION OF XANTHATE IN FLOTATION 67-07 M02-73828

GALLING
TEMPERATURE AND FRICTIONAL COEFFICIENT AT HIGH RATES OF SLIP 67-06 M17-71367
INFLUENCE OF LUBRICANT ADDITIVES ON WIRE-WOOL TYPE BEARING FAILURES WITH 12 PER CENT CHROMIUM STEEL JOURNALS 67-10 M17-79578
GALLIUM, ALLOYING ADDITIVE
MARTENSITE IN TERNARY CU-ZN-BASED BETA-PHASE ALLOYS 67-03 M14-65079
THE INFLUENCE OF ALLOYING ELEMENTS ON ALUMINUM ANODES IN SEA WATER 67-03 M18-65473
THE INFLUENCE OF PRESSURE ON THE STABILIZATION OF THE DELTA PHASE OF PLUTONIUM BY GALLIUM 67-09 M14-76309
COMPOSITIONAL AND PRESSURE EFFECTS IN THE PLUTONIUM-GALLIUM SYSTEM 67-09 M15-76308
FATIGUE BEHAVIOUR OF PLUTONIUM-1.0 WT PER CENT GALLIUM DELTA-STABILIZED PLUTONIUM 67-09 M17-76330
SOME OBSERVATIONS ON THE COMPRESSIVE CREEP BEHAVIOUR OF A DELTA-STABILIZED PLUTONIUM-1 WT PER CENT GALLIUM ALLOY 67-09 M17-76331
GALLIUM, BINARY SYSTEMS
PHASE DIAGRAM OF THE NIOBIUM-GALLIUM SYSTEM 67-05 M13-68203
INVESTIGATION OF THE GA-SE PHASE DIAGRAM 67-05 M13-68206
NUCLEAR MAGNETIC RESONANCE IN LIQUID GALLIUM ALLOYS 67-05 M16-69785
SOLUBILITY OF GALLIUM IN SOLID TIN 67-06 M13-70105
MAGNETIC ELECTRICAL AND THERMAL PROPERTIES OF THE BCC-ALPHA PHASE IN A FE-GA SYSTEM 67-07 M15-72726
THE VISCOSITY OF FUSIBLE GA-CD, GA-HG AND GA-BI DECOMPOSITION SYSTEMS 67-07 M15-72728
LATTICE PARAMETERS OF IRON-RICH IRON-GALLIUM ALLOYS 67-09 M13-77733
STUDIES OF THE BINARY SYSTEMS PLUTONIUM-GOLD PLUTONIUM-GALLIUM AND PLUTONIUM-INDIUM 67-09 M14-76321
THE EQUILIBRIUM DIAGRAM OF THE FE-GA BINARY SYSTEM 67-10 M13-80028
INVESTIGATION OF THE THERMODYNAMIC PROPERTIES OF THE GALLIUM-MERCURY AND GALLIUM-ZINC SYSTEMS 67-10 M15-78671
PHASE DIAGRAM OF THE VANADIUM-GALLIUM SYSTEM 67-12 M13-83355
SURFACE TENSION AND DENSITY OF LIQUID NI-GA ALLOYS AND THE WETTABILITY OF AL2O3 BY THEM 67-12 M15-82171
GALLIUM, COATINGS
INVESTIGATION OF THE POTENTIALS OF GA ELECTRODES AND THE POLARIZATION IN THE ELECTROLYTIC DEPOSITION OF GA AS A FUNCTION OF ITS AGGREGATE STATE 67-07 M12-73178
THE JOINT EFFECTS OF RADIATION AND BOUNDARY-ACTIVE COATING ON THE MECHANICAL PROPERTIES OF SINGLE CRYSTALS OF METALS 67-09 M17-76720
GALLIUM, CRYSTAL GROWTH
EFFECT OF SMALL ADDITIONS OF SILVER ON THE GROWTH OF GALLIUM CRYSTALS FROM THE MELT 67-02 M14-61927
GALLIUM, CRYSTAL LATTICES
ELECTRON DIFFRACTION AT LOW TEMPERATURE. PT. 2. RADIAL DISTRIBUTION ANALYSIS OF METASTABLE STRUCTURE OF METAL FILMS PREPARED BY LOW TEMPERATURE CONDENSATION 67-02 M13-60514
SURFACE MEASUREMENTS USING LOW ENERGY ELECTRON DIFFRACTION 67-08 M13-74708
FORMATION OF DISLOCATION NETWORKS IN GALLIUM SINGLE CRYSTALS 67-09 M13-77427
GALLIUM, DIFFUSION
SPREADING OF GALLIUM ON TIN SURFACE 67-02 M14-60972
DETAILS OF THE ADSORPTIVE DECREASE IN STRENGTH OF POLYCRYSTALLINE ZINC IN THE PRESENCE OF GALLIUM 67-02 M17-59637
SOLUTE DIFFUSION IN PLASTICALLY DEFORMED SILICON CRYSTALS 67-07 M14-72885
SIMULTANEOUS DIFFUSION OF GA AND AS INTO SILICON FROM A GAAS SOURCE 67-11 M14-80535
GALLIUM, ELECTRICAL PROPERTIES
ELECTRICAL RESISTIVITY OF UNDERCOOLED GALLIUM AND GALLIUM-INDIUM EUTECTIC ALLOY 67-02 M15-59433
INVESTIGATION OF THE ELECTRICAL AND SUPERCONDUCTIVE PROPERTIES OF METALS OF DIFFERENT PURITIES. PT. 3 67-02 M16-58925
TEMPERATURE DEPENDENCE OF ELECTRON SCATTERING IN THIN SINGLE CRYSTAL FILMS OF GALLIUM AT HE TEMPERATURES 67-03 M16-65140
ANOMALOUS RESISTANCE OF PURE GALLIUM NEAR 1.7 K 67-06 M15-71065
ANISOTROPY OF GALLIUM CONTRIBUTES TO FALSE CLASSIFICATION WITH ANTIMONY AND BISMUTH 67-07 M15-73493

GALLIUM, EXTRACTION
THE EXTRACTION OF GALLIUM CHLORIDE BY TRIBUTYL PHOSPHATE AND THE RECOVERY OF GALLIUM FROM BAYER LIQUOR 67-06 M03-71060
EFFECT OF SOLUTION COMPOSITION IN GA DEPOSITION ON A GA CATHODE LAYER 67-07 M03-73470
GALLIUM, INTERMETALLICS
OSCILLATORY MAGNETOSTRICTION IN N-GALLIUM ANTIMONIDE 67-01 M16-58579
SELECTIVE EPITAXIAL DEPOSITION OF GALLIUM ARSENIDE IN HOLES 67-02 M14-61767
ELECTRICAL PROPERTIES OF GASB-GA2TE3 AND GASB-GATE SOLID SOLUTIONS 67-02 M15-61521
SOME CROSS-SUBSTITUTIONAL ALLOYS OF CDTE 67-02 M16-61765
LATTICE INSTABILITY OF HIGH-TRANSITION-TEMPERATURE SUPERCONDUCTORS. PT. 1. POLYCRYSTALLINE A-15 COMPOUNDS 67-05 M16-69516

GALLIUM

THE V3SI-V3GA SYSTEM 67-06 M14-71397
THE CRYSTAL STRUCTURES OF RH10GA17 AND IR3GA5 67-09 M13-77301
OPTICAL PROPERTIES OF THE INTERMETALLIC COMPOUNDS AUAL2, AUGA2 AND AUIN2 67-10 M15-78907
SUPERCONDUCTING CRITICAL CURRENTS OF V3GA WIRES MADE BY A NEW DIFFUSION PROCESS 67-10 M16-79125

GALLIUM, OPTICAL PROPERTIES
THE OPTICAL PROPERTIES OF INDIUM, GALLIUM AND THALLIUM 67-06 M15-72089

GALLIUM, PHYSICAL PROPERTIES
THE RELATIONSHIP BETWEEN ELECTRICAL CONDUCTIVITY AND SOUND VELOCITY IN MOLTEN METALS 67-08 M15-74649
GALLIUM 67-09 M01-77552
CALORIMETRIC EVIDENCE FOR THE ABSENCE OF A MAGNETIC PHASE TRANSITION IN GALLIUM NEAR 1.7 K 67-12 M15-82199

GALLIUM, REDUCTION /CHEMICAL/
REDUCTION OF GALLIUM IN ALKALINE SOLUTIONS OF ALUMINUM GALLAM. PT. 1 67-04 M03-66852

GALLIUM, REFINING
FACTORS AFFECTING GALLIUM ELECTROLYSIS 67-06 M03-70905
EXTRACTION OF GERMANIUM AND GALLIUM FROM COAL FLY ASH AND PHOSPHORUS FURNACE FLUE DUST 67-07 M03-73617

GALLIUM, SEPARATION
THE BEHAVIOR OF ZINC DURING LAYER SEPARATION OF A GALLIUM AMALGAM 67-09 M03-76583

GALLIUM, SUPERCONDUCTIVITY
THE SUPRACONDUCTIBILITY OF A METASTASABLE PHASE OF GALLIUM 67-02 M16-60172
HYSTERESIS EFFECTS IN THREE SUPERCONDUCTING PHASES OF GALLIUM 67-03 M16-65750
STRONG-COUPLING SUPERCONDUCTIVITY IN GALLIUM 67-06 M16-70636

GALLIUM, TERNARY SYSTEMS
THE GA-AS-SI TERNARY PHASE SYSTEM 67-02 M13-59453
THE TERNARY CONDENSED PHASE DIAGRAM OF THE GA-AS-TE SYSTEM 67-03 M14-65428
STUDY OF THE ALSB-GASB-INSB SYSTEM 67-04 M13-68050
TERNARY CONDENSED PHASE SYSTEMS OF GALLIUM AND ARSENIC WITH GROUP IB ELEMENTS 67-07 M14-73460
THE STRUCTURE OF SEMICONDUCTOR AG2TE-GA2TE3 ALLOYS 67-12 M13-82493

GALLIUM, THERMAL PROPERTIES
THE ABSOLUTE THERMOELECTRIC POWER OF LIQUID METALS 67-01 M15-57972
INVESTIGATION OF THE HEAT CONDUCTIVITY OF CERTAIN METALS ON TRANSITION FROM THE SOLID TO THE LIQUID STATE 67-05 M15-69394

GALLIUM, THIN FILMS
REDUCTION IN THE SURFACE TENSION OF SOLID METALS DUE TO ATOMS OF LIQUID SURFACE-ACTIVE METALS ADSORBED ON THEIR SURFACE 67-12 M15-82180

GALLIUM, TRANSPORT PROPERTIES
THE MECHANISM OF IONIC MOBILITY IN MOLTEN METALS 67-02 M15-59932
DIFFUSION AND ELECTROTRANSPORT OF SOLUTES IN MOLTEN GERMANIUM--IMPLICATIONS FOR PRODUCING P-N JUNCTIONS 67-06 M15-69927
MECHANISM OF IONIC MOBILITY IN LIQUID METALS 67-07 M15-72587
ELECTROTRANSPORT AND EFFECTIVE SELF-DIFFUSION IN PURE LIQUID GALLIUM METAL 67-07 M15-72838
FERMI SURFACE IN GALLIUM DTERMINED FROM THE RADIO-FREQUENCY SIZE EFFECT 67-07 M16-73943
HALL COEFFICIENT OF LIQUID METALS HG, GA, IN, AND SN, AND OF IN2BI AND HG-SN ALLOYS 67-11 M15-81049
METHOD OF DETERMINING THE ELECTRICAL MOBILITIES OF IMPURITIES IN LIQUID METALS AND THE MOBILITY OF BISMUTH IN LIQUID GALLIUM 67-11 M15-81208

GALLIUM, ULTRASONICS
ULTRASONIC ATTENUATION IN GALLIUM 67-05 M16-69811

GALLIUM, X RAY SPECTROSCOPY
FINE STRUCTURE ANISOTROPY OF THE X-RAY K-ABSORPTION SPECTRUM OF A GALLIUM SINGLE CRYSTAL 67-01 M13-57339

GALLIUM BASE ALLOYS, CRYSTAL GROWTH
METHODS OF DETERMINING THE DISTRIBUTION RATIOS OF VOLATILE IMPURITIES DURING GROWING OF GALLIUM ARSENIDE SINGLE CRYSTALS BY DIRECTED CRYSTALLIZATION 67-01 M14-57696

GALLIUM BASE ALLOYS, DIFFUSION
ELECTRODIFFUSION OF SN AND HG IN THEIR ALLOYS CONTAINING GA 67-04 M14-67918

GALLIUM BASE ALLOYS, ELECTRICAL PROPERTIES
ELECTRICAL RESISTIVITY OF UNDERCOOLED GALLIUM AND GALLIUM-INDIUM EUTECTIC ALLOY 67-02 M15-59433

GALLIUM BASE ALLOYS, PHASE TRANSFORMATIONS
INVESTIGATION OF THE POLYMORPHISM OF GA2SE3 SELENIDE OF VARIABLE COMPOSITION 67-01 M14-57647

GALLIUM BASE ALLOYS, REACTIONS /CHEMICAL/
HOW CERTAIN FACTORS AFFECT THE REDUCTION OF GALLIUM IN ALKALINE SOLUTIONS OF ALUMINUM GALLAM ALLOYS. PT. 2 67-04 M03-66851

GALLIUM BASE ALLOYS, THERMAL PROPERTIES
MIXTURE ENTHALPY OF LIQUID GALLIUM-INDIUM ALLOYS 67-05 M15-69129

GALLIUM COMPOUNDS, BAND THEORY
BAND STRUCTURE OF GAAS, GAP, INP AND ALSB.. THE K.P METHOD 67-04 M16-66741
BAND STRUCTURE OF THE SEMICONDUCTING LAYER COMPOUNDS 67-04 M16-66742
ELECTRON EFFECTIVE MASS IN GALLIUM ARSENIDE AS A FUNCTION OF DOPING 67-04 M16-66755
ELECTRONIC ENERGY BANDS IN GAAS FOR IMAGINARY CRYSTAL MOMENTUM 67-04 M16-67365
DIRECT EDGE PIEZOREFLECTANCE IN GE AND GAAS 67-08 M16-75007

GALLIUM COMPOUNDS, BINARY SYSTEMS
THE BINARY EUTECTICS GASB-GAV3SB5 AND GASB-V2GA5 67-05 M13-68277

GALLIUM COMPOUNDS, COATING
VAPOR PLATING OF TIN ONTO GALLIUM ARSENIDE 67-10 M15-79126

GALLIUM COMPOUNDS, CRYSTAL GROWTH
EPITAXIAL GROWTH OF BULK-QUALITY GALLIUM ARSENIDE ON GALLIUM ARSENIDE AND GERMANIUM SUBSTRATES 67-01 M14-57126
EPITAXIAL GROWTH OF GALLIUM ARSENIDE SOLID SOLUTION SINGLE CRYSTALS 67-01 M14-57654
ORIENTED GROWTH OF SEMICONDUCTORS. PT. 3. GROWTH OF GALLIUM ARSENIDE ON GERMANIUM 67-03 M14-65873
METHOD FOR PREPARATION OF THIN, ORIENTED GAAS CRYSTALS 67-03 M14-65897
SILICON CONTAMINATION OF GAAS CRYSTALS GROWN IN GLASSY CARBON BOATS 67-04 M14-67000
GA-RICH V-GA COMPOUNDS 67-04 M14-67253
PREPARATION OF INAS AND GAAS SINGLE CRYSTALS 67-04 M14-67441
EFFECTS OF DOPING ON THE GROWTH RATE AND MORPHOLOGY OF EPITAXIAL GALLIUM ARSENIDE 67-05 M14-68591
PREPARATION OF EPITAXIAL GAXIN1-XAS 67-05 M14-68623
PREPARATION AND PROPERTIES OF EPITAXIAL GALLIUM PHOSPHIDE 67-05 M14-68628
REFLECTION X-RAY TOPOGRAPHY OF GAAS DEPOSITED ON GE 67-06 M14-70667
VAPOR-PHASE GROWTH OF GAAS1-XPX ROOM-TEMPERATURE INJECTION LASERS 67-06 M16-71146
EPITAXIAL DEPOSITION OF GAAS IN AN ARGON ATMOSPHERE 67-06 M16-72180
THE PREPARATION AND PROPERTIES OF EPITAXIAL GALLIUM ARSENIDE 67-07 M14-72914
GALLIUM ARSENIDE EPITAXIAL TECHNOLOGY 67-07 M14-72915
DISTRIBUTION COEFFICIENTS IN GALLIUM ARSENIDE 67-07 M14-72919
RECENT PROGRESS IN THE PREPARATION OF VERY PURE GALLIUM ARSENIDE 67-07 M14-72921
GROWTH MECHANISMS AND CRYSTALLINE QUALITY OF DIAMOND TYPE COMPOUNDS AND CRYSTALS IN THE 3-5 AND 2-6 GROUPS 67-07 M14-73926
PREPARATION AND CHARACTERISTICS OF GALLIUM ARSENIDE 67-07 M16-72916
NEW ASPECTS OF SOLUTION REGROWTH IN THE DEVICE TECHNOLOGY OF GALLIUM ARSENIDE 67-07 M16-72922
METHOD OF OBTAINING HOMOGENEOUS FILMS OF SEMICONDUCTING III-V COMPOUNDS 67-09 M14-76770
INVESTIGATION OF THE PROCESS OF GROWING EPITAXIAL GAAS FILMS BY USING THE OPEN IODIDE METHOD 67-09 M14-76851
DISLOCATION FREE EPITAXIAL GAAS 67-10 M14-78443

OBSERVATION OF THE GROWTH PROCESS OF GALLIUM ARSENIDE ON TUNGSTEN 67-10 M14-79024
GROWTH OF GALLIUM ARSENIDE SINGLE CRYSTAL FROM LIQUID PHASE ON SEED CRYSTAL 67-11 M14-80822
PREPARATION OF OHMIC CONTACTS FOR N-TYPE GAAS 67-11 M14-80834
PREPARATION OF RESTRICTED-AREA GAAS TUNNEL DIODES 67-11 M14-80835

GALLIUM COMPOUNDS, CRYSTAL LATTICES
EFFECTS OF STRESS-INDUCED BAND-GAP WIDENING AND DEFECTS IN GAAS JUNCTIONS 67-02 M15-61830
INVESTIGATION OF INHOMOGENEITIES IN GAAS BY ELECTRON-BEAM EXCITATION 67-05 M13-68621
TWINNING AND MORPHOLOGY OF EPITAXIAL LAYERS OF GAAS ON GE 67-06 M13-70513
THE CRYSTALLINE PERFECTION OF MELT-GROWN GAAS SUBSTRATES AND GA --AS, P-- EPITAXIAL DEPOSITS 67-06 M14-71422
STRUCTURAL DEFECTS IN EPITAXIAL GALLIUM ARSENIDE 67-07 M13-72918
DETECTION OF SELENIUM CLUSTERING IN GAAS BY TRANSMISSION ELECTRON MICROSCOPY 67-07 M14-72650
PYRAMID FORMATION IN EPITAXIAL GALLIUM ARSENIDE LAYERS 67-07 M14-72917
DISTRIBUTION AND DENSITY OF DISLOCATIONS IN BENT AND ANNEALED GALLIUM ARSENIDE AND INDIUM ANTIMONIDE CRYSTALS 67-10 M13-79246

GALLIUM COMPOUNDS, DIFFUSION
SURFACE RECOMBINATION VELOCITIES AND DIFFUSION LENGTHS IN GAAS 67-04 M14-66762
COPPER DIFFUSED GALLIUM ARSENIDE P-N JUNCTIONS / 67-04* M16-66119
PRECIPITATES INDUCED IN GAAS BY THE INDIFFUSION OF ZINC 67-05 M14-68626
DECORATED DISLOCATIONS AND SUB-SURFACE DEFECTS INDUCED IN GAAS BY THE IN-DIFFUSION OF ZINC 67-05 M14-68627
THE EFFECT OF APPLIED ELECTRIC FIELD ON DIFFUSION OF IMPURITIES IN GALLIUM ARSENIDE 67-06 M16-70986
MEASUREMENT OF DIFFUSION PROFILE OF ZN IN N-TYPE GAAS BY A SPREADING RESISTANCE TECHNIQUE 67-09 M14-78063
DIFFUSION AND SOLUBILITY IN GALLIUM ANTIMONIDE 67-11 M14-80626
DIFFUSION OF ZINC IN GALLIUM ARSENIDE UNDER ARSENIC VAPOR PRESSURE 67-11 M14-80813

GALLIUM COMPOUNDS, ELECTRIC CONTACTS
METAL-SEMICONDUCTOR CONTACTS FOR GAAS BULK EFFECT DEVICES 67-07 M16-73180

GALLIUM COMPOUNDS, ELECTRICAL PROPERTIES
IMPURITY DISTRIBUTION IN GALLIUM ARSENIDE SINGLE CRYSTALS GROWN BY CZOCHRALSKIS METHOD 67-01 M15-57652
THE EFFECTIVE IONIZATION RATE FOR HOT CARRIERS IN GAAS 67-01 M16-57986
TRANSIENT PHENOMENA IN THE CAPACITANCE OF GAAS SCHOTTKY BARRIER DIODES 67-02 M16-60519
VAPOR PHASE GROWTH OF GALLIUM ARSENIDE MICROWAVE DIODES 67-02 M16-61501
BEHAVIOUR OF SELENIUM IN GAAS 67-03 M16-65387
THE APPLICATION OF CRYSTAL FIELD THEORY TO THE ELECTRICAL PROPERTIES OF CO IMPURITIES IN GAP 67-04 M16-66757
CATHODOLUMINESCENCE OF P-TYPE GAAS 67-04 M16-66761
INTERVALLEY SCATTERING RATE AND HIGH-FIELD ELECTRON DISTRIBUTIONS IN GAAS 67-04 M16-66781
SPACE-CHARGE CURRENTS IN N-TYPE GAAS 67-05 M16-69298
LIFETIME IN SINGLE CRYSTALS OF GALLIUM ARSENIDE 67-06 M16-71830
INFLUENCE OF FAST-ELECTRON BOMBARDMENT ON THE SPECTRA OF PHOTOCONDUCTIVITY OF GAAS CRYSTALS GROWN IN AN OXYGEN ATMOSPHERE 67-06 M16-71918
FIELD DISTRIBUTION IN N-TYPE GAAS UNDER HIGH ELECTRIC FIELD 67-06 M16-72047
THE THERMAL CONDUCTIVITY OF GAP AND ALSB 67-07 M15-72750
THE SURFACE DAMAGE OF HIGH OUTPUT GALLIUM ARSENIDE LASERS 67-07 M16-72923
AN ASSESSMENT OF EPITAXIAL GALLIUM ARSENIDE FOR USE IN GUNN EFFECT DEVICES 67-07 M16-72925
MAGNETORESISTANCE 67-07 M16-74207
GALLIUM ARSENIDE FETS OUTPERFORM CONVENTIONAL SILICON MOS DEVICES 67-09 M16-76640
CURRENT SATURATION IN THE EVAPORATED GAAS FILMS 67-09 M16-77453
EFFECT OF DONOR IMPURITY CONCENTRATION ON THE PIEZORESISTANCE OF N-TYPE GASB 67-10 M15-79015
IMPROVEMENT OF QUANTUM EFFICIENCY IN GALLIUM ARSENIDE ELECTROLUMINESCENT DIODES 67-10 M15-79121
TRAP LEVELS IN GALLIUM ARSENIDE 67-10 M15-79122
A CALCULATION OF NOISE IN SENSITIZED GAAS 67-11 M15-80937
MEASUREMENTS OF NOISE IN SENSITIZED GAAS 67-11 M15-80938

GALLIUM COMPOUNDS, IRRADIATION
ANALYSIS OF N-TYPE GAAS WITH ELECTRON-BEAM-EXCITED RADIATIVE RECOMBINATION 67-05 M16-68620

GALLIUM COMPOUNDS, MAGNETIC PROPERTIES
OSCILLATORY MAGNETO-ABSORPTION OF THE DIRECT TRANSITION IN THE LAYER COMPOUND GALLIUM SELENIDE AT 1.5 K 67-04 M16-66750

GALLIUM COMPOUNDS, MECHANICAL PROPERTIES
THIRD ORDER ELASTIC CONSTANTS OF GALLIUM ARSENIDE 67-01 M17-57449
INVESTIGATION OF THE INITIAL STAGE OF DEFORMATION OF GALLIUM ARSENIDE SINGLE CRYSTALS 67-01 M17-57650
INFLUENCE OF DOPING ON THE PLASTIC DEFORMATION OF GALLIUM ARSENIDE SINGLE CRYSTALS 67-06 M17-70514
ELASTIC MODULI OF GAAS AT MODERATE PRESSURES AND THE EVALUATION OF COMPRESSION TO 250 KBAR 67-09 M17-77454
THIRD-ORDER ELASTIC MODULI OF GALLIUM ARSENIDE 67-10 M17-79163
PREPARATION OF GALLIUM SELENIDE MONOCRYSTAL AND DETERMINATION OF ITS ELASTIC CONSTANTS 67-10 M17-79247

GALLIUM COMPOUNDS, METALLOGRAPHY
ENHANCED GAAS ETCH RATES NEAR THE EDGES OF A PROTECTIVE MASK 67-02 M13-61772

GALLIUM COMPOUNDS, OPTICAL PROPERTIES
PHOTOLUMINESCENCE OF EPITAXIAL N-TYPE GAAS AT 20 K 67-03 M16-65747
PHOTOLUMINESCENCE OF CU-DOPED GALLIUM ARSENIDE 67-03 M16-65889
LOCALIZED MODES OF SUBSTITUTIONAL IMPURITIES IN INTERMETALLIC COMPOUNDS 67-04 M16-66744
EDGE ABSORPTION AND PHOTOLUMINESCENCE IN DISORDERED GALLIUM ARSENIDE 67-04 M16-66760
OPTICAL REFLECTION OF GALLIUM PHOSPHIDE, GALLIUM ARSENIDE, AND THEIR SOLID SOLUTIONS 67-05 M16-69382
THE INFRARED FARADAY EFFECT IN P-TYPE SEMICONDUCTORS 67-06 M16-72088
ABSORPTION OF INFRARED RADIATION BY FREE CARRIERS IN N-GAAS 67-10 M15-79447
ELECTROREFLECTANCE MEASUREMENTS ON GAXIN1-XAS ALLOYS 67-11 M16-80326

GALLIUM COMPOUNDS, PHASES /STATE OF MATTER/
NEW HIGH PRESSURE PHASES HAVING THE CORUNDUM STRUCTURE 67-04 M13-67364

GALLIUM COMPOUNDS, PHOTOCONDUCTORS
OPTICALLY AND THERMALLY EXCITED CURRENT CARRIER TRANSITIONS WITH SURFACE TRAPS IN GAAS 67-05 M16-68339

GALLIUM COMPOUNDS, PHYSICAL PROPERTIES
SOME CHARACTERISTICS OF GAAS-GE EPITAXY 67-02 M16-61083
GALLIUM ARSENIDE PLANAR TECHNOLOGY 67-04 M16-67101
DISSOCIATION PRESSURE OF INDIUM ARSENIDE, GALLIUM ARSENIDE, AND GALLIUM PHOSPHIDE 67-11 M15-80161

GALLIUM COMPOUNDS, RADIATION EFFECTS
EVIDENCE FOR DAMAGE REGIONS IN SI, GAAS, AND INSB SEMICONDUCTORS BOMBARDED WITH HIGH-ENERGY NEUTRONS 67-10 M16-79168

GALLIUM COMPOUNDS, REACTIONS /CHEMICAL/
A METHOD OF PRODUCING HETEROJUNCTIONS BETWEEN COMPOUND SEMICONDUCTORS BY ALLOYING AND SUBSTITUTION REACTION 67-02 M16-59075
PROCESSING OF V3GA WIRES AND THEIR SUPERCONDUCTING PROPERTIES 67-02 M16-60517
GALLIUM ARSENIDE ELECTRODE BEHAVIOR 67-07 M14-73455

GALLIUM COMPOUNDS, SEMICONDUCTORS
HEAT CONDUCTIVITY STUDY OF GASE MONOCRYSTALS 67-03 M15-65230
ELECTROREFLECTANCE MEASUREMENTS WITH THE

GALLIUM COMPOUNDS

ELECTROLYTE METHOD IN INFRARED
67-03 M16-65137
THE BEHAVIOR, IN TIME, OF CONTINUOUSLY OPERATED GAAS LASER DIODES 67-03 M16-65437
MIXED SCATTERING IN 3-V COMPOUNDS
67-04 M16-66782
SOME ELECTRICAL PROPERTIES OF THE SEMI-CONDUCTOR BETA-GA2O3 67-05 M16-69574
GALLIUM ARSENIDE 67-07 M16-72913
ELECTRIC CONDUCTIVITY STUDIES OF P-GATE POLYCRYSTALS AND SINGLE CRYSTALS IN STRONG ELECTRIC FIELDS 67-08 M16-75218
PREPARATION AND PROPERTIES OF GAAS-SI HETEROJUNCTIONS BY SOLUTION GROWTH METHOD
67-11 M16-80814
PHOTOCONDUCTIVITY OF CHROMIUM-DOPED GALLIUM ARSENIDE 67-12 M15-82363
ABOUT THE ROLE OF MINORITY CARRIERS IN THE IMPURITY CONDUCTION OF GASB 67-12 M16-82014
EFFECTS OF LOW-TEMPERATURE ELECTRON IRRADIATION ON THE ELECTRICAL PROPERTIES OF UNDOPED GASB
67-12 M16-82533

GALLIUM COMPOUNDS, SEMICONDUCTORS,
GROWTH PYRAMIDS IN EPITAXIAL GAAS
67-01 M14-57448

GALLIUM COMPOUNDS, SOLUBILITY
THE SOLID SOLUBILITY LIMITS OF ZINC IN GAAS AT 1000 C 67-12 M14-82290

GALLIUM COMPOUNDS, SUPERCONDUCTIVITY
PROCESSING OF V3GA SUPERCONDUCTING WIRES
67-04 M16-67576

GALLIUM COMPOUNDS, THERMAL PROPERTIES
ON THE MECHANISM OF THERMAL CONDUCTIVITY IN --GASB--3X---GA2TE3--1-X AND --GASB--X---GATE--1-X SOLID SOLUTIONS 67-08 M15-75237
THERMAL-EXPANSION COEFFICIENTS OF SELENIUM AND GALLIUM SELENIDE FROM X-RAY STRUCTURAL ANALYSIS DATA IN ASSOCIATION WITH THE CHEMICAL BOND
67-11 M13-80176
THERMODYNAMIC PROPERTIES OF INDIUM AND GALLIUM ANTIMONIDES AND GALLIUM ARSENIDE
67-11 M15-80160
DETERMINATION OF THE HEAT OF FORMATION OF INDIUM AND GALLIUM PHOSPHIDES BY COMBUSTION IN A CALORIMETER BOMB 67-11 M15-80162
INVESTIGATION OF THE THERMAL CONDUCTIVITY OF INSB-GASB SOLID SOLUTIONS 67-11 M15-80229

GALLIUM COMPOUNDS, THIN FILMS
CARRIER-CONCENTRATION PROFILES OF N-TYPE SN AND TE DOPED EPITAXIAL GAAS FILMS 67-03 M16-65430
APPLICATION OF X-RAY METHODS TO THE STUDY OF THE REAL STRUCTURE OF MONOCRYSTALLINE EPITAXIAL LAYERS 67-08 M16-75239

GALLIUM COMPOUNDS, TRANSPORT PROPERTIES
HIGH-TEMPERATURE HALL EFFECT IN GASB
67-02 M15-61692
CONDUCTION BAND OF GASB 67-02 M15-61693
ELECTRICAL PROPERTIES OF N-TYPE EPITAXIAL GALLIUM ARSENIDE 67-02 M16-61507
IONIZATION ENERGY AND IMPURITY BAND CONDUCTION OF SHALLOW DONORS IN N-GALLIUM ARSENIDE
67-04 M16-66510
THE STRUCTURE OF THE CONDUCTION BAND AND THE ANISOTROPY OF THE ELECTRON SCATTERING IN N-GAAS
67-04 M16-66766
LOW TEMPERATURE TRANSPORT EFFECTS IN N-TYPE GASB AT HIGH MAGNETIC FIELDS 67-04 M16-66767
MECHANISM OF THE GUNN EFFECT 67-04 M16-66780
VARIATION OF DRIFT VELOCITY WITH FIELD IN GAAS
67-04 M16-68074
DETERMINATION OF THE NEGATIVE DIFFERENTIAL MOBILITY ON N-TYPE GALLIUM ARSENIDE USING 8 MM-MICROWAVES
67-05 M16-69376
DEPENDENCE OF CARRIER MOBILITY ON TEMPERATURE IN GAAS CRYSTALS IRRADIATED BY FAST ELECTRONS
67-06 M16-71762
MOBILITY OF MINORITY CARRIES IN DEGENERATE GALLIUM ARSENIDE 67-06 M16-71772
MOBILITY OF MINORITY CARRIERS IN DEGENERATE GALLIUM ARSENIDE 67-06 M16-71926
OHMIC CONTACTS TO GAAS BY A SIMPLE LOW TEMPERATURE ALLOYING PROCESS 67-06 M16-72179
PHOTOCONDUCTIVE AND PHOTO-HALL MEASUREMENTS ON HIGH-RESISTIVITY GAP 67-07 M15-72632
PROPERTIES OF GALLIUM ARSENIDE CRYSTALS PRODUCED BY LIQUID ENCAPSULATION PULLING 67-07 M16-72920
EFFECTS OF HIGH PRESSURE, UNIAXIAL STRESS AND TEMPERATURE ON THE ELECTRICAL RESISTIVITY OF N-GAAS 67-07 M16-73945
SOME KEY FEATURES OF 3-V COMPOUNDS
67-07 M16-74202
MICROWAVE MEASUREMENT OF DIFFERENTIAL NEGATIVE CONDUCTIVITY DUE TO INTERVALLEY TRANSFER OF HOT ELECTRONS IN N-TYPE GAAS 67-08 M16-74470
ELECTROLUMINESCENCE AND CRYSTALLOGRAPHIC POLARITY OF GALLIUM ANTIMONIDE 67-08 M16-74609
INFLUENCE OF HYDROSTATIC COMPRESSION AND OF THE TEMPERATURE ON THE CHARACTERISTICS OF P-N TUNNEL JUNGTIONS IN GAAS 67-09 M15-76776
HALL EFFECT OF N-TYPE GAAS IN HIGH ELECTRIC FIELDS
67-09 M15-77175
GAAS-INSB GRADED-GAP HETEROJUNCTION
67-09 M16-78062
THE CONCENTRATION OF CHARGE CARRIERS IN A SEMICONDUCTOR ILLUMINATED BY A LASER
67-10 M15-79469
TEMPERATURE DEPENDENCE OF PHOTOLUMINESCENCE IN CADMIUM-DOPED EPITAXIAL GAAS 67-10 M16-79161
INTERBAND CARRIER TRANSFER IN GAAS AT HIGH PRESSURES 67-10 M16-79360
NOISE IN CU-GAAS 67-10 M16-79367
DEEP ACCEPTORS IN IRON-DOPED GALLIUM ARSENIDE
67-11 M15-80634
THE ROLE OF ACCEPTORS IN THE LUMINESCENCE OF N-TYPE GAAS 67-11 M15-81677

GALLIUM COMPOUNDS, X RAY ANALYSIS
INDENTIFACTION BY X-RAY DIFFRACTION OF HYDRATED CRYSTALLIZED GALLIUM SULFATE. ISOTOPIC RELATION IN THE SERIES OF CHROMIUM, ALUMINUM AND GALLIUM SULFATES 67-12 M13-82236

GALVANIC CELLS
SEE ELECTROLYTIC CELLS

GALVANIC CORROSION
SEE ALSO STRAY CURRENT CORROSION
ELECTROCHEMICAL STUDIES ON CORROSION RESISTANCE OF NICKEL-CHROMIUM ELECTROPLATES
67-01 M18-58236
GALVANIC EFFECTS IN VACUUM DEPOSITED THIN FILMS
67-02 M18-59454
THE EFFECTS OF CLO ION ON THE CORROSION BEHAVIORS OF STAINLESS STEELS IN CONCENTRATION CAUSTIC SODA SOLUTIONS 67-02 M18-59736
PROGRESS IN THE BATTLE WITH CORROSION OF AUTOMOBILES 67-03 M18-65975
CORROSION BEHAVIOR OF ELECTROPLATES. PT. 2. CORROSION CURRENTS IN ZINC-STEEL AND CADMIUM-STEEL COUPLES AND DECAY CHARACTERISTICS OF STEEL
67-04 M18-66286
GUIDELINES DEVISED FOR CORROSION PROTECTION OF FERROUS PIPELINES UNDERGROUND
67-04 M18-66601
GALVANIC PITTING IN METALLIC COATINGS
67-04 M18-66715
ANODIC BEHAVIOR OF CU-NI ALLOYS IN AQUEOUS AMMONIUM SOLUTIONS 67-04 M18-67276
PASSIVATION OF CHROMIUM IN ALKALI SOLUTIONS
67-04 M18-67277
CORROSION AND ELECTROCHEMICAL BEHAVIOR OF FE-CR ALLOYS IN BOILING CONCENTRATED HNO3
67-04 M18-67279
CREVICE CORROSION OF TITANIUM IN SULFURIC ACID
67-04 M18-67280
ANODIC DISINTEGRATION OF METALS UNDERGOING ELECTROLYSIS IN AQUEOUS SALT SOLUTIONS
67-05 M18-69475
OBSERVATIONS OF ZINC ATTACK ON STEEL PANS AND THERMOCOUPLE TUBES IN GAS FIRED WIRE GALVANIZING FURNACES 67-06 M18-71593
ANODIC CORROSION OF NICKEL SINTER IN POSITIVE ELECTRODES OF NICKEL-CADMIUM BATTERIES CONTAINING CARBONATE 67-06 M18-71689
DEGRADATION MECHANISMS OF PLATINUM- AND RHODIUM-COATED TITANIUM ANODES IN THE ELECTROLYSIS OF CHLORIDE AND CHLORIDE-CHLORATE SOLUTIONS
67-06 M18-71697
ANODIZING TITANIUM 67-07 M12-73628
ALUMINUM GALVANIC ANODES. PT. 1
67-08 M18-75355
ALUMINUM GALVANIC ANODES. PT. 2
67-08 M18-75373
CORROSION RESISTANCE OF STAINLESS STEELS IN AQUEOUS SOLUTIONS. PT. 2 67-10 M18-78399
SOME CORROSION PROBLEMS IN CONNECTION WITH THE WELDING OF STEEL 67-10 M18-78458
SOME PHENOMENA OBSERVED RELATING TO FILIFORM CORROSION 67-10 M18-78586
GALVANIC CORROSION CHARACTERISTICS OF ALUMINUM ALLOYED WITH GROUP 4 METALS 67-10 M18-79962

STUDY OF THE ELECTROCHEMICAL PROPERTIES OF MANGANESE DURING OPERATION OF CHEMICAL CURRENT SOURCES 67-11 M18-80428
SCIENCE FOR ELECTROPLATERS. PT. 117 67-11 M18-80668
CORROSION AND CORROSION PRODUCT DEPOSITION IN STEEL-COPPER SYSTEMS WITH CIRCULATING HOT WATER CONTAINING VARIOUS INHIBITORS 67-11 M18-80713
CORROSION OF ALUMINUM ALLOYS IN CONTACT WITH STEELS AND LININGS OF PETROLEUM VESSELS 67-11 M18-81284
ANODIC DISSOLUTION OF COPPER-ZINC ALLOYS IN ALKALINE SOLUTIONS 67-11 M18-81548

GALVANIC CORROSION TESTS
INFLUENCE OF MONONITROANILINES AND MONONITROPHENOLS ON CORROSION OF TITANIUM IN SULFURIC AND HYDROCHLORIC ACIDS 67-04 M18-67282
SOLUTIONS FOR INDICATION OF BASIS METAL CORROSION 67-07 M18-72773
INTERPRETATION OF SURFACE POTENTIALS IN CORROSION TESTS, IN PARTICULAR, STEEL EMBEDDED IN CONCRETE 67-08 M18-74938

GALVANIZED IRON, COATING
PLASTIC COATING OF STEEL SHEETS 67-01 M12-57211

GALVANIZING
CONTINUOUS GALVANIZING LINE IN WAKAYAMA STEEL WORKS 67-01 M12-58252
STRUCTURE OF HOT GALVANIZED COATINGS. PT. 2. EFFECT OF ALUMINUM ADDITIONS 67-01 M12-58304
NEW PROCESSES FOR GALVANISING WIRE 67-01 M12-58575
HOW ZINC CONTROLS CORROSION 67-01 M18-57981
ZINC AND ITS ALLOYS--APPLICATIONS 67-03 M18-65451
COIL-COATING FINISHES 67-04 M12-67749
FROM STRIP TO GALVANIZED TUBING IN ONE CONTINUOUS OPERATION 67-04 M12-67766
BETHLEHEMS PINOLE POINT GALVANIZING FACILITY IS IN OPERATION 67-04 M12-68110
ZINC PAINTS YIELD OPTIMUM CORROSION RESISTANCE 67-04 M18-66333
NEW DEVELOPMENTS IN THE METHODS FOR HOT GALVANIZING OF STRIP 67-06 M12-71504
CONTINUOUS STEEL SHEET GALVANIZING LINE IN CALIFORNIA 67-06 M12-71552
ZINC AND ALUMINIUM DIFFUSION COATINGS 67-06 M12-72184
THE TECHNOLOGY OF HOT GALVANIZING 67-07 M12-73231
BALL BLANKET CUTS FUMES AT GALVANIZING PLANT 67-07 M12-73645
HOT DIP GALVANIZING AS CORROSION PROTECTION 67-07 M18-73232
THE CORROSION PROTECTION OF STEEL STRUCTURES BY SPRAY GALVANIZING 67-07 M18-73233
CORROSION BEHAVIOR OF ZINC DUST-CONTAINING PAINTS AND OF HOT DIP GALVANIZED COATINGS IN INDUSTRIAL ATMOSPHERES 67-07 M18-73236
LEAD AND ZINC--PARTNERS IN PROGRESS 67-07 M20-74293
DEVELOPMENTS IN PRETREATMENT AND FINISHING OF ZINC-COATED PRODUCTS 67-08 M12-74396
FIVE YEAR TEST RESULTS--AISI RESEARCH PROJECT ON PAINTABILITY OF GALVANIZED STEEL 67-08 M12-74475
ELECTROFORMING--A NEW PROCESS 67-08 M12-74569
PROGRESS WITH ZINC-COATED STEEL 67-08 M12-74950
EFFECT OF MANUFACTURING CONDITIONS ON THE APPLICABILITY OF ZINC-COATED STEEL WIRE 67-08 M12-75394
THE EFFECT OF CU DISSOLVED IN ZN ON HOT GALVANIZING 67-08 M12-75512
THE GALVANIZING OF SINTERED MATERIALS 67-08 M12-75639
START-UP AND ADJUSTMENT OF A ROLLER FURNACE IN A CONTINUOUS HOT GALVANIZING UNIT 67-08 M12-76284
RESISTANCE SPOT WELDING OF THIN GALVANIZED STEEL SHEETS 67-09 M11-77657
THE WELDING OF GALVANIZED STEEL AND ZINC RICH PAINTED STEEL 67-09 M11-77658
SPOT WELDING GALVANIZED STEEL 67-09 M11-77659
IMPROVED QUALITY AND SAVING OF MATERIALS DURING HOT GALVANIZING OF GAS AND WATER PIPES 67-09 M12-76841
FORDS LUXURY CARS PRIMED BY ELECTROCOATING 67-09 M12-77389
HEATING ARRANGEMENTS IN A GALVANIZING PLANT 67-09 M12-77642
SURFACE PREPARATION BY GRIT BLASTING 67-09 M12-77643
ACID PICKLING PLANT 67-09 M12-77644
CHEMICAL METHODS OF SURFACE PREPARATION 67-09 M12-77645
THE COMPOSITION AND PROPERTIES OF MOLTEN GALVANIZING FLUXES 67-09 M12-77646
COMPARISON OF GALVANIZED WELDED AND UNWELDED TUBES 67-09 M12-77647
THE SENDZIMIR PROCESS APPLIED TO WIRE GALVANIZING 67-09 M12-77648
EFFECT OF GALVANIZING CONDITIONS ON THICKNESS, STRUCTURE AND PROPERTIES OF GALVANIZED COATINGS 67-09 M12-77649
THE INFLUENCE OF STEEL AND OF GALVANIZING CONDITIONS ON THE PROPERTIES OF GALVANIZED SHEET AND STRIP 67-09 M12-77650
EFFECT OF ALLOYING ELEMENTS ON THE PROPERTIES OF HOT DIP GALVANIZED COATINGS 67-09 M12-77651
ALLOY FORMATION IN HOT DIP GALVANIZING.. SOME CURRENT EXPERIMENTS 67-09 M12-77653
GALVANIZING BEHAVIOUR OF COMMERCIAL STEEL SHEET MATERIALS 67-09 M12-77654
RECENT EXAMPLES OF EXPOSED GALVANIZED PAINTED PANELS AND STRUCTURES 67-09 M12-77661
PROGRESS, PROBLEMS AND POTENTIAL IN HOT DIP GALVANIZING 67-09 M12-77663
A CONSUMER REPORT ON THE PERFORMANCE OF GALVANIZED STRUCTURAL STEEL 67-09 M12-77664
GALVANIZED STEEL SHEET.. ITS USE IN ITALY 67-09 M12-77665
EFFECT OF HOT DIP GALVANIZING OF WIRE ON THE THICKNESS AND STRUCTURE OF ZINC COAT 67-09 M12-78284
THE EFFECT OF HOT DIP GALVANIZING ON THE MECHANICAL PROPERTIES OF ANNEALED WIRE, WIRE DRAWN DIRECTLY FROM RODS AND WIRE DRAWN AFTER PATENTING 67-09 M17-77500
PAINTING HOT DIP GALVANIZED SHEET--EXPERIMENTAL RESULTS IN DIFFERENT ATMOSPHERES 67-09 M18-77660
THE CASE FOR GALVANIZED BRIDGES 67-09 M18-77666
THE SELECTION OF CHEMICAL TREATMENTS OF ANTICORROSION PROTECTION AND PAINT ADHESION ON METAL SURFACES--A CONTINUOUS COAT 67-09 M18-77704
COMPARISON OF VARIOUS METHODS FOR DETERMINING THE THICKNESS OF GALVANIZED COATINGS, OF THE IRON-ZINC ALLOY LAYERS AND OF THE PURE ZINC LAYER 67-09 M19-77656
PROTECTION OF TUBES IN THE OIL INDUSTRY 67-10 M12-78543
THE HOT DIP GALVANIZING INDUSTRY 67-10 M12-78558
STANDARD MILL IS MODIFIED TO PRODUCE GALVANIZED TUBING 67-10 M12-78579
ZINC IN ANTICORROSION COATINGS 67-10 M12-78918
INTRODUCING AND RUNNING IN THE STRAIGHT-LINE FURNACE OF A CONTINUOUS HOT ZINC-PLATING PLANT 67-10 M12-79277
THE HOT-DIP GALVANIZING OF SEMIFINISHED AND FINISHED PRODUCTS 67-10 M12-79399
ZINC FOR CORROSION PROTECTION. PT. 2 67-10 M12-79441
STUDIES ON THICKNESS OF HOT DIPPED ZINC COATING. PT. 2 67-10 M12-79605
HOT DIP GALVANIZING--NEW METHODS FOR AN OLD PROCESS 67-11 M12-80662
USE OF SHEET PRETREATED BY ZINC COATING IN THE FABRICATION OF CABINETS FOR ELECTRICAL APPARATUS 67-11 M18-81236
NEW APPLICATIONS OF HOT GALVANIZED STEEL SHEET 67-11 M20-80299
PROBLEMS AND NOTES ON THE MANUFACTURE OF STEEL WIRES FOR ACSR OVERHEAD TRANSMISSION LINES 67-12 M01-82652
FINISH COATING OF STEEL STRIP COILS 67-12 M12-82886
INTRODUCTION OF A UNIT FOR CONTINUOUS GALVANIZING OF TUBES 67-12 M12-83477

GALVANIZING, ALLOYING EFFECTS
THE EFFECTS OF SILICON ADDITIONS TO THE BATH IN GALVANIZING WITH SHORT DIPPING TIMES 67-09 M12-77652
HOT DIP GALVANIZING WITH LESS COMMON BATH ADDITIONS

GALVANIZING
67-09 M12-77655
GALVANIZING, COMPOSITION EFFECTS
THE EFFECT OF C, SI AND AL ON THE THICKNESS OF THE GALVANIZED LAYER ON STEEL STRIP
67-09 M12-77205
GALVANNEALING
SEE ANNEALING
GALVANIZING
GALVANOMAGNETIC EFFECT
SEE ELECTROMAGNETISM
GALVANOMAGNETISM
SEE ELECTROMAGNETISM
GAMMA ACTIVATION ANALYSIS
SEE NEUTRON ACTIVATION ANALYSIS
GAMMA IRON, DIFFUSION
DIFFUSIVITY AND SOLUBILITY LIMIT OF COPPER IN ALPHA AND GAMMA IRON 67-04 M14-67267
GAMMA IRRADIATION
SEE GAMMA RAYS
IRRADIATION
GAMMA PHASE
SEE ALSO GAMMA PRIME PHASE
FORMATION OF GAMMA PHASE IN QUENCHED IRON AND ALLOYED FERRITE 67-02 M14-61220
REINVESTIGATION OF THE TITANIUM-RICH REGION OF THE TITANIUM-ALUMINUM EQUILIBRIUM DIAGRAM
67-02 M14-61776
NEW G PHASES 67-05 M13-68485
DECOMPOSITION OF GAMMA PHASE IN URANIUM ALLOYS CONTAINING 8, 10.8, AND 14.3 WT PER CENT MOLYBDENUM 67-05 M14-68722
VACANCY-DEFECTIVE INTERMEDIATE PHASES
67-06 M14-70415
THE GAMMA LOOP IN THE FE-AL SYSTEM
67-07 M13-74175
THE TEMPERATURE OF DISPLACEMENT GAMMA-TO-ALPHA TRANSFORMATION IN IRON 67-11 M13-80741
GAMMA PHASE, DIFFUSION
SELF-DIFFUSION IN HIGHLY-DILUTED BINARY SOLUTIONS. PT. 3. EFFECT OF SN, SB, PB AND BI PHASE
67-04 M14-67919
GAMMA PHASE, PRECIPITATION
PRECIPITATES IN CU-NI-ZN-SI ALLOYS
67-05 M14-68582
GAMMA PHASE, STRESS EFFECTS
DIMENSIONAL CHANGES IN THE ALPHA-GAMMA TRANSFORMATION OF IRON 67-04 M15-67413
GAMMA PHASE, THERMODYNAMICS
THERMODYNAMIC PROPERTIES OF THE GAMMA PHASE OF THE URANIUM-ZIRCONIUM SYSTEM 67-06 M15-70946
GAMMA PRIME PHASE
MICROSTRUCTURE OF PRECIPITATION STRENGTHENED NICKEL-BASE SUPERALLOYS 67-02 M13-61103
PRECIPITATION DURING AGING AT 700 C. OF A COMMERCIAL AUSTENITIC STEEL CONTAINING TITANIUM AND ALUMINIUM 67-04 M14-67020
THE EFFECT OF A THIRD COMPONENT ADDED TO NICKEL-ALUMINUM ALLOYS ON THE THERMODYNAMIC PROPERTIES OF THE GAMMA AND GAMMA-PRIME PHASE
67-06 M15-70368
GAMMA PRIME PHASE, CRYSTAL STRUCTURE
THE STRUCTURE OF THE GAMMA PRIME-PHASE IN NICKEL-BASE SUPERALLOYS 67-06 M14-71427
GAMMA PRIME PHASE, PRESSURE EFFECTS
EFFECT OF HYDROSTATIC PRESSURE ON GAMMA PRIME PRECIPITATION IN RENE 41 67-06 M14-71617
GAMMA RADIATION
SEE GAMMA RAYS
GAMMA RADIOGRAPHY
SEE RADIOGRAPHY
GAMMA RAY SPECTROSCOPY
NUCLEAR TECHNIQUES IN NONDESTRUCTIVE TESTING
67-07 M19-73130
GAMMA RAYS
POSSIBLE USE OF CADMIUM TELLURIDE FOR N-P GAMMA-RAY DETECTORS 67-05 M16-68400
NUCLEAR GAMMA RESONANCE IN HIGHLY DISPERSED TIN
67-05 M16-69030
PROCESS ENGINEERING USES OF RADIOACTIVE ISOTOPES
67-09 M19-78104
GAMMA-IRRADIATION EFFECT ON THE THERMAL CONDUCTIVITY OF AL2O3 WITH CR OR MN IMPURITIES AT LOW TEMPERATURE 67-11 M15-80225
RADIOMETRIC DETERMINATION OF THORIUM IN MIXED OXALATES OF URANIUM AND THORIUM
67-12 M19-82270
GAMMA RAYS, RADIATION EFFECTS
INFLUENCE OF GAMMA RADIATION ON ELECTRICAL RESISTANCE OF VAPOR DEPOSITED THIN FILMS OF AG, AL, NI AND PERMALLOY 67-06 M16-72376
GAMMA TRANSFORMATION
THE PLASTIC DEFORMATION OF SILICON FERRITE OCCURRING DURING THE MARTENSITIC TRANSFORMATION
67-03 M14-65445
THE MARTENSITE TRANSFORMATION IN SMALL --0.1-0.3 MM-- IRON-NICKEL SINGLE CRYSTALS
67-04 M14-66054
DETERMINATION OF THE INITIAL TEMPERATURE OF THE MARTENSITE TRANSFORMATION 67-04 M14-67132
THE DILATOMETRIC EFFECT ON THE ALPHA-GAMMA TRANSFORMATION IN A TEXTURED IRON-NICKEL ALLOY
67-05 M14-68838
OBSERVATION OF ALPHA/GAMMA TRANSFORMATION ON PURE IRON SURFACES IN THE ELECTRON MICROSCOPE
67-09 M14-76466
GARNET, BENEFICIATION
EFFECT OF LOW-MOLECULAR WEIGHT ALIPHATIC ACIDS IN FLOTATION OF CASSITERITE, TANTALITE AND GARNET
67-02 M02-59545
INTERACTION OF RUTILE AND GARNET WITH FLOTATION REGULATORS 67-02 M02-61714
GARNET, MAGNETIC PROPERTIES
HIGH-TEMPERATURE RESONANCE LOSSES IN SILICON-DOPED YTTRIUM-IRON GARNET --YIG-- 67-10 M15-79408
GARNET, TRANSPORT PROPERTIES
PHOTOCONDUCTIVITY IN GARNETS 67-10 M16-79366
GAS
SEE GASES
GAS ALLOYING
PRACTICAL EXPERIENCES OF GASEOUS CEMENTATION BY GRANULES 67-12 M10-82142
GAS ANALYSIS
GAS CONTENT OF MEDIUM-CARBON STEEL
67-01 M04-57474
RELATION BETWEEN THE RATE OF DIRECT REDUCTION AND TOP GAS RATIO 67-01 M04-57907
DETERMINATION OF OXYGEN BY REDUCTIVE MELTING UNDER A STREAM OF ARGON. STUDY OF BLANKS. APPLICATIONS FOR ANALYSIS OF REFRACTORY METALS AND ALLOYS
67-01 M19-57610
MEASUREMENTS OF OXIDATION-REDUCTION RATE OF IRON AND OF OXYGEN PRESSURE IN OXIDE MELTS
67-02 M04-59152
DETERMINATION OF THE EFFICIENCY, CARBON CONSUMPTION AND OTHER PARAMETERS OF THE BLAST FURNACE PROCESS FROM BLAST FURNACE GAS COMPOSITION
67-02 M04-59859
CALCULATING THE INDEXES OF BLAST FURNACE HEAT STATE
67-02 M04-60054
THE REDUCING WORK OF GASES IN THE SHAFT OF A BLAST FURNACE WHEN NATURAL GAS IS USED
67-02 M04-61862
BURNING AND DISTRIBUTION OF GAS JETS IN A BLAST FURNACE AT VARIOUS TUYERE PROJECTIONS
67-02 M04-62257
MECHANISMS OF GAS FORMATION IN THE OXYGEN CONVERTER PROCESS AND FEASIBILITY OF USING THEM FOR CONTROLLING THE MELT. PT. 1 67-02 M04-62260
THE EFFECT OF OXYGEN ADSORPTION ON THE OXYGEN ANALYSIS OF HIGH-CARBON IRON SPECIMEN CONTAINING GRAPHITE 67-02 M06-59124
APPARATUS AND CONTROL OF CUPOLA MELTING USING CHEMICAL COMPOSITION OF FLUE GASES
67-02 M06-62003
EFFECT OF OXYGEN ON THE RECRYSTALLIZATION OF TANTALUM 67-02 M14-62082
NONDESTRUCTIVE MATERIAL TESTING IN THE PRODUCTION OF FUEL ELEMENTS 67-02 M16-60022
HYDROGEN DETERMINATION IN MAGNOX AL 80 AND MAGNOX ZN 55 BY VACUUM SUBLIMATION 67-02 M19-59414
RAPID DETERMINATION OF OXYGEN IN METALS BY RADIOACTIVATION 67-02 M19-62066
HYDROGEN ATTACK OF STEEL UNDER DYNAMIC EXPOSURE CONDITIONS 67-03 M18-65405
DETERMINING THE DEGREE OF UTILIZATION OF HYDROGEN IN THE BLAST FURNACE 67-04 M04-66202
ANALYSIS OF BLAST FURNACE TOP GAS. IMPROVEMENTS FOR PRACTICAL USE OF INFRARED RAY ANALYZERS. PT. 1
67-04 M04-67511
GASEOUS REDUCTION IN THE BLAST-FURNACE STACK DURING THE USE OF NATURAL GAS 67-04 M04-67681
ON THE PROCESS OF EVOLUTION OF HYDROGEN FROM ALUMINIUM HEATED IN VACUO BELOW THE MELTING POINT 67-04 M19-67572
AUTOMATED CONTINUOUS ANALYSIS OF BLAST FURNACE GAS BY MEANS OF PROCESS GAS CHROMATOGRAPHY
67-05 M02-69361
DISTRIBUTION OF SULFUR IN THE TUYERE ZONE OF THE

BLAST FURNACE 67-05 M04-68543
INVESTIGATION OF THE WORK OF GASES ACROSS THE HEIGHT AND RADIUS OF A BLAST FURNACE DURING BLOWING WITH NATURAL GAS 67-05 M04-68544
AUTOMATIC DETERMINATION OF THE CARBON DIOXIDE CONTENT IN THE GAS ALONG A BLAST FURNACE THROAT RADIUS 67-05 M04-69078
PRACTICAL ASPECTS OF INFRARED CARBON POTENTIAL INSTRUMENTATION 67-05 M19-69199
GAS CONTENT OF MEDIUM-CARBON STEELS 67-06 M04-70762
REGULATING THE EXCESS AIR IN OPENHEARTH FURNACES OF VARIOUS CAPACITY 67-06 M04-71245
DETERMINATION OF DECARBONIZING RATES IN OPENHEARTH MELTING BY THE CHEMICAL COMPOSITION OF GAS 67-06 M04-71247
SAMPLING LIQUID STEEL FOR OXYGEN DETERMINATION 67-06 M04-71369
ATMOSPHERES FOR MODERN HEAT TREATING--CONTROLLING THEIR COMPOSITION 67-06 M19-70720
CALCULATING CARBON IN THE OPENHEARTH BATH 67-06 M19-70739
METALLURGICAL APPLICATIONS OF LUFT ANALYZERS 67-06 M19-71707
NATURE OF SULPHUR DISTRIBUTION IN THE TUYERE ZONE OF THE BLAST FURNACE 67-07 M04-72454
INVESTIGATING THE WORK OF THE GAS UP AND ALONG A BLAST-FURNACE RADIUS DURING NATURAL-GAS INJECTION 67-07 M04-72455
MATHEMATICAL MODEL OF A BLAST FURNACE IN THE ZONE ABOVE THE TUYERE LEVEL 67-07 M04-72519
SULFUR IN THE GAS PHASE OF THE BLAST FURNACE WHEN OPERATING ON FLUXED SINTER AND RAW ORE 67-07 M04-73021
THE ALU-SCHMELZTESTER--A NEW INSTRUMENT FOR THE DETERMINATION OF HYDROGEN IN ALUMINUM MELTS 67-07 M19-74032
THE DETERMINATION OF HYDROGEN IN THE FREITAL SPECIAL STEEL WORKS 67-07 M19-74107
KINETICS OF THE EVOLUTION OF NITROGEN FROM MN-FE AND MN-SI ALLOYS INVESTIGATED BY MASS SPECTROMETRY 67-08 M03-75450
PROGRESS IN THE OXYGEN AND NITROGEN CONTROL IN STEEL PRODUCTION 67-08 M04-74451
DEGASSING OF CU BY HEATING IN AN ULTRAHIGH VACUUM 67-08 M06-75184
APPARATUS AND METHOD FOR MONITORING CUPOLA MELTING FROM THE COMPOSITION OF THE WASTE GASES 67-08 M06-76086
ANALYSES OF GASES EVOLVED DURING EVAPORATION 67-08 M12-75177
RESISTIVITY MEASUREMENTS OF VACUUM-RESIDUAL GASES DURING VACUUM DEPOSITION OF AU AND NI 67-08 M12-75181
IMPACT ACTIVATED SORPTION AS A MEANS FOR GAS INCORPORATION IN SPUTTERED THIN FILMS 67-08 M14-75162
INVESTIGATIONS INTO THE MECHANISM OF TRAPPING OF INERT GAS IONS IN POLYCRYSTALLINE TUNGSTEN 67-08 M15-74786
USE OF THEMAL CONDUCTIVITY GAS ANALYSIS FOR THERMODYNAMIC MEASUREMENTS ON THE DISSOCIATION OF CUO, MN2O3 AND MNO2 67-08 M15-76055
GASES IN CONVERTER STEEL SMELTED WITH STEAM-OXYGEN AND OXYGEN-CARBON MONOXIDE BLOWS 67-09 M04-76885
THE SOLUBILITY OF HYDROGEN IN IRON, NICKEL, COBALT AND COPPER AND IN THEIR BINARY NICKEL ALLOYS 67-09 M14-77195
ROLE OF CHEMICAL ANALYSIS IN STEEL PRODUCTION 67-09 M19-76419
COULOMETRIC TECHNIQUE FOR DETERMINATION OF ABSORBED HYDROGEN IN ELECTRODEPOSITS 67-09 M19-76999
HYDROGEN DETERMINATION IN ALUMINUM AND ALUMINUM ALLOYS BY ANNEALING IN A VACUUM AT 450 TO 600 C 67-09 M19-77032
A MODERN DEVICE FOR DETERMINATION OF HYDROGEN CONTENT OF ALUMINUM MELTS 67-09 M19-77075
THE DIRECT ELECTROCHEMICAL DETERMINATION OF THE OXYGEN CONTENT OF IRON BATHS. PT. 3. EFFECT OF COBALT, NICKEL, CHROMIUM AND VANADIUM ON THE ACTIVITY OF OXYGEN IN IRON BATHS 67-09 M19-77347
SIMULTANEOUS SAMPLING FOR THE SPECTROMETRIC AND GAS-ANALYTICAL ANALYSIS OF STEEL 67-09 M19-78195
OXYGEN, OXIDES, SUPERHEATING AND GRAPHITE NUCLEATION IN CAST IRON 67-10 M01-79291
PROGRESS IN THE DETERMINATION OF OXYGEN, HYDROGEN AND NITROGEN IN METALS 67-10 M19-79720
METHOD FOR INVESTIGATING DEGASSING OF STEEL DURING VACUUMING 67-11 M04-81013
VACUUM FUSION-MASS SPECTROMETRIC ANALYSIS OF GASES IN IRON AND STEEL. PT. 1. AN APPARATUS FOR THE ANALYSIS OF MICROAMOUNTS OF GASES IN IRON AND STEEL BY VACUUM FUSION-MASS SPECTROMETRY 67-11 M04-81067
RATE OF DECARBURIZATION AND DECARBURIZATION IN STEELMAKING IN THE OXYGEN CONVERTER 67-11 M04-81373
OXIDATION OF HF-TA ALLOYS 67-12 M18-82978

GAS BEARINGS, MACHINE TOOLS
AIR BEARINGS AID LINE BORING 67-09 M08-77392

GAS BEARINGS, MACHINING
LAPPING SPOT FACES ON AIR BEARING END PLATES 67-04 M08-67764

GAS BURNERS
OXY/FUEL BURNERS IN ELECTRIC ARC STEELMAKING 67-03 M04-65827
HEAT RESISTING PROPERTIES OF THIN IRON CASTINGS 67-04 M18-67113

GAS BURNERS, STRUCTURAL MATERIALS
PRODUCING POROUS PARTS OF REFRACTORY OXIDES AND ANALYSIS OF THEIR GAS PERMEABILITY 67-08 M09-75430

GAS CARBURIZING
BATCHER FOR ELECTRIC GAS CARBURIZING FURNACES 67-02 M10-58890
CARBURIZATION OF CHROMIUM STEELS IN METHANE 67-04 M10-66002
FLEXIBLE LINE MAKES QUALITY PUMP GEARS 67-06 M08-71204
HIGH TEMPERATURE GAS CARBURIZING BY INDUCTION HEATING 67-07 M10-72534
A CONTRIBUTION TO THE STUDY OF CASE-HARDENING 67-08 M10-74744
ASPECTS OF GAS CARBURIZATION BY THE INJECTION METHOD 67-09 M10-77881
SURFACE ACTIVATION IN THE HEAT TREATMENT OF METALS 67-12 M10-81938
GAS CARBURIZING 67-12 M10-83573
GAS CARBURIZING 67-12 M10-83576

GAS CHROMATOGRAPHY
CARBON DETERMINATION IN HYPERPURE ELEMENTAL BORON USING GAS CHROMATOGRAPHY 67-01 M19-58407
HYDROGEN DETERMINATION IN MAGNOX AL 80 AND MAGNOX ZN 55 BY VACUUM SUBLIMATION 67-02 M19-59414
HYDROGEN ATTACK OF STEEL UNDER DYNAMIC EXPOSURE CONDITIONS 67-03 M18-65405
DETERMINATION OF THE HYDROGEN CONTENT OF METALS BY THE CHROMATOGRAPHIC METHOD OF ANALYSIS OF GASES AFTER THEIR EXTRACTION IN HIGH VACUUM 67-05 M19-69081
ATMOSPHERES FOR MODERN HEAT TREATING--CONTROLLING THEIR COMPOSITION 67-06 M19-70720
THE APPLICATION OF A XENON FLASH DISCHARGE LAMP TO THE ANALYSIS OF THIN METAL FILMS 67-08 M19-74711
MICRODETERMINATION OF CARBON IN METALS BY GAS CHROMATOGRAPHY 67-09 M19-77810

GAS CUTTING
SEE ALSO GAS TUNGSTEN ARC CUTTING
OXYACETYLENE CUTTING
OXYGEN CUTTING
UNDERWATER CUTTING
GAS-ELECTRIC CUTTING IN CONTINUOUS CASTING OF STEEL 67-01 M11-57255
PLASMA ARC CUTTING OF ALUMINIUM ALLOYS 67-02 M11-60013
MANUAL PLASMA ARC CUTTING OF ALUMINIUM 67-02 M11-60014
USE OF POWDER CUTTING FOR THE FETTLING OF STEEL CASTINGS AND THE REMOVAL OF RUNNERS 67-02 M11-60016
A METHOD AND A DEVICE FOR FEEDING UNIFORM BATCHES OF POWDER 67-02 M11-61051
GAS-ELECTRIC CUTTING OF ALUMINUM ALLOYS IN AN ARGON-AMMONIA MIXTURE 67-02 M11-61272
GAS-ELECTRIC CUTTING OF ALUMINUM ALLOYS UP TO 150 MM THICK 67-04 M11-66478
PLASMA ARC CUTTING OF ALUMINIUM ALLOYS IN A MIXTURE OF ARGON AND AMMONIA 67-05 M11-68272
TURBULENCE THEORY OF FUSION CUTTING 67-06 M08-71219

GAS DYNAMICS
THE PROBLEM OF MEASURING THE STATIC PRESSURE OF GAS IN THE HEARTH OF A BLAST FURNACE

GAS DYNAMICS
67-12 M04-81704
GAS FIRED FURNACES
MELTING AND OVERHEATING OF IRON IN A GAS SHAFT FURNACE 67-01 M06-57322
NATURAL GAS FOR MELTING CAST IRON 67-02 M04-61688
PRECISION CONTROL IN TEMPERING OF STEEL ROLLS AT MIDVALE-HEPPENSTALL CO 67-03 M10-65471
CARBURIZING LINE AIDS QUALITY BEARING PRODUCTION 67-03 M10-65628
KAYSER ELLISON INAUGURATES BUTANE-FIRED HEAT TREATMENT PLANT 67-04 M10-66407
FUEL CONSUMPTION DURING NONSCALE HEATING OF STEELS 67-06 M10-70478
A CERAMIC-METAL CONBINATION PREHEATER FOR GAS-FIRED FORGING FURNACES 67-07 M07-74111
CONVERTING OPENHEARTH FURNACES AT CHELYABINSK TUBE ROLLING-MILLS TO RUN ON NATURAL GAS 67-08 M04-75715
AUTOMATIC TEMPERATURE CONTROL OF INDUSTRIAL FURNACES WITH FUEL RETURN 67-08 M10-75656
HEATING OF METAL IN FUSED GLASS IN NATURAL GAS-FIRED FURNACES 67-09 M10-77054
RECENT HEAT TREATMENT FURNACE INSTALLATIONS. ANNUAL SURVEY OF DEVELOPMENTS 67-10 M10-78560
GAS FIRED FURNACES, HEATING
THE HEATING TECHNOLOGY OF STEEL IN OPEN-FLAME FURNACES 67-02 M10-60796
GAS FLOW
AUTOMATIC CONTROL OF GAS DISTRIBUTION ACROSS A BLAST FURNACE USING CHARGING SYSTEMS 67-01 M04-57250
INFLUENCE OF GAS FLOW PARAMETERS ON LAYER RESISTANCE WHEN SINTERING BY THE DRAFT METHOD 67-02 M02-62259
OPTIMUM SMELTING RATES AND GAS DISTRIBUTION. --FROM THE BLAST FURNACE OPERATING PRACTICE OF THE MAGNITOGORSK COMBINE AND THE CHEREPOVETS WORK 67-02 M04-58854
EFFECT OF TUYERE GAS COMPOSITION ON GAS FLOW PARAMETERS IN THE BLAST FURNACE 67-02 M04-60723
EFFECT OF THE CHARACTERISTICS OF BLAST SUPPLY ON THE DISTRIBUTION OF GAS FLOW IN THE MELTING STOCK COLUMN 67-03 M04-65956
CONTROLLING THE BLAST-FURNACE GAS FLOW PATTERN BY CHANGING THE TUYERE OVERHANG 67-05 M04-69068
MATERIAL AND GAS FLOW DISTRIBUTION DURING CHANGES IN DISTRIBUTOR ROTATION PROGRAM 67-05 M04-69677
CHECKING GAS PRESSURE LOSSES IN THE CONTEMPORARY OPENHEARTH 67-06 M04-71876
COMPARATIVE ASSESSMENT OF THE PRODUCTION PERFORMANCE OF BLAST FURNACES 67-07 M04-72562
DISTRIBUTION OF MATERIALS AND GAS FLOW WITH CHANGES IN ROTATION PROGRAMME OF THE DISTRIBUTOR 67-07 M04-74063
INVESTIGATION OF THE CONTROL OF GAS FLOW IN BLAST FURNACES BY AUTOMATIC BLAST DISTRIBUTION 67-07 M04-74103
DEPTH OF PENETRATION OF GAS STREAM INTO LIQUID DURING HORIZONTAL GAS BLOWING 67-08 M04-74327
INVESTIGATIONS INTO THE SIGNIFICANCE OF OXYGEN TRANSFER DURING TAPPING, CASTING, EFFERVESCENCE, AND SOLIDIFICATION OF OH RIMMING STEEL 67-09 M04-77230
CERTAIN FACTORS AFFECTING GAS STATIC PRESSURE GRADIENTS OVER THE FURNACE HEIGHT 67-11 M04-81015
CONTROL AND REGULATING PERIPHERAL AND RADIAL VARIANCE IN GAS FLOW PATTERNS IN THE BLAST FURNACE BY MEANS OF TOP GAS TEMPERATURE 67-11 M04-81017
GAS FLOW PATTERNS IN BLAST FURNACE TOPS 67-11 M04-81217
HEARTH WORK DURING RUNNING-IN OF A 2000 M3 BLAST FURNACE 67-11 M04-81311
ASPECTS OF GAS TEMPERATURE DETERMINATION IN THE UPPER REACHES OF THE BLAST FURNACE 67-11 M04-81459
GAS HOLES
SEE BLOWHOLES
GAS LAWS
SEE RAOULTS LAW
GAS MAINS
SEE GAS PIPELINES
MAINS
GAS MANUFACTURE
SEE MANUFACTURED GAS
GAS METAL ARC SEAM WELDING
SEE ARC SEAM WELDING
GAS METAL ARC WELDING
GAS METAL ARC SPOT WELDING
SEE ARC SPOT WELDING
GAS METAL ARC WELDING
GAS METAL ARC WELDING
YOU CANT JUST MIG WELD 67-01 M11-57977
WELDING TURNING BUTTS OF THICK-WALLED PIPES WITHOUT BACKING RINGS 67-01 M11-58210
THE NARROW-GAP MIG WELDING PROCESS FOR THICK STEEL PLATES 67-01 M11-58699
RAILROAD OVERPASS DEPENDS ON HIGH-STRENGTH STEEL 67-01 M11-58757
WELDING ALUMINUM ALLOY 7039 67-01 M11-58775
GALVANIZED STEELS FOR FABRICATED METAL PRODUCTS. PT. 2. FORMING, WELDING, SOLDERING AND PAINTING 67-01 M11-58794
THE SIGNIFICANCE OF INERT-GAS WELDING IN THE PRODUCTION OF TUBE JOINTS 67-02 M11-58943
MIG WELDING OF JIS A2P7 ALUMINUM ALLOY 67-02 M11-59722
EXPERIENCE OF CO2 WELDING AT THE GOMSELMASH WORKS 67-02 M11-59796
AUTOMATIC AND SEMIAUTOMATIC CO2 WELDING 67-02 M11-59846
MECHANIZED DEVICES FOR WELDING WITH FILLED WELDING WIRES 67-02 M11-59969
RECENT DEVELOPMENTS IN AUTOMATIC ARC WELDING IN NEUTRAL ATMOSPHERES 67-02 M11-60109
THE CO2 WELDING OF ASSEMBLIES AND COMPONENTS 67-02 M11-60189
A DEVICE FOR WELDING METAL BELLOWS 67-02 M11-60191
ELECTRIC ARC WELDING OF ALUMINUM 67-02 M11-60951
WELDING EQUIPMENT AND APPARATUS 67-02 M11-61042
APPLICATION OF T-1 STEEL IN PRESSURE PIPING 67-02 M11-61577
WHICH WELD FOR WHAT JOB AND WHEN 67-03 M11-65234
VACUUM-INERT WELDING GETS THE MOST OUT OF EXOTIC METALS 67-03 M11-65361
GAS SHIELDED ARC WELDING WITH SOLID FLUX-CORED TUBULAR WIRE 67-03 M11-65446
A FABRICATOR LOOKS AT SOLID AND COMPOSITE ELECTRODE GAS METAL ARC WELDING 67-03 M11-65900
WELDING DESIGN AND PROCESS MANUAL--MAGNESIUM 67-05 M11-68433
REPAIRABLE PROPERTIES OF STRUCTURALLY HARDENED STEEL 67-05 M12-69121
CROSS TRAVEL OF ARC AS A FACTOR IN IMPROVING THE STRUCTURE AND PROPERTIES OF WELDED JOINTS 67-05 M17-69406
BULK WELDING IN 1966 67-06 M11-70134
SYSTEM ENGINEERING FOR QUALITY-ASSURED WELDING OF ALUMINUM 67-06 M11-70228
GAS-TIGHT TUBEWALLS AS STRUCTURAL ELEMENTS OF PRESSURE VESSELS 67-06 M11-70460
THE WELDING OF HIGH ALLOY MATERIALS RELEVANT TO PRESSURE STEAM-REFORMING OF NAPHTHA 67-06 M11-70537
FAILURES OF HEADER SUPPORT BRACKET ASSEMBLIES 67-06 M11-70538
EXPERIENCES IN CONSTRUCTION AND OPERATION OF THE ICI TUBULAR REFORMER AT THE EFFINGHAM STREET WORKS OF THE EAST MIDLANDS GAS BOARD 67-06 M11-70541
HIGH QUALITY CO2 WELDING AT AB KARLSTADS SVETSINDUSTRI, KARLSTAD SWEDEN 67-06 M11-71576
MECHANIZED VERTICAL WELDING UTILIZING THE GAS METAL-ARC PROCESS 67-06 M11-71679
GRANULAR METAL FILLER METALS FOR ARC WELDING 67-06 M11-71680
PREDICTION OF HEAT INPUT FOR WELDING 67-06 M11-71686
WELD DEFECTS--THEIR ORIGIN AND PREVENTION. PT. 1 67-06 M11-72057
PREDICTION OF PHYSICAL PROPERTIES IN ARC WELDING 67-06 M17-71687
MULTIELECTRODE PLUG WELDING 67-07 M11-72737
GUIDE TO MIG WELDING PROCESSES 67-07 M11-73304
TITANIUM 67-07 M11-73305
SOME OBSERVATIONS ON THE WELDING OF MIXED

FABRICATIONS 67-07 M11-73612
NEW HORIZONS ON THE WELDING SCENE 67-07 M11-73882
SEMI-AUTOMATIC CO2 WELDING OF PIPELINES 67-07 M11-73888
THE PULSED INERT GAS METAL-ACR WELDING 1 IN. THICK TITANIUM 721 ALLOY 67-07 M11-74281
FABRICATION OF CHROMIUM-BASE ALLOYS 67-08 M01-74515
WELDS WERE NEVER FINER THAN THEY ARE AT GODDARD 67-08 M11-74440
PRACTICAL CORROSION PROBLEMS IN RELATION TO WELDED JOINTS. PT. 2. CORROSION PROBLEMS IN DESIGN 67-08 M11-74702
NEW MIG PROCESS WELDS THIN ALUMINUM WITH THICK WIRE 67-08 M11-74730
INFLUENCE OF SPECIMEN TYPE AND WELDING CONDITIONS ON THE HOT CRACK RESISTANCE OF WELD METAL 67-08 M11-74761
FEATURES OF SHORT CIRCUITING CO2 ARC WELDING WITH A DUPLEX POWER SOURCE 67-08 M11-75366
PROCESS APPLICATION ANALYSIS FOR MIG WELDING 67-08 M11-75750
THE OPEN AIR WELDING OF TITANIUM 67-08 M11-75752
EFFECTS OF THE CHEMICAL COMPOSITIONS OF FILLER WIRES ON THE STRENGTH OF JOINTS BETWEEN STEEL AND ALUMINIUM 67-08 M11-75908
THE TRANSVERSE CONTRACTION OF STRUCTURES MADE OF ALUMINIUM ALLOY PLATE 67-08 M11-75909
A C WELDING OF 9 PER CENT NICKEL STEEL CRYOGENIC VESSELS 67-08 M11-76066
FLUX-CORED WLEDING FILLER METAL STRENGTHENS PLATFORM TRAILERS 67-08 M11-76068
WELDING OF ALPHA-BETA TITANIUM ALLOYS IN ONE INCH PLATE 67-08 M11-76069
PRELIMINARY STUDIES OF SHORT-CIRCUITING ARC WELDING OF HY-80 STEEL 67-08 M11-76072
THE INFLUENCE OF SHIELDING GAS COMPOSITION ON WELD METAL PROPERTIES 67-08 M17-75537
MIG AND TIG, BIG AT WORTHINGTON 67-09 M11-76656
SIGMA AND 885 F. EMBRITTLEMENT OF CHROMIUM-NICKEL STAINLESS STEEL WELD METALS 67-09 M11-77950
DEVELOPMENT OF PROCEDURES FOR WELDING HY-130 --T-- STEEL 67-09 M11-78147
WELDABILITY OF HIGH CARBON STEEL USING THE GAS METAL-ARC PROCESS 67-09 M11-78149
GUIDELINES FOR SELECTING GAS METAL ARC WELDING METHODS 67-10 M11-78622
WHAT ENGINEERS SHOULD KNOW IN DESIGNING WELDED STRUCTURES 67-10 M11-78631
THE WELDING OF HEAVY MACHINERY AND APPARATUS 67-10 M11-78644
THE FACTORS THAT MAKE CARBON-DIOXIDE MIG ECONOMICAL 67-10 M11-78662
WELDING IN THE MANUFACTURE OF ROLLING STOCK ON BRITISH RAILWAYS 67-10 M11-78795
VERTICAL WELDING OF ALUMINIUM 67-10 M11-78865
THE NICKEL SILVERS 67-10 M11-78874
THE PRODUCTION OF WELDED PARTS FOR MACHINE CONSTRUCTION 67-10 M11-79489
WELDING OF AL AND ITS ALLOYS 67-10 M11-79795
VERTICAL MECHANIZED MIG WELDING OF ALUMINIUM 67-10 M11-80089
WEAVING THE ARC AS A FACTOR IN IMPROVING THE STRUCTURE AND PROPERTIES OF WELDED JOINTS 67-10 M17-78510
GAS SHIELDING TEST METHODS 67-11 M11-80410
CARBON DIOXIDE WELDING WITH DOPED ELECTRODE ON STRAIGHT POLARITY 67-11 M11-80554
WELDING BOGIE AND AXLE BOX SHOES OF LOCOMOTIVES IN 60G STEEL 67-11 M11-80560
BARE WIRE, SPRAY ARC-CO2 GAS SHIELDED PROCESS FOR STEELS 67-11 M11-81006
LOW CURRENT CO2 GAS SHIELDED WELDING PROCESS 67-11 M11-81007
SOME THOUGHTS ON ALUMINIUM PRESSURE VESSELS 67-11 M11-81008
EFFECT OF WELDING WITH CONSUMABLE ELECTRODE IN INERT GASES ON DIMENSION OF WELDS 67-12 M11-81910
FIRST CODE STAMPED PRESSURE VESSEL OF 7039 67-12 M11-81932
THE GAS-SHIELDED WELDING OF ALUMINIUM IN CONTAINER MANUFACTURE, WITH SPECIAL REFERENCE TO LOW-TEMPERATURE TECHNOLOGY 67-12 M11-81964
MULTI-ELECTRODE ARC SPOT WELDING 67-12 M11-82316
SOME CHARACTERISTICS OF PULSATION ARC WELDING WITH CONSUMABLE ELECTRODE IN ARGON 67-12 M11-82623
GAS METAL-ARC WELDING APPLIED IN MAINTENANCE 67-12 M11-82816
VERTICAL MECHANIZED MIG WELDING OF ALUMINUM 67-12 M11-83162
TRANSFORMATIONS AND REACTIONS IN THE HEAT AFFECTED ZONE DURING WELDING AND FLAME CUTTING 67-12 M11-83205
HARD SURFACING TECHNIQUES IN MECHANICAL CONSTRUCTION 67-12 M11-83505
WELDING OF A-Z5G ALLOY --AL-ZN-MG-- 67-12 M11-83506
EFFECT OF SHIELDING GAS COMPOSITION ON THE PROPERTIES OF WELDS 67-12 M11-83508

GAS METAL ARC WELDING, AUTOMATION
MECHANIZED VERTICAL WELDING OF ALUMINIUM PLATES 67-09 M11-77917

GAS METAL ARC WELDING, QUALITY CONTROL
HIGH-QUALITY WELDS USING INFRA-RED TEMPERATURE CONTROL 67-09 M19-78107

GAS PERMEABILITY
SEE PERMEABILITY

GAS PHASE PLATING
SEE VAPOR PLATING

GAS PHASES /METALLURGICAL/
NUCLEATION SITES OF THE ALPHA PHASE GAS IN THE PHASE DURING CEMENTATION OF IRON BY CHROMIUM 67-02 M14-60554

GAS PIPELINES
MANUFACTURE OF WELDED STEEL PIPE 67-06 M07-72139

GAS PIPELINES, COATING
PLASTICS PITCH FOR PIPE PROTECTION 67-04 M12-66502

GAS PIPELINES, CORROSION
SACRIFICIAL ZINC RIBBON ANODES--CATHODIC PROTECTION WITH RIBBON TYPE ZINC ANODES 67-06 M18-72334

GAS PIPELINES, ROLLING
STUDY OF SHEET METAL MADE BY LONGITUDINAL AND CROSS ROLLING FOR THE PRODUCTION OF LARGE-DIAMETER ELECTROWELDED PIPE 67-02 M07-61946
STUDY OF METAL IN LONGITUDINAL AND TRANSVERSE ROLLING IN ELECTRICALLY-WELDED LARGE DIAMETER PIPES 67-04 M07-67779

GAS SCRUBBING
COLLECTING AND SCRUBBING GASES FROM ELECTRIC STEEL MELTING FURNACES 67-02 M04-62146
REMOVING AND PURIFYING GASES FROM ELECTRIC STEELMAKING FURNACES 67-04 M04-68188
OG GAS RECOVERY EQUIPMENT IMPROVES YIELD OF BOF PLANT 67-07 M20-72620

GAS TIGHTNESS
AN EXPERIMENTAL PIPELINE OF DUCTILE CAST IRON FOR AN OPERATING PRESSURE OF 64 ATM 67-06 M06-71440
NDT ASSURES VACUUM TIGHTNESS IN CRYOGENIC TANKS 67-06 M19-72248
INJECTION OF BRONZE OTSSN3-7-5-1 WITH NITROGEN AND POWDERED FLUXES IN NITROGEN 67-07 M06-73043
INVESTIGATION OF THE HYDRAULIC SOUNDNESS OF GREY CAST IRONS 67-07 M15-73045
SEALING PROPERTIES OF AL9 A1 ALLOY CASTINGS 67-08 M06-75194

GAS TUNGSTEN ARC CUTTING
DEVICE FOR OXYGEN FLAME PLASMA-ARC CUTTING OF STEELS WITH A TUNGSTEN ELECTRODE 67-06 M11-70145

GAS TUNGSTEN ARC SEAM WELDING
SEE ARC SEAM WELDING
GAS TUNGSTEN ARC WELDING

GAS TUNGSTEN ARC SPOT WELDING
SEE ARC SPOT WELDING
GAS TUNGSTEN ARC WELDING

GAS TUNGSTEN ARC WELDING
ARGON ARC WELDING TI-AL-MN AND TI-AL-CR-FE ALPHA PLUS BETA ALLOYS 67-01 M11-58160
FUSION WELDING OF ALUMINUM WITH COPPER 67-01 M11-58277
THE WELDING OF REFRACTORY-METAL COMPONENTS FOR LIQUID METAL SERVICE 67-01 M11-58774
WELDING ALUMINUM ALLOY 7039 67-01 M11-58775
DEVELOPMENT OF FILLER METALS FOR WELDING AL-ZN-MG ALLOY 7039 67-01 M11-58776
WELDING OF QUENCHED AND TEMPERED 9NI-4CO STEELS 67-01 M11-58777
THE SIGNIFICANCE OF INERT-GAS WELDING IN THE PRODUCTION OF TUBE JOINTS 67-02 M11-58943

REPORTS ON THE BEHAVIOR OF TUNGSTEN ELECTRODES IN TIG WELDING 67-02 M11-59758
A TUNGSTEN ELECTRODE FOR THE ARGON TUNGSTEN ARC WELDING OF METALS 67-02 M11-59800
EXPERIENCE GAINED IN THE AVOIDANCE OF DEFECTS IN THE TIG AND MIG WELDING OF AL 67-02 M11-59814
RECENT DEVELOPMENTS IN AUTOMATIC ARC WELDING IN NEUTRAL ATMOSPHERES 67-02 M11-60109
NEW GUNS FOR ARGON ARC WELDING OF TITANIUM PARTS 67-02 M11-60135
STAINLESS STEEL WELDS 67-02 M11-60590
WHERE DO WE STAND IN WELDING HIGH STRENGTH STEELS 67-02 M11-61098
INFLUENCE OF WELDING HEAT ON MECHANICAL PROPERTIES OF ATSM ALLOY 67-02 M11-61264
STRENGTH AND PLASTICITY OF JOINTS IN AUTOMATIC ARC WELDING OF VT14 AND VT6S TITANIUM ALLOYS 67-02 M11-61267
WELDING THIN-WALLED STAINLESS STEEL TUBES BY BUTT SPIRAL SEAMS 67-02 M11-61269
ARGON-ARC WELDING ALUMINUM ELEMENTS OF HANGAR ROOFS 67-02 M11-61273
EFFECTS OF HIGH-FREQUENCY CURRENT IN WELDING ALUMINUM ALLOY 6061 67-02 M11-61581
THE EFFECTS OF APPLIED MAGNETIC FIELDS ON WELDING ARCS 67-02 M11-61584
THINK TIG 67-02 M11-61645
WELDING AMG61 ALLOY IN HELIUM 67-03 M11-65051
BEHAVIORS OF THE PRECIPITATES OF 17-4PH STAINLESS STEEL BY THE ARC WELDING HEAT 67-03 M14-65842
TO MUFFLE A NUCLEAR ROCKET ENGINE.. WELDED STAINLESS 67-04 M11-66250
WELDING OF APPARATUS FROM TI-CLAD BIMETALS 67-04 M11-66347
AUTOMATIC MIG WELDING OF ALUMINIUM ALLOYS 67-04 M11-66469
VACUUM-TIGHT CORNER WELDS IN AMG6 ALLOY 67-04 M11-66472
PROPERTIES OF WELDED JOINTS IN HEAT RESISTANT STAINLESS STEELS 67-04 M11-66802
SOME FEATURES OF WELDING TITANIUM WITH NONCONSUMABLE ELECTRODE USING FLUX 67-04 M11-66803
CROSSWISE CONTRACTION OF SHEET STRUCTURES MADE OF ALUMINUM ALLOYS 67-04 M11-66805
BORON-ALLOYED AUSTENITIC STEELS AND ALLOYS FOR WELDED STRUCTURES 67-04 M11-66811
EXPERIENCES IN AVOIDING DEFECTS IN THE TIG AND MIG WELDING OF AL 67-04 M11-66883
INFLUENCE OF SPECIMEN TYPE AND WELDING CONDITIONS ON RESISTANCE OF METAL TO HOT CRACKING 67-04 M11-67002
PROGRAMMING FOR PULSED ARC WELDING OF TUBES 67-04 M11-67006
TECHNIQUES FOR WELDING 7039 ALUMINUM WITH VARIOUS INERT GAS PROCESSES 67-04 M11-67035
THE MANUAL AND AUTOMATIC TIG WELDING OF THIN CU SHEETS 67-04 M11-67078
A COMBINED METHOD OF MAKING BUTT WELDS IN STEEL PIPING 67-04 M11-67173
EFFECTS OF NITROGEN IN THE MECHANICAL PROPERTIES OF WELDED JOINTS IN KH17N4G14AB STEEL 67-04 M11-67175
HEAT PROPAGATION DURING THE FUSION WELDING OF ALUMINIUM TO COPPER 67-04 M11-67350
FUSION WELDING ALUMINIUM TO COPPER 67-04 M11-67358
WELDING OT4-2 TITANIUM ALLOY 67-04 M11-67363
TORCHES FOR THE TIG WELDING OF TITANIUM PRODUCTS 67-04 M11-67675
WELDING CIRCULAR SEAMS IN ALUMINUM ALLOY SHELLS 67-04 M11-67806
PULSED ARC WELDING OF LEAD 67-04 M11-67807
WELDING FLANGES TO A SPHERE IN AMG6 ALLOY 67-04 M11-67816
INFLUENCE OF AIR CURRENTS ON GAS SHIELDING IN DG AND MIG WELDING 67-04 M11-68013
THE INFLUENCE OF WELDING HEAT ON THE MECHANICAL PROPERTIES OF ALLOY ATSM 67-05 M11-68264
THE STRENGTH AND DUCTILITY OF AUTOMATIC ARGON ARC WELDED JOINTS IN TITANIUM ALLOYS VT14 AND VT6S 67-05 M11-68267
SPIRAL BUTT WELDS IN THIN WALLED STAINLESS STEEL TUBES 67-05 M11-68269
ARGON ARC WELDING OF THE ALUMINIUM COMPONENTS OF A HANGAR ROOF 67-05 M11-68273
WELDING DESIGN AND PROCESS MANUAL--MAGNESIUM 67-05 M11-68433
EFFECT OF THE PARAMETERS AND PRECISION OF JOINT ASSEMBLY ON FORMATION OF GIRTH WELDS 67-05 M11-69403
CRYSTALLIZATION OF MOLTEN POOL IN WELDING LIGHT-GAGE METALS 67-05 M11-69405
PREVENTING OXIDE INCLUSIONS IN WELDED JOINTS OF AMG6 ALLOY 67-05 M11-69415
REPAIRABLE PROPERTIES OF STRUCTURALLY HARDENED STEEL 67-05 M12-69121
THE POSSIBILITY OF BRITTLE FRACTURE OF ALUMINUM ALLOY WELDED JOINTS 67-05 M17-69408
STEELS FOR HYDROSPACE PRESSURE HULLS 67-06 M11-70122
ALUMINUM ALLOYS FOR PRESSURE HULLS 67-06 M11-70123
SOME ASPECTS OF THE WELDING OF CIRCUMFERENTIAL SEAMS IN ALUMINIUM ALLOY VESSELS 67-06 M11-70306
PULSED ARC WELDING OF LEAD 67-06 M11-70307
WELDING FLANGES TO A SPHERE OF AMG6 ALLOY 67-06 M11-70316
IMPROVING THE EFFICIENCY OF A TITANIUM WELDED JOINT 67-06 M11-70389
EFFECT OF EDGE DISPLACEMENT ON THE MECHANICAL PROPERTIES OF AN AMG6 ALLOY WELDED JOINT 67-06 M11-70395
IMPROVING THE QUALITY OF HERMETIC SEAMS IN WELDING ALUMINUM ALLOYS 67-06 M11-70397
THE WELDING OF HIGH ALLOY MATERIALS RELEVANT TO PRESSURE STEAM-REFORMING OF NAPHTHA 67-06 M11-70537
FABRICATION OF PIGTAIL ASSEMBLIES 67-06 M11-70539
EXPERIENCES IN CONSTRUCTION AND OPERATION OF THE ICI TUBULAR REFORMER AT THE EFFINGHAM STREET WORKS OF THE EAST MIDLANDS GAS BOARD 67-06 M11-70541
INVESTIGATION OF HEAT EFFICIENCY OF COMPRESSED ARC WELDING OF THIN SHEET MATERIALS 67-06 M11-71643
CALCULATION OF THE WEIGHT OF WELDING POOL DURING FUSION WELDING 67-06 M11-71841
WELD DEFECTS--THEIR ORIGIN AND PREVENTION. PT. 1 67-06 M11-72057
NOTES ON THE PROPERTIES AND WELDING OF CENTRIFUGALLY CAST 25 PER CENT CHROMIUM 20 PER CENT NICKEL ALLOY STEEL TUBE 67-06 M17-70533
TITANIUM 67-07 M11-73305
WELDING METHODS TO PRODUCE TUBES AND SHAPES. PT. 1 67-07 M11-73710
THE WELDING OF TITANIUM FOR THE CHEMICAL INDUSTRY 67-07 M11-73797
WELDING OF THICK SECTIONS OF HASTELLOY X FOR THE PHOEBUS-2 NOZZLE 67-07 M11-74278
SOME REGULARITIES IN WELD PENETRATION DURING BUTT WELDING OF TUBES IN STATIONARY POSITION 67-08 M11-74373
WELDS WERE NEVER FINER THAN THEY ARE AT GODDARD 67-08 M11-74440
INFLUENCE OF SPECIMEN TYPE AND WELDING CONDITIONS ON THE HOT CRACK RESISTANCE OF WELD METAL 67-08 M11-74761
STAINLESS FOIL TO 0.001-IN. THICK TIG WELDED 67-08 M11-75528
THE ARCATOM WELDING METHOD AND ITS APPLICATIONS 67-08 M11-75674
THE PROPERTIES OF WELDED JOINTS IN HEAT-RESISTANT STAINLESS STEELS 67-08 M11-75906
WELDING TITANIUM WITH A NONCONSUMABLE ELECTRODE USING FLUXES 67-08 M11-75907
THE TRANSVERSE CONTRACTION OF STRUCTURES MADE OF ALUMINIUM ALLOY PLATE 67-08 M11-75909
AUSTENITIC STEELS AND ALLOYS, ALLOYED WITH BORON, FOR WELDED STRUCTURES 67-08 M11-75915
MIG AND TIG, BIG AT WORTHINGTON 67-09 M11-76656
AUTOMATIC TIG WELDING OF ALUMINIUM ALLOYS IN THE VERTICAL POSITION 67-09 M11-77240
AUTOMATIC ARGON ARC WELDING OF M40 ALLOY 67-09 M11-77241
INFLUENCE ON LOCAL JOINT DISTORTION OF THE RIGIDITY OF CLAMPING SHEETS FOR WELDING 67-09 M11-77243
DURABILITY OF A TUNGSTEN ELECTRODE WHEN WELDING WITH REVERSE POLARITY PULSED ARC 67-09 M11-77611
ARGON ARC WELDING OF ZINC 67-09 M11-77615
ARGON ARC WELDING OF STEAM SUPERHEATING PIPES OF

12KH1MF STEEL 67-09 M11-77617
WHATS SO TOUGH ABOUT CRYOGENIC COLD 67-09 M11-77915
WELDABILITY OF CB-BEARING HIGH STRENGTH LOW ALLOY STEEL 67-09 M11-77952
MANUFACTURING TITANIUM HEAT EXCHANGERS 67-09 M11-77959
AN IMPROVEMENT TO WELDED JOINTS IN TITANIUM 67-09 M11-78089
EFFECTS OF ONE EDGE BEING PROUD OF THE OTHER ON THE MECHANICAL PROPERTIES OF WELDED JOINTS IN AMG6 ALLOY 67-09 M11-78095
IMPROVING THE QUALITY OF THE SEALING BEAD WHEN WELDING ALUMINIUM ALLOYS 67-09 M11-78097
A TECHNIQUE FOR WELDING BRASS TO HIGH STRENGTH LOW ALLOY STEEL 67-09 M11-78143
MECHANIZATION AND AUTOMATION IN WELDING OF SECTIONAL PRESSURE VESSELS 67-10 M11-78415
EFFECTS OF WELDING CONDITIONS AND ACCURACY ON THE FORMATION OF UNRESTRAINED WELDS 67-10 M11-78507
PRIMARY CRYSTALLIZATION OF THE MOLTEN METAL POOL WHEN WELDING THIN METAL 67-10 M11-78509
THE ELIMINATION OF OXIDE INCLUSIONS FROM WELDED JOINTS IN AMG6 ALLOY 67-10 M11-78519
WELDING IN MODERN GAS TURBINE ENGINE MANUFACTURE 67-10 M11-78796
PIGME, A NEW AUTOMATIC INERT ARC WELDING PROCESS 67-10 M11-79194
THE THERMAL EFFICIENCY OF CONSTRICTED ARC WELDING ON THIN SHEET MATERIAL 67-10 M11-79610
WELDING OF AL AND ITS ALLOYS 67-10 M11-79795
DISTORTION-FREE WELDS IN TITANIUM 67-10 M11-80033
BRITTLE FRACTURE IN WELDED JOINTS IN ALUMINIUM ALLOYS 67-10 M17-78512
GAS SHIELDING TEST METHODS 67-11 M11-80410
ARGON ARC WELDING BR.B2 BERYLLIUM BRONZE 67-11 M11-80547
POROSITY IN WELD METAL DURING FUSION WELDING OF NIOBIUM ALLOYS 67-11 M11-80549
TECHNOLOGY OF WELDING PIPES TO OKH18N12B STEEL PIPE GRATES 67-11 M11-80556
EFFECT OF GAS IMPURITIES ON THE MECHANICAL PROPERTIES OF VT6S ALLOY WELDED JOINTS 67-11 M11-80557
EFFECT OF WELDING SLAG ON THE CORROSION RESISTANCE OF WELDED JOINTS 67-11 M11-80561
CALCULATING THE DIMENSIONS AND WEIGHT OF THE WELD POOL DURING WELDING WITH FULL THICKNESS PENETRATION 67-11 M11-80873
THE USE OF HELIUM AS A PROTECTIVE ATMOSPHERE IN THE TIG WELDING OF AL 67-11 M11-80931
SOME THOUGHTS ON ALUMINIUM PRESSURE VESSELS 67-11 M11-81008
FUEL TANKS FOR MOON SHOT--TIG-WELDED TITANIUM 67-12 M11-81931
THE GAS-SHIELDED WELDING OF ALUMINIUM IN CONTAINER MANUFACTURE, WITH SPECIAL REFERENCE TO LOW-TEMPERATURE TECHNOLOGY 67-12 M11-81964
INERT-GAS WELDING OF NONFERROUS METALS 67-12 M11-82077
SOME EXPERIMENTS ON JOINING ALUMINUM TO MILD STEEL BY TIG WELDING 67-12 M11-82134
INTERNAL REINFORCEMENT FORMATION IN UNROTATED PIPE WELDS 67-12 M11-82246
ALL YOU NEED TO KNOW ABOUT TUNGSTEN ELECTRODES 67-12 M11-82658
NEW TECHNIQUES FOR MELT-THRU TEE WELDING 67-12 M11-82659
FATIGUE STRENGTH OF A WELDABLE HIGH STRENGTH MARTENSITIC STAINLESS STEEL 67-12 M11-82820
STUDY OF THE PARAMETERS OF AN ELECTRICAL ARC IN ARGON 67-12 M11-83185
DYNAMIC CHARACTERISTICS OF THE PULSE ARC DURING ARGON ARC WELDING 67-12 M11-83186
A MACHINE FOR PULSATION ARGON ARC WELDING OF STATIONARY THICK-WALLED TUBES 67-12 M11-83190
WELDING OF A-Z5G ALLOY --AL-ZN-MG-- 67-12 M11-83506
STATISTICAL STUDY ON THE INFLUENCE OF ADDITION ELEMENTS ON WELD CRACKING IN AG 3 ALLOYS 67-12 M17-83341

GAS TUNGSTEN ARC WELDING, AUTOMATION
WELDING SKATE WITH COMPUTERIZED TORCH ANGLE AND WELDING SPEED CONTROL 67-01 M11-58773
RESEARCH TEAM LEANS ON COMPUTER TO CONTROL WELD VARIABLES 67-03 M11-65618
AUTOMATIC CONTROL OF PULSED-ARC WELDING WITH CONSUMABLE ELECTRODE 67-05 M11-69401
PROGRAMMING THE CONDITIONS FOR PULSATING ARC WELDS ON PIPES 67-08 M11-74765
AUTOMATIC CONTROL OF PULSED ARC WELDING WITH A CONSUMABLE ELECTRODE 67-10 M11-78505

GAS TUNGSTEN ARC WELDING, HEAT TRANSFER
SOME ENERGY PARAMETERS OF THE ARC IN ARGON WITH CONSUMABLE ELECTRODE 67-01 M11-58270

GAS TURBINES
AEROSPACE APPLICATIONS OF REFRACTORY METALS 67-06 M20-72074
FRICTIONAL BEHAVIOR OF LABYRINTH SEAL AND SHROUD MATERIALS IN STEAM AND GAS TURBINES 67-07 M17-74056
NIMONIC, NIMOCAST AND OTHER HIGH-NICKEL ALLOYS FOR VERY HIGH-TEMPERATURE USE 67-10 M20-78468
PROBLEMS AND DEFICIENCIES ASSOCIATED WITH THE USE OF STEEL IN GAS TURBINE ENGINEERING 67-11 M20-80284
KINETICS OF STRUCTURAL TRANSFORMATIONS AND FAILURE OF HEAT RESISTANT ALLOYS AT CREEP 67-12 M17-81833
INVESTIGATION OF 1KH12VNMF STEEL FOR FORGED TURBINE ROTORS 67-12 M17-81839

GAS TURBINES, CORROSION
PROTECTIVE DIFFUSION COATING OF NICKEL ALLOYS 67-01 M18-58711
OBSERVATIONS ON CORRODED PARTS OF A STATIONARY 10 MW GAS TURBINE 67-02 M18-62014
HOT CORROSION OF GAS TURBINE ALLOYS 67-06 M18-70491

GAS TURBINES, MATERIALS
DETERMINING THE THERMAL PLASTICITY OF STEEL DURING CYCLIC TENSILE TESTING FOLLOWED BY STRESS RELAXATION 67-03 M17-65072
MODERN MATERIALS FOR GAS TURBINE BLADES AND DISKS 67-05 M17-68369
DETERMINATION OF THE THERMAL PLASTICITY OF STEEL BY A TEST WITH CYCLIC TENSION FOLLOWED BY STRESS RELAXATION 67-07 M17-72972

GAS TURBINES, SEALING
INVESTIGATION OF ANTIFRICTION PROPERTIES OF SEALING COMPOSITE MATERIALS. PT. 2 67-02 M09-60182
STAND TESTS OF CERMET PACKING MATERIAL U MB-4S 67-06 M17-70968

GAS TURBINES, SURFACE PROPERTIES
PROSPECTS FOR MANUFACTURING OF GAS TURBINE SEALS WITH CONSIDERATIONS OF PHYSICAL AND CHEMICAL FACTORS 67-05 M09-69020

GAS TURBINES, WELDING
WELDING IN MODERN GAS TURBINE ENGINE MANUFACTURE 67-10 M11-78796

GAS VALVES
SEE ENGINE VALVES

GAS WELDING
SEE ALSO OXYACETYLENE WELDING
PRESSURE GAS WELDING
PROPANE-BUTANE-OXYGEN FLAME IN WELDING CARBON STEELS 67-01 M11-57372
STUDY OF THE EFFECTIVENESS OF A PROPANE-BUTANE-ACETYLENE MIXTURE FOR TORCHING METALS 67-01 M11-58050
GAS WELDING OF LOW-CARBON STEEL USING NATURAL GAS 67-06 M11-71647
WELD DEFECTS--THEIR ORIGIN AND PREVENTION. PT. 1 67-06 M11-72057
USE OF NATURAL GAS FOR WELDING OF CARBON STEELS 67-08 M11-74379
AUTOMATIC BUILDUP OF BRASS 67-10 M11-78411
WELDING MILD STEEL WITH TOWNS GAS 67-10 M11-79614
PRACTICAL ASPECTS OF GAS WELDING ALUMINUM 67-10 M11-79789
USING THE VORTEX EFFECT IN GAS-ELECTRIC WELDING 67-11 M11-80558
ON THE PRACTICE OF THE GAS WELDING OF ALUMINUM 67-12 M11-81748
USE OF NATURAL GAS FOR WELDING CARBON STEELS 67-12 M11-82252

GASEOUS DIFFUSION PROCESS
SEE ISOTOPE SEPARATION

GASES, ALLOYING EFFECTS
GASES IN COPPER ALLOYS 67-08 M14-74552

GASES, SOLUBILITY
GASES IN METALS 67-08 M15-74559
METALS REFERENCE BOOK. V. 2 67-10 M01-79103

GASKETS
METALLIC GASKETS 67-06 M20-72014

GASKETS
O-RING TYPES 67-06 M20-72015
GASKETS, PHYSICAL PROPERTIES
TUNGSTEN-CARBIDE SEAL HANDLES RANGE FROM MINUS 423 TO PLUS 800 F 67-07 M20-73616
GATES
GATING IN DIE CASTING 67-04 M06-66637
GATING /CASTING/
SEE CASTING
GATING AND RISERING
THE DIMENSIONING OF GATING SYSTEMS IN THE SAND AND CHILL CASTING OF HEAVY METALS 67-03 M06-65191
CALCULATING THE GATING-FEEDING SYSTEMS FOR THIN-WALLED ELONGATED CASTINGS 67-04 M06-66416
EFFECT OF OVERFLOW WELLS, GATING AND INJECTION PARAMETERS ON THE POROSITY OF A DIE CASTING 67-04 M06-67702
EXPERIENCE IN CASTING NEEDLE-TYPE TUBES AND HEAT EXCHANGE BLOCKS 67-04 M06-68096
THERMAL EFFICIENCY OF RISERS AND THE CASTING YIELD 67-05 M06-68726
TECHNOLOGICAL VALUES OF DETERMINING RISER DIMENSIONS FOR IRON-CARBON-SILICON ALLOYS AND ESPECIALLY FOR CAST IRON. PT. 1-2 67-05 M06-68737
TECHNOLOGICAL VALUES FOR DETERMINING RISER DIMENSIONS FOR IRON-CARBON-SILICON ALLOYS AND ESPECIALLY FOR CAST IRON. PT. 3. 67-06 M04-72282
GATING AND FEEDING TECHNIQUES IN PRESSURE DIECASTING 67-06 M06-70048
OPERATING EXPERIENCE IN THE CASTING OF COMPLEX V ENGINES 67-07 M06-72489
INSULATING RISER SLEEVES OFFER COST SAVINGS 67-07 M06-72823
MEASUREMENTS OF SOLIDIFICATION TIMES ON PLATES AND SPHERES OF DIFFERENT METALS AND THEIR SIGNIFICANCE FOR THE DESIGN OF FEEDER HEADS 67-07 M06-73491
THEORY AND CALCULATION OF THE PROCESS OF FILLING THE MOLDS OF VERTICAL THIN-WALLED CASTINGS USING A BOTTOM GATE 67-08 M06-75193
A GATING SYSTEM FOR CHILL CASTING A TRACTOR PISTON IN A110V ALLOY 67-08 M06-75198
NOMOGRAPH FOR THE DETERMINATION OF GATE AREAS OF GRAY IRON CASTINGS 67-08 M06-75699
THE GATING AND RISERING OF COUNTER-GRAVITY POURED MAGNESIUM-LITHIUM CASTINGS 67-10 M06-79295
EFFECT OF RISERING ON THE MICROPOROSITY OF IRON CASTINGS 67-10 M06-79560
GATING TECHNOLOGY IN THE DIE CASTING OF BRASS 67-10 M06-79976
DETERMINING THE NUMBER OF HEADS FOR CYLINDRICAL CASTINGS 67-12 M06-82100
PRESSURE DIE CASTING AND THE MANIFOLD PROBLEM 67-12 M06-82901
INLET AND GATING CALCULATIONS FOR PRESSURE-CASTING DIES 67-12 M06-82920
THE DESIGN OF FEEDER CONFIGURATION IN THE CASTING OF LOW-ALLOY CR-MO STEEL PLATES 67-12 M06-82938
SPRAY GATING SYSTEMS 67-12 M06-83044
CORRELATION BETWEEN CASTING YIELD AND THE GATING FACTORES FOR GRAY IRON CASTINGS 67-12 M06-83482
GAUGES
SEE MEASURING INSTRUMENTS
GEAR BOXES, MACHINING
HONING WITH DIAMOND TOOLS 67-03 M08-65714
GEAR CUTTERS
INVESTIGATION OF R12 STEEL 67-04 M17-67962
GEAR CUTTING
APPLICATION OF HOBBING TO THE MANUFACTURE OF METAL CUTTING DIES 67-01 M08-58674
PRODUCTION EQUIPMENT FOR LARGE GEARS 67-07 M08-74003
GEAR CUTTING MACHINES
SEE ALSO GEAR HOBBING MACHINES
GEAR LINK LINE HANDLES HEAVY UNSTABLE COMPONENTS 67-08 M08-74460
GEAR GRINDING
FLEXIBLE LINE MAKES QUALITY PUMP GEARS 67-06 M08-71204
GRINDING GEARS WITH CIRCULAR-ARC TOOTH-CURVE 67-09 M08-77578
GEAR HOBBING
CURRENT DEVELOPMENTS IN GEAR ENGINEERING 67-05 M08-68501
FLEXIBLE LINE MAKES QUALITY PUMP GEARS 67-06 M08-71204
GEAR HOBBING MACHINES
PRODUCTION EQUIPMENT FOR LARGE GEARS 67-07 M08-74003
GEAR MACHINING
SEE ALSO GEAR CUTTING
GEAR HOBBING
MACHINING OPERATIONS ON HAMWORTHY HYDRECO HIGH PRESSURE HYDRAULIC PUMP GEARS 67-11 M08-80565
GEAR PUMPS, MACHINING
FLEXIBLE LINE MAKES QUALITY PUMP GEARS 67-06 M08-71204
GEAR TEETH, COATING
HARDFACING REPAIRS ON IRON AND STEELWORKS EQUIPMENT 67-04 M12-66476
GEAR TEETH, HEAT TREATMENT
INDUCTION HARDENING OF LARGE GEARS 67-08 M10-75558
AUTOMATIC INDUCTION HARDENING OF LARGE GEARS 67-09 M10-76903
GEAR TEETH, MECHANICAL PROPERTIES
BENDING FATIGUE STRENGTH OF GEARS 67-03 M17-65199
THE FATIGUE FACTOR IN ENGINEERING DESIGN 67-08 M17-75613
GEAR TEETH, SURFACE PROPERTIES
GEARS AND THEIR LUBRICATION 67-07 M17-73691
GEARING
SEE GEARS
GEARS
SEE ALSO BEVEL GEARS
DIFFERENTIAL GEARS
HELICAL GEARS
HYPOID GEARS
INTERNAL GEARS
RING GEARS
SPROCKETS
SPUR GEARS
NEW TECHNIQUES IN METAL FORMING 67-03 M07-65166
SLIM TWO-PIECE GEARS FABRICATED BY BRAZING 67-05 M11-68306
INCREASE OF THE STRENGTH OF TRACTOR GEARS BY CASE HARDENING AND NITROCEMENTATION 67-08 M10-74972
STUDY OF THE KINETICS OF THE ISOTHERMAL TRANSFORMATION OF AUSTENITE IN 20KHGNR STEEL 67-08 M14-74341
GEAR MATERIAL FOR OPERATION AT 1000 F 67-08 M17-74491
INCREASE OF THE WORKING LIFE OF TRACTOR PARTS 67-08 M17-74969
DEVELOPMENT TENDENCIES IN THE SURFACE HARDENING OF GEARS 67-10 M10-79791
GEARING. PT. 2. GEAR MATERIALS 67-11 M20-81035
GEARS, CASTING
STRONGER GEARS WITH SILICON BRONZES 67-06 M06-70241
GEARS, COATING
RECLAMATION OF METALLURGICAL EQUIPMENT BY BUILDUP 67-02 M11-59527
RECLAMATION OF LARGE SIZE METALLURGICAL EQUIPMENT PARTS 67-02 M11-61250
THE RECONDITIONING OF LARGE EQUIPMENT PARTS AT METAL WORKS 67-04 M11-66523
GEARS, CORROSION
INTERNAL OXIDATION DURING CASE HARDENING OF STEELS IN ENDOTHERMIC ATMOSPHERES 67-07 M18-74176
GEARS, EXTRUSION
TRANSVERSE EXTRUSION. PT. 2. 67-02 M08-60000
COLD EXTRUSION HEADS FOR BIGGER PARTS, BIGGER MARKETS 67-12 M08-82599
GEARS, FINISHING
FINISHING BETTER GEARS AT LOWER COST 67-06 M08-70238
GEARS, FORGING
INFLUENCE OF FORGING TECHNOLOGY ON QUALITY OF REDUCTOR GEARS 67-09 M07-76408
AN EXPERIMENT IN PRODUCING CYLINDRICAL GEAR FORGINGS WITH FINISHED TEETH ON HIGH-SPEED EQUIPMENT 67-12 M08-82062
GEARS, HARDENING
INVESTIGATION OF CASE HARDENING OF GEARS 67-02 M17-60843
GEARS, HEAT TREATMENT
GEAR CAPACITIES MULTIPLY WITH BATH NITRIDING 67-03 M10-65013
EFFECTS OF STEEL QUALITY ON THE RESULTS OF HEAT

TREATMENT WITH THE CORRECT TREATMENT CONDITIONS OBSERVED 67-04 M10-68051
THE NITRIDING OF MACHINE PARTS 67-06 M10-72056
NEW FORMULAE FOR SPIN HARDENING GEARS 67-07 M10-72805
BATH CONTROL KEY IN NITRIDING GEARS 67-07 M10-72993
CHEMICOTHERMAL TREATMENT OF GEARS 67-08 M17-76101
COMPRESSED AIR AS A COOLANT FOR SURFACE QUENCHING 67-09 M10-77404
TOUGHER GEARS, LESS DISTORTION, RESULT OF NEW HEAT TREATMENT 67-10 M10-78578
SUBMERGED INTENSIFIER GEAR HARDENING FOR LOW DISTORTION 67-10 M10-79525
LOW-DISTORTION GEAR HARDENING 67-10 M10-80031
PRECISION COMPONENTS DEMAND SPECIALIZED HEAT TREATMENT 67-11 M10-81133

GEARS, MACHINING
ECM TAILORED FOR PRECISION 67-03 M08-65039
CONDITIONS AND METHODS FOR GRINDING CARBURIZED AND QUENCHED GEARS 67-04 M08-66348
FINE BLANKING REPLACES SIX STAMPING OPERATIONS 67-04 M08-68117
DIAMOND TOOLS IMPROVE HONING 67-06 M08-70844
A NEW ELECTROLYTE FOR ELECTROCHEMICAL MACHINING 67-07 M08-72795
PRODUCTION EQUIPMENT FOR LARGE GEARS 67-07 M08-74003
A DISCUSSION OF ELECTROCHEMICAL DEBURRING 67-12 M08-82954

GEARS, MATERIALS
STEEL WITH LOW HARDENABILITY FOR TRACTOR PARTS 67-04 M20-67957
NEW CASE-HARDENABLE 20KHGSVT STEEL 67-04 M20-67959
USE OF LOW-NICKEL AND NICKEL-FREE STEELS FOR HEAVILY STRESSED TRACTOR GEARS 67-04 M20-67960
ANTIFRICTION AND MECHANICAL PROPERTIES OF TAVEN, A NEW ANTIFRICTION CAST IRON 67-07 M17-73033

GEARS, MECHANICAL PROPERTIES
HIGH-DUTY IRON ENGINE GEARS 67-02 M17-61189
BENDING FATIGUE STRENGTH OF GEARS 67-03 M17-65199
THE BASIC VARIETIES OF FAILURE IN MACHINE GEARS 67-04 M17-66631
RESEARCH INTO THE PROPERTIES OF LOW-NICKEL AND NICKEL-FREE CASE-HARDENABLE STEELS FOR HIGHLY STRESSED GEARWHEELS 67-06 M17-70346
OPERATING GEARS IN A SIMULATED SPACE VACUUM--THE VACUUM FACILITY AND SEVERAL TECHNIQUES 67-07 M17-72758
FATIGUE FAILURE OF COMPONENTS OF LIFTING MACHINERY 67-08 M17-74502
RESISTANCE OF CASE-HARDENED STEEL TO CONTACT FATIGUE 67-08 M17-76001
BENDING FATIGUE STRENGTH OF GEARS UNDER VARIOUS LOADING CONDITIONS 67-09 M17-77577

GEARS, METAL WORKING
STAMPING OF BILLETS HEATED IN MOLTEN GLASS 67-02 M07-60678
SOME CHARACTERISTICS OF BILATERAL HOT EXTRUSION 67-02 M08-60676
HONING MAKES A BETTER GEAR 67-06 M08-70689

GEARS, MICROSTRUCTURE
INFLUENCE OF PRELIMINARY HEAT TREATMENT ON DISPERSIVENESS OF IMPURITIES AND STABILITY OF AUSTENITIC GRAINS 67-04 M14-66364

GEARS, NONDESTRUCTIVE TESTING
METHOD OF ELECTRIC INDUCTION INSPECTION OF THE DEPTH OF SURFACE HARDENING IN GEAR TEETH 67-02 M19-59554

GEARS, POWDER METALLURGY
SINTERED METAL PRODUCTS 67-02 M09-59627
POWDER METALLURGY PARTS IN AUTOMOBILE MANUFACTURING 67-08 M09-74318

GEARS, SURFACE FINISHING
TIKI GEAR DE-BURRING MACHINE 67-06 M12-71325

GEARS, WARPAGE
DEFORMATION OF CARBURIZED CYLINDRICAL GEARS DURING HEAT TREATMENT 67-02 M10-60847
DEFORMATION OF CASE HARDENED CYLINDRICAL GEARS DURING HEAT TREATMENT 67-08 M10-76105

GEARS, WEAR
MODELING THE WEAR TESTS OF GEARS 67-10 M17-79208

GEARS, WELDING
MECHANIZED BUILDUP OF VANES OF RADIAL-AXIAL HYDROTURBINE GEARS 67-04 M12-66573
THE MECHANISED BUILDING UP OF RADIAL-AXIAL FLOW HYDRAULIC TURBINE RUNNER BLADES 67-07 M12-73430
THE PRODUCTION OF WELDED PARTS FOR MACHINE CONSTRUCTION 67-10 M11-79489

GEIGER MUELLER COUNTERS
STOCKLINE MEASUREMENT IN BLAST FURNACES WITH RADIOACTIVE ISOTOPES 67-07 M04-72712

GEMS
SEE INDUSTRIAL GEMS

GENERATORS, MATERIALS
A DECADE OF IMPROVEMENTS IN GENERATOR ROTOR FORGINGS 67-06 M17-70725

GEOLOGY
SEE PETROLOGY

GERMANIUM, ACOUSTIC PROPERTIES
MICROWAVE EMISSION FROM GERMANIUM CRYSTALS 67-11 M16-80189

GERMANIUM, ADSORPTION
ADSORPTION OF OXYGEN ON ATOMICALLY CLEAN GERMANIUM SURFACES EXAMINED IN THE FIELD EMISSION MICROSCOPE 67-07 M16-73607
ADSORPTION STUDIES ON METALS AND ELEMENTAL SEMICONDUCTORS. PT. 12. WATER ON P-TYPE GERMANIUM POWDERS 67-10 M15-79571

GERMANIUM, ALLOYING ADDITIVE
HALL COEFFICIENT OF ALUMINUM RICH ALLOYS 67-02 M15-59059
MARTENSITE IN TERNARY CU-ZN-BASED BETA-PHASE ALLOYS 67-03 M14-65079
EFFECTS OF GERMANIUM AND TIN ON THE PHOTOELECTRIC PROPERTIES OF ARSENIC SELENIDE 67-05 M16-69386

GERMANIUM, ATOMIC PROPERTIES
EXCITATION SPECTRA OF GROUP 3 IMPURITIES IN GERMANIUM UNDER UNIAXIAL STRESS 67-07 M16-72836
SPIN REVERSAL TRANSITIONS IN IMPURITY HOP CONDUCTION 67-08 M16-75827

GERMANIUM, BAND THEORY
NEW STUDIES OF THE BAND STRUCTURE OF THE DIAMOND-TYPE CRYSTALS 67-04 M16-66739
TRANSMUTATION DOPING AND RECOIL EFFECTS IN SEMICONDUCTORS EXPOSED TO THERMAL NEUTRONS 67-04 M16-67308
DIRECT EDGE PIEZOREFLECTANCE IN GE AND GAAS 67-08 M16-75007

GERMANIUM, BINARY SYSTEMS
THE SYSTEM PLATINUM-GERMANIUM 67-01 M13-57496
CALCULATING SOLIDUS CURVES OF GERMANIUM SOLID SOLUTIONS IN GE-CU, GE-AG AND GE-AU SYSTEMS 67-02 M13-61727
STATE DIAGRAM OF THE CHROMIUM-GERMANIUM SYSTEM 67-02 M13-62182
CALCULATION OF SOLIDUS CURVES IN BINARY SYSTEMS OF GERMANIUM, SILICON AND ON THE A3B5-METAL SECTIONS 67-05 M13-68405
CRYSTAL STRUCTURE OF SM5GE4 67-05 M13-69090
PHASE DIAGRAM OF THE SYSTEM CHROMIUM-GERMANIUM 67-08 M13-75958
CRYSTAL STRUCTURE REFINEMENTS OF THE B 20 AND MONOCLINIC --COGE-TYPE-- POLYMORPHS OF FEGE 67-09 M13-76384
THE LITHIUM-GERMANIUM SYSTEM 67-09 M13-76940
THE SYSTEM PLATINUM-GERMANIUM 67-09 M13-78137
PARAMAGNETIC STUDY OF FE-SI AND FE-GE ALLOYS 67-10 M15-80022
THE MICROSTRUCTURE AND CRYSTALLOGRAPHY OF THE ALUMINUM-GERMANIUM EUTECTIC 67-12 M13-82731
INVESTIGATION OF THE PBSE-GESE AND GESE-GETE SYSTEMS 67-12 M13-83352

GERMANIUM, CHEMICAL ANALYSIS
ON THE CHEMICAL COMPOSITION OF SURFACE FILMS PRODUCED ON GERMANIUM IN DIFFERENT ETCHANTS 67-02 M19-61573
POLAROGRAPHIC ANALYSIS OF GERMANIUM IN ZINC CONCENTRATES AND ORES 67-12 M19-83208

GERMANIUM, CLEANING
ACTIVATION ENERGIES IN THE CHEMICAL ETCHING OF SEMICONDUCTORS IN HNO3-HF-CH3COOH 67-12 M12-82460
METHOD FOR PRODUCING SEMICONDUCTOR CRYSTAL SURFACES WITH A ROUGHNESS OF LESS THAN 0.05 MICRONS 67-12 M12-82499

GERMANIUM, COATING
THE DEPOSITION OF THIN SIO2 LAYERS THROUGH THE HYDROLYSIS OF SILICON TETRACHLORIDE 67-06 M12-71196

GERMANIUM

REFLECTION X-RAY TOPOGRAPHY OF GAAS DEPOSITED ON GE 67-06 M14-70667

GERMANIUM, CRYSTAL DEFECTS
MEASUREMENT OF DISLOCATION VELOCITIES IN GERMANIUM 67-05 M14-69784

GERMANIUM, CRYSTAL GROWTH
CHANGE IN MOSAIC STRUCTURE ASSOCIATED WITH THE DISTRIBUTION OF IMPURITIES IN GROWING SINGLE CRYSTALS AND BICRYSTALS FROM THE MELT 67-01 M14-57102
EPITAXIAL DEPOSITION OF GERMANIUM BY BOTH SPUTTERING AND EVAPORATION 67-01 M14-57106
DISTRIBUTION OF ANTIMONY IN SINGLE CRYSTALS OF GERMANIUM GROWN IN ASYMMETRICAL THERMAL FIELDS 67-02 M13-61724
EPITAXIAL GROWTH OF GERMANIUM ON GERMANIUM SUBSTRATES CLEANED AND HEATED BY ELECTRON BOMBARDMENT 67-02 M14-61525
SINGLE-CRYSTAL GROWTH ON ALPHA-AL203 SUBSTRATE 67-03 M14-65642
EPITAXIAL DEPOSITS OF GERMANIUM GROWN FROM SOLUTIONS OF TIN AND LEAD-TIN MIXTURES 67-03 M14-65772
PREPARATION OF SEMICONDUCTOR MATERIALS. PT. 3 67-03 M16-65456
FORMATION TEMPERATURES FOR EVAPORATED EPITAXIAL GERMANIUM FILMS 67-04 M14-66393
PREPARATION OF TUBULAR GERMANIUM CRYSTALS 67-04 M16-66871
FORMATION TEMPERATURES FOR EVAPORATED EPITAXIAL GERMANIUM FILMS 67-05 M14-68590
DISTRIBUTION OF IMPURITIES IN THE MELT AND EFFECT OF STIRRING IN GROWTH OF GERMANIUM SINGLE CRYSTALS 67-06 M14-72115
CONCERNING THE GROWTH OF EPITAXIAL GERMANIUM FILMS BY THE SANDWICH METHOD 67-09 M14-76768
EFFECT OF TEMPERATURE GRADIENTS ON THE FORMS OF GROWTH OF GERMANIUM CRYSTALS 67-09 M14-76847
GROWTH OF NONDENDRITIC SINGLE-CRYSTAL RIBBONS OF GERMANIUM 67-11 M14-80837
OBTAINING GERMANIUM CRYSTALS BY A. V. STEPANOVS METHOD 67-11 M14-81635

GERMANIUM, CRYSTAL LATTICES
PRODUCTION OF DISORDERED REGIONS IN GERMANIUM BY ELECTRON IRRADIATION 67-01 M16-57127
ENERGY DEPENDENCE OF ANISOTROPY OF DEFECT PRODUCTION IN ELECTRON IRRADIATED DIAMOND-TYPE CRYSTALS. PT. 2. THEORETICAL MODEL 67-01 M16-57945
ELECTRON MICROSCOPE OBSERVATION OF ATOMIC PLANES AND ATOMIC POSITIONS IN GERMANIUM 67-02 M13-61691
LATTICE DEFECTS AND SURFACE PROPERTIES OF CLEAN GERMANIUM 67-04 M13-67738
DISLOCATION DISTRIBUTION IN DEFORMED GERMANIUM 67-06 M13-71538
INTERACTION OF RADIATION DEFECTS WITH DISLOCATIONS IN GERMANIUM 67-06 M13-71763
STUDY OF THE INTERACTION OF DEFECTS BY MEANS OF THE ANOMALOUS TRANSMISSION OF X-RAYS 67-06 M14-70507
LEED MEASUREMENT OF H2S AND H2SE ADSORPTION ON GERMANIUM --111-- 67-06 M15-71028
INTERACTION BETWEEN RADIATION DEFECTS AND DISLOCATIONS IN GERMANIUM 67-06 M16-71917
DISLOCATION DENSITY AND LOCAL SLIP IN GERMANIUM SINGLE CRYSTALS 67-07 M13-73928
MICROSCOPIC EVIDENCE OF PLASTIC DEFORMATION ON CLEAVED GERMANIUM SURFACES 67-10 M13-79158
CRYSTAL STRUCTURE OF THIN GE FILMS PRODUCED BY CRYSTALLIZATION METHOD 67-11 M13-80227

GERMANIUM, CUTTING
ELECTROLYTIC SLICING OF GERMANIUM.. CHARACTERISTICS OF THE --111--, AND --100-- N- AND P- TYPE SURFACES 67-05 M08-68780

GERMANIUM, DETECTORS
FABRICATION OF THICK GERMANIUM DETECTORS 67-08 M20-75307

GERMANIUM, DIFFUSION
SOLID STATE DIFFUSION OF ANTIMONY IN GERMANIUM, FROM THE VAPOR PHASE, IN A VACUUM FURNACE 67-03 M14-65768
INVESTIGATION OF THE DIFFUSION OF ANTIMONY AND INDIUM IN GERMANIUM, INCLUDING EFFECT OF INTERNAL ELECTRIC FIELD 67-06 M14-70869
DIFFUSION OF ANTIMONY IN EPITAXIAL GERMANIUM LAYERS 67-06 M14-71760
DIFFUSION OF INDIUM OVER THE SURFACE OF GERMANIUM 67-06 M14-71831
INVESTIGATION OF THE DIFFUSION OF ANTIMONY AND INDIUM IN GERMANIUM WITH ACCOUNT OF THE INTERNAL ELECTRIC FIELD 67-06 M14-71832
DIFFUSION OF ANTIMONY IN EPITAXIAL LAYERS OF GERMANIUM 67-06 M14-71921
STRESS-INDUCED SOLUTE DIFFUSION ALONG DISLOCATIONS IN DILUTE COPPER ALLOYS 67-07 M14-73911
EXPERIMENTAL STUDY ON THE OUT-DIFFUSION OF SB FROM GE AND ITS APPLICATION TO TRANSISTORS 67-08 M16-74606
THE MECHANISM OF SUBSTITUTIONAL DIFFUSION IN SILICON 67-08 M16-75242
SELF-DIFFUSION OF GERMANIUM ALONG INHERENT DISLOCATIONS IN AN EXTERNAL ELECTRIC FIELD 67-10 M14-80088
EFFECT OF AN INTERNAL ELECTRIC FIELD ON SIMULTANEOUS DIFFUSION OF IMPURITIES IN SEMICONDUCTORS 67-11 M14-81044
EFFECT OF DISLOCATIONS ON THE DIFFUSION OF SOME ELEMENTS OF THE 3 AND 5 GROUPS OF THE PERIODIC TABLE IN GERMANIUM 67-12 M14-83315

GERMANIUM, ELECTRICAL PROPERTIES
STUDY OF IRREGULARITIES DETECTED BY ANODE PICKLING IN N-TYPE GERMANIUM MONOCRYSTALS 67-02 M13-59566
PHOTOCONDUCTIVITY OF ANISOTROPICALLY DEFORMED INTRINSIC GERMANIUM 67-02 M15-61522
ON THE VOLTAGE INDUCED BY AN ELECTRON BEAM IN A BULK SEMICONDUCTOR CRYSTAL 67-02 M16-60513
A CONTACTLESS METHOD FOR MEASURING SPECIFIC RESISTANCE OF SEMICONDUCTOR PLATES AND EPITAXIAL LAYERS 67-03 M15-65075
DIFFUSION ANALYSIS OF THE OBSERVED TIME LAG OF THE THERMAL COEFFICIENT OF RESISTIVITY OF GERMANIUM 67-03 M16-65886
ANNEALING OF FAST NEUTRON DAMAGE IN IMPURITY-CONDUCTING N-TYPE GERMANIUM 67-03 M16-65892
ANNEALING OF NEUTRON-IRRADIATION-INDUCED CHANGES IN IMPURITY CONDUCTION IN ANTIMONY-DOPED GERMANIUM 67-04 M16-66787
EFFECT OF A SURFACE OXIDE FILM ON THE ELECTROPHYSICAL SURFACE PROPERTIES OF GERMANIUM 67-05 M15-68573
GERMANIUM RESISTANCE THERMOMETRY IN THE RANGE 2.1 TO 5.0 K 67-05 M15-69501
PIEZ/-HALL EFFECT IN N-TYPE GERMANIUM 67-05 M15-69771
ELECTRICAL PROPERTIES OF EPITAXIAL GE FILMS DEPOSITED ON --111-- CAF2 SUBSTRATES 67-05 M16-69212
DECREASE OF BUILT-IN VOLTAGE IN TUNNEL DIODES CAUSED BY IRRADIATION 67-05 M16-69294
PHOTOCONDUCTIVITY QUENCHING SPECTRA OF A THIN SAMPLE OF GERMANIUM AT 77 C 67-05 M16-69389
INFLUENCE OF SURFACE BARRIERS ON THE PHOTOCONDUCTIVITY OF GERMANIUM 67-05 M16-69393
STRAIN SENSITIVITY OF VACUUM DEPOSITED THIN FILMS 67-06 M12-71953
PHOTOCONDUCTIVE AND ELECTRICAL PROPERTIES OF UNCOMPENSATED BERYLLIUM-DOPED GERMANIUM 67-06 M15-71142
THERMOELECTRIC POWER OF GERMANIUM. EFFECT OF 2000-ATM PRESSURE 67-06 M16-69919
ELECTRICAL AND OPTICAL PROPERTIES OF AMORPHOUS GERMANIUM 67-06 M16-69921
IMPURITY PHOTOCONDUCTIVITY SPECTRA OF P-TYPE GERMANIUM WITH GA, HG, AU AND NI IMPURITIES 67-06 M16-70050
SURFACE-STATE MODELS FOR CLEAN AND OXYGEN-COVERED GERMANIUM 67-06 M16-71024
IMPURITY PHOTOCONDUCTIVITY OF GERMANIUM DOPED WITH ANTIMONY, ARSENIC, BORON, OR INDIUM 67-06 M16-71757
CONTACTLESS METHOD FOR MEASURING THE SPECIFIC RESISTANCE OF SEMICONDUCTOR PLATES AND EPITAXIAL LAYERS 67-07 M15-72966
UNIAXIAL STRESS EFFECT OF GE PN JUNCTIONS DOPED WITH COPPER 67-07 M16-73321
FREE CARRIER PIEZOABSORPTION IN N-TYPE GERMANIUM 67-08 M16-75005
A NEW CURRENT INSTABILITY IN N-TYPE GERMANIUM 67-09 M15-77153
CONTROL OF THE SURFACE POTENTIAL OF GERMANIUM BY MEANS OF A VARIABLE PH ELECTROLYTE CONTAINING HYDROGEN PEROXIDE AND POTASSIUM CHLORIDE 67-09 M15-77897
EXCITATION SPECTRA AND PHOTO-IONIZATION OF NEUTRAL MERCURY CENTERS IN GERMANIUM

67-09 M16-77171
LONGITUDINAL MAGNETORESISTANCE AND HALL MOBILITY OF N-TYPE GERMANIUM AT HIGH ELECTRIC FIELDS
67-10 M15-79153
FIELD EMISSION FROM P-TYPE GERMANIUM
67-11 M15-80224

GERMANIUM, EXTRACTION
SEPARATION OF GERMANIUM BY LIQUID-LIQUID EXTRACTION
67-10 M03-79860
METHOD OF RECOVERING REJECT TRANSISTORIZED DEVICES
67-10 M03-79863
INVESTIGATION OF CONDITIONS OF ROASTING A COPPER-PYRITE CONCENTRATE CONTAINING AN INCREASED AMOUNT OF RARE METALS 67-11 M03-81617

GERMANIUM, INTERMETALLICS
LATTICE INSTABILITY OF HIGH-TRANSITION-TEMPERATURE SUPERCONDUCTORS. PT. 1. POLYCRYSTALLINE A-15 COMPOUNDS 67-05 M16-69516
NATURE OF THE DEFECTS IN GERMANIUM TELLURIDE
67-05 M16-69578
THE CRYSTAL STRUCTURES OF CR11GE19, MO13GE23 AND V17GE31 67-09 M13-76451
THE SYSTEM PLATINUM-GERMANIUM 67-09 M13-78137
MOSSBAUER STUDY OF INTERMETALLIC FE5GE3 SYSTEM
67-10 M15-78442
MAGNETIC PROPERTIES OF THE COMPOUND MN3GE2 IN STRONG MAGNETIC FIELDS 67-10 M15-79540

GERMANIUM, IRRADIATION
INFRARED ABSORPTION OF THE GAMMA-INDUCED SURFACE LAYER ON GERMANIUM 67-09 M16-77437
THE EFFECT OF THERMAL DEFECTS ON THE STABILITY OF GERMANIUM AGAINST RADIATION 67-10 M16-79475
IRRADIATION DAMAGE IN N-TYPE GERMANIUM AT 4.2 K
67-12 M16-82531
ELECTRON PARAMAGNETIC RESONANCE IN ELECTRON-IRRADIATED GERMANIUM 67-12 M16-82536

GERMANIUM, MACHINING
SYNTHETIC DIAMONDS AND THEIR APPLICATIONS IN MODERN SOVIET INDUSTRY 67-03 M08-65161

GERMANIUM, MAGNETIC PROPERTIES
SHUBNIKOV-DE HAAS EFFECT IN IMPURITY BAND
67-04 M16-67424
MAGNETORESISTANCE OF UNIAXIALLY STRESSED GERMANIUM IN IMPURITY BAND CONDUCTION REGION
67-05 M16-69754
THE ANISOTROPY OF PHOTOMAGNETIC EFFECTS IN GERMANIUM AND SILICON 67-10 M15-79118
LOW-TEMPERATURE MAGNETORESISTANCE OF N-TYPE GERMANIUM DOPED WITH SMALL AND INTERMEDIATE CONCENTRATIONS OF PHOSPHORUS 67-11 M15-81395
HOP-CONDUCTION MAGNETORESISTANCE IN P-TYPE GERMANIUM 67-11 M15-81396

GERMANIUM, MEASURING INSTRUMENTS
THE USE OF SEMICONDUCTORS FOR THE STUDY OF BOILING HEAT TRANSFER TO LOW TEMPERATURE LIQUIDS
67-08 M15-75652

GERMANIUM, MECHANICAL PROPERTIES
FRACTURE OF SILICON AND GERMANIUM INDUCED BY PULSED ELECTRON IRRADIATION 67-03 M17-65744
EFFECT OF SOME FACTORS ON THE MAGNITUDE AND DISTRIBUTION OF INTERNAL RESIDUAL STRESSES DURING THE CRYSTALLIZATION OF GERMANIUM SINGLE CRYSTALS
67-06 M14-70743
ANOMALOUS TRANSMISSION IN STRAINED DUCTILE AND BRITTLE CRYSTALS BY THE DIVERGENT X-RAY BEAM METHOD 67-06 M14-71283
THE THIRD ORDER ELASTIC CONSTANTS OF DOPED N-TYPE GERMANIUM 67-07 M17-72841
MICROHARDNESS AND ITS ANISOTROPY IN SINGLE CRYSTALS OF GERMANIUM ALLOYED WITH VARIOUS ADDITIVES
67-08 M17-75445
EFFECT OF LIGHT ON THE NORMAL ELASTIC MODULUS OF GERMANIUM AND SILICON 67-09 M17-77065
THE PROPERTIES OF THE LOW-TEMPERATURE INTERNAL FRICTION PEAK IN SILICON 67-10 M17-79023
EFFECT OF FREE CARRIERS ON SHEAR MODULUS OF GERMANIUM 67-10 M17-79114
FRACTURE OF GERMANIUM AT ROOM TEMPERATURE
67-11 M17-81264

GERMANIUM, METALLOGRAPHY
PEROXIDE ETCHING OF GERMANIUM 67-03 M13-65427
PRODUCTION OF CARBON REPLICAS OF TRANSVERSE SECTIONS OF GERMANIUM FILMS 67-05 M13-69628

GERMANIUM, MICROSTRUCTURE
SHIFT OF THE DISLOCATION IMAGE UNDER THE EFFECT OF ANOMALOUS TRANSMISSION OF X-RAYS
67-02 M13-60778
THE STRUCTURE OF PERFECT DENDRITIC GERMANIUM CRYSTALS 67-02 M13-61097
VACUUM THERMAL ETCHING OF GERMANIUM AND SILICON SURFACES 67-06 M13-72175
A STUDY OF THE GASEOUS ETCHING OF GERMANIUM BY OXYGEN 67-09 M13-76482
THE METALLIC ETCHING OF INDIUM ANTIMONIDE AND GERMANIUM 67-09 M13-76631
ELECTROCHEMICAL POLISHING OF GERMANIUM
67-09 M13-77094

GERMANIUM, OPTICAL PROPERTIES
ANOMALOUS OPTICAL EFFECTS IN GERMANIUM FILMS
67-01 M15-57219
OPTICAL PROPERTIES OF GERMANIUM IN THE SPECTRAL REGION 1.7 EV TO 2.1 EV 67-04 M15-66746
OPTICAL PROPERTIES AND ELECTRONIC STRUCTURE OF AMORPHOUS GERMANIUM 67-04 M16-66747
EXTRINSIC PHOTOCONDUCTIVITY IN GE CAUSED BY DISLOCATIONS 67-07 M16-72954

GERMANIUM, PHASE TRANSFORMATIONS
PHASE AND ORDER TRANSITIONS DURING AND AFTER FILM DEPOSITION 67-01 M14-57121
DECOMPOSITION OF A GERMANIUM SOLID SOLUTION TO ALUMINUM IN AN ALUMINUM ALLOY WITH 4 PER CENT GE
67-10 M14-79913
THE STRUCTURE OF LIQUID GERMANIUM
67-11 M14-81637

GERMANIUM, PHOTOCONDUCTIVITY
SLOW PHOTOCONDUCTIVITY RELAXATION IN OXYGEN-DOPED N-GERMANIUM 67-08 M16-75131
PHOTOCONDUCTIVITY OF ANTIMONY-DOPED GERMANIUM IN THE FAR-INFRARED REGION 67-09 M16-76371

GERMANIUM, PHOTOELECTRIC EFFECTS
EXTRINSIC PHOTOCONDUCTIVITY OF GERMANIUM DOPED WITH ANTIMONY, ARSENIC, BORON, OR INDIUM
67-10 M15-79451

GERMANIUM, PHYSICAL PROPERTIES
FIELD-EMISSION MICROSCOPY OF GERMANIUM
67-05 M13-69769
ENGINEERING PROPERTIES OF SELECTED CERAMIC MATERIALS 67-07 M05-73875
METALLURGY AND PHYSICAL PROPERTIES OF MERCURY-DOPED GERMANIUM RELATED TO THE PERFORMANCES OF THE INFRARED DETECTOR 67-08 M16-74599
INFLUENCE OF DEFECTS AND OF THE INTERACTION BETWEEN THEM ON PHONON SCATTERING IN HEAVILY DOPED GE AND SI CRYSTALS 67-10 M15-79013
TEMPERATURE DISTRIBUTION IN AN INGOT COOLED BY SURFACE RADIATION 67-12 M06-82115

GERMANIUM, RADIATION EFFECTS
MOBILITY OF POINT DEFECTS IN GERMANIUM
67-04 M14-67307
RADIATION EFFECTS IN SEMICONDUCTORS
67-04 M16-67306
THE AMORPHISM IN POLYCRYSTALLINE GERMANIUM FILMS RESULTING FROM IRRADIATION WITH ARGON IONS
67-09 M16-76772

GERMANIUM, REACTIONS /CHEMICAL/
DISSOLVING GERMANIUM IN HCL WITH OXIDIZERS
67-02 M14-61723
GERMANIUM OXIDATION IN NITRIC ACID
67-05 M14-68625
CHEMICAL ETCHING OF GERMANIUM IN THE SYSTEM HF-H2O2-H2O 67-06 M14-70666
METALLOCHEMISTRY OF GERMANIDES 67-07 M14-73274
ETCHING OF GERMANIUM WITH IODIDE VAPOR IN AN ELECTRIC FIELD 67-09 M14-76769

GERMANIUM, REFINING
DEPOSITION OF GERMANIUM BY TANNIN FROM SULFURIC ACID SOLUTIONS 67-03 M03-65584
OBTAINING PURE METALS BY CHEMICAL METHODS
67-04 M03-67843
RECRYSTALLIZATION OF GERMANIUM THIN FILMS ON INSULATING SUBSTRATES BY ELECTRON BEAM ZONE MELTING 67-06 M16-72178
EXTRACTION OF GERMANIUM AND GALLIUM FROM COAL FLY ASH AND PHOSPHORUS FURNACE FLUE DUST
67-07 M03-73617
LIQUID ENCAPSULATION ZONE REFINING --LEZOR--
67-12 M03-82461

GERMANIUM, RESISTORS
DIFFUSED GERMANIUM RESISTORS FOR THERMOMETRY IN 20 TO 70 K. RANGE 67-04 M15-67401

GERMANIUM, SEMICONDUCTORS
ELECTROREFLECTANCE MEASUREMENTS WITH THE ELECTROLYTE METHOD IN INFRARED
67-03 M16-65137
METALLURGY IN THE SEMICONDUCTOR INDUSTRY
67-04 M16-68044
DEPENDENCE OF CARRIER SCATTERING ANISOTROPY IN N-GE ON IMPURITY CONCENTRATION 67-05 M15-68576

GERMANIUM

TECHNIQUES FOR MEASURING THE TWIN SPACING IN DENDRITES AND WEBS OF SEMICONDUCTORS 67-06 M14-71409
EXCITON ABSORPTION IN DOPED GERMANIUM 67-08 M16-75234
METALLURGICAL ASPECTS OF THE ALLOY-DIFFUSION METHOD IN TRANSISTOR TECHNOLOGY 67-10 M14-79954
CERTAIN PROBLEMS IN THE PRODUCTION AND INVESTIGATION OF EPITAXIAL GERMANIUM LAYERS 67-11 M14-81640
EFFECTS OF ELECTRON IRRADIATION ON THE THERMAL CONDUCTIVITY OF N-AND P-TYPE GERMANIUM 67-11 M16-81485
TRANSVERSE MAGNETORESISTANCE IN N-TYPE GERMANIUM 67-12 M15-82534
AN ELECTRON BEAM METHOD OF MEASURING RESISTIVITY DISTRIBUTION IN MSEMICONDUCTORS 67-12 M15-82673
ELECTRICAL PROPERTIES OF SEMICONDUCTOR SURFACES 67-12 M15-83227
DAMAGE FORMATION RATES IN GE SUBJECT TO THERMAL TREATMENT 67-12 M16-82020

GERMANIUM, SINGLE CRYSTALS
LOW ENERGY ELECTRON DIFFRACTION STUDIES ON GE AND NA-COVERED GE 67-05 M13-69037
AN ABSOLUTE PRECISION MEASUREMENT OF LATTICE CONSTANTS ON GE AND AL MONOCRYSTALS WITH ELECTRON DIFFRACTION 67-07 M13-72729
APPLICATION OF X-RAY METHODS TO THE STUDY OF THE REAL STRUCTURE OF MONOCRYSTALLINE EPITAXIAL LAYERS 67-08 M16-75239
YIELD BEHAVIOR OF DISLOCATION-FREE GERMANIUM FROM 500 C. TO THE VICINITY OF THE MELTING POINT 67-11 M17-81084

GERMANIUM, SUPERCONDUCTIVITY
SUPERCONDUCTIVITY OF GERMANIUM AND SILICON AT HIGH PRESSURE 67-02 M16-60820

GERMANIUM, SURFACE FINISHING
THE SIMULTANEOUS ELECTROPOLISHING OF BOTH FACES OF GERMANIUM SLICES 67-05 M12-68778

GERMANIUM, SURFACE PROPERTIES
INFLUENCE OF MAGNETIC FIELD ON SURFACE FIELD-EFFECT IN GERMANIUM 67-08 M15-75079

GERMANIUM, TEMPERATURE MEASURING INSTRUMENTS
CALIBRATION AND USE OF GERMANIUM RESISTANCE THERMOMETERS FOR PRECISE HEAT CAPACITY MEASUREMENTS FROM 1 TO 25 K. HIGH PURITY COPPER FOR INTERLABORATORY HEAT CAPACITY COMPARISONS 67-06 M20-70832

GERMANIUM, TERNARY SYSTEMS
INVESTIGATION OF PHASE EQUILIBRIA IN ALUMINUM-RICH ALLOYS OF THE GE-AL-SB SYSTEM 67-01 M14-57653
INVESTIGATION OF THE CE-SI-GE SYSTEM 67-05 M14-68646
PHASE DIAGRAM OF ALLOYS OF THE COPPER-GERMANIUM-TIN TERNARY SYSTEM 67-06 M13-70375
THE SYSTEM GE-SE-TE AND THE PREPARATION AND PROPERTIES OF THE NEW NON-STOICHIOMETRIC COMPOUND GESEO.75TEO.25 67-09 M14-77015
THE PHASE DIAGRAM OF A TERNARY SYSTEM OF COPPER-GERMANIUM-TIN ALLOYS 67-10 M13-80027
STUDY OF THE MG2SN-MG2GE SYSTEM 67-12 M13-83354

GERMANIUM, THERMAL PROPERTIES
DIFFUSED SEMICONDUCTOR LOW TEMPERATURE THERMOMETERS 67-01 M19-57225
LOW-TEMPERATURE GERMANIUM RESISTANCE THERMOMETRY 67-01 M19-57228
HIGH-TEMPERATURE SPECIFIC HEAT OF GERMANIUM 67-03 M15-65885
ANHARMONIC CONTRIBUTIONS TO THE HEAT CAPACITIES OF SILICON AND GERMANIUM 67-03 M16-65035
LOW-TEMPERATURE THERMAL CONDUCTIVITY OF FAST-NEUTRON-IRRADIATED SILICON AND GERMANIUM 67-07 M15-72626
PHOTO AND THERMAL EFFECTS IN COMPENSATED ZINC-DOPED GERMANIUM 67-10 M15-79164
EFFECTS OF ELECTRON IRRADIATION ON THE THERMAL CONDUCTIVITY OF N-AND P-TYPE GERMANIUM 67-11 M16-81485

GERMANIUM, THIN FILMS
GROWTH MECHANISM OF VAPOR DEPOSITED GERMANIUM FILMS 67-03 M14-65429
TEXTURAL AND ELECTRICAL PROPERTIES OF VACUUM-DEPOSITED GERMANIUM FILMS 67-05 M14-68622
EPITAXIAL GROWTH OF GERMANIUM ON SINGLE CRYSTAL SPINEL 67-09 M14-77898
GROWTH AND STRUCTURE OF GE THIN FILMS PRODUCED BY THE METHOD OF FOIL CRYSTALLIZATION 67-11 M13-80226
SEEBECK COEFFICIENT OF THIN-FILM GERMANIUM 67-12 M15-82361

GERMANIUM, TRANSISTORS
MANUFACTURE AND TESTING OF TRANSISTORS 67-06 M16-70234

GERMANIUM, TRANSPORT PROPERTIES
SURFACE CONDUCTIVITY ON DEGENERATE GERMANIUM 67-01 M16-57553
MAGNETORESISTANCE OF N-TYPE GERMANIUM IN THE PHONON-ASSISTED HOPPING CONDUCTION RANGE AT HIGH MAGNETIC FIELDS 67-02 M15-60771
HOT CARRIER CONCENTRATION IN NI-TYPE GERMANIUM--A SUGGESTED EXPERIMENT 67-02 M15-60772
MODIFICATIONS OF THE DENSITY AND MOBILITY OF MAJOR CARRIERS IN N-TYPE GERMANIUM BOMBARDED BY PROTONS OF 600 MVT 67-02 M16-60171
EFFECT OF STRUCTURAL DEFECTS ON SOME ELECTRICAL PROPERTIES OF GERMANIUM DOPED WITH GOLD AND ANTIMONY 67-03 M16-65461
SOLID-STATE ELECTRONICS PT. 2. PROPERTIES OF SEMICONDUCTORS 67-03 M16-65669
THE INFLUENCE OF COPPER IONS ON FAST SURFACE STATES OF GERMANIUM 67-03 M16-65804
NEGATIVE MAGNETORESISTANCE IN THE METALLIC IMPURITY CONDUCTION 67-04 M16-66783
AN EXPERIMENTAL INVESTIGATION OF THE HALL EFFECT IN THE HOPPING REGION 67-04 M16-66784
THERMOMAGNETIC EFFECTS IN DEFORMED N-TYPE GE 67-06 M15-70521
CONCERNING NEGATIVE PHOTOCONDUCTIVITY IN GERMANIUM 67-06 M15-70527
HALL EFFECT VOLTAGE REVERSAL IN SHOCK-LOADED P-TYPE --100-- GERMANIUM 67-06 M16-70086
GALVANOMAGNETIC AND THERMOMAGNETIC EFFECTS IN STRAINED N-GE 67-06 M16-70504
ELASTOGALVANOMAGNETIC EFFECTS IN N-TYPE GE 67-06 M16-70505
STUDY OF THE EMISSION PROPERTIES OF GERMANIUM ON VARIOUS FACES OF A TUNGSTEN SINGLE CRYSTAL 67-06 M16-70506
TEST OF THE READ MODEL CONCERNING THE ELECTRON MOBILITY IN PLASTICALLY DEFORMED N-TYPE GE 67-06 M16-71000
LIFETIME OF MINORITY CARRIERS IN MERCURY-DOPED GERMANIUM 67-06 M16-71764
ELECTRICAL PROPERTIES OF HEAVILY DOPED P-TYPE GERMANIUM CONTAINING BERYLLIUM 67-06 M16-71773
LIFETIME OF MINORITY CARRIERS IN GERMANIUM DOPED WITH MERCURY 67-06 M16-71915
ELECTRIC PROPERTIES OF P-TYPE GERMANIUM STRONGLY DOPED WITH BERYLLIUM 67-06 M16-71924
HOT-CARRIER D-C CONDUCTION IN ELEMENTAL SEMICONDUCTORS 67-07 M16-73181
HALL MOBILITY ANNEALING IN ELECTRON IRRADIATED GERMANIUM 67-07 M16-73883
EFFECT OF STRESS ON GERMANIUM AND SILICON P-N JUNCTIONS 67-08 M16-74605
CERTAIN PROBLEMS IN GROWING EPITAXIAL FILMS OF GERMANIUM BY THE IODIDE SANDWICH METHOD 67-09 M14-76767
SECONDARY EMISSION STUDIES ON GE AND NA-COVERED GE 67-09 M16-77442
THE CONCENTRATION OF CHARGE CARRIERS IN A SEMICONDUCTOR ILLUMINATED BY A LASER 67-10 M15-79469
CARRIER RECOMBINATION IN NICKEL-DOPED GERMANIUM FROM LIFETIME AND NOISE MEASUREMENTS 67-10 M16-79010
STUDY OF BARIUM ADSORPTION ON GERMANIUM BY FIELD-EMISSION MICROSCOPY 67-10 M16-79021
ELECTRICAL PROPERTIES OF GERMANIUM COMPOUNDS 67-11 M15-80610

GERMANIUM, ULTRASONICS
THEORY OF ULTRASONIC ATTENUATION BY NEUTRAL DONORS IN GERMANIUM 67-01 M16-57960

GERMANIUM, WELDING
PRESSURE MICROWELDING IN THE MANUFACTURE OF SEMICONDUCTOR APPARATUS 67-04 M11-67156

GERMANIUM BASE ALLOYS, MAGNETIC PROPERTIES
ELECTRICAL RESISTANCE FERROMAGNETIC CR-GE ALLOYS IN THE 20 TO 300 K. TEMPERATURE RANGE 67-11 M15-80747

GERMANIUM BASE ALLOYS, MICROSTRUCTURE
INFLUENCE OF THE SUPERHEATING OF AN ALLOY ON HETEROGENEITY OF SOLID SOLUTIONS 67-10 M14-79138

GERMANIUM BASE ALLOYS, THERMAL PROPERTIES
ENTHALPY OF BETA AND DELTA PHASES IN THE FE-GE SYSTEM AT HIGH TEMPERATURES 67-02 M15-61554
GERMANIUM BASE ALLOYS, THERMOCOUPLES
HIGH-TEMPERATURE THERMOCOUPLE ELEMENTS OF GE-SI MIXED CRYSTALS FOR THERMAL GENERATORS 67-07 M20-74023
GERMANIUM BASE ALLOYS, THERMODYNAMICS
CALCULATING THE MAXIMUM CONCENTRATION OF GERMANIUM AND SILICON SOLID SOLUTIONS ON A SOLIDUS CURVE 67-03 M14-65588
GERMANIUM COMPOUNDS, CRYSTAL GROWTH
GROWTH MECHANISMS AND CRYSTALLINE QUALITY OF DIAMOND TYPE COMPOUNDS AND CRYSTALS IN THE 3-5 AND 2-6 GROUPS 67-07 M14-73926
GERMANIUM COMPOUNDS, OPTICAL PROPERTIES
OPTICAL PROPERTIES OF GETE 67-07 M15-73296
GERMANIUM COMPOUNDS, PHASE TRANSFORMATIONS
INVESTIGATION OF THE PHASE TRANSITION AND THE STRUCTURE OF ALPHA-GETE 67-09 M14-76771
PHASE TRANSITION IN GERMANIUM TELLURIDE AT HIGH PRESSURES 67-10 M13-79544
GERMANIUM COMPOUNDS, PHYSICAL PROPERTIES
X-RAY KAPPA ABSORPTION SPECTRA OF TITANIUM, VANADIUM AND GERMANIUM IN GERMANIDES 67-02 M15-62184
CRYSTAL STRUCTURE AND MAGNETIC PROPERTIES OF SOME RARE EARTH GERMANIDES 67-10 M15-79009
GERMANIUM COMPOUNDS, REACTIONS /CHEMICAL/
METALLOCHEMISTRY OF GERMANIDES 67-07 M14-73274
GERMANIUM COMPOUNDS, SEMICONDUCTORS
THE PREPARATION AND PROPERTIES OF ZNSIAS2, ZNGEP2 AND CDGEP2 SEMICONDUCTING COMPOUNDS 67-03 M16-65394
THERMAL CONDUCTIVITY OF SILICON, GERMANIUM, 3-5 COMPOUNDS AND 3-5 ALLOYS 67-05 M15-69600
GERMANIUM COMPOUNDS, SUPERCONDUCTIVITY
OBSERVATION OF THE SUPERCONDUCTING ENERGY GAP IN A SEMICONDUCTOR --GETE-- 67-01 M16-58638
SUPERCONDUCTING PROPERTIES OF GERMANIUM TELLURIDE 67-04 M16-66792
SUPERCONDUCTIVITY AT 20 DEGREES KELVIN 67-07 M16-74245
GERMANIUM COMPOUNDS, SYNTHESIS
LANTHANUM GERMANIDES 67-07 M14-73275
GERMANIUM COMPOUNDS, THERMODYNAMICS
ENTHALPY OF SOLID AND LIQUID FE4GE3 AND FEGE COMPOUNDS 67-09 M15-77123
GERMANIUM COMPOUNDS, TRANSPORT PROPERTIES
ON THE ELECTRICAL PROPERTIES OF THE ZNGEAS2 SEMICONDUCTOR COMPOUND 67-04 M16-67107
HALL EFFECT IN SEMICONDUCTORS WITH TWO TYPES OF CARRIER 67-06 M16-70868
GERMANIUM COMPOUNDS, X RAY ANALYSIS
X-RAY K-ABSORPTION SPECTRA OF TITANIUM, VANADIUM AND GERMANIUM IN GERMANIDES 67-08 M13-75960
GETTERING
USE OF YTTRIUM IN GETTERING OXYGEN AND NITROGEN IN NIOBIUM-BASE ALLOYS 67-02 M13-61777
A NEW GETTER SYSTEM FOR OPAQUE VACUUM TUBES, USING SAMARIUM OR THULIUM 67-06 M20-71493
BIAS SPUTTERING.. ITS TECHNIQUES AND APPLICATIONS 67-07 M12-73835
THE GETTERING OF IRON FROM SILICON 67-11 M14-80538

GIBBS FREE ENERGY
SEE FREE ENERGY
GIRDER BRIDGES, MECHANICAL PROPERTIES
FAULTS IN DESIGN REVEALED BY SERVICE FAILURES. PT. 2 67-08 M17-75615
GIRDERS, MATERIALS
INTERDEPENDENCE OF TYPE OF SECTION AND STRENGTH OF STEEL 67-04 M17-66566
THE INTERCONNECTION BETWEEN TYPES OF SECTION AND STEEL STRENGTH 67-07 M17-73423
GIRDERS, MECHANICAL PROPERTIES
BRITTLE FRACTURES IN SERVICE 67-06 M17-70561
GIRDERS, WELDING
STRENGTH OF THIN WALLED BOX SECTION GIRDERS 67-02 M20-60006
THE INFLUENCE OF RESIDUAL STRESSES ON THE FUNCTIONAL STABILITY OF WELDED STRUCTURES 67-04 M11-67071
COMPOSITE CONSTRUCTION CALLS FOR CONNECTORS 67-06 M11-71495

GLASS
SEE ALSO GLASS FIBERS
GLASS WOOL
GLASS, ADHESION
THE ADHESION TEMPERATURE BETWEEN GLASS AND METALS 67-04 M12-67421
GLASS, COATING
CONTROL GLASS PROPERTIES WITH FILMS AND COATINGS 67-12 M12-83176
ADHESION OF SPUTTERED GOLD FILMS ON GLASS 67-12 M12-83548
GLASS, COATINGS
THE WELDING OF GLASS-COATED MICROWIRE TO THICK GLASS-COATED CONDUCTORS 67-02 M11-60196
USING MOLTEN GLASS TO HEAT STEEL BILLETS 67-07 M10-73955
GLASS COATING OF THE INTERNAL SURFACE OF STEEL TUBES BY A POWDER METHOD 67-08 M12-75016
USE OF GLASS-BASED SUSPENSION COATINGS TO PROTECT METAL FROM OXIDATION DURING HEATING 67-12 M12-81719
GLASS, CORROSION
HEAT RESISTANT STEELS --WORKING-- IN DIRECT CONTACT WITH MOLTEN GLASS. PT. 2 67-12 M18-83461
GLASS, CUTTING
GAS-BORNE ABRASIVE CUTS BRITTLE MATERIALS 67-06 M08-71205
GLASS, HEATING
STAMPING OF BILLETS HEATED IN MOLTEN GLASS 67-02 M07-60678
GLASS, LUBRICANTS
LUBRICANTS FOR HOT BROACHING OF ROUND BILLETS 67-09 M07-76550
STEEL EXTRUSION USING GLASS AS A LUBRICANT. --UGINE-SEJOURNET PROCESS-- 67-09 M07-77154
GLASS, LUBRICATION
CHOOSING LUBRICANTS FOR HOT PIERCING OF ROUND BILLETS 67-07 M07-73787
GLASS, MACHINING
SYNTHETIC DIAMONDS AND THEIR APPLICATIONS IN MODERN SOVIET INDUSTRY 67-03 M08-65161
DIAMOND WHEELS PLUS ULTRASONICS CUT CERAMICS FASTER 67-06 M08-71340
GLASS, POWDER METALLURGY
USE OF GLASS IN POWDER METALLURGY 67-02 M09-61639
INVESTIGATION OF THE SINTERING PROCESS OF METAL-GLASS COMPOSITES 67-04 M09-66254
THE MECHANICAL PROPERTIES OF SINTERED METAL-GLASS MATERIALS 67-06 M09-70963
SINTERING PROCESSES IN METAL-GLASS MATERIALS. PT. 1. INFLUENCE OF SINTERING TEMPERATURE ON SHRINKAGE PROCESSES 67-10 M09-78986
GLASS, SURFACE PROPERTIES
THE WETTING OF PLATINUM AND ITS ALLOYS BY GLASS. PT. 1 67-07 M15-72880
GLASS FIBERS
SEE ALSO GLASS WOOL
FIBER OPTICS LOOK INTO A WELD 67-03 M19-65765
GLASS FIBERS, FILTRATION
FILTERING SECONDARY ALUMINUM ALLOYS 67-04 M03-67510
GLASS FIBERS, TEMPERATURE EFFECTS
LOW TEMPERATURE THERMAL CONDUCTIVITIES OF TWO HIGH COMPRESSIVE STRENGTH MATERIALS 67-06 M15-72260
GLASS WOOL
STABILITY OF REFRACTORY COMPOUNDS IN FUSED BASALT 67-06 M09-71468
STABILITY OF REFRACTORY COMPOUNDS IN FUSED BASALT 67-12 M09-82789

GLAZES
ZNO AS A MILL ALLOY IN GLAZES 67-08 M12-74561
GLISSILE DISLOCATIONS
THE NUCLEATION OF MILITARY TRANSFORMATIONS 67-05 M14-69728
SLIP AND THE CONCEPTION OF SPLITTING OF DISLOCATIONS IN BCC METALS 67-06 M14-71522
THE WIDTHS OF GLISSILE EXTENDED DISLOCATIONS IN ANISOTROPIC FACE-CENTERED CUBIC CRYSTALS 67-09 M13-76588

GLOBULES
SEE SPHERES
GLUED JOINTS, MECHANICAL PROPERTIES
RIGID TEST BODY FOR METAL ADHESIVES 67-01 M11-58299
MECHANICAL STRENGTH PROPERTIES OF ADHESIVE BONDED JOINTS AND EFFECT OF AGING CONDITIONS 67-04 M17-66397
FRAMES MADE FROM ALUMINUM SECTIONS BY GLUEING 67-08 M11-75607
GLUED JOINTS, NONDESTRUCTIVE TESTING
NDT ON ADHESIVE JOINTS MAY OPEN UP NEW JOBS

GLUED JOINTS
67-06 M19-70717
GLUED JOINTS, WEAR
INFLUENCE OF OXIDE FILMS ON FRICTION AND WEAR DURING SLIDING 67-09 M17-76369
GLUING
FRAMES MADE FROM ALUMINUM SECTIONS BY GLUEING 67-08 M11-75607
ADHESION OF METALS AND PLASTICS 67-09 M11-78188
GOLD
GOLD--RECOVERY, PROPERTIES, AND APPLICATIONS 67-02 M01-58903
GOLD, ALLOYING ADDITIVE
DILUTE SOLUTIONS IN MOLTEN ALLOYS 67-02 M15-60636
MARTENSITE IN TERNARY CU-ZN-BASED BETA-PHASE ALLOYS 67-03 M14-65079
THE WETTING OF PLATINUM AND ITS ALLOYS BY GLASS. PT. 2. RHODIUM-PLATINUM ALLOYS AND THE INFLUENCE OF GOLD 67-05 M15-69719
ATOMIC DISPLACEMENTS IN IRRADIATED EQUIATOMIC AG-AU 67-08 M14-75823
A THERMODYNAMIC STUDY OF SOLID IRON-GOLD AND COBALT-GOLD ALLOYS BY THE USE OF SOLID OXIDE ELECTROLYTES 67-08 M15-76208
OXIDATION OF COPPER AND COPPER-GOLD ALLOYS IN CO2 AT 1000 C. PT. 1. LINEAR KINETICS 67-09 M18-77889
GOLD, ATOMIC PROPERTIES
A REPLY TO HUME-ROTHERYS NOTE ON THE ENGEL-BREWER THEORY 67-06 M16-71969
COMMENTS ON PAPERS RESULTING FROM HUME-ROTHERYS NOTE-1965 67-06 M16-71970
DISPERSION ENERGIES AND SURFACE TENSIONS OF NOBLE METALS 67-08 M16-75384
MORSE-POTENTIAL EVALUATION OF SECOND- AND THIRD-ORDER ELASTIC CONSTANTS OF SOME CUBIC METALS 67-09 M16-77156
THE EFFECT OF TENSION ON THE FERMI SURFACES OF THE NOBLE METALS 67-09 M16-77525
GOLD, ATOMIC STRUCTURE
THE ANOMALOUS SURFACE STRUCTURE OF GOLD 67-10 M16-79548
GOLD, ATTENUATION
ELECTRON VISCOSITY AND ULTRASONIC ATTENUATION IN NOBLE METALS 67-05 M16-69813
GOLD, BAND THEORY
PULSE ANNEALING OF GOLD 67-11 M14-80778
ABSORPTION MEASUREMENTS OF COPPER, SILVER, TIN, GOLD AND BISMUTH IN THE FAR ULTRAVIOLET 67-11 M16-80771
GOLD, BENEFICIATION
TREATMENT OF AURIFEROUS SULFIDE ORE FROM THE ENTERPRISE GOLD MINE PINE CREEK, N.T. 67-01 M03-57236
MILLING A GOLD-BEARING PYRRHOTITE ORE AT DELNITE MINES 67-07 M02-73822
AUTOMATIC SORTING OF ORES FROM GOLD-BEARING DEPOSITS 67-08 M02-74891
GOLD, BINARY SYSTEMS
CALCULATING SOLIDUS CURVES OF GERMANIUM SOLID SOLUTIONS IN GE-CU, GE-AG AND GE-AU SYSTEMS 67-02 M13-61727
A CALORIMETRIC INVESTIGATION OF LIQUID GOLD-TIN ALLOYS 67-02 M15-60647
PROPERTIES OF THE FREE ENERGY ASSOCIATED WITH THE INTERDIFFUSION OF TWO SOLIDS 67-04 M15-66064
DISSOLUTION OF THE PHASES IN THE NICKEL-GOLD SYSTEM DURING ISOTHERMAL ANNEALING 67-05 M14-68588
GOLD SILICON PHASE DIAGRAM 67-08 M13-76083
STUDIES OF THE BINARY SYSTEMS PLUTONIUM-GOLD PLUTONIUM-GALLIUM AND PLUTONIUM-INDIUM 67-09 M14-76321
ELECTROLYTIC DISSOLUTION OF BINARY ALLOYS CONTAINING A NOBLE METAL 67-09 M14-77892
PRODUCTION OF NEW PHASES BY ULTRARAPID QUENCHING OF LIQUID ALLOYS 67-11 M10-80246
THE CONSTITUTION OF ALLOYS OF GOLD AND MERCURY 67-11 M14-80305
SOME ENERGY MEASUREMENTS RELATED TO STRUCTURE OF METALLIC LIQUIDS 67-11 M16-81570
DETERMINATION OF THE THERMODYNAMIC PROPERTIES AND THE EQUILIBRIUM PHASE DIAGRAM OF THE AU-AL SYSTEM 67-12 M13-83199
GOLD, CHEMICAL ANALYSIS
THE PRINCIPLES AND METHODS OF CORRECTION ON QUANTITATIVE ELECTRON PROBE MICROANALYSIS 67-01 M19-58557
SPECTROGRAPHIC DETERMINATION OF TRACE IMPURITIES IN GOLD 67-02 M19-58921
SPECTROPHOTOMETRIC DETERMINATION OF GOLD IN TITANIUM ALLOYS, USING THE COLOR-REACTION OF M-SN-CL SYSTEM 67-02 M19-59720
SPECTROPHOTOMETRIC DETERMINATION OF GOLD IN TITANIUM ALLOYS 67-02 M19-60273
METHODS OF DETERMINING GOLD AND SILVER IN RICH PRODUCTS 67-05 M19-68409
THE SPECTROCHEMICAL DETERMINATION OF GOLD IN COPPER CONCENTRATES 67-06 M19-70343
NOTE ON THE DETERMINATION OF GOLD IN BARREN CYANIDE SOLUTIONS BY ATOMIC ABSORPTION SPECTROSCOPY 67-06 M19-71889
A COMPARISON OF METHODS FOR DETERMINING GOLD IN ORES 67-09 M19-77027
GOLD, COATING
INFLUENCE OF CATHODE HYDROGEN ON STRUCTURE AND PROPERTIES OF GOLD GALVANIC COATINGS 67-04 M12-67290
DISCUSSION OF THE EFFECTS OF METALLIC COATINGS ON THE TORSIONAL RECOVERY OF WIRES 67-04 M17-66543
GOLD, COATINGS
PRECIOUS METAL PLATING BATHS AND THEIR PRACTICAL APPLICATIONS 67-01 M12-58303
ELECTRODEPOSITION OF GOLD 67-02 M12-58907
LIQUID BRIGHT GOLD COATINGS AND GOLD LEAF 67-02 M12-58910
DEFINITION OF ELECTROLYTES AND ELECTRODEPOSITS 67-02 M12-62288
DEPOSITION OF THIN FILMS UNDER THE INFLUENCE OF FAST ION IRRADIATION 67-04 M12-67057
SOLDERING PALLADIUM PLATED ELECTRONIC COMPONENTS. AN INVESTIGATION OF THE RELIABILITY OF JOINTS 67-07 M11-72879
RESISTIVITY MEASUREMENTS OF VACUUM-RESIDUAL GASES DURING VACUUM DEPOSITION OF AU AND NI 67-08 M12-75181
AGGREGATION OF AG AND AU THIN FILMS THAT ARE DEPOSITED ON CARBON FOILS AT ELEVATED TEMPERATURES AND IN ULTRAHIGH VACUUM 67-08 M14-75164
ELECTROLYTIC GOLD DEPOSITS 67-10 M12-79702
CURRENT RESEARCH IN THE PRECIOUS METAL PLATING OF ELECTRIC CONTACTS 67-10 M12-79937
ADHERENCE AND POROSITY IN ION PLATED GOLD 67-12 M12-82456
ADHESION OF SPUTTERED GOLD FILMS ON GLASS 67-12 M12-83548
GOLD, CORROSION
GALVANIC EFFECTS IN VACUUM DEPOSITED THIN FILMS 67-02 M18-59454
GOLD, CRYSTAL DEFECTS
THE ENERGY OF DISSOCIATED TRIANGULAR FRANK DISLOCATION LOOPS IN F. C. C. METALS 67-05 M13-68754
GOLD, CRYSTAL GROWTH
INTERRUPTED VAPOUR DEPOSITION OF EPITAXIAL GOLD FILMS GROWN INSIDE AN ELECTRON MICROSCOPE 67-01 M14-57565
THE FORMATION OF SINGLE CRYSTAL FILMS OF FCC METALS ON ALKALI HALIDE CLEAVAGE PLANES IN ULTRAHIGH VACUUM 67-03 M14-65381
GROWTH OF THIN GOLD FILMS ON ROCKSALT FROM 80 K. TO 475 K 67-05 M14-69214
LOW-ENERGY ELECTRON DIFFRACTION STUDIES OF EPITAXIAL GROWTH OF SILVER AND GOLD IN ULTRA-HIGH VACUUM 67-05 M14-69426
A THEORY OF ORIENTATION EFFECTS IN NUCLEATION ON A CRYSTALLINE SUBSTRATE 67-06 M14-70897
EXPERIMENTAL EVIDENCE FOR PSEUDOMORPHIC GROWTH OF PLATINUM ON GOLD 67-06 M14-72220
GROWTH OF THE CLOSE-PACKED --111-- PLANE OF GOLD SINGLE CRYSTALS 67-07 M14-72641
EVIDENCE FOR THE PROPAGATION OF CRYSTAL DEFECTS FROM THE SUBSTRATE INTO AN EPITAXIAL OVERGROWTH 67-10 M14-78752
EPITAXIAL GROWTH OF GOLD AND SILVER ON MAGNESIUM OXIDE CLEAVED IN ULTRAHIGH VACUUM 67-10 M14-79405
NUCLEATION OF CRYSTALS IN MULTILAYER METALLIC ADSORBATES 67-10 M14-79409
GOLD, CRYSTAL LATTICES
CONTRIBUTION TO THE STUDY OF VACANCIES IN GOLD 67-01 M13-57171
ELECTRON DIFFRACTION CONTRAST OF SMALL STACKING FAULT TETRAHEDRA WITH APPLICATIONS TO QUENCHED GOLD 67-01 M13-57574

REGARDING THE EFFECT OF SPECIMEN SHAPE ON THE SELECTION OF THE PRIMARY SLIP PLANE 67-02 M13-61824
THE INTERPRETATION OF RECOVERY STAGES IN IRRADIATED METALS 67-02 M14-61520
STACKING FAULT ENERGY OF FACE CENTERED CUBIC METALS ESTIMATED BY ELECTRON MICROSCOPIC ANALYSIS OF DIFFRACTION CONTRAST OF FAULTED DIPOLES 67-03 M13-65216
MEASUREMENTS OF THE ANISOTROPY OF THE DISLOCATION RESISTIVITY IN AU, AG, AND CU 67-03 M13-65217
RADIATION-INDUCED POINT DEFECT CLUSTERS IN COPPER AND GOLD. PT. 1. CLUSTERS PRODUCED IN ENERGETIC DISPLACEMENT CASCADES 67-03 M13-65375
STACKING FAULT DIPOLES IN FACE-CENTERED CUBIC METAL 67-03 M13-65376
THE EXPERIMENTAL STUDY OF POINT DEFECTS IN PURE METALS 67-04 M13-67310
ELECTRON MICROSCOPIC OBSERVATION OF CROSSED LATTICES IN GOLD CRYSTAL FILMS 67-04 M13-68122
ENERGIES OF STACKING FAULTS AND TWINS FOR NORMAL METALS 67-05 M13-69460
ORIENTATION CHANGES OF SINGLE CRYSTALS OF FACE CENTERED CUBIC METALS ON WIRE DRAWING. PT. 3. DISCUSSION OF THE RESULTS 67-05 M14-69849
DISLOCATIONS AND STAGE 1 PLASTIC DEFORMATION OF GOLD SINGLE CRYSTALS 67-06 M13-71088
SOME ELECTRON DIFFRACTION CONTRAST EFFECTS AT PLANAR DEFECTS IN CRYSTALS 67-06 M13-71280
FAULTED DEFECTS AND STACKING-FAULT ENERGY 67-06 M13-71534
A LOW ENERGY ELECTRON DIFFRACTION STUDY OF THE --100--, --110-- AND --111-- SURFACE OF GOLD 67-07 M13-73917
LOW-ENERGY ELECTRON DIFFRACTION STUDY OF THE --100-- FACE OF SILVER, GOLD, AND PALLADIUM 67-08 M13-75369
THE STUDY OF POINT DEFECTS IN METALS AT THE MAX-PLANCK-INSTITUT FUR METALLFORSCHUNG AND THE TECHNISCHE HOCHSCHULE STUTTGART 67-09 M13-76637
VOIDS IN QUENCHED COPPER, SILVER AND GOLD 67-09 M13-77593
VACANCY CONCENTRATION AND PRECIPITATION IN QUENCHED PURE GOLD AND GOLD-SILVER ALLOYS 67-09 M14-77451
EFFECTS OF IMPURITIES ON THE STRUCTURE OF EPITAXIAL GOLD FILMS 67-09 M14-77461
INTERSTITIAL DEFECT CLUSTERS IN GOLD AFTER BOMBARDMENT WITH 270EV GOLD IONS 67-09 M14-77519
MOBILITY OF INTERSTITIAL DEFECTS IN GOLD BOMBARDED WITH 270 EV GOLD IONS IN STAGE 111 67-09 M14-77520
MULTIPLE TWINNED PARTICLES AT EARLIER STAGES OF GOLD FILM FORMATION ON ALKALIHALIDE CRYSTALS 67-10 M13-78716
EFFECT OF TEMPERATURE ON THE PENETRATION OF HEAVY KEV IONS IN MONOCRYSTALLINE SOLID. PT. 1. XE133 IONS IN GOLD 67-11 M16-80322
EFFECT OF TEMPERATURE ON THE PENETRATION OF HEAVY KEV IONS IN MONOCRYSTALLINE SOLIDS. PT. 2. VARIOUS IONS IN GOLD, ALUMINUM, AND TUNGSTEN 67-11 M16-80323
BINDING ENERGIES AND ENTROPIES OF MULTIPLE VACANCIES IN FCC METALS 67-11 M16-81121

GOLD, DIFFUSION
SURFACE AND GRAIN-BOUNDARY DIFFUSION OF GOLD-COPPER 67-01 M14-57104
INTER-GRANULAR ELECTRON TRANSPORT OF SILVER IN GOLD 67-01 M14-57366
SURFACE SELF-DIFFUSION OF GOLD. PT. 1. ANALYSIS OF THE SCRATCH-FLATTENING PROCESS 67-01 M14-57409
EFFECT OF A DC FIELD ON THE LATTICE DIFFUSION OF SILVER-110 IN COPPER AND GOLD 67-01 M14-57575
INTERSTITIAL DIFFUSION OF GOLD AND SILVER IN INDIUM 67-02 M14-60765
CALCULATION OF DIFFUSION PARAMETERS 67-02 M14-61918
DIFFUSION OF SILVER IN POLYCRYSTALLINE GOLD 67-02 M14-61925
ON THE MECHANISM OF LATTICE ELECTROMIGRATION IN METALS 67-03 M14-65227
INTERSTITIAL SOLUTIONS OF NOBLE METALS IN METALS AND SEMICONDUCTORS 67-04 M14-67540
DIFFUSION OF COPPER IN GOLD 67-05 M15-69338
MEASUREMENT OF DIFFUSION OF GOLD IN COPPER BY ELASTIC SCATTERING OF DEUTERON 67-11 M14-80194
EFFECT OF DIFFUSED OXYGEN AND GOLD ON SURFACE PROPERTIES OF OXIDIZED SILICON 67-11 M15-80507
MEASUREMENT OF DIFFUSION OF GOLD IN COPPER BY ELASTIC SCATTERING OF DEUTERON 67-12 M14-82357
DEFECT INTERACTION IN THE DIFFUSION ZONE OF SHORT GOLD-SILVER COUPLES 67-12 M14-82722
SURFACE SELF-DIFFUSION OF GOLD. PT. 2. REAL AND APPARENT ANISOTROPY OF THE SURFACE SELF-DIFFUSION COEFFICIENT 67-12 M14-82852

GOLD, ELECTRIC DEVICES
GOLD IN ELECTRON TUBES AND TRANSISTORS 67-02 M20-56919

GOLD, ELECTRICAL PROPERTIES
GOLD CONDUCTORS, RESISTORS, AND THERMO-COUPLES 67-02 M15-58920
GOLD ELECTRICAL CONTACTS 67-02 M20-58918
TEMPERATURE VARIATION OF THE RESISTIVITY OF THIN GOLD FILMS 67-05 M13-69038
RESISTIVITY CHANGES IN AIR-QUENCHED GOLD WIRES 67-06 M14-70998
CALCULATION OF THE ELECTRICAL RESISTIVITY AND THE THERMOELECTRIC POWER OF VACANCIES IN COPPER AND GOLD 67-06 M15-70715
CALCULATION OF EFFECTIVE FORCES ON AN IMPURITY OF A METAL SUBJECTED TO A TEMPERATURE GRADIENT 67-07 M15-73632
RECOVERY OF THE ELECTRICAL RESISTIVITY OF PURE METALS AFTER SHORT IRRADIATION WITH NEUTRONS INSIDE A REACTOR 67-08 M15-75644
ANISOTROPY OF RELAXATION TIMES AND PHONON DRAG IN THE NOBLE METALS 67-09 M15-77158
RADIATION DAMAGE IN THIN METAL FILMS AT 4.2 K 67-10 M15-79406
LOW TEMPERATURE RECOVERY IN COLD WORKED FCC METALS 67-11 M15-80776
RECOVERY OF THERMOELECTRIC POWER AND ELECTRICAL RESISTIVITY OF GOLD, FOLLOWING SMALL PLASTIC DEFORMATION AT-195 C 67-11 M15-81591

GOLD, EXTRACTION
STUDY OF SEPARATE CYANIDATION OF ARGILLACEOUS AURIFEROUS ORES 67-01 M03-58194
TECHNOLOGY OF GOLD RECOVERY FROM CARBONACEOUS GOLD-ARSENIC CONCENTRATES 67-01 M03-58195
EXTRACTION OF NOBLE METALS FROM ANTIMONY CONCENTRATES 67-02 M03-59586
PROBLEMS OF BENEFICIATION OF CARBONACEOUS AURIFEROUS ORES 67-02 M03-59598
METHOD OF RECOVERING METALS OF THE PLATINUM AND GOLD GROUPS 67-02 M03-59599
AURIFEROUS ORES OF THE EASTERN SAYAN DEPOSITS AND THEIR REPROCESSING 67-02 M03-59600
RATIONAL METHODS OF TREATING GOLD CONTAINING CONCENTRATES AND FLUXED ORES 67-02 M03-60559
BEHAVIOR OF GOLD DURING THE GRINDING PROCESS 67-02 M03-61601
AN AQUEOUS CHLORINATION PROCESS FOR THE TREATMENT OF MERRILL SLIMES AND GRAVITY CONCENTRATES FROM GOLD ORES. PT. 1. A STUDY OF THE CHEMISTRY OF THE PROCESS AND A REPORT OF LABORATORY TEST WORK 67-04 M03-67757
EXTRACTING NOBLE METALS FROM CYANIDE SOLUTIONS WITH QUATERNARY AMMONIUM COMPOUNDS 67-05 M03-68224
USING ACTIVATED CARBON IN THE FILTERLESS TREATMENT OF GOLD-BEARING ORES 67-05 M03-68964
CEMENTATION OF NOBLE METALS FROM CYANIDE SOLUTIONS 67-06 M03-69974
EFFICIENT SYSTEM FOR THE TREATMENT OF AURIFEROUS JIG CONCENTRATES 67-06 M03-70941
INVESTIGATION OF KINETICS OF JOINT PRECIPITATION OF AU, AG AND CU FROM CYANIDE SOLUTIONS 67-06 M03-71301
USE OF ION EXCHANGERS DURING TREATMENT OF AURIFEROUS ORES FROM THE KURANAKH DEPOSITS 67-07 M03-73409
USE OF A COMMERCIAL MIXTURE OF A MINES FOR EXTRACTION OF GOLD AND SILVER FROM CYANIDE SOLUTIONS 67-08 M03-75201
A PROPOSED USE FOR ION EXCHANGE IN GOLD CYANIDATION 67-08 M03-75328
THE OXIDATION CONDITIONS OF GOLD CONTAINING ARSENICAL PYRITES 67-09 M02-76948
DISTRIBUTION OF GOLD AND SILVER IN LEAD

SMELTING PRODUCTS 67-09 M03-77111
POSSIBILITIES OF INCREASING GOLD AND SILVER EXTRACTION IN THE BENEFICIATION OF OXIDIZED LEAD ORES FROM THE FIFTH LODE OF THE MADZHAROVO DEPOSIT 67-11 M02-81616
SOME FACTORS INFLUENCING THE RATE OF DISSOLUTION OF GOLD IN SODIUM CYANIDE SOLUTIONS 67-11 M03-80671
FLUIDIZED BED ROASTING OF GOLD-ARSENIC CONCENTRATES WITH THE PURPOSE OF DEARSENIZATION 67-11 M03-80752
NOBLE METAL RECOVERY FROM BALANCED LEAD ORES OF THE MADZHAROVO DEPOSIT 67-11 M03-81614
INVESTIGATION OF THE CONCENTRATING CAPACITY OF GOLD-BEARING ORE FROM THE DOLNA KAMENITSA DEPOSITS 67-12 M02-83448
SEMI-INDUSTRIAL TESTING OF THE SORPTION EXTRACTION OF GOLD FROM THE WASTE CYANIDE WATERS 67-12 M03-83018

GOLD, HEAT TREATMENT
AUTOMATIC REAGENT CONTROL IN THE BRALORNE CYANIDATION CIRCUIT 67-09 M10-77026

GOLD, IMPURITIES
GOLD-INDUCED DISLOCATION LOOPS IN SILICON CRYSTALS 67-03 M13-65156

GOLD, INTERMETALLICS
THERMOELECTRIC POWER AND ELECTRICAL RESISTIVITY OF CU3AU DOPED WITH 3D TRANSITION METALS 67-01 M15-57476
MONTE CARLO STUDIES OF VACANCY MIGRATION IN BINARY ORDERED ALLOYS 67-02 M14-60595
MAGNETOELASTIC PROPERTIES OF THE ANTIFERROMAGNETIC COMPOUND MNAU2 67-02 M15-61923
ORDERED ALLOYS OF THE GOLD-PALLADIUM SYSTEM. PT. 2. ELECTRON DIFFRACTION STUDY ON EVAPORATED AUPD3 FILMS 67-04 M14-67477
ON SOME PARTICULARITIES OF THE CHANGE IN THE ELECTRICAL RESISTIVITY OF COPPER-GOLD ALLOYS NEAR THE CUAU COMPOSITION 67-04 M15-67050
DISLOCATION IN THE DIRECTION --110-- AND HARDENING OF ALLOY WITH LI2 STRUCTURE 67-05 M13-69470
THE ORDER-DISORDER TRANSFORMATION IN CU3AU AT HIGH PRESSURE 67-05 M14-69210
EXPERIMENTAL STUDIES ON DYNAMIC MULTIPLE REFLECTIONS OBSERVED IN THIN FILMS OF METALS AND ALLOYS BY ELECTRON DIFFRACTION 67-08 M13-74414
STUDY OF LONG PERIOD ORDERED ALLOYS BY X-RAY DIFFRACTION 67-08 M13-74415
LOCAL ORDER IN SOLID ALLOYS. PT. 1 67-08 M13-75338
LONG-RANGE ORDER IN SOLID ALLOYS. PT. 2 67-08 M14-75339
ELECTRICAL RESISTIVITY OF SMAG, SMCU AND SMAU 67-09 M15-77455
HEATS OF FORMATION OF AU3ZN AND AUZN 67-09 M15-77730
X-RAY STUDY OF PROTON-INDUCED DISORDER IN CU3AU 67-10 M14-79159
OPTICAL PROPERTIES OF THE INTERMETALLIC COMPOUNDS AUAL2, AUGA2 AND AUIN2 67-10 M15-78907
APPLICATION OF A THEORY OF PHASE FLUCTUATIONS INSPIRED BY THE BARTENEV THEORY TO THE CRITICAL TRANSFORMATION AUCU3 1 TO AUCU3 ALPHA 67-11 M14-81564
THE ELECTRICAL RESISTIVITY OF AU4V 67-11 M15-80185
ELECTRON ENERGY LEVELS IN CU3AU 67-11 M16-81483

GOLD, IRRADIATION
SPUTTERING OF A GOLD HEMISPHERICAL SINGLE CRYSTAL 67-07 M16-73141

GOLD, LUBRICANTS
IMPROVING FRICTIONAL BEHAVIOR WITH SOLID FILM LUBRICANTS 67-03 M05-65432
THE LUBRICATION OF STEEL BY ELECTROPLATED GOLD 67-10 M17-78550

GOLD, MAGNETIC PROPERTIES
FERROMAGNETISM IN AU4V 67-08 M15-74565

GOLD, MECHANICAL PROPERTIES
DEFORMATION CAUSED BY STYLUS TRACKING ON THIN GOLD FILM 67-01 M17-57557
GOLD IN DENTISTRY 67-02 M17-58911
MODULUS EFFECTS IN METALS AFTER LOW TEMPERATURE ELECTRON IRRADIATION. PT. 2. AU 67-02 M17-60628
THE HIGH TEMPERATURE FLOW STRESS OF SINGLE CRYSTALS OF COPPER, SILVER AND GOLD. PT. 1 67-05 M17-68292
WEAR AND FRICTION OF THE PLATINUM METALS. PERFORMANCE IN SLIDING CONTACTS 67-05 M17-69282
THERMAL FATIGUE IN METALS WITH CLOSE-PACKED CUBIC LATTICES 67-10 M17-79738
ULTRASONIC WORK HARDENING OF FACE CENTERED CUBIC METALS AND ALLOYS 67-11 M17-80379
EVIDENCE FOR THE PROPAGATION OF CRYSTAL DEFECTS FROM THE SUBSTRATE INTO AN EPITAXIAL OVERGROWTH 67-12 M17-83121

GOLD, METAL FOILS
ACTIVATION OF GOLD SPHERES AND FOILS IN NONISOTROPIC NEUTRON INCIDENCE 67-01 M16-58587
TEMPERATURE DEPENDENCE OF DYNAMICAL ELECTRON DIFFRACTION INTENSITIES OF POLYCRYSTALLINE FOILS 67-02 M13-61825

GOLD, METAL WORKING
SOME CURRENT DEVELOPMENTS IN ELECTROFORMING 67-07 M12-73372

GOLD, METALLOGRAPHY
METALLURGICAL LABORATORY PROCEDURES 67-02 M13-58922

GOLD, MICROSTRUCTURE
GRAIN-BOUNDARY SLIDING IN METALS 67-02 M13-61780
OBSERVATION OF GOLD FILMS ON THINNED ROCKSALT 67-05 M13-69222
GRAIN BOUNDARY DISPLACEMENT IN A METAL UNDER THE EFFECT OF AN ELECTRIC FIELD 67-11 M14-80247

GOLD, OPTICAL PROPERTIES
GOLD FILMS AND GOLD FILM LIGHT FILTERS 67-02 M12-58909
TEMPERATURE-MODULATED REFLECTANCE OF GOLD FROM 2 TO 10 EV 67-05 M15-69592
EMISSION FROM NONRELATIVISTIC ELECTRONS IN THIN METAL FOILS 67-11 M15-80785

GOLD, PHASES /STATE OF MATTER/
RESEARCH ON NOBLE METAL ALLOYS CONTAINING HIGHER ELECTROPOSITIVE ELEMENTS. PT. 10. HEAT OF FORMATION OF AL-AU ALLOYS 67-05 M09-69352

GOLD, PHYSICAL PROPERTIES
CONDENSATION COEFFICIENTS OF GOLD ON NACL SINGLE CRYSTALS 67-01 M15-57445
PHYSICAL PROPERTIES OF GOLD 67-02 M15-58904
THE RADIATION MEASUREMENTS OF THE FREEZING POINT OF GOLD 67-02 M15-60919
THE WORK FUNCTION OF GOLD 67-02 M15-61574
ATOMIC AND NUCLEAR PROPERTIES OF GOLD 67-02 M16-58905
PRECIOUS METALS--GLAMOUR PUTS ON A HARD HAT 67-06 M01-70485
THE VISCOSITIES OF LIQUID URANIUM, GOLD AND LEAD 67-09 M15-77467
MELTING CURVES OF COPPER, SILVER, GOLD, AND PLATINUM TO 70 KBAR 67-12 M15-82527

GOLD, QUENCHING /COOLING/
ON QUENCHING EXPERIMENTS IN GOLD 67-10 M10-79028

GOLD, RADIATION EFFECTS
RADIATION ANNEALING IN DEUTERON-IRRADIATED GOLD, ALUMINUM, AND PLATINUM 67-05 M16-69803
RECOVERY OF DEUTERON-IRRADIATED GOLD, ALUMINIUM, AND PLATINUM 67-05 M16-69804

GOLD, REACTIONS /CHEMICAL/
DISSOLUTION OF METALS BY AC ELECTROLYSIS 67-01 M14-58583
GOLD IN GLASS 67-02 M14-58917

GOLD, RECOVERING
FLOTATION OF GOLD FROM PURE QUARTZ ORES 67-07 M02-72777

GOLD, SCATTERING
SCATTERING OF ELECTRONS IN THIN COPPER AND GOLD FILMS 67-06 M16-70526

GOLD, SINGLE CRYSTALS
DISLOCATION ARRANGEMENT AND STRENGTHENING IN STAGE 2 IN PLASTICALLY DEFORMED GOLD SINGLE CRYSTALS 67-06 M13-71021
SURFACE STRUCTURE OF CLEAN AU --100-- AND AG --100-- SURFACES 67-12 M13-82523
THE NATURE OF THE SOURCE OF DISLOCATION LOOPS GENERATED BY GOLD DIFFUSION INTO SILICON CRYSTALS 67-12 M13-82674
FISSION FRAGMENT DAMAGE TO METALLIC CRYSTALS. PT. 1. SINGLE CRYSTAL GOLD 67-12 M16-82544

GOLD, SOLUBILITY
PRECIPITATION IN ALUMINUM-GOLD 67-11 M13-81589
SOLUBILITY OF HYDROGEN IN SOLID COPPER, SILVER, AND GOLD OBTAINED BY A RAPID QUENCH AND EXTRACTION

TECHNIQUE 67-12 M14-82567

GOLD, SURFACE PROPERTIES
DETERMINATION OF ANISOTROPY AND SURFACE ENERGY OF THE FACE CENTERED CUBIC METALS NICKEL, GOLD AND SILVER 67-02 M15-59908
THE KINETICS OF SESSILE-DROP SPREADING IN REACTING METAL-METAL SYSTEMS 67-03 M15-65080
SURFACE BLISTERING OF METALS DUE TO LOW ENERGY HYDROGEN BOMBARDMENT 67-06 M16-70612

GOLD, TERNARY SYSTEMS
THE WETTING OF PLATINUM AND ITS ALLOYS BY GLASS. PT. 3. MICROSTRUCTURE AND MECHANICAL PROPERTIES OF GOLD-RHODIUM-PLATINUM ALLOYS 67-05 M14-69419
THE AU-PB-SN TERNARY SYSTEM 67-06 M14-70795
THE RECIPROCAL INFLUENCES OF SOME TE IMPURITIES UPON THEIR SEGREGATIONIST BEHAVIOR 67-07 M03-73834
TERNARY CONDENSED PHASE SYSTEMS OF GALLIUM AND ARSENIC WITH GROUP IB ELEMENTS 67-07 M14-73460
AN X-RAY STUDY ON THE STRUCTURE OF THE TERNARY AU-CU-ZN MARTENSITE 67-11 M13-80810
TERNARY DIFFUSION IN COPPER-SILVER-GOLD ALLOYS 67-12 M14-82713

GOLD, THERMAL PROPERTIES
SPECIFIC HEATS OF AU AND AUSN AT LOW TEMPERATURES 67-01 M15-58754
A USEFUL RELATIONSHIP BETWEEN ATOMIC VIBRATION AMPLITUDES AND THERMAL EXPANSION FOR CUBIC SOLIDS 67-02 M15-59099
VIBRATION SPECTRA AND DEBYE TEMPERATURES OF SILVER AND GOLD 67-02 M15-59474
DISSOLUTION CALORIMETER IN TIN AND APPLICATION TO THE STUDY OF CERTAIN ORDER-DISORDER TRANSFORMATIONS 67-04 M14-66047
DEBYE-WALLER FACTORS OF COPPER AND GOLD 67-05 M15-69673
ANHARMONICITY IN NOBLE METALS--SOME THERMAL PROPERTIES 67-05 M15-69812

GOLD, THERMODYNAMICS
DEPARTURES FROM LINEARITY IN ARRHENIUS PLOTS OF VACANCY CONCENTRATION 67-07 M15-73912

GOLD, THIN FILMS
ELECTRODEPQSITION OF METALS IN ULTRASONIC FIELDS 67-04 M12-66279
X-RAY FLUORESCENCE ANALYSIS FOR THE ABSOLUTE DETERMINATION OF THE THICKNESS OF THIN FILMS OF ELEMENTS 67-04 M19-67059
RELATION OF DEGREE OF VACUUM DURING EVAPORATION TO THE CLEANLINESS OF THE METAL-SEMICONDUCTOR CONTACT 67-05 M16-68568
THE STRUCTURE AND ORIENTATION OF CRYSTALS IN DEPOSITS OF METALS ON MICA 67-08 M14-75368
THICKNESS EFFECTS OF ELECTRON SCATTERING AT AU-FILM SURFACES 67-10 M15-79156
INFLUENCE OF A SUPERIMPOSED FILM ON THE ELECTRICAL CONDUCTIVITY OF THIN METAL FILMS 67-11 M15-81087
ORIENTATION DEPENDENCE OF STRESS-STRAIN CURVES IN VACUUM DEPOSITED SINGLE CRYSTAL GOLD FILMS 67-11 M17-81272
EPITAXIAL GROWTH OF GOLD ON CADMIUM IODIDE 67-12 M14-82009
A STUDY OF THE ENERGY DISTRIBUTION AND NUCLEATION OF EVAPORATED GOLD USING A VELOCITY SELECTOR 67-12 M14-82136
EFFECT OF ULTRASONIC VIBRATIONS OF THE SUBSTRATE ON THE GROWTH OF THIN METAL FILMS 67-12 M14-83015
HALL EFFECT IN THIN METAL FILMS 67-12 M15-82369
OPTICAL EFFECTS IN METALS APPLICATION OF A LEAST-SQUARES METHOD TO MEASUREMENTS ON GOLD AND SILVER 67-12 M15-82374

GOLD, TRANSPORT PROPERTIES
EFFECT OF ELECTRICAL FIELD ON INTERCRYSTALLINE DIFFUSION IN GROUP 1 NOBLE METALS 67-12 M14-82331

GOLD, WELDING
ULTRASONIC WELDING OF ALUMINUM CONDUCTORS TO SPUTTERED GOLD FOILS 67-09 M11-78124
TEMPERATURE DISTRIBUTION DURING PRESSURE WELDING WITH INDIRECT PULSE HEATING 67-12 M19-82628

GOLD, X RAY ANALYSIS
SPECIMEN CONTAMINATION IN ELECTRON-PROBE MICROANALYSIS AND ITS PREVENTION USING A COLD TRAP 67-04 M13-66246
THE X-RAY INVESTIGATION OF GOLD DEPOSITS 67-08 M19-75670
COMPARISON OF ABSORPTION COEFFICIENTS OBTAINED BY DIFFERENT METHODS IN THE ULTRASOFT X-RAY REGION OF THE SPECTRUM 67-10 M16-79456

GOLD BASE ALLOYS
GOLD--RECOVERY, PROPERTIES, AND APPLICATIONS 67-02 M01-58903

GOLD BASE ALLOYS, ABSORPTION /MATERIAL/
COMPARISON OF HYDROGEN AND DEUTERIUM SOLUBILITY IN PALLADIUM-RICH ALLOYS. GOLD-PALLADIUM 67-08 M14-75385

GOLD BASE ALLOYS, ATOMIC PROPERTIES
OBSERVATION OF CRYSTAL FIELDS BY MEANS OF THE MOSSBAUER EFFECT 67-10 M16-78305

GOLD BASE ALLOYS, CASTING
STUDIES ON A NEW DENTAL CASTING GOLD ALLOY 67-12 M20-82278

GOLD BASE ALLOYS, CHEMICAL ANALYSIS
THE PRINCIPLES AND METHODS OF CORRECTION ON QUANTITATIVE ELECTRON PROBE MICROANALYSIS 67-01 M19-58557
ANALYSIS OF GOLD ALLOY PLATING SOLUTIONS 67-05 M12-68807

GOLD BASE ALLOYS, COATINGS
ELECTRODEPOSITION OF GOLD 67-02 M12-58907
APPLICATIONS OF METAL FINISHING IN PRINTED CIRCUITS. PT. 2 67-10 M12-79003
THE ELECTRODEPOSITION OF AU AND AU ALLOYS 67-10 M12-79076
PRODUCTION METHODS FOR DETERMINING GOLD PLATE THICKNESS 67-12 M19-81749

GOLD BASE ALLOYS, CORROSION
CORROSION RESISTANCE OF GOLD 67-02 M18-58908

GOLD BASE ALLOYS, CRYSTAL GROWTH
METASTABLE EVAPORATED THIN FILMS OF CU-AG AND CO-AU ALLOYS. PT. 1. OCCURRENCE AND MORPHOLOGY OF PHASES 67-06 M14-70407

GOLD BASE ALLOYS, CRYSTAL LATTICES
SHORT-RANGE ORDER IN A GOLD-PALLADIUM ALLOY OF EQUIATOMIC COMPOSITION 67-04 M14-66392
LONG PERIOD STACKING ORDER IN CLOSE PACKED STRUCTURES OF METALS 67-05 M14-68275
SHORT-RANGE ORDER IN A GOLD-PALLADIUM ALLOY OF EQUIATOMIC COMPOSITION 67-05 M14-68589
COMPARISON OF THE ENERGY OF STACKING FAULTS WITH THE ELECTRON STRUCTURE OF THE METAL 67-07 M13-73483
THE RECOVERY KINETICS OF DEFORMED COPPER-PALLADIUM AND GOLD-PALLADIUM ALLOYS 67-07 M14-73909
STUDY OF LONG PERIOD ORDERED ALLOYS BY X-RAY DIFFRACTION 67-08 M13-74415
A NOTE ON THE STRUCTURE AND GROWTH MECHANISM OF SPHEROIDAL GRAPHITE CRYSTALS IN ALLOYS CONTAINING CARBON 67-08 M14-74432
VACANCY CONCENTRATION AND PRECIPITATION IN QUENCHED PURE GOLD AND GOLD-SILVER ALLOYS 67-09 M14-77451
LONG PERIOD STACKING ORDER IN CLOSE PACKED STRUCTURES OF AU-CD ALLOYS 67-10 M13-78719
RESEARCH ON NOBLE METAL ALLOYS CONTAINING MORE ELECTROPOSITIVE ELEMENTS. PT. 12. TYPE-CII PHASES IN RARE EARTH ELEMENT ALLOYS 67-11 M13-80576

GOLD BASE ALLOYS, DIFFUSION
DIFFUSION OF THE SOLVENT AND THE SOLUTE IN DILUTE ALLOYS OF FACE CENTERED CUBIC METALS 67-05 M14-68287
SELF-DIFFUSION IN NEAR-EQUIATOMIC ORDERED AU-CD ALLOYS 67-05 M14-69819
A RAPID SOLID-ELECTROCHEMICAL METHOD FOR STUDYING HIGH-TEMPERATURE DIFFUSION IN METALS 67-07 M14-73456
EFFECTS OF ORDER-DISORDER PHASE TRANSITION ON INTERDIFFUSION IN GOLD-COPPER ALLOYS 67-09 M14-76952

GOLD BASE ALLOYS, ELECTRIC CONTACTS
A GOLD-BASE ALLOY 67-12 M20-83386

GOLD BASE ALLOYS, ELECTRICAL PROPERTIES
THERMOELECTRIC POWER OF ANNEALED AND QUENCHED GOLD-PLATINUM ALLOYS AT LOW TEMPERATURES 67-01 M15-58634
GOLD CONDUCTORS, RESISTORS, AND THERMO-COUPLES 67-02 M15-58920
GOLD ELECTRICAL CONTACTS 67-02 M20-58918
PROPERTIES OF GOLD-CHROMIUM ALLOY PRESSURE GAUGES 67-06 M20-70553
VARIATION OF THE LOW-TEMPERATURE RESISTIVITY IN DILUTE MAGNETIC ALLOYS 67-07 M15-73524
THE EFFECT OF PLASTIC DEFORMATION ON THE

GOLD BASE ALLOYS

RESISTIVITY AND HALL EFFECT OF COPPER-PALLADIUM AND GOLD-PALLADIUM ALLOYS 67-07 M15-73907
AN APPROXIMATE DENSITY OF STATES CURVE AND ITS RELATION TO THE MEASURED ELECTRICAL RESISTIVITY OF GOLD-PALLADIUM ALLOYS 67-07 M16-73908
ABSENCE OF GIANT THERMOELECTRIC POWER IN DILUTE AU-V ALLOYS 67-08 M15-75056
ON THE PECULIAR TEMPERATURE VARIATION OF ELECTRICAL RESISTIVITY OF DILUTE AU-V ALLOYS 67-08 M15-75057
THE ELECTRICAL RESISTIVITY OF GOLD-SILVER ALLOYS 67-11 M15-80307

GOLD BASE ALLOYS, HEAT TREATMENT
THE SOLUBILITY OF AU IN AL AND THE PRECIPITATION HARDENING OF AL-AU ALLOYS 67-07 M10-73848

GOLD BASE ALLOYS, LUBRICANTS
LUBRICATION WITH ELECTRODEPOSITED FILMS OF SILVER-RHENIUM AND GOLD-MOLYBDENUM 67-10 M17-78587

GOLD BASE ALLOYS, MAGNETIC PROPERTIES
THE EFFECT OF PRESSURE ON THE CURIE TEMPERATURE AND RESISTIVITY OF SOME RARE-EARTH METALS AND HEUSLER ALLOYS 67-06 M15-71282
CHANGE OF MAGNETIC PROPERTIES OF DILUTE GOLD-CHROMIUM ALLOYS BY SUBSTITUTIONS OF TIN, ALUMINUM, AND COPPER FOR GOLD 67-07 M15-73560
ON THE CHANGE OF ELECTRICAL PROPERTIES CAUSED BY SHORT RANGE ORDER IN THE ALPHA-SOLID SOLUTIONS WITH GOLD-SILVER- OR COPPER-BASE ALLOYS CONTAINING MANGANESE 67-07 M15-73852
FERROMAGNETISM IN AU4V 67-08 M15-74565
QUENCHING OF MAGNETIC MOMENT AT LOW TEMPERATURES IN DILUTE AU-V ALLOYS 67-08 M15-76174
HYPERFINE FIELDS AT SN119 IN DILUTE ALLOYS 67-08 M16-75828
ANOMALIES DUE TO S-D INTERACTION AT VERY LOW TEMPERATURES IN DILUTE AU-V ALLOYS 67-09 M15-77972
EFFECTIVE FIELDS IN DILUTE ALLOYS OF MN IN CU AND AU 67-11 M15-80188
MAGNETIC SUSCEPTIBILITY OF VERY DILUTE CU-FE AND AU-FE ALLOYS IN THE RANGE 6 TO 300 K 67-11 M15-81668

GOLD BASE ALLOYS, MECHANICAL PROPERTIES
PHYSICAL METALLURGY OF DENTAL GOLDS 67-02 M01-58912
GOLD IN DENTISTRY 67-02 M17-58911
EMBRITTLEMENT OF ABTYPE ORDERING ALLOYS WITH AN FCC LATTICE 67-02 M17-61933
INFLUENCE OF CONDUCTION ELECTRONS ON THE LATTICE SPECIFIC HEAT AND ELASTIC MODULI OF ALPHA-PHASE ALLOYS OF THE NOBLE METALS 67-07 M16-73940
THE STRENGTH OF CU-AU SOLID SOLUTIONS WITH DIFFERENT CONCENTRATION DISTRIBUTIONS 67-07 M17-72518
TEMPERATURE AND RATE DEPENDENCE OF STRAIN RESISTANCE OF NI-AU ALLOYS 67-08 M17-75880
DEFORMATION AND FRACTURE OF GOLD-PLATINUM POLYCRYSTALS STRENGTHENED BY SPINOIDAL DECOMPOSITION 67-11 M17-81263
COMPOSITION AND PRESSURE DEPENDENCE OF THE ELASTIC CONSTANTS OF GOLD-NICKEL ALLOYS 67-11 M17-81389
CREEP AND SAG PROPERTIES OF A PORCELAIN-GOLD ALLOY 67-12 M20-82358

GOLD BASE ALLOYS, MELTING
MELTING AND WORKING GOLD ALLOYS 67-02 M06-58915

GOLD BASE ALLOYS, METAL WORKING
MELTING AND WORKING DENTAL GOLD ALLOYS 67-02 M06-58913

GOLD BASE ALLOYS, METALLOGRAPHY
METALLURGICAL LABORATORY PROCEDURES 67-02 M13-58922

GOLD BASE ALLOYS, OPTICAL PROPERTIES
OPTICAL PROPERTIES OF THE BETA- PHASE ALLOYS, AUZN, CUZN AND PDIN 67-11 M15-80324

GOLD BASE ALLOYS, ORDER DISORDER
ON THE KINETICS OF SHORT-RANGE ORDERING IN AUAG --50, 50-- AND CUAL --85, 15-- 67-05 M14-69776

GOLD BASE ALLOYS, PHASE TRANSFORMATIONS
GOLD ALLOY SYSTEMS 67-02 M14-58906
X-RAY MEASUREMENT OF ORDER IN CUAU2 67-05 M14-69756
METASTABLE EVAPORATED THIN FILMS OF CU-AG AND CO-AU ALLOYS. PT. 2. KINETICS OF THE TRANSFORMATIONS 67-06 M14-70408

GOLD BASE ALLOYS, PHASES /STATE OF MATTER/
ON AN AMORPHOUS AU-CO ALLOY FILM 67-02 M13-59074
KARAT GOLD ALLOYS FOR JEWELRY 67-02 M14-58914
SHORT-RANGE ORDER IN AU-PD ALLOYS OF EQUIATOMIC COMPOSITION 67-10 M13-79912
METASTABLE PHASES 67-11 M14-81123

GOLD BASE ALLOYS, TEMPERATURE MEASURING INSTRUMENTS
DILUTE GOLD-IRON THERMOELEMENTS IN LOW-TEMPERATURE THERMOCOUPLES 67-01 M15-57632

GOLD BASE ALLOYS, THERMAL PROPERTIES
SPECIFIC HEATS OF AU AND AUSN AT LOW TEMPERATURES 67-01 M15-58754
GOLD BRAZING ALLOYS OR SOLDERS 67-02 M20-58916
LOW TEMPERATURE THERMOELECTRIC POWER OF GOLD-IRON VERSUS SILVER NORMAL THERMOCOUPLES 67-03 M20-65739
NUCLEAR SPECIFIC HEAT OF GOLD-SILVER ALLOYS 67-08 M15-74564
THE ELECTRONIC SPECIFIC HEATS OF ALLOY PHASES BASED ON THE NOBLE METALS 67-11 M15-81115
DETERMINATION OF THE THERMODYNAMIC PROPERTIES AND THE EQUILIBRIUM PHASE DIAGRAM OF THE AU-AL SYSTEM 67-12 M13-83199
THERMAL PROPERTIES OF GOLD-SILICON BINARY ALLOY NEAR THE EUTECTIC COMPOSITION 67-12 M15-82372

GOLD BASE ALLOYS, THERMODYNAMICS
A THERMODYNAMIC STUDY OF SOLID IRON-GOLD AND COBALT-GOLD ALLOYS BY THE USE OF SOLID OXIDE ELECTROLYTES 67-05 M13-68693
EXTENSION TO THE TERNARY ALLOY AU0.050-CU0.45-NI0.05 OF THE AU-CU TYPE. RELATIONS BETWEEN THERMODYNAMIC FUNCTIONS AND DEGREE OF ORDER ALREADY ESTABLISHED BY AUCU3 67-05 M15-68909
THE EFFECT OF SCREENING CHARGE ON THE ELECTRONIC SPECIFIC HEAT OF DILUTE ALLOYS OF THE NOBLE METALS 67-06 M15-71171
CONCENTRATION DEPENDENCES OF ELASTIC CONSTANTS AND DEBYE TEMPERATURES FOR BINARY ALLOYS 67-07 M15-72404
ELECTRONIC SPECIFIC HEATS OF SILVER-GOLD ALLOYS 67-07 M16-74061

GOLD BASE ALLOYS, TRANSPORT PROPERTIES
THERMOELECTRIC POWER OF ANNEALED AND QUENCHED GOLD-PLATINUM ALLOYS 67-10 M16-79418

GOLD BASE ALLOYS, X RAY ANALYSIS
LOCAL ORDER IN LIQUID ALLOYS 67-08 M13-75340

GOLD COMPOUNDS
GOLD--RECOVERY, PROPERTIES, AND APPLICATIONS 67-02 M01-58903

GOLD COMPOUNDS, ATOMIC PROPERTIES
ATOMIC-SIZE CRITERIA IN CERTAIN INTERMEDIATE PHASES OF SILVER AND GOLD 67-11 M16-81114

GOLD COMPOUNDS, BENEFICIATION
INVESTIGATION OF THE CONCENTRATING CAPACITY OF GOLD-BEARING ORE FROM THE DOLNA KAMENITSA DEPOSITS 67-12 M02-83448
BEHAVIOR OF TELLURIUM DURING FLOTATION OF GOLD ORES AND SEPARATION OF TELLURIUM CONCENTRATES FROM GOLD ORES 67-12 M02-83474

GOLD COMPOUNDS, CRYSTAL LATTICES
DISLOCATION MORPHOLOGY IN SHOCK DEFORMED BCC AND FCC METALS AND ALLOYS 67-04 M13-66071

GOLD COMPOUNDS, DIFFUSION
RADIATION-ENHANCED DIFFUSION IN METALS 67-04 M14-67315

GOLD COMPOUNDS, MAGNETIC PROPERTIES
MAGNETIC CHARACTERISTICS OF SOME 1..1 COMPOUNDS OF THE LANTHANIDES WITH GOLD AND ALUMINUM 67-03 M15-65130
ON THE BEHAVIOR OF METALS UNDER INTENSE MAGNETIC FIELD 67-04 M15-67545

GOLD COMPOUNDS, TRANSPORT PROPERTIES
HALL EFFECT MEASUREMENTS ON AU-CS-O 67-03 M16-65753

GOLD PLATING
DETERMINATION OF THE POROSITY OF GOLD ELECTRODEPOSITS BY QUANTITATIVE ELECTROGRAPHY 67-02 M12-60682
EFFECT OF SUBSTRATE ROUGHNESS ON THE POROSITY OF GOLD ELECTRODEPOSITS 67-02 M12-60683
NEW DEVELOPMENTS IN THE SURFACE SCIENCE OF ELECTRIC CONTACTS 67-03 M18-65416
MIRROR-BRIGHT GOLD PLATING FOR INDUSTRIAL COMPONENTS 67-04 M12-66648
PLATED ABS CHALLENGES DIECASTINGS 67-04 M12-67488
SOLDERABILITY OF COATINGS FOR PRINTED CIRCUITS 67-05 M11-68827

POROSITY IN SINGLE AND MULTI-LAYER ELECTRODEPOSITS, AND ITS RELATION TO THE BASIS METAL STATE 67-05 M12-68819
A UNIQUE DOUBLE DEPOSITION SYSTEM 67-05 M12-68906
SOME PRODUCTION PLATING PROBLEMS AND HOW THEY WERE SOLVED. PT. 11 67-07 M12-74127
DEVELOPMENTS AND TENDENCIES IN PRECIOUS-METAL ELECTROPLATING. PT. 6 67-09 M12-76690
THE METALLIC COATING OF GRAFTED ABS POLYMERS 67-10 M12-79884
A STUDY OF THE EFFECT OF ANODES ON ACID GOLD SOLUTIONS 67-10 M12-79939
THICKNESS AND HARDNESS MEASUREMENTS OF ELECTRODEPOSITS 67-12 M12-81751
THE PLATING OF SPACE VEHICLES WITH PRECIOUS METALS 67-12 M12-82936
THE CONTROL OF GOLD PLATING 67-12 M12-83583

GOLD PLATING, CHEMICAL ANALYSIS
ANALYSIS OF GOLD ALLOY PLATING SOLUTIONS 67-05 M12-68807

GOLD SILVER ALLOY PLATING
SEE ALLOY PLATING
GOLD PLATING
SILVER PLATING

GONIOMETERS
SOME CRYSTALLOGRAPHICAL APPLICATIONS OF THE GONIOMICROSCOPE 67-02 M13-60264
OPTICAL REFLECTIONS AS AN AID IN THE DETERMINATION OF ORIENTATION IN METALLIC CRYSTALS 67-02 M14-60025
THE REPRESENTATION OF TEXTURES ON ROTATING FILM WITH THE AID OF SINGLE-CRYSTAL X-RAY GONIOMETERS 67-02 M14-60027
LAYER THICKNESS MEASUREMENT USING KIESSIGS METHOD WITH AN AUTOMATICALLY RECORDING GONIOMETER 67-07 M19-74025
A DEVICE FOR ORIENTATED CUTTING OF CRYSTALS AND ITS OPERATION AND APPLICATIONS 67-08 M13-74434
X-RAY METHOD FOR RESIDUAL STRESS MEASUREMENTS 67-08 M17-75518
X-RAY CRYSTALLOGRAPHIC ANALYSIS AT HIGH TEMPERATURE WITH A GONIOMETER EQUIPPED WITH A COUNTER 67-11 M13-80151

GP ZONE
SEE GUINIER PRESTON ZONE

GRADIOMETERS
SEE MAGNETIC MEASUREMENTS
MEASURING INSTRUMENTS

GRAEF ROTOR FURNACES
SEE OXYGEN BLOWN CONVERTERS
TOP BLOWN CONVERTERS

GRAIN BOUNDARIES
SEE ALSO GRAIN SUB BOUNDARIES
ELECTRON MICROSCOPY AND DIFFRACTION OF SYNTHETIC CORUNDUM CRYSTALS. PT. 2. DISLOCATIONS AND GRAIN BOUNDARIES IN IMPURITY-DOPED ALUMINIUM OXIDE 67-01 M13-57481
SURFACE AND GRAIN-BOUNDARY DIFFUSION OF GOLD-COPPER 67-01 M14-57104
ON THE RELATION BETWEEN DIFFUSION COEFFICIENTS AND GRAIN BOUNDARY ENERGY 67-01 M14-57485
THE GROWTH OF GRAIN BOUNDARY CAVITIES DURING HIGH TEMPERATURE FATIGUE 67-01 M17-57483
GRAIN BOUNDARY SLIDING IN HIGH-PURITY ALUMINIUM BICRYSTALS DURING THE SHEAR TEST UNDER CONSTANT LOAD AND TEMPERATURE 67-01 M17-58322
GRAIN BOUNDARY SLIDING OF AL-CU SOLID SOLUTION ALLOY DEFORMED BY SHEAR 67-01 M17-58323
SOME OBSERVATIONS OF PITS NEAR GRAIN BOUNDARIES AND OF GRAIN BOUNDARY MIGRATION DURING FATIGUE IN ZINC POLYCRYSTALS 67-02 M13-59069
THE STRUCTURE OF HIGH-ANGLE GRAIN BOUNDARIES 67-02 M13-60635
GRAIN-BOUNDARY SLIDING IN METALS 67-02 M13-61780
GRAIN BOUNDARY MIGRATION 67-02 M14-60603
ON THE THEORY OF GRAIN BOUNDARY MOTION 67-02 M14-60604
THE ANNEALING BEHAVIOR OF HIGH PURITY IRON 67-02 M14-60607
GRAIN BOUNDARY RELAXATIONS IN IRON-CHROMIUM ALLOYS 67-02 M17-58955
THE EFFECT OF BOUNDARY OXIDATION ON THE FORMATION OF THE SURFACE ZONE AND THE FATIGUE STRENGTH OF CASE-HARDENED SPECIMENS 67-02 M17-59531
THE STRESS FIELDS OF DISLOCATION TILT BOUNDARIES IN ANISOTROPIC CUBIC AND DIAMOND-TYPE CRYSTALS 67-03 M13-65378
TRANSFORMATION TWINS IN TITANIUM 67-03 M13-65841
THE ENCOUNTER MECHANISM IN GRAIN GROWTH 67-03 M14-65005
GRAIN BOUNDARY MIGRATION AND THE FORMATION OF RECRYSTALLIZATION TEXTURES IN METAL SINGLE- AND POLYCRYSTALS 67-03 M14-65546
EVOLUTION AFTER ANNEALING OF HIGH PURITY IRON COLD-WORKED BY EXTENSION 67-03 M14-65551
STUDY OF PURE ALUMINUM SINGLE AND BICRYSTALS RECRYSTALLIZATION 67-03 M14-65559
A COMMENT ON DIFFUSION CREEP DEFORMATION IN A MAGNESIUM REACTOR COMPONENT 67-03 M14-65862
INFLUENCE OF THE MACROSTRUCTURE ON THE RADIOGRAPHIC IMAGES OF CAST STAINLESS STEELS 67-04 M13-66044
SLIP BAND CONTINUITY ACROSS GRAIN BOUNDARIES IN ALUMINUM 67-04 M13-66053
SURFACE STRUCTURE AND CHEMICAL REACTIVITY OF ELECTRODEPOSITED NICKEL 67-04 M13-66270
ELECTRON MICROSCOPE OBSERVATIONS OF GAS BUBBLES IN NEUTRON IRRADIATED AL-LI ALLOYS 67-04 M13-66603
SOME PHENOMENA ON THE GRAIN BOUNDARIES IN THE WELD-AFFECTED ZONE 67-04 M13-66801
STUDY OF THE MICROSTRUCTURE OF AL-CU-NI ALLOYS 67-04 M13-67159
MECHANISM FOR VISCOUS GRAIN-BOUNDARY SLIDING 67-04 M14-66681
ON THE CREEP BEHAVIOR OF SILVER. PT. 2. OXYGEN EFFECTS 67-04 M17-66062
THE EFFECT OF GRAIN BOUNDARY PENETRATION ON THE DELAYED FAILURE OF CU-2 PER CENT BE 67-04 M17-66921
GRAIN BOUNDARY EFFECTS IN OXIDE DISPERSION-STRENGTHENED ZINC 67-04 M17-66922
THE PENETRATION OF BI INTO THE GRAIN BOUNDARIES OF CU 67-04 M17-67079
NUCLEATION OF GRAIN-BOUNDARY CAVITIES DURING HIGH-TEMPERATURE CREEP 67-05 M13-68689
TOPOLOGY OF SURFACE GRAINS AFTER ANNEALING OR CREEP 67-05 M14-68692
STUDY OF THE DEFORMATION OF GRAIN BOUNDARY REGION IN PURE AL BICRYSTALS 67-05 M17-68874
A FIELD-ION MICROSCOPE STUDY OF GRAIN BOUNDARIES IN IRON 67-06 M13-70421
SOME OBSERVATIONS ON BOUNDARIES IN TUNGSTEN 67-06 M13-70432
EXPLANATION OF THE CONTRAST DIFFERENCES OF AMORPHOUS AND CRYSTALLINE OBJECTS IN ELECTRON MICROSCOPY 67-06 M13-72144
STRUCTURE OF LOW-ANGLE GRAIN BOUNDARIES IN TUNGSTEN 67-06 M13-72363
GRAIN BOUNDARY MIGRATION DURING RECRYSTALLIZATION. PT. 1. ZONE-REFINED LEAD, ZINC, TIN AND BISMUTH. PT. 2. ZONE-REFINED ALUMINUM 67-06 M14-69933
MORPHOLOGY OF CELLULAR PRECIPITATION OF TIN FROM LEAD-TIN BICRYSTALS 67-06 M14-70425
THE MOVEMENT OF SOLID PARTICLES IN A SOLID 67-06 M14-70436
THE DRAGGING OF SOLID PARTICLES THROUGH METALS BY GRAIN BOUNDARIES 67-06 M14-70440
GRAIN BOUNDARY SEGREGATION AND THE COLD-WORK PEAK IN IRON CONTAINING CARBON OR NITROGEN 67-06 M14-71603
CALCULATION OF THE DEFORMATION CAUSED BY GRAIN BOUNDARY SLIDING DURING THE CREEP OF POLYCRYSTALLINE SOLIDS 67-06 M14-71626
A TRANSIENT EFFECT IN GRAIN-BOUNDARY MIGRATION DURING RECRYSTALLIZATION IN ALUMINUM 67-06 M14-71955
ON THE MAGNITUDE OF THE SOLID/LIQUID INTERFACIAL ENERGY OF PURE METALS AND ITS RELATION TO GRAIN BOUNDARY MELTING 67-06 M14-72222
STRESS-INDUCED MOVEMENT OF TWIN BOUNDARIES IN ZINC 67-06 M14-72225
THE PROPAGATION OF CRACKS THROUGH GRAIN BOUNDARIES IN POLYCRYSTALLINE 3 PER CENT SILICON-IRON 67-06 M17-70414
DETERMINING DEFORMATION CONNECTED WITH THE GRAIN BOUNDARIES WHEN STRETCHING PD IN A WIDE TEMPERATURE RANGE 67-06 M17-72351
INTERNAL AND EXTERNAL INTERFACES 67-07 M13-73676
DISLOCATIONS IN GRAIN BOUNDARIES AND GRAIN BOUNDARY SLIDING 67-07 M13-73920
THE ORIENTATION OF ZIRCONIUM HYDRIDE ON GRAIN BOUNDARIES IN ZIRCALOY-2 67-07 M13-74226
SELF-DIFFUSION IN TELLURIUM. PT. 2. GRAIN

BOUNDARY AND DISLOCATION EFFECTS
67-07 M14-73935
THE INFLUENCE OF OXIDE GRAIN BOUNDARIES ON DIFFUSION-CONTROLLED OXIDATION
67-07 M18-72766
DISTRIBUTION OF THE PRECIPITATES OF THE SECOND PHASE ALONG THE BOUNDARIES IN ALLOYED STEELS AND ALLOYS
67-08 M13-74960
ROLE OF GRAIN BOUNDARIES IN THE DISCONTINUOUS YIELDING OF LOW-CARBON STEELS
67-08 M13-75580
PHENOMENA OCCURRING AT GRAIN BOUNDARIES IN THE HEAT AFFECTED ZONE
67-08 M13-75905
TOPOLOGY OF SURFACE GRAINS AFTER ANNEALING OR CREEP
67-08 M13-76207
RECOVERY AND RECRYSTALLIZATION OF ALUMINIUM DURING EXTRUSION
67-08 M14-75136
THE GRAIN-BOUNDARY SEGREGATION OF FE, CO AND NI IN PURE ALUMINUM AND ITS EFFECTS ON MECHANICAL PROPERTIES
67-08 M14-75356
NUCLEATION OF GRAIN BOUNDARY CAVITIES DURING HIGH-TEMPERATURE CREEP
67-08 M14-76204
HIGH-TEMPERATURE INTERNAL FRICTION IN NI-CR ALLOYS
67-08 M17-75270
EFFECTS OF SOME ADDITIONAL ELEMENTS ON THE DUCTILITY OF ELECTRON BEAM MELTED MOLYBDENUM INGOTS
67-08 M17-75756
INITIAL SINTERING OF RUTILE
67-09 M09-76398
ANISOTROPY OF GRAIN BOUNDARY ENERGY AND ITS INFLUENCE ON BOUNDARY MORPHOLOGY IN SHEET
67-09 M13-77600
STUDY OF INTERGRANULAR CAVITATION IN IRON BY ELECTRON MICROSCOPY OF FRACTURE SURFACES
67-09 M13-77933
THE DIFFUSION OF COPPER IN SILVER --RICH---COPPER ALLOYS
67-09 M14-77738
ROLE OF THE PELTIER EFFECT IN THE DISPLACEMENT OF GRAIN BOUNDARIES IN METAL IN AN ELECTRICAL FIELD
67-09 M14-78011
INTERNAL FRICTION OF ZIRCONIUM DIOXIDE AT TEMPERATURES 20 TO 1250 C
67-09 M17-76777
HIGH TEMPERATURE RELAXATION PEAKS IN COPPER AND ALUMINIUM
67-09 M17-77921
ON VOID FORMATION IN NICKEL DURING CREEP
67-09 M17-77936
CAVITY NUCLEATION DURING CREEP OF MAGNOX AL80
67-09 M17-78267
DEFORMATIONS DURING THE INTERACTION OF TWINS AND MARTENSITIC PLATES WITH BARRIERS
67-10 M13-79236
A STUDY OF EFFECTIVE VOLUMETRIC SELF-DIFFUSION IN SINTERED NICKEL
67-10 M14-78318
THE CONNECTION BETWEEN THE DIFFUSION FACTORS ALONG GRAIN BOUNDARIES AND SURFACE TENSION
67-10 M14-78354
INTERGRANULAR FRACTURE OF ALLOY STEELS
67-10 M17-79771
GRAIN BOUNDARY DISPLACEMENT IN A METAL UNDER THE EFFECT OF AN ELECTRIC FIELD
67-11 M14-80247
THE ROLE OF SURFACE, VOLUME AND GRAIN BOUNDARY DIFFUSION IN THE SINTERING PROCESS OF METALS
67-11 M14-80380
MORPHOLOGY OF CELLULAR PRECIPITATION OF TIN FROM LEAD-TIN BICRYSTALS. PT. 2
67-11 M14-81265
OBSERVATION OF SOLIDIFICATION AND MELTING PHENOMENA IN METALS USING THE ELECTRON MICROSCOPE
67-11 M14-81275
GRAIN BOUNDARY DIFFUSION IN TUNGSTEN
67-11 M14-81346
THE EFFECT OF GRAIN SIZE ON THE LATTICE THERMAL CONDUCTIVITY OF COPPER ALUMINIUM ALLOYS
67-11 M15-80619
GRAIN-BOUNDARY DAMPING IN 16 AND 22.5 PER CENT CHROMIUM-IRON ALLOYS
67-11 M17-80108
A THEORY FOR FLOW OF POLYCRYSTALS
67-11 M17-81599
EFFECTS OF CONSTITUTIONAL LIQUATION IN 18-NI MARAGING STEEL WELDMENTS
67-12 M11-82822
THE PROMISE OF FIELD-ION MICROSCOPY
67-12 M13-82273
MIGRATION OF AUSTENITIC GRAIN BOUNDARIES IN MEDIUM-CARBON HYPOEUTECTOID STEEL DEOXIDIZED WITH ALUMINUM
67-12 M13-82484
SEGREGATION AND GRAIN GROWTH IN DILUTE ALLOYS
67-12 M13-82879
METHOD OF CALCULATING THE ENERGY OF SYMMETRICALLY BENT INTERGRANULAR JOINTS
67-12 M13-83102
ATTACK OF GRAIN BOUNDARIES AND DEFORMATION SUBSTRUCTURES IN 99.99 PER CENT PURE ALUMINUM
67-12 M13-83490
INFLUENCE OF DEFORMATION ON GRAIN BOUNDARY ATTACK AND THE INITIAL GRAIN BOUNDARY MIGRATION TEMPERATURE
67-12 M13-83496
THE MOTTLING APPEARANCE ON A RADIOGRAPH OF AUSTENITIC STAINLESS STEEL WELDMENTS
67-12 M13-83546
FATIGUE CRACK NUCLEATION IN A HIGH-STRENGTH LOW-ALLOY STEEL
67-12 M17-82727
THE STRESS SENSITIVITY OF CREEP OF LEAD AT LOW STRESSES
67-12 M17-82870
BRITTLE FRACTURE ALONG THE GRAIN BOUNDARIES IN MOLYBDENUM
67-12 M17-83311
THE EFFECT OF GRAIN BOUNDARY STRUCTURE ON THE INTERCRYSTALLINE STRESS CORROSION BEHAVIOR OF BRASS ALLOYS
67-12 M18-83142

GRAIN BOUNDARIES, ALLOYING EFFECTS
A NOTE ON THE STRUCTURE AND GROWTH MECHANISM OF SPHEROIDAL GRAPHITE CRYSTALS IN ALLOYS CONTAINING CARBON
67-08 M14-74432

GRAIN BOUNDARIES, DIFFUSION
ON THE GRAIN BOUNDARY DIFFUSION OF SILVER IN TIN
67-01 M14-57296
ON GRAIN BOUNDARY SELF-DIFFUSION OF LEAD. PT. 1. ORIENTATION DEPENDENCE
67-01 M14-58464
ON GRAIN BOUNDARY SELF-DIFFUSION OF LEAD. PT. 2. EFFECT OF SOLUTES
67-01 M14-58465
LATTICE AND GRAIN-BOUNDARY DIFFUSION OF URANIUM IN UO2
67-02 M14-59051
VOLUME AND GRAIN BOUNDARY DIFFUSION OF SN AND ZN IN HETEROGENEOUS SN-ZN ALLOYS
67-03 M14-65369
A SIMPLE EVALUATION OF GRAIN BOUNDARY DIFFUSION IN LIQUID METAL EMBRITTLEMENT
67-04 M14-66273
THE BOUNDARY DIFFUSION OF NICKEL INTO IRON
67-06 M14-70332
THE IMPORTANCE OF LOW-ANGLE BOUNDARIES IN DIFFUSION
67-06 M14-71105
THE PROBLEM OF DIFFUSION IN METAL CRYSTAL DEFECTS SUCH AS DISLOCATIONS AND BOUNDARIES
67-06 M14-72345
LATTICE AND GRAIN-BOUNDARY DIFFUSION OF URANIUM IN UO2
67-08 M14-74419
TEMPERATURE DEPENDENCE OF INTERGRANULAR ADSORPTION OF CARBON AND PHOSPHORUS IN IRON AND STEEL
67-09 M14-77366

GRAIN BOUNDARIES, DISLOCATIONS
FIELD ION MICROSCOPIC OBSERVATIONS OF DISLOCATION STRUCTURES AT GRAIN BOUNDARIES
67-02 M13-61828

GRAIN BOUNDARIES, HEATING EFFECTS
TRANSMISSION ELECTRON MICROSCOPIC STUDIES OF UNDOPED TUNGSTEN WIRE --0.38 MM-- ANNEALED ISOTHERMALLY AT 1180 C
67-05 M13-69861

GRAIN BOUNDARIES, IMPURITY EFFECTS
A FIELD-ION MICROSCOPE STUDY OF SEGREGATION TO GRAIN BOUNDARIES IN IRIDIUM
67-07 M13-73904
METALLOGRAPHIC INVESTIGATION OF ZONE MELTED ALUMINUM
67-10 M13-78961

GRAIN BOUNDARIES, PRECIPITATION
PHASE REACTIONS IN B-1900 NICKEL-BASE ALLOY FROM 1600 TO 1800 F
67-01 M14-58467
HEAT TREATMENT AND CORROSION RESISTANCE OF AUSTENITIC TYPE 304 STAINLESS STEEL
67-01 M18-58470
EFFECT OF THE HOLDING TIME DURING TEMPERING OF 18-8 STAINLESS STEEL ON THE DEVELOPMENT OF THE CHROMIUM-DEPLETED ZONE
67-02 M10-59577
THE CRYSTALLOGRAPHIC ANALYSIS OF GRAIN-BOUNDARY PRECIPITATION
67-02 M14-60631
STUDY OF FRACTURE SURFACES IN CR18NI9TI TYPE STAINLESS STEELS
67-04 M17-67850

GRAIN BOUNDARIES, RADIATION EFFECTS
HIGH TEMPERATURE TENSILE PROPERTIES OF NEUTRON IRRADIATED 20 CR-35 NI AUSTENITIC STEEL
67-07 M13-73853
GRAIN BOUNDARY MIGRATION AND GROWTH OF GAS BUBBLES IN NEUTRON IRRADIATED AL-LI ALLOYS
67-07 M14-74197

GRAIN BOUNDARIES, STRESS EFFECTS
EFFECTS OF STRESS ON THE DEFORMATION ASSOCIATED WITH SLIP ALONG THE GRAIN BOUNDARIES DURING CREEP AT 600 C. IN AN IRON ALLOY CONTAINING 3 PER CENT SI
67-12 M13-82485

GRAIN BOUNDARIES, STRESS RELAXATION
GRAIN BOUNDARY RELAXATION IN FOUR HIGH-PURITY FCC METALS
67-06 M13-71607

GRAIN GROWTH
GRAIN GROWTH IN 45 STEEL DURING RAPID HEATING
67-01 M14-57140

INFLUENCE OF BINDING NITROGEN BY ALUMINUM ON SOME AFTEREFFECTS DURING COLD AND HOT PLASTIC SHAPING OF STEEL 67-01 M14-57151
HOT STAGE MICROSCOPE STUDY OF STRUCTURAL EVOLUTION OF SINTERS OF CARBONYL IRON DURING HEAT TREATMENT 67-01 M14-57170
ON THE OBSERVATION OF GHOST BOUNDARIES PRODUCED BY GRAIN GROWTH IN DILUTE CADMIUM ALLOYS 67-01 M14-57431
THE BEHAVIOR OF CRYSTALS AND VOIDS IN CENTRALLY HEATED GREEN PELLETS 67-01 M14-57991
THE COALESCENCE PHENOMENON IN LIQUID-PHASE SINTERING IN THE SYSTEMS TUNGSTEN-NICKEL-IRON AND TUNGSTEN-NICKEL-COPPER 67-02 M09-62108
SOME OBSERVATIONS OF PITS NEAR GRAIN BOUNDARIES AND OF GRAIN BOUNDARY MIGRATION DURING FATIGUE IN ZINC POLYCRYSTALS 67-02 M13-59069
CONTINUOUS OBSERVATION OF RECRYSTALLIZATION AND SUCCESSIVE COARSENING IN ALUMINUM WITH A 500 KV ELECTRON MICROSCOPE 67-02 M14-59071
DISCUSSION OF OBSERVATIONS ON THE ORIENTATION DISTRIBUTION AND GROWTH OF LARGE GRAINS NEAR --110-- --001-- ORIENTATION IN SILICON-IRON STRIP 67-02 M14-59445
RECRYSTALLIZATION AND GRAIN GROWTH OF ALUMINUM 67-02 M14-60606
THE CRYSTALLOGRAPHIC ANALYSIS OF GRAIN-BOUNDARY PRECIPITATION 67-02 M14-60631
PRECIPITATION PROCESSES IN A COMMERCIAL COPPER-NICKEL-SILICON ALLOY 67-02 M14-61886
THE PART PLAYED BY NUCLEATION IN REACTIONS BETWEEN GASES AND METALS 67-02 M14-62007
THE ENCOUNTER MECHANISM IN GRAIN GROWTH 67-03 M14-65005
A STUDY OF GRAIN GROWTH IN FECO-V 67-03 M14-65091
THE INFLUENCE OF SECONDARY ELEMENTS ON THE RECRYSTALLIZATION AND GRAIN GROWTH OF AL-MN ALLOYS 67-03 M14-65561
CRITICAL STRAIN AND THE GROWTH OF LARGE GRAINS OF THE PU-1 WT PER CENT GA ALLOY 67-03 M14-65861
THEORY OF GRAIN GROWTH IN POROUS COMPACTS 67-03 M14-65866
GRAIN ORIENTATION IN SILICON IRON DURING PRIMARY RECRYSTALLIZATION 67-03 M14-65966
TECHNOLOGICAL FACTORS, DETERMINING THE SELECTION OF STEELS FOR FULL HARDENED RAILS 67-04 M10-66627
IDENTIFICATION OF CRYSTALS OF PHASES PRECIPITATING IN AN AL-CU-AG ALLOY AND THE TOPOLOGY OF THEIR GROWTH 67-04 M13-66868
INFLUENCE OF PRELIMINARY HEAT TREATMENT ON DISPERSIVENESS OF IMPURITIES AND STABILITY OF AUSTENITIC GRAINS 67-04 M14-66364
STUDY OF GRAIN GROWTH IN MEDIUM CARBON STEELS DURING RAPID HEATING 67-04 M14-67139
KINETICS OF GROWTH OF AUSTENITE GRAINS IN 30KHGT STEEL 67-04 M14-67448
THE INFLUENCE OF ORGANIC ADDITIONS ON COLUMNAR GRAIN GROWTH OF SINTERED URANIUM DIOXIDE 67-04 M14-67460
EFFECT OF PRELIMINARY HEAT TREATMENT AND ALUMINUM NITRIDES ON AUSTENITE GRAIN GROWTH 67-04 M14-67852
INCREASE IN GRAIN SIZE DURING RECRYSTALLIZATION OF HEAT RESISTANT NICKEL ALLOYS 67-05 M14-68358
EFFECTS OF THERMAL CYCLING ON URANIUM CARBON ALLOYS 67-05 M14-68563
DIRECT OBSERVATION OF CHANGE FROM THETA-PRIME TO THETA PHASE IN PRECIPITATION OF AN AL-CU ALLOY 67-05 M14-68872
STRUCTURAL AND SUBSTRUCTURAL CHANGES IN DEFORMED MO ALLOYS DURING HEATING 67-06 M13-72360
INHIBITION OF GRAIN GROWTH DURING RECRYSTALLIZATION AND HARDENING BY INTERVAL HYDROGENATION OF MAGNESIUM-ZIRCONIUM ALLOYS 67-06 M14-70253
A CINEMATOGRAPHIC STUDY OF THE MASSIVE TRANSFORMATION IN CU-GA ALLOYS 67-06 M14-70403
THEORETICAL ANALYSIS ON THE DILATOMETER CURVES OF CAST IRON 67-06 M14-70585
INHIBITION OF AUSTENITIC GRAIN GROWTH BY ALUMINIUM NITRIDE 67-06 M14-71335
A TRANSIENT EFFECT IN GRAIN-BOUNDARY MIGRATION DURING RECRYSTALLIZATION IN ALUMINUM 67-06 M14-71955
SLIP CASTING OF METAL POWDERS 67-07 M09-73871
THE CARBURIZING OF CASE HARDENING STEELS IN THE TEMPERATURE RANGE OF 920 TO 1100 C 67-07 M10-73185
SINTERED TYPE 316L STAINLESS--ITS PROPERTIES AND PROCESSING 67-08 M09-74490
INFLUENCE OF ROLLING TEMPERATURE ON TEXTURES IN RIMMING STEEL 67-08 M13-75814
WORK HARDENING, RECOVERY, RECRYSTALLIZATION AND GRAIN GROWTH 67-08 M14-74805
SUBGRAIN FORMATION IN FE-C-SI ALLOYS DUE TO CONSTITUTIONAL UNDERCOOLING 67-08 M14-75036
DRIVING FORCES OF SECONDARY RECRYSTALLIZATION 67-08 M14-75267
EFFECT OF GRAIN FORM ON THE PROPERTIES OF TAR-DOLOMITE PIECES 67-08 M14-75598
GRAIN GROWTH DURING SINTERING OF TUNGSTEN 67-09 M09-77460
APPRAISAL OF METHODS OF SHOWING UP AUSTENITE GRAIN 67-09 M13-76802
SPONTANEOUSLY AND ARTIFICIALLY RECRYSTALLIZED TEXTURES IN ROLLED 3 PER CENT SILICON-IRON SINGLE CRYSTALS 67-09 M13-77716
THE PRESSURE/TEMPERATURE BEHAVIOR OF PURE PLUTONIUM 67-09 M14-76310
THE AUSTENITIC GRAIN GROWTH OF SPECIALLY REMELTED STEELS UNDER CERTAIN CONSIDERATIONS OF GROWTH INHIBITING INFLUENCES 67-09 M14-77227
STABILIZATION OF SIZE OF MATRIX GRAIN IN TRANSFORMER STEEL THIN STRIP 67-09 M14-77779
MICROSTRUCTURE CHANGE INDUCED BY CENTER MELTING AND THE FORMATION OF CENTRAL VOIDS IN POWDER COMPACTED UO2 FUEL 67-09 M14-78222
THE FINE STRUCTURE AND PROPERTIES OF TUNGSTEN MONOCRYSTALS 67-10 M13-78965
METALLOGRAPHY OF CAST IRON 67-10 M13-79218
HIGH-TEMPERATURE MICROSCOPE EXAMINATION OF AUSTENITE GRAIN GROWTH IN HARDENABLE STEELS 67-10 M14-78654
GRAIN GROWTH AND CHANGES IN MAGNETIC PROPERTIES DURING THE SECONDARY RECRYSTALLIZATION OF COLD ROLLED TRANSFORMER STEEL 67-10 M14-78972
INVESTIGATIONS ON TEMPERED STEELS. PT. 3 67-10 M14-79485
THE MECHANISM OF THE FORMATION OF MIXED AND COARSENED GRAIN STRUCTURE IN EI437B ALLOY 67-11 M13-81659
THE REFINEMENT OF PLATINUM BY ANNEALING IN AIR 67-11 M14-80320
MICROMETALLURGY OF AUSTENITIC GRAIN SIZE CONTROL OF STEEL. PT. 2. VARIATION OF ALN PRECIPITATION WITH ALUMINIUM 67-11 M14-80404
EFFECTS OF PRELIMINARY HEAT TREATMENT ON THE SIZE OF INCLUSIONS AND THE STABLE AUSTENITE GRAIN SIZE 67-11 M14-80966
ELECTRON MICROSCOPIC OBSERVATION ON THE RECRYSTALLIZATION OF THE HEAVILY ROLLED SHEET OF 7-3 BRASS 67-11 M14-81063
THE GROWTH RATE OF DISPERSION PARTICLES IN NICKEL. PT. 1 67-12 M09-82214
THE EFFECT OF HEAT TREATMENT ON THE PROPERTIES OF THE HIGH-SPEED TOOL STEEL, X 85 W MO CO 6.5.5 67-12 M10-82932
STUDY OF THE COMPETITIVE GROWTH OF SECONDARY GRAINS DURING ANNEALING OF TRANSFORMER STEEL UNDER TEMPERATURE GRADIENT CONDITIONS 67-12 M14-82337
INFLUENCE OF REFINING OF AUSTENITIC GRAINS ON THE PROPERTIES OF LOW CARBON STEELS AFTER LOW-TEMPERATURE TEMPER 67-12 M17-83537

GRAIN GROWTH, ALLOYING EFFECTS
ON THE YIELD OF SULFUR AND THE INFLUENCE OF SULFUR ON THE MAGNETIC PROPERTIES OF TITANIUM CONTAINING HIGH-COERCIVE FORCE ALNICO MAGNET ALLOYS WITH SULFUR 67-02 M15-60141
ON THE REFINING EFFECT OF SI IN THE VACUUM MELTING OF 50NI-FE ALLOY AND ITS INFLUENCE ON THE MAGNETIC PROPERTIES 67-05 M15-69862
ALLOYING LOW-CARBON MANGANESE STEEL WITH MINUTE ADDITIONS OF HAFNIUM 67-07 M14-72669
EFFECTS OF ALUMINIUM NITRIDE ON THE PROPERTIES OF STEEL 67-08 M14-74736
EFFECTS OF ALUMINIUM NITRIDE ON THE PROPERTIES OF STEEL 67-09 M14-77379
EFFECT OF THE SOLUTE CONTENT ON THE DENDRITIC STRUCTURE IN COLUMNAR CRYSTALS OF BINARY ALLOY 67-09 M14-78230
GRAIN-COARSENING OF AUSTENITE 67-10 M14-78333
EFFECTS OF TITANIUM ON THE AUSTENITIC STRUCTURE OF RAIL STEEL 67-10 M14-78941
GROWTH RATE OF BAINITE FROM LOW-CARBON IRON-NICKEL-

GRAIN GROWTH

CARBON AUSTENITE 67-12 M14-82715
GRAIN GROWTH, HEATING EFFECTS
THE MICROSTRUCTURE OF HOT FORGED ALUMINUM 67-02 M14-59126
NUCLEATION AND GROWTH OF GRAPHITE IN MALLEABLE CAST IRON 67-07 M14-73253
GRAIN GROWTH, IMPURITY EFFECTS
COALESCENCE OF SULFIDES DURING SECONDARY GROWTH IN 3 PER CENT SILICON-IRON 67-07 M14-73515
THE EFFECT OF NONMETALLIC INCLUSIONS ON CERTAIN MATERIAL PROPERTIES OF STEEL 67-07 M17-73194
THE THEORY OF THE EFFECT OF IMPURITIES ON THE GROWTH RATE OF GRAINS IN THE RECRYSTALLIZATION OF METALS 67-08 M14-75262
GRAIN GROWTH OF RIMMED MILD STEEL SHEET UNDER THE DISTRIBUTION OF SPHERICAL INCLUSIONS OF DIFFERENT SIZES 67-09 M14-78243
GRAIN GROWTH, RADIATION EFFECTS
GRAIN BOUNDARY MIGRATION AND GROWTH OF GAS BUBBLES IN NEUTRON IRRADIATED AL-LI ALLOYS 67-07 M14-74197
GRAIN GROWTH, WELDING EFFECTS
HETEROGENEITY AND AUSTENITE GRAIN GROWTH IN ELECTROSLAG WELDING OF 15KH2MF STEEL 67-11 M14-80552

GRAIN ORIENTATION
A RAPID GRAPHICAL SINGLE-SURFACE ORIENTATION TECHNIQUE FOR FACE-CENTERED METALS 67-01 M13-57411
SOME CRYSTALLOGRAPHICAL APPLICATIONS OF THE GONIOMICROSCOPE 67-02 M13-60264
PLASTIC ANISOTROPY OF GRAIN-ORIENTED SILICON IRON 67-02 M13-61778
DISCUSSION OF OBSERVATIONS ON THE ORIENTATION DISTRIBUTION AND GROWTH OF LARGE GRAINS NEAR --110-- --001-- ORIENTATION IN SILICON-IRON STRIP 67-02 M14-59445
OPTICAL REFLECTIONS AS AN AID IN THE DETERMINATION OF ORIENTATION IN METALLIC CRYSTALS 67-02 M14-60025
THE EPITAXIAL RELATIONSHIPS OF NUCLEI OF FE2SIO4, FORMED AT THE SITES ON IRON 67-02 M14-62251
TEXTURE AND ELECTRICAL CONDUCTIVITY OF CADMIUM SULFIDE FILMS 67-02 M15-61658
IMPROVING THE PRECISION OF THE CRYSTALLOGRAPHIC ORIENTATION AND RECIPROCAL DISORIENTATION OF MICROPARTICLES IN AN ELECTRON MICROSCOPIC OBJECT 67-03 M13-65603
ESTIMATING THE DEGREE OF TEXTURING IN A LOW-TEXTURED ALLOY 67-03 M13-65604
QUALITATIVE STUDY OF THE ORIENTATION OF ROLLED IRON 67-03 M13-65781
EFFECT OF TEXTURE, GRAIN SIZE, AND COLD WORK ON THE PRECIPITATION OF ORIENTED HYDRIDES IN ZIRCALOY TUBING AND PLATE 67-03 M14-65849
GRAIN ORIENTATION IN SILICON IRON DURING PRIMARY RECRYSTALLIZATION 67-03 M14-65966
THE EFFECT OF POROSITY AND CRYSTAL ORIENTATION ON THE YOUNGS MODULUS OF ARTIFICIAL GRAPHITE 67-03 M17-65853
DISORIENTATIONS IN AN IRON-NICKEL ALLOY AFTER THE DIRECT AND REVERSE MARTENSITIC TRANSFORMATIONS 67-04 M13-67639
TEXTURES OF EXTRUDED BAR AND TUBE AND DRAWN WIRE OF BE 67-05 M13-68570
AN ELECTRON DIFFRACTION STUDY OF PEARLITE 67-05 M13-69431
AN ULTRASONIC METHOD OF DETERMINING GRAIN ORIENTATION OF TRANSFORMER STEEL 67-05 M13-69611
ROLLING AND ANNEALING TEXTURE OF --112-- --163-- COPPER SINGLE CRYSTAL 67-05 M14-68569
HYDRIDE HABIT IN ZIRCONIUM AND IN UNSTRESSED AND STRESSED ZIRCALOY-4 67-06 M13-69944
YIELDING AND PLASTIC DEFORMATION IN TEXTURED SHEET OF TITANIUM AND ITS ALLOYS 67-06 M13-71609
THE ORIENTATION DEPENDENCE OF DISLOCATION DAMPING IN ZINC 67-06 M14-69939
SECONDARY RECRYSTALLIZATION IN ALPHA ZIRCONIUM 67-06 M14-71624
DISCUSSION OF MECHANISMS OF FORMATION OF THETA PRECIPITATES IN AL-4 PER CENT CU BY C. LAIRD AND H. I. AARONSON 67-06 M14-72231
CRYSTALLOGRAPHIC COMPLEXITIES IN THE AL-CU SYSTEM 67-06 M14-72232
REPLY TO CRYSTALLOGRAPHIC COMPLEXITIES IN THE AL-CU SYSTEM 67-06 M14-72233
REPLY TO COMMENTS ON CRYSTALLOGRAPHIC COMPLEXITIES IN THE AL-CU SYSTEM 67-06 M14-72234
THE ORIENTATION OF ZIRCONIUM HYDRIDE ON GRAIN BOUNDARIES IN ZIRCALOY-2 67-07 M13-74226
PRODUCTION AND PROPERTIES OF GRAINORIENTED COMMERCIALLY PURE IRON 67-07 M14-73536
IMPROVED DETERMINATION ON THE CRYSTALLOGRAPHIC ORIENTATION AND MUTUAL DISORIENTATION OF MICROSCOPIC SECTIONS OF AN ELECTRON-MICROSCOPE OBJECT 67-08 M13-74528
ESTIMATING THE DEGREE OF TEXTURE IN A LOW-TEXTURE ALLOY 67-08 M13-74529
THE FORMATION OF SECONDARY RECRYSTALLIZATION NUCLEI IN TRANSFORMER STEEL 67-08 M14-75268
ELASTORESISTANCE EFFECTS IN EVAPORATED-ANTIMONY FILMS 67-08 M15-74611
CHANGES IN MAGNETIC PATTERNS AND OXIDATION RATE OF FERRITE CRYSTALS DURING INITIAL STAGES OF ELASTOPLASTIC DEFORMATION 67-08 M17-76229
THE CRYSTALLOGRAPHIC CHARACTERISTICS OF THE AUSTENITE, RETRANSFORMED IN THE MARTENSITE WITH FAST HEATING, IN A FE-NI ALLOY WITH 32.5 PER CENT NICKEL 67-09 M13-77849
ORIENTATION DEPENDENCE OF YIELD STRESS IN 4.4 PER CENT SILICON IRON SINGLE CRYSTALS 67-09 M17-77929
CARBIDE PRECIPITATION IN WEAKLY-ALLOYED NI-CR-MO STEEL 67-10 M13-79586
X-RAY INVESTIGATION OF THE EARLY STAGE OF CREEP 67-10 M17-78379
THE RELATIONSHIP BETWEEN METAL STRENGTH AND THE DISORIENTATION OF MOSAIC BLOCKS AND CRYSTALLITE SIZE 67-10 M17-79228
STABILITY OF THE --110-- --112-- ORIENTATION IN SILVER DEFORMED BY PLANE STRAIN COMPRESSION 67-11 M13-81541
CRYSTALLOGRAPHY OF THE PRECIPITATION OF FERRITE ON AUSTENITE GRAIN BOUNDARIES IN A CO PLUS 20 PER CENT FE ALLOY 67-11 M13-81588
A CRYSTALLOGRAPHIC INTERPRETATION OF THE PREFERRED ORIENTATION OF LARGE GRAINS IN DOPED TUNGSTEN WIRE 67-12 M13-82873
THE EFFECT OF INHOMOGENEOUS TEXTURES ON MECHANICAL PROPERTIES OF LOW-CARBON STEEL SHEETS 67-12 M17-82582
GRAIN ORIENTATION, ALLOYING EFFECTS
A COMPARISON OF THE USE OF ALUMINUM AND VANADIUM NITRIDES FOR MAKING GRAIN-ORIENTED SILICON-IRON 67-07 M13-73519
GRAIN ORIENTATION, HEATING EFFECTS
EFFECTS OF SPECIMEN THICKNESS AND ORIENTATION ON WEIGHT LOSS OF ALPHA-BRASS SINGLE CRYSTALS DUE TO HEATING IN VACUUM 67-08 M13-74604
GRAIN ORIENTATION, MAGNETIC PROPERTIES
EFFECTS OF STRONG MAGNETIC FIELD ON THE SOLIDIFICATION OF ALUMINUM ALLOYS 67-12 M15-81901
GRAIN ORIENTATION, STRESS EFFECTS
X-RAY ANALYSIS OF THE SUBSTRUCTURE OF ALUMINUM DURING CREEP 67-04 M17-66488
EFFECT OF DEGREE OF DEFORMATION ON TEXTURES OF DEFORMATION AND RECRYSTALLIZATION IN SILICON IRON 67-05 M17-68558
EFFECTS OF DEGREE OF DEFORMATION ON DEFORMATION AND RECRYSTALLIZATION TEXTURES IN SILICON IRON 67-07 M17-72469
INFLUENCE OF THE DEGREE OF SWAGING DURING COLD ROLLING ON THE FORMATION OF THE RECRYSTALLIZATION TEXTURE IN THE N29K18 AND N47KH ALLOYS 67-08 M14-74993
GRAIN REFINEMENT
INFLUENCE OF RARE EARTH METALS ON STRUCTURE AND PROPERTIES OF BR. OS 5-25 BRONZE 67-01 M06-57329
THE INFLUENCE OF LOW-FREQUENCY VIBRATION ON THE NUCLEATION OF SOLIDIFYING METALS 67-02 M14-61840
INFLUENCE OF FERRITE FORM ON REFINEMENT OF STEEL IN FRACTURE 67-02 M14-62272
CONTRIBUTION TO THE STUDY OF THE RECRYSTALLIZATION OF BERYLLIUM AND BERYLLIUM-CALCIUM 67-03 M14-65278
ON THE INTERMEDIATE ANNEALING DURING COLD FORMING PROCESS OF STEEL 67-04 M10-66893
THE FINE STRUCTURE OF AUSTENITIC STEEL STRENGTHENED BY AN INTERMETALLIC CONSTITUENT, AND DEFORMED IN A WIDE TEMPERATURE RANGE 67-04 M13-67640
PHASE AND STRUCTURAL RECRYSTALLIZATION OF 15KH1M1F STEEL DURING HEATING 67-04 M14-66622
GRAIN REFINING OF CAST ALUMINUM 67-04 M14-67064

METALLURGICAL ABSTRACTS ON LIGHT METALS AND ALLOYS. V 2 67-05 M01-68899
INFLUENCE OF SOLIDIFICATION RATE ON GRAIN REFINEMENT OF CAST STRUCTURE OF 22 PER CENT SI-AL ALLOY WITH OR WITHOUT PHOSPHORUS ADDITIONS 67-05 M06-68875
INFLUENCE OF PHOSPHORUS ON GRAIN REFINEMENT OF CAST STRUCTURE OF 22 PER CENT SI-AL ALLOY 67-05 M06-68876
STUDY GIVES GREEN LIGHT TO SWING FORGE AT ROBLIN 67-05 M07-68445
GRAIN-REFINED C-MN STEELS 67-06 M10-70807
EFFECT OF ROLLING CONDITIONS ON THE GRAIN SIZE IN MG-ZR ALLOYS 67-06 M13-70209
THEORETICAL PROBLEMS OF MODIFYING ALUMINUM AND ITS ALLOYS 67-06 M14-70930
EFFECT OF PRIOR HEAT TREATMENTS ON AUSTENITE GRAIN SIZE AND ITS COARSENING BEHAVIOR IN ALUMINIUM-KILLED STEEL 67-06 M14-72073
EMBRITTLING PHENOMENON OF COPPER ALLOYS DURING ANNEALING. PT. 3. GRAIN SIZE DEPENDENCE OF EMBRITTLING PHENOMENON OF BRASS DURING ANNEALING 67-06 M17-71441
INFLUENCE OF RARE EARTH METALS ON THE STRUCTURE AND PROPERTIES OF BRONZE BR. OS 5-25 67-07 M06-73051
RESEARCH INTO HIGH-STRENGTH STEEL CASTINGS 67-07 M10-72991
MELTING TREATMENT IN THE GRAVITY DIECASTING FOUNDRY 67-08 M06-75640
EFFECT OF THE THERMAL RESISTANCE OF FOUNDRY MOLDS ON THE STRUCTURE AND MECHANICAL PROPERTIES OF CASTINGS IN HYPEREUTECTOID STEEL 67-10 M06-79331
MECHANICAL PROPERTIES OF HYPOEUTECTIC SILUMIN OF SEMICONDUCTOR PURITY 67-10 M17-79040
MICROMETALLURGY OF AUSTENITIC GRAIN SIZE CONTROL OF STEELS. PT. 1. EFFECT OF ALUMINUM ON PHYSICAL PROPERTIES 67-11 M13-80418
FRACTURE OF POLYCRYSTALS 67-11 M17-80141
THE EFFECTS OF SOLUTES ON THE FRACTURE BEHAVIOR OF METALS 67-11 M17-80143
SELECTIVE GROWTH IN THE RECRYSTALLIZATION OF A ZONE-REFINED ALUMINUM SINGLE CRYSTAL 67-12 M14-82737
STUDY OF AUSTENITE FORMATION. THE CASE OF 15CDV6 STEEL 67-12 M14-83494
DEFORMATION AND CONTROLLED ANNEALING OF U-S3M --CU-3 PER CENT SI-1 PER CENT MN-- ALLOY SHEET 67-12 M17-83501

GRAIN REFINEMENT, ALLOYING EFFECTS
THE DISTRIBUTION OF BE AND THE GRAIN SIZE IN MG-AL ALLOYS CONTAINING BE 67-05 M06-68865
INFLUENCE OF MELTING CONDITION AND ADDITION TEMPERATURE ON GRAIN REFINEMENT OF CAST STRUCTURE OF 22 PER CENT SI-AL ALLOY WITH PHOSPHORUS ADDITION 67-05 M06-68877
CONSIDERATIONS ON THE BEHAVIOR OF PHOSPHORUS FOR THE GRAIN REFINEMENT OF 22 PER CENT SI-AL ALLOY 67-05 M06-68878
STUDY ON MACROSTRUCTURE OF AL ALLOY 67-05 M13-68884
INFLUENCE OF YTTRIUM ON THE RECRYSTALLIZATION BEHAVIOR OF HIGH-PURITY AL 67-05 M14-68891
GRAIN REFINING AND MECHANICAL PROPERTIES OF URANIUM ALLOYS CONTAINING SMALL AMOUNTS OF VANADIUM 67-05 M14-68918
EFFECT OF IRON CONTENT IN SAND-CAST COMPLEX BRASS BS1400..HTB2 AND HTB3 67-07 M17-74256
INFLUENCES OF CARBIDES ON THE PROPERTIES OF ALUMINUM AND ITS ALLOYS. PT. 1. EFFECTS OF TIC, TIC-WC, TAC-WC AND WC ON REFINING OF THE GRAIN SIZE OF PURE ALUMINUM 67-08 M14-75372
GRAIN REFINEMENT IN STEEL CASTINGS 67-09 M06-76725
THE PARTICIPATION OF HYDROGEN IN THE FORMATION OF CRYSTALLIZATION CENTERS IN MAGNESIUM MELTS AND IN THE REFINING OF AL-SI-ALLOYS 67-10 M14-78690
THE EFFECT OF NICKEL ON THE LOW-TEMPERATURE BRITTLENESS OF IRON AND STEELS 67-11 M17-80948
THE EFFECTS OF ADDITIONS OF CHEMICALLY PURE ELEMENTS ON PRECIPITATION OF AGE-HARDENABLE AL-ZN-MG ALLOYS 67-12 M10-83108

GRAIN REFINEMENT, COOLING EFFECTS
THE MECHANISMS OF CRYSTAL MULTIPLICATION DURING SOLIDIFICATION IN THE PRESENCE OF FLUID MOTION 67-12 M14-82569

GRAIN REFINEMENT, RADIATION EFFECTS
METHODS OF TREATING METAL AND STEEL MELTS BY VIBRATION WITH EMPHASIS ON GRAIN REFINEMENT BY TREATING WITH ULTRASONIC WAVES DURING SOLIDIFICATION 67-09 M06-77845

GRAIN REFINEMENT, STRESS EFFECTS
INFLUENCE OF A UNIAXIAL COMPRESSIVE STRESS ON THE KINETICS OF THE BETA-ALPHA TRANSFORMATION IN U-CR ALLOYS AND ON GRAIN FINENESS 67-11 M14-81561

GRAIN SIZE
X-RAY DIFFRACTION MICROSCOPY STRUCTURAL STUDY OF THE AUSTENITE OF FE-NI ALLOYS IN THE DIRECT AND REVERSE MARTENSITIC TRANSFORMATIONS 67-01 M13-57351
STUDY OF THE MICROSTRUCTURE OF GRAY CAST IRON CONTAINING DIFFERENT QUANTITIES OF PHOSPHORUS 67-01 M13-58162
EFFECT OF PARTICLES IN CU-3.23 WT PER CENT CO ALLOY ON THE ANNEALING BEHAVIOR AFTER HEAVY ROLLING 67-01 M14-57415
DISLOCATION SUBSTRUCTURE IN IRON INDUCED BY ALPHA-GAMMA-ALPHA TRANSFORMATION CYCLING 67-01 M14-58466
EFFECTS OF GASES ON THE PROPERTIES OF VAPOR-DEPOSITED NI-FE FILMS 67-01 M15-57113
VARIATIONS IN SOME PROPERTIES OF SINTERED TUNGSTEN CARBIDE-COBALT ALLOYS WITH PARTICLE SIZE AND BINDER COMPOSITION 67-01 M15-58743
THE TECHNOLOGY OF HIGH SPEED STEELS. PT. 1 67-01 M17-58720
EFFECT OF GRAIN SIZE ON STRESS CORROSION OF TYPE 302 AUSTENITIC STAINLESS STEEL 67-01 M18-58483
DEPENDENCE OF GRAIN NBCO.80 SIZE ON TEMPERATURE 67-02 M13-60180
POSSIBILITY OF CONTROLLING GRAIN SIZE IN COPPER 67-02 M13-60782
STUDY ON THE AUSTENITE GRAIN SIZE AND ITS COARSENING BEHAVIOR OF ALUMINUM KILLED STEEL 67-02 M14-60156
DISCUSSION OF EFFECTS OF GRAIN SIZE ON TENSILE AND CREEP PROPERTIES OF ARC-MELTED AND ELECTRON BEAM-MELTED TUNGSTEN AT 2250 TO 4140 F 67-02 M17-59444
DENDRITE STRUCTURE AND GRAIN SIZE OF UNDER COOLED MELTS 67-03 M14-65078
RECRYSTALLIZATION DUE TO PLASTIC DEFORMATION IN HOT WORKING 67-03 M14-65556
MICROSTRUCTURE AND ITS INFLUENCE ON STRENGTH 67-03 M17-65335
INFLUENCE OF GRAIN SIZE ON PROPERTIES OF AK4-1 ALLOY SHEETS 67-03 M17-65787
THE RECRYSTALLIZATION BEHAVIOR OF LOW-CARBON BASIC OXYGEN AND BASIC OPEN-HEARTH STEELS 67-04 M04-67905
STUDY OF THE MICROSTRUCTURE OF AL-CU-NI ALLOYS 67-04 M13-67159
GRAIN-SIZE DETERMINATION ON HARDENED STEEL FROM X-RAY INTENSITY FLUCTUATIONS 67-04 M13-67666
GRAIN REFINING OF CAST ALUMINUM 67-04 M14-67064
EFFECTS OF THE THIRD ADDITION ELEMENTS ON GRAIN SIZE OF PRIMARY SILICON AND ITS COOLING RATE DEPENDENCY IN AL-20 PER CENT SI ALLOY 67-04 M14-67117
A MODIFIED DOUBLE PILE-UP TREATMENT OF THE INFLUENCE OF GRAIN SIZE AND DISPERSED PARTICLES ON BRITTLE FRACTURE 67-04 M17-66066
THE EFFECT OF GRAIN SIZE ON THE STRESS-STRAIN RELATIONSHIP IN LOW-CARBON STEEL 67-04 M17-66931
EFFECT OF SAMPLE GRAIN SIZE ON RESULTS OF SPECTRAL ANALYSIS STEELS 67-04 M19-67085
INFLUENCE OF PHOSPHORUS ON GRAIN REFINEMENT OF CAST STRUCTURE OF 22 PER CENT SI-AL ALLOY 67-05 M06-68876
INFLUENCE OF ULTRASONIC VIBRATION ON GRAIN GROWTH OF AUSTENITE DURING ANNEALING 67-05 M10-69510
PERMISSIBLE GRAIN SIZE IN HIGH SPEED CUTTING STEELS 67-05 M13-68391
IRREGULAR TEXTURES OF ALUMINUM SHEETS 67-05 M13-68401
DIFFERENCE IN THE GRAIN SIZES OF NI-CR ALLOYS RESULTING FROM UNIFORM DEFORMATION 67-05 M14-68359
EFFECT OF PRIOR HEAT TREATMENTS ON AUSTENITE GRAIN SIZE AND ITS COARSENING BEHAVIOR IN ALUMINIUM-

GRAIN SIZE

KILLED STEEL 67-06 M14-72073
EFFECT OF GRAIN SIZE AND ANNEALING TREATMENT ON STEADY-STATE CREEP OF COPPER 67-06 M17-69931
GRAIN SIZE DEPENDENCE OF EMBRITTLING PHENOMENON OF BRASS DURING ANNEALING 67-06 M17-70784
GRAIN SIZE DEPENDENCE OF THE YIELD STRESS AND THE FLOW STRESS IN PURE IRON 67-06 M17-70788
EMBRITTLING PHENOMENON OF COPPER ALLOYS DURING ANNEALING. PT. 3. GRAIN SIZE DEPENDENCE OF EMBRITTLING PHENOMENON OF BRASS DURING ANNEALING 67-06 M17-71441
PREPARATION OF FINE-GRAIN BERYLLIUM BY THE CAST AND WROUGHT ROUTE 67-07 M07-73736
THE STRUCTURE OF ELECTRODEPOSITS AND CATALYSTS EXAMINED BY X-RAY DIFFRACTION TECHNIQUES 67-07 M13-74220
COMPARISON OF THE HALL-PETCH PARAMETERS OF ZONE-REFINED IRON DETERMINED BY THE GRAIN SIZE AND EXTRAPOLATION METHODS 67-07 M17-73915
INFLUENCE OF PHOSPHORUS ON PROPERTIES OF 45KH10G14YU2 STEEL 67-07 M17-74192
FROM ROLL-HARDENING TO THE 40-MVA RESISTANCE HEATING OF STEEL AND ITS AUSTENITE GRAIN SIZE 67-08 M10-75105
THE PROBLEM OF VARIATIONS IN GRAIN SIZE IN A NIMONIC-TYPE ALLOY 67-08 M13-75023
THE FACTORS DETERMINING THE FREQUENCY OF OCCURRENCE OF ANNEALING TWINS 67-08 M13-75333
ROLE OF GRAIN BOUNDARIES IN THE DISCONTINUOUS YIELDING OF LOW-CARBON STEELS 67-08 M13-75580
KINETICS OF SECONDARY RECRYSTALLIZATION IN TRANSFORMER STEEL 67-08 M14-74641
RECRYSTALLIZATION OF IRON-ALUMINUM ALLOYS 67-08 M14-74992
GRAIN SIZE AND THE TRANSITION TEMPERATURE OF STRUCTURAL STEELS 67-08 M17-74940
INFLUENCE OF THE GRAIN SIZE AND THE NB/C RATIO ON THE PROPERTIES OF KH16N15 M3B STEEL 67-08 M17-76015
STRUCTURES OF URANIUM EXTRUDED HIGH IN THE ALPHA PHASE 67-09 M07-77465
MECHANICAL PROPERTIES OF CHROMIUM DIFFUSION COATINGS 67-09 M12-76435
TEMPERATURE DEPENDENCE OF THE GRAIN SIZE OF NBCO.80 67-09 M13-76913
RELATION BETWEEN THE DISTRIBUTION OF TINY INCLUSIONS IN RIMMED MILD STEEL SHEET AND THE RECRYSTALLIZED GRAIN SIZE 67-09 M13-78244
RECRYSTALLIZATION OF A HEAT RESISTANT NICRWTI STEEL AT TECHNICAL HOT WORKING AND AUSTENITIZING TEMPERATURES 67-09 M14-76695
TESTS ON THIRTEEN DIFFERENT LEAD CABLE SHEATHING MATERIALS 67-09 M17-76606
THE EFFECT OF IRRADIATION ON THE HIGH TEMPERATURE FRACTURE OF STAINLESS STEEL 67-09 M17-78265
EFFECT OF THE GRAIN SIZE OF THE SAMPLE ON THE RESULTS OF THE SPECTRAL ANALYSIS OF STEELS 67-09 M19-78066
RESEARCH INTO THE EFFECTS OF DEFORMATION AND ANNEALING ON THE STRUCTURE OF MONOCRYSTALLINE SPECIMENS OF E1437B ALLOY 67-10 M13-78959
LATTICE EXPANSIONS AND POLYCRYSTALLINE DEFORMATIONS 67-10 M14-78340
STRUCTURAL EFFECTS IN PULSED STRAINING OF LOW-CARBON STEEL 67-12 M13-81716
EFFECT OF CHEMICAL COMPOSITION AND NEUTRON IRRADIATION ON MECHANICAL PROPERTIES OF FE OF DIFFERENT GRAIN SIZE 67-12 M16-82808
THE THERMAL FATIGUE OF SPHEROIDAL GRAPHITE CAST IRON 67-12 M17-82601
RATE-SENSITIVE DEFORMATION IN TIN-LEAD ALLOYS 67-12 M17-82970

GRAIN SIZE, ALLOYING EFFECTS
HIGH-STRENGTH PRECIPITATION-HARDENED CONSTRUCTIONAL STEELS 67-02 M17-60692
PROPERTIES OF CR-MN-NI STEELS CONTAINING NITROGEN AT LOW TEMPERATURES 67-04 M17-67975
INFLUENCE OF MELTING CONDITION AND ADDITION TEMPERATURE ON GRAIN REFINEMENT OF CAST STRUCTURE OF 22 PER CENT SI-AL ALLOY WITH PHOSPHORUS ADDITION 67-05 M06-68877
CONSIDERATIONS ON THE BEHAVIOR OF PHOSPHORUS FOR THE GRAIN REFINEMENT OF 22 PER CENT SI-AL ALLOY 67-05 M06-68878
COMBINED EFFECT OF SURFACE-ACTIVE AND SURFACE-INACTIVE IMPURITIES ON THE MICROSTRUCTURE OF TIN 67-05 M13-69264
EFFECT OF SMALL ADDITIONS OF TRANSITIONAL ELEMENTS ON THE MICROSTRUCTURE OF AL-MG ALLOYS 67-06 M13-72123
INFLUENCE OF RARE EARTH METALS ON THE GRAIN SIZE AND THE FINE STRUCTURE OF A STRUCTURAL STEEL 67-12 M13-82157
THE EFFECT OF ALUMINIUM GRAIN SIZE OF INTERACTIONS BETWEEN ELEMENTS ADDED TO THE LIQUID METAL 67-12 M14-82117

GRAIN SIZE, COOLING EFFECTS
FORMATION OF THE CHILL ZONE IN INGOT SOLIDIFICATION 67-06 M06-69936
MORPHOLOGY OF MARTENSITE OF HYPOEUTECTOID CARBON STEEL AFTER REAUSTENITIZING 67-06 M10-70357
FINE GRAIN SIZE IN BERYLLIUM BY SPLATCOOLING 67-07 M13-73764

GRAIN SIZE, HEATING EFFECTS
NATURE OF STRUCTURAL CHANGES IN THE INITIAL STAGES OF DECOMPOSITION OF SUPERSATURATED SOLID SOLUTION OF TITANIUM IN COBALT 67-02 M14-62081
INFLUENCE OF THE TIME AND TEMPERATURE OF HEATING ON THE GRAIN SIZE OF KH18N12T STEEL 67-04 M13-67982
INFLUENCE OF INDUCTION HEATING ON THE FINE STRUCTURE OF AUSTENITIC STAINLESS STEEL 67-05 M13-68379
PROBLEMS IN THE DIRECT DETERMINATION OF GRAIN SIZE AT ELEVATED TEMPERATURES 67-06 M13-72160
ANNEALING BEHAVIOR OF FINE-GRAINED NICKEL ELECTRODEPOSITS 67-07 M14-73452
RAPID HEATING OF STEEL FOR HOT WORKING. PT. 3. THE METALLURGICAL EFFECTS OF RAPID HEATING 67-11 M10-81364
THE EFFECT OF GRAIN SIZE ON THE CREEP STRENGTH OF ARMCO IRON MICROSPECIMENS 67-12 M17-82188

GRAIN SIZE, STRESS EFFECTS
THE EFFECT OF FABRICATION VARIABLES ON GRAIN SIZE OF MAGNOX AL80 FUEL CANS 67-02 M13-60231
DISCUSSION OF DYNAMIC RECOVERY DURING HOT WORKING 67-06 M13-71978

GRAIN SIZE, ULTRASONICS
IMPROVED CRYSTALLIZATION OF PURE ANTIMONY 67-09 M14-76805
HEREDITARY EFFECT OF ULTRASONIC TREATMENT ON THE GROWTH OF AUSTENITIC GRAINS 67-09 M14-77368

GRAIN STRUCTURE
AUGMENTED NATURAL CONVECTION AND EQUIAXED GRAIN STRUCTURE IN CASTING 67-01 M06-57427
STRUCTURAL STUDIES OF THE CARBIDES --FE,MN--3C AND --FE,MN--5C2 67-01 M13-57421
EFFECT OF PARTICLES IN CU-3.23 WT PER CENT CO ALLOY ON THE ANNEALING BEHAVIOR AFTER HEAVY ROLLING 67-01 M14-57415
THE BEHAVIOR OF CRYSTALS AND VOIDS IN CENTRALLY HEATED GREEN PELLETS 67-01 M14-57991
THE STRUCTURE OF SINTERED TUNGSTEN CARBIDE-COBALT ALLOYS 67-01 M14-58341
ON THE MECHANISM OF THE FORMATION OF ME23C6 CARBIDE DURING TEMPERING OF MOLYBDENUM STEEL 67-02 M14-59942
ANNEALING OF SILICON-IRON SINGLE CRYSTALS 67-02 M14-60608
BASIC PRINCIPLES OF HEAT TREATMENT OF STEELS 67-02 M14-60864
STUDY OF THE STRUCTURAL AND MECHANICAL CHARACTERISTICS OF COPPER AFTER AUSFORMING 67-02 M17-58897
MECHANICAL PROPERTIES AND STRUCTURE OF METAL-CERAMIC SHEET MOLYBDENUM FOR DEEP DRAWING 67-02 M17-59406
ON THE MECHANISM OF STRESS CORROSION 67-02 M18-60215
NEW TECHNIQUES IN METAL FORMING 67-03 M07-65166
BASIC PRINCIPLES OF STEEL HEAT TREATMENT. PT. 6. CARBON STRUCTURAL STEELS 67-03 M07-65180
COPPER PURITY INFLUENCE ON ITS POLYGONIZATION APTITUDE 67-03 M14-65552
EPITAXIAL GROWTH OF 3-5 MATERIALS 67-03 M16-65659
EXAMINATION OF POLYGONIZATION SUBSTRUCTURES BY X-RAY MICROSCOPY 67-04 M13-66310
STUDY OF THE MICROSTRUCTURE OF AL-CU-NI ALLOYS 67-04 M13-67159
RECRYSTALLIZATION AND GRAIN STRUCTURE IN RIMMED AND ALUMINUM-KILLED LOW-CARBON STEEL 67-04 M14-66930
EFFECT OF THE ADDITION OF SMALL AMOUNTS OF TITANIUM ON THE PROPERTIES AND STRUCTURE OF LOW-

CARBON AND LOW-ALLOYED STEELS
67-04 M17-67968
TEXTURE OF HOT ROLLED BAND OF SILICON IRON
67-05 M07-68473
EFFECT OF VIBRATION ON PROPERTIES AND STRUCTURE OF BRAZED SEAMS 67-05 M11-69410
EFFECT OF ROLLING CONDITIONS ON THE GRAIN SIZE IN MG-ZR ALLOYS 67-06 M13-70209
ORIENTATION OF TWIN PARTICLES IN ROLLED ALUMINUM INGOTS 67-06 M13-70214
PREFERRED ORIENTATION AND DOMAIN STRUCTURE OF IRON FILMS DEPOSITED ON --100-- COPPER SUBSTRATES
67-06 M14-70992
STRUCTURE, CONDUCTIVITY AND HALL EFFECT OF ELECTRON BOMBARDMENT EVAPORATED SILICON FILMS ON SAPPHIRE
67-06 M15-72001
THE CRYSTALLOGRAPHY OF BERYLLIUM SHEET
67-07 M13-73757
FORMATION MECHANISM OF THE CARBIDE ME23C6 ON THE TEMPERING OF MOLYBDENUM STEEL
67-07 M14-72597
STRUCTURES AND MAGNETIC PROPERTIES OF GRAIN-ORIENTED 3.2 PER CENT SILICON-IRON
67-07 M15-73522
THE PREPARATION AND STRUCTURE OF ZRO2 SPHERES
67-08 M01-75993
THE USE OF X-RAY TOPOGRAPHY FOR THE OBSERVATION AND CHARACTERIZATION OF GROSS IMPERFECTIONS IN SAPPHIRE SINGLE CRYSTALS 67-08 M13-75995
BEHAVIOR OF SEVERAL RARE EARTH METAL OXIDE DISPERSIONS IN UO2 AT HIGH TEMPERATURE
67-08 M14-75605
NATURE OF FRACTURE OF ALUMINUM ALLOYS IN SOLID-LIQUID STATE 67-08 M17-75878
THE CRYSTALLOGRAPHY OF CEMENTITE PRECIPITATION IN THE BAINITE TRANSFORMATION 67-09 M13-77591
ELECTRON MICROSCOPY OF GRAIN STRUCTURE OF LOW DISORIENTATION 67-09 M13-78012
SEVENTH STATUS REPORT OF THE U. S. GOVERNMENT METALWORKING PROCESSES AND EQUIPMENT PROGRAM
67-10 M01-79734
CONTROLLED SOLIDFICATION 67-10 M06-79693
INVESTIGATION OF THE EXTRUDABILITY AND GRAIN COARSENING SUSCEPTIBILITY OF ALMGSI1 ALLOYS
67-10 M08-79383
OBSERVATIONS OF PRECIPITATION HARDENING DURING HIGH-TEMPERATURE POLYMORPHOUS TRANSFORMATION
67-10 M10-79225
EFFECTS OF VIBRATIONS ON THE PROPERTIES AND STRUCTURES OF BRAZED SEAMS 67-10 M11-78514
SUMMING DEVICE FOR AN X-RAY DIFFRACTION CAMERA
67-10 M13-79647
MODIFICATION OF THE MARTENSITIC HARDENING PROCESS IN STEEL 67-10 M14-78604
SURFACE ATTACK IN CARBONITRIDED INGOT IRON AND AISI 8620 STEEL 67-11 M10-80519
THE INFLUENCE OF A SUBGRAIN STRUCTURE ON PRECIPITATION-HARDENING AND NUCLEATION OF PRECIPITATES IN AN AL-ZN-MG ALLOY
67-11 M14-80105
TRANSFORMATIONS IN HEAT RESISTANT STEELS, AN ATTEMPT AT AN EQUILIBRIUM REPRESENTATION IN THE CARBIDE PHASES 67-11 M14-80334
GROWTH OF IRON-CARBON EUTECTIC 67-11 M14-81069
SILICEOUS MALLEABLE CAST IRON WITH A PEARLITIC GRAIN STRUCTURE 67-12 M06-82088
USE OF A HIGH-FREQUENCY SOURCE TO REVEAL THE METALLOGRAPHIC STRUCTURE OF AN ALLOY
67-12 M13-82507

GRAIN STRUCTURE, ALLOYING EFFECTS
STRUCTURE OF LIQUID ALUMINIUM-COPPER ALLOYS
67-10 M13-78603
INVESTIGATIONS OF THE STRUCTURE OF CONTINUOUSLY CAST ALMGSI1 - ALLOYS WITHOUT AND WITH ADDITION OF MANGANESE 67-10 M14-79085
AL-SI CASTING ALLOYS WITH HIGH-SI CONTENT
67-11 M06-80459

GRAIN STRUCTURE, COOLING EFFECTS
SOLIDIFICATION OF HIGHLY UNDERCOOLED CASTINGS
67-10 M14-79294

GRAIN STRUCTURE, HEATING EFFECTS
STUDY OF THE ISOTHERMAL SOFTENING PROCESSES OCCURRING IN UNDOPED TUNGSTEN WIRE --0.38 MM--
67-05 M13-69860
TRANSMISSION ELECTRON MICROSCOPIC STUDIES OF UNDOPED TUNGSTEN WIRE --0.38 MM-- ANNEALED ISOTHERMALLY AT 1180 C 67-05 M13-69861
METALLURGICAL ASPECTS OF HEAT TREATMENT OF LARGE STEEL FORGINGS 67-07 M10-74170
CHANGE IN THE FINE STRUCTURE OF AUSTENITE DURING THERMAL STRENGTHENING 67-11 M14-80731

GRAIN STRUCTURE, IMPURITY EFFECTS
DEFECTS IN DOPED TUNGSTEN SEEN WITH THE FIELD-ION MICROSCOPE 67-06 M13-71062

GRAIN STRUCTURE, PRESSURE EFFECTS
CHARACTERISTICS OF EXTRUDING AND SINTERING REDUCED COPPER POWDERS 67-09 M09-76566

GRAIN STRUCTURE, STRESS EFFECTS
RECOVERY AND RECRYSTALLIZATION OF ALUMINIUM DURING EXTRUSION 67-08 M14-75136

GRAIN SUB BOUNDARIES
ON THE OBSERVATION OF GHOST BOUNDARIES PRODUCED BY GRAIN GROWTH IN DILUTE CADMIUM ALLOYS
67-01 M14-57431
IMPROVING THE PRECISION OF THE CRYSTALLOGRAPHIC ORIENTATION AND RECIPROCAL DISORIENTATION OF MICROPARTICLES IN AN ELECTRON MICROSCOPIC OBJECT
67-03 M13-65603
COPPER PURITY INFLUENCE ON ITS POLYGONIZATION APTITUDE 67-03 M14-65552
DISLOCATION ARRANGEMENT IN MATERIALS DEFORMED AT HIGH VELOCITY 67-07 M13-74274
EFFECT OF GRIP STRESSES ON DISLOCATION CONFIGURATION AFTER PLASTIC DEFORMATION
67-07 M14-72644
IMPROVED DETERMINATION ON THE CRYSTALLOGRAPHIC ORIENTATION AND MUTUAL DISORIENTATION OF MICROSCOPIC SECTIONS OF AN ELECTRON-MICROSCOPE OBJECT 67-08 M13-74528
ELECTRON TRANSMISSION MICROSCOPY OF NIAL
67-08 M13-75219
SUBSTRUCTURES IN OXIDE SCALES ON NICKEL, COBALT, AND NICKEL-COBALT ALLOYS 67-09 M13-76620
STUDIES ON THE SUBSTRUCTURE DEVELOPED DURING CREEP DEFORMATION OF COPPER CRYSTALS
67-11 M13-80953
ELECTRON MICROSCOPIC STUDY OF SUBSTRUCTURE DEVELOPED AROUND FATIGUE CRACKS
67-11 M17-81066

GRAIN SUB BOUNDARIES, STRESS EFFECTS
DISCUSSION OF DYNAMIC RECOVERY DURING HOT WORKING
67-06 M13-71978

GRAINING
SEE GRANULATION

GRANULAR MATERIALS
COMPARISON OF PARTICLE SIZE ANALYSIS METHODS
67-05 M19-69572
GRANULAR METAL FILLER METALS FOR ARC WELDING
67-06 M11-71680

GRANULATION
GRANULATION OF YAGERSK TITANIUM CONCENTRATES
67-04 M02-66822
COARSENING A TITANIUM POWDER 67-04 M09-67836
GRANULATION OF FINE-GRAINED MATERIALS BY VIBRATION
67-06 M02-72102

GRANULES
SEE GRANULAR MATERIALS

GRAPHIC METHODS
A GRAPHICAL METHOD FOR INDEXING X-RAY POWDER PHOTOGRAPHS OF COMPLEX SUPERLATTICE STRUCTURES IN ALLOYS 67-04 M13-66899

GRAPHICAL ANALYSIS
SEE GRAPHIC METHODS

GRAPHITE
CONSUMPTION OF ELECTRODES IN ARC FURNACE
67-04 M04-66210
CHARACTERIZATION AND AVAILABILITY OF GRAPHITE PRODUCTS 67-09 M05-77134
CARBON AND GRAPHITE MATERIALS FOR SEALS, BEARINGS, AND BRUSHES 67-09 M20-77136
GRAPHITE 67-12 M01-83003
NEW DEVELOPMENTS IN GRAPHITE WHEEL ELECTROLYTIC GRINDING 67-12 M08-82907

GRAPHITE, ABRASION
ORBITAL ABRASION SHAPES GRAPHITE ELECTRODES
67-09 M08-76734

GRAPHITE, ADSORPTION
THE ADSORPTION OF HELIUM, ARGON AND NITROGEN ON GRAPHITE 67-10 M14-78499

GRAPHITE, ALLOYING ADDITIVE
MONEL METAL-BASE POWDER COMPOSITE COMPACTING MATERIAL 67-08 M09-74913

GRAPHITE, ATOMIC PROPERTIES
ELECTRON SPIN RESONANCE IN NEUTRON-BOMBARDED GRAPHITE 67-10 M16-78905

GRAPHITE, BAKING
AUTOCLAVE BAKING OF CARBON-GRAPHITE MATERIALS
67-02 M05-61283

GRAPHITE, BENEFICIATION
FLOTATION OF COMPOSITE GRAPHITE NICKEL ORES
67-11 M02-81505

GRAPHITE, BONDING
ROLE OF CAPILLARY EFFECTS IN DISTRIBUTION OF LIQUID BINDERS IN CARBON-GRAPHITIC PRESSING
67-06 M09-71463

GRAPHITE, BRAZING
BRAZED GRAPHITE-METAL COMPOSITES FOR SPACE RADIATORS 67-04 M11-66386
BRAZING OF GRAPHITE AND SOME OTHER MATERIALS
67-10 M11-78406

GRAPHITE, COATING
PLASMA AND DIFFUSION COATINGS ON GRAPHITE
67-02 M12-61630
THE SINTERING OF GRAPHITE POWDERS DURING CHEMICOTHERMAL TREATMENT WITH CARBIDE-FORMING ELEMENTS 67-04 M12-67336
UNIFORM SILICON COATINGS ON GRAPHITE BY CHEMICAL VAPOR DEPOSITION 67-09 M12-77141
FORMATION OF COATINGS DURING METALLIZING OF TUNGSTEN ONTO GRAPHITE 67-10 M12-78405

GRAPHITE, COATINGS
A MICRORADIOGRAPHIC TECHNIQUE FOR DETERMINING DENSITIES OF PYROLYTIC-CARBON COATINGS
67-02 M15-59056
CARBON-COATED CARBIDE PARTICLES FOR NUCLEAR FUEL ELEMENTS 67-02 M16-60713

GRAPHITE, COMPOSITE MATERIALS
CERTAIN CONDITIONS FOR THE PREPARATION AND ETCHING OF THIN SECTIONS OF METAL-GRAPHITE COMPOSITIONS
67-02 M09-61794
COMPARATIVE INVESTIGATION OF THE PROPERTIES OF NICKEL-GRAPHITE COMPOSITES CONTAINING CARBONYL NICKEL OR ELECTROLYTIC NICKEL
67-04 M09-66257
A COMPARATIVE INVESTIGATION OF THE PROPERTIES OF NICKEL-GRAPHITE MATERIALS FROM ELECTROLYTIC AND CARBONYL NICKEL POWDERS 67-10 M09-78989

GRAPHITE, CORROSION
EXPERIMENTS ON GAS PROTECTION OF POROUS REFRACTORY MATERIALS AGAINST OXIDATION AND EROSION IN PLASMA FLOWS 67-08 M09-74315
APPLICATION OF REFRACTORY COMPOUNDS IN PRODUCTION OF CHLORINE AND CAUSTIC 67-10 M18-79342

GRAPHITE, CRYSTAL DEFECTS
ELECTRON MICROSCOPIC IMAGES OF DISLOCATION RIBBONS
67-02 M13-61512

GRAPHITE, CRYSTAL GROWTH
PYROLYTIC MATERIALS 67-02 M14-60711
SCANNING ELECTRON MICROSCOPY OF GRAPHITE GROWTH IN IRON AND NICKEL ALLOYS 67-03 M14-65883

GRAPHITE, CRYSTAL LATTICES
THERMAL BEHAVIOR OF STACKING FAULTS IN GRAPHITE PLATELETS 67-02 M13-61080
ISOTHERMAL ANNEALING STUDIES ON VACANCY AND INTERSTITIAL LOOPS IN SINGLE CRYSTAL GRAPHITE
67-02 M14-60813
THE INTERACTION BETWEEN DISLOCATION LOOPS AND STRAIGHT DISLOCATIONS IN AN ANISOTROPIC MATERIAL, GRAPHITE 67-05 M13-68758
THE BURGERS VECTOR OF DISLOCATION LOOPS IN GRAPHITE
67-06 M13-71287
MULTI-LAYER VACANCY LOOPS IN GRAPHITE
67-07 M13-73148
INTERSTITIAL LOOPS IN GRAPHITE, THEIR MOTION AND THEIR EFFECT ON ELASTIC MODULUS
67-10 M13-78915
INVESTIGATION OF THE STRUCTURE OF THIN FILMS OF LOW-TEMPERATURE PYROLYTIC GRAPHITE BY ELECTRON DIFFRACTION 67-10 M13-79244
CRYSTAL STRUCTURE OF GRAPHITE IN CAST IRON BY X-RAY DIFFRACTION 67-12 M13-82602

GRAPHITE, DIFFUSION
AUTORADIOGRAPHS IN PYROLYTIC GRAPHITE
67-02 M13-61084
DIFFUSION OF FISSION PRODUCTS IN CERAMIC FUELS
67-08 M14-74418
STRUCTURAL DEPENDENCE OF THE TRACER-LEVEL DIFFUSION OF THORIUM IN PYROLYTIC CARBONS
67-12 M14-82370

GRAPHITE, DISSOLVING
FORMATION OF AUSTENITE IN FERRITIC MALLEABLE IRON
67-02 M14-61749

GRAPHITE, ELECTRICAL PROPERTIES
MEASUREMENT OF THE SHUBNIKOVDE HAAS EFFECT IN GRAPHITE AT PRESSURES UP TO 8 KBAR
67-10 M15-79466

GRAPHITE, ELECTRODES
DUPLICATING THE GRAPHITE ELECTRODE
67-01 M08-58679
DEVELOPMENTS IN SPARK MACHINING
67-06 M08-72134
CARBORUNDUM ENTERS GRAPHITE ELECTRODE FIELD--UNVEILS NEW PLANT 67-09 M08-77151
GRAPHITE-ELECTROLYTIC ANODES 67-09 M14-77135
ALUMINUM CELL CATHODES 67-09 M20-77137
GRAPHITE AS CATHODE MATERIAL FOR THE PRODUCTION OF HIGH-PURITY METALS 67-11 M03-81433

GRAPHITE, FIBER METALLURGY
FILAMENT-REINFORCED REFRACTORY METALS
67-07 M09-73360

GRAPHITE, FUEL INJECTION
DEOXIDATION BY PNEUMATIC INJECTION OF GRAPHITE
67-07 M04-73095

GRAPHITE, HEAT TREATMENT
IMPROVEMENT OF THE WEAR RESISTANCE OF SPHEROIDAL GRAPHITE CAST IRON BY IONITRIDING
67-04 M10-68128

GRAPHITE, LUBRICANTS
IMPROVING FRICTIONAL BEHAVIOR WITH SOLID FILM LUBRICANTS 67-03 M05-65432

GRAPHITE, MACHINING
MACHINING OF GRAPHITE 67-08 M08-75799

GRAPHITE, MAGNETIC PROPERTIES
DIAMAGNETIC SUSCEPTIBILITY AND LINEAR THERMAL EXPANSION OF GRAPHITIZED CARBONS
67-02 M15-62130

GRAPHITE, MECHANICAL PROPERTIES
CENTRIFUGAL MACHINE SPEEDS CREEP TESTING
67-02 M17-59459
OXIDATION-RESISTANT GRAPHITE-BASE COMPOSITES
67-02 M17-60714
REVIEW OF SELECTED PROPERTY DATA
67-02 M17-60715
THE EFFECT OF POROSITY AND CRYSTAL ORIENTATION ON THE YOUNGS MODULUS OF ARTIFICIAL GRAPHITE
67-03 M17-65853
ON THE DUCTILE BEHAVIOR OF NOMINALLY BRITTLE MATERIALS DURING EROSIVE CUTTING
67-03 M17-65936
IMPURITY-DOPE EFFECTS ON THE ANELASTICITY OF GRAPHITE 67-05 M17-69292
A METHOD FOR MEASURING THE PLASTICITY AND STRENGTH OF LOW-PLASTICITY MATERIALS 67-05 M17-69614
MECHANICAL PROPERTIES OF NEUTRON-IRRADIATED PYROLYTIC CARBONS 67-06 M17-70887
THE STRESS DEPENDENCE OF THE CREEP RATE OF TWO COMMERCIAL GRAPHITES 67-09 M17-77139
ON THE MECHANISMS OF HIGH-TEMPERATURE PLASTIC DEFORMATION IN PYROLYTIC CARBONS
67-09 M17-77140
A DETERMINATION OF THE FRACTURE TOUGHNESS OF EGCR-TYPE AGOT GRAPHITE 67-09 M17-77469
GRAPHITE 67-11 M16-80466
THE ELASTIC CONSTANTS OF REACTOR GRAPHITES
67-12 M17-82548
MECHANICAL PROPERTIES OF METAL IMPREGNATED GRAPHITES 67-12 M17-82811
WEAR OF A GRAPHITE ELECTRODE IN AN ELECTRIC ARC
67-12 M17-83449

GRAPHITE, MOLDS
GRAPHITE MOLDS IN THE CONTINUOUS CASTING OF NONFERROUS METALS 67-05 M03-68925
AEROSPACE CASTINGS PRODUCED FROM MAGNESIUM-LITHIUM-SILICON ALLOY 67-05 M06-68684
SOME PROBLEMS IN THE MELTING AND CASTING OF URANIUM AND ITS ALLOYS 67-10 M06-79564

GRAPHITE, NONDESTRUCTIVE TESTING
INDUCTIVE METHOD FOR THE CONTROL OF POWDER COMPOSITE PRODUCTS 67-08 M19-74919
NONDESTRUCTIVE DETERMINATION OF MECHANICAL PROPERTIES OF REFRACTORY MATERIALS
67-08 M19-75522

GRAPHITE, OPTICAL PROPERTIES
OPTICAL DENSITY AND THICKNESS OF GRAPHITE LAMELLAE
67-02 M15-61076

GRAPHITE, PHASE TRANSFORMATIONS
THE PHENOMENA OF GRAPHITE PRECIPITATION OF CALCIUM GRAPHITE STEEL 67-11 M14-81058
THE PROCESS OF GRAPHITE PRECIPITATION OF CALCIUM GRAPHITE STEEL 67-11 M14-81059

GRAPHITE, PHASES /STATE OF MATTER/
SOLID SOLUTION OF BORON IN GRAPHITE
67-07 M14-72827

GRAPHITE, PHYSICAL PROPERTIES
MODERN CERAMICS--SOME PRINCIPLES AND CONCEPTS
67-02 M05-60701

PYROLYTIC GRAPHITE 67-10 M15-79953
WETTABILITIES OF GRAPHITE MATERIALS BY MELTS OF THE SYSTEM, NA3ALF6-ALF-MGCL2, AND THEIR ELECTRICAL CONDUCTIVITIES 67-12 M03-83458
GRAPHITE. PROGRESS OF A BLACK ART 67-12 M15-82997
CYCLOTRON RESONANCE IN SINGLE CRYSTAL GRAPHITE AT 72 GHZ 67-12 M16-81849

GRAPHITE, POWDER METALLURGY
CHANGES IN THE PROPERTIES OF SINTERED CONTACT MATERIALS 67-04 M09-66267
REGULARITIES OF STRUCTURE FORMATION DURING THE SINTERING OF IRON-GRAPHITE COMPOSITIONS 67-04 M09-67337
SOME REGULARITIES GOVERNING THE CHANGE IN THE PROPERTIES OF CONTACT MATERIALS MANUFACTURED BY POWDER METALLURGY TECHNIQUES 67-10 M09-78999
ROLE OF CAPILLARY EFFECTS IN THE DISTRIBUTION OF LIQUID BINDERS IN CARBON-GRAPHITE COMPACTS 67-12 M09-82784

GRAPHITE, PRECIPITATION
THEORETICAL ANALYSIS ON THE DILATOMETER CURVES OF CAST IRON 67-06 M14-70585

GRAPHITE, RADIATION EFFECTS
CONFIGURATION OF INTERSTITIAL ATOMS IN IRRADIATED GRAPHITE 67-03 M15-65918

GRAPHITE, REACTIONS /CHEMICAL/
THE COMPATIBILITY OF GRAPHITE WITH CESIUM 67-06 M14-71056
FORMATION MECHANISM AND STRUCTURAL FEATURES OF PYROLYTIC GRAPHITE 67-08 M14-74417
KINETICS OF THE REACTION OF IRON, NICKEL AND COBALT OXIDES WITH GRAPHITE 67-11 M14-81372

GRAPHITE, REACTIONS /NUCLEAR/
MEASUREMENT OF NEUTRON SLOWING DOWN TIME IN GRAPHITE 67-08 M16-75606
STUDIES OF CERAMIC FUELS WITH THE USE OF FISSION GAS RELEASE LOOP. PT. 1. FISSION GAS RELEASE FROM UO2-GRAPHITE MIXTURE DURING IRRADIATION 67-08 M16-75804

GRAPHITE, SPHEROIDIZING
ELECTRON MICROSCOPE STUDY OF THE DIFFERENT STAGES OF CRYSTALLIZATION OF SPHERULITES AND FLOCCULAR GRAPHITE IN THE HARD ALLOY NI-C 67-02 M14-61672
THE INTERACTION OF GRAPHITE WITH POWDERS OF VARIOUS ELEMENTS DURING EXTRUSION 67-08 M09-75452

GRAPHITE, SURFACE PROPERTIES
THE ADSORPTION OF CARBON DIOXIDE ON CARBON SOLIDS. PT. 1. GRAPHITE AND DIAMOND AT 0 K 67-05 M15-69597

GRAPHITE, THERMAL PROPERTIES
THE ANNEALING OF IRRADIATION DAMAGE IN GRAPHITE 67-02 M15-59054
LOW-TEMPERATURE SPECIFIC HEAT AND DENSITY OF STATES OF BORONATED GRAPHITE 67-03 M15-65034
THE HIGH TEMPERATURE EVALUATION OF AEROSPACE MATERIALS 67-03 M17-65935
MEASURING THE THERMAL CONDUCTIVITY COEFFICIENTS AT HIGH TEMPERATURES OF HEAT RESISTANT MATERIALS 67-06 M15-71827
THE PROPERTIES OF ELECTRODE GRAPHITE AND THEIR EFFECT ON THE USE OF ELECTRODES IN ARC FURNACES. PT. 1. THE TEMPERATURE DEPENDENCE OF VARIOUS PROPERTIES 67-08 M15-75111
THE PROPERTIES OF ELECTRODE GRAPHITE AND THEIR EFFECT ON THE USE OF ELECTRODES IN THE ELECTRIC ARC FURNACE. PT. 2. TEMPERATURE DISTRIBUTION IN ELECTRODES USED IN ELECTRIC ARC FURNACES 67-08 M19-75112
FORMULATION AND RAW MATERIALS EFFECTS ON THE HIGH-TEMPERATURE PROPERTIES OF GRAPHITE 67-09 M15-77138

GRAPHITE, TRANSPORT PROPERTIES
EFFECT OF CARRIER-CARRIER SCATTERING ON THE HALL EFFECT IN GRAPHITE 67-04 M16-66763

GRAPHITE, WELDING
WELDING CARBON-GRAPHITE MATERIALS 67-05 M11-69411
THE WELDING OF GRAPHITIC CARBON SUBSTANCES 67-10 M11-78515

GRAPHITIC STRUCTURE
SEE ALSO FLAKE GRAPHITIC STRUCTURE
NODULAR GRAPHITIC STRUCTURE
PHOTO-DENSITOMETRIC AND STATISTICAL ANALYSIS OF CAST IRON STRUCTURE 67-02 M19-58969
HETEROGENEOUS NUCLEATION OF NODULAR CAST IRON 67-05 M06-68456
TOUGHNESS OF FLAKE-GRAPHITE CAST IRONS AS AN INDEX OF QUALITY, AND NEW METHODS FOR IMPROVING THE TOUGHNESS. PT. 2 67-06 M17-71708
HIGH-SPEED GRAPHITIZATION NORMALIZING OF HIGH-DUTY IRON CASTINGS IN A FLUIDIZED BED 67-07 M10-73041
THE WEAR RESISTANCE OF CAST IRON 67-07 M17-74268
GRAPHITIZING CONDITION AND STRUCTURAL CHANGE OF CALCIUM GRAPHITE STEEL 67-09 M14-78245
EFFECTS OF CARBON CONTENT ON THE PROPERTIES OF TUNGSTEN CARBIDE-TANTALUM CARBIDE-10 PER CENT COBALT CEMENTED CARBIDE 67-10 M09-79978
RELATIONSHIP BETWEEN MICROSTRUCTURE AND STRESS-STRAIN CURVE OF GRAY CAST IRON 67-12 M17-82451

GRAPHITIC STRUCTURE, ALLOYING EFFECTS
THE MAURER DIAGRAM, ITS ERRORS AND EVOLUTION 67-05 M13-69148

GRAPHITIZATION
COMPLEX MICROALLOYING OF CUPOLA MALLEABLE IRON FOR SMALL-SCALE PRODUCTION 67-01 M06-57325
RAPID GRAPHITIZING NORMALIZATION OF CASTINGS OF HIGH-STRENGTH CAST IRON IN A FLUID BED 67-01 M10-57319
EFFECT OF COPPER ON PRIMARY STRUCTURE OF CAST IRON 67-01 M14-57324
ISOTHERMAL TRANSFORMATION OF AUSTENITE IN ANNEALED MAGNESIUM IRON 67-01 M14-57468
ON THE LIMITING CHAIN OF THE GRAPHITIZATION OF WHITE CAST IRON 67-01 M14-57469
THE EFFECT OF CARBON ON THE PROPERTIES OF 25CR-20NI HEAT RESISTING STEEL 67-01 M17-58241
AN INOCULANT FOR CAST IRON 67-02 M06-59652
EFFECT OF RAW IRON MATERIAL, MASS EFFECT AND RESIDUAL MG ON THE MANUFACTURE OF NODULAR GRAPHITE CAST IRON BY MG AND RARE EARTH ALLOYS 67-02 M06-60149
MECHANISM OF DENODULARIZER ACTION IN MAGNESIUM-TREATED CAST IRON 67-02 M06-61012
CHANGE IN THE LINEAR DIMENSIONS OF CARBON MATERIALS DURING GRAPHITIZATION 67-02 M09-60569
MECHANISM OF GRAPHITE FORMATION ON SURFACE OF HYPEREUTECTOID STEEL 67-02 M10-60069
THE NATURE OF THE EPSILON PHASE IN ALUMINUM CAST IRONS 67-02 M13-59672
INFLUENCE OF BORON AND ALUMINUM ON GRAPHITIZING OF MALLEABLE IRON 67-02 M14-62006
INDUSTRIAL GRAPHITIZATION WITHOUT USE OF CARBON FILLER AS AN ELECTRIC RESISTANCE ELEMENT 67-02 M14-62219
DISTRIBUTION OF Y90 IN CAST IRONS WITH VARIOUS FORMS OF GRAPHITE INCLUSIONS 67-02 M19-61808
SCANNING ELECTRON MICROSCOPY OF GRAPHITE GROWTH IN IRON AND NICKEL ALLOYS 67-03 M14-65883
STUDY OF THE PRODUCTION OF PEARLITIC MALLEABLE IRON 67-04 M06-66097
THERMODYNAMIC BASIS OF THE GRAPHITIZATION OF GRAY CAST IRON. PT. 1 67-04 M06-66098
DILATOMETRIC AND RESISTOMETRIC STUDIES OF WHITE CAST IRON AT SUBCRITICAL TEMPERATURES 67-04 M06-66948
GRAPHITIZATION OF WHITE CAST IRON 67-04 M14-67620
TRANSITION CARBIDES OBSERVED IN FORMATION OF GRAPHITE IN GRAY IRON 67-04 M14-67748
PRODUCTION OF PEARLITIC MALLEABLE CAST IRON WITH ADDITIONS OF BISMUTH AND BORON 67-05 M06-68459
QUANTITATIVE INVESTIGATION OF THE EFFECT OF VARIOUS FACTORS ON THE GRAPHITIZATION OF MALLEABLE CAST IRON 67-05 M14-68597
THE PHYSICAL NATURE OF THE PROCESS ACCELERATING THE GRAPHITIZATION OF MALLEABLE CAST IRON 67-05 M14-68736
DILATOMETRIC METHOD OF INVESTIGATING FERRITE FORMATION IN PIG IRON CONTAINING SPHEROIDAL GRAPHITE 67-06 M14-70200
ISOTHERMAL AUSTENITE TRANSFORMATIONS IN ANNEALED MAGNESIUM-TREATED IRON 67-06 M14-70756
KINETICS OF AND LIMITING FACTOR IN THE GRAPHITIZATION OF WHITE IRON 67-06 M14-70757
COMPLEX MICRO-ALLOYING OF CUPOLA MALLEABLE IRON IN SMALL-BATCH PRODUCTION 67-07 M06-73047
HIGH-SPEED GRAPHITIZATION NORMALIZING OF HIGH-DUTY IRON CASTINGS IN A FLUIDIZED BED 67-07 M10-73041
BEHAVIOR OF CARBIDE AND GRAPHITE IN STEEL DURING

GRAPHITIZATION

GRAPHITIZATION 67-08 M10-74937
COMBINED ACTION OF SURFACE-ACTIVE AGENTS ON THE NUMBER OF GRAPHITIZATION NUCLEI IN CUPOLA MELTED MALLEABLE IRON 67-08 M14-74546
NEUTRALIZATION OF CHROMIUM IN MALLEABLE CAST IRON 67-08 M14-74547
INFLUENCE OF STRUCTURAL IMPERFECTIONS ON THE GRAPHITIZATION OF WHITE CAST IRON AND STEEL 67-08 M14-76032
INFLUENCE OF BORON AND ALUMINIUM ON THE GRAPHITISATION OF MALLEABLE CAST IRON 67-08 M14-76089
STUDY OF IRREGULARITY OF DEFORMATION IN STEEL BY THE GRAPHITIZATION METHOD 67-08 M17-75474
MECHANISM BY WHICH CENTERS OF GRAPHITIZATION ARE INITIATED WHEN WHITE CAST IRON IS INOCULATED WITH ALUMINUM AND BORON 67-09 M14-76985
THE PART PLAYED BY NITROGEN AND HYDROGEN IN THE FORMATION OF CENTERS OF GRAPHITIZATION IN CAST GRAPHITIZED STEEL 67-09 M14-76987
ACTIVATION ENERGY AND FACTOR, DETERMINING GRAPHITIZATION OF WHITE CAST IRON 67-09 M14-77280
INFLUENCE OF CERIUM, NEODYMIUM, PRASEODYMIUM, LANTHANUM AND ALUMINUM ON THE STRUCTURE OF CAST IRON 67-09 M14-77421
GRAPHITIZING CONDITION AND STRUCTURAL CHANGE OF CALCIUM GRAPHITE STEEL 67-09 M14-78245
DISTRIBUTION OF Y90 IN CAST IRONS CONTAINING GRAPHITE PARTICLES OF DIFFERENT SHAPES 67-09 M19-78080
OXYGEN, OXIDES, SUPERHEATING AND GRAPHITE NUCLEATION IN CAST IRON 67-10 M01-79291
THE GRAPHITIZATION OF DIAMONDS IN THE PRODUCTION OF DIAMOND TOOLS 67-10 M09-78789
EFFECTS OF SHOCK PLASTIC DEFORMATION ON THE PHASE CHANGES AND STRUCTURAL TRANSFORMATIONS IN STEELS 67-10 M14-78348
DILATOMETRIC RESEARCH INTO THE KINETICS OF GRAPHITIZATION WHEN WHITE IRON IS ANNEALED TO PRODUCE MALLEABLE IRON 67-10 M14-78351
THE ROLE OF SULFUR IN THE GRAPHITIZATION OF MALLEABLE CAST IRON 67-12 M06-82094
FOUNDRY TECHNIQUES 67-12 M06-82834
FORM OF GRAPHITE IN SULFUR-SATURATED MALLEABLE IRON 67-12 M14-81976
MORPHOLOGY OF THE FINE GRAPHITE EUTECTIC IN CERIUM CAST IRON 67-12 M14-82410
CONTRIBUTION TO THE STUDY OF MICROSEGREGATION IN FE-C CASTING ALLOYS 67-12 M14-83498
EFFECT OF IMPURITIES ON THE ANISOTROPY OF GRAPHITE CONDUCTIVITY AND GRAPHITIZATION 67-12 M15-81977
FACTORS OF THE ANTIFRICTION PROPERTIES OF GRAPHITIZED STEEL 67-12 M17-83034

GRAPHITIZATION, ALLOYING EFFECTS
STUDIES ON GRAPHITIZATION OF CONVENTIONALLY AND ISOTHERMALLY ANNEALED WHITE CAST IRONS 67-05 M14-69878
MECHANISM OF THE INFLUENCE OF DIFFERENT ELEMENTS ON THE GRAPHITIZATION OF CAST IRON 67-08 M14-74545
RESIDUAL BORON AS AN ALLOYING ELEMENT DURING THE INITIATION OF CENTERS OF GRAPHITIZATION IN WHITE CAST IRON CASTINGS 67-09 M06-76984
EFFECT OF ARSENIC ON THE PRIMARY CRYSTALLIZATION OF MAGNESIUM CAST IRON 67-12 M06-81975

GRAPHITIZATION, COMPOSITION EFFECTS
THE DETERMINING FACTOR OF THE FORMATION OF SPHEROIDAL GRAPHITE IN MALLEABLE IRON 67-07 M14-74045

GRAPHITIZATION, HEATING EFFECTS
NUCLEATION AND GROWTH OF GRAPHITE IN MALLEABLE CAST IRON 67-07 M14-73253
NODULAR GRAPHITE STEEL. EFFECT OF HEAT TREATMENT ON MECHANICAL PROPERTIES 67-08 M17-74426

GRAPHITIZATION, IMPURITY EFFECTS
ON THE GRAPHITIZATION OF IRON ALLOYS 67-02 M10-60074

GRAPHITIZATION, STRESS EFFECTS
INFLUENCE OF ULTRASOUND ON THE STRUCTURE OF ALLOYS 67-06 M14-70055
EFFECT OF ULTRASONIC VIBRATIONS ON THE STRUCTURES OF ALLOYS 67-10 M14-78801

GRATINGS /OPTICS/
SEE DIFFRACTION GRATINGS

GRAVIMETRIC ANALYSIS
ON THE P-T-C-REPRESENTATION OF THE NIOBIUM-OXYGEN AND TANTALUM-OXYGEN SYSTEMS 67-02 M13-61889
ELECTROTRANSPORT IN ALUMINIUM 67-02 M15-61894
ANALYSIS OF GOLD ALLOY PLATING SOLUTIONS 67-05 M12-68807
A COULOGRAVIMETRIC STUDY OF THE SINTERED SILVER ELECTRODE IN 1 MOLAR POTASSIUM HYDROXIDE 67-05 M14-68615
DETERMINATION OF THE EFFECTIVENESS OF INHIBITORS IN PICKLING SOLUTIONS 67-07 M12-72558
MICRO-THERMOBALANCE FOR THE ANALYSIS OF IRRADIATED NUCLEAR FUELS 67-07 M19-73153
COMPARATIVE INVESTIGATION OF METHODS TO DETERMINE THICKNESS OF ZINC COATS ON STEEL WIRE 67-09 M12-77194

GRAVITATION
FLOTATION OF GOLD FROM PURE QUARTZ ORES 67-07 M02-72777

GRAVITY
SEE GRAVITATION

GRAVITY CONCENTRATORS
SEE JIGS /CONCENTRATORS/

GRAVITY CONVEYORS, CASTING
CASTING CONVEYOR ROLLERS AT THE RATE OF 600 PER DAY 67-11 M06-80567

GRAVITY DIE CASTING
SEE PERMANENT MOLD CASTING

GRAY CAST IRON
SEE GRAY IRON

GRAY IRON
SEE ALSO NODULAR IRON

GRAY IRON, ALLOYING
DISTRIBUTION OF ELEMENTS WHICH GLOBULIZE GRAPHITE IN MICROVOLUMES OF CAST IRON 67-08 M04-76030

GRAY IRON, CASTING
EFFECT OF NITROGEN ON CHILLED GREY CAST IRON 67-01 M06-57498
INDUCTION FURNACE MELTING OF DUCTILE IRON 67-01 M06-58677
INFLUENCE OF GREEN MOLD PROPERTIES ON SHRINKAGE OF IRON CASTINGS 67-02 M06-61233
ON DIRECTIONAL FREEZING OF GRAY IRON 67-04 M06-67568
DIMENSIONAL AND WEIGHT ACCURACY OF HIGH-PRESSURE SQUEEZE MOULD CASTINGS 67-04 M06-67941
AN AUTOMATIC CASTING MACHINE FOR MULTI-LAYER AXIALLY SYMMETRICAL COMPONENTS 67-04 M06-67945
INFLUENCE OF GREEN MOLD PROPERTIES ON THE SHRINKAGE OF IRON CASTINGS 67-04 M06-68094
WHAT IS THE OUTLOOK FOR DIE CASTING FERROUS METALS 67-05 M06-68414
ON-LINE CUPOLA CONTROL WITH A COMPUTER 67-07 M06-73614
CERIUM-SILICON ALLOY REDUCES CHILL IN GRAY IRON 67-08 M06-75541
NOMOGRAPH FOR THE DETERMINATION OF GATE AREAS OF GRAY IRON CASTINGS 67-08 M06-75699
MACROSTRUCTURE OF PIPES CAST BY THE CENTRIFUGAL METHOD 67-08 M06-76038
EXPERIMENTAL STUDY OF THE VALIDITY OF CLASSICAL HYPOTHESES CONCERNING HEAT TRANSMISSION 67-08 M06-76231
INFLUENCE OF COPPER AND NICKEL ON THE STABLE AND METASTABLE EUTECTIC TEMPERATURES OF CAST IRON 67-09 M14-77837
EFFECT OF RISERING ON THE MICROPOROSITY OF IRON CASTINGS 67-10 M06-79560
CONTINUOUS GREY-IRON CASTING PRODUCES BETTER BARS AND SECTIONS 67-11 M04-80769
CASTING CONVEYOR ROLLERS AT THE RATE OF 600 PER DAY 67-11 M06-80567
INFLUENCE OF CHARGE MATERIALS ON THE FLUIDITY OF GREY IRON 67-12 M06-81880
CORRELATION BETWEEN CASTING YIELD AND THE GATING FACTORES FOR GRAY IRON CASTINGS 67-12 M06-83482

GRAY IRON, CASTINGS
INVESTIGATION OF THE PRESSURE TIGHTNESS OF GRAY CAST IRON 67-01 M15-57323
DETERMINATION OF TENSILE STRENGTH AND FATIGUE LIMIT OF GRAY CAST IRON 67-12 M17-82392
THE CRITERIA OF QUALITY IN GRAY IRON CASTINGS 67-12 M19-83223

GRAY IRON, CHEMICAL ANALYSIS
RAPID DETERMINATION OF SILICON IN GRAY IRON 67-01 M19-58359
THE EFFECT OF OXYGEN ADSORPTION ON THE OXYGEN ANALYSIS OF HIGH-CARBON IRON SPECIMEN CONTAINING GRAPHITE 67-02 M06-59124

PROCESS CONTROL ON THE POURING FLOOR
67-07 M06-73613
THE DETERMINATION OF TRACE ELEMENTS IN CAST IRON USING A DIRECT READING SPECTROMETER
67-08 M19-75585
GRAY IRON, COATING
AUTOMATIC METAL ARC HARD FACING IN AUSTRALIA
67-02 M12-60910
INVESTIGATION OF ENAMELABILITY OF DECARBURIZED CAST IRON 67-07 M12-73200
IMPROVING THE WEAR RESISTANCE OF PISTON RINGS BY PLASMA METALLIZING 67-08 M12-75429
GRAY IRON, COOLING CURVES
DETERMINING THE AMOUNT OF CARBON EQUIVALENT OF GRAY CAST IRON BY COOLING CURVES 67-06 M14-70296
GRAY IRON, CORROSION
EFFECT OF HEAT TREATMENTS INVOLVING HEATING THROUGH THE CRITICAL TEMPERATURE RANGE ON THE SUBSEQUENT SCALING AND GROWTH PROPERTIES OF FLAKE GRAPHITE CAST IRONS AT 400 AND 500 C 67-02 M18-60526
CORROSION OF CAST IRON IN CONCENTRATED SULFURIC ACID UNDER POTENTIOSTATIC CONDITIONS
67-03 M18-65996
HEAT RESISTING PROPERTIES OF THIN IRON CASTINGS
67-04 M18-67113
CORROSION RESISTANCE OF SOME METALS IN MOLTEN ALUMINUM 67-05 M18-69836
INFLUENCE OF ANTIMONY ON THE CORROSION RESISTANCE OF GREY IRONS 67-12 M18-81885
CORROSION RESISTANCE OF CERTAIN METALLIC MATERIALS IN MOLTEN ALUMINUM 67-12 M18-82269
GRAY IRON, CRYSTALLIZATION
INVESTIGATION OF THE HEAT OF CRYSTALLIZATION OF MOLTEN PIG IRONS 67-01 M14-57131
GRAY IRON, DIFFUSION
STUDY OF ADSORPTION OF OXYGEN IN GRAY IRON
67-02 M14-59730
GRAY IRON, EXTRUSION
HOT EXTRUSION OF CAST IRON 67-03 M07-65308
TEMPERATURE CONDITIONS OF THE STAMPING TOOL IN FLUID STAMPING 67-12 M08-82064
GRAY IRON, GRAPHITIZATION
TRANSITION CARBIDES OBSERVED IN FORMATION OF GRAPHITE IN GRAY IRON 67-04 M14-67748
GRAY IRON, HEAT TREATMENT
THE SULFIDIZING AND SELENIDIZING OF STEEL AND GRAY CAST IRON 67-02 M10-60502
SURFACE HEAT TREATMENT OF CAST IRON
67-03 M10-65179
STUDY OF THE FEASIBILITY OF REDUCING RESIDUAL STRESSES IN CASTINGS 67-06 M10-70297
A TECHNICAL AND ECONOMIC COMPARISON OF THE SURFACE-HARDENING OF GUIDEWAYS
67-06 M10-72054
HIGH-FREQUENCY HEATING AND QUENCHING OF FERRITIC-PEARLITIC GRAY CAST IRON 67-08 M10-76036
INVESTIGATION OF WARPAGE IN CAST IRON MACHINE STANDS 67-12 M10-81907
GRAY IRON, HEATING
INVESTIGATION OF PROCESSES OCCURRING IN HEATING OF IRON SHAVINGS 67-02 M02-59178
INVESTIGATION INTO THE PROCESSES TAKING PLACE DURING THE HEATING OF CAST IRON SWARF
67-10 M02-78887
GRAY IRON, INDUCTION HARDENING
HIGH-FREQUENCY HEATING AND QUENCHING OF FERRITIC-PEARLITIC GRAY CAST IRON 67-08 M10-76036
GRAY IRON, INOCULATION
INOCULATION OF GRAY CAST IRON. PT. 2
67-08 M06-75561
EFFECT OF CALCIUM AND ALUMINUM ON THE ACTIVITY OF IRON-SILICON AS INOCULANT FOR GRAY CAST IRON
67-10 M04-78482
GRAY IRON, LIQUID METALS
FERROUS METAL DIE CASTING PROVED FEASIBLE IN GE LABORATORY 67-03 M06-65469
GRAY IRON, MACHINING
GUN REAMING SIMPLIFIES VALVE PRODUCTION
67-01 M08-57230
EFFECT OF HEAT TREATMENT ON MACHINABILITY OF CAST IRON 67-01 M08-57440
DRILL HOLE QUALITY IN DRILLING WITH TWIST DRILLS
67-06 M08-70044
MATERIAL AND TECHNIQUE FACTORS IN THE MACHINING OF IRON CASTINGS. PT. 1 67-06 M08-72027
APPLICATIONS OF GUN REAMING IN VALVE PRODUCTION
67-07 M08-73126
ABRASIVE MACHINING--WHY AND WHEN
67-07 M08-73858
N. C. AND CONVENTIONAL MACHINING OF AUTOMATIC TRANSMISSION COMPONENTS 67-10 M08-79704
GRAY IRON, MECHANICAL PROPERTIES
EXPERIMENTAL INVESTIGATION OF THERMAL SHOCK BEHAVIOR IN CAST IRONS 67-01 M17-57596
THE ELASTIC BEHAVIOR OF GRAY CAST IRON. PT. 1. GENERAL AND EXPERIMENTAL PART
67-02 M17-60020
THE ELASTIC BEHAVIOR OF GRAY CAST IRON. PT. 2. THEORY 67-02 M17-60026
RESIDUAL STRESSES IN CAST BODIES
67-02 M17-60212
CORRELATIONAL RELATIONSHIP BETWEEN HARDNESS AND TENSILE STRENGTH DURING STRETCHING FOR HIGH-STRENGTH MAGNESIUM IRONS 67-02 M17-60672
TREATMENT OF CUPOLA IRON WITH FERROCERIUM
67-02 M17-61184
EFFECT OF ADDITIONS OF SULFUR ON THE WEAR RESISTANCE OF GRAY CAST IRON 67-02 M17-62277
INFLUENCE OF A PIG IRON CONTAINING VANADIUM AND TITANIUM ON THE SURFACE HARDENABILITY OF CAST IRON WITH FLAKE-TYPE GRAPHITE
67-04 M17-66183
EXAMPLES OF FRACTURES IN CASTINGS. INCIDENCE OF STRUCTURAL FEATURES 67-04 M17-66595
ELASTIC MODULUS OF GRAY CAST IRON
67-04 M17-67848
COMPARING THE PROPERTIES AND STRUCTURE OF GRAY IRON IN CASTINGS AND SPECIMENS 67-05 M06-69040
CONDITIONS LEADING TO FAILURE OF CAST IRON BRAKES
67-05 M17-69141
TEMPERATURE DEPENDENCE OF INTERNAL FRICTION IN GRAY CAST IRON 67-05 M17-69661
FATIGUE PROPERTIES OF CAST IRON IN RELATION TO GRAPHITE STRUCTURE 67-05 M17-69879
GRAY IRON CASTINGS FOR MAXIMUM MACHINABILITY
67-06 M17-70856
INOCULATION OF GRAY CAST IRON. PT. 1
67-06 M17-70857
TOUGHNESS OF FLAKE-GRAPHITE CAST IRONS AS AN INDEX OF QUALITY, AND NEW METHODS FOR IMPROVING THE TOUGHNESS. PT. 2 67-06 M17-71708
EFFECT OF CU IN GRAY CAST IRONS
67-06 M17-71980
ULTRASONIC EXAMINATION OF CAST IRON
67-07 M17-73254
MECHANICAL PROPERTIES, STRUCTURE AND INOCULATION TREATMENT OF ANTIMONY-BEARING CAST IRON
67-07 M17-73261
PRODUCTION OF CAST IRON WITH INCREASED STRENGTHS AND ELONGATION BY USE OF APPROPRIATE CHARGE MATERIALS AND ALLOYING ADDITIONS
67-08 M17-75031
THE INFLUENCE OF ALLOYING ELEMENTS ON THE PROPERTIES, ESPECIALLY TEMPERATURE ENDURANCE, OF CAST IRON WITH LAMELLAR GRAPHITE
67-09 M17-76519
THE INFLUENCE OF URANIUM ON THE PROPERTIES OF GRAY IRON 67-09 M17-77811
INFLUENCE OF COPPER UPON STRUCTURE AND MECHANICAL PROPERTIES OF GREY CAST IRON--RESULTS OF A SYSTEMATIC INVESTIGATION 67-10 M17-79404
INFLUENCE OF COPPER UPON STRUCTURE AND MECHANICAL PROPERTIES OF GREY CAST IRON--RESULTS OF A SYSTEMATIC INVESTIGATION 67-11 M17-80239
THE IMPORTANCE OF THE INTERNAL STRESS IN GRAY AND SPHEROLITIC CAST IRON 67-11 M17-80498
INTERNAL FRICTION IN GRAY CAST IRON
67-11 M17-81661
EFFECT OF TIN ON THE STRUCTURE AND PROPERTIES OF GRAY CAST IRON 67-12 M06-82098
INFLUENCE OF COPPER ON HARDENABILITY OF GRAY IRON
67-12 M10-82359
CALCULATING TEMPERATURE STRESSES IN PLATE-SHAPED CAST IRON CASTINGS 67-12 M17-81724
THE EFFECT OF STRUCTURAL MICROHETEROGENEITIES UPON THE STRENGTH OF PLATES WITH HYPERBOLIC NOTCHES
67-12 M17-82433
RELATIONSHIP BETWEEN MICROSTRUCTURE AND STRESS-STRAIN CURVE OF GRAY CAST IRON
67-12 M17-82451
FRICTIONAL AND WEAR RESISTANT BEHAVIOR OF A MACHINE TOOL SLIP-GUIDE 67-12 M17-82462
THE IMPORTANCE OF INTERNAL STRESS IN GRAY OR SPHEROIDAL CAST IRON 67-12 M17-82897
GRAY IRON, MELTING
EVALUATION OF THE QUALITY OF FLAKE GRAPHITE CAST IRON 67-01 M06-57616
THE CONSEQUENCES OF OVERHEATING ON THE PROPERTIES

GRAY IRON
OF GRAY IRONS 67-01 M06-58120
FUNDAMENTALS OF CALCULATING CUPOLA CHARGE COMPOSITION FOR UNALLOYED GRAY IRONS 67-02 M06-59080
USE OF CAST IRON SWARF IN CUPOLA MELTING 67-02 M06-61198
ENGINEERING GROUP INVEST IN AN AUTONOMOUS FOUNDRY 67-04 M06-66564
GRAY IRON, METAL WORKING
FUNDAMENTAL STUDIES ON LAPPING 67-12 M12-83597
GRAY IRON, MICROSCOPY
METALLOGRAPHIC INVESTIGATIONS WITH THE EMISSION ELECTRON MICROSCOPE 67-03 M13-65902
GRAY IRON, MICROSTRUCTURE
STUDY OF THE MICROSTRUCTURE OF GRAY CAST IRON CONTAINING DIFFERENT QUANTITIES OF PHOSPHORUS 67-01 M13-58162
THERMODYNAMIC BASIS OF THE GRAPHITIZATION OF GRAY CAST IRON. PT. 1 67-04 M06-66098
GRAY IRON IS A DIAMONDS BEST FRIEND 67-04 M08-66581
EFFECT OF CERTAIN ELEMENTS ON THE FORM OF GRAPHITE IN CAST IRON 67-05 M14-69880
THE STRUCTURE OF GRAY CAST IRON WITH DIFFERENT CONTENTS OF MANGANESE AND SULFUR 67-08 M06-74617
EFFECT OF NITROGEN ON CHILLED GREY CAST IRON 67-09 M13-78139
SEGREGATION OF ALLOYING INCLUSIONS IN GRAY CAST IRON 67-12 M14-82090
MORPHOLOGY OF THE FINE GRAPHITE EUTECTIC IN CERIUM CAST IRON 67-12 M14-82410
CONTRIBUTION TO THE STUDY OF MICROSEGREGATION IN FE-C CASTING ALLOYS 67-12 M14-83498
GRAY IRON, NONDESTRUCTIVE TESTING
NONDESTRUCTIVE TESTING OF GRAY CAST IRON 67-04 M19-67716
GRAY IRON, PHASE TRANSFORMATIONS
INFLUENCE OF COPPER ON EUTECTOID TRANSFORMATION IN GRAY CAST IRON 67-01 M14-57192
EFFECT OF THE HEATING TEMPERATURE ON THE STABILITY OF THE PHOSPHIDE EUTECTIC 67-01 M14-58159
EFFECT OF PHOSPHORUS ON THE STABILITY OF PEARLITE CEMENTITE IN GRAY CAST IRON 67-02 M14-58990
THERMOGRAPHIC DETERMINATION OF THE CARBON EQUIVALENT OF HYPOEUTECTOID CAST IRON 67-06 M14-70295
SINGULARITIES OF THE FORMATION OF GRAPHITE EUTECTIC IN GRAY CAST IRON 67-08 M14-76031
GRAY IRON, PHASES /STATE OF MATTER/
INFLUENCE OF VARIOUS ADDITIONS ON STRUCTURE OF GRAY CAST IRON 67-02 M14-62005
INFLUENCE OF ADDITIONS OF DIFFERENT ELEMENTS ON THE STRUCTURE OF GREY IRON 67-08 M14-76088
ISOTHERMAL TRANSFORMATIONS IN HYPOEUTECTIC GRAY IRON BETWEEN THE CRITICAL RANGE AND ROOM TEMPERATURE 67-09 M14-77670
GRAY IRON, PHYSICAL PROPERTIES
STUDY OF THE EFFECT OF CONSTANT SHEAR STRESS ON AMPLITUDE-DEPENDENT INTERNAL FRICTION 67-04 M15-66864
INVESTIGATION OF THE HYDRAULIC SOUNDNESS OF GREY CAST IRONS 67-07 M15-73045
THE CRYSTALLIZATION PRESSURE FACTOR IN THE PRESHRINKAGE EXPANSION OF CASTINGS 67-08 M14-74550
GRAY IRON, REACTIONS /CHEMICAL/
THE FORMATION OF MANGANESE SULFIDE IN GRAY CAST IRONS DURING SOLIDIFICATION 67-05 M06-68950
GRAY IRON, REFINING
MANGANESE LOSS IN CUPOLA MELTING 67-08 M06-74542
GRAY IRON, SOLIDIFICATION
EUTECTIC SOLIDIFICATION OF OXIDIZED CAST IRON 67-01 M14-58255
METALLURGY OF FEEDING GREY CAST IRON 67-04 M06-66890
GRAY IRON, WELDING
MAKING THE MOST OF HEAT TREATING EQUIPMENT 67-01 M10-58013
INFLUENCE OF COMPOSITION OF CAST IRON DEPOSIT WELDS ON ITS HEAT RESISTANCE 67-01 M12-57392
METHOD SELECTION AND VARIABLES FOR BUTT WELDING GRAY IRON 67-02 M11-60890
THERMAL CYCLE AND QUALITY OF WELD IN BUTT WELDING GRAY CAST IRON 67-02 M11-61263
THE INFLUENCE OF THE THERMAL CYCLE ON THE QUALITY OF RESISTANCE BUTT WELDS IN GREY IRON 67-05 M11-68263
AUTOMATIC BUILDUP OF BRASS 67-10 M11-78411
PROBLEMS IN THE ELECTROSLAG-COAT-WELDING OF CAST IRON 67-12 M11-81747
GRAY IRON, X RAY ANALYSIS
X-RAY STRESS MEASUREMENT OF GRAY IRON CASTING WITH FLAKE GRAPHITE AND MALLEABLE IRON CASTING 67-05 M17-68529
GREASES
GLOSS-BUFFING EFFECTS OF GREASE-BASE BUFFING COMPOUNDS ON 18 CR-8 NI STAINLESS STEEL 67-08 M12-74924
GREASES, COATINGS
TEMPORARY CORROSION PREVENTIVES 67-05 M18-68416
GREASING
SEE LUBRICATION
GREEN DENSITY
SEE COMPRESSIBILITY /POWDER/
GREEN SAND CASTING
DISCUSSION OF THE SCABBING TENDENCIES OF GREEN SAND 67-01 M06-58480
MANUFACTURE OF SPHEROIDAL GRAPHITE IRON CASTINGS IN A JOBBING FOUNDRY 67-06 M06-72186
GAS POROSITY IN STEEL CASTINGS 67-06 M06-72188
EFFECT OF CONSTRUCTIONAL AND TECHNOLOGICAL FACTORS ON THE STRENGTH AND RELIABILITY OF CASTINGS OF HIGH-QUALITY IRON 67-08 M06-74592
GREEN STRENGTH
INFLUENCE OF GREEN MOLD PROPERTIES ON THE SHRINKAGE OF IRON CASTINGS 67-04 M06-68094
HYDROSTATIC PRESSING OF POWDERS 67-07 M09-73861
GREY IRON
SEE ALSO GRAY IRON
GREY IRON, CHIPS
OXIDATION REDUCTION PROCESSES IN GRAY IRON CHIPS AT ELEVATED TEMPERATURES 67-04 M06-67940
GRIDS /TUBE COMPONENTS/
FUNDAMENTAL STUDY OF THE APPLICABILITY OF CARBIDES TO THE CONSTRUCTION OF HIGH-POWER TUBES 67-07 M20-73836
GRIDS /TUBE COMPONENTS/, NONDESTRUCTIVE TESTING
THE MAGNETOINDUCTIVE TESTING OF W AND MO WIRES AND RODS 67-07 M19-73195
GRIFFITH CRACK
SEE GRIFFITH IRWIN FRACTURE
GRIFFITH FRACTURE
SEE GRIFFITH IRWIN FRACTURE
GRIFFITH IRWIN FRACTURE
THE FRACTURING PROCESS IN METALS. PT. 1 67-05 M17-68717
CLEAVAGE CRACK PROPAGATION WITHIN CRYSTALS BY THE GRIFFITH MECHANISM VERSUS A DISLOCATION MECHANISM 67-06 M17-71090
A COMPARISON OF THE FRACTURE CRITERIA OF GRIFFITH AN BARENBLATT 67-08 M17-75778
PLASTIC FLOW OF MARTENSITE 67-09 M13-76594
GRINDERS
SEE GRINDING MILLS
GRINDING
SEE ALSO BELT GRINDING
CENTERLESS GRINDING
CYLINDRICAL GRINDING
ELECTRIC DISCHARGE GRINDING
ELECTROLYTIC GRINDING
GEAR GRINDING
PROFILE GRINDING
ROUGH GRINDING
SLOT GRINDING
SURFACE GRINDING
DIE PART OUTPUT DOUBLED WITH DE BEERS SYNTHETIC DIAMOND 67-01 M08-58787
TIME AND WHEEL SAVINGS IN ROUGH-GRINDING TUNGSTEN CARBIDE 67-01 M08-58788
PROGRESS IN THE UTILIZATION OF GRINDING-WHEELS IN THE FOUNDRY 67-02 M08-59093
JET WHEEL CLEANING SPEEDS GRINDING OF HIGH ALLOY MATERIALS 67-02 M08-60241
METAL CLADDING EXTENDS DIAMOND GRINDING WHEEL LIFE 67-02 M08-60886
SOME FACTORS AFFECTING SURFACE FINISH IN GRINDING 67-02 M08-60999
SYNTHETIC DIAMONDS AND THEIR APPLICATIONS IN MODERN SOVIET INDUSTRY 67-03 M08-65161
CAMSHAFT GRINDING BY NC 67-03 M08-65565
THE ROLE OF CHEMICAL REACTIONS IN THE PREPARATION OF METAL SURFACES BY ABRASION 67-03 M08-65596
THE GRINDING AND LAPPING OF SINTERED HARD MATERIALS

67-03 M08-65707
TANGENTIAL ROLLING INCREASES CRANKSHAFT LIFE
67-04 M08-66118
CONDITIONS AND METHODS FOR GRINDING CARBURIZED AND QUENCHED GEARS 67-04 M08-66348
THE FINE GRINDING OF SUPERFINISHING OF COLD-ROLLING ROLLS--A COMPARISON. PT. 1 67-04 M08-67187
SURFACE TREATMENT OF BASE METALS PRIOR TO ELECTROPLATING. PT. 2 67-04 M12-67054
COST-SAVING FACTORS IN GRINDING AND POLISHING WITH ABRASIVE BELTS 67-05 M08-68607
PINION OUTPUT DOUBLED WITH AUTOMATIC PLUNGE FORM GRINDING 67-05 M08-68662
ONE-SHOT MACHINING 67-05 M08-68789
SOME VIEWS CONCERNING CLEANING OF CASTINGS BY GRINDING 67-05 M12-68455
INFLUENCE OF DIAMOND GRINDING ON PHYSICAL AND MECHANICAL PROPERTIES OF T15K6 CERMET AND 40KH STEEL 67-05 M17-69013
THE GRINDING OF HIGH-CARBON FERROCHROME
67-06 M04-72300
WHEELS THAT MAKE THE WELDING WORLD GO ROUND
67-06 M08-70648
IN FOUNDRY GRINDING, HOW FAST IS TOO FAST
67-06 M08-70819
BILLET GRINDING 67-06 M08-70821
HIGH HP, NEW WHEEL CUT COST ON ROLL GRIND 40 PER CENT 67-06 M08-72028
WHICH DIAMOND WHEEL FOR SPACE AGE CERAMICS
67-06 M08-72029
PROPER FLUIDS MEAN BETTER QUARTZ GRIND
67-06 M08-72030
INVESTIGATION OF THE GRINDING PROCESS OF SINTERED STEEL 67-06 M09-72329
THE FUNDAMENTALS OF MECHANICAL GRINDING AND POLISHING 67-06 M12-72157
METHODS FOR METALLOGRAPHIC PREPARATION OF UO2 AND UO2CEO2 67-06 M13-71408
THE CREEP-FEED PLUNGE GRINDING OF TUNGSTEN CARBIDE WITH DIAMOND CUP WHEELS 67-07 M08-73075
INCREASED PRODUCTIVITY THROUGH THE USE OF ARMORED DIAMONDS 67-07 M08-73076
HIGH SPEED, HIGH PRESSURE GRINDING HIKES OUTPUT, WHEEL LIFE 67-07 M08-73798
QUALITY OF THE SURFACE LAYER WHEN GRINDING WITH A DIAMOND WHEEL WITH A BAKELITE BINDER
67-07 M08-74287
SOME ADVANCED MILLING HEAD DESIGNS AND THEIR PERFORMANCE 67-08 M08-74758
INCREASED PRODUCTION IN GRINDING THROUGH HIGH CUTTING SPEEDS 67-08 M08-75592
ABRASIVE SURFACE FINISHING 67-08 M12-74524
FINISHING TECHNIQUES FOR SPECIAL ROLLED STEEL
67-08 M12-75904
EFFECT OF HEAT TREATMENT ON MECHANICAL PROPERTIES OF ABRASIVE GRAIN 67-08 M17-75569
GRINDABILITY OF CERMETS WITH DIAMOND WHEELS
67-09 M08-76445
ACTUAL RESEARCH IN THE FIELD OF SURFACE FINISHING
67-09 M08-78017
FURTHER TECHNIQUES FOR IMPROVING THE FATIGUE STRENGTH OF WELDED JOINTS 67-09 M17-76652
GRINDING IN FOUNDRIES. PT. 1 67-10 M08-78788
THE GRINDING OF CARBIDE-TIPPED MACHINING TOOLS --TURNING TOOLS-- 67-10 M08-78790
THE NATURE OF THE GRINDING PROCESS
67-10 M08-78896
TECHNICAL FACTORS IN THE OPERATION OF GRINDING MACHINES 67-10 M08-78897
WHEEL-FLUID-WORK INTERACTIONS, OR THE PROBLEM OF INTERPRETING GRINDING TESTS 67-10 M08-78899
SURFACE INTEGRITY IN MACHINING AND GRINDING
67-10 M08-79515
PREPARATION OF POWDERS ON PLANETARY MILL
67-10 M09-79339
GRINDING AT HIGH CIRCUMFERENTIAL RATES
67-10 M12-79798
GRINDING IN THE CASTING PLANT 67-10 M12-79800
LARGE CAPACITY UNIVERSAL GRINDING MACHINE
67-11 M08-80350
THE THEORY OF GRINDING. PT. 1 67-11 M08-81697
EFFECTS OF GRINDING FLUIDS ON GRINDING PERFORMANCES IN FORCED INFEED PLUNGE GRINDING
67-12 M08-83545
FUNDAMENTAL STUDIES ON LAPPING 67-12 M12-83597
EFFECTS OF GRINDING VARIABLES ON SURFACE STRUCTURE OF HARDENED STEEL 67-12 M12-83599

GRINDING, AUTOMATION
HIGH-PRODUCTIVITY LINE MACHINES 28,000 VALVES A DAY
67-07 M08-73445
REFINEMENTS IN TANGENTIAL GRINDING EXTEND APPLICATION 67-09 M08-78273
AUTOMATIC ROLL GRINDERS FOR FLAT PRODUCTS MILLS
67-10 M08-78620

GRINDING, VIBRATION
VIBRATORY GRINDING AND VIBRATORY POLISHING OF STEEL IN METALLOGRAPHY. PT. 2
67-09 M08-78182

GRINDING /COMMINUTION/
EFFECT OF THE DURATION OF GRINDING ON THE ELECTROMAGNETIC PROPERTIES OF CARBONYL IRON POWDERS 67-02 M02-62103
BEHAVIOR OF GOLD DURING THE GRINDING PROCESS
67-02 M03-61601
PROBLEMS OF WET GRINDING, REPRESENTED AT BAUXITE CRUSHING 67-09 M02-77531
DRY GRINDING OF FERROMAGANESE IN A NITROGEN ATMOSPHERE 67-09 M09-78129
PHYSICAL AND MECHANICAL PROPERTIES OF BLENDED AND BALL-MILLED ALUMINIUM-ALUMINIUM OXIDE ALLOYS
67-09 M09-78261

GRINDING MACHINES /TOOLS/
WHAT ABRASIVE GRIT SIZE FOR MACHINING
67-01 M08-58571
PROGRESS IN THE UTILIZATION OF GRINDING-WHEELS IN THE FOUNDRY 67-02 M08-59093
THE QUESTION OF THE LIFE OF GRINDING WHEELS
67-03 M08-65726
PLUNGE CUT GRINDING OF TUNGSTEN CARBIDE WITH DIAMOND CUP WHEELS 67-06 M08-71184
THE CREEP-FEED PLUNGE GRINDING OF TUNGSTEN CARBIDE WITH DIAMOND CUP WHEELS 67-07 M08-73075
WHAT YOU CAN DO WITH ABRASIVE-BELT MACHINING. PT. 2 APPLICATIONS 67-09 M08-77699
TECHNICAL FACTORS IN THE OPERATION OF GRINDING MACHINES 67-10 M08-78897

GRINDING MILLS
SEE ALSO AUTOGENOUS MILLS
USE OF RADIOACTIVE TRACERS IN STUDYING WEAR OF GRINDING BALLS MADE OF NI-HARD CHROMIUM NICKEL CAST IRON 67-01 M17-58371

GRINDING MILLS, CORROSION
CORROSION AS A FACTOR IN THE WEAR OF TUBE-MILL LINERS 67-12 M18-81802

GRINDING WHEELS
CUTTING WITH GRINDING DISKS AT ELEVATED TEMPERATURES 67-01 M08-58612
TIME AND WHEEL SAVINGS IN ROUGH-GRINDING TUNGSTEN CARBIDE 67-01 M08-58788
PROGRESS IN THE UTILIZATION OF GRINDING-WHEELS IN THE FOUNDRY 67-02 M08-59093
GRINDING WITH DIAMONDS--RESEARCH, PRODUCTION RESULTS 67-02 M08-60242
METAL CLADDING EXTENDS DIAMOND GRINDING WHEEL LIFE
67-02 M08-60886
GRAY IRON IS A DIAMONDS BEST FRIEND
67-04 M08-66581
THE USE OF ELECTRODEPOSITED GRINDSTONE FOR HONING
67-04 M08-66663
LAPPING SPOT FACES ON AIR BEARING END PLATES
67-04 M08-67764
ONE-SHOT MACHINING 67-05 M08-68789
ON THE MECHANICAL POLISHING OF AL AND AL ALLOYS. PT. 2. ON THE SURFACE GRINDING OPERATION OF AL
67-05 M08-68890
WHEELS THAT MAKE THE WELDING WORLD GO ROUND
67-06 M08-70648
HIGH HP, NEW WHEEL CUT COST ON ROLL GRIND 40 PER CENT 67-06 M08-72028
INCREASED PRODUCTIVITY THROUGH THE USE OF ARMORED DIAMONDS 67-07 M08-73076
THAT SPEED THING 67-07 M08-74218
SINGLE-LAYER WHEEL CUTS CARBIDE
67-07 M08-74295
PERFORMANCE TEST FOR SURFACE GRINDING WHEELS. PT. 3. GRINDING OF STAINLESS STEELS
67-08 M08-75591
DIAMOND GRINDING WHEELS 67-08 M08-75836
EVALUATING DIAMOND GRINDING WHEELS FOR DRY GRINDING PURPOSES 67-09 M08-77021
REPAIR SHOP FOR CUTTING TOOLS 67-09 M08-77677
WHEEL-FLUID-WORK INTERACTIONS, OR THE PROBLEM OF INTERPRETING GRINDING TESTS 67-10 M08-78899
SURFACE FINISHING OF ROLLING MILL ROLLS
67-11 M07-80388
NEW DEVELOPMENTS IN GRAPHITE WHEEL ELECTROLYTIC GRINDING 67-12 M08-82907
ROUGHNESS OF FINISHED SURFACE IN GRINDING OPERATION

GRINDING WHEELS
OF HARDENED STEEL 67-12 M12-83600
GRINDING WHEELS, CLEANING
JET WHEEL-CLEANING FACILITATES GRINDING OF CERTAIN ALLOY MATERIALS 67-06 M08-70864
GRINDING WHEELS, EFFICIENCY
CHANGES IN ATTITUDES--MACHINES--TOOLS IMPROVE DIAMOND GRINDING PRODUCTIVITY 67-07 M08-73690
GRINDING WHEELS, MATERIALS
STUDY OF THE ABRASIVE PROPERTIES OF REFRACTORY COMPOUNDS 67-02 M17-60181
ABRASIVE POWER OF REFRACTORY COMPOUNDS 67-09 M17-76914
SCIENTIFIC DATA ON THE USE OF DIAMONDS IN TECHNIQUES. PT. 1 67-11 M08-80514
GRINDING WHEELS, WEAR
HIGH SPEED, HIGH PRESSURE GRINDING HIKES OUTPUT, WHEEL LIFE 67-07 M08-73798
THEORY OF TOOL LIFE FOR THE GRINDING WHEEL 67-08 M08-75568
GRIT BLAST CLEANING
CLEAN HOT-ROLLED CARBON STEEL WITHOUT ACID 67-02 M12-61134
COLD-ROLLING WITHOUT ACID PICKLING 67-06 M12-71581
A TEST FOR BLAST CLEANING AND PEENING MEDIA 67-06 M12-72247
SURFACE PREPARATION BY GRIT BLASTING 67-09 M12-77643
GRIT BLASTING
SEE ALSO GRIT BLAST CLEANING
GRIT BLASTING NOZZLE FABRICATED FROM MILD TOOL STEEL PROVES SATISFACTORY 67-06 M12-70001
GRIT SIZE
SEE PARTICLE SIZE DISTRIBUTION
GROOVING
EFFICIENCY OF INGOT ROLLING IN ROLLERS WITH HIGHLY RESISTANT GROOVING 67-02 M07-62151
ROLLING INGOTS ON ROLLS WITH HIGHLY RESISTANT MILLED SURFACES 67-04 M17-68193
IMPROVING TUBE QUALITY BY CORRECT GROOVING OF THE PIERCING MILL TOOL 67-12 M07-81873
GROWTH
SEE ALSO CRYSTAL GROWTH
EPITAXIAL GROWTH
FRANK GROWTH MECHANISM
GRAIN GROWTH
HARD ANODIC OXIDE FILMS ON ALUMINUM WITH IMPROVED ELECTROINSULATION PROPERTIES 67-11 M12-81291
GUERIN FORMING
SEE RUBBER PAD FORMING
GUIDE VANES
METAL-MATRIX COMPOSITE MATERIALS FOR AIRCRAFT COMPRESSOR BLADES 67-07 M09-73347
GUIDED MISSILE COMPONENTS
SEE ROCKET COMPONENTS
GUINIER PRESTON ZONE
THE STRUCTURE OF G. P. ZONES IN ALUMINUM-ZINC ALLOYS AT THE START OF THEIR FORMATION 67-02 M14-58952
ON THE MECHANISM OF PRECIPITATION IN CU-2 WT PER CENT BE ALLOY 67-02 M14-60157
SMALL-ANGLE X-RAY SCATTERING STUDY OF THE EARLY STAGES OF AGEING IN THE ALLOY AL-ZN 67-02 M14-61920
INITIAL STAGES OF THE DISINTEGRATION OF THE SUPERSATURATED SOLID SOLUTION IN ALLOYS BASED ON THE SYSTEM. FE-NI-AL 67-02 M14-61944
STRUCTURAL INVESTIGATION OF AGING ATSM AND V92 ALLOYS 67-02 M14-62085
THE EFFECT OF SIZE DISTRIBUTION OF GUINIER-PRESTON ZONES ON THE DIFFUSION SCATTERING INTENSITY OF X-RAY BEAMS 67-02 M14-62096
RESEARCH ON RE3AS7 67-04 M13-66167
DECOMPOSITION OF QUENCHED AL-29 AT. PER CENT ZN 67-06 M13-71020
THE MECHANISM OF STRUCTURE TRANSFORMATIONS IN SUPERSATURATED AL-ZN ALLOYS 67-06 M14-70409
BRITTLENESS AND MICROSTRUCTURE OF SOME AL-MG-ZN-ALLOYS 67-06 M17-71659
X-RAY EXAMINATION OF THE INITIAL AGING STAGE IN AL-25 PER CENT ZN ALLOY 67-08 M10-74633
STUDY OF THE RECOVERY PHENOMENON IN AL-AG ALLOY 67-08 M14-74632
TRANSMISSION ELECTRON MICROSCOPY STUDIES ON PRECIPITATION IN AL-AG-CU ALLOYS 67-08 M14-75320
ELECTRON MICROSCOPIC INVESTIGATION OF ALLOYS OF THE AL-ZN-MG SYSTEM 67-08 M14-76120
THE KINETICS OF REVERSION OF SPHERICAL GUINIER-PRESTON ZONES 67-10 M14-78755
THE KINETICS OF REVERSION OF SPHERICAL GUINIER-PRESTON ZONES 67-12 M14-83124
GUINIER PRESTON ZONE, ALLOYING EFFECTS
INFLUENCE OF ADDITION OF AG OR CU ON THE FORMATION OF G-P ZONE IN AL-ZN ALLOY 67-02 M14-59750
OBSERVATIONS OF G-P ZONE REVERSION IN AL-ZN-MG ALLOYS BY SMALL-ANGLE X-RAY SCATTERING AND TRANSMISSION ELECTRON MICROSCOPY 67-06 M14-71423
THE AGING PHENOMENA AND LATTICE DEFECTS IN ALUMINIUM ALLOYS. INFLUENCE OF THE THIRD ADDITIONAL ELEMENTS ON THE FORMATION OF GP ZONES IN AL-ZN ALLOY 67-08 M14-75766
EFFECTS OF 0.25 PER CENT SILICON ON PRECIPITATION PROCESSES IN AN ALUMINUM-2.5 PER CENT COPPER-1.2 PER CENT MAGNESIUM ALLOY 67-09 M14-76677
INTERACTION BETWEEN THIRD ADDITION ELEMENTS AND G. P. ZONES IN AL-ZN ALLOYS 67-09 M14-77999
INFLUENCE OF ADDITIONAL ELEMENTS ON THE FORMATION OF GP ZONES IN AL-ZN-MG ALLOYS 67-09 M14-78239
INFLUENCE OF ADDITIONAL ELEMENTS ON THE PRECIPITATION OF AL-ZN-MG ALLOYS 67-09 M14-78240
INFLUENCE OF CONCENTRATION OF ALLOYING COMPONENTS IN AL-ZN-MG ALLOYS ON THE GUINIER-PRESTON ZONE COMPOSITION 67-11 M14-80746
ON THE AGING PHENOMENA AND LATTICE DEFECTS IN ALUMINUM ALLOYS. PT. 5. INFLUENCE OF ADDITIONAL ELEMENTS ON THE FORMATION OF GP ZONE IN AL-ZN-MG ALLOY 67-12 M14-82135
GUINIER PRESTON ZONE, TEMPERATURE EFFECTS
STRUCTURAL INVESTIGATIONS ON PRECIPITATION IN ALUMINIUM-ZINC-ALLOYS. PT. 1. MODIFICATION OF PRECIPITATION AT ROOM AND AT ELEVATED TEMPERATURES 67-02 M14-60875
GUN DRILLING
APPLICATIONS OF GUN REAMING IN VALVE PRODUCTION 67-07 M08-73126
GUN DRILLING MACHINES
GUN DRILLING LOWERS COST OF MACHINING DIE CAST DIES 67-06 M08-71589
GUNNITING
GUNNING OPEN HEARTH FURNACES 67-03 M04-65520
GUNNING OPEN HEARTH FURNACES 67-03 M04-65521
GUNNING OF HOT-METAL LADLES IN A BASIC OXYGEN SHOP 67-03 M04-65522
REFRACTORY SPRAYING OF OPEN HEARTH STEEL LADLES 67-03 M04-65523
HEARTH MAINTENANCE AND REFRACTORY USAGE WITH HIGH OXYGEN PRACTICE AT FORD MOTOR COMPANY 67-03 M04-65533
GUNNITING THE THROAT OF THE F BLAST FURNACE AT JAMSHEDPUR 67-04 M20-66598
GUNNITING THE BACKWALLS OF OPENHEARTH FURNACES AT THE ZAPOROZHSTAL WORKS 67-05 M04-68547
RECENT BASIC GUNNING APPLICATIONS 67-05 M04-68696
HOT REPAIRS TO FURNACES USING THE NOZZLE-MIX METHOD. PT. 1. --STUDY OF HOT REPAIRS TO STEELMAKING FURNACES-- 67-06 M01-72273
HOT REPAIRS TO THE LINING OF BASIC OXYGEN FURNACES 67-07 M04-72437
BACK WALLS OF OPEN-HEARTH FURNACES GUNNITED AT ZAPOROZHSTAL WORKS 67-07 M04-72458
JET GUNNITING OF BASIC REFRACTORIES 67-07 M05-72612
REFRACTORY GUNNING OF BASIC OXYGEN FURNACES 67-11 M04-80115
REFRACTORY GUNNING IN BLAST FURNACES 67-11 M04-81134
GUNPOWDER
SEE PROPELLANTS
GUNS
FROM EUROPE COMES A GROUP OF WELL-TRIED CR-MO AND CR-MO-V NITRIDING STEELS 67-03 M17-65982
GUNS, MACHINING
DEVELOPMENT OF ECM PROTOTYPE EQUIPMENT FOR GUN TUBE MANUFACTURE 67-09 M08-77906
GUNS, PLATING
A METHOD OF LOCAL TINNING OF HUNTING RIFLE BARRELS 67-06 M11-70398
A METHOD OF LOCALLY TINPLATING SHOTGUN BARRELS 67-09 M11-78098
GYROMAGNETIC RATIO
SEE NUCLEAR MAGNETIC RESONANCE
GYROPLANES

SEE HELICOPTERS

H P N PROCESS
SEE BASIC BESSEMER CONVERTERS
HAFNIUM, ALLOYING ADDITIVE
STUDY ON COPPER-RICH COPPER-HAFNIUM ALLOYS
67-02 M01-59984
AGING IN NIOBIUM-RICH NIOBIUM-HAFNIUM-CARBON ALLOYS
67-06 M10-71411
ALLOYING LOW-CARBON MANGANESE STEEL WITH MINUTE ADDITIONS OF HAFNIUM 67-07 M14-72669
SOME PROPERTIES OF COPPER-RICH COPPER-HAFNIUM ALLOYS 67-08 M17-75754
EFFECT OF TITANIUM, ZIRCONIUM, AND HAFNIUM ON THE PROPERTIES OF MOLYBDENUM ALLOYED WITH CARBON
67-11 M17-80991
HAFNIUM, BINARY SYSTEMS
THE HAFNIUM-CARBON PHASE DIAGRAM
67-09 M14-77690
PROPERTIES OF IODIDE-TYPE HAFNIUM AND ALLOYS IN THE ZIRCONIUM-HAFNIUM SYSTEM 67-10 M17-79628
HAFNIUM, CRYSTAL LATTICES
BASAL AND PRISMATIC SLIP IN HCP CRYSTALS
67-06 M13-71974
FIELD EMISSION OF CHROMIUM, COBALT AND HAFNIUM
67-09 M13-76452
X-RAY STUDY OF COLD WORK AND RECOVERY IN SOME HCP METALS AND ALLOYS 67-11 M13-80377
HAFNIUM, DIFFUSION
SELF-DIFFUSION AND ELASTIC CONSTANTS IN THE ANOMALOUS BCC METALS 67-06 M14-70427
HAFNIUM, ELECTRICAL PROPERTIES
WORK FUNCTION OF METALS 67-06 M16-70492
HAFNIUM, EXTRACTION
SOME CHARACTERISTICS OF THE SEPARATION OF ZIRCONIUM AND HAFNIUM BY CRYSTALLIZATION OF COMPLEX FLUORIDES 67-01 M02-57307
HAFNIUM, INTERMETALLICS
HIGH-TEMPERATURE OXIDATION. PT. 3. ZIRCONIUM AND HFANIUM DIBORIDES 67-02 M14-61768
SOME NEW PHASES OF THE MN5SI3 TYPE
67-12 M14-82052
HAFNIUM, MECHANICAL PROPERTIES
THE EFFECTS OF OXYGEN ON THE MECHANICAL AND CORROSION PROPERTIES OF HAFNIUM
67-01 M17-58457
INFLUENCE OF THE CONDITIONS OF PRODUCTION OF HAFNIUM ON ITS MECHANICAL PROPERTIES AND CORROSION RESISTANCE 67-02 M03-60657
HAFNIUM, MICROSTRUCTURE
HYDRIDE HABIT PLANES AND DEFORMATION PLANES OF HCP METALS 67-11 M13-81274
HAFNIUM, OXIDATION
KINETIC STUDY OF HIGH-TEMPERATURE OXIDATION OF HF
67-08 M14-75295
HAFNIUM, PHASE TRANSFORMATIONS
THE SOLID-PHASE TRANSFORMATION IN HAFNIUM
67-11 M13-81202
HAFNIUM, QUATERNARY SYSTEMS
STUDY OF THE NIOBIUM-ZIRCONIUM-HAFNIUM-CARBON SYSTEM 67-12 M13-83407
HAFNIUM, REACTIONS /CHEMICAL/
CONTACT INTERACTION OF TIN WITH TI, ZR AND V IN VACUUM 67-02 M14-62243
THE REACTIONS OF LIQUID TITANIUM AND HAFNIUM WITH CARBON 67-12 M14-82878
HAFNIUM, REFINING
OBTAINING PURE METALS BY CHEMICAL METHODS
67-04 M03-67843
HAFNIUM, TERNARY SYSTEMS
PHASE DIAGRAM OF THE HFC-MO SYSTEM
67-02 M13-59666
PHASE EQUILIBRIUM IN THE HF-RE-C TERNARY SYSTEM
67-03 M13-65794
THE ZRC-MO PHASE DIAGRAM 67-04 M14-67236
ALLOY COMPOSITIONS OF HFB2 WITH URANIUM AND TRANSITION METAL BORIDES 67-04 M14-67453
TERNARY SYSTEMS OF TI-ZR-C AND TI-HF-C
67-08 M13-75435
SOLID SOLUTIONS IN THE ZR-NB-HF SYSTEM
67-08 M13-75896
SUPERCONDUCTING HC-JC AND TC MEASUREMENTS IN THE NB-TI-N, NB-HF-N AND NB-V-N TERNARY SYSTEMS
67-09 M16-77449
HAFNIUM BASE ALLOYS, COATING
THE HIGH TEMPERATURE EVALUATION OF AEROSPACE MATERIALS 67-03 M17-65935
HAFNIUM BASE ALLOYS, OXIDATION
STUDY OF OXIDATION IN HF-TI ALLOYS
67-08 M18-75898
OXIDATION OF HF-TA ALLOYS 67-12 M18-82978
HAFNIUM BASE ALLOYS, PHYSICAL PROPERTIES
ZR HF TI NEWSLETTER 67-09 M01-78164
HAFNIUM BASE ALLOYS, SUPERCONDUCTIVITY
ON THE SUPERCONDUCTIVITY OF HF-RH ALLOYS
67-05 M16-69342
HAFNIUM COMPOUNDS, CORROSION
OXIDATION CHARACTERISTICS OF HAFNIUM AND ZIRCONIUM DIBORIDE 67-12 M18-82563
HAFNIUM COMPOUNDS, CRYSTAL GROWTH
TRANSPORT REACTIONS OF THE SILICIDES AND BORIDES OF TRANSITION METALS 67-03 M14-65184
HAFNIUM COMPOUNDS, DISTILLATION
THE ZRCL4-HFCL4 SYSTEM--SEPARATION OF ITS COMPONENTS BY RECTIFICATION 67-06 M03-71393
HAFNIUM COMPOUNDS, MECHANICAL PROPERTIES
THE DEVELOPMENT AND EVALUATION OF HYPEREUTECTIC CARBIDES 67-02 M05-60712
HAFNIUM COMPOUNDS, PHYSICAL PROPERTIES
MEASUREMENT OF THE THERMAL CONDUCTIVITY AND ELECTRICAL CONDUCTIVITY OF ZRC, HFC, NBC AND TAC AT HIGH TEMPERATURES 67-01 M15-58057
MELTING POINTS OF ZRC-HFC, TAC-ZRC AND TAC-HFC SYSTEMS 67-05 M15-68710
SOME PHYSICAL PROPERTIES OF ALLOYS OF THE ZRC-NBC AND TAC-HFC SYSTEMS 67-06 M15-71472
MELTING POINT IN SYSTEMS ZRC-HFC, TAC-ZRC, TAC-HFC
67-12 M15-82686
SOME PHYSICAL PROPERTIES OF ALLOYS OF THE SYSTEMS ZRC-NBC AND TAC-HFC 67-12 M15-82793
HAFNIUM COMPOUNDS, REDUCTION /CHEMICAL/
EXAMPLES OF APPLICATION OF THE ELECTRON BOMBARDMENT FURNACE IN METALLURGICAL CHEMISTRY
67-09 M03-77831
HAFNIUM COMPOUNDS, TERNARY SYSTEMS
CONDENSED PHASE RELATIONS IN THE SYSTEMS ZRO2-WO2-WO3 AND HFO2-WO2-WO3 67-08 M13-76093
HAFNIUM COMPOUNDS, THERMAL PROPERTIES
HIGH-TEMPERATURE THERMAL EXPANSION OF CERTAIN GROUP 4 AND GROUP 5 DIBORIDES 67-06 M15-71162
HAFNIUM COMPOUNDS, THERMODYNAMICS
REVIEW OF THE SCIENCE OF CERAMIC MATERIALS
67-02 M05-60702
THERMODYNAMIC PROPERTIES OF ZIRCONIUM AND HAFNIUM CARBIDES OVER THE RANGE 298 TO 2500 K
67-05 M15-68706
DETERMINATION OF THE VAPOR PRESSURE OF HAFNIUM TETRAIODIDE VAPOR 67-09 M15-76581
VAPOR PRESSURE AND HEAT OF SUBLIMATION OF ZIRCONIUM AND HAFNIUM TETRACHLORIDES 67-09 M15-76582
THERMODYNAMIC PROPERTIES OF ZIRCONIUM AND HAFNIUM CARBIDES IN THE RANGE 298-2500 K
67-12 M15-82682
HAFNIUM COMPOUNDS, X RAY DIFFRACTION
DIFFUSE X-RAY SCATTERING BY THE SOLID SOLUTION HFC-ZRC 67-02 M09-61167
HALIDES
SEE ALSO CHLORIDES
FLUORIDES
HYDROCHLORIC ACID
LITHIUM FLUORIDE
SODIUM CHLORIDE
HALIDES, ATOMIC PROPERTIES
ATOMIC GEOMETRY OF THE ALKALI HALIDES
67-08 M16-74947
HALIDES, CHEMICAL ANALYSIS
IMPURITY ANALYSIS OF ALKALI HALIDES BY MASS SPECTROGRAPHY 67-08 M19-75992
HALIDES, CORROSION ENVIRONMENTS
SOME OBSERVATIONS ON THE PITTING CORROSION OF TYPE 302 STAINLESS STEEL IN DILUTE OXYGENATED HALIDE SOLUTIONS 67-06 M18-69905
HALIDES, POWDER METALLURGY
THE KINETICS OF METALLIC ACTIVATION SINTERING OF TUNGSTEN 67-08 M09-75292
HALL COEFFICIENT
SEE HALL EFFECT
HALL CONDUCTIVITY
SEE HALL EFFECT
HALL CONSTANT
SEE HALL EFFECT
HALL EFFECT
GROWING PURE SINGLE CRYSTALS OF REFRACTORY METALS AND MEASUREMENT OF THE HALL EFFECT ON THESE
67-01 M14-58080
EFFECT OF SUBSTRATE TEMPERATURE ON HALL COEFFICIENT OF THIN FILMS 67-01 M15-57214

THE INTERPRETATION OF THE HALL EFFECT IN ALLOYS OF COPPER AND SILVER WITH GROUP B METALS 67-01 M15-57489
QUANTUM SIZE EFFECT IN THIN BISMUTH FILMS 67-01 M15-58736
FERROMAGNETIC HALL EFFECT WITH ELECTRON-PHONON INTERACTIONS 67-01 M15-58749
EFFECT OF CARBON ON THE PHYSICAL PROPERTIES OF TITANIUM CARBIDE IN ITS HOMOGENEITY REGION 67-01 M16-58347
CONDUCTIVITY, HALL EFFECT, OPTICAL ABSORPTION, AND BAND GAP OF VERY PURE BORON 67-01 M16-58411
STUDY OF IRREGULARITIES DETECTED BY ANODE PICKLING IN N-TYPE GERMANIUM MONOCRYSTALS 67-02 M13-59566
HALL COEFFICIENT OF ALUMINUM RICH ALLOYS 67-02 M15-59059
THEORY OF THE GALVANOMAGNETIC PROPERTIES OF MAGNESIUM AND ZINC 67-02 M15-60766
ELECTRICAL PROPERTIES OF TERNARY BI-SN-TE ALLOYS IN A WIDE TEMPERATURE RANGE 67-02 M15-61071
INVESTIGATION OF GALVANOMAGNETIC PROPERTIES OF HYDROGENATED PALLADIUM SINGLE CRYSTALS 67-02 M15-61118
PLANE HALL EFFECT IN FERROMAGNETIC METALS 67-02 M15-61119
ELECTRICAL PROPERTIES OF GASB-GA2TE3 AND GASB-GATE SOLID SOLUTIONS 67-02 M15-61521
ELECTRICAL PROPERTIES OF SULFIDES OF TRANSITION METALS 67-02 M15-61633
HIGH-TEMPERATURE HALL EFFECT IN GASB 67-02 M15-61692
HALL EFFECT CLOSE TO THE CURIE POINT IN FERROMAGNETIC METALS 67-02 M15-61919
HALL EFFECT IN TRANSITION METALS WITH A SMALL NUMBER OF D-ELECTRONS 67-02 M15-61943
ELECTRICAL PROPERTIES OF SOME LIQUID SEMICONDUCTORS 67-02 M16-60810
PREPARATION AND PROPERTIES OF VACUUM DEPOSITED CDS AND CDSE FILMS 67-02 M16-61121
ELECTRICAL PROPERTIES OF N-TYPE EPITAXIAL GALLIUM ARSENIDE 67-02 M16-61507
HALL EFFECT OF THIN IRON FILMS 67-03 M15-65187
ANISOTROPY OF THE HALL EFFECT IN GADOLINIUM 67-03 M15-65306
HALL EFFECT IN HOLMIUM 67-03 M15-65631
HALL EFFECT AND TRANSVERSE MAGNETORESISTANCE IN SOME FERROMAGNETIC IRON-CHROMIUM ALLOYS 67-03 M16-65026
INVESTIGATIONS OF THE HALL EFFECT AND ELECTRICAL CONDUCTIVITY IN A SILVER-PALLADIUM SOLID SOLUTION 67-03 M16-65065
ELECTRICAL PROPERTIES OF TELLURIUM DOPED WITH IODINE 67-03 M16-65459
EFFECT OF STRUCTURAL DEFECTS ON SOME ELECTRICAL PROPERTIES OF GERMANIUM DOPED WITH GOLD AND ANTIMONY 67-03 M16-65461
DEPENDENCE OF THE TRANSVERSE HALL EFFECT IN P-TYPE SILICON ON THE MAGNETIC FIELD INTENSITY 67-03 M16-65634
HALL EFFECTS OF VANADIUM DIOXIDE POWDER 67-03 M16-65644
IONIZATION ENERGIES AND THEIR PRESSURE DEPENDENCE OF CU AND AG IN INSB 67-03 M16-65650
HALL EFFECT MEASUREMENTS ON AU-CS-O 67-03 M16-65753
ELECTRICAL AND GALVANOMAGNETIC PROPERTIES OF SINGLE CRYSTAL INSB DENDRITES 67-03 M16-65770
ELECTRICAL PROPERTIES OF PURE BISMUTH AND ITS ALLOYS WITH TIN IN A WIDE TEMPERATURE RANGE 67-04 M15-66016
DIFFUSED GERMANIUM RESISTORS FOR THERMOMETRY IN 20 TO 70 K. RANGE 67-04 M15-67401
HALL EFFECT IN FE THIN FILMS 67-04 M15-67728
EFFECT OF CARRIER-CARRIER SCATTERING ON THE HALL EFFECT IN GRAPHITE 67-04 M16-66763
LOW TEMPERATURE TRANSPORT EFFECTS IN N-TYPE GASB AT HIGH MAGNETIC FIELDS 67-04 M16-66767
HIGH FIELD MOBILITY OF PHOTOELECTRONS IN CDS 67-04 M16-66773
AN EXPERIMENTAL INVESTIGATION OF THE HALL EFFECT IN THE HOPPING REGION 67-04 M16-66784
EFFECT OF THE TEMPERATURE ON THE CHANGE IN THE CONCENTRATION OF CONDUCTION ELECTRONS IN BISMUTH DUE TO THE PRESENCE OF ELEMENTS OF THE 4 AND 6 GROUPS 67-04 M16-67052
SHUBNIKOV-DE HAAS EFFECT IN IMPURITY BAND 67-04 M16-67424
GALVANOMAGNETIC EFFECTS IN CADMIUM ANTIMONIDE 67-04 M16-67470
PURIFYING TELLURIUM BY ZONE MELTING 67-05 M03-69538
EXPERIMENTS ON THE MAGNETORESISTIVITY AND HALL EFFECT IN NI AND NI ALLOYS. THE VALIDITY OF KOHLERS RULE 67-05 M15-68280
PIEZ/-HALL EFFECT IN N-TYPE GERMANIUM 67-05 M15-69771
ON THE MIXED MECHANISM OF ELECTRON SCATTERING IN INSB CRYSTALS 67-05 M15-69789
HIGH TEMPERATURE HALL EFFECT IN CUPROUS OXIDE 67-05 M16-69091
ELECTRON MOBILITIES IN SIC POLYTYPES 67-05 M16-69205
ELECTRICAL PROPERTIES OF EPITAXIAL GE FILMS DEPOSITED ON --111-- CAF2 SUBSTRATES 67-05 M16-69212
MEASUREMENT OF THE MAGNETORESISTANCE OF P-TYPE SILICON IN STRONG PULSED MAGNETIC FIELDS 67-05 M16-69390
TEMPERATURE DEPENDENCE OF THE HALL COEFFICIENT IN P-PBTE 67-05 M16-69397
TEMPERATURE DEPENDENCE OF THE HALL COEFFICIENT IN N-PBTE 67-05 M16-69398
NATURE OF THE DEFECTS IN GERMANIUM TELLURIDE 67-05 M16-69578
EFFECT OF TEMPERATURE ON THE HALL COEFFICIENT OF INDIUM AND INDIUM-RICH SOLID SOLUTIONS 67-05 M16-69753
HIGH PURITY EXPITAXIAL INAS 67-06 M15-70084
PHOTOCONDUCTIVE AND ELECTRICAL PROPERTIES OF UNCOMPENSATED BERYLLIUM-DOPED GERMANIUM 67-06 M15-71142
THE HALL EFFECT IN PALLADIUM AND DILUTE IRON-PALLADIUM ALLOYS 67-06 M15-72000
STRUCTURE, CONDUCTIVITY AND HALL EFFECT OF ELECTRON BOMBARDMENT EVAPORATED SILICON FILMS ON SAPPHIRE 67-06 M15-72001
HALL EFFECT VOLTAGE REVERSAL IN SHOCK-LOADED P-TYPE --100-- GERMANIUM 67-06 M16-70086
HALL EFFECT IN SEMICONDUCTORS WITH TWO TYPES OF CARRIER 67-06 M16-70868
ANNEALING EFFECTS OF LI-SATURATED P-TYPE INSB 67-06 M16-71551
ELECTRICAL PROPERTIES OF HEAVILY DOPED P-TYPE GERMANIUM CONTAINING BERYLLIUM 67-06 M16-71773
MECHANISM OF ELECTRON SCATTERING IN IN2O3 FILMS 67-06 M16-71775
SOME REMARKSO CONDUCTIVITY AND HALL CONSTANT 67-06 M16-71864
ELECTRIC PROPERTIES OF P-TYPE GERMANIUM STRONGLY DOPED WITH BERYLLIUM 67-06 M16-71924
A METHOD FOR MEASURING THE HALL EFFECT IN MATERIALS WITH HIGH SPECIFIC RESISTANCE 67-06 M16-72142
ANISOTROPY OF THE EXTRAORDINARY HALL EFFECT OF NI SINGLE CRYSTALS 67-07 M15-72409
PHOTOCONDUCTIVE AND PHOTO-HALL MEASUREMENTS ON HIGH-RESISTIVITY GAP 67-07 M15-72632
HALL EFFECT IN LI-DOPED MNO 67-07 M15-73298
BOND CHARACTER AS REVEALED BY ELECTRONIC PROPERTIES 67-07 M15-73664
THE EFFECT OF PLASTIC DEFORMATION ON THE RESISTIVITY AND HALL EFFECT OF COPPER-PALLADIUM AND GOLD-PALLADIUM ALLOYS 67-07 M15-73907
HALL EFFECT AND THERMOELECTRIC POWER IN SEMICONDUCTIVE TIO2 67-07 M16-73320
PHOTOCONDUCTIVE EFFECT OF ZNO-CU CRYSTALS 67-07 M16-73324
INTERNAL DEFECT PHENOMENA IN TE 67-07 M16-73833
SURFACE TRANSPORT PHENOMENA IN PBS% EPITAXIAL FILMS 67-07 M16-73944
THE INTERRELATIONSHIP OF HYDROGEN DIFFUSION PARAMETERS AND KINETIC COEFFICIENTS IN FE-AL ALLOYS 67-08 M14-75275
INTERPRETATION OF THE HALL COEFFICIENT, ELECTRICAL RESISTIVITY AND SEEBECK COEFFICIENT OF P-TYPE LEAD TELLURIDE 67-08 M15-74388
RECOMBINATION CENTERS IN INSB 67-08 M15-75119
THE ISOTROPIC AND ANISOTROPIC CHANGES IN THE ELECTRICAL RESISTANCE, THERMAL EMF AND HALL FACTOR OF BISMUTH DURING ITS PLASTIC DEFORMATION 67-08 M15-75449
A CRYOSTAT AND SUPERCONDUCTING MAGNET SYSTEM FOR EXPERIMENTS IN HIGH MAGNETIC FIELDS BETWEEN 1

AND 300 K 67-08 M15-75653
GALVANOMAGNETIC EFFECTS IN IRON WHISKERS 67-08 M16-74946
DE HAAS-SHUBNIKOV OSCILLATIONS IN THE HALL EFFECT IN ARSENIC 67-08 M16-75826
ELECTRIC AND THERMOELECTRIC EFFECTS IN A SOLID SOLUTION OF ZNXCD1-XSB 67-09 M15-76737
EFFECT OF SAMPLE GEOMETRY ON MAGNETOMORPHIC OSCILLATIONS IN THE HALL EFFECT IN CADMIUM AT LIQUID-HELIUM TEMPERATURES 67-09 M15-77168
HALL EFFECT OF N-TYPE GAAS IN HIGH ELECTRIC FIELDS 67-09 M15-77175
HALL EFFECT AND ELECTRONIC STRUCTURE OF VARIOUS ACTINIDE METALS 67-09 M16-76319
THE HALL ANGLE OF VARIOUS SUPERCONDUCTING NIOBIUM-TANTALUM ALLOYS IN THE MIXED STATE 67-09 M16-77672
PREPARATION OF CU2SE SINGLE CRYSTALS AND INVESTIGATION OF THEIR ELECTRICAL PROPERTIES 67-10 M15-79004
HIGH-FIELD GALVANOMAGNETIC PROPERTIES OF NIOBIUM AND TANTALUM 67-10 M15-79415
GALVANOMAGNETIC PROPERTIES OF MOLYBDENUM CRYSTALS IN STRONG EFFECTIVE FIELDS 67-10 M15-79539
INFLUENCE OF ADSORPTION OF CS, BA, TH AND CU ATOMS AND OF AN ELECTRIC FIELD ON THE HALL EFFECT AND ELECTRIC CONDUCTIVITY OF THIN NICKEL FILMS 67-10 M15-79649
LOW TEMPERATURE ELECTRICAL PROPERTIES OF SILICON MATERIAL 67-10 M15-80025
HALL COEFFICIENT BEHAVIOR IN TIFE, TICO, TINI, AND THEIR ALLOYS 67-10 M16-79119
TEMPERATURE DEPENDENCE OF PHOTOLUMINESCENCE IN CADMIUM-DOPED EPITAXIAL GAAS 67-10 M16-79161
HELICON OSCILLATIONS IN HGSE 67-10 M16-79368
ENERGY GAP IN BETA AG2SE 67-10 M16-79420
FOUNDATIONS OF CRYSTAL ELECTRONICS 67-10 M16-80002
THERMOELECTRIC AND GALVANOMAGNETIC MEASUREMENTS ON --BI2TE3--5--BI2SE3--1--SB2TE3--18 67-11 M15-80121
BRAGG REFLECTION OF ELECTRONS IN LIQUID ALLOYS 67-11 M15-80182
A HALL FOUR-POINT PROBE ON THIN PLATES. THEORY AND EXPERIMENT 67-11 M15-80536
ELECTRICAL PROPERTIES OF GERMANIUM COMPOUNDS 67-11 M15-80610
MAGNETIC BREAKDOWN, FERMI SURFACE, AND GALVANOMAGNETIC PROPERTIES IN ANTIFERROMAGNETIC METALS 67-11 M15-80658
HALL EFFECT IN NI-CU ALLOYS AT LOW TEMPERATURES 67-11 M15-80725
ANISOTROPY OF THE HALL EFFECT IN DYSPROSIUM 67-11 M15-80786
HALL COEFFICIENT OF LIQUID METALS HG, GA, IN, AND SN, AND OF IN2BI AND HG-SN ALLOYS 67-11 M15-81049
A REVIEW OF THE PHYSICAL PROPERTIES OF SOME PRIMARY SOLID SOLUTIONS, AND THEIR INTERPRETATION 67-11 M15-81109
EFFECTS OF ORDERING ON THE TRANSPORT PROPERTIES OF SODIUM TUNGSTEN BRONZE 67-11 M15-81397
DIFFUSION SIZE EFFECT IN BISMUTH AT LIQUID HELIUM TEMPERATURES 67-11 M15-81471
SEMICONDUCTING PROPERTIES OF THALLIUM SELENIDE 67-11 M15-81476
TRANSPORT PHENOMENA IN SEMICONDUCTING THIN FILMS 67-11 M16-80223
SOLUBILITY EFFECTS OF IMPLANTED IONS IN SEMICONDUCTORS 67-11 M16-81204
ELECTRICAL MEASUREMENTS FOR TRACE CHARACTERIZATION 67-11 M19-80132
THE HALL EFFECT IN CHROMIUM-VANADIUM ALLOYS AT ROOM AND LIQUID N2 TEMPERATURES IN FIELDS UP TO 100 KOE 67-12 M15-82293
ELECTRICAL PROPERTIES OF NONSTOICHIOMETRIC THORIUM CARBIDES 67-12 M15-82364
HALL EFFECT IN THIN METAL FILMS 67-12 M15-82369
GUREVICH MAGNETOMORPHIC OSCILLATIONS IN SINGLE CRYSTALS OF ALUMINUM AT HELIUM TEMPERATURES 67-12 M15-82526
TRANSVERSE MAGNETORESISTANCE IN N-TYPE GERMANIUM 67-12 M15-82534
EFFECT OF MARTENSITIC TRANSFORMATION ON THE ELECTRICAL AND MAGNETIC PROPERTIES OF NITI 67-12 M15-82748
SOME PHYSICAL PROPERTIES OF ALLOYS OF THE SYSTEMS ZRC-NBC AND TAC-HFC 67-12 M15-82793
ELECTRICAL CONDUCTIVITY AND HALL EFFECT IN THIN VANADIUM FILMS 67-12 M15-83272
ABOUT THE ROLE OF MINORITY CARRIERS IN THE IMPURITY CONDUCTION OF GASB 67-12 M16-82014
EFFECTS OF LOW-TEMPERATURE ELECTRON IRRADIATION ON THE ELECTRICAL PROPERTIES OF UNDOPED GASB 67-12 M16-82533

HALL EFFECT, COMPOSITION EFFECTS
CONDUCTIVITY AND HALL CONSTANT. PT. 35. ON THE INFLUENCE OF VALENCY OF BETA-METALS ON THE CHANGE OF ELECTRICAL PROPERTIES BY SHORT RANGE ORDER IN TERNARY COPPER AND SILVER BASE ALPHA-SOLID SOLUTIONS 67-06 M15-71720

HALL EFFECT, IMPURITY EFFECTS
THE TEMPERATURE DEPENDENCE OF THE DEFECT ELECTRON MOBILITY IN SILICON CRYSTALS 67-02 M15-61509
CONDUCTION BAND OF GASB 67-02 M15-61693
HALL EFFECT IN ZINC WITH SMALL CONTENTS OF IMPURITIES 67-06 M15-70222

HALL EFFECT, RADIATION EFFECTS
HALL MOBILITY ANNEALING IN ELECTRON IRRADIATED GERMANIUM 67-07 M16-73883
RADIATION DAMAGE IN CADMIUM SULFIDE AND CADMIUM TELLURIDE 67-08 M16-75126
FORMATION OF STRUCTURE DEFECTS IN LOW-TEMPERATURE X-IRRADIATION OF INDIUM ANTIMONIDE 67-09 M16-76778
NEUTRON-INDUCED TYPE CHANGES IN P-TYPE SILICON 67-11 M16-81691

HALL EFFECT, SIZE EFFECTS
SOME EFFECTS OF SAMPLE SIZE ON ELECTRICAL TRANSPORT IN BISMUTH 67-10 M15-79417

HALL EFFECT, STRESS EFFECTS
EFFECT OF STRESS ON THE HALL COEFFICIENT OF CHROMIUM FILMS 67-09 M16-77428

HALL EFFECT, TEMPERATURE EFFECTS
SOME TRANSPORT PROPERTIES OF CONDUCTION ELECTRONS IN N-TYPE CDS 67-02 M15-59470
ELECTRICAL PROPERTIES OF ALPHA-IN2SE3 67-02 M15-59480
HALL AND NERNST-ETTINGS-HAUSEN EFFECTS IN FERRITES CONTAINING AN EXCESS OF IRON IONS 67-06 M15-70520
ELECTRICAL PROPERTIES OF BETA-AG2TE AND BETA-AG2SE FROM 4.2 TO 300 K 67-07 M15-72648
THE HALL EFFECT, MAGNETORESISTIVITY, AND MAGNETIC SUSCEPTIBILITY OF ALPHA-MANGANESE AT LOW TEMPERATURES 67-10 M15-78782

HALL EMF
SEE HALL EFFECT

HALL HEROULT PROCESS
STUDY OF ELECTRICAL FIELD IN CATHODE METAL OF ALUMINUM ELECTROLYZERS 67-04 M03-66970
SINGULARITIES OF HEAT TRANSFER IN AN ALUMINUM ELECTROLYZER 67-04 M03-66971
METALLURGICAL ABSTRACTS ON LIGHT METALS AND ALLOYS. V 2 67-05 M01-68899
VISCOSITY OF AL ELECTROLYTE. PT. 2 67-05 M03-68886
RELATIONSHIP BETWEEN OXIDIZABILITY AND ELECTROCHEMICAL BEHAVIOR OF CARBON ATOMS DURING THE ELECTROLYSIS OF ALUMINUM 67-05 M03-68960
RELATIONSHIP BETWEEN DISTRIBUTION OF ANODIC CURRENT DENSITY AND FORM OF INTERPOLAR GAP IN INDUSTRIAL ALUMINUM BATHS 67-05 M03-68961
EFFECT OF CARBON OXIDATION INHIBITORS ON THE BEHAVIOR OF THE CARBON ANODE DURING ELECTROLYSIS OF ALUMINUM 67-05 M03-69537
CURRENT EFFICIENCY IN ALUMINA ELECTROLYSIS 67-06 M03-70917
MECHANISM OF ALUMINUM LOSS IN CRYOLITE-ALUMINA MELTS 67-06 M03-70929
ELECTRICAL RESISTANCE OF THE SHAFT-ANODE CONTACT AND VOLTAGE LOSS IN SELF-BAKING ANODES 67-06 M03-71308
CALCULATION METHOD FOR DETERMINATION OF FLUORINE BALANCE DURING ELECTROLYSIS OF ALUMINUM 67-06 M03-71309
INFLUENCE OF CURRENT INSTABILITY IN A SERIES ON THE PERFORMANCE OF ALUMINUM ELECTROLYTIC CELLS 67-07 M03-73416
TECHNOLOGY OF ELECTROLYTIC REDUCTION OF ALUMINA BY THE HALL-HEROULT PROCESS. PT. 4. CHEMICAL PROCESSES ASSOCIATED WITH THE ANODE EFFECT 67-07 M03-73610
TECHNOLOGY OF ELECTROLYTIC REDUCTION OF ALUMINA BY THE HALL-HEROULT PROCESS. PT. 3. THE ANODE REACTION DURING ELECTROLYTIC DECOMPOSITION OF THE ALUMINA 67-07 M08-73609

HALL HEROULT PROCESS
THE DETERMINATION OF OPTIMUM CURRENT INTENSITIES FOR BITTERFELD ELECTROLYTIC CELLS 67-08 M03-74355
DEPENDENCE OF THE QUALITY OF THE ANODE OF AN ALUMINUM ELECTROLYTIC CELL ON THE NUMBER AND DIAMETER OF PINS 67-08 M03-75206
HYDRODYNAMIC CONDITIONS AND THEIR INFLUENCE ON GAS CONTENT AND CONDUCTIVITY OF ALUMINUM ELECTROLYTE 67-08 M03-75207
TESTING NEW MATERIALS FOR CATHODE LEADS OF ALUMINUM ELECTROLYTIC CELLS 67-08 M03-75209
ANALYSIS OF THE CONDITIONS RESULTING IN THE PRESENCE OF SODIUM IMPURITY IN CATHODIC ALUMINUM 67-08 M03-76239
THE LOSS RATE OF ALUMINUM IN CRYOLITE-ALUMINA MELTS 67-08 M03-76241
SELF-PROPELLED ROUND-ABOUT CLEANER OF STEEL PINS 67-09 M03-76809
ELECTROMOTIVE FORCE OF POLARIZATION AND ACTIVITY OF ALUMINUM IN THE ELECTROLYSIS OF CRYOLITE-ALUMINA MELTS 67-11 M03-81155
HALL MOBILITY
SEE CARRIER MOBILITY
HALL EFFECT
HALL POTENTIAL
SEE HALL EFFECT
HALL VOLTAGE
SEE HALL EFFECT
HALOGENATION
SEE BROMINATION
CHLORINATION
FLUORINATION
HALOGENS
SEE BROMINE
FLUORINE
IODINE
HAMMER FORGING
USE OF COMPOSITE BILLETS FOR STUDYING METAL DISPLACEMENT DURING STAMPING 67-05 M07-69438
FORGING METALLURGY--TITANIUM. PT. 2. FORGING METHODS AND EQUIPMENT 67-10 M07-79778
HAMMERS
SEE DROP HAMMERS
HAND TOOLS, HEAT TREATMENT
INFLUENCE OF ADDITION OF AMMONIUM TO THE CARBURIZING GAS ON STRUCTURE AND MECHANICAL PROPERTIES OF DRILLING CHISELS 67-09 M10-77420
HANDLING
SEE MATERIALS HANDLING
HANGERS, ROOFS
ARGON ARC WELDING OF THE ALUMINIUM COMPONENTS OF A HANGAR ROOF 67-05 M11-68273
HARD ANODIZING
INSTITUTE OF METAL FINISHING TRANSACTIONS 67-05 M12-68833
WEAR RESISTANCE PROPERTIES OF HARD ANODIZED COATINGS. PT. 1 AND 2 67-05 M12-68896
HARD ANODIZING ALUMINUM AND ITS ALLOYS 67-06 M12-71068
HARD ANODIZING OF MAGNESIUM 67-11 M12-81238
HARD COATING
SEE HARD SURFACING
HARD FACING
SEE HARD SURFACING
HARD METALS
SEE REFRACTORY COMPOUNDS
HARD RADIATION
SEE IONIZING RADIATION
HARD SOLDERING
SEE BRAZING
HARD SURFACING
INFLUENCE OF TUNGSTEN AND CARBON CONTENTS ON THE MICROSTRUCTURE AND PROPERTIES OF A COBALT-BASE HARDFACING ALLOY 67-01 M01-58649
STATE AND DEVELOPMENT OF WELDING MATERIAL MANUFACTURE 67-01 M11-57145
ARC WELDING HEAT-RESISTANT STEELS 67-01 M11-57529
STRUCTURAL CHANGES IN METALS AFTER ELECTRIC SPARK ALLOYING 67-01 M11-57687
CALCULATING THE PARAMETERS OF BUILDING UP MASSIVE PIECES WITH A VIBRATING ELECTRODE 67-01 M12-57367
BUILDING UP WITH A THREE-PHASE ARC USING A POWDER WIRE 67-01 M12-57373
BUILDING UP HYDROPRESS COMPONENTS DAMAGED BY CAVITATION 67-01 M12-57375
DETERMINING THE STATIC CHARACTERISTICS OF SELF-REGULATING SYSTEMS OF WELDING WITH SHORT ARC CLOSINGS 67-01 M12-57528
AUTOMATIC TAPE-ELECTRODE RECLAMATION OF TRACKED TRACTOR GUIDEWHEELS 67-01 M12-58166
TEMPERATURE FIELD AND SCHEDULES FOR ARC-DEPOSIT WELDING WITH A TAPE ELECTRODE 67-01 M12-58186
AUTOMATIC BUILDUP UNDER OXIDIZING FLUX OF STATIONARY SCREEN GRATES OF A SINTERING MACHINE 67-01 M12-58213
PERCUSSION WELD SURFACING--A NEW APPROACH FOR CARBIDE COATING OF TOOLS AND DIES 67-01 M12-58689
EFFICIENT ROLLERS FOR THE 2800 MILL BREAKDOWN STAND 67-02 M07-62149
INVESTIGATION OF HARDFACING RODS OF CHROMIUM CARBIDE ALLOY 67-02 M09-62134
DETERMINING THE SIZE OF THE BUILT-UP EDGE OF A HOT-TRIMMING DIE 67-02 M11-59518
HIGH-FREQUENCY BUILDUP OF THIN-SHEET PIECES WITH WEAR-RESISTANT ALLOYS 67-02 M11-59519
BUILD-UP RECLAMATION OF GUIDING ARCS IN DONBASS COAL COMBINES 67-02 M11-59522
PRESTRESSES IN MULTILAYER SHELLS DURING ARC WELDING 67-02 M11-59524
BUILDUP OF ROLLING MILL ROLLERS WITH PP-2KH2V8 POWDER WIRE 67-02 M11-59525
RECLAMATION OF METALLURGICAL EQUIPMENT BY BUILDUP 67-02 M11-59527
ELECTROSLAG RECLAMATION OF ROLLING ROLLS 67-02 M11-59584
INFLUENCE OF SOME REFRACTORY COMPOUNDS ON THE PROPERTIES OF HARD SURFACED METAL 67-02 M11-60185
PRODUCTIVITY OF VIBRO-ARC BUILD-UP BY LARGE DIAMETER ELECTRODE WIRE 67-02 M11-60835
NEW ELECTRODES FOR WEAR-RESISTANT BUILDUP 67-02 M11-60836
REPAIRING A CORE DRILL BY ELECTROSLAG WELDING 67-02 M11-60842
ARC WELDING OF HIGH TEMPERATURE STEELS 67-02 M11-61148
RECLAMATION OF LARGE SIZE METALLURGICAL EQUIPMENT PARTS 67-02 M11-61250
EFFECT OF TECHNOLOGICAL FACTORS OF VIBROARC BUILDUP ON PHASE COMPOSITION OF 30KH10G10 STEEL 67-02 M11-62163
DETERMINING THE AMOUNT OF AUSTENITE IN HARD MULTIPHASE BUILDUPS 67-02 M11-62164
STRUCTURE OF TRANSITION ZONES IN ELECTROSLAG BUILDUP WITH A COMPOUND ELECTRODE 67-02 M11-62170
HARD FACING WITH SINTERED HARD-ALLOY ELECTRODES 67-02 M12-58944
RECLAMATION OF WORNOUT SURFACES BY RESISTANCE WELDING TECHNIQUE 67-02 M12-60137
AUTOMATIC METAL ARC HARD FACING IN AUSTRALIA 67-02 M12-60910
THE USE OF A NUMBER OF METHODS OF DEPOSITING SURFACE LAYERS IN RECONDITIONING MACHINE PARTS 67-02 M12-61062
OXIDATION PROCESSES IN THE AUTOMATIC HARDFACING OF STEELS UNDER A COOLING LIQUID 67-02 M12-61146
IMPROVING THE SERVICE LIFE OF EXCAVATOR BUCKET TEETH BY DEPOSIT WELDING WITH POWDER ELECTRODES 67-02 M12-61253
HEAT TREATING BUILT-UP STAMPS 67-03 M10-65059
EFFECT OF HYDROGEN ON FORMATION OF WELD AFFECTED ZONE CRACKS IN WELDING HARDENING STEELS 67-03 M11-65048
RECLAIMING PIECES BY DOUBLE-ELECTRODE BUILD-UP USING POWDER WIRE IN CO2 67-03 M11-65057
BUILD-UP OF VALVE SEALING SURFACES IN CO2 67-03 M12-65058
PUTTING PLASMA TO WORK 67-04 M08-66579
HOT HARDNESS OF HARD SURFACED LAYER OF VARIOUS MATERIALS 67-04 M10-66454
CONTINUOUS MULTILAYER BUILDUP UNDER FLUX WITHOUT REMOVING THE SLAG SKIN 67-04 M11-66437
REPAIR OF GUIDE SEGMENTS FOR THE DONBASS COAL COMBINE 67-04 M11-66471
THE RECONDITIONING OF LARGE EQUIPMENT PARTS AT METAL WORKS 67-04 M11-66523
CONTACT BUILDUP OF THE SURFACES OF ROTATING BODIES 67-04 M11-67011
THE EFFECTS OF VIBROARC METAL DEPOSITION ON THE PHASE COMPOSITION OF GRADE 30KH10G10 STEEL 67-04 M11-67178

INDUCTION BUILDUP OF DISKS OF A BEET-HARVESTING COMBINE 67-04 M11-67815
NEW ELECTRODES FOR WEAR RESISTING HARDFACING 67-04 M11-67993
DETERMINATION OF THE DIMENSIONS OF HARDFACING FOR THE EDGE OF A HOT TRIMMING DIE 67-04 M12-66467
HIGH FREQUENCY HARDFACING OF THIN SHEET COMPONENTS 67-04 M12-66468
BUILDING UP MILL ROLLS WITH PP-2KH2V8 POWDER-FILLED WIRE 67-04 M12-66474
HARDFACING REPAIRS ON IRON AND STEELWORKS EQUIPMENT 67-04 M12-66476
LENGTHENING THE LIVES OF EXCAVATOR SCOOP TEETH 67-04 M12-66526
BUILDUP WITH A MELTED FILLER METAL 67-04 M12-66572
MECHANIZED BUILDUP OF VANES OF RADIAL-AXIAL HYDROTURBINE GEARS 67-04 M12-66573
RECLAIMING STEEL CASTING MOLDS BY BUILDUP 67-04 M12-66574
EFFECT OF CONDITIONS OF WIDE-LAYER BUILDUP ON SIZE OF BUILTUP LAYER 67-04 M12-66809
WEAR-RESISTANT BUILDUP OF PIECES OF BUCKET EXCAVATOR CHAINS 67-04 M12-66813
EFFECT OF COMPLEX FERROALLOYS IN THE COATINGS OF ELECTRODES ON THE PROPERTIES OF BUILTUP METAL 67-04 M12-66814
FEATURES OF THE TRANSITION ZONES DURING ELECTROSLAG METAL DEPOSITION USING COMPOSITE ELECTRODES 67-04 M12-67177
WORN SURFACES RECONDITIONED BY RESISTANCE WELDING 67-04 M12-67677
EFFECT OF COPPER IN THE COMPOSITION OF AN ALLOY ON THE WEAR RESISTANCE OF HARD WELD OVERLAYS 67-04 M17-66651
EXPERIENCE WITH RECLAIMING MOLDS AT THE KRIVOROG METALLURGICAL WORKS 67-05 M11-68323
HARD SURFACING BY OXYGEN-ACETYLENE FLAME, AIDED BY NI AND CO BASE ALLOYS 67-05 M12-69123
THE RECLAMATION OF WORN WHEELS BY AUTOMATIC SUBMERGED-ARC WELDING 67-05 M12-69428
INDUCTION HARDFACING OF DISCS OF BEET COMBINE HARVESTERS 67-06 M11-70315
MECHANIZED BUILDUP OF SEALING SURFACES 67-06 M11-70400
GRANULAR METAL FILLER METALS FOR ARC WELDING 67-06 M11-71680
RECLAMATION OF STEEL MILL ROLLS 67-06 M11-71826
USE OF SUBLAYER FOR ELECTROSLAG DEPOSIT WELDING OF G13 STEEL ON LOW-CARBON STEEL 67-06 M11-72308
RELIABILITY AND LIFE OF RECLAIMED CRANKSHAFTS OF TRACTOR MOTORS 67-06 M11-72310
MECHANIZED HARD SURFACING OF THE IMPELLERS OF A SUCTION DREDGE 67-06 M11-72311
VIBROARC DEPOSIT WELDING OF CAST IRON PARTS IN AIR STREAM 67-06 M11-72312
HARDNESS OF HARD SURFACING ALLOYS AT ELEVATED TEMPERATURES 67-06 M11-72331
HEAT TREATMENT OF HARDFACED DIES 67-07 M10-73976
CONTINUOUS MULTI-PASS SUBMERGED ARC METAL DEPOSITION WITHOUT REMOVAL OF THE SLAG CRUST 67-07 M11-72696
INCREASING THE LIFE OF PARTS BY MULTIELECTRODE DEPOSIT WELDING 67-07 M11-72741
EXPERIENCE OF RECONDITIONING INGOT MOLDS AT THE KRIVOI ROG IRON- AND STEEL- WORKS 67-07 M11-72851
BUILDING UP BY TWO-ELECTRODE CO2 SHIELDED HARDFACING WITH POWDER FILLED WIRE 67-07 M11-73979
THE SUBMERGED ARC WELDING OF BUILT-UP FACINGS WITH FLAT STRIP ELECTRODE MATERIAL 67-07 M12-72419
PROPERTIES AND CHARACTERISTICS OF HARD CHROMIUM COATINGS 67-07 M12-73077
BUILDING UP BY POURING MOLTEN FILLER METAL ONTO THE WORK 67-07 M12-73429
THE MECHANISED BUILDING UP OF RADIAL-AXIAL FLOW HYDRAULIC TURBINE RUNNER BLADES 67-07 M12-73430
STEEL LADLES RECONDITIONED BY BUILDING UP 67-07 M12-73431
CO2-SHIELDED HARDFACING ON THE SEATING SURFACES OF GATE VALVES 67-07 M12-73980
THE EROSION OF DEPOSITED METALS BY STREAMS OF ABRASIVE SUBSTANCES 67-07 M17-73426
HARD SURFACING OF SHIP SCREW PROPELLERS WITH STAINLESS STEEL 67-08 M11-74380
RESISTANCE HARDFACING ON AXIALLY SYMMETRICAL COMPONENTS 67-08 M11-74770
WEAR RESISTANCE BUILDUP OF DIES FOR BRIQUETTING LIGNITE 67-08 M11-75411
RECLAMATION OF OLD AND PRODUCTION OF NEW DROP FORGING DIES BY ELECTROSLAG WELDING 67-08 M11-75412
DETERMINING FUSION STRENGTH IN INDUCTION BUILDUP OF HARD ALLOYS 67-08 M11-75413
ANK-18 CERAMIC FLUX FOR MECHANIZED WEAR RESISTANT BUILDUP 67-08 M11-75414
INFLUENCE OF THE ELECTROSPARK ALLOYING ON HARDNESS AND WEAR RESISTANCE OF METALLIC SURFACES 67-08 M12-75428
EFFECT OF THE CONDITIONS ON THE DIMENSIONS OF WIDE BEADS OF DEPOSITED WELD METAL 67-08 M12-75913
BUILDING UP EXCAVATOR BUCKET LINE COMPONENTS WITH WEAR-RESISTANT METAL 67-08 M12-75917
THE EFFECTS OF COMPLEX FERROALLOYS IN ELECTRODE COATINGS ON THE DEPOSITED METAL 67-08 M12-75918
THE FIGHT AGAINST WEAR. HARD-SURFACING ALLOYS IN THE AUTOMOBILE INDUSTRY 67-08 M12-76298
EFFECT OF SOME OF THE HIGH-MELTING COMPOUNDS ON THE PROPERTIES OF A WELD-ON ALLOY 67-09 M11-76918
HARDFACING RAPIDLY WEARING COMPONENTS WITH TYPE 30KH10G10 WELD METAL 67-09 M11-77245
HARD SURFACING OF A DREDGE SCOOP 67-09 M11-77618
HARD SURFACING IN THE STEEL INDUSTRY--APPLICATIONS-PERSPECTIVES 67-09 M11-77974
MECHANIZED HARDFACING OF SEALING FACES 67-09 M11-78100
HARDSURFACING OF CAST IRON CRANKSHAFTS FOR GAZ-M-21 MOTORS 67-09 M11-78126
PERFORMANCE OF HARD SURFACED BELLS OF BLAST FURNACES 67-09 M11-78127
HARD SURFACING OF HOT STAMPING DIES 67-09 M12-76414
TEST OF THE WEAR RESISTANCE AND FATIGUE STRENGTH OF SPECIMENS BUILT UP WITH ALLOY WIRE 67-09 M17-76990
EFFECT OF FERRITE ON PROPERTIES OF AUSTENITIC WELD METAL 67-09 M17-77601
HARD FACING IMPROVES LIFE OF PRESS TOOLS 67-10 M08-79403
DISPERSION HARDENING ALLOYS FOR HARD SURFACING OF CUTTING TOOLS 67-10 M11-78410
STRENGTHENING VENTILATOR BLADES BY DEPOSIT WELDING WITH INDUCTION HEATING 67-10 M11-78413
MANUFACTURING CUTTING TOOLS BY DEPOSIT WELDING 67-10 M11-78414
INCREASING WEAR OF FORGING PRESS DIES 67-10 M11-78549
PERCUSSION WELDING 67-10 M11-79960
INFLUENCE OF SURFACE HARDENING ON MICROHARDNESS OF HARD SURFACED PARTS 67-10 M17-78408
RED HARDNESS OF HARDFACINGS OF DIFFERENT MATERIALS 67-11 M10-80995
BUILDING UP THE CONES OF BLAST FURNACE CHARGING EQUIPMENT 67-11 M11-80555
THE ABRASIVE WEAR RESISTANCE OF HIGH-CARBON CHROMIUM-MOLYBDENUM BUILT-UP METAL 67-11 M11-80643
GAS HEATING OF ROLLS DURING BUILDUP 67-11 M11-80644
STRUCTURE OF THE WELD AFFECTED ZONE IN BUILDUP ON G13L STEEL 67-11 M11-80650
HOW TO ATTACK WEAR 67-11 M11-80663
THE APPLICATION OF AN INTERLAYER BEFORE G13 STEEL IS DEPOSITED 67-11 M11-81580
THE RELIABILITY AND LIVES OF BUILT UP CRANKSHAFTS FOR VEHICLE AND TRACTOR ENGINES 67-11 M11-81582
BUILDING UP THE ROTORS OF SUCTION DREDGERS WITH WEAR-RESISTANT METAL 67-11 M11-81583
THE VIBRO-ARC DEPOSITION OF METAL ON CAST IRON COMPONENTS IN AN AIR CURRENT 67-11 M11-81584
IMPROVING FRICTIONAL BEHAVIOR WITH SURFACE TREATMENTS REQUIRING HEAT 67-11 M12-80902
COMPARATIVE WEARING CAPACITY OF CERTAIN METALS IN TOP GAS FLOWS 67-11 M17-81302
INCREASE IN THE WEAR RESISTANCE OF BLANKING DIES THROUGH SURFACE TREATMENT 67-12 M10-81937

HARD SURFACING

PROBLEMS IN THE ELECTROSLAG-COAT-WELDING OF CAST IRON 67-12 M11-81747
BUILDING UP THE DIES OF PRESSES USED FOR BRIQUETTING BROWN COALS WITH WEAR-RESISTANT METAL 67-12 M11-82032
RECONDITIONING WORN DROP STAMP DIES AND PRODUCING NEW DIES 67-12 M11-82033
DETERMINING THE FUSION ZONE STRENGTH WHEN HARD ALLOYS ARE DEPOSITED BY INDUCTION 67-12 M11-82034
THE ANK-18 CERAMIC FLUX FOR THE MECHANISED DEPOSITION OF WEAR RESISTANT METAL 67-12 M11-82035
SURFACING SHIPS PROPELLORS WITH STAINLESS STEEL 67-12 M11-82253
PROLONGING THE USEFUL LIFE OF COMPONENTS BY MULTI-ELECTRODE HARDFACING 67-12 M11-82320
MECHANIZED HARD SURFACING OF TRIMMING DIES 67-12 M11-82635
RESEARCH ON ELECTRIC ARC WELDING AND THE ARCOSAC METHOD OF HARD SURFACING RAILS 67-12 M11-83282
HARD SURFACING TECHNIQUES IN MECHANICAL CONSTRUCTION 67-12 M11-83505
EFFECTS OF BORON ON STRUCTURE AND PROPERTIES OF WELD DEPOSITED METAL 67-12 M11-83539
STUDY OF THE ABRASIVE WEAR OF MATERIALS UNDER ACTUAL CONDITIONS OF BLAST FURNACE OPERATION 67-12 M17-81728

HARD SURFACING, MATERIALS
INVESTIGATION OF THE JET-STREAM WEAR IN BUILT-UP METAL 67-04 M17-66569

HARD SURFACING, MATERIALS
THE FIGHT AGAINST WEAR. HARD SURFACING ALLOYS IN THE GLASS INDUSTRY
THE GLASS INDUSTRY 67-05 M20-69359

HARD SURFACING, OXIDATION
OXIDATION PROCESSES DURING AUTOMATIC BUILDING-UP OF STEELS WITH A COOLING LIQUID 67-01 M12-57527

HARDENABILITY
SEE ALSO CASE HARDENABILITY
QUENCH HARDENABILITY
STRAIN HARDENABILITY
CHANGE IN STRUCTURE AND HARDNESS OF 45 STEEL IN RELATION TO COOLING RATE 67-02 M10-61949
HARDENABILITY MEASUREMENTS. PT. 3 67-02 M17-60044
CREEP RESISTANCE OF WELDED JOINTS OF HEAT RESISTANT PEARLITIC STEELS 67-02 M17-61248
HIGH-STRENGTH STEELS WITH LOW NI CONTENT FOR LARGE SIZE FORGINGS 67-02 M17-61968
STRENGTHENING OF STRUCTURAL STEELS WITH ADDITIONS OF NITROGEN, VANADIUM AND ALUMINUM 67-02 M17-61973
HARDENABLE LOW-CARBON STEEL. U. S. STEELS Q-TEMP 67-04 M01-66293
HARDENABILITY OF 65S2VA STEEL 67-04 M10-66457
TECHNOLOGICAL FACTORS, DETERMINING THE SELECTION OF STEELS FOR FULL HARDENED RAILS 67-04 M10-66627
CHANGE IN STRUCTURE AND HARDNESS OF 45 STEEL DEPENDING ON COOLING RATE 67-04 M10-67783
SOME EFFECTS OF HEAT TREATMENT ON THE PROPERTIES OF HIGH-SPEED TOOL STEEL. PT. 1 67-04 M10-68062
DETERMINING THE AMOUNT OF AUSTENITE IN MULTI-PHASE HARD DEPOSITED METAL 67-04 M12-67174
INFLUENCE OF A PIG IRON CONTAINING VANADIUM AND TITANIUM ON THE SURFACE HARDENABILITY OF CAST IRON WITH FLAKE-TYPE GRAPHITE 67-04 M17-66183
INFLUENCE OF ARSENIC ON HARDENABILITY OF QUALITY CARBON STEEL 67-04 M17-66375
THE HEAT RESISTANCE OF WELDED JOINTS IN HIGH TEMPERATURE PEARLITIC STEEL 67-04 M17-66521
AUTOMATIC TESTING AND RECORDING OF JOMINY CURVES 67-04 M17-66886
STEEL WITH LOW HARDENABILITY FOR TRACTOR PARTS 67-04 M20-67957
QUALITY OF STEEL FROM CONTINUOUSLY CAST BILLETS. PT. 2. QUALITY OF SPRING STEEL FROM CONTINUOUSLY CAST BILLETS 67-05 M01-68731
EFFECTS OF COLD PLASTIC DEFORMATION ON THE HARDENABILITY OF STEEL 67-06 M17-70094
HARDENABILITY MEASUREMENTS. PT. 4 67-06 M17-70829
PROBLEMS WITH VANADIUM IN FERROUS METALLURGY 67-06 M17-71122
IMPROVED HARDENABILITY OF STEELS QUENCHED FROM FORGING AND ROLLING TEMPERATURES 67-07 M17-74196
CORROSION RESISTANT STEELS, ESPECIALLY FOR COLD ROLLED SHEET AND STRIP APPLICATIONS 67-08 M17-76290
EFFECT OF CALCIUM AND ALUMINUM ON THE ACTIVITY OF IRON-SILICON AS INOCULANT FOR GRAY CAST IRON 67-10 M04-78482
COOLING TRANSFORMATION DIAGRAM FOR AISI 8620 67-10 M10-78761
HEAT TREATMENT OF STRUCTURAL STEELS AND OF TOOL STEEL 67-10 M10-79681
HIGH-STRENGTH STEELS WITH A LOW NICKEL CONCENTRATION FOR LARGE FORGED PIECES 67-10 M17-78825
HARDENABILITY OF 65S2VA STEEL 67-11 M10-80998
THE HARDENING BEHAVIOR OF VACUUM MELTED STEELS 67-11 M17-80214
HARDENABILITY OF NICKEL ALLOY STEELS 67-12 M17-81808

HARDENABILITY, ALLOYING EFFECTS
STUDY ON TRANSFORMATION FEATURES OF CARBURIZING CR-MO STEELS 67-01 M14-58309
THE HARDENABILITY OF CAST IRON 67-02 M10-59401
COOLING TRANSFORMATION DIAGRAMS FOR AISI 1036 AND 10B36 67-02 M14-59462
THE EFFECT OF ALLOYING ELEMENTS ON THE PROPERTIES OF THE WELDABLE HIGH STRENGTH STEEL. PT. 1. THE EFFECT OF ALLOYING ELEMENTS ON THE MECHANICAL PROPERTIES OF NORMALIZED HIGH STRENGTH STEEL. PT. 2. THE EFFECT OF ALLOYING ELEMENTS ON THE HARDENABILITY, MECHANICAL PROPERTIES AND WELDABILITY OF QUENCHED AND TEMPERED HIGH STRENGTH STEEL 67-03 M17-65821
EFFECTS OF NI AND CR ON SOME PROPERTIES OF PLAIN CARBON STEEL 67-04 M17-67561
THE EFFECT OF CR AND MN ADDITIONS ON THE LOW-TEMPERATURE NOTCHED IMPACT STRENGTH OF 14NI6 --FRIDUCTILE N2-- STEEL 67-08 M17-75065
INFLUENCE OF RARE EARTH METALS ON HARDENABILITY OF STEEL 67-08 M17-75886
POSSIBLE APPLICATIONS OF TUNGSTEN CASE-HARDENING STEELS 67-09 M10-77885
THE INFLUENCE OF ALLOYING ELEMENTS ON THE PROPERTIES, ESPECIALLY TEMPERATURE ENDURANCE, OF CAST IRON WITH LAMELLAR GRAPHITE 67-09 M17-76519
AUSROLLING RAIL STEEL CONTAINING HIGHER AMOUNTS OF MANGANESE AND SILICON 67-10 M07-79330
INFLUENCE OF CERTAIN ALLOYING ELEMENTS ON THE HARDENABILITY OF AFNOR Z6C13 STEEL 67-10 M17-78677
TOUGHENING OF IMPROVED STRUCTURAL STEELS WITH SMALL AMOUNTS OF NITROGEN, VANADIUM, AND ALUMINUM 67-10 M17-78830
INFLUENCE OF COPPER UPON STRUCTURE AND MECHANICAL PROPERTIES OF GREY CAST IRON--RESULTS OF A SYSTEMATIC INVESTIGATION 67-11 M17-80239
EFFECT OF ARSENIC ON THE HARDENABILITY OF HIGH-GRADE CARBON STEELS 67-11 M17-80977
INFLUENCE OF COPPER ON HARDENABILITY OF GRAY IRON 67-12 M10-82359
ALLOYING OF STEELS FOR PETROLEUM INDUSTRY TUBING 67-12 M10-83536
EFFECT OF COMBINED ALLOYING WITH MANGANESE, TUNGSTEN AND MOLYBDENUM ON THE CORROSION FATIGUE AND CORROSION RESISTANCE OF SHKH 15 STEEL 67-12 M18-82191

HARDENABILITY, COMPOSITION EFFECTS
RETAINING THE HARDENING EFFECT OF BORON IN STEELS 67-02 M10-59461

HARDENABILITY, HEATING EFFECTS
INFLUENCE OF THE AUSTENITIZING HEATING RATE ON THE PROPERTIES OF QUENCHED AND TEMPERED STEELS 67-09 M17-77306

HARDENABILITY, IMPURITY EFFECTS
EFFECT OF RESIDUALS IN STEEL FOR WIRE 67-06 M04-72023

HARDENABILITY, QUALITY CONTROL
THE EDDY CURRENT METHOD USED FOR CONTROLLING THE EFFECTIVENESS WITH WHICH PRODUCTS MADE OF FERROMAGNETIC SUBSTANCE ARE HARDENED 67-10 M19-78381
AN ELECTROMAGNETIC DEVICE FOR CONTROLLING THE DEPTH OF THE HARDENED LAYER ON COMPONENTS TREATED WITH HIGH-FREQUENCY CURRENT 67-10 M19-78969

HARDENABILITY /QUENCH/

SEE QUENCH HARDENABILITY
HARDENING
SEE ALSO AGING /METALLURGICAL/
ARTIFICIAL AGING /METALLURGICAL/
MARAGING
NATURAL AGING /METALLURGICAL/
PRECIPITATION HARDENING
SECONDARY HARDENING
STRAIN AGING
STRAIN HARDENING
THE USE OF EXPLOSIVE ENERGY IN THE DEFORMATION AND WELDING OF METALS 67-01 M07-57990
THE EFFECT OF MOLYBDENUM, TUNGSTEN AND VANADIUM ON THE ANNEAL HARDENING OF COLD WORKED 18 CR-12 NI STAINLESS STEEL 67-02 M17-60147
THE PROPERTIES OF LOW-CARBON MARTENSITE. INTRODUCTION 67-02 M17-61695
SURFACE HEAT TREATMENT OF CAST IRON 67-03 M10-65179
DIFFICULTIES IN TREATING TOOLS WITH INSERTED ENDS 67-03 M10-65182
HIGH STRENGTH STEELS. PT. 3 67-03 M10-65835
METHOD FOR WORKING STEEL 67-04 M17-67443
THE TEMPERING BEHAVIOR OF THE 34CR4 ALLOY --BSO-- AND 41CR4 --BSO SPECIAL-- STEELS 67-04 M17-67710
INITIAL AND CONTINUING EDUCATION IN THE FIELD OF HEAT TREATING AND HARDENING TECHNOLOGY. PT. 9 67-06 M10-71274
NEW HEAT TREATMENT DEPARTMENT AND WAREHOUSE FOR KAYSER ELLISON & CO. LTD 67-06 M10-71298
INFLUENCE OF THERMAL HARDENING ON STRUCTURE AND PROPERTIES OF HEAT RESISTANT ALLOYS 67-06 M17-72347
THE BRIGHT-HARDENING OF VERY THIN-WALLED PARTS IN AN EXISTING MULTIPURPOSE RETORT FURNACE 67-07 M10-74214
THE THEORY OF MAGNETIC HARDNESS OF PLATINUM COBALT 67-07 M15-72956
EFFECTS OF IRRADIATION IN IRON AND STEELS 67-07 M17-73378
THERMAL HARDENING OF REINFORCING RODS AT THE MAKEEVKA METALLURGICAL WORKS 67-09 M10-76861
EXPERIMENTS ON THE DEFORMATION OF NIOBIUM SINGLE CRYSTALS. PT. 1. STRESS VERSUS STRAIN CURVES AND SLIP SYSTEMS IN COMPRESSION AND TENSION 67-09 M17-76585
HEAT TREATED CLASS AT-V AND AT-VI --35GS-- STEELS 67-09 M17-76970
CEMENTATION HARDENING BY INDUCTION HEATING IN A LIQUID MEDIUM 67-12 M10-83106
THE PHYSICAL NATURE OF HOW STEELS ARE HARDENED BY LIGHT PULSES 67-12 M16-83308
HARDENING, COMPOSITION EFFECTS
THE EFFECT OF THE MN CONTENT OF BLAST FURNACE SLAGS ON THE HYDRAULIC QUALITY OF THE FURNACE 67-08 M04-75506
HARDENING, HEATING EFFECTS
INFLUENCE OF AUSFORMING ON HARDNESS OF 18-4-1 HIGH SPEED STEEL 67-09 M17-78140
HARDENING, LASERS
STRENGTHENING OF STEELS WITH LASER BEAMS 67-08 M10-76042
STRENGTHENING OF A HARD ALLOY BY LASER BEAM 67-09 M17-77286
HARDENING, RADIATION EFFECTS
CHANGE IN THE MICROHARDNESS DURING THE STRENGTHENING OF METALS AND ALLOYS BY NUCLEAR IRRADIATION 67-02 M17-60897
IRRADIATION HARDENING AND EMBRITTLEMENT IN BODY-CENTERED CUBIC TRANSITION METALS 67-07 M17-73376
HARDENING FURNACES
AICHELIN NON-OXIDIZING HEAT TREATING PLANT FOR STEEL FORGINGS AT THE PASSAU GEAR WHEEL FACTORY 67-01 M10-57212
FURNACE VERSATILITY IS KEY TO SUCCESS FOR NEW COMMERCIAL HEAT TREATER 67-05 M10-69200
HARDNESS
SEE ALSO BRINELL HARDNESS NUMBER
MICROHARDNESS
SURFACE HARDNESS
INFLUENCE OF TUNGSTEN AND CARBON CONTENTS ON THE MICROSTRUCTURE AND PROPERTIES OF A COBALT-BASE HARDFACING ALLOY 67-01 M01-58649
DETERMINATION OF THE VICKERS HARDNESS OF ELECTRODEPOSITED COATINGS 67-01 M12-58390
INFLUENCE OF AUSFORMING ON HARDNESS OF 18-4-1 HIGH SPEED STEEL 67-01 M17-57499
THE STRUCTURAL DEPENDENCE OF THE PROPERTIES OF TUNGSTEN CARBIDE-COBALT ALLOYS 67-01 M17-57924
INVESTIGATION OF THE ANISOTROPY OF MICROHARDNESS IN BE, TE, SB, INBI, IN2TE3 SINGLE CRYSTALS AND TE-SE SOLID SOLUTIONS 67-01 M17-58096
CAST IRON AND BRINELL HARDNESS. PT. 1 67-01 M17-58119
HARDNESS DETERMINATION BY MEASURING THE DEPTH OF PENETRATION 67-01 M17-58123
ALUMINUM AND ALUMINUM ALLOYS IN SHEET, PLATE AND TUBE FORM 67-01 M17-58306
THE TECHNOLOGY OF HIGH SPEED STEELS. PT. 1 67-01 M17-58720
STABILIZATION OF RETAINED AUSTENITE IN COBALT-VANADIUM HIGH-SPEED STEEL 67-02 M10-59951
BASIC HEAT TREATING PRACTICES 67-02 M10-60863
THE KINETICS OF AGING REACTIONS IN 18 PER CENT NI MARAGING STEELS 67-02 M14-59425
STRUCTURE OF THE DIFFUSION LAYER OF A CARBON-ANTIMONY TREATED STEEL 67-02 M14-60073
INVESTIGATION OF THE MAGNETIC PROPERTIES AND HARDNESS IN IRON-COBALT ALLOYS 67-02 M15-59919
MECHANICAL PROPERTIES AND STRUCTURE OF METAL-CERAMIC SHEET MOLYBDENUM FOR DEEP DRAWING 67-02 M17-59406
CALCULATION OF THE WORK-HARDENING CHARACTERISTICS OF TENSILE TESTED POLYCRYSTALLINE METALS 67-02 M17-59718
IMPROVEMENT OF SURFACE HARDNESS OF QUENCHED ALLOY STEEL BY WORK HARDENING AND TEMPERING AT 200 C 67-02 M17-59772
STRUCTURE AND CUTTING PROPERTIES OF SMALL SIZE DRILL BITS OF R18 TOOL STEEL 67-02 M17-59774
INFLUENCE OF HEAT TREATMENT ON LIFE OF SHKH15 CR MARKERS 67-02 M17-59775
EFFECT OF MOISTURE CONTENT IN TITANIUM SPONGE ON INGOT HARDNESS 67-02 M17-60572
RELATION BETWEEN THE HARDNESS AND STRENGTH OF TUNGSTEN AND MOLYBDENUM OVER A WIDE TEMPERATURE RANGE 67-02 M17-60581
CORRELATIONAL RELATIONSHIP BETWEEN HARDNESS AND TENSILE STRENGTH DURING STRETCHING FOR HIGH-STRENGTH MAGNESIUM IRONS 67-02 M17-60672
TEMPERATURE DEPENDENCE OF THE HARDNESS OF LANTHANUM AND NEODYMIUM IN THE RANGE 77-293 K 67-02 M17-61939
PROPERTIES OF 2KH13L STEEL IN MARTENSITIC STATE 67-02 M17-61991
POSSIBILITIES OF MEASURING AND REGULATING THE C-POTENTIAL DURING GAS-CARBURIZING AND ITS PRACTICAL SIGNIFICANCE 67-03 M10-65175
BEHAVIORS OF THE PRECIPITATES OF 17-4PH STAINLESS STEEL BY THE ARC WELDING HEAT 67-03 M14-65842
INFLUENCE OF CHARGED DEFECTS ON MECHANICAL PROPERTIES OF LEAD SULFIDE 67-03 M17-65880
PRECIPITATION IN AUSTENITIC STAINLESS STEELS CONTAINING TANTALUM 67-04 M10-67194
PRECIPITATION HARDENING IN BCC BINARY ALLOYS. PROGRESS REPORT TO MARCH 1966 67-04 M10-68160
INFLUENCE OF MOLYBDENUM ON THE STRUCTURE AND PROPERTIES OF A CARBIDE-BEARING AUSTENITIC STEEL 67-04 M17-67023
METHOD FOR WORKING STEEL 67-04 M17-67443
INVESTIGATION OF R12 STEEL 67-04 M17-67962
THE INFLUENCE OF WELDING HEAT ON THE MECHANICAL PROPERTIES OF ALLOY ATSM 67-05 M11-68264
EVALUATION OF MECHANICAL PROPERTIES OF 2014-T6 WELDMENTS BY NONDESTRUCTIVE --EDDY CURRENT-- METHODS 67-05 M19-69086
NATIONAL METALLURGICAL LABORATORY, ANNUAL REPORT 67-06 M01-71435
DETERMINATION OF THE HARDNESS OF METALS--A PLASTIC PROCESS, ITS LAWS AND RELATIONSHIPS TO OTHER TECHNOLOGICAL CHARACTERISTICS 67-06 M17-70036
THE INFLUENCE OF SUBSTRATE HARDNESS ON THE FORMATION AND ENDURANCE OF MOLYBDENUM DISULPHIDE FILMS 67-06 M17-71030
DEFORMATION AND ISOTHERMAL ANNEALING BEHAVIOR OF NICKEL 67-06 M17-71042
THE HEAT-TREATABILITY AND PROPERTIES OF URANIUM ALLOYS 67-07 M01-73829
METALLURGICAL PROPERTIES OF IRON-ORE PELLETS OBTAINED BY NONFIRING METHODS 67-07 M02-73017

HEAT TREATMENT OF HARDFACED DIES
67-07 M10-73976
MAGNETIC PROPERTIES AND HARDNESS OF IRON-COBALT ALLOYS 67-07 M15-72574
MECHANICAL PROPERTIES OF ELECTRODEPOSITED IRON FROM SULFATE BATH--CONDITIONS OF ELECTRODEPOSITION 67-07 M17-72602
RELATIONSHIP BETWEEN STRUCTURE, CREEP BEHAVIOR, AND HARDNESS OF ALLOYS IN THE WC-TIC-CO SYSTEM 67-07 M17-72679
STUDIES ON THE MECHANICAL PROPERTIES OF HOT EXTRUDED BERYLLIUM AT ELEVATED TEMPERATURES 67-07 M17-72984
WEAR-RESISTING CLAD PLATE AND ITS USE IN THE PRODUCTION OF LARGE-DIAMETER TUBE 67-07 M17-73023
CORRELATION BETWEEN HARDNESS AND ULTIMATE TENSILE STRENGTH FOR HIGH-TENSILE MAGNESIUM CAST IRONS --EXCHANGE OF EXPERIENCE-- 67-07 M17-73108
RELATIONSHIP OF THE MECHANICAL PROPERTIES OF THE HEAT AFFECTED ZONE IN STRUCTURAL STEELS TO THE THERMAL WELDING CYCLE 67-07 M17-73966
THE COMPRESSIVE STRENGTH OF CAST IRON AND STEEL 67-07 M17-74035
COLUMBIUM AND TANTALUM ALLOY DEVELOPMENT 67-08 M01-74672
PROCESSES OF MANUFACTURING ANISOTROPIC POWDER COMPOSITES AND DEVELOPMENT OF PRODUCTION PLANS 67-08 M09-75451
CHANGES IN STRUCTURE AND PROPERTIES OF AL-5 PER CENT ZN-1 PER CENT MG AND AL-5.5 PER CENT GE ALLOYS DURING AGING 67-08 M10-74628
STUDY OF THE NI3AL-NI3TI SYSTEM 67-08 M13-75890
STRUCTURAL CHANGES IN CHROMIUM DURING STRAIN 67-08 M14-75881
PROPERTIES OF COMMERCIAL WROUGHT ALLOYS 67-08 M17-74810
STRUCTURE AND HARDNESS OF AUSFORMED OR DEFORMED FERROUS MARTENSITES 67-08 M17-75151
DETERMINING THE STRENGTH AND PLASTICITY OF NODULAR IRON IN CRANKSHAFT CASTINGS BY THEIR HARDNESS 67-08 M17-75199
INTERDEPENDENCE BETWEEN THE FLAKE-FORMING SUSCEPTIBILITY OF STEEL, HYDROGEN CONTENT AND HEAT TREATING CONDITIONS 67-08 M17-75285
MECHANICAL PROPERTIES OF PURE ALUMINUM WIRE. STUDIES ON FABRICATION OF ULTRA FINE WIRE OF ALUMINUM AND ALUMINUM ALLOYS. PT. 1 67-08 M17-75375
EFFECT OF PRIOR PLASTIC DEFORMATION OF AUSTENITE ON MS IN AN FE-26 PER CENT NI-0.4 PER CENT C ALLOY 67-08 M17-75818
INCREASE OF SURFACE HARDNESS OF QUENCHED ALLOYED STEEL BY COLD WORKING AND TEMPERING AT 200 C 67-08 M17-76130
INFLUENCE OF HEAT TREATMENT ON THE STRENGTH OF SHKH15 STEEL STAMPS 67-08 M17-76132
STRUCTURE AND CUTTING PROPERTIES OF SMALL DRILLS MADE OF R18 STEEL 67-08 M17-76133
MECHANICAL STRENGTH OF FE-AL40 AFTER QUENCHING 67-08 M17-76216
PROPERTIES OF AL-MG-FE ALLOY OBTAINED BY SINTERING OF ATOMIZED POWDERS 67-09 M09-78256
MECHANICAL PROPERTIES OF CHROMIUM DIFFUSION COATINGS 67-09 M12-76435
MECHANICAL PROPERTIES AND COMPATIBILITY OF URANIUM-PLUTONIUM CARBIDES 67-09 M17-76341
A NOTE ON THE INFLUENCE OF CUTTING SPEED ON THE HARDNESS OF FLAME CUT BS. 968 --1962-- STEEL 67-09 M17-76359
HOT HARDNESS OF SELECTED BORIDES, OXIDES AND CARBIDES TO 1900 C 67-09 M17-76752
HEAT CONDUCTIVITY, STRENGTH AND COMPOSITION OF SOME CAST IRON MATERIALS 67-10 M15-79783
HIGH-MANGANESE STEEL HARDENED BY EXPLOSION 67-10 M17-78377
PROPERTIES OF 2KH13L STEEL WITH A MARTENSITE STRUCTURE 67-10 M17-78848
DEVELOPMENT AND INVESTIGATION OF HEAT RESISTANT STEELS ALLOYED WITH COBALT 67-10 M17-78945
AL-SI CASTING ALLOYS WITH HIGH-SI CONTENT 67-11 M06-80459
REVERSION AND AGING PROCESSES IN AL-ZN-MG ALLOYS 67-11 M11-80392
WELDING EI993 STEEL STEAM SUPERHEATER PIPES 67-11 M11-80648
PHOTOMECHANICAL EFFECT AND ANOMALIES IN THE PROPERTIES OF CERTAIN ELEMENTS 67-11 M15-80168
USE OF THE SCRATCH METHOD FOR STUDYING ANISOTROPY IN THE PROPERTIES OF CERTAIN CRYSTALS WITH BONDS OF A PREDOMINANTLY COVALENT CHARACTER 67-11 M15-80171
SUPERCONDUCTIVITY AND HARDNESS 67-11 M16-80773
THE INFLUENCE OF REMELTING UNDER VACUUM ON THE PROPERTIES OF HOT WORKED STEELS 67-11 M17-80216
PROPERTIES OF A NEW 2 PER CENT CR-MO-V-AL NITRIDING CREEP-RESISTING STEEL - HK 5 67-11 M17-80274
INTERNAL OXIDATION OF AGAL AND AGMG ALLOYS 67-11 M17-80345
THE ANISOTROPY OF KNOOP HARDNESS IN UNALLOYED TITANIUM SHEET 67-11 M17-80683
THE EFFECTS OF AUSFORMING ON THE MECHANICAL PROPERTIES OF 0.2 PER CENT C-3 PER CENT NI-2 PER CENT MO STEEL 67-11 M17-80947
STUDIES OF MALLEABLE IRON CASTINGS WITH SPHEROIDAL GRAPHITE. PT. 1. THE PRODUCTION AND MECHANICAL PROPERTIES OF MALLEABLE IRON CASTINGS WITH SPHEROIDAL GRAPHITE 67-11 M17-80956
STUDIES OF MALLEABLE IRON CASTINGS WITH SPHEROIDAL GRAPHITE. PT. 2. THE PROPERTIES OF MALLEABLE IRON CASTINGS WITH SPHEROIDAL GRAPHITE 67-11 M17-80957
EFFECT OF LOWER BAINITE ON MECHANICAL STRENGTH AFTER TEMPERING 67-11 M17-81145
THE EFFECT OF HEAT TREATMENT ON THE PROPERTIES OF THE HIGH-SPEED TOOL STEEL, X 85 W MO CO 6.5.5 67-12 M10-82932
THICKNESS AND HARDNESS MEASUREMENTS OF ELECTRODEPOSITS 67-12 M12-81751
STRUCTURAL EFFECTS IN PULSED STRAINING OF LOW-CARBON STEEL 67-12 M13-81716
QUENCHED AND TEMPERED NICKEL ALLOY STEELS 67-12 M17-81803
ANNEALED, HOT ROLLED, AND NORMALIZED NICKEL ALLOY STEELS 67-12 M17-81805
EXAMINATION OF THE METASTABLE BETA-ALLOYS OF THE TI-MO-FE-AL SYSTEM 67-12 M17-82120
STRUCTURE AND MECHANICAL PROPERTIES OF WC-TAC-CO SINTERED CARBIDES 67-12 M17-82160
RESIDUAL DEFORMATION AND HARDENING DURING EXPLOSIVE TREATMENT OF METALS 67-12 M17-82348
HARDNESS CHANGE OF FERROUS MARTENSITE BY DEFORMATION 67-12 M17-82396
THE EFFECT OF PREFERRED ORIENTATION ON THE MECHANICAL PROPERTIES AND DEFORMATION BEHAVIOR OF ZIRCALOY-2 FUEL SHEATHING 67-12 M17-82571
SILICEOUS FERRITIC MALLEABLE CAST IRON 67-12 M17-82619
MECHANICAL PROPERTIES AND INTERNAL STRESSES OF FIRST ORDER OF COLD-DEFORMED CONCRETE REINFORCING STEEL BARS 67-12 M17-83396
THE QUALITY ANALYSIS OF UNALLOYED WHITE IRON 67-12 M17-83483
EROSION OF METALS BY SOLID PARTICLES 67-12 M18-81856

HARDNESS, ALLOYING EFFECTS
STUDY ON TRANSFORMATION FEATURES OF CARBURIZING CR-MO STEELS 67-01 M14-58309
STUDIES OF THE QUALITY, RELAXATION AND WEAR RESISTING PROPERTIES OF VANADIUM HIGH-GRADE CAST IRON 67-01 M17-58742
THE HARDENABILITY OF CAST IRON 67-02 M10-59401
THE EFFECTS OF ADDITIONAL ELEMENTS ON DISCONTINUOUS PRECIPITATION IN COPPER-BERYLLIUM ALLOYS 67-02 M14-59128
INFLUENCE OF COPPER ON AL-SI-CU SYSTEM DIE CASTING ALLOYS 67-02 M17-59728
SOME PROPERTIES OF WC-20 PER CENT CO AND WC-5 PER CENT TAC-20 PER CENT CO ALLOYS 67-02 M17-60151
INFLUENCE OF ADDING CERIUM ALLOY MM5 ON THE PROPERTIES OF HEAT-RESISTING ALUMINIUM-SILICON CAST IRONS 67-02 M17-61199
DETERMINING THE QUALITY OF TITANIUM SPONGE BY ITS HARDNESS 67-02 M17-61284
INFLUENCE OF ZIRCONIUM ON STRAIN AGING OF STEEL 67-02 M17-61969
PIG IRON WITH A HIGH CONTENT OF MANGANESE FOR CASTING WEAR-RESISTANT PARTS 67-04 M17-67440
INFLUENCE OF MOLYBDENUM ON THE PROPERTIES OF KH15N85 ALLOY 67-05 M17-68357
EFFECT OF ALLOYING ELEMENTS ON THE FORMABILITY OF CAST RE 67-05 M17-68978
EFFECTS OF RARE ELEMENTS ON THE PROPERTIES OF

AL10V ALLOY 67-06 M17-70096
MECHANICAL PROPERTIES, STRUCTURE AND INOCULATION TREATMENT OF ANTIMONY-BEARING CAST IRON 67-07 M17-73261
MECHANICAL PROPERTIES OF NODULAR CUPOLA IRON 67-07 M17-74052
MONEL METAL-BASE POWDER COMPOSITE COMPACTING MATERIAL 67-08 M09-74913
THE STRUCTURE AND WEAR RESISTANCE OF A NICKEL-FREE POWDERED HARD ALLOY WITH A HIGH MANGANESE CONTENT 67-08 M17-74863
INFLUENCES OF THE ADDITIONAL ELEMENTS ON SOME PROPERTIES OF HIGH-ZIRCONIUM CU ZR ALLOYS 67-09 M01-77249
AGING CHARACTERISTICS OF SOME ALUMINIUM-ZINC-MAGNESIUM ALLOYS 67-09 M10-78136
COMPOSITIONAL AND PRESSURE EFFECTS IN THE PLUTONIUM-GALLIUM SYSTEM 67-09 M15-76308
THE INFLUENCE OF ALLOYING ELEMENTS ON THE PROPERTIES, ESPECIALLY TEMPERATURE ENDURANCE, OF CAST IRON WITH LAMELLAR GRAPHITE 67-09 M17-76519
THE INFLUENCE OF URANIUM ON THE PROPERTIES OF GRAY IRON 67-09 M17-77811
INFLUENCE OF CERTAIN ALLOYING ELEMENTS ON THE HARDENABILITY OF AFNOR Z6C13 STEEL 67-10 M17-78677
EFFECT OF ZIRCONIUM ON THE SUSCEPTIBILITY OF STEEL TO STRAIN AGING 67-10 M17-78826
INFLUENCE OF PRECIPITATES ON THE MECHANICAL PROPERTIES OF ZR-CU ALLOYS 67-11 M17-80149

HARDNESS, COMPOSITION EFFECTS
VARIATIONS IN SOME PROPERTIES OF SINTERED TUNGSTEN CARBIDE-COBALT ALLOYS WITH PARTICLE SIZE AND BINDER COMPOSITION 67-01 M15-58743
THE EFFECT OF NITROGEN ON THE TENSILE AND CREEP-RUPTURE PROPERTIES OF NIOBIUM 67-01 M17-58459
EVALUATION ON THE QUALITY OF FLAKE GRAPHITE CAST IRON 67-03 M17-65843
PROPERTIES OF IODIDE-TYPE HAFNIUM AND ALLOYS IN THE ZIRCONIUM-HAFNIUM SYSTEM 67-10 M17-79628
HOT HARDNESS BEHAVIOR OF IRON-CHROMIUM ALLOYS 67-12 M17-83061

HARDNESS, COOLING EFFECTS
EFFECTS OF THE HARDNESS OF 45 STEEL, RESULTING FROM QUENCHING IT, ON ITS ENDURANCE AFTER HIGH-TEMPERATURE TEMPERING 67-10 M17-78933

HARDNESS, HEATING EFFECTS
ON REVERSION PHENOMENA OF CU-CR ALLOYS 67-02 M14-59985
EFFECT OF PREVIOUS COLD WORKING ON RAPID HEATING AND QUENCHING OF A PLAIN CARBON STEEL 67-02 M17-59118
ON THE AGE HARDENING OF MN-CR AUSTENITE NONMAGNETIC STEELS CONTAINING VANADIUM 67-02 M17-59980
ON THE MECHANICAL PROPERTIES OF TI-AL-CO ALLOYS AT ROOM TEMPERATURE 67-02 M17-59989
A METHOD OF DETERMINING THE RED HARDNESS OF HIGH-SPEED ALLOYS 67-06 M17-70290
ON THE TEMPERING BEHAVIOR OF 3CR-W, 3CR-W-CO AND 12CR-W-CO-TYPE TOOL STEELS FOR HOT WORK 67-06 M17-70584
STRENGTHENING OF SAPPHIRE BY PRECIPITATES CONTAINING TITANIUM 67-07 M10-72829
THE CHANGE OF HARDNESS IN 18-8 STAINLESS STEEL DURING THERMAL FATIGUE 67-07 M17-72981
CONTROLLING HARDNESS OF TEMPERED STEEL 67-08 M10-74457
ROOT STRENGTH OF FLAME-HARDENED AND BATH-NITRIDED SPUR GEARS 67-08 M17-74759
HARDNESS INCREMENT OF TOOL STEEL BY COMPRESSION QUENCHING 67-09 M10-78224
TOUGHNESS AND STRENGTH OF HARDENED TOOL STEELS 67-11 M17-80342
EFFECT OF HEAT TREATING CONDITIONS ON THE PROPERTIES OF SINTERED IRON MATERIALS. PT. 1. THE EFFECT OF HARDENING AND CASE-HARDENING TEMPERATURES ON SOME PROPERTIES OF VARIOUS SINTERED IRON MATERIALS 67-12 M09-82840
HEAT TREATMENT OF CAST HIGH CARBON MULTIALLOYED ALLOY 67-12 M10-81720
EFFECT OF THE DEGREE OF STRUCTURAL DISPERSION ON THE PROPERTIES OF CAST MEDIUM-CARBON STEEL 67-12 M10-82192
EFFECT OF ANNEALING ON HARDNESS AND ABRASIVE WEAR OF AUSTENITIC MANGANESE CAST IRON 67-12 M17-81840
THE INFLUENCE OF STRAIN HARDENING ON THE HARDNESS AND THE STRUCTURE OF THE MAGNESIUM-ZINC ALLOY OF 6 PER CENT ZINC, QUENCHED AND THEN TEMPERED AT 250 C 67-12 M17-82234
STRENGTH AND WORK-HARDENING BEHAVIOR OF THE 100CR6 TOOL STEEL AS A FUNCTION OF HEAT TREATMENT 67-12 M17-82839

HARDNESS, IMPURITY EFFECTS
THE EFFECTS OF OXYGEN ON THE MECHANICAL AND CORROSION PROPERTIES OF HAFNIUM 67-01 M17-58457
THE EFFECT OF THE DEGREE OF PURITY ON SOME PROPERTIES OF HIGH-MELTING MATERIALS 67-05 M14-68580

HARDNESS, NONDESTRUCTIVE TESTING
ULTRASONIC HARDNESS TESTING--QUICK AND NONDESTRUCTIVE 67-02 M19-60776

HARDNESS, PRESSURE EFFECTS
EFFECT OF PRESSING WITH A HIGH-PRESSURE APPARATUS ON WC-CO HARD METALS 67-05 M17-69864

HARDNESS, RADIATION EFFECTS
THE EFFECT OF NEUTRON IRRADIATION ON SOME MECHANICAL PROPERTIES OF DIAMOND. PT. 2. THE POLISHING OF DIAMOND 67-07 M16-73831
WEAKENING EFFECT OF NEUTRON IRRADIATION ON CAST IRON 67-08 M17-74549

HARDNESS, STRESS EFFECTS
HIGH HARDNESS OF ELECTROLYTIC IRON RESIDUES 67-04 M17-67840

HARDNESS, TEMPERATURE EFFECTS
HARDNESS OF SINGLE BERYLLIUM CRYSTALS FROM ROOM TEMPERATURE TO 400 C 67-04 M17-67573
HIGH-TEMPERATURE BEARING MATERIALS 67-07 M20-74055
MECHANICAL PROPERTIES OF HOT EXTRUDED OR HOT PRESSED DISPERSION STRENGTHENED IRONS CONTAINING AL2O3, MGO AND SIO2 PARTICLES 67-08 M17-74422
TEMPERATURE DEPENDENT SHEAR RUPTURE IN LOW CHROMIUM AND MOLYBDENUM STEELS 67-09 M17-78231
THE EFFECT OF TEMPERATURE ON THE HARDNESS ANISOTROPY OF BERYLLIUM SINGLE CRYSTALS 67-09 M17-78259

HARDNESS TESTS
SEE ALSO BRINELL HARDNESS TESTS
KNOOP HARDNESS TESTS
ROCKWELL HARDNESS TESTS
EFFECT OF LOAD ON THE HIGH-SPEED CONE HARDNESS NUMBER 67-01 M17-58056
PROBLEM OF THE INTERRELATION BETWEEN THE SPEED, TEMPERATURE AND FORCE INDICES OF HARDNESS NUMBERS 67-01 M17-58136
STATIC AND DYNAMIC STRENGTH AND HARDNESS CONTROL OF LARGE FORGINGS AND STEEL CASTINGS 67-01 M17-58719
A NEW HARDNESS NUMBER FOR THE BALL TEST OF NONFERROUS METALS AND ALLOYS 67-02 M17-58896
HARDENABILITY MEASUREMENTS. PT. 3 67-02 M17-60044
INDENTATION HARDNESS AND THE CREEP OF SOLIDS 67-02 M17-61291
ULTRASONIC HARDNESS TESTING--QUICK AND NONDESTRUCTIVE 67-02 M19-60776
CAST IRON AND BRINELL HARDNESS. PT. 2 67-04 M17-66661
MICROHARDNESS OF CHEMICAL ELEMENTS 67-04 M17-66858
AN INSTRUMENT FOR MEASURING THE SURFACE HARDNESS OF STEEL BY MEANS OF GALVANOMAGNETIC PICKUPS 67-04 M17-67667
NONDESTRUCTIVE TESTING OF GRAY CAST IRON 67-04 M19-67716
LOSS OF STRENGTH DURING ANNEALING OF STRAINED ALLOYS OF NICKEL-ALUMINIUM OXIDE 67-06 M09-72327
HARDNESS OF HARD SURFACING ALLOYS AT ELEVATED TEMPERATURES 67-06 M11-72331
DETERMINATION OF THE HARDNESS OF METALS--A PLASTIC PROCESS, ITS LAWS AND RELATIONSHIPS TO OTHER TECHNOLOGICAL CHARACTERISTICS 67-06 M17-70036
HARDENABILITY MEASUREMENTS. PT. 4 67-06 M17-70829
AUTOMATIC INDENTER FOR DETERMINING THE QUALITY OF WELDS BY COMPARATIVE METHOD 67-06 M19-70371
RELATIONSHIP BETWEEN MICROHARDNESS AND MICROBRITTLENESS OF REFRACTORY COMPOUNDS AND THEIR ELECTRON STRUCTURE 67-07 M09-72513

HARDNESS TESTS
THE PROBLEM OF CASE HARDENABILITY 67-07 M10-73184
A METHOD OF MEASURING THE HIGH TEMPERATURE MICROHARDNESS OF SEMICONDUCTORS 67-07 M17-72869
THE RELATIONSHIP OF HARDNESS TO FRICTION AND PRELIMINARY WORK HARDENING 67-08 M17-75354
DEVELOPMENTS IN HARDNESS TESTING 67-10 M17-78583
VARIATION OF HARDNESS DURING THE ISOCHRONAL AND ISOTHERMAL ANNEALING OF WORKED URANIUM WITH VARIOUS DEGREES OF PURITY 67-10 M17-79637
STUDY OF THE CHARACTERISTICS OF STEEL DURING DEFORMATION AT HIGH RATES 67-10 M17-79741
CORRELATION OF MICROHARDNESS AND MICROBRITTLENESS OF REFRACTORY COMPOUNDS WITH THEIR ELECTRIC STRUCTURE 67-11 M09-80899
HARDNESS OF STRAINED METAL 67-11 M17-81160
MEASURING THE HIGH-TEMPERATURE MICROHARDNESS OF SEMICONDUCTORS 67-12 M17-82177
HARDNESS TESTS, TEMPERATURE EFFECTS
APPARATUS FOR MEASURING HOT HARDNESS BY STATIC METHODS 67-10 M17-79644
HARMONIC ANALYSIS
SEE FOURIER ANALYSIS
HAZELETT PROCESS
SEE CONTINUOUS CASTING
HEADING
HEADING TUBES WITH EXPLOSIVE CHARGES 67-02 M08-62200
HINTS FOR MODERN COLD HEADING 67-03 M08-65865
COLD HEADING SAVES MONEY ON SMALL PARTS 67-04 M08-68103
UPSETTING, AN ECONOMICAL PRODUCTION METHOD 67-04 M08-68118
EXTRUDING DOWN PLUS FORGING UP GIVES HIGH HEAD-TO-SHANK RATIOS 67-05 M07-68303
MACHINE TOOLS FOR UPSETTING AND HEADING 67-08 M08-75762
HEADS /CYLINDER/
SEE CYLINDER HEADS
HEARTHS, COOLING
OPERATING TEMPERATURES ON A SPRAY-COOLED AND UNDER-COOLED CARBON HEARTH BLAST FURNACE 67-09 M04-76499
HEARTHS, DESIGN
DESIGN CONTROL OF SALAMANDER PENETRATION IN BLAST FURNACE HEARTHS 67-08 M04-75317
HEARTHS, SERVICE TIME
HEARTH AND WALL LIFE IN AN ARC FURNACE WORKING OFF A LONG RUN OF STAINLESS STEEL HEATS 67-11 M04-81608
HEAT AFFECTED ZONE
HOW TO CONTROL DILUTION IN WELD OVERLAYS. PT. 2 67-02 M11-61816
THE CALCULATION OF STRENGTH INDICES FOR HEAT AFFECTED ZONE METAL IN WELDED CARBON AND LOW-ALLOY STEELS 67-02 M17-59564
PROBLEMS IN WELDING HIGH-STRENGTH STEELS 67-02 M17-59966
SUBMERGED ARC WELDING WITH STRIP ELECTRODES 67-03 M11-65190
BEHAVIORS OF THE PRECIPITATES OF 17-4PH STAINLESS STEEL BY THE ARC WELDING HEAT 67-03 M14-65842
INFLUENCE OF WELDING CONDITIONS ON THE STRESS CONCENTRATION SENSITIVITY OF 15KHSND WELDED JOINTS 67-03 M17-65045
THE DEVELOPMENT OF CHEMICAL HETEROGENEITY AT THE FUSION BOUNDARY IN WELDED JOINTS 67-04 M11-67347
MICROSTRUCTURAL STUDIES OF RENE 41 SIMULATED WELD HEAT-AFFECTED ZONES 67-04 M11-67630
TRANSFORMATIONS AND REACTIONS IN HEAT AFFECTED ZONE DURING WELDING AND OXYGEN CUTTING OF STEEL 67-04 M11-68026
STRENGTH OF WELDED JOINTS IN STRUCTURES MADE OF HIGH-STRENGTH STEEL 67-04 M17-66567
CREEP RUPTURE PROPERTIES OF LARGE WELDED SPECIMENS 67-04 M17-67587
BRITTLE FRACTURE INITIATION CHARACTERISTICS FOR WELD HEAT AFFECTED ZONE OF 9 PER CENT NI STEEL 67-05 M17-69367
SUBMERGED-ARC WELDING OF ARMY ARMOR 67-06 M11-71683
HEAT TREATMENT AS AN AID TO WELDING 67-06 M11-71940
THE EFFECTIVENESS OF WELDED JOINTS IN METAL STRUCTURES MADE OF HIGH TENSILE STEEL 67-07 M17-73424
THE EFFECT OF WELDING CONDITIONS ON THE SENSITIVITY TO STRESS RAISERS OF JOINTS IN 15KHSND STEEL 67-07 M17-73965
ELECTRON BEAM WELDING AS A PRODUCTION TOOL 67-08 M11-75559
EXAMINATION OF ELECTRON BEAM WELDS IN 18 PER CENT NI/CO/MO MARAGING STEEL SHEET 67-08 M11-75751
EFFECTS OF COMPOSITION ON THE HEAT-AFFECTED-ZONE TOUGHNESS OF S
TOUGHNESS OF CONSTRUCTIONAL ALLOY STEELS 67-08 M11-76071
PRELIMINARY STUDIES OF SHORT-CIRCUITING ARC WELDING OF HY-80 STEEL 67-08 M11-76072
PHENOMENA OCCURRING AT GRAIN BOUNDARIES IN THE HEAT AFFECTED ZONE 67-08 M13-75905
HOT TENSILE PROPERTIES OF 1/2 PER CENT CR-1/2 PER CENT MO-1/4 PER CENT V AND 2 1/4 PER CENT CR-1 MO STEAM PIPE MATERIAL 67-08 M17-75361
PRACTICAL CORROSION PROBLEMS IN RELATION TO WELDED JOINTS. PT. 1. SPECIAL CHARACTERISTICS OF THE WELDING PROCESS WHICH CAN CAUSE CORROSION PROBLEMS 67-08 M18-74701
INERTIA WELDING DISSIMILAR METALS 67-09 M11-77949
WELDABILITY OF CB-BEARING HIGH STRENGTH LOW ALLOY STEEL 67-09 M11-77952
INFLUENCE OF MICROSEGREGATIONS PRODUCED ON THE HEAT AFFECTED ZONE ON THE WELDABILITY OF HEAT RESISTANT Z3NCT25 SHEET STEEL 67-09 M11-78042
THE TENDENCY TO BRITTLE FRACTURE OF COLD-WORKED STEEL AGED BY THE HEAT FROM WELDING 67-09 M17-77816
REVERSION AND AGING PROCESSES IN AL-ZN-MG ALLOYS 67-11 M11-80392
A STUDY OF THE STRAIN-AGE CRACKING CHARACTERISTICS IN WELDED RENE 41--PHASE 1 67-11 M11-80414
WELDED JOINTS BETWEEN DISSIMILAR MATERIALS 67-11 M11-80800
THE USE OF HELIUM AS A PROTECTIVE ATMOSPHERE IN THE TIG WELDING OF AL 67-11 M11-80931
HIGH-TEMPERATURE PROPERTIES OF STEELS--AN INTRODUCTION 67-11 M17-80251
EFFECTS OF CONSTITUTIONAL LIQUATION IN 18-NI MARAGING STEEL WELDMENTS 67-12 M11-82822
FURTHER HEAT AFFECTED ZONE STUDIES IN HEAT RESISTANT NICKEL ALLOYS 67-12 M11-82823
HEAT AFFECTED ZONE, MECHANICAL PROPERTIES
RELATIONSHIP OF MECHANICAL PROPERTIES OF WELD AFFECTED ZONE OF CONSTRUCTION STEELS TO WELDING THERMAL CYCLE 67-03 M17-65046
T-JOINT WELDING OF REINFORCED STEEL 67-04 M11-66576
WELD METAL AND HEAT AFFECTED ZONE PROPERTIES OF ELECTROSLAG WELDS IN 15KH2MF STEEL 67-05 M17-68270
T WELDS IN REINFORCEMENT STEEL 67-07 M11-73433
RELATIONSHIP OF THE MECHANICAL PROPERTIES OF THE HEAT AFFECTED ZONE IN STRUCTURAL STEELS TO THE THERMAL WELDING CYCLE 67-07 M17-73966
HAZARDOUS METALLURGICAL NOTCHES 67-08 M17-75526
STRUCTURAL EVOLUTION OF CENTRIFUGALLY CAST 25CR-20NI-TYPE STEELS DURING PROLONGED HOLDING AT HIGH TEMPERATURE 67-11 M14-80243
HEAT AFFECTED ZONE, MICROSTRUCTURE
A METHOD OF STUDYING THE TRANSFORMATION OF AUSTENITE UNDER WELDING CYCLE CONDITIONS 67-04 M14-66440
A PROCEDURE FOR STUDYING THE AUSTENITE TRANSFORMATION DURING WELDING CYCLES 67-07 M14-72699
STRUCTURE OF THE WELD AFFECTED ZONE IN BUILDUP ON G13L STEEL 67-11 M11-80650
HETEROGENEITY AND AUSTENITE GRAIN GROWTH IN ELECTROSLAG WELDING OF 15KH2MF STEEL 67-11 M14-80552
HEAT AFFECTED ZONE, PHASE TRANSFORMATIONS
TRANSFORMATIONS AND REACTIONS IN THE HEAT AFFECTED ZONE DURING WELDING AND FLAME CUTTING 67-12 M11-83205
HEAT BALANCE
CONTROL OF HEATING IN THE LOWER PART OF THE BLAST FURNACE 67-02 M04-59646
EFFECT OF METAL COMPOSITION ON TEMPERATURE CONDITIONS OF REACTION ZONE IN OXYGEN BLOWING 67-02 M04-61209

QUALITATIVE AND QUANTITATIVE ASSESSMENT OF EFFECTS ON THE HEAT STATE OF THE BLAST FURNACE SHAFT 67-02 M04-61736
MATERIAL AND HEAT BALANCES OF OXYGEN-CONVERTER MELTING 67-02 M04-61740
REACTION-ZONE TEMPERATURE DURING DIRECT OXIDATION OF STEEL POOL BY OXYGEN 67-02 M04-62225
INVESTIGATING HOT-BLAST STOVES FOR A BLAST FURNACE 2000 M3 IN VOLUME 67-04 M04-67771
CALCULATING THE BASIC DIMENSIONS OF CUPOLAS AND PARAMETERS OF THEIR OPERATION 67-04 M06-66095
HEAT WORK OF A REVERBERATORY FURNACE USING PREHEATED AIR BLAST 67-05 M03-69530
TEMPERATURE CONDITIONS OF THE POOL OF HIGH-CAPACITY ARC STEELMAKING FURNACES 67-05 M04-68324
MATERIAL AND THERMAL BALANCE OF OXYGEN CONVERTERS 67-05 M04-68460
THERMAL AND MATERIALS BALANCES FOR A FLUIDIZED BED FURNACE DEWATERING CARNALLITE 67-06 M02-71352
HEAT BALANCE FOR PRODUCING MERCURY BY SINTERING ORE IN A TUBULAR FURNACE 67-06 M03-70206
STABILIZATION OF HEAT STATE OF BLAST FURNACE DURING INJECTION OF FUEL THROUGH TUYERES 67-06 M04-70112
ON THE ELECTRIC ARC FURNACE, WITH SPECIAL REFERENCE TO LARGE CAPACITY UNITS FOR STEEL PRODUCTION 67-07 M04-72547
BATH TEMPERATURES IN LARGE ELECTRIC ARC STEELMAKING FURNACES 67-07 M04-72852
A DUAL GRAPHIC REPRESENTATION OF THE BLAST FURNACE MASS AND HEAT BALANCES 67-07 M04-73098
SILICON CONTENT OF PIG IRON AS A CRITERION OF THERMAL STATE OF A BLAST FURNACE 67-07 M04-74132
ON THE OPTIMUM FREQUENCY OF REVERSING THE CONE OF AN OPENHEARTH FURNACE 67-08 M04-74594
IRON FOR STEELMAKING AT CORBY 67-08 M04-74656
WORK ON KALDO PROCESS CONTROL AT DOMNARVET 67-08 M04-75516
HEAT ABSORBTION BY THE BATH AND THERMAL EFFICIENCY OF VERY LARGE OPENHEARTH FURNACES 67-08 M04-75736
AUTOMATIC REGULATION AND CONTROL OF BLAST FURNACE HEAT 67-08 M04-75792
HEAT BALANCE IN WELDING WITH A PULSED LOW-AMPERE ARC 67-08 M11-75404
TESTS ON THE NO. 5 BLAST FURNACE AT THE REHON, PROVIDENCE, PLANT 67-09 M04-76377
MEASUREMENT OF HYDROGEN UTILIZATION IN THE BLAST FURNACE BY STEAM PULSE AND OIL INJECTION TECHNIQUES 67-10 M04-78329
CALCULATING THE HEAT EXCHANGE PROCESSES IN A BLAST FURNACE 67-10 M04-79319
EFFECT OF HEATING RATES AND TOTAL DEVELOPED HEAT ON THE REDUCTION PROCESS IN MIXTURES OF ORE AND CARBON 67-11 M04-80337
EXPERIMENTAL STUDY OF HEAT LOSS DISTRIBUTION OVER THE FURNACE HEIGHT 67-11 M04-81328
MATERIAL AND HEAT BALANCES IN THE PRODUCTION OF CARBONACEOUS FERROCHROMIUM IN A CLOSED FURNACE 67-12 M04-81868
MATERIALS BALANCE AND HEAT BALANCE FOR THE ALUMINIUM REDUCTION OF FERRO-MOLYBDENUM 67-12 M04-82404
THE MEASUREMENT OF THERMAL FLOW PATTERNS IN THE WORKING SPACE OF A 900-TON OPENHEARTH FURNACE 67-12 M04-83465
THE THERMAL BALANCE FOR WELDING WITH PULSED LOW POWER ARCS 67-12 M11-82025

HEAT BALANCE, STEEL MAKING
HEAT ABSORPTION OF POOL AND THERMAL EFFICIENCY OF HIGH-CAPACITY OPENHEARTH FURNACE 67-06 M04-71267
HOW FUEL FLOW RATE AFFECTS OUTPUT AND THERMAL ROUTINES IN THE OPENHEARTH 67-10 M04-79821

HEAT CAPACITY
SEE SPECIFIC HEAT

HEAT CHECKING
SEE THERMAL FATIGUE

HEAT CONDUCTION
SEE CONDUCTION
HEAT TRANSMISSION

HEAT CONDUCTIVITY
SEE THERMAL CONDUCTIVITY

HEAT CONTENT
EFFECT OF MAGNETITE ON HEAT CONTENT OF CONVERTER SLAGS 67-02 M15-61541
HIGH TEMPERATURE HEAT CONTENTS OF THREE ALPHA BRASS ALLOYS 67-06 M15-70952
HEAT CONTENT OF ELECTRODE METAL DROPLETS DURING SHIELDED ARC WELDING 67-06 M15-71843
GENERALIZED METHODS OF CALCULATING THE HEAT EXTRACTION IN THE SECONDARY COOLING ZONE IN THE CONTINUOUS CASTING OF STEEL 67-07 M04-73013
THERMOCHEMISTRY OF FE-C ALLOYS IN SOLID AND LIQUID STATES 67-08 M15-75866
PLUTONIUM 67-11 M15-80461
THE HEAT CONTENTS OF THE DROPLETS OF ELECTRODE METAL IN GAS SHIELDED ARC WELDING 67-11 M15-80875
HEAT CONSUMPTION IN ALUMINUM OXIDE CALCINING KILN 67-12 M03-82831
MATERIALS BALANCE AND HEAT BALANCE FOR THE ALUMINIUM REDUCTION OF FERRO-MOLYBDENUM 67-12 M04-82404

HEAT DISSIPATION
SEE COOLING

HEAT EXCHANGE
STUDY OF OPENHEARTH FURNACE REGENERATORS BY ELECTRICAL SIMULATION 67-02 M04-60653
A DUAL GRAPHIC REPRESENTATION OF THE BLAST FURNACE MASS AND HEAT BALANCES 67-07 M04-73098
HEAT EXCHANGE PROCESSES IN WATER-COOLED PERMANENT MOLDS 67-08 M06-74347
REHEATING STEEL BY TURNING OVER IN FORGING FURNACES. PT. 1 67-09 M07-78300
MATHEMATICAL DESCRIPTION OF HEAT AND MASS EXCHANGE PHENOMENA IN THE BLAST FURNACE 67-11 M04-81330
INITIAL HEAT EXCHANGE OF METAL AND MOLD 67-12 M06-83035

HEAT EXCHANGERS
CERAMIC HEAT-RESISTING MATERIALS 67-01 M05-57984
ACCELERATED COOLING AFTER COIL ANNEALING 67-01 M10-58492
FAILURE ANALYSIS OF A GASEOUS HYDROGEN HEAT EXCHANGER-LIQUID METAL EMBRITTLEMENT 67-03 M17-65933
DEVELOPMENT OF MGO HEAT EXCHANGE MEDIA 67-09 M05-77962
MANUFACTURE OF FINNED TUBE FOR HIGH-PRESSURE GAS SYSTEMS 67-11 M07-81525

HEAT EXCHANGERS, CORROSION
SOME CORROSION PROBLEMS ARISING IN HEAT EXCHANGERS IN THE CHEMICAL INDUSTRY 67-02 M18-59485
ELECTROCHEMICAL INVESTIGATION OF THE PITTING CORROSION IN KH18N10T STAINLESS STEEL IN CONDITIONS OF HEAT TRANSFER 67-04 M18-67281
INVESTIGATION OF CU-NI ALLOYS FOR HEAT EXCHANGERS 67-04 M18-67855
WATER DESALINATION POSES TOUGH MATERIALS PROBLEMS 67-05 M18-68427
INFLUENCE OF RESIDUAL STRESSES ON CORROSION CRACKING OF AUSTENITIC STAINLESS STEELS 67-05 M18-69007
CORROSION PROBLEMS ON FINNED AIR-COOLED HEAT EXCHANGER TUBING 67-06 M18-70546
ALLOYS FOR SEA WATER CONVERSION. COPPER-BASE ALLOYS FOR HEAT EXCHANGE EQUIPMENT 67-08 M18-75742
CREVICE CORROSION OF TI IN BOILING AMMONIUM CHLORIDE SOLUTION 67-08 M18-76249
SOME OPERATING CONDITIONS INFLUENCING ATTACK OF NON-FERROUS TUBULAR CONDENSER AND HEAT-EXCHANGER EQUIPMENT 67-09 M18-76633
PRACTICAL APPLICATIONS OF CORROSION-TESTING APPARATUS UNDER HEAT TRANSFER CONDITIONS 67-11 M18-81550

HEAT EXCHANGERS, WELDING
AN ELECTRONICALLY CONTROLLED METHOD OF RESISTANCE WELDING THE ENDS OF HEAT EXCHANGER TUBES INTO THE HOLES IN END PLATES 67-02 M11-59648
CHARACTERISTICS OF AN APPARATUS FOR WELDING WITH AN ARC, ROTATING IN A MAGNETIC FIELD 67-04 M11-66434
RW CLOSER, THINNER FINS FOR BETTER TUBE HEAT EXCHANGE 67-05 M11-68432
APPARATUS FOR WELDING WITH THE ARC ROTATING IN A MAGNETIC FIELD 67-07 M11-72693
MANUFACTURING TITANIUM HEAT EXCHANGERS 67-09 M11-77959
HELICALLY AND LONGITUDINALLY FINNED TUBING BY HIGH-FREQUENCY RESISTANCE WELDING 67-10 M11-79195
THE GAS-SHIELDED WELDING OF ALUMINIUM IN CONTAINER MANUFACTURE, WITH SPECIAL REFERENCE TO LOW-TEMPERATURE TECHNOLOGY 67-12 M11-81964

HEAT EXCHANGERS
NEW TECHNIQUES OF MANUFACTURING BRASS CONDENSER TUBING 67-12 M11-82494
HEAT FLOW
SEE HEAT TRANSMISSION
HEAT FLUX
SEE HEAT TRANSMISSION
HEAT LOSS
DETERMINING HEAT LOST BY RADIATION THROUGH HOLES IN FURNACE WALLS 67-01 M10-58163
HEAT LOSSES IN HEATING THE BLAST FURNACE BLAST 67-02 M04-59587
DETERMINING HEAT LOSSES FROM 100-TON OXYGEN-BLOWN CONVERTERS INTO THE ATMOSPHERE 67-04 M04-66702
REGULARITIES OF HEATING STEEL INGOTS BEFORE ROLLING 67-04 M10-66218
TRANSIENT STORED ENERGY IN COPPER AND COPPER-3.2 AT. PER CENT TIN 67-05 M13-68751
HEAT MEASUREMENT
THE SPECIFIC HEAT FROM 50 TO 700 C. OF A NOMINAL NI --16 WT PER CENT MO, 7 WT PER CENT CR, 5 WT PER CENT FE-- ALLOY 67-03 M15-65858
SURVEY OF THERMOCOUPLES 67-03 M20-65626
CERTAIN OPTICAL AND PHYSICAL PROPERTIES OF THE CONE OF A BASIC OXYGEN CONVERTER --IN THE VISIBLE PORTION OF THE RADIATION SPECTRUM-- AND THEIR USE IN PROCESS CONTROL. PT. 2 67-04 M04-66077
APPLICATION OF FLUID ANALOG IN FOUNDRIES 67-04 M06-68041
OPERATING EXPERIENCE WITH CONTINUOUS TEMPERATURE MEASUREMENTS IN CAST IRON AND STEEL MELTS 67-04 M19-66630
SOME OPTICAL AND PHYSICAL CHARACTERISTICS OF THE BASIC OXYGEN FURNACE FLAME IN THE VISIBLE PART OF THE EMISSION SPECTRUM AND THEIR USE FOR PROCESS CONTROL. PT. 2 67-10 M04-79670
HEAT OF ADSORPTION
HEATS OF ADSORPTION OF CARBON DIOXIDE ON DOPED ZINC OXIDE 67-05 M15-69598
THE ADSORPTION OF HELIUM, ARGON AND NITROGEN ON GRAPHITE 67-10 M14-78499
HEAT OF COMBINATION
SEE HEAT OF REACTION
HEAT OF CONDENSATION
SEE HEAT OF VAPORIZATION
HEAT OF DECOMPOSITION
SEE HEAT OF FORMATION
HEAT OF DISSOCIATION
SEE HEAT OF FORMATION
HEAT OF DISSOLUTION
SEE HEAT OF SOLUTION
HEAT OF FORMATION
DISSOLUTION CALORIMETER IN TIN AND APPLICATION TO THE STUDY OF CERTAIN ORDER-DISORDER TRANSFORMATIONS 67-04 M14-66047
RESEARCH ON NOBLE METAL ALLOYS CONTAINING HIGHER ELECTROPOSITIVE ELEMENTS. PT. 10. HEAT OF FORMATION OF AL-AU ALLOYS 67-05 M09-69352
MEASURE OF THE THERMAL CAPACITY OF THE FESI ALLOY BETWEEN 850 AND 1580 C 67-05 M15-68917
DTA AND X-RAY STUDIES OF ELECTROLESS NICKEL 67-07 M14-73451
AVERAGE HEATS OF ATOMIZATION AND THE IV-VI COMPOUND SEMICONDUCTORS 67-07 M15-73182
A STUDY OF UC1-XOX. PT. 3 67-07 M15-74013
THE THERMODYNAMIC AND PHYSICAL PROPERTIES OF BERYLLIUM COMPOUNDS. PT. 11. THE HEAT OF FORMATION AND ENTROPY OF BERYLLIUM --I-- HYDROXIDE --G-- 67-08 M15-75382
THERMOCHEMISTRY OF FE-C ALLOYS IN SOLID AND LIQUID STATES 67-08 M15-75866
HEATS OF FORMATION OF AU3ZN AND AUZN 67-09 M15-77730
HEATS OF ATOMIZATION AND FORMATION OF A3 B5 COMPOUNDS FROM EXPERIMENTAL DATA ON ELECTRON-DENSITY DISTRIBUTIONS 67-11 M15-80156
THERMODYNAMIC PROPERTIES OF INDIUM AND GALLIUM ANTIMONIDES AND GALLIUM ARSENIDE 67-11 M15-80160
DETERMINATION OF THE HEAT OF FORMATION OF INDIUM AND GALLIUM PHOSPHIDES BY COMBUSTION IN A CALORIMETER BOMB 67-11 M15-80162
THE URANIUM-NITROGEN SYSTEM 67-11 M15-80195
A THERMODYNAMIC INVESTIGATION OF THE COMPOUNDS, IN3SBTE2, INSB, AND INTE 67-11 M15-81348
COMPOSITION AND PRESSURE DEPENDENCE OF THE ELASTIC CONSTANTS OF GOLD-NICKEL ALLOYS 67-11 M17-81389
HEATS OF FORMATION OF ALUMINUM DIBORIDE AND ALPHA-ALUMINUM DODECABORIDE 67-12 M15-82390
A CALORIMETRIC INVESTIGATION OF THE BISMUTH-RICH REGION OF THE SYSTEM BISMUTH-SELENIUM 67-12 M15-82570
VAPOR PRESSURE OF LEAD AND ACTIVITY MEASUREMENTS ON LIQUID LEAD-TIN ALLOYS BY THE TORSION EFFUSION METHOD 67-12 M15-82730
THE THERMODYNAMIC PROPERTIES OF SEVERAL SOLID PHASES OF THE COMPOUND, INSB 67-12 M15-82973
HEAT OF FORMATION, COMPOSITION EFFECTS
THE HEAT OF FORMATION OF URANIUM CARBIDE 67-10 M15-79591
HEAT OF FUSION
HEATS OF FUSION AND TRANSFORMATION FOR SOME METALS AND COMPOUNDS 67-02 M15-61114
MEASURE OF THE THERMAL CAPACITY OF THE FESI ALLOY BETWEEN 850 AND 1580 C 67-05 M15-68917
USE OF PHASE DIAGRAMS OF BINARY SYSTEMS TO CALCULATE THE HEAT OF FUSION OF THE SOLVENT 67-05 M15-69110
PREDICTION OF HEAT INPUT FOR WELDING 67-06 M11-71686
EVALUATION OF THE HEATS OF PHASE TRANSITIONS AND VACANCY-FORMATION ENERGIES IN SIMPLE METALS 67-06 M15-70502
ENTHALPY, HEAT CAPACITY, AND HEAT OF FUSION OF ALUMINUM FROM 366 TO 1647 K 67-06 M15-70701
ENTHALPY, HEAT CAPACITY, AND HEAT OF FUSION OF MAGNESIUM FROM 404 TO 1300 K 67-06 M15-70703
DETERMINING THE FUSION HEAT OF TITANIUM 67-06 M15-72110
STABILITY OF ELECTRONIC CONFIGURATIONS 67-07 M16-72509
DETERMINING THE LATENT HEAT OF FUSION OF ZIRCONIUM 67-09 M15-77121
LIQUID PLUTONIUM--A REVIEW OF ITS PHYSICAL PROPERTIES 67-11 M15-80543
STABILITY OF ELECTRON CONFIGURATIONS 67-11 M16-80895
APPLICATION OF THE GRAIN GROWTH THEORY TO THE FORMATION OF NICKEL TRICHITES 67-12 M14-83500
HEAT OF HYDROGENATION
SEE HEAT OF REACTION HYDROGENATION
HEAT OF ISOMERIZATION
SEE HEAT OF REACTION ISOMERIZATION
HEAT OF MIXING
THE URANIUM-CARBON-NITROGEN SYSTEM 67-02 M15-60617
HEAT OF MIXING IN LIQUID ALLOYS 67-03 M15-65163
MIXTURE ENTHALPY OF LIQUID GALLIUM-INDIUM ALLOYS 67-05 M15-69129
CONNECTION OF SOLUBILITY AND PROPERTIES OF SOLID SOLUTIONS IN BINARY SYSTEMS OF CARBIDES WITH EXCESS FREE ENERGY OF MIXING 67-06 M13-72332
THE HEAT OF MIXING OF SB WITH B-METALS. PT. 2. THE IN-TL SYSTEM 67-06 M15-71599
THE MIXING BEHAVIOR OF PD ALLOYS OF THE INTERSTITIAL AND THE SUBSTITUTIONAL TYPE 67-07 M15-72751
ENTHALPY OF MIXING IN THE SYSTEM SODIUM-THALLIUM 67-09 M15-76580
INVESTIGATION OF THE THERMODYNAMIC PROPERTIES OF THE GALLIUM-MERCURY AND GALLIUM-ZINC SYSTEMS 67-10 M15-78671
HEAT OF MIXING OF ANTIMONY WITH B-METALS. PT. 3. THE SYSTEM WITH TIN AND LEAD 67-10 M15-78741
ACTIVITIES OF CHROMIUM AND TITANIUM IN BINARY CHROMIUM-TITANIUM ALLOYS 67-11 M15-81340
HEAT OF NEUTRALIZATION
SEE HEAT OF REACTION
HEAT OF REACTION
DISCUSSION OF THE GENERAL THEORY OF THE WORKING OF HEAT-GENERATING FURNACES 67-02 M15-60733
THERMODYNAMIC QUANTITIES IN THE EXCHANGE OF ZINC WITH SODIUM IONS IN VARIOUSLY CROSS-LINKED POLYSTYRENE SULFONATE CATION EXCHANGERS AT 25 C 67-09 M14-76600
DIRECT DETERMINATION OF HEATS OF REACTIONS BETWEEN SOLID PHASES BY ANALYSIS OF THERMAL GRADIENT DATA 67-12 M15-83200
HEAT OF SOLIDIFICATION
SEE HEAT OF FUSION
HEAT OF SOLUTION
CALORIMETRIC DETERMINATION OF SOLUTE-SOLUTE INTERACTIONS IN SOME DILUTE TIN-RICH LIQUID

ALLOYS 67-02 M15-59428
DILUTE SOLUTIONS IN MOLTEN ALLOYS 67-02 M15-60636
A CALORIMETRIC INVESTIGATION OF LIQUID GOLD-TIN ALLOYS 67-02 M15-60647
THE SOLUBILITY OF TANTALUM AND TUNGSTEN IN LIQUID RARE-EARTH METALS 67-03 M14-65131
SOLUBILITY OF HYDROGEN IN SOLID COPPER, SILVER, AND GOLD OBTAINED BY A RAPID QUENCH AND EXTRACTION TECHNIQUE 67-12 M14-82567
A CALORIMETRIC INVESTIGATION OF THE BISMUTH-RICH REGION OF THE SYSTEM BISMUTH-SELENIUM 67-12 M15-82570

HEAT OF SOLUTION, ALLOYING EFFECTS
THE EFFECT OF A THIRD COMPONENT ADDED TO NICKEL-ALUMINUM ALLOYS ON THE THERMODYNAMIC PROPERTIES OF THE GAMMA AND GAMMA-PRIME PHASE 67-06 M15-70368

HEAT OF SUBLIMATION
SOLID MANGANESE VAPOR PRESSURE 67-04 M15-66820
STABILITY OF ELECTRONIC CONFIGURATIONS 67-07 M16-72509
VAPOR PRESSURE AND HEAT OF SUBLIMATION OF ZIRCONIUM AND HAFNIUM TETRACHLORIDES 67-09 M15-76582
SUBLIMATION RATES, VAPOR PRESSURE AND HEATS OF SUBLIMATION OF RHENIUM, RHODIUM, PALLADIUM AND TITANIUM 67-09 M15-77835
MASS SPECTROMETRIC STUDIES AT HIGH TEMPERATURES. PT. 16. SUBLIMATION PRESSURES FOR TIF3 AND THE STABILITIES OF TIF2 --G-- AND TIF --G-- 67-11 M15-80699
MEASUREMENT OF THE PARTIAL HEATS OF EVAPORATION OF MANGANESE AND ITS COMPOUNDS IN THE SYSTEMS MN-FE AND MN-SI BY A MASS SPECTROMETER 67-11 M15-81211
STABILITY OF ELECTRON CONFIGURATIONS 67-11 M16-80895
VAPOUR PRESSURES OF THE RARE EARTH METALS, SCANDIUM AND YTTRIUM 67-12 M15-82127

HEAT OF TRANSFORMATION
THERMODYNAMIC ASPECTS OF THE TEMPERATURE-PRESSURE PHASE DIAGRAM OF INTE 67-01 M15-57115
DETERMINING THE LATENT HEAT OF MARTENSITIC TRANSFORMATION PRODUCED IN STEEL BY A MAGNETIC FIELD 67-02 M14-59934
HYSTERESIS IN MARTENSITIC TRANSFORMATIONS 67-04 M14-66532
DETERMINING THE LATENT HEAT OF THE MARTENSITIC TRANSFORMATION INDUCED BY A MAGNETIC FIELD IN STEEL 67-07 M14-72589
CALORIMETRIC STUDIES OF DELTA, DELTA PRIME AND EPSILON PLUTONIUM 67-10 M19-79592
THE ATOMIC HEAT OF ZR BETWEEN 300 AND 1700 C 67-11 M15-80866

HEAT OF VAPORIZATION
THE HEAT OF FORMATION OF URANIUM CARBIDE 67-10 M15-79591
VAPOR PRESSURE OF METAL HALIDES. THE SNCL2-ZNCL2 BINARY SYSTEM 67-11 M15-80761
THE VAPOR PRESSURE OF YTTERBIUM IN THE PRESSURE RANGE OF 40-4000 TORR 67-12 M15-81831
VAPOUR PRESSURES OF THE RARE EARTH METALS, SCANDIUM AND YTTRIUM 67-12 M15-82127
RATE OF VAPORISATION OF BERYLLIUM DURING THERMAL DISSOCIATION OF CEBE13 67-12 M15-82128

HEAT RESISTANCE
SEE THERMAL RESISTANCE

HEAT RESISTANT ALLOYS
HIGH-TEMPERATURE ALLOYS FOR TURBINE ENGINES ARE STEADILY IMPROVING 67-01 M20-57546
CHROMAX DEF. 520 --HEAT RESISTANT ALLOY-- 67-02 M01-59490
TI-679 --HIGH TEMPERATURE ALLOY-- 67-02 M01-59494
RECENT DEVELOPMENTS IN CAST NICKEL ALLOYS FOR HIGH TEMPERATURE USE 67-02 M17-61966
AEROSPACE STRUCTURAL METALS HANDBOOK. V 2 A. NON-FERROUS HEAT RESISTANT ALLOYS 67-03 M01-66000
THE HIGH TEMPERATURE EVALUATION OF AEROSPACE MATERIALS 67-03 M17-65935
IS PROCESSING AT 2000 F. NOW POSSIBLE 67-04 M01-66109
TUNGSTEN NEWS 67-04 M01-66125
RA-600 --HEAT RESISTANT ALLOYS-- 67-04 M01-66329
REVIEW OF RECENT DEVELOPMENTS NICKEL-BASE AND COBALT-BASE ALLOYS 67-04 M01-67468
INCONEL ALLOY 625 --HIGH TEMPERATURE ALLOY-- 67-04 M01-68065
HARVEY HA8116 --HIGH TEMPERATURE ALLOY-- 67-04 M01-68066
WHERE SOVIET SUPERALLOYS STAND 67-06 M01-70721
A PRIMER ON SOVIET SUPERALLOYS 67-06 M20-71819
UDIMET M-252 --HIGH TEMPERATURE ALLOY-- 67-07 M01-73154

HEAT RESISTANT ALLOYS, ALLOYING
PRINCIPLES OF ALLOYING HEAT RESISTANT CONDUCTING COPPER AND ALUMINUM ALLOYS 67-09 M03-77126

HEAT RESISTANT ALLOYS, BEARINGS
BEARING MATERIALS--A LOOK AT THE FUTURE 67-02 M20-60243

HEAT RESISTANT ALLOYS, CASTING
A BREAKTHROUGH IN MAKING TURBINE COMPONENTS--DIRECTIONAL SOLIDIFICATION AND SINGLE CRYSTALS 67-02 M06-59458
HALF-TON ALLOY CASTINGS POURED IN VACUUM INVESTMENT FURNACE 67-04 M06-66504
VACUUM POURING AND SOLIDIFICATION OF CREEP RESISTING ALLOY CASTINGS 67-08 M17-74554
UTILIZATION OF COMPUTERS IN INVESTMENT CASTING BY APPLICATION OF MATHEMATICAL/ANALYTICAL TECHNIQUES 67-09 M06-77089

HEAT RESISTANT ALLOYS, CASTINGS
NIMONIC, NOMOCAST AND OTHER HIGH-NICKEL ALLOYS FOR VERY HIGH TEMPERATURE USE 67-10 M20-78374

HEAT RESISTANT ALLOYS, CHEMICAL ANALYSIS
RADIOCHEMICAL ANALYSIS OF BASIC ELEMENTS BY ELECTRON MICROPROBE 67-02 M19-59090

HEAT RESISTANT ALLOYS, COATING
COATINGS ON REFRACTORY METALS. PT. 3 67-01 M12-58004
METALLIC CEMENTATION 67-01 M12-58432
DIFFUSION SATURATION BY BORON AND TITANIUM 67-02 M12-60072
NEW CHROMIZING AND CHROMIUM-ALUMINIZING PROCESSES 67-08 M12-75609
FORMATION AND DEGRADATION MECHANISMS OF ALUMINIDE COATINGS ON NICKEL-BASE SUPERALLOYS 67-08 M14-75978

HEAT RESISTANT ALLOYS, CORROSION
HOT CORROSION OF REFRACTORY ALLOYS BY COMBUSTION DEPOSITS CONTAINING LEAD 67-01 M18-57161
SENSITIVITY TO STRESS CORROSION AND INTERGRANULAR ATTACK OF HIGH-NICKEL,AUSTENITIC ALLOYS 67-01 M18-58513
NICKEL ALLOYS FIGHT BACK AT CORROSION 67-01 M18-58590
CHROMALUMINIZING 67-02 M18-60861
HIGH-TEMPERATURE CORROSION BY PRODUCTS OF COMBUSTION OF FUEL OILS OF HIGH AND MEDIUM DENSITY 67-02 M18-62015
CORROSION IN BLAST-FURNACE GAS TURBINES. CAUSES AND REMEDIES 67-02 M18-62025
OXIDATION AND SULFIDATION CORROSION OF NICKEL BASE SUPERALLOYS 67-03 M18-65619
SENSITIZATION AND THERMAL STABILIZATION OF NI-CR-MO-FE-W ALLOY 67-03 M18-65756
HIGH TEMPERATURE CORROSION AND EVAPORATION OF HAYNES 25 AND HASTELLOY X-280 67-06 M18-70483
HOT CORROSION OF GAS TURBINE ALLOYS 67-06 M18-70491

HEAT RESISTANT ALLOYS, DIES
HOT DIE FORGING STUDY AIMED AT HIKING TITANIUM POTENTIAL 67-11 M07-80768

HEAT RESISTANT ALLOYS, ELECTRICAL PROPERTIES
LOW-ALLOY HEAT PROOF COPPER ALLOYS WITH HIGH ELECTRICAL CONDUCTIVITY 67-06 M15-69986

HEAT RESISTANT ALLOYS, FIBER METALLURGY
METALLIC FILAMENTS AND THEIR COMPOSITES 67-07 M09-73341

HEAT RESISTANT ALLOYS, FORGING
CONTROLLING VARIATIONS IN MECHANICAL PROPERTIES OF HEAT RESISTANT ALLOYS DURING FORGING 67-06 M07-70131
SUPERALLOY FORGINGS HOLD UP AS TEMPERATURES SOAR 67-12 M07-83174

HEAT RESISTANT ALLOYS, GEARS
GEAR MATERIAL FOR OPERATION AT 1000 F 67-08 M17-74491

HEAT RESISTANT ALLOYS, GRAIN GROWTH
INCREASE IN GRAIN SIZE DURING RECRYSTALLIZATION OF HEAT RESISTANT NICKEL ALLOYS 67-05 M14-68358

HEAT RESISTANT ALLOYS, GRAIN SIZE
DIFFERENCE IN THE GRAIN SIZES OF NI-CR ALLOYS RESULTING FROM UNIFORM DEFORMATION 67-05 M14-68359

HEAT RESISTANT ALLOYS, HARDENING
INFLUENCE OF THERMAL HARDENING ON STRUCTURE AND PROPERTIES OF HEAT RESISTANT ALLOYS 67-06 M17-72347
HEAT RESISTANT ALLOYS, HEAT TREATMENT
IMPROVING THE QUALITY OF HEAT TREATMENT OF HOT FORMING DIES 67-02 M10-59404
VACUUM HEAT TREATING--A BOON FOR THE COMMON METALS 67-03 M10-65478
FORGING AND SOLUTION TREATING ALLOY 718 67-03 M10-65977
OPTIMIZING HEAT TREATMENTS FOR PRECIPITATION HARDENING SUPERALLOYS 67-05 M10-68676
HEAT TREATMENT OF INVESTMENT-CAST STAINLESS STEELS AND HIGH TEMPERATURE ALLOYS 67-05 M10-69889
HARDENING TREATMENT FOR HEAT RESISTANT ALLOYS 67-05 M17-68352
VARIATION OF INTERNAL FRICTION IN HEAT RESISTANT MATERIALS HARDENED BY THERMOMECHANICAL TREATMENT 67-05 M17-68353
STUDY OF THE FEASIBILITY OF REDUCING RESIDUAL STRESSES IN CASTINGS 67-06 M10-70297
HEAT TREATMENT OF ROLLING BEARINGS--THE TORRINGTON PLANT AT DARLINGTON 67-08 M10-74739
KINETICS OF THE HARDENING AND WEAKENING OF HIGH-TEMPERATURE ALLOYS STUDIED TO SELECT THE TEMPERATURE RANGE FOR HOT PLASTIC DEFORMATION AND HEAT TREATMENT 67-09 M14-77051
HEAT TREATING NICKEL-BASE SUPERALLOYS 67-10 M10-78759
HEAT RESISTANT ALLOYS, MACHINING
HIGH TEMPERATURE METALS 67-03 M08-65864
TOUGH AEROSPACE JOB REQUIRES UNUSUAL EDM APPROACH 67-05 M08-68446
RECOMMENDATIONS FOR DRILLING TOUGH MATERIALS 67-05 M08-69798
JET WHEEL-CLEANING FACILITATES GRINDING OF CERTAIN ALLOY MATERIALS 67-06 M08-70864
CARBIDE MACHINING OF SUPERALLOYS 67-06 M08-71484
LIQUID STREAMS DRILL HOLES IN TOUGH METALS 67-07 M08-73308
NEW PROCESS DRILLS DIFFICULT HOLES 67-08 M08-74454
MACHINING TOOLS FOR HIGHLY HEAT RESISTANT MATERIALS IN AIRCRAFT POWER PLANT CONSTRUCTION 67-08 M08-74756
TEMPERATURE KEY TO MACHINING 67-08 M08-75530
WHAT HAS CHEM-MILL DONE FOR YOU LATELY 67-12 M08-82912
HEAT RESISTANT ALLOYS, MAGNETIC PROPERTIES
THE ANOMALOUS CHANGES OF THE MAGNETIC PROPERTY OF A MUMETAL 67-02 M15-60278
HEAT RESISTANT ALLOYS, MECHANICAL PROPERTIES
COBALT ALLOYS IN PROCESS METALLURGY OPERATIONS 67-01 M01-57933
A CONTEMPORARY VIEW OF NICKEL-BASE SUPERALLOYS 67-01 M01-57934
THE EFFECT OF SURFACE OXIDATION ON THE PROCESS OF CREEP 67-01 M17-57148
HIGH-SPEED, HIGH-TEMPERATURE TENSION APPARATUS FOR THE STUDY OF AEROSPACE MATERIALS 67-01 M17-57609
TENSION-COMPRESSION FATIGUE TESTS ON A CO-CR-W-NI ALLOY IN TEMPERATURE RANGE OF 800 TO 1200 C 67-01 M17-57925
RELATIONSHIP BETWEEN STEADY-STATE CREEP RATE AND MAGNETIC TRANSFORMATION TEMPERATURE IN FERRITIC FERRITIC IRON-CHROMIUM ALLOYS 67-02 M17-59981
POSTIRRADIATION CREEP AND STRESS RUPTURE OF HASTELLOY N 67-04 M16-68120
CASE HISTORIES OF FAILURES IN TITANIUM AND SUPER-ALLOY FORGINGS 67-04 M17-66689
THE EFFECTS OF LOAD AND TEMPERATURE CYCLING ON THE CREEP BEHAVIOR OF A NICKEL-BASE ALLOY 67-04 M17-66932
HIGH TEMPERATURE STEELS. PT. 4 67-04 M17-67720
BORON-DOPING OF NIMONIC TYPE HEAT RESISTANT NICKEL ALLOYS 67-04 M17-67847
FATIGUE RESISTANCE OF THE KHN77TYUR ALLOY AND RESISTANCE TO PROLONGED EXPOSURE TO HIGH TEMPERATURES 67-05 M17-68361
EFFECT OF HEAT TREATMENT ON THE RELAXATION RESISTANCE OF THE KHN77TYU ALLOY 67-05 M17-68368
TECHNIQUES FOR ELEVATED-TEMPERATURE TENSILE TESTING OF THIN SUPER ALLOYS 67-05 M17-68670
A NICKEL-BASE HEAT RESISTANT FORMING ALLOY 67-05 M17-69241
FATIGUE STRENGTH OF SOME HEAT RESISTANT MATERIALS IN VARYING TEMPERATURE CONDITIONS 67-05 M17-69258
DEVELOPMENT OF IMPROVED WROUGHT ALLOYS FOR REFORMER TUBES 67-06 M17-70535
SOME VARIATIONS IN THE ACTIVATION ENERGY FOR CREEP IN NIMONIC 80A 67-06 M17-70876
THE EFFECT OF SUPERIMPOSED FATIGUE ON THE CREEP BEHAVIOR OF THE NICKEL-BASE ALLOY UDIMET 700 67-06 M17-71082
NICKLE-AND COBALT-BASE ALLOYS 67-07 M01-74253
METALLURGICAL PROBLEMS IN STEAM REFORMING PLANT 67-07 M01-74266
STRENGTH PROPERTIES OF ELECTRON BEAM WELDED ALLOYS FOR EXTREME HIGH-TEMPERATURE SERVICE 67-07 M17-72425
EFFECT OF MOLYBDENUM, TUNGSTEN AND COLUMBIUM ON THE RESISTING 20 PER CENT CO, 20 PER CENT CR, 20 PER CENT NI ALLOYS 67-07 M17-73028
STRAIN-CYCLE PHENOMENA IN THIN-WALL TUBING 67-07 M17-73391
STRUCTURE AND PROPERTIES OF THE HEAT-RESISTANT ZHS TYPE NICKEL ALLOYS RESULTING FROM QUENCHING 67-08 M17-74965
THE EFFECT OF TEMPERATURE ON THE LOW-CYCLE FATIGUE BEHAVIOR OF UDIMET 700 67-08 M17-75976
THE ELASTIC CONSTANTS OF A DIRECTIONALLY-SOLIDIFIED, NICKEL-BASE SUPERALLOY, MAR M-200 67-08 M17-75982
INFLUENCE OF DIFFERENT FACTORS ON STRENGTHENING OF THE KHN35VTYU --EI787-- ALLOY 67-08 M17-76014
SPECIAL PROTECTION OF HIGHLY HEAT-RESISTANT MATERIALS 67-10 M14-79683
AN INTERPRETATION OF THE EFFECTS OF STRESS AND TEMPERATURE ON THE CREEP PROPERTIES OF A NICKEL-BASE SUPERALLOY 67-11 M17-80103
TENSILE AND FATIGUE PROPERTIES OF ALLOY 718 AT CRYOGENIC TEMPERATURES 67-11 M17-80520
THE EFFECT OF UNIDIRECTIONAL SOLIDIFICATION ON THE PROPERTIES OF CAST NICKEL-BASE SUPERALLOYS 67-11 M17-81335
TENSILE AND CREEP PROPERTIES OF SINGLE CRYSTALS OF THE NICKEL-BASE SUPERALLOY MAR-M200 67-11 M17-81344
CAST ALLOY DEFIES FURNACE HEAT 67-12 M20-83481
HEAT RESISTANT ALLOYS, METAL WORKING
FORGING STAINLESS AND HIGH TEMPERATURE GRADES 67-10 M07-79757
ADVANTAGES OF WARM FORMING 67-11 M07-81693
RECENT REFRACTORY ALLOYS USED IN TURBOJET ENGINE CONSTRUCTION 67-12 M20-83375
HEAT RESISTANT ALLOYS, MICROSTRUCTURE
MICROSTRUCTURE OF PRECIPITATION STRENGTHENED NICKEL-BASE SUPERALLOYS 67-02 M13-61103
SOME MICROSTRUCTURAL OBSERVATIONS ON THE DEFORMATION AND FRACTURE CHARACTERISTICS OF A NICKEL-BASE ALLOY IN STATIC CREEP 67-04 M13-66946
STABILITY OF HIGH-NICKEL ALLOYS IN SUPERHEATED STEAM 67-05 M14-69447
EFFECT OF HYDROSTATIC PRESSURE ON GAMMA PRIME PRECIPITATION IN RENE 41 67-06 M14-71617
DISTRIBUTION OF THE PRECIPITATES OF THE SECOND PHASE ALONG THE BOUNDARIES IN ALLOYED STEELS AND ALLOYS 67-08 M13-74960
A DYNAMIC THEORY OF COHERENT PRECIPITATION HARDENING WITH APPLICATION TO NICKEL-BASE-SUPER-ALLOYS 67-12 M10-82720
THE CARBIDE PHASES IN MAR-M200 67-12 M13-82562
HEAT RESISTANT ALLOYS, PHASE TRANSFORMATIONS
PRECIPITATION HARDENING IN NI-BASE HIGH-TEMPERATURE ALLOYS 67-02 M14-61898
HEAT RESISTANT ALLOYS, PHASES /STATE OF MATTER/
PHASE REACTIONS IN B-1900 NICKEL-BASE ALLOY FROM 1600 TO 1800 F 67-01 M14-58467
SIGMA FORMATION IN NICKEL-RICH NICKEL-COBALT-CHROMIUM-ALUMINUM-TITANIUM-CARBON ALLOYS AT 1650 F 67-06 M14-69932
THE STRUCTURE OF THE GAMMA PRIME-PHASE IN NICKEL-BASE SUPERALLOYS 67-06 M14-71427
HEAT RESISTANT ALLOYS, PHYSICAL PROPERTIES
RELATION BETWEEN THE MAGNETIZATION, THE INDUCED MAGNETIC ANISOTROPY AND THE RECRYSTALLIZATION PROCESS OF A COLD ROLLED FERROMAGNETIC GAMMA-PHASE ALLOY IN THE CO-FE-CR-NI SYSTEM --ANISOTROPY INDUCED BY COLD WORKING IN A

FERROMAGNETIC GAMMA-PHASE ALLOY IN THE CO-FE-CR-NI SYSTEM. PT. 2.-- 67-02 M15-59738
NIMONIC, NIMOCAST AND OTHER HIGH-NICKEL ALLOYS FOR VERY HIGH-TEMPERATURE USE 67-10 M20-78468

HEAT RESISTANT ALLOYS, PRECIPITATION
BEHAVIOR OF CHANGES OF PRECIPITATE OF NI-BASE HEAT RESISTING NO. 64BC ALLOY 67-04 M14-67567

HEAT RESISTANT ALLOYS, RECRYSTALLIZATION #METALLURGICAL#
EFFECT OF PRECIPITATION HARDENING PHASE ON PRIMARY RECRYSTALLIZATION OF EI437B ALLOY 67-06 M14-70287

HEAT RESISTANT ALLOYS, REFINING
EFFECT OF PRODUCTION METHOD ON PROPERTIES, PHASE COMPOSITION AND STRUCTURE OF KH N77TYUR ALLOY 67-02 M14-61868
INFLUENCE OF PRODUCTION METHOD ON PROPERTIES, PHASE COMPOSITION, AND STRUCTURE OF KHN77TYUR ALLOY 67-04 M14-67687

HEAT RESISTANT ALLOYS, ROLLING
SHEET ROLLING IN EP487 ALLOY 67-09 M07-77633
ROLLING SHEETS OF EP 487 ALLOY 67-11 M07-80921

HEAT RESISTANT ALLOYS, SPECIFICATIONS
INCRAMET 800 --HEAT RESISTANT COPPER ALLOY-- 67-04 M01-66330

HEAT RESISTANT ALLOYS, THERMAL PROPERTIES
TINY PARTICLES TURN METALS INTO SUPERPERFORMERS 67-01 M01-58473
MATERIALS IN AN ATLAS-AGENA SHROUD 67-05 M20-68685
UMCO-51 --HIGH TEMPERATURE ALLOY-- 67-06 M01-71458
THERMOPHYSICAL PROPERTIES OF HEAT-RESISTANT TUNGSTEN-RHENIUM ALLOY VR-27-VT 67-06 M15-72043
WHERE YOU CAN USE TODAYS SUPERALLOYS 67-10 M20-78630
ALKALI-METAL, RANKINE-CYCLE POWER SYSTEMS FOR ELECTRIC PROPULSION 67-10 M20-79732

HEAT RESISTANT ALLOYS, WELDING
WELDING CAST HEAT RESISTANT FE-25CR-5AL ALLOY 67-03 M11-65050
THE COMPARATIVE WELDABILITY OF REFRACTORY METAL ALLOYS 67-04 M11-67033
SPOTLIGHT ON ARC WELDING. PT. 30. F. ATKINSON --NOTTINGHAM--LTD 67-05 M11-69430
FABRICATION OF PIGTAIL ASSEMBLIES 67-06 M11-70539
WELDING CAST FE..25 CR.. 5AL HEAT RESISTING ALLOY 67-07 M11-73970
ALLOY EFFECTS IN THE LOW-PRESSURE DIFFUSION BONDING OF SUPERALLOYS 67-09 M11-77954
AGE EMBRITTLEMENT OF MULTIPASS WELDED SUPERALLOY JOINTS 67-09 M17-77953
A STUDY OF THE STRAIN-AGE CRACKING CHARACTERISTICS IN WELDED RENE 41--PHASE 1 67-11 M11-80414
THE APPLICATION OF WELDING TECHNIQUES IN THE AIR AND IN SPACE 67-12 M11-82464
PARAMETERS AFFECTING LASER WELDING 67-12 M11-82801
FURTHER HEAT AFFECTED ZONE STUDIES IN HEAT RESISTANT NICKEL ALLOYS 67-12 M11-82823

HEAT RESISTANT IRON
SEE ALLOY CAST IRON

HEAT RESISTANT STEELS
HECLA EM.20 --HIGH TEMPERATURE ALLOY-- 67-02 M01-61661
A. C. I. TYPE CK-20 --CORROSION & HEAT RESISTING STEEL-- 67-04 M01-68071

HEAT RESISTANT STEELS, BOLTS
METALLURGICAL ASPECTS OF FERRITIC BOLT STEELS 67-11 M17-80280

HEAT RESISTANT STEELS, CASTING
THE CONTINUOUS CASTING OF SMALL CROSS SECTIONS 67-02 M04-59133
THE DEVELOPMENT OF STEEL CASTING ALLOYS AS REFLECTED BY NEW STANDARDS 67-04 M06-66673
MECHANICAL BURN-ON FORMATION ON THE HIGH ALLOY STEEL CASTINGS 67-04 M06-67946
SLAGGING MIX FOR TEEMING AND REFINING ESPECIALLY HEAT RESISTANT STEEL ALLOYS 67-11 M04-81604

HEAT RESISTANT STEELS, CASTINGS
PROPERTIES AND APPLICATIONS OF CORROSION RESISTANT STAINLESS AND HIGH ALLOY STEEL CASTINGS 67-10 M01-79755

HEAT RESISTANT STEELS, CHEMICAL ANALYSIS
THE APPLICATION OF MICROPROBES IN INDUSTRIAL RESEARCH 67-02 M19-59623

HEAT RESISTANT STEELS, CORROSION
HIGH-TEMPERATURE CORROSION BY PRODUCTS OF COMBUSTION OF FUEL OILS OF HIGH AND MEDIUM DENSITY 67-02 M18-62015
HIGH-TEMPERATURE CORROSION TESTS WITH DIFFERENT HEAT RESISTANT MATERIALS IN AN OIL/GAS FIRED INDUSTRIAL BOILER 67-02 M18-62019
PREVENTION OF VANADIUM PENTOXIDE ATTACK OF REFORMER TUBES BY MAGNESIUM COMPOUNDS 67-06 M18-70543
CORROSION-FATIGUE CRACK PROPAGATION IN MODERN HIGH-PERFORMANCE STRUCTURAL STEELS 67-08 M18-75974

HEAT RESISTANT STEELS, CRYSTAL LATTICES
ON THE INTERACTION BETWEEN DISLOCATION AND SOLUTE ATOM IN LOW-ALLOY HEAT-RESISTING STEELS 67-01 M17-58325

HEAT RESISTANT STEELS, DIE CASTING DIES
INNOVATIONS IN DIE CASTING DIE STEELS 67-03 M20-65402

HEAT RESISTANT STEELS, FORGING
APPLICATION OF FORGEABILITY TESTS TO LAMINABILITY 67-11 M07-80391

HEAT RESISTANT STEELS, GRAIN GROWTH
RECRYSTALLIZATION OF A HEAT RESISTANT NICRWTI STEEL AT TECHNICAL HOT WORKING AND AUSTENITIZING TEMPERATURES 67-09 M14-76695

HEAT RESISTANT STEELS, HARDENING
EFFECT OF PLASTIC DEFORMATION TEMPERATURE ON THE AGEING KINETICS OF HEAT-RESISTANT AUSTENITIC STEEL WITH CARBIDE STRENGTHENING 67-01 M10-57352

HEAT RESISTANT STEELS, HEAT TREATMENT
HEAT TREATING THE SUPER 12 PER CENT CR STEELS 67-01 M10-57438
A SOFTENING HEAT TREATMENT FOR LARGE FORGINGS FROM MARTENSITIC-CLASS STEELS 67-02 M10-61875
THERMOMECHANICAL PROCESSING OF TYPE EI612 HEAT RESISTANT STEEL 67-03 M17-65972
SOFTENING HEAT TREATMENT OF LARGE MARTENSITIC STEEL FORGINGS 67-04 M10-67694
A HIGH-TEMPERATURE CORROSION-RESISTANT CHROMIUM-NICKEL STEEL 67-08 M10-74874
OBTAINING A CONTROLLED ATMOSPHERE IN A FURNACE WITH A BOILING LAYER 67-08 M10-76112
STRUCTURAL CHANGES IN HEAT RESISTANT 13CRMO 4 4 AND 10 CRMO 9 10 STEELS AFTER EXTENDED ANNEALING AT 550 TO 780 C 67-09 M14-77087

HEAT RESISTANT STEELS, MECHANICAL PROPERTIES
THE EFFECT OF CARBON ON THE PROPERTIES OF 25CR-20NI HEAT RESISTING STEEL 67-01 M17-58241
HEAT RESISTANT STEEL WHICH IS NOT ALLOYED WITH CHROMIUM AND NICKEL 67-02 M17-58867
ON THE EQUALITY OF ACTIVATION ENERGY OF STRESS RUPTURE RESULTING FROM CREEP AND DISLOCATION MOVEMENT IN HIGH-ALLOY STEELS 67-02 M17-59936
STAINLESS HEAT RESISTANT 15KH16N2M STEEL 67-02 M17-61880
CONTRIBUTION TO THE STUDY OF THE FORGEABILITY OF STAINLESS AND REFRACTORY STEELS IN THE AS-CAST CONDITION 67-02 M17-62063
FORMABILITY OF DI-1 HEAT-RESISTANT STAINLESS STEEL 67-02 M17-62154
EFFECT OF PLASTIC DEFORMATION TEMPERATURE ON MECHANICAL PROPERTIES OF HEAT-RESISTANT AUSTENITIC STEELS 67-02 M17-62269
STRUCTURAL CHANGES OCCURING DURING THERMOMECHANICAL TREATMENT OF STEEL AND THEIR INFLUENCE ON THE MECHANICAL PROPERTIES 67-04 M08-67953
LONG-TERM RUPTURE STRENGTH OF ALLOYS AND PLASTICS FROM TENSILE STRENGTH AT ELEVATED TEMPERATURES 67-04 M17-66235
THE EFFECT OF DELTA-FERRITE ON THE IMPACT STRENGTH OF THE WELD METAL IN JOINTS IN TRANSITIONAL STEELS 67-04 M17-66463
FATIGUE OF ALLOYS AT ELEVATED TEMPERATURES IN A STATISTICAL ASPECT 67-04 M17-67232
ON THE HIGH TEMPERATURE PROPERTIES AND THE MICROSTRUCTURES OF HIGH MANGANESE HEAT RESISTING 10M6N TYPE ALLOY 67-04 M17-67566
15KH16N2M HEAT-RESISTING STAINLESS STEEL 67-04 M17-67699
LOW-ALLOYED HEAT-RESISTANT STEEL POWER PLANTS 67-04 M17-67952
DEFORMABILITY OF DI-1 HEAT-RESISTING STAINLESS STEEL 67-04 M17-68196
DUCTILITY OF STAINLESS AND HEATPROOF STEELS 67-05 M17-69695
JETHETE M. 153 --HEAT RESISTING STEEL-- 67-06 M01-71455

HEAT RESISTANT STEELS

HIGH TEMPERATURE ALLOYS FOR USE IN REFORMER FURNACES 67-06 M17-70528
THE RESEARCH BACKGROUND OF THE THERMALLOY GRADES OF CHROMIUM-NICKEL-IRON HEAT-RESISTING ALLOYS 67-06 M17-70529
THE TENSILE PROPERTIES AT ROOM AND ELEVATED TEMPERATURES OF SOME CAST AUSTENITIC STEELS 67-06 M17-70530
THE PROPERTIES OF CAST 25 PER CENT CHROMIUM-20 PER CENT NICKEL AUSTENITIC STEELS IN RELATION TO THEIR USE AT ELEVATED TEMPERATURES 67-06 M17-70531
NOTES ON THE PROPERTIES AND WELDING OF CENTRIFUGALLY CAST 25 PER CENT CHROMIUM 20 PER CENT NICKEL ALLOY STEEL TUBE 67-06 M17-70533
INTRODUCTION TO THE METALLURGY OF CAST HEAT-RESISTING ALLOYS 67-06 M17-70534
ON THE HIGH-TEMPERATURE STRENGTH OF AUSTENITIC HEAT RESISTING ALLOYS 67-06 M17-71719
INTRODUCTION TO THE USE OF CAST ALLOY MATERIAL FOR HYDROCARBON PROCESSING IN THE U. S. A. 67-06 M20-70532
EQUALITY OF THE ACTIVATION ENERGIES OF LONG-TIME FAILURE, STEADY-STATE CREEP AND DISLOCATION CLIMB IN HIGH ALLOYS 67-07 M17-72591
THE STRESS-RELAXATION PROPERTIES OF TAF STEEL 67-07 M17-72977
TECHNOLOGICAL DUCTILITY OF STAINLESS AND HEAT-RESISTANT STEELS 67-07 M17-74081
A HEAT RESISTANT STEEL 67-08 M01-74870
A HIGH-TEMPERATURE STEEL 67-08 M01-74871
THERMAL METHOD OF LOADING IN INTERMITTENT STATIC TESTING 67-08 M17-74530
TIME-DEPENDENT CREEP AND SIMULTANEOUS STRUCTURAL CHANGES IN HEAT RESISTANT STEELS 67-08 M17-75697
INFLUENCE OF THE STRUCTURE ON THE CREEP RESISTANCE OF REFRACTORY ALLOYS 67-08 M17-76040
NITROGEN-ALLOYED HEAT AND SCALE-RESISTANT STEEL CASTINGS. PT. 1 67-09 M17-76521
IMPROVEMENT OF LOW-ALLOY HEAT RESISTING STEELS 67-09 M17-77585
DEVELOPMENT AND INVESTIGATION OF HEAT RESISTANT STEELS ALLOYED WITH COBALT 67-10 M17-78945
RELAXATION TESTS OF HIGH-TEMPERATURE STRUCTURAL STEELS AND CAST STEEL 67-11 M17-80511
PROBLEMS AND DEFICIENCIES ASSOCIATED WITH THE USE OF STEEL IN GAS TURBINE ENGINEERING 67-11 M20-80284
MECHANICAL PROPERTIES OF DI-1 STEEL AT ELEVATED TEMPERATURES 67-12 M17-82193

HEAT RESISTANT STEELS, MELTING
ELECTROSLAG REMELTING OF CHROMIUM-MANGANESE-NICKEL HEAT-RESISTING EI481 STEEL 67-07 M04-74071
METALLURGICAL FACTORS AFFECTING PROPERTIES OF HEAT RESISTANT STEELS 67-09 M04-76813
INFLUENCE OF MELTING UNDER VACUUM ON THE PROPERTIES OF FERRITIC HIGH-TEMPERATURE STEEL 67-09 M04-77222

HEAT RESISTANT STEELS, METAL WORKING
THERMOMECHANICAL TREATMENT OF HEAT-RESISTANT MARTENSITIC STEELS 67-02 M10-60293
BLANKING-OFF REFORMER TUBES DURING PLANT OPERATION 67-06 M07-70540

HEAT RESISTANT STEELS, METALLOGRAPHY
OBTAINING THIN FOIL FROM WELDED JOINT METAL FOR STUDY OF DISLOCATION STRUCTURE 67-04 M13-66441
METHOD OF REMOVING THIN FOIL FROM WELDED JOINTS FOR THE STUDY OF DISLOCATION STRUCTURES 67-07 M13-72700

HEAT RESISTANT STEELS, MICROSTRUCTURE
AGING STRUCTURE AND HIGH-TEMPERATURE STRENGTH OF 18 CR-12 NI HEAT RESISTING STEEL CONTAINING BORON 67-04 M17-67565
WELD JOINTS OF HEAT RESISTANT STEELS IN OPERATIONAL CONDITIONS 67-07 M11-73036

HEAT RESISTANT STEELS, PHASE TRANSFORMATIONS
OBSERVATIONS MADE WITH CARBURIZATION AND IRREVERSIBLE TRANSFORMATION OF IRON-CHROMIUM-NICKEL-CARBON ALLOYS 67-07 M14-73289

HEAT RESISTANT STEELS, PHYSICAL PROPERTIES
A NEW HEAT-RESISTANT STEEL FOR INTERNAL COMBUSTION ENGINE EXHAUST VALVES 67-08 M20-75020
ALLEGHENY LUDLUM 419. --HIGH TEMPERATURE ALLOY-- 67-09 M01-76522
AISI TYPE 310 --HEAT AND CORROSION RESISTANT STEEL-- 67-09 M01-76527

HEAT RESISTANT STEELS, REFINING
DEOXIDATION OF HIGH ALLOY STEEL WITH SILICON 67-06 M04-72389
IMPROVING THE QUALITY OF DI-1 STEEL IN ELECTROSLAG AND VACUUM ARC MELTING 67-11 M04-80856

HEAT RESISTANT STEELS, THERMAL PROPERTIES
METALS WORKABLE AT HIGH TEMPERATURES AND UNDER STRONG PRESSURE--THEIR CHARACTERISTICS, USE AND APPLICATION TO PETROLEUM CHEMISTRY 67-04 M15-67295
MATERIALS IN AN ATLAS-AGENA SHROUD 67-05 M20-68685

HEAT RESISTANT STEELS, TURBINE BLADES
THEORY OF ALLOYING AND SELECTION OF CREEP-RESISTING STEEL COMPOSITIONS FOR HIGHLY STRESSED TURBINE BLADE CASTINGS 67-02 M14-61016

HEAT RESISTANT STEELS, WELDING
WELDING TURNING BUTTS OF THICK-WALLED PIPES WITHOUT BACKING RINGS 67-01 M11-58210
WELDING HEAT-RESISTANT CHROMIUM STEEL EI756 67-01 M11-58212
SUBMERGED ARC WELDING OF KH25 N20S2 HEAT-RESISTANT AUSTENITIC STEEL AND KH18N35S3 ALLOY 67-01 M11-58276
WELDING OF KH8VL STEEL CAST FITTINGS TO PREVIOUSLY WELDED KH8VF STEEL TUBES 67-02 M11-60011
CAPACITOR DISCHARGE MACHINES FOR SPOT-WELDING OF LIGHT ALLOYS 67-02 M11-60018
TST-23 ELECTRODES FOR WELDING KH16N14V2BR TYPE STEELS 67-04 M11-66466
THE SUBMERGED ARC WELDING OF KH25N20S2 STEEL AND KH18N35S3 ALLOY 67-04 M11-67357
WELDING METALLURGY OF CAST AUSTENITIC MATERIALS 67-06 M11-70536
THE WELDING OF HIGH ALLOY MATERIALS RELEVANT TO PRESSURE STEAM-REFORMING OF NAPHTHA 67-06 M11-70537
FAILURES OF HEADER SUPPORT BRACKET ASSEMBLIES 67-06 M11-70538
EXPERIENCES IN CONSTRUCTION AND OPERATION OF THE ICI TUBULAR REFORMER AT THE EFFINGHAM STREET WORKS OF THE EAST MIDLANDS GAS BOARD 67-06 M11-70541
INFLUENCE OF MICROSEGREGATIONS PRODUCED ON THE HEAT AFFECTED ZONE ON THE WELDABILITY OF HEAT RESISTANT Z3NCT25 SHEET STEEL 67-09 M11-78042
THE RESULTS OF JOINT CREEP RUPTURE TESTS ON WELDS OF HEAT RESISTANT STEELS 67-09 M11-78192
PROBLEMS OF MATERIALS OF WELDED STRUCTURES OF AUSTENITIC HEAT RESISTANT BOILER PLATE STEELS 67-10 M11-79788

HEAT SHIELDS
RECRYSTALLIZATION BEHAVIOR AND BRAZING OF THE TZM MOLYBDENUM ALLOY 67-09 M11-78146

HEAT SHIELDS, COMPOSITE MATERIALS
BI-COMPOSITIONAL CARBON-SILICA FIBERS 67-07 M09-73353

HEAT TRANSFER
CALCULATING A CYLINDRICALLY SHIELDED SYSTEM FOR INDUCTION HEATING 67-01 M10-58196
STUDY OF OPENHEARTH FURNACE REGENERATORS BY ELECTRICAL SIMULATION 67-02 M04-60653
FORMATION OF GAPS BETWEEN THE CASTING AND THE METAL MOULD 67-02 M06-61915
CALCULATING THE THERMAL CYCLE IN ELECTROSLAG WELDING 67-02 M11-62160
EXPERIMENTAL STUDY OF BODY MELTING IN A FUSED LIQUID SYSTEM 67-02 M15-58858
THE HEAT FLOW INTO A BODY SUBJECTED TO A PLASMA JET 67-02 M15-59797
EXPERIMENTAL STUDY OF HEAT TRANSFER DURING QUENCHING OF VERY SMALL METAL PARTS 67-02 M15-61994
THE GATING OF DIECASTINGS 67-03 M06-65682
HEAT PENETRATION IN MOLD WALL AFTER POURING 67-04 M03-68042
ELECTROTHERMAL MODELING OF THE PROCESS OF HARDENING AND HEATING RIMMED STEEL INGOTS IN SOAKING PITS 67-04 M04-67621
LUBRICATION IN THE CONTINUOUS CASTING PROCESS 67-04 M04-67752
SOLIDIFICATION OF A CASTING IN PRESSURE DIE CASTING 67-04 M06-66420
COOLING OF MOLDS DURING PIPE CASTING 67-04 M06-67505
CALCULATING THERMAL CYCLES DURING ELECTROSLAG WELDING 67-04 M11-67167

RESEARCH INTO THE TRANSIENT THERMAL FIELD IN ALUMINIUM CLAD STEEL 67-04 M11-67349
HEAT PROPAGATION DURING THE FUSION WELDING OF ALUMINIUM TO COPPER 67-04 M11-67350
CERTAIN POWER PARAMETERS OF THE ARGON SHIELDED ARC FROM A CONSUMABLE ELECTRODE 67-04 M11-67351
TEMPERATURE PROFILES AND EDDY DIFFUSIVITIES IN LIQUID METALS 67-05 M15-69102
HEAT FLOW IN THE CONTINUOUS CASTING OF STEEL 67-06 M04-70038
HEAT TRANSFER IN CONTINUOUS CASTING MOLDS 67-06 M04-71329
SOME CONSIDERATIONS RELATING TO BLAST FURNACE AUTOMATION. PT. 3. EXAMINATION OF BLAST FURNACE OPERATION 67-06 M04-72400
THERMAL MOLD PROBLEMS IN DIE CASTING 67-06 M06-71092
HEAT EXTRACTION BY METALLIC MOLDS DURING SOLIDIFICATION OF SIMPLE SHAPED ALUMINUM AND ITS ALLOY CASTINGS 67-06 M08-70675
HEAT TRANSMISSION IN REHEATING AND HEAT-TREATMENT FURNACES--SOME RECENT DEVELOPMENTS 67-06 M10-71944
UO2/SHEATH HEAT TRANSFER DURING IRRADIATION 67-06 M15-70713
COMPARATIVE ASSESSMENT OF THE PRODUCTION PERFORMANCE OF BLAST FURNACES 67-07 M04-72562
GENERALIZED METHODS OF CALCULATING THE HEAT EXTRACTION IN THE SECONDARY COOLING ZONE IN THE CONTINUOUS CASTING OF STEEL 67-07 M04-73013
REPORT ON ULTRAHIGH POWER OPERATION OF ELECTRIC STEEL FURNACES 67-07 M04-73099
CRITERION OF THERMAL STATE OF THE HEARTH IN CONNECTION WITH THE CONTROL OF THE THERMAL STATE OF A BLAST FURNACE 67-07 M04-74131
AN ANALYTICAL INVESTIGATION OF THE TEMPERATURE DISTRIBUTIONS DURING RESISTANCE WELDING 67-07 M11-74283
TEMPERATURE FIELD OF THE FLAT WALL OF A CONTINUOUS CASTING MOLD 67-08 M06-74346
HEAT EXCHANGE PROCESSES IN WATER-COOLED PERMANENT MOLDS 67-08 M06-74347
SIMULATING SOLIDIFICATION AND HEATING PROCESSES IN RETANGULAR INGOTS 67-08 M06-74593
SPONTANEOUS HEATING OF POROUS MATERIALS DURING OXIDATION 67-08 M09-75852
COOLING RATES IN SPLAT COOLING 67-08 M10-75782
THE USE OF SEMICONDUCTORS FOR THE STUDY OF BOILING HEAT TRANSFER TO LOW TEMPERATURE LIQUIDS 67-08 M15-75652
CONDUCTION HEAT TRANSFER 67-08 M15-76073
CONVECTIVE HEAT EXCHANGE IN PLANE-FLOW COOLING OF STEEL STRIP 67-09 M10-77751
THERMAL ANALYSIS OF DIE CASTING DIES 67-10 M06-79750
A NUMERICAL ANALYSIS OF TEMPERATURE DISTRIBUTION IN EXTRUSION 67-10 M07-78448
INVESTIGATION OF THE THERMAL CONDUCTIVITY OF INSB-GASB SOLID SOLUTIONS 67-11 M15-80229
THE APPLICATION OF TITANIUM FOR DESALINATION PLANTS 67-11 M18-80290
CORROSION AND HEAT TRANSFER--A REVIEW 67-11 M18-81549
PRACTICAL APPLICATIONS OF CORROSION-TESTING APPARATUS UNDER HEAT TRANSFER CONDITIONS 67-11 M18-81550
CORROSION UNDER HEAT TRANSFER--SERVICE FAILURES AND LABORATORY TESTING 67-11 M18-81552
HEAT TRANSFER AND CORROSION OF HIGH-NICKEL ALLOYS 67-11 M18-81554
THERMAL INTERACTIONS BETWEEN CASTING AND DIE 67-12 M06-81954
INITIAL HEAT EXCHANGE OF METAL AND MOLD 67-12 M06-83035
HEAT EXCHANGE ON THE INTERNAL SERVICE DURING CENTRIFUGAL CASTING OF PIPES 67-12 M06-83036
A STUDY ON THE AIR GAP DURING SOLIDIFICATION OF ALUMINUM ALLOY IN THE METALLIC MOLD 67-12 M06-83111
OPTIMIZATION OF THE SOAKING PIT PROCESS 67-12 M10-83171
THERMAL EFFICIENCY OF A FAST-MOVING ARC 67-12 M11-83183
THE DEPENDENCE ON MICROSTRUCTURE OF THE HIGH TEMPERATURE PROPERTIES OF URANIUM OXIDE MOLYBDENUM AND URANIUM OXIDE AND TUNGSTEN CERMETS. PT. 2. HEAT TRANSFER PROPERTIES 67-12 M15-82503
THERMAL CONDUCTIVITY OF SILICON CARBIDE AT HIGH TEMPERATURES 67-12 M15-82786
PACKED BEDS IN METALLURGICAL OPERATIONS 67-12 M15-83076
ESTIMATION OF TEMPERATURE RISE IN ELECTRON BEAM HEATING OF THIN FILMS 67-12 M15-83274

HEAT TRANSMISSION
X-RAY STUDY OF KINETICS OF HEATING AND EVAPORATION OF EXPLODING WIRES 67-01 M15-58600
THERMOTRANSPORT OF OXYGEN IN BETA ZIRCONIUM 67-04 M15-66055
HEAT FLOW IN THE CONTINUOUS CASTING OF STEEL 67-06 M04-70038
HEAT TRANSMISSION IN REHEATING AND HEAT-TREATMENT FURNACES--SOME RECENT DEVELOPMENTS 67-06 M10-71944
PREDICTION OF HEAT INPUT FOR WELDING 67-06 M11-71686
DETERMINATION OF THE COEFFICIENT OF HEAT TRANSMISSION FROM METAL TO ROLLS DURING HOT ROLLING OF STEEL 67-09 M07-76992
MEASUREMENT OF THOMSON HEAT IN METALLIC SYSTEMS 67-10 M15-79998
AN INTEGRAL PROFILE METHOD FOR THE ANALYSIS OF HEAT FLOW IN THE CONTINUOUS CASTING OF METALS 67-12 M03-83082
TEMPERATURE MEASUREMENTS AND FLUID FLOW DISTRIBUTIONS AHEAD OF SOLID-LIQUID INTERFACES 67-12 M14-82744

HEAT TREATING FURNACES
SEE ALSO ANNEALING FURNACES
BELL FURNACES
HARDENING FURNACES
ROLLER HEARTH FURNACES
ROTARY HEARTH FURNACES
SALT BATH FURNACES
TEMPERING FURNACES
OSCILLATING-ROLLER FURNACE BOTTOM 67-01 M07-57138
NEW ANNEALING FACILITY ADDS METALLURGICAL CONTROL TO PRODUCTION 67-01 M10-57439
NEW TYPE OF PRECIPITATION TREATMENT FURNACE FOR ALUMINIUM HEATED BY GAS, OIL OR ELECTRICITY 67-01 M10-57459
NEW HEAT TREATMENT DEPARTMENT FOR KAYSER ELLISON 67-01 M10-58572
LARGE ROLLER HEARTH FURNACE IN AUSTRALIA 67-01 M10-58592
APPLICATIONS OF REFRACTORY METALS IN INDUSTRIAL FUR 67-01 M20-58451
BATCHER FOR ELECTRIC GAS CARBURIZING FURNACES 67-02 M10-58890
THE CHOICE OF SUITABLE FURNACES FOR THE HEAT TREATMENT OF MALLEABLE CAST IRON 67-03 M06-65351
KAYSER ELLISON INAUGURATES BUTANE-FIRED HEAT TREATMENT PLANT 67-04 M10-66407
VACUUM HEAT TREATING FINDS A SPOT 67-04 M10-66698
HEAT TREATING STEEL IN SELF-GENERATING ATMOSPHERE FURNACES 67-04 M10-67328
COMMERCIAL TESTING OF AN AUTOMATED FURNACE FOR NONSCALE HEATING OF METAL 67-04 M10-67622
A SECTIONAL FURNACE FOR HEAT TREATING TUBES 67-05 M10-68559
TEMPERATURE CONTROL OF HEAT TREATMENT FURNACES 67-05 M10-69483
HEAT TREATMENT OF INVESTMENT-CAST STAINLESS STEELS AND HIGH TEMPERATURE ALLOYS 67-05 M10-69889
TORRINGTONS HEAT TREATMENT PLANT AT DARLINGTON. EFCO LAYOUT AND EQUIPMENT 67-06 M10-70881
NEW HEAT TREATMENT DEPARTMENT AND WAREHOUSE FOR KAYSER ELLISON & CO. LTD 67-06 M10-71298
DROP FORGERS INSTALL NEW HEAT-TREATMENT PLANT 67-06 M10-71824
EQUIPMENT FOR THERMAL TREATMENT OF NONFERROUS METAL STRIP IN THE FORM OF A CONTINUOUS STRAND 67-06 M10-71941
USER IDEAS ON THE DESIGN OF HEAT TREATMENT FURNACES FOR NONFERROUS METALS 67-06 M10-71943
HOW GRAIN SIZE AFFECTS LIFE OF HEAT TREATING BASKETS 67-06 M20-72246
A MULTI-STAGE FURNACE FOR HEAT TREATMENT OF TUBES 67-07 M10-72470
AUSTEMPERING OF SPRINGS IN MOLTEN SALT BATHS FITTED WITH CONVEYOR BELTS 67-07 M10-72484
HEAT TREATING AND STRESS RELIEF--PRESSURE VESSELS GET TWO IN ONE 67-07 M10-72516

HEAT TREATING FURNACES

TEMPERATURE HOMOGENEITY IN THE FURNACE CHARGE AND ITS EFFECT ON THE DESIGN AND EFFICIENCY OF FURNACES 67-07 M10-73188
THE BRIGHT-HARDENING OF VERY THIN-WALLED PARTS IN AN EXISTING MULTIPURPOSE RETORT FURNACE 67-07 M10-74214
HEAT TREATMENT OF STEEL BARS 67-08 M10-74751
STUDY OF A HEAT TREATING FURNACE WITH A SLIDING BOTTOM AND INTENSIVE RECIRCULATION OF COMBUSTION PRODUCTS 67-08 M10-75487
HARDENING INSTALLATION WITH AUTOMATIC MATERIAL FLOW 67-08 M10-75760
HEATING OF METAL IN FUSED GLASS IN NATURAL GAS-FIRED FURNACES 67-09 M10-77054
RECENT HEAT TREATMENT FURNACE INSTALLATIONS. ANNUAL SURVEY OF DEVELOPMENTS 67-10 M10-78560
SLABS LEAVE FURNACE WITHOUT SCALE 67-10 M10-78860
A CONTINUOUS VACUUM FURNACE 67-10 M10-79661
THE PRACTICE OF HEAT TREATMENT OF MALLEABLE CAST IRON 67-10 M10-79700
RAPID HEATING OF STEEL FOR HOT WORKING. PT. 2. RAPID HEATING BY JET IMPINGEMENT 67-11 M10-80675
RELATING THE FURNACE ATMOSPHERE TO THE JOB. PT. 1 67-11 M10-80903
FURNACES IN USE--RECENT INSTALLATIONS 67-11 M10-81492
A REGENERATIVE COMPARTMENT FURNACE FOR NONSCALE HEATING OF INGOTS 67-12 M10-82068
VACUUM HEAT TREATMENT FINDS GROWING FAVOUR 67-12 M10-82600
HIGH SPEED OVEN UNIT DEVELOPED FOR CURING INSIDE COATINGS ON CANS 67-12 M10-82885
FURNACES WITH PROTECTIVE ATOMSPHERES AND INDUSTRIAL P 93-94, 96, 98-103 PREHEAT TREATMENT 67-12 M10-83141
CAST ALLOY DEFIES FURNACE HEAT 67-12 M20-83481

HEAT TREATING FURNACES, AUTOMATIC CONTROL
THE JOB AND THE FURNACE ATMOSPHERE 67-01 M10-57549

HEAT TREATING FURNACES, DESIGN
HEAT TREATMENT OF ROLLING BEARINGS--THE TORRINGTON PLANT AT DARLINGTON 67-08 M10-74739
RECENT ADVANCES IN HEAT TREATMENT METHODS 67-08 M10-74748
FURNACES FOR TREATING THE REFRACTORY STEELS AND SPECIAL ALLOYS USED IN THE AERONAUTICS AND SPACE INDUSTRY 67-12 M10-83377

HEAT TREATMENT
SEE ALSO AIR HARDENING
ANNEALING
ARTIFICIAL AGING /METALLURGICAL/
AUSTEMPERING
AUSTENITIZING
BATCH ANNEALING
BORIDING
BRIGHT ANNEALING
BRIGHT TEMPERING
CARBONITRIDING
CARBURIZING
CASE HARDENING
CONTINUOUS ANNEALING
CYANIDING
DIFFUSION ANNEALING
FLAME HARDENING
GAS CARBURIZING
GRAIN REFINEMENT
HOMOGENIZING /METALLURGICAL/
INDUCTION HARDENING
ISOTHERMAL ANNEALING
ISOTHERMAL TREATMENT
MAGNETIC ANNEALING
MALLEABLIZING
MARAGING
MARTEMPERING
NATURAL AGING /METALLURGICAL/
NITRIDING
NORMALIZING /HEAT TREATMENT/
OPEN COIL ANNEALING
OVERAGING
PACK CARBURIZING
PATENTING /METALLURGICAL/
PRECIPITATION HARDENING
PRECIPITATION HEAT TREATMENT
PULSE HEATING
QUENCH HARDENING
RECRYSTALLIZATION /METALLURGICAL/
SECONDARY HARDENING
SOLUTION ANNEALING
SOLUTION HEAT TREATMENT
SPARK HARDENING
SPHEROIDIZING
STABILIZING ANNEALING
STRAIN ANNEALING
STRESS RELIEVING
TEMPER ANNEALING
TEMPERING
TUFFTRIDING
VACUUM ANNEALING

CONTRIBUTION TO THE CAST CU-ZN-SI ALLOYS 67-01 M06-57238
EFFECT OF HEAT TREATMENT ON MACHINABILITY OF CAST IRON 67-01 M08-57440
CHARACTERISTICS OF HEAT TREATMENT OF BOILER TUBES MADE OF 12KH1MF STEEL IN RELATION TO PRODUCTION METHOD 67-01 M10-57264
HEAT TREATING THE SUPER 12 PER CENT CR STEELS 67-01 M10-57438
PREDICTING HEAT TREATMENT GROWTH 67-01 M10-57969
MAKING THE MOST OF HEAT TREATING EQUIPMENT 67-01 M10-58013
ELECTRON MICROSCOPY OF PRECIPITATES IN ALUMINUM ALLOYS 67-01 M13-57988
STRUCTURE AND PROPERTIES OF LOW-ALLOY STEEL PIPE WELDS 67-01 M14-57389
FATIGUE STRENGTH OF CAST MEDIUM-CARBON STEEL 67-01 M17-57475
INVESTIGATION OF THE EFFECT OF HIGH-SPEED HEATING DURING HEAT TREATMENT ON THE STRUCTURE AND PROPERTIES OF STRUCTURAL CARBON STEEL 67-01 M17-58038
QUENCHING WITHOUT SCALE FORMATION 67-02 M10-59086
HEAT TREATMENT OF 5 PER CENT CHROMIUM STEEL DIE CASTING DIES 67-02 M10-59095
THE ROLE OF THE LABORATORY IN HEAT TREATING 67-02 M10-59804
PROGRESS IN STEEL HEAT TREATMENT IN ENGINEERING 67-02 M10-60289
DEFECT-FREE HEAT TREATMENT OF ALLOY STRUCTURAL STEELS 67-02 M10-60845
CARBIDE REACTIONS IN THE HEAT TREATMENT OF HARD FACED HIGH-SPEED STEEL 67-02 M14-61752
EFFECT OF PLASTIC DEFORMATION AND HEAT TREATMENT ON THE MAGNETIC ANISOTROPY OF A CO-PT ALLOY 67-02 M15-59662
STRESS-RELAXATION PROPERTIES OF SOME NICKEL-CHROMIUM ALLOYS FOR STEAM POWER PLANT 67-02 M17-59100
MEASURING THE LOSS IN DUCTILITY CAUSED BY TENSOTHERMAL EMBRITTLEMENT 67-02 M17-59171
PROPERTIES OF LOW-ALLOY STEEL HEAT TREATED RAILS 67-02 M17-61755
MECHANICAL AND CORROSION PROPERTIES OF SHEETS OF VD3 ALLOY 67-02 M18-61287
SURFACE HEAT TREATMENT OF CAST IRON 67-03 M10-65179
THE PROPERTIES OF NORMALIZED AND TEMPERED AND OF QUENCHED AND TEMPERED 6-1/4-INCH-THICK PLATES OF 2-1 4CR-1MO STEEL 67-03 M17-65001
THE EFFECT OF ROLLING AND ANNEALING TEMPERATURE ON THE PROPERTIES OF WROUGHT BERYLLIUM INGOT SHEET 67-03 M17-65281
THE NATURE OF STRESS-CORROSION CRACK INITIATION WITH MARTENSITIC STAINLESS STEELS 67-03 M18-65998
ALUMINUM ALLOYS AND THEIR TREATMENT 67-04 M01-67708
THE DEVELOPMENT OF STEEL CASTING ALLOYS AS REFLECTED BY NEW STANDARDS 67-04 M06-66673
IMPROVING THE QUALITY OF NICHROME MICROWIRE 67-04 M07-66219
HEAT TREATING .. A PRECISION TOOL 67-04 M10-66302
HEAT TREATMENT OF LOW-CARBON AND LOW-ALLOYED STEELS 67-04 M10-67955
OPTIMUM HEAT TREATMENT CONDITIONS FOR 1KH18N12M2TL STEEL 67-04 M10-67981
SOME EFFECTS OF HEAT TREATMENT ON THE PROPERTIES OF HIGH-SPEED TOOL STEEL. PT. 1 67-04 M10-68062
THERMOMECHANICAL TREATMENT OF COLD ROLLED TUBE 67-04 M10-68145
THE ROLE OF VANADIUM IN STEELS--ON THE PROPERTIES AND THE PRECIPITATION BEHAVIOR OF VANADIUM

CARBIDES 67-04 M14-67722
EFFECT OF HEAT TREATMENT AT 280 TO 460 C. ON ELECTRICAL RESISTANCE OF 50N PERMALLOY 67-04 M15-66088
HEAT-TREATMENT OF INVESTMENT CASTINGS 67-05 M10-68931
HEAT TREATMENT OF TOOL STEELS 67-05 M10-69183
HEAT TREATMENT OF BAR STEEL AT ACIERIES DU TEMPLE 67-05 M10-69346
THE HEAT AND SURFACE TREATMENT OF STEEL FOR CASTING DIES 67-05 M10-69356
HEAT TREATING FORGINGS 67-05 M10-69552
PROPERTIES OF ZINC COATINGS AFTER HEAT TREATMENT 67-05 M12-68372
EFFECT OF SECONDARY RECRYSTALLIZATION ON THE STRUCTURE AND MECHANICAL PROPERTIES OF SINGLE-PHASE TITANIUM ALLOYS IN THE CAST STATE 67-05 M17-68246
HARDENING TREATMENT FOR HEAT RESISTANT ALLOYS 67-05 M17-68352
EFFECT OF HEAT TREATMENT ON STRUCTURAL PROPERTIES OF CR18NI9TI STEEL FOR CASTINGS 67-05 M17-69252
CYCLING STRENGTH AND WEAR RESISTANCE OF 40KHN STEEL AFTER QUENCH WITH TEMPER AND AFTER ISOTHERMAL TREATMENT 67-05 M17-69699
INSPECTION OF THE HARDNESS OF RODS IN AN EMID-3 APPARATUS 67-05 M19-68448
PRINCIPLES OF HEAT TREATMENT OF STEELS. PT. 6. CARBON CONSTRUCTION STEELS 67-05 M19-69347
HEAT TREATMENT OF AUSTENITIC-FERRITIC WELDS 67-06 M10-70146
STABILITY OF SUPERCOOLED AUSTENITE IN GSN 17021 STEEL ON WELDING SEAMS PREHEATED AND SUBSEQUENTLY ANNEALED 67-06 M10-70358
INITIAL AND CONTINUING EDUCATION IN THE FIELD OF HEAT TREATING AND HARDENING TECHNOLOGY. PT. 9 67-06 M10-71274
HEAT TREATMENT OF CERTAIN SPECIAL STEELS 67-06 M10-71904
HEAT TREATMENT OF WROUGHT ALUMINUM ALLOYS 67-06 M10-71909
HIGH-SPEED STEELS AND HEAT TREATMENT OF PRECISION TOOLS 67-06 M10-71910
HEAT TREATMENT OF LOW-CARBON STEELS 67-06 M10-71933
CONTROLLED ATMOSPHERES FOR THE HEAT TREATMENT OF METALS 67-06 M10-71937
ASPECTS OF QUALITY CONTROL IN HEAT TREATMENT 67-06 M10-71939
USER IDEAS ON THE DESIGN OF HEAT TREATMENT FURNACES FOR NONFERROUS METALS 67-06 M10-71943
HEAT TRANSMISSION IN REHEATING AND HEAT-TREATMENT FURNACES--SOME RECENT DEVELOPMENTS 67-06 M10-71944
HEAT TREATMENT OF METALS 67-06 M10-71946
SOME EFFECTS OF HEAT TREATMENT ON THE PROPERTIES OF HIGH-SPEED TOOL STEELS. PT. 2 67-06 M10-72061
HEAT TREATMENT AS AN AID TO WELDING 67-06 M11-71940
THE EFFECT OF STRAIN HARDENING AND HEAT TREATMENT ON THE ELECTRICAL CONDUCTIVITY OF POLYCRYSTALLINE COPPER FILMS 67-06 M15-70745
THE EFFECTS OF FINAL DEOXIDATION AND HEAT TREATMENT ON THE FATIGUE STRENGTH OF CAST MEDIUM-CARBON STEEL 67-06 M17-70378
QUENCHED AND TEMPERED PLATE STEELS 67-06 M17-71328
ATMOSPHERES FOR MODERN HEAT TREATING--CONTROLLING THEIR COMPOSITION 67-06 M19-70720
THE HEAT-TREATABILITY AND PROPERTIES OF URANIUM ALLOYS 67-07 M01-73829
SCALE-FREE HEATING IN A PROTECTIVE MEDIUM OF GLASS 67-07 M10-73619
HEAT TREATMENT OF HARDFACED DIES 67-07 M10-73976
FATIGUE STRENGTH AND WEAR RESISTANCE OF 40 KHN STEEL AFTER TEMPER HARDENING AND ISOTHERMAL TREATMENT 67-07 M17-74085
THE METALLURGY OF HEAT TREATMENT 67-08 M10-74806
HEAT TREATING 67-08 M10-74846
AUTOMATIC TEMPERATURE CONTROL OF INDUSTRIAL FURNACES WITH FUEL RETURN 67-08 M10-75656
HEATING OF STRUCTURAL STEELS TO QUENCHING TEMPERATURE IN MOLTEN NACL AND KCL 67-08 M10-76109
THE IMPORTANCE OF THE HEAT TREATMENT OF THE AUSTENITIC RANGE 67-08 M10-76163
RECENT DEVELOPMENTS AND CURRENT PRACTICE IN THE MANUFACTURE OF HIGH CARBON STEEL WIRE IN THE REPUBLIC OF SOUTH AFRICA 67-09 M07-77822
INFLUENCE OF COOLING RATES ON CRACK FORMATION DURING STEEL QUENCHING 67-09 M10-77403
INFLUENCE OF THE HOLDING AT QUENCHING TEMPERATURE ON MECHANICAL PROPERTIES OF G13L STEEL 67-09 M10-77405
RAIL PRODUCTION WITH FULL HEAT TREATMENT 67-09 M10-77630
A METHOD OF HEAT TREATING STAINLESS STEEL TUBES 67-10 M10-78360
THE HOMO METHOD STEAM ATMOSPHERE HEAT TREATING 67-10 M10-78367
SOME POSSIBLE WAYS OF IMPROVING THE QUALITY, RELIABILITY AND LIFE OF MACHINE COMPONENTS BY THEIR FLUIDIZED BED HEAT TREATMENT 67-10 M10-78369
HEAT TREATMENT OF 36G2S STEEL DRIVE PIPES 67-10 M10-78438
HEAT TREATMENT OF SAW BLADES USING FUSED SALTS 67-10 M10-78439
BASIC PRINCIPLES OF HEAT TREATMENT OF STEELS FOR LOW-TEMPERATURE APPLICATIONS 67-10 M10-78856
THE HEAT TREATMENT OF STEEL PLATES 67-10 M10-79303
HEAT TREATING OF FERRO-TIC C STEEL-BONDED CARBIDE 67-10 M10-79526
HEAT TREATMENT OF STRUCTURAL STEELS AND OF TOOL STEEL 67-10 M10-79681
INFLUENCE OF HEAT TREATMENT ON THE STRUCTURE AND TENDENCY TO EMBRITTLEMENT OF THE FUSION ZONE IN PEARLITIC AND MARTENSITIC STEELS 67-10 M11-79611
ACID AND HEAT RESISTANT STAINLESS STEELS--MACHINING AND HEAT TREATMENT 67-11 M01-80390
HIGH-RESISTANCE STEELS. PT. 2. CONSTRUCTION STEELS OF VERY HIGH RESISTANCE 67-11 M01-80393
RAILS PRODUCED WITH FULL HEAT TREATMENT 67-11 M10-80918
GAS HEATING OF ROLLS DURING BUILDUP 67-11 M11-80644
MICROSTRUCTURAL CHANGES DURING AND AFTER HOT WORKING OF TECHNICAL AL ALLOYS AND THE INFLUENCE OF THERMAL TREATMENT PRIOR TO HOT WORKING 67-11 M13-80371
ASPECTS OF PRECIPITATION IN AN 18-10 STAINLESS STEEL CONTAINING MOLYBDENUM AND PHOSPHORUS ADDITIONS 67-11 M14-80241
12 PER CENT CR STEELS--CREEP-RESISTING AND HIGH-STRENGTH VARIANTS 67-11 M17-80273
HEAT TREATMENT AND MECHANICAL PROPERTIES OF DIE STEELS 67-11 M17-80971
MODERN MANUFACTURE OF DIE BLOCKS FOR THE METAL-FORMING INDUSTRIES 67-12 M01-81948
THE METALLURGY OF ALLOY 718 67-12 M01-83246
COKE-OVEN GAS- AND NATURAL GAS-FIRED INDUSTRIAL FURNACES OF MORE RECENT DESIGN FOR THE DIRECT, SCALE-FREE HEATING OF STEEL 67-12 M10-81755
CONTINUOUS HEAT TREATING PROCESS HANDLES MILLIONS OF FASTENERS PER MONTH 67-12 M10-81993
EFFECT OF THE DEGREE OF STRUCTURAL DISPERSION ON THE PROPERTIES OF CAST MEDIUM-CARBON STEEL 67-12 M10-82192
THE HEAT TREATMENT OF THE ONLY HARDENABLE HARD CARBIDE MATERIAL, FERRO-TIC-C SPECIAL. PT. 2 67-12 M10-83133
THE HEAT TREATMENT OF STEELS 67-12 M10-83167
HEAT TREATMENT OF DRILL PIPES MADE FROM 36G2S STEEL 67-12 M10-83436
HEAT TREATMENT OF COMB STRIP WITH APPLICATION OF FUSED SALTS 67-12 M10-83437
FERRITES 67-12 M15-82898
INFLUENCE OF HEAT TREATMENT ON THE WEAR RESISTANCE OF CEMENT MILL GRINDING BALLS 67-12 M17-81883
THE EFFECT OF ALPHA PLUS BETA AND BETA FORGING ON THE FRACTURE TOUGHNESS OF SEVERAL HIGH-STRENGTH TITANIUM ALLOYS 67-12 M17-81930
EFFECT OF CONTROLLED HEAT TREATMENT ON PROPERTIES OF AL-ZN-MG-CU ALLOYS 67-12 M17-82711
EFFECT OF GRAIN BOUNDARY DENUDATION OF GAMMA PRIME ON NOTCH-RUPTURE DUCTILITY OF INCONEL NICKEL-CHROMIUM ALLOYS X-750 AND 718 67-12 M17-82762

HEAT TREATMENT, ATMOSPHERES
HEAT TREATING ATMOSPHERES FOR DUCTILE IRON 67-09 M10-77394

HEAT TREATMENT, AUTOMATION
AUTOMATIC TOP-LOADED VACUUM FURNACE UTILIZED FOR SHEET OR PLATE HEAT TREATMENT 67-07 M10-73840
FURNACE CONTROL INSTRUMENTATION IN THE WIRE INDUSTRY 67-08 M19-76075
HEAT TREATMENT, QUALITY CONTROL
TECHNIQUES OF METALLOGRAPHIC QUALITY CONTROL OF THE HEAT TREATMENT OF BERYLLIUM BRONZE 67-06 M10-70182
CONTROL OF HEAT TREATMENTS BY ELECTROMAGNETIC METHODS 67-12 M19-83233
HEAT TREATMENT, WELDING
INFLUENCE OF HEAT TREATMENT ON STRUCTURE AND BRITTLEMENTS OF FUSION ZONE OF PEARLITIC AND MARTENSITIC STEELS 67-06 M11-71644
HEAT TREATMENT FURNACES
SEE HEAT TREATING FURNACES
HEATERS
SEE HEATING EQUIPMENT
HEATERS /TUBE/, WELDING
WELDING OF HEATERS IN KH5M STEEL 67-02 M11-59521
HEATING
SEE ALSO CONDUCTION HEATING
CONVECTION HEATING
ELECTRIC HEATING
ELECTRON BEAM HEATING
HOT WATER HEATING
INDUCTION HEATING
OVERHEATING
RADIANT HEATING
RESISTANCE HEATING
SLAG RESISTANCE HEATING
SUPERHEATING
METAL HEATING IN TUBE PRODUCTION 67-01 M10-57266
INVESTIGATION OF PROCESSES OCCURRING IN HEATING OF IRON SHAVINGS 67-02 M02-59178
RAPID HEATING OF BILLETS FROM HOT STATE 67-02 M07-62279
IMPROVING THE METHOD FOR HEATING INGOTS AND BILLETS OF 1KH16N4B STEEL 67-02 M10-59409
MORE PRODUCTION THROUGH MODERNIZATION 67-02 M10-61102
HEAT AT THE RIGHT SPOT STRAIGHTENS DEFORMED SHAFTS 67-04 M07-68113
REGULARITIES OF HEATING STEEL INGOTS BEFORE ROLLING 67-04 M10-66218
CASTING AND PREHEATING IN ONE LINE 67-06 M03-70498
STEEL DEGASSING, REFINING AND REHEATING IN A SINGLE LADLE 67-06 M04-70693
OPTIMUM CONDITIONS FOR HEATING INGOTS OF STAINLESS STEEL WITH 13 PER CENT CHROMIUM 67-06 M10-70101
EFFECT OF THERMOPHYSICAL PROPERTIES OF STEEL ON HEATING TECHNOLOGY 67-06 M10-70299
FUEL CONSUMPTION DURING NONSCALE HEATING OF STEELS 67-06 M10-70478
OXIDATION OF STEEL DURING HIGH-SPEED HEATING 67-06 M10-70740
USE OF RECUPERATORS IN HOLDING FURNACES 67-06 M10-71392
AUTOMATIC DEVICE FOR ELECTRIC PREHEATING OF INGOT AND CASTINGS FEEDERS 67-09 M04-76576
THE HEATING AND COOLING OF OPEN COILS IN SINGLE-PILE BELL FURNACES 67-09 M10-77346
REVIEW OF THE BASES AND METHODS OF LOW-SCALE HEATING 67-09 M18-76692
INVESTIGATION INTO THE PROCESSES TAKING PLACE DURING THE HEATING OF CAST IRON SWARF 67-10 M02-78887
CUPOLA PREHEATER GENERATES 1800-1900 F. BLAST 67-10 M04-79290
LIQUID FUEL-ASSISTED HEATING OF VANADIUM IRON IN THE BLAST FURNACE 67-10 M04-80041
RAPID HEATING OF STEEL FOR HOT WORKING. PT. 1. THE CASE FOR RAPID HEATING 67-10 M10-79283
REHEATING OF STEELS IN FORGE FURNACES WITH TURNING MECHANISM 67-11 M10-80499
CALCULATING THE HEATING OF THE EDGES OF A TUBULAR BILLET IN RADIOFREQUENCY WELDING 67-12 M11-81912
HEATING, MATHEMATICAL ANALYSIS
SLAB REHEATING 67-03 M07-65921
HEATING, ULTRASONICS
INFLUENCE OF THERMAL AND ULTRASONIC TREATMENT ON CARBIDE FORMATION DURING ANNEALING OF QUENCHED U12 CARBON TOOL STEEL 67-09 M14-77367
HEATING EFFECTS
INFLUENCE OF IGNITION CONDITIONS ON THE SINTERING OF AN IRON-ORE MIX ON THE SINTER BELT 67-07 M04-72896
THE EFFECT OF HEAT TREATMENT ON SILICON NITRIDE LAYERS ON SILICON 67-07 M13-72942
HEATING ELEMENTS /ELECTRIC/
SEE ELECTRIC HEATING ELEMENTS
HEATING EQUIPMENT
SEE ALSO AIR HEATERS
BLAST FURNACE STOVES
BOILERS
ELECTRIC HEATING ELEMENTS
SUPERHEATERS
WATER HEATERS
STEEL PIPES FOR DISTRICT --LONG DISTANCE-- HEAT INSTALLATIONS 67-08 M19-74930
HEATING ARRANGEMENTS IN A GALVANIZING PLANT 67-09 M12-77642
VACUUM FURNACES AND HEAT TREATMENTS 67-10 M10-78854
HEATING EQUIPMENT, COATING
SMITHS INDUSTRIES ADOPT ELECTROPAINTING TECHNIQUE 67-03 M12-65698
HEATING EQUIPMENT, CORROSION
BOILER SCALE REDUCED BY MAGNETIC TREATMENT 67-07 M18-74247
HEATING EQUIPMENT, MICROSTRUCTURE
TUBULAR QUARTZ ELEMENTS AND THEIR DIMENSIONING 67-01 M20-58234
HEATING FURNACES
DETERMINING HEAT LOST BY RADIATION THROUGH HOLES IN FURNACE WALLS 67-01 M10-58163
CONTINUOUS HEAT TREATING FURNACES FOR ALUMINIUM AND LIGHT ALLOY STRIP 67-04 M10-66670
AN AUTOMATED DRUM-TYPE FURNACE FOR HEATING BILLETS IN MOLTEN GLASS 67-04 M10-67038
INVESTIGATION OF SCALE FORMING DURING HEATING OF METAL IN HOLDING FURNACES OF LIGHT SECTION AND ROD MILLS 67-05 M18-68334
BLOOM REHEATING FURNACE 67-06 M07-70242
INVESTIGATION OF A W-SHAPE RADIATION TUBE WITH HIGH HEAT POWER 67-06 M10-71268
USING MOLTEN GLASS TO HEAT STEEL BILLETS 67-07 M10-73955
INVESTIGATING SCALING WHILE HEATING METAL IN CONTINUOUS FURNACES OF LIGHT-SECTION AND WIRE MILLS 67-07 M18-72862
THE HEAT WORK OF HOLDING FURNACES FOR NONSCALE HEATING 67-08 M10-74349
TESTS ON A W-SHAPED RADIANT TUBE OF INCREASED THERMAL CAPACITY 67-08 M10-75737
EXAMPLES OF THE APPLICATION OF CONTINUOUS FURNACES 67-10 M10-79792
MOBILE STRESS RELIEVING FURNACE 67-11 M10-80348
RAPID HEATING OF STEEL FOR HOT WORKING. PT. 2. RAPID HEATING BY JET IMPINGEMENT 67-11 M10-80869
RAPID HEATING OF STEEL FOR HOT WORKING. PT. 3. THE METALLURGICAL EFFECTS OF RAPID HEATING 67-12 M10-81947
HEATING FURNACES, AUTOMATION
REHEATING FURNACES FOR CONTINUOUS STEELMAKING 67-12 M10-82929
HEATING FURNACES, MATHEMATICAL ANALYSIS
SLAB REHEATING 67-03 M07-65921
HEATING PLANTS
SEE HEATING EQUIPMENT
HEATING VALUE
SEE CALORIFIC VALUE
HEATS /ENERGIES/
SEE HEAT OF ADSORPTION
HEAT OF FORMATION
HEAT OF FUSION
HEAT OF MIXING
HEAT OF REACTION
HEAT OF SOLUTION
HEAT OF SUBLIMATION
HEAT OF TRANSFORMATION
HEAT OF VAPORIZATION
SPECIFIC HEAT
HELIARC WELDING
SEE GAS TUNGSTEN ARC WELDING
HELICAL GEARS, COATING
HARDFACING REPAIRS ON IRON AND STEELWORKS EQUIPMENT 67-04 M12-66476
HELICAL GEARS, HEAT TREATMENT

INDUCTION HARDENING OF LARGE GEARS
67-08 M10-75558
AUTOMATIC INDUCTION HARDENING OF LARGE GEARS
67-09 M10-76903
HELICAL GEARS, MECHANICAL PROPERTIES
WHY GEARS FAIL 67-04 M17-67909
HELICAL GEARS, POWDER METALLURGY
HELICAL GEARS BY POWDER METALLURGY
67-08 M09-75489
HELICAL SPRINGS, MECHANICAL PROPERTIES
ON THE ANALYSIS OF CREEP TESTS USING HELICAL SPRING SPECIMENS 67-10 M17-79338
HELICOPTERS
BONDING COPTER BLADES 67-06 M11-71489
WHERE ALUMINUM INVESTMENT CASTINGS ARE USEFUL
67-09 M20-77183
HELICOPTERS, MATERIALS
STAINLESS STEEL HELICOPTER BLADES.. THEY GO WHERE THE ACTION IS 67-03 M07-65014
HELIUM, ADSORPTION
THE ADSORPTION OF HELIUM, ARGON AND NITROGEN ON GRAPHITE 67-10 M14-78499
HELIUM, INERT ATMOSPHERES
THE USE OF HELIUM AS A PROTECTIVE ATMOSPHERE IN THE TIG WELDING OF AL 67-11 M11-80931
HELIUM, REACTIONS /NUCLEAR/
CALCULATIONS AND MEASUREMENTS OF THE QUANTITIES OF HELIUM PRODUCTS BY REACTIONS IN IRRADIATED BERYLLIUM 67-07 M16-74238
HELMHOLTZ FREE ENERGY
SEE FREE ENERGY
HEMATITE, BENEFICIATION
PRELIMINARY ANALYSIS OF THE FACTORS AFFECTING THE BALLING OF IRON ORE FINES 67-01 M02-57512
THE FLOATABILITY OF FINE-GRAINED HEMATITE
67-03 M02-65203
STUDY OF THE FLOTATION PROPERTIES OF CASSITERITE, WOLFRAMITE, ILMENITE AND HEMATITE OF ONE OF THE ORE SITES OF THE VIET NAM DEMOCRATIC REPUBLIC
67-03 M02-65573
CONTROL AND AUTOMATION OF THE DWIGHT-LLOYD PROCESS
67-04 M04-68048
GENERALIZED MODEL FOR THE GASEOUS, TOPOCHEMICAL REDUCTION OF POROUS HEMATITE SPHERES
67-06 M02-71612
INFLUENCE OF BAKAL SIDERITES ON SINTERING PROCESS INDICES AND SINTER QUALITY 67-08 M02-75709
STUDY OF MINERAL FORMATION AND DESULFURIZATION IN ROASTING BARITE-BEARING HEMATITE ORES
67-09 M02-77264
LABORATORY AND PILOT PLANT DEVELOPMENT OF FLOTATION PROCEDURES FOR FINE-GRAINED HEMATITIC ORES OF MARQUETTE RANGE, MICHIGAN
67-09 M02-77534
QUALITY FEATURES AND SMELTING PROPERTIES OF PELLETS
67-09 M02-78048
HEMATITE, CRYSTAL STRUCTURE
STRUCTURAL FEATURES OF THE HAEMATITE OF IRON SCALE RELATED TO THE CONDITIONS UNDER WHICH IT WAS FORMED 67-02 M13-61924
HEMATITE, DIFFUSION
DIFFUSION OF H2-H2O THROUGH POROUS IRON FORMED BY THE REDUCTION OF HEMATITE 67-03 M14-65100
HEMATITE, MAGNETIC PROPERTIES
ANTIFERROMAGNETIC TO WEAK FERROMAGNETIC TRANSITION AND THE TEMPERATURE DEPENDENCE OF THE TRANSVERSE SUSCEPTIBILITY IN HEMATITE BELOW THE MORIN TRANSITION 67-01 M15-57447
NUCLEAR MAGNETIC RESONANCE OF FE57 IN SINGLE-CRYSTAL HEMATITE 67-02 M15-60531
ON THE BEHAVIOR OF METALS UNDER INTENSE MAGNETIC FIELD 67-04 M15-67545
PRESSURE DEPENDENCE OF THE MORIN TRANSITION IN THE WEAK FERROMAGNET ALPHA-FE2O3 67-06 M15-71795
PIEZOMAGNETIC EFFECT IN ALPHA-FE2O3
67-07 M15-73703
HEMATITE, MECHANICAL PROPERTIES
STUDY OF THE HEMATITE-BONDING MECHANISM IN IRON-ORE PELLETS 67-07 M17-72570
HEMATITE, MICROSTRUCTURE
STUDY OF THE STATE OF HEMATITE IN IRON SCALE BY SPECTROSCOPY 67-09 M13-77774
HEMATITE, PELLETS
THE DISINTEGRATION OF IRON RICH PELLETS DURING REDUCTION 67-09 M04-77709
HEMATITE, REACTIONS /CHEMICAL/
REDUCTION OF A BURDEN OF IRON OXIDES BY A GAS
67-02 M04-61993
HEMATITE, REDUCTION /CHEMICAL/
IMPROVED MATHEMATICAL MODEL FOR GASEOUS REDUCTION OF HEMATITE IN A FIXED BED 67-01 M04-57902
ON THE ABNORMAL BEHAVIOR OF HEMATITE ORE DURING REDUCTION 67-05 M04-69479
REDUCTION KINETICS OF IRON OXIDE PELLETS WITH HYDROGEN AT LOWER TEMPERATURES
67-09 M04-77985
STUDY OF THE MECHANISMS FOR REDUCTION OF HEMATITE FE2O3 TO MAGNETITE FE3O4 67-12 M04-83512
HEMATITE, REFINING
REDUCTION OF A BURDEN OF IRON OXIDES BY A GAS
67-02 M04-61962
A STUDY OF THE REACTION TEMPERATURES OBTAINED DURING THE ISOTHERMAL REDUCTION OF IRON ORES
67-04 M03-66173
THE KINETICS OF HEMATITE REDUCTION BY PARTIALLY REFORMED NATURAL GAS 67-04 M03-66174
HEMATITE, SINTERING
THE USE OF BURNED LIME AS PARTIAL REPLACEMENT FOR DOLOMITE FLUX IN SINTER MIXES
67-01 M02-57511
INFLUENCE OF SIDERITE ON SINTERING PROCESS AND QUALITY OF SINTER 67-06 M02-71240
HERF
SEE HIGH ENERGY RATE FORMING
HETEROGENEITY
HETEROGENEITY OF ZINC OXIDE DOPED WITH GALLIUM
67-02 M14-62298
THE DEVELOPMENT OF CHEMICAL HETEROGENEITY AT THE FUSION BOUNDARY IN WELDED JOINTS
67-04 M11-67347
COLORED REPRODUCTION OF X-RAY IMAGES IN THE INVESTIGATION OF HETEROGENEOUS STRUCTURES IN ELECTRON BEAM MICROANALYSIS 67-04 M13-67713
A KINETIC STUDY OF THE HETEROGENEOUS REACTIONS OF METALLIC SODIUM WITH CHLORINE AND BROMINE
67-05 M14-68616
HETEROGENEOUS NUCLEATION OF VOIDS IN QUENCHED ALUMINUM 67-05 M14-69759
RESISTIVITY INHOMOGENEITIES IN SILICON CRYSTALS
67-06 M15-70663
COMPOSITIONAL INHOMOGENEITY OF --BA, PB-- TIO3 CRYSTALS 67-08 M14-75991
THE SOLID SOLUBILITY OF TIN-ANTIMONY ALLOYS, AND ITS MICROHETEROGENIZATION 67-09 M14-76965
HETEROGENEITY, IMPURITY EFFECTS
IMPURITY EFFECTS ON HETEROGENEOUS NUCLEATION FROM THE VAPOR.. SELENIUM ON GLASS
67-06 M14-70974
HETEROGENEITY, WELDING EFFECTS
INVESTIGATION OF THE CAUSES OF HETEROGENEITY IN THE MECHANICAL PROPERTIES OF VERY THICK WELDED JOINTS
67-02 M11-60871
HETEROGENEOUS STRUCTURE
INVESTIGATION OF INHOMOGENEITIES IN GAAS BY ELECTRON-BEAM EXCITATION 67-05 M13-68621
STUDY OF THE MICROCHARACTERISTICS OF STRAIN IN REAL ALLOYS 67-08 M17-75882
HEXAGONAL CLOSE PACKED LATTICE
SEE HEXAGONAL LATTICE
HEXAGONAL LATTICE
THE CRYSTALLINE STRUCTURE OF V2C
67-04 M16-66912
KIKUCHI MAPS FOR HCP AND BCC CRYSTALS
67-05 M13-69221
INDICES OF PLANES AND DIRECTIONS IN HCP CRYSTALS
67-06 M13-70428
CRYSTAL STABILITY CALCULATIONS OF SIMPLE METALS-- ALKALI METALS AND ALUMINIUM 67-06 M13-70468
ELECTRON-DIFFRACTION STUDY OF THE PB2BI2SE5 STRUCTURE 67-06 M13-71186
ON THE HEXAGONAL CRYSTAL STRUCTURE OF IRON ALLOYS WITH TRANSITION METALS 67-06 M14-71867
ANELASTIC BEHAVIOR OF ISOLATED POINT DEFECTS IN CRYSTALS OF H C P STRUCTURE 67-07 M13-73903
NONCENTRAL FORCE MODEL FOR HEXAGONAL CLOSE-PACKED CRYSTAL LATTICES 67-08 M13-75229
EFFECT OF DISLOCATIONS IN HEXAGONAL LATTICE METALS ON X-RAY BEAM SCATTERING 67-08 M13-75254
THE CRYSTAL STRUCTURE OF PU2ZN9
67-10 M13-78561
HELIUM FIELD-ION MICROSCOPY OF HEXAGONAL CLOSE-PACKED METALS 67-10 M13-79554
THE CRYSTAL STRUCTURE OF HO4CO3
67-10 M13-79685
DEFINITION OF THE CRYSTALLINE PARAMETERS AND THE INTENSITY OF THE DEBYE-SCHERRER RAYS OF CUBIC AND HEXAGONAL CO 67-10 M13-79707
ON THE WORK-HARDENING OF HCP METALS

67-10 M17-79731
THE SOLID-PHASE TRANSFORMATION IN HAFNIUM
67-11 M13-81202
DISLOCATION SUBSTRUCTURE IN SINGLE CRYSTALS OF HEXAGONAL AG-AL ORIENTED FOR PRISMATIC SLIP
67-11 M13-81266
THE MOO3-CUO SYSTEM 67-12 M13-82139
CONCERNING A NEW TERNARY PHASE, NBMNSI
67-12 M13-82286
SURFACE STRUCTURE OF CLEAN AU --100-- AND AG --100-- SURFACES 67-12 M13-82523
EVOLUTION OF IRON CARBIDES DURING TEMPERING OF MARTENSITE 67-12 M14-81814

HEXAGONAL LATTICE, CRYSTAL GROWTH
GROWTH OF COMPLEX SINGLE-CRYSTAL HEXAGONAL FERRITES 67-08 M14-75998

HEXAGONAL LATTICE, CRYSTAL LATTICES
CALCULATION OF CLEAVAGE CHARACTERISTICS OF HEXAGONAL-CLOSE-PACKED CRYSTALS
67-01 M13-58456
BASAL AND PRISMATIC SLIP IN HCP CRYSTALS
67-06 M13-71974
STRESS FIELDS DUE TO DISLOCATION PILE-UPS IN HEXAGONAL METALS DURING ANISOTROPIC TREATMENT
67-09 M13-76794

HEXAGONAL LATTICE, ELASTIC CONSTANTS
THE DEPENDENCE OF THE CALCULATED ELASTIC CONSTANTS ON THE C..A RATIO FOR HEXAGONAL CLOSE-PACKED STRUCTURE METALS 67-06 M17-71498
DEPENDENCE OF CALCULATED ELASTIC CONSTANTS ON THE C..A RATIO OF HEXAGONAL CLOSE-PACKED METALS
67-07 M17-72957
ELASTIC CONSTANTS OF HEXAGONAL BEO, ZNS AND CDSE
67-08 M17-75130

HEXAGONAL LATTICE, LATTICE PARAMETERS
THE CRYSTALLINE STRUCTURE OF ZNTE THIN FILMS
67-03 M13-65223

HEXAGONAL LATTICE, MECHANICAL PROPERTIES
APPLICATION OF ANISOTROPIC ELASTICITY THEORY TO THE CHOICE OF PRIMARY SLIP SYSTEMS IN HCP METAL CRYSTALS 67-06 M17-71277
DIFFUSIONAL STRESS RELAXATION IN POLYMORPHOUS TRANSFORMATION 67-08 M17-74638
FATIGUE PROPERTIES OF PURE METALS
67-12 M17-83488

HEXAGONAL LATTICE, METAL WORKING
HOT DEEP DRAWING--B&P EXPERIENCE
67-03 M07-65036

HEXAGONAL LATTICE, PHASES /STATE OF MATTER/
BONDING AS INTERPRETED BY SPATIAL CORRELATION OF ELECTRONS 67-07 M14-73666

HEXAGONAL LATTICE, PRESSURE EFFECTS
EFFECT OF PRESSURE ON CRYSTAL STRUCTURE AND LATTICE PARAMETERS OF IRON UP TO 300 KBAR
67-05 M14-69220

HEXAGONAL LATTICE, STACKING FAULTS
THE MEASUREMENT OF STACKING FAULT ENERGY
67-05 M13-69454
ENERGIES OF STACKING FAULTS AND TWINS FOR NORMAL METALS 67-05 M13-69460

HEXAGONAL LATTICE, THERMODYNAMICS
ENTROPY, LATTICE PARAMETERS AND HIGH-TEMPERATURE PHENOMENA OF METALS 67-06 M13-71074

HEXAGONAL LATTICE, X RAY DIFFRACTION
TWINNING AND SOME ASSOCIATED DIFFRACTION EFFECTS IN CUBIC AND HEXAGONAL METALS. PT. 1. SELECTION RULES FOR TWINNING IN FCC, BCC AND HCP LATTICES
67-06 M13-71610
TWINNING AND SOME ASSOCIATED DIFFRACTION EFFECTS IN CUBIC AND HEXAGONAL METALS. PT. 2. DOUBLE DIFFRACTION 67-06 M13-71611
X-RAY DIFFRACTION BY HEXAGONAL CLOSE-PACKED CRYSTALS CONTAINING EXTRINSIC STACKING FAULTS
67-07 M13-72938

HIGH ALLOY STEELS
SEE ALSO ABRASION RESISTANT STEELS
MARAGING STEELS

HIGH ALLOY STEELS, CASTINGS
PROPERTIES AND APPLICATIONS OF CORROSION RESISTANT STAINLESS AND HIGH ALLOY STEEL CASTINGS
67-10 M01-79755

HIGH ALLOY STEELS, CHEMICAL ANALYSIS
EXAMPLE OF QUANTITATIVE ANALYSES WITH ELECTRON PROBE MICROANALYZER 67-02 M19-59169
ON THE DETERMINATION OF BI IN HIGH-ALLOY STEEL BY THE SPECTROPHOTOMETRIC METHOD
67-05 M19-69868
THE ANALYSIS OF HIGHLY-ALLOYED STEELS BY X-RAY FLUORESCENCE USING A SOLUTION TECHNIQUE
67-06 M19-72016
THE CHEMICAL NATURE OF NONMETALLIC INCLUSIONS AND POSSIBLE METHODS OF THEIR DETERMINATION
67-07 M13-73191
EXTERNAL CHARACTERISTICS OF NONMETALLIC INCLUSIONS AND POSSIBLE METHODS OF THEIR DETERMINATION 67-07 M13-73192
SELECTION AND EVALUATION OF STEEL WITH DIFFERENT INCLUSION CHARACTERISTICS 67-07 M13-73193
THE DETERMINATION OF HYDROGEN IN THE FREITAL SPECIAL STEEL WORKS 67-07 M19-74107
THE ANALYSIS OF HIGHLY ALLOYED STEELS BY X-RAY FLUORESCENCE SPECTROMETRY 67-08 M19-75989

HIGH ALLOY STEELS, CORROSION
RESISTANCE OF ALLOYED STEELS TO CORROSION AND EROSION 67-05 M18-68388

HIGH ALLOY STEELS, DIFFUSION
SELF-DIFFUSION OF NI IN AUSTENITE OF NICKEL STEELS
67-02 M14-59117

HIGH ALLOY STEELS, ELECTRICAL PROPERTIES
STRAIN GAGE FACTOR AND ELECTRICAL RESISTIVITY IN THE COLD WORKED STATE OF FE-NI-CR ALLOYS CONTAINING 35 WT PER CENT NI AND 0-20 WT PER CENT CR 67-11 M15-81070

HIGH ALLOY STEELS, EXTRUSION
COLD EXTRUSIONS HOT NEW LOOK 67-07 M07-73309

HIGH ALLOY STEELS, HARDENING
FORMATION OF DEFORMATION MARTENSITE ON EXPLOSIVE SHOCK LOADING OF AUSTENITIC STEELS
67-05 M14-68248

HIGH ALLOY STEELS, HEAT TREATMENT
A SALT BATH SYSTEM FOR MAKING SPRING BARS
67-03 M10-65980
SURFACE ACTIVATION IN THE HEAT TREATMENT OF METALS
67-12 M10-81938

HIGH ALLOY STEELS, MACHINING
HOW TO MACHINE CAST HIGH ALLOYS
67-05 M08-69590

HIGH ALLOY STEELS, MAGNETIC PROPERTIES
SUPERPARAMAGNETISM OF AUSTENITIC STEELS
67-02 M15-61181
MAGNETIC PROPERTIES IN THE COLD WORKED STATE OF IRON-NICKEL-CHROMIUM ALLOYS CONTAINING 35 WT PER CENT NI AND 0-20 WT PER CENT CR
67-11 M15-81071

HIGH ALLOY STEELS, MECHANICAL PROPERTIES
THE MECHANISM OF ROLLING FRICTION BETWEEN TWO STEEL BALLS IN THE CASE OF LOW LOADS
67-01 M17-57206
THE EFFECT OF CARBON ON THE PROPERTIES OF 25CR-20NI HEAT RESISTING STEEL 67-01 M17-58241
DEVELOPMENT OF MATHEMATICAL MODELS WHICH PREDICT THE MECHANICAL PROPERTIES OF HIGH ALLOY, ULTRA-HIGH STRENGTH STEEL CASTINGS 67-01 M17-58479
ULTRAHIGH-STRENGTH STEELS 67-02 M17-60621
INFLUENCE OF DECARBURIZING ON THE PROPERTIES OF CARBURIZED STEELS 67-02 M17-60850
A QUANTITATIVE EVALUATION OF THE SIZE EFFECT IN THE BRITTLE FRACTURE OF WELDED STRUCTURES
67-04 M17-66431
STUDY OF THE DURABILITY OF BUILT-UP METAL DURING CONTACT-IMPACT LOADING 67-04 M17-66570
REDUCTION OF ADSORPTION CAPACITY BY STEEL SPECIMENS IN CONTACT WITH A MELT, AND THE ROLE OF GASEOUS IMPURITIES 67-04 M17-67048
THE EFFECT OF TRACE ELEMENTS ON THE DEFORMATION BEHAVIOR OF A HIGH-TEMPERATURE NICR STEEL
67-04 M17-67410
ON THE HIGH TEMPERATURE PROPERTIES AND THE MICROSTRUCTURES OF HIGH MANGANESE HEAT RESISTING 10M6N TYPE ALLOY 67-04 M17-67566
STRENGTH AND DUCTILITY OF ALLOYED STEELS AFTER LOW TEMPERATURE THERMOMECHANICAL TREATMENT
67-04 M17-67963
ON THE HARDNESS CHANGE OF FERROUS MARTENSITE BY DEFORMATION 67-05 M17-69867
HIGH TEMPERATURE ALLOYS FOR USE IN REFORMER FURNACES 67-06 M17-70528
NOTES ON THE PROPERTIES AND WELDING OF CENTRIFUGALLY CAST 25 PER CENT CHROMIUM 20 PER CENT NICKEL ALLOY STEEL TUBE 67-06 M17-70533
THE PART PLAYED BY SIZE EFFECT DURING THE BRITTLE FRACTURE OF MEMBERS OF WELDED STRUCTURES
67-07 M17-72690
COPPER AS AN ALLOY IN STEEL AND CAST IRON
67-08 M17-74453
PUSH-PULL LOW ENDURANCE FATIGUE OF EN 25 AND EN 32B STEELS AT 20 C. AND 450 C
67-08 M17-74499

ROOT STRENGTH OF FLAME-HARDENED AND BATH-NITRIDED SPUR GEARS 67-08 M17-74759
TIME-DEPENDENT CREEP AND SIMULTANEOUS STRUCTURAL CHANGES IN HEAT RESISTANT STEELS 67-08 M17-75697
SENSITIVITY OF SHKH15 STEEL TO STRESS CONCENTRATIONS AFTER DIFFERENT HEAT TREATMENTS 67-08 M17-76006
SURFACE LAYERS AND WEAR RESISTANCE OF SHKH15 STEEL TO ROLLING FRICTION 67-08 M17-76007
BRITTLENESS OF CR-MO-V STEEL RESULTING FROM TEMPERING 67-08 M17-76013

HIGH ALLOY STEELS, METAL WORKING
NEW ELECTROLYTE IMPROVES ECM PRECISION 67-05 M08-68304

HIGH ALLOY STEELS, MICROSTRUCTURE
INFLUENCE OF CALCIUM METAL ON THE STRUCTURE AND PROPERTIES OF CAST HIGH-ALLOY CR-NI STEELS 67-02 M15-61018
THE METALLOGRAPHY OF GAMMA TO EPSILON TO ALPHA TRANSFORMATION IN HIGH-ALLOYED STEELS 67-09 M14-77793

HIGH ALLOY STEELS, NONDESTRUCTIVE TESTING
ULTRASONICS RECORDS WELD FLAWS 67-08 M19-74366

HIGH ALLOY STEELS, PHASE TRANSFORMATIONS
ON THE POSITION OF CARBON ATOMS IN CRYSTAL LATTICES OF EPSILON PRIME-, EPSILON- AND KAPPA PRIME-MARTENSITE 67-04 M14-67380
STRUCTURAL INHERITANCE IN CASE HARDENED ALLOYED STEELS 67-05 M13-68374

HIGH ALLOY STEELS, PHASES /STATE OF MATTER/
FORMATION OF SIGMA PHASE IN FE-45 PER CENT CR ALLOYS AND EFFECTS OF MOLYBDENUM ADDITIONS ON ITS DILATOMETRIC PROPERTIES 67-02 M14-59979
STRUCTURE OF AUSTENITIC MN-AL WELD METAL 67-06 M13-72302
THE STRUCTURE OF AUSTENITIC MANGANESE.. ALUMINIUM WELD METAL 67-11 M13-81574

HIGH ALLOY STEELS, REFINING
DEOXIDATION OF HIGH ALLOY STEEL WITH SILICON 67-06 M04-72389
FUNDAMENTAL CONDITIONS FOR THE PRODUCTION OF ALLOY STEELS IN THE BASIC OXYGEN LD FURNACE. PT. 1. THE PRODUCTION OF ALLOY STEELS IN A BASIC OXYGEN FURNACE 67-07 M04-72567

HIGH ALLOY STEELS, STEEL MAKING
EXPERIENCES IN INCREASING THE PRODUCTION OF ARC FURNACES IN A HIGH-ALLOY STEEL WORKS 67-04 M04-67408
ON THE ELECTRIC ARC FURNACE, WITH SPECIAL REFERENCE TO LARGE CAPACITY UNITS FOR STEEL PRODUCTION 67-07 M04-72547

HIGH ALLOY STEELS, WELDING
THE WELDING OF HIGH ALLOY MATERIALS RELEVANT TO PRESSURE STEAM-REFORMING OF NAPHTHA 67-06 M11-70537
SUBMERGED-ARC WELDING OF ARMY ARMOR 67-06 M11-71683
MIG AND TIG, BIG AT WORTHINGTON 67-09 M11-76656

HIGH ALUMINA REFRACTORIES
SEE ALUMINOUS REFRACTORIES

HIGH ENERGY RATE FORMING
SEE ALSO DYNAPAK PROCESS
EXPLOSIVE FORMING
MAGNETIC FORMING
SPARK FORMING
HERF UNDER THE MICROSCOPE 67-01 M07-57968
ON TESTING DRAW PROPERTIES OF THIN-SHEET METALS ON PTL-10 AND MTL-10 TESTERS 67-01 M17-57246
HERF SHEARS EDGES CLEAN 67-02 M07-61006
HIGH-ENERGY FORMING YIELDS HIGH SAVINGS 67-02 M07-61092
SHOCK THERMOMECHANICS 67-02 M07-61122
HIGH ENERGY ELECTRICAL FORMING 67-02 M08-60110
FUNDAMENTAL COMPUTATIONS FOR THE DEFORMATION REACTIONS THAT OCCUR IN EXTRUSION WITH A PNEUMATIC MECHANICAL HIGH-SPEED EXTRUSION PRESS 67-02 M08-60224
HIGH SPEED-HIGH ENERGY RATE FORGING MACHINE. PT. 2 67-02 M08-60721
METALWORKING 67-02 M08-61901
HERFING IN A PRECISION CAST DIE 67-03 M20-65112
APPLICATION OF A PETROFORGE MACHINE TO HIGH-SPEED SHEARING OPERATIONS 67-04 M08-66107
HIGH-SPEED METAL FORMING--A DESCRIPTION OF THE CEFF MACHINE 67-04 M08-67406
HIGH ENERGY RATE WORKING OF METALS 67-05 M01-69154
HIGH-ENERGY-RATE PROCESSES 67-05 M07-68937
THE STATUS OF SHEET-METAL FORMING TECHNOLOGY 67-05 M07-69145
MODEL EXPERIMENTS TO ELUCIDATE DEFORMATION OF CIRCULAR BLANKS DURING EXPLOSIVE FORMING 67-05 M07-69159
PRESENT AND FUTURE FIELDS OF APPLICATIONS FOR HIGH-VELOCITY FORMING METHODS 67-05 M07-69167
DEVELOPING PROCESSES FOR HIGH ENERGY RATE FORMING OF METALS 67-05 M07-69437
HIGH ENERGY RATE WORKING OF METALS 67-05 M08-69734
FACILITIES AND TOOLING FOR EXPLOSIVE FORMING AND SOME ECONOMIC ASPECTS OF H. E. R. FORMING 67-05 M08-69737
HIGH ENERGY RATE FORGING OF TI-6AL-4V ALLOY 67-05 M08-69740
SOME ASPECTS OF HIGH ENERGY RATE FORMING RESEARCH AT R. A. R. D. E. 67-05 M08-69750
THE PREPARATION OF METAL BILLETS BY BARCROPPING 67-05 M08-69874
THE FORMATION OF LATTICE DEFECTS BY SHOCK WAVES 67-05 M13-69157
THE EFFECT OF HIGH STRAIN RATE ON THE STRESS-STRAIN RELATIONSHIP OF ALUMINIUM 67-05 M17-69156
TESTING TECHNIQUES AT IMPACT RATES OF STRAIN 67-05 M17-69158
MATERIAL ASPECTS OF HIGH ENERGY RATE DEFORMATION AT AMBIENT AND ELEVATED TEMPERATURES 67-05 M17-69743
MATERIAL PROBLEMS IN HIGH-VELOCITY FORMING AND RESULTING RESEARCH TASKS 67-06 M07-70449
A NEW HIGH-VELOCITY METALWORKING MACHINE 67-06 M08-71211
SINGULARITIES OF THE MECHANISM OF THE HIGH-SPEED DEFORMATION OF COPPER 67-06 M13-72356
HIGH-ENERGY-RATE SHEET-METAL FORMING 67-07 M07-72999
DETERMINING THE FORMABILITY OF R18 STEEL AT HIGH LOADING RATES 67-07 M08-73951
VARIETY OF HERF METHODS USED FOR GD/FORT WORTHS F-111 67-08 M08-74732
APPLICATIONS OF HIGH VELOCITY HYDROELECTRICAL DISCHARGE AS A METAL FORMING AND TESTING TOOL 67-09 M08-77801
A FUNDAMENTAL EXPERIMENT IN THE DEFORMATION OF SHEET METAL ROUNDS BY UNDER-WATER CAPACITOR DISCHARGE 67-09 M08-77943
TECHNOLOGY OF SHEET METALWORKING. PT. 9 67-09 M08-77946
HIGH ENERGY RATE FORMING COMES OF AGE 67-10 M08-78766
MATERIALS FOR ENGINEERS. PT. 12. ADVANCES IN POWDER METALLURGY 67-10 M09-79500
SOME APPLICATIONS OF EXPLOSIVE FORMING 67-10 M20-78600
HIGH-ENERGY RATE FORMING OF DIE CAVITIES 67-11 M08-80566
RESEARCH RESULTS CONCERNING ELECTROHYDRAULIC FORMING 67-12 M08-82925

HIGH FREQUENCY WELDING
SEE INDUCTION WELDING

HIGH PRESSURE
BORON--ANOTHER FORM 67-01 M13-58410
RESEARCH UNDER HIGH PRESSURE AND ITS APPLICATIONS IN BELGIAN INDUSTRY 67-02 M01-59140
X-RAY DIFFRACTION STUDIES ON CDTE AT HIGH PRESSURE 67-03 M13-65719
EFFECT OF HYDROSTATIC PRESSURE ON THE MAGNETIC TRANSITION TEMPERATURES OF DY 67-04 M15-67479
EFFECT OF HYDROSTATIC PRESSURE ON THE MAGNETIC MOMENT OF CU-NI ALLOYS 67-04 M15-67480
PRESSURE EFFECT ON MAGNETIC TRANSITIONS IN CRS1.17 67-04 M15-67481
SUPERCONDUCTIVITY OF METALLIC ALUMINUM ANTIMONIDE 67-04 M16-68121
THE EFFECT OF HIGH PRESSURE ON THE SUPERCONDUCTING TRANSITION TEMPERATURE OF THE ALLOYS MO90RE10 AND NB75MO25 67-05 M16-69026
SUPERCONDUCTIVITY OF ALPHA-URANIUM AND URANIUM COMPOUNDS AT HIGH PRESSURE 67-05 M16-69513
HIGH PRESSURE AS A RESEARCH TOOL FOR SOLID-STATE PHYSICS 67-06 M14-71401
OSCILLATIONS OF ELECTRONIC THERMODYNAMIC CHARACTERISTICS OF A METAL FILM AT HIGH PRESSURES 67-06 M16-71912
MEASUREMENT OF THE MECHANICAL PROPERTIES OF SOLIDS

HIGH PRESSURE

AT HIGH PRESSURE 67-07 M17-72808
MODERN VERY HIGH-PRESSURE RESEARCH 67-10 M14-79334

HIGH PRESSURE, RESEARCH
ULTRAHIGH PRESSURE MAKES METAL ACT IN NEW WAYS 67-10 M07-78575

HIGH SPEED STEEL TOOLS, INSERTS
HSS INSERTS TO THE RESCUE 67-05 M08-68308

HIGH SPEED STEEL TOOLS, MACHINING
ELECTROLYTIC CONTOUR GRINDING 67-07 M08-72430

HIGH SPEED STEEL TOOLS, MECHANICAL PROPERTIES
INFLUENCE OF SMALL AMOUNTS OF BORON ON THE PROPERTIES OF HIGH-SPEED STEELS 67-07 M17-73259

HIGH SPEED STEEL TOOLS, METAL WORKING
DRILL LIFE.. A MEANINGFUL TEST 67-03 M08-65617

HIGH SPEED STEEL TOOLS, SERVICE TIME
ADVANCED MACHINING TECHNOLOGY 67-12 M08-82645

HIGH SPEED STEEL TOOLS, STRESS EFFECTS
INFLUENCE OF THE BUILT-UP EDGE ON THE WEAR OF THE TOOL AND CERTAIN CUTTING CHARACTERISTICS 67-06 M08-71802

HIGH SPEED TOOL STEELS
STUDY ON THE MACHINABILITY OF COLD FINISHED STEEL BARS 67-01 M08-58556
MODIFIED HIGH-SPEED STEEL 67-05 M01-69244
HIGH-SPEED STEELS--BARS, WIRE AND PROCESSED BAR PRODUCTS 67-05 M20-69194
INFLUENCE OF THE BUILT-UP EDGE ON THE WEAR OF THE TOOL AND CERTAIN CUTTING CHARACTERISTICS 67-06 M08-71802
DEVELOPMENTS IN CUTTING-TOOL MATERIALS 67-06 M20-70654
HIGH SPEED STEEL FOR CUTTING TOOLS 67-06 M20-71402

HIGH SPEED TOOL STEELS, CASTING
THE CONTINUOUS CASTING OF SMALL CROSS SECTIONS 67-02 M04-59133
CASTING OF HIGH SPEED STEELS ENRICHED WITH VANADIUM, TITANIUM, COBALT AND CARBON 67-02 M06-58970

HIGH SPEED TOOL STEELS, CORROSION
DIFFICULTIES IN TREATING TOOLS WITH INSERTED ENDS 67-03 M10-65182

HIGH SPEED TOOL STEELS, CRYSTAL GROWTH
PERMISSIBLE GRAIN SIZE IN HIGH SPEED CUTTING STEELS 67-05 M13-68391

HIGH SPEED TOOL STEELS, CUTTING TOOLS
MACHINING CHARACTERISTICS OF 18 PER CENT NICKEL MARAGING STEELS 67-01 M08-58685

HIGH SPEED TOOL STEELS, FORMING
BLAST FORMING BOOSTS HSS TO 73 RC 67-06 M07-71588

HIGH SPEED TOOL STEELS, HEAT TREATMENT
SOME EFFECTS OF HEAT TREATMENT ON THE PROPERTIES OF HIGH-SPEED TOOL STEEL. PT. 1 67-04 M10-68062
NEW DEVELOPMENT IN THE FIELD OF SURFACE HARDENING 67-05 M10-69321
NEW HEAT TREATMENT DEPARTMENT AND WAREHOUSE FOR KAYSER ELLISON & CO. LTD 67-06 M10-71298
HIGH-SPEED STEELS AND HEAT TREATMENT OF PRECISION TOOLS 67-06 M10-71910
THE TECHNOLOGY OF HIGH-SPEED TOOL STEELS. PT. 2 67-06 M10-72055
SOME EFFECTS OF HEAT TREATMENT ON THE PROPERTIES OF HIGH-SPEED TOOL STEELS. PT. 2 67-06 M10-72061
HIGH-SPEED TOOL STEELS WITH INCREASED CARBON CONTENTS 67-06 M10-72163
NEW SALT BATHS FOR LOW-TEMPERATURE HEAT TREATMENT OF STEEL 67-07 M10-72666
HEAT TREATMENT AND DESCALING OF WIRE ROD IN VACUO 67-07 M10-72715
EFFECT OF MANUFACTURING CONDITIONS ON THE UNIFORMITY OF STRUCTURE OF HIGH-MOLYBDENUM HIGH-SPEED STEELS 67-07 M10-72720
BASIC FACTORS INFLUENCING THE AUSTENITIZING TEMPERATURES OF STEELS 67-07 M10-73839
HEAT TREATMENT OF ROLLING BEARINGS--THE TORRINGTON PLANT AT DARLINGTON 67-08 M10-74739
LOW-TEMPERATURE NITROCEMENTATION OF HIGH-SPEED CUTTING STEELS 67-08 M10-76044
PREPARED ATMOSPHERE QUENCHING OF HIGH-SPEED STEELS AND HIGH-CARBIDE HIGH-SPEED STEELS WITHOUT DEFORMATION 67-09 M10-77833
RAPID HEATING OF STEEL FOR HOT WORKING. PT. 3. THE METALLURGICAL EFFECTS OF RAPID HEATING 67-11 M10-81364

HIGH SPEED TOOL STEELS, MACHINABILITY
INVESTIGATION INTO 18-4-1 HIGH-SPEED TOOL STEEL CONTAINING 0.25 PER CENT SULFUR 67-07 M17-73245

HIGH SPEED TOOL STEELS, MACHINING
THE QUESTION OF THE LIFE OF GRINDING WHEELS 67-03 M08-65726
LIQUID STREAMS DRILL HOLES IN TOUGH METALS 67-07 M08-73308
ECDM A REVOLUTION IN GRINDING TECHNIQUE 67-07 M08-74102
ECDM--A NEW DIMENSION IN GRINDING 67-07 M08-74258
DIAMOND GRINDING WHEELS 67-08 M08-75836
THE TECHNOLOGY OF HIGH-SPEED STEELS. PT. 3. SPECIAL GRADES, DIMENSIONALLY STABLE AND SULFURIZED HIGH-SPEED STEEL 67-10 M07-79957
THE RELATIONSHIP BETWEEN CUTTING FORCE, CHIP FORMATION AND TEMPERATURE IN TURNING WITH HIGH-SPEED TOOL STEELS 67-12 M08-82933
THE USE OF CUTTING TEMPERATURE AS A MEASURE OF THE MACHINABILITY OF STEELS 67-12 M08-82948

HIGH SPEED TOOL STEELS, MECHANICAL PROPERTIES
THE TECHNOLOGY OF HIGH SPEED STEELS. PT. 1 67-01 M17-58720
POSSIBLE APPLICATIONS FOR HIGHLY WEAR-RESISTANT CUTTING MATERIALS 67-02 M17-59617
TIC.. A NEW ERA IN CUTTING TOOLS 67-03 M17-65011
INFLUENCE OF INCREASED SULFUR CONTENTS IN HIGH-SPEED STEELS 18.4.1. ON THE TECHNOLOGICAL AND MECHANICAL PROPERTIES 67-04 M17-66185
IMPROVING THE DUCTILITY OF HIGH-SPEED STEELS WITH 9 PER CENT TUNGSTEN BY ADDING ALLOYING ELEMENTS 67-04 M17-67449
INVESTIGATION OF R12 STEEL 67-04 M17-67962
MUSTANG-LC 67-06 M01-71155
THE INFLUENCE OF HEAT TREATMENT FACTORS ON THE WEAR RESISTANCE OF DIES 67-06 M17-71594
INFLUENCE OF SMALL AMOUNTS OF BORON ON THE PROPERTIES OF HIGH-SPEED STEELS 67-07 M17-73259
WEAR ON HIGH-SPEED CAST STEEL TOOLS 67-08 M17-74556
INVESTIGATION OF THE CUTTABILITY OF BRONZE-GRAPHITE COMPOSITES 67-08 M17-75438
INFLUENCE OF TEMPERING ON DISPERSION HARDENING OF HIGH-SPEED STEELS 67-09 M17-77410
INFLUENCE OF AUSFORMING ON HARDNESS OF 18-4-1 HIGH SPEED STEEL 67-09 M17-78140
TECHNOLOGY OF ADVANCED CUTTING TOOL MATERIALS 67-11 M17-80294

HIGH SPEED TOOL STEELS, MELTING
METALLURGICAL DETAILS IN THE REMELTING OF S6-5-2 HIGH-SPEED STEEL IN A 200-KW ELECTRON BEAM MULTICHAMBER FURNACE 67-09 M04-77220
EFFECT OF CRYSTALLIZATION AND HEAT TREATMENT ON THE STRUCTURE AND PROPERTIES OF CAST HIGH-SPEED STEEL 67-11 M04-81664
METALLURGICAL RECULIARITIES IN THE REMELTING OF HIGH-SPEED STEEL S 6-5-2 IN THE MULTIPLE-CHAMBERED ELECTRON BEAM FURNACE, EMO 200 67-11 M17-80220
CONTROLLED CRYSTALLIZATION BY ELECTROSLAG REMELTING AND HOW IT AFFECTS THE PROPERTIES OF SPECIAL STEELS AND ALLOYS 67-12 M04-83470

HIGH SPEED TOOL STEELS, METAL WORKING
TORSION TESTING THE HOT WORKABILITY OF STEELS 67-06 M17-70980
INFLUENCE OF ELECTROSLAG REMELTING AND HOT WORKING ON THE STABILITY OF DMO 5 DRILLS 67-09 M07-77225
SOME OBSERVATIONS ON AUSFORMING OF HIGH SPEED TOOL STEEL 67-10 M07-78605

HIGH SPEED TOOL STEELS, MICROSTRUCTURE
THE STRUCTURE OF 18-4-1 HIGH-SPEED STEEL AND ITS INFLUENCE ON THE QUALITY OF CUTTING TOOLS 67-01 M19-57607
THE STUDY OF SULFURIZED HIGH-SPEED STEEL. PT. 3. INCLUSIONS IN SULFURIZED HIGH-SPEED STEEL 67-02 M13-59116
PROPERTIES OF VACUUM-REMELTED HIGH SPEED STEELS 67-02 M14-59108
STRUCTURE OF HIGH-SPEED STEELS 67-05 M13-69192
CONTRIBUTION TO MELTING AND SOLIDIFICATION OF SURFACES 67-05 M14-69420

HIGH SPEED TOOL STEELS, REFINING
INFLUENCE OF INOCULATION ON CAST STRUCTURE OF LEDEBURITE ALLOY STEELS 67-07 M04-73121

ELECTRO-SLAG REFINING TECHNOLOGY
67-09 M04-77800

HIGH SPEED TOOL STEELS, ROLLING
A ROD AND BAR MILL FOR SPECIALTY STEELS
67-02 M07-60235
THE KROSS ROLE PROCESS 67-08 M07-74361

HIGH SPEED TOOL STEELS, SAWS
FLAT PRODUCTS MADE OF HIGH-SPEED STEEL
67-05 M20-69182

HIGH SPEED TOOL STEELS, STRESS EFFECTS
WHY BRAZED CARBIDE TIPS FAIL 67-07 M17-72994

HIGH SPEED TOOL STEELS, WELDING
ARC WELDING HIGH-SPEED STEEL TIPS TO CUTTING TOOL SHANKS 67-02 M11-59795
COMPOUND KNIFE STEELS WITH WEAR-RESISTANT CUTTING EDGES 67-04 M20-66216
THE APPLICATION OF TUNGSTEN CARBIDE BY PERCUSSION
67-06 M11-72060
PERCUSSION WELDING 67-10 M11-79960

HIGH STRENGTH STEELS
AW DYNALLOY 50 --HIGH STRENGTH STRUCTURAL STEEL--
67-02 M01-59495
HIGHER CAPACITY OF NUCLEAR REACTORS AND DEVELOPMENT OF STEELS FOR PRESSURE VESSELS
67-02 M20-60718
HIGH-STRENGTH STEELS 67-03 M01-65002
UDIMAR B-250 --HIGH STRENGTH MARAGING STEEL--
67-04 M01-68067
USE OF HIGH STRENGTH STEEL IN THE TRAILER INDUSTRY
67-05 M20-69089
HIGH-STRENGTH STEELS 67-06 M01-71183
NEW STEELS AND THEIR APPLICATIONS
67-06 M20-72010
REPUBLIC RSM-200 --MARAGING HIGH STRENGTH STEEL--
67-07 M01-73156
ISO-CAST 9A --NICKEL-CHROMIUM-VANADIUM STEEL--
67-07 M01-73159

HIGH STRENGTH STEELS, ALLOYING
ALLOYING TYPE KH25N20S2 HIGH-TEMPERATURE CORROSION RESISTANT AUSTENITIC STEELS WITH 0.2-0.7 PER CENT BORON 67-08 M01-75022

HIGH STRENGTH STEELS, CASTING
THE EFFECT OF CASTING AND SOLIDIFICATION CONDITIONS ON THE PROPERTIES OF ROLLED AND FORGED PRODUCTS
67-01 M04-57916
HERFING IN A PRECISION CAST DIE
67-03 M20-65112
INFLUENCE OF THE INGOT GEOMETRY ON THE QUALITY OF TUBULAR BILLETS OF 12KH11V2MF STEEL
67-06 M06-70479

HIGH STRENGTH STEELS, CASTINGS
DESIGNING FOR HIGH-STRENGTH STEEL CASTINGS. PT. 1. PRODUCTION AND DESIGN GUIDE LINES
67-03 M06-65202

HIGH STRENGTH STEELS, CLEANING
HYDROGEN ABSORPTION BY VERY STRONG STEEL DURING CHEMICAL DESCALING 67-05 M12-68635

HIGH STRENGTH STEELS, COATING
ALTERNATIVES TO CADMIUM PLATE 67-05 M12-68828
PROGRESS, PROBLEMS AND POTENTIAL IN HOT DIP GALVANIZING 67-09 M12-77663

HIGH STRENGTH STEELS, COORROSION
CHEMICAL STUDIES ON SULFIDE CORROSION CRACKING OF STORAGE TANK MATERIALS FOR LP GAS. PT. 2. PROTECTION OF HIGH-STRENGTH STEEL IMMERSED IN LP GAS CONTAINING HYDROGEN SULFIDE
67-11 M18-80486

HIGH STRENGTH STEELS, CORROSION
STRESS-CORROSION CRACKING AND HYDROGEN-STRESS CRACKING OF HIGH-STRENGTH STEEL
67-01 M18-57202
MICROPROCESSES IN STRESS CORROSION OF MARTENSITIC STEELS 67-01 M18-58512
INFLUENCE OF INHIBITORS ON CORROSION CRACKING OF HIGH-STRENGTH STEELS 67-01 M18-58704
REPORT OF BRITTLENESS IN HIGH-STRENGTH STEEL WIRES
67-02 M17-60867
SUSCEPTIBILITY TO SULFIDE CORROSION CRACKING IN VARIOUS KINDS OF HIGH-STRENGTH STEEL. STUDIES ON SULFIDE CORROSION CRACKING OF WELDABLE HIGH-STRENGTH STRUCTURAL STEEL. PT. 1
67-02 M18-60268
EMBRITTLEMENT OF WELDABLE HIGH-STRENGTH STRUCTURAL STEELS BY SULFIDE CORROSION. PT. 2
67-02 M18-60269
TEST ON SULFIDE CORROSION CRACKING OF WELDABLE HIGH-STRENGTH STRUCTURAL STEELS IN OIL REFINING PLANTS 67-02 M18-60716
INVESTIGATIONS ON THE HIGH-TEMPERATURE CORROSION OF OIL-FIRED BOILERS 67-02 M18-62017
CORROSION FATIGUE PERFORMANCE OF A CARBON STEEL IN BRINE CONTAINING AIR, H2S AND CO2
67-03 M18-65755
ANODIC POLARIZATION BEHAVIOR OF LOW ALLOY STEELS IN SULFURIC ACID SOLUTIONS 67-03 M18-65757
EFFECT OF EXPOSURE TIME ON CAVITATION DAMAGE
67-04 M18-66232
STRESS-CORROSION SUSCEPTIBILITY OF HIGH-STRENGTH STEEL, IN RELATION TO FRACTURE TOUGHNESS
67-04 M18-66236
STUDY OF THE SULFIDE STRESS-CORROSION CRACKING OF HIGH STRENGTH STEEL. PT. 1. THE CORROSION PRODUCTS IN HYDROGEN SULFIDE AQUEOUS SOLUTION
67-04 M18-67422
CORROSION OF HIGH STRENGTH STEELS IN CARBON DIOXIDE FOR GAS COOLED POWER REACTORS
67-04 M18-67593
STRESS-CORROSION OF EXPLOSIVELY DEFORMED HIGH STRENGTH ALLOYS 67-05 M18-68713
STRESS CORROSION CRACKING OF SOME HIGH-STRENGTH STEELS, 67-05 M18-69823
THE EFFECT OF MOISTURE ON SLOW CRACK GROWTH IN THIN SHEETS OF SAE 4340 STEEL UNDER STATIC AND REPEATED LOADING 67-06 M17-71630
THE EFFECT OF THE NATURE OF THE CATHODE PROCESS ON STRESS-CORROSION CRACKING OF HIGH-STRENGTH STEELS
67-06 M18-70178
CORROSION CRACKING OF HIGH-STRENGTH STEELS IN ACIDS
67-06 M18-70192
CORROSION IN CENTRIFUGAL AIR COMPRESSORS
67-06 M18-70545
THE CORROSION SUSCEPTIBILITY OF PRESTRESSED HIGH-STRENGTH STEEL WIRE 67-07 M18-73229
STUDY OF THE SULFIDE STRESS-CORROSION CRACKING OF HIGH STRENGTH STEEL. PT. 2. ELECTROCHEMICAL BEHAVIOR OF STEELS IN HYDROGEN SULFIDE AQUEOUS SOLUTION 67-08 M18-74678
STRESS CORROSION CRACKING OF HIGH-STRENGTH STEELS AND TITANIUM ALLOYS IN CHLORIDE SOLUTIONS AT AMBIENT TEMPERATURE 67-08 M18-75775
USE OF ACID CORROSION INHIBITORS FOR CORROSION PROTECTION OF HIGH-STRENGTH CARBON STEELS
67-09 M18-76433
SULFIDE CORROSION CRACKING OF WELDABLE HIGH-STRENGTH STRUCTURAL STEEL AND COUNTERMEASURES
67-09 M18-77097
RUPTURE TESTS CARRIED OUT ON STEELS WITH HIGH TENSILE STRENGTH IN GASES AND SOLUTIONS CONTAINING HYDROGEN SULPHIDE 67-09 M18-77385
MASS TRANSFER PHENOMENA CAUSED BY LIQUID SODIUM AT NICKEL AND MOLYBDENUM ALLOYS 67-10 M18-79091
STRESS CORROSION OF EXPLOSIVELY DEFORMED HIGH-STRENGTH ALLOYS 67-11 M18-80296
CORROSION CRACKING OF HIGH-STRENGTH STRUCTURAL STEELS 67-11 M18-80583
CORROSION CRACKING OF SOME HIGH-STRENGTH STEELS
67-12 M18-82257

HIGH STRENGTH STEELS, CRYSTAL LATTICES
ON THE CRYSTAL STRUCTURE OF QUENCHED STEEL
67-04 M14-67383
EFFECT OF PLASTIC STRAIN ON THE STATE OF CARBON SOLID SOLUTION IN QUENCHED STEEL MARTENSITE
67-11 M14-80745

HIGH STRENGTH STEELS, CUTTING
EMULSIFIED CUTTING FLUIDS IN MODERN ENGINEERING
67-01 M08-58540

HIGH STRENGTH STEELS, DIES
HIGH-STRENGTH STEEL FOR MOLDS AND DIES
67-08 M17-74970

HIGH STRENGTH STEELS, EXTRUSION
HOW TO SELECT STEELS FOR COLD EXTRUSION
67-08 M07-74726

HIGH STRENGTH STEELS, FABRICATION
ADVANTAGES AND ECONOMICS OF QUENCHED AND TEMPERED WELDABLE HIGH-STRENGTH STEEL 67-06 M08-71327

HIGH STRENGTH STEELS, FATIGUE /MATERIALS/
EFFECT OF METHOD OF MELTING AND OF HEAT TREATMENT ON THE FATIGUE STRENGTH OF HIGH TENSILE STEEL
67-02 M17-60736

HIGH STRENGTH STEELS, FORGING
AUSFORGING GIVES ADDED STRENGTH TO STEEL
67-08 M08-76180

HIGH STRENGTH STEELS, FORMING
BLAST FORMING BOOSTS HSS TO 73 RC
67-06 M07-71588
EXPLOSIVE FORMING AT NORTH AMERICAN AVIATION
67-11 M08-80680

HIGH STRENGTH STEELS, GIRDERS

INTERDEPENDENCE OF TYPE OF SECTION AND STRENGTH OF STEEL 67-04 M17-66566

HIGH STRENGTH STEELS, HEAT TREATMENT
ON THE THERMOMECHANICAL TREATMENT OF STEEL 67-02 M10-60620
HIGH STRENGTH STEELS. PT. 3 67-03 M10-65835
ISOTHERMAL QUENCHING OF BAND SAW LINKS 67-04 M10-66370
HIGH STRENGTH INDUCTION WELDED TUBES 67-04 M11-67362
SUBSTITUTE TUNGSTEN STEELS IN THE AUTOMOBILE INDUSTRY 67-06 M10-71816
QUENCHED AND TEMPERED STEEL PLATES AND PROCESSING EQUIPMENT 67-06 M10-71945
THE INVESTIGATION OF THE PRECIPITATION BEHAVIOR IN HIGH-STRENGTH MARTENSITE-AGE-HARDENING NICKEL STEELS 67-06 M14-70261
QUENCHED AND TEMPERED PLATE STEELS 67-06 M17-71328
RESEARCH INTO HIGH-STRENGTH STEEL CASTINGS 67-07 M10-72991
HIGH-STRENGTH STEELS. PT. 1 67-10 M01-78853
FURNACES FOR TREATING THE REFRACTORY STEELS AND SPECIAL ALLOYS USED IN THE AERONAUTICS AND SPACE INDUSTRY 67-12 M10-83377
INFLUENCE OF REFINING OF AUSTENITIC GRAINS ON THE PROPERTIES OF LOW CARBON STEELS AFTER LOW-TEMPERATURE TEMPER 67-12 M17-83537

HIGH STRENGTH STEELS, HEATING
RECENT DEVELOPMENTS IN ELECTRIC REHEAT FURNACES 67-02 M07-59150

HIGH STRENGTH STEELS, MACHINING
MACHINING EVALUATION OF HIGH-STRENGTH MARAGING STEEL 67-01 M08-58684
MACHINING CHARACTERISTICS OF 18 PER CENT NICKEL MARAGING STEELS 67-01 M08-58685
TOOL SELECTION FOR TOUGH ALLOYS 67-03 M08-65492
MACHINING OF HIGH STRENGTH MATERIALS AT ELEVATED TEMPERATURES USING ELECTRIC CURRENT HEATING 67-03 M08-65990
THE SIGNIFICANCE OF THE SPACE-AGE METALS 67-05 M08-68506
NC PROFILING MADE FAIL-SAFE 67-05 M20-68436
CUTTING PROPERTIES OF MONOLITHIC CERMET END CUTTERS 67-07 M08-74292
MACHINING HIGH STRENGTH STEELS AND THERMAL RESISTANT ALLOYS 67-10 M08-79516
PRODUCIBILITY ASPECTS OF AEROSPACE PRODUCTS WITH REGARD TO MACHINABILITY 67-12 M08-82889

HIGH STRENGTH STEELS, MECHANICAL PROPERTIES
EFFECT OF MOLYBDENUM, NIOBIUM, AND TUNGSTEN ON THE STRUCTURE AND PROPERTIES OF AUSTENITIC CHROMIUM-MANGANESE STEELS CONTAINING NITROGEN 67-01 M17-58070
THE EFFECT OF THE PROCESSING OF HIGH-STRENGTH SIEMENS-MARTIN STEELS ON THE TENDENCY TO DELAYED FRACTURE 67-01 M17-58132
PROPERTIES OF STEEL PLATES --SUMITEN 60-- HAVING TENSILE STRENGTH OF 60 KG/MM2 67-01 M17-58248
STEEL PLATE FOR BOILERS 67-01 M17-58250
LOW ALLOY HIGH-STRENGTH STEELS FOR WELDED STRUCTURES 67-01 M17-58273
DEVELOPMENT OF MATHEMATICAL MODELS WHICH PREDICT THE MECHANICAL PROPERTIES OF HIGH ALLOY, ULTRA-HIGH STRENGTH STEEL CASTINGS 67-01 M17-58479
HIGH STRENGTH STRUCTURAL STEELS. PT. 4 67-01 M17-58530
HICON 36 AND HICON 40 --HIGH YIELD STRUCTURAL STEELS-- 67-01 M17-58568
LOW-CYCLE FATIGUE OF STEEL STRUCTURES--AN EXPERIMENTAL INVESTIGATION WITH FULL SCALE SHIP STRUCTURAL COMPONENTS 67-01 M17-58599
THE USE OF THE CRITICAL THICKNESS CONCEPT IN DESIGN 67-01 M17-58603
A MICRO-FRACTOGRAPHIC ANALYSIS OF FRACTURE SURFACES IN SOME ULTRA-HIGH-STRENGTH STEELS 67-01 M17-58609
HIGH-STRENGTH WELDABLE 13 PER CENT CHROMIUM CASTING STEEL 67-01 M17-58619
DEVELOPMENT OF IMPROVED HIGH STRENGTH STEEL CASTING ALLOYS USING MATHEMATICAL MODELS 67-01 M17-58680
EFFECT OF DEFORMATION RATE AND TEMPERATURE ON MECHANICAL PROPERTIES OF SELECTED HIGH STRENGTH ALLOYS 67-01 M17-58682
HIGH STRENGTH LOW CARBON STEELS IN RIGID PACKAGES 67-01 M20-57985
THE STRUCTURE AND MECHANICAL PROPERTIES OF 30HGSNML HIGH-STRENGTH CAST STEEL 67-02 M17-58861
USABILITY OF WEL-TEN 80C WELDED JOINTS OF HIGH-TENSION STEEL 67-02 M17-58940
MECHANICAL AND ELECTRON-MICROSCOPE INVESTIGATION OF TEMPERING PROCESSES IN V-CONTAINING AND V-FREE HARDENABLE STRUCTURAL STEELS 67-02 M17-59624
HYDROGEN ACTION IN THE PHENOMENA OF DELAYED FRACTURE IN THE FIELD OF HIGH-STRENGTH STEELS 67-02 M17-59711
INVESTIGATION OF THE ENDURANCE OF HIGH-STRENGTH REINFORCING BARS FROM LOW-ALLOY STEEL OF THE A-IV CLASS 67-02 M17-59788
BUILDING CONSTRUCTION AND HIGH-STRENGTH STEEL 67-02 M17-59962
PRESENT USE OF HIGH-STRENGTH STEEL FOR BRIDGE AND PENSTOCK STRUCTURES 67-02 M17-59965
HOW IMPORTANT IS THE STRESS RATIO 67-02 M17-60232
ULTRAHIGH-STRENGTH STEELS 67-02 M17-60621
HOW LOW CYCLE FATIGUE EMBRITTLES PRESSURE VESSEL STEELS 67-02 M17-60694
CRACK PROPAGATION IN HARD CLAD STEEL 67-02 M17-60779
CHARACTERISTICS OF FRACTURE IN CLAD HIGH-STRENGTH STEELS 67-02 M17-60794
FATIGUE OF WELDED STRUCTURES--RETROSPECT AND PROSPECT 67-02 M17-60912
STRUCTURE AND PROPERTIES OF STRUCTURAL STEEL MADE BY VARIOUS METHODS 67-02 M17-61951
USE OF 35 NCD 16 STEEL IN AERONAUTICS 67-02 M17-61964
HIGH-STRENGTH STEELS WITH LOW NI CONTENT FOR LARGE SIZE FORGINGS 67-02 M17-61968
MECHANICAL PROPERTIES OF HIGH-STRENGTH BIMETAL SHEETS 67-02 M17-61971
CONSTRUCTION OF LARGE-SIZE SHIPS AND PROBLEMS IN THE USE OF HIGH-STRENGTH STEEL 67-02 M20-59963
DESIGN AND CONSTRUCTION OF PRESSURE VESSELS UTILIZING HIGH-STRENGTH STEEL 67-02 M20-59964
STEEL GROWS WITH THE TRANSPORTATION INDUSTRY 67-03 M01-65623
VACUUM-DEGASSED STEELS FROM THE CONSUMERS VIEWPOINT 67-03 M04-65068
STRENGTHENING OF STEEL BY THERMOMECHANICAL TREATMENTS 67-03 M08-65332
METHOD FOR DETERMINING CREEP INDEXES IN RELAXATION TESTING 67-03 M17-65073
A METHOD FOR TESTING TUBES FOR CREEP STRENGTH 67-03 M17-65074
DESIGNING WITH HIGH-STRENGTH STEEL CASTINGS. PT. 3. PROPERTIES AND PROCESSING 67-03 M17-65323
ON RELAXATION TESTING OF WIRE BY MEASURING THE FREQUENCY OF NATURAL TRANSVERSE OSCILLATIONS OF A STRESSED SPECIMEN 67-03 M17-65607
IMPROVING THE STRESS RELAXATION TESTING OF WIRE 67-03 M17-65608
CHARACTERISTICS OF STRESS-STRAIN DIAGRAMS WHEN TESTING HIGH-STRENGTH STEEL CONTAINING STRAINED MARTENSITE 67-03 M17-65610
THE EFFECT OF ALLOYING ELEMENTS ON THE PROPERTIES OF THE WELDABLE HIGH STRENGTH STEEL. PT. 1. THE EFFECT OF ALLOYING ELEMENTS ON THE MECHANICAL PROPERTIES OF NORMALIZED HIGH STRENGTH STEEL. PT. 2. THE EFFECT OF ALLOYING ELEMENTS ON THE HARDENABILITY, MECHANICAL PROPERTIES AND WELDABILITY OF QUENCHED AND TEMPERED HIGH STRENGTH STEEL 67-03 M17-65821
THE EFFECTS OF ROLLING TEMPERATURE ON THE MECHANICAL PROPERTIES AND MICROSTRUCTURES OF MILD STEELS 67-03 M17-65837
CORROSION RESISTANCE OF WELDED JOINTS OF HEAT RESISTANT STEELS WHEN USED IN THE PRODUCTION OF METHANOL AND ISOBUTANOL 67-03 M18-65060
JAPANESE SPECIFICATION FOR HIGH STRENGTH WELDABLE STEELS 67-03 M19-65677
REPUBLIC-50 --HIGH-STRENGTH LOW-ALLOY CONSTRUCTION STEEL-- 67-04 M01-66122
HIGH-STRENGTH LOW-ALLOYED WELDABLE CONSTRUCTIONAL STEELS, A GENERAL SURVEY 67-04 M01-66602
EQUIBIAXIAL LOW-CYCLE FATIGUE PROPERTIES OF TYPICAL PRESSURE-VESSEL STEELS 67-04 M17-66233
CREEP-RUPTURE PROPERTIES OF CENTRIFUGALLY CAST 1 1/4CR-1/2MO ALLOY STEEL PIPE 67-04 M17-66234
FRACTURE TOUGHNESS DETERMINATIONS OF A-302B AND

NI-MO-V STEELS WITH VARIOUS SIZE SPECIMENS 67-04 M17-66237
LOW CYCLE FATIGUE CRACK PROPAGATION CHARACTERISTICS OF HIGH STRENGTH STEELS 67-04 M17-66238
CRACK PROPAGATION RESISTANCE IN STRUCTURAL STEELS 67-04 M17-66357
ALTERNATE LOADING RESISTANCE OF HIGH-STRENGTH STRUCTURAL STEEL 67-04 M17-66430
STRENGTH OF WELDED JOINTS IN STRUCTURES MADE OF HIGH-STRENGTH STEEL 67-04 M17-66567
NEW HIGH-STRENGTH STEELS AND THEIR USE IN THE MINING ENGINEERING INDUSTRY 67-04 M17-66857
HIGH-STRENGTH WELDABLE STRUCTURAL STEELS AND THEIR PROPERTIES 67-04 M17-66906
LOW ALLOY HIGH TENSILE STEELS USED FOR WELDED STRUCTURES 67-04 M17-67354
CREEP RUPTURE PROPERTIES OF LARGE WELDED SPECIMENS 67-04 M17-67587
CREEP AND RUPTURE DATA FOR DOMESTIC MATERIALS 67-04 M17-67597
CREEP-RUPTURE PROPERTIES OF SOME FERRITIC AND AUSTENITIC STEELS 67-04 M17-67598
STRUCTURE AND PROPERTIES OF CONSTRUCTIONAL STEEL MELTED BY VARIOUS METHODS 67-04 M17-67782
NEW CASE-HARDENABLE 20KHGSVT STEEL 67-04 M20-67959
RADIATION DAMAGE EXPOSURE AND EMBRITTLEMENT OF REACTOR PRESSURE VESSELS 67-05 M16-68346
THE RESIDUAL STRESS BEHAVIOR IN FATIGUE PROCESS OF HIGH TENSILE STRENGTH STEELS. PT. 1 67-05 M17-68530
TOUGHNESS OF HIGH-STRENGTH, HOT ROLLED STEELS 67-05 M17-69445
DEVELOPMENT OF 3.5 PER CENT NI-CR-MO ULTRA-HIGH STRENGTH STEEL AND ITS WELDABILITY 67-05 M17-69702
THE INFLUENCE OF AUSFORMING ON THE STRESS CORROSION SUSCEPTIBILITY OF SOME HIGH-STRENGTH STEELS 67-05 M18-69599
THE USE OF HIGH-STRENGTH STEEL PLATES IN THE FABRICATION OF FULL PIPES 67-05 M20-69349
A MECHANISM FOR CRACK FORMATION IN HY-80 STEEL WELDMENTS 67-06 M17-70140
HIGH-TENSILE STEELS CONTAINING VANADIUM FOR ENGINEERING STRUCTURES 67-06 M17-71123
FATIGUE CRACK PROPAGATION IN LOW-ALLOY HEAT-TREATED STEELS 67-06 M17-71629
EFFECT OF VARIATION IN POISSONS RATIO ON PLASTIC TENSILE INSTABILITY 67-06 M17-71631
FRACTURE TOUGHNESS OF STRUCTURAL STEELS AS A FUNCTION OF THE RATE PARAMETER 67-06 M17-71636
FEATURES AND RESULTS OF SEVERAL PROGRAMS OF RADIATION-DAMAGE SURVEILLANCE OF POWER REACTOR PRESSURE VESSELS 67-06 M17-71640
THE DEEP NOTCH TEST AND BRITTLE FRACTURE INITIATION 67-06 M17-71688
ON THE SULPHIDE CORROSION CRACKING OF HIGH STRENGTH STEEL OWING TO H2S IN CHEMICAL PLANTS 67-06 M17-72068
SOME RESULTS OF THE PRODUCTION AND APPLICATION OF HIGH-STRENGTH STRUCTURAL STEELS 67-07 M01-74272
DIRECTIONALITY OF SULFIDE CORROSION CRACKING ON THE HIGH-STRENGTH STEEL PLATE. STUDIES ON SULFIDE CORROSION CRACKING OF WELDABLE HIGH-STRENGTH STEELS. PT. 3 67-07 M17-72525
SULFIDE CORROSION CRACKING OF WELDABLE HIGH STRENGTH STEEL PLATES IN OIL REFINING PLANTS 67-07 M17-72526
CAPACITY OF HIGH TENSILE STRUCTURAL STEEL FOR RESISTING ALTERNATING LOADS 67-07 M17-72689
METHOD OF DETERMINING THE CREEP INDEX IN RELAXATION TESTS 67-07 M17-72969
A METHOD FOR TESTING TUBES FOR LONG-TERM STRENGTH 67-07 M17-72973
HIGH STRENGTH CAST STEEL 67-07 M17-73251
NEW INFORMATION ON NEUTRON EMBRITTLEMENT AND EMBRITTLEMENT RELIEF OR REACTOR PRESSURE VESSEL STEELS 67-07 M17-73389
IN-DEPTH EMBRITTLEMENT OF A SIMULATED PRESSURE 67-07 M17-73390
EFFECTS OF IRRADIATION ON A302-B STEEL SUBJECTED TO A MULTIAXIAL STRESS DISTRIBUTION 67-07 M17-73392
IN-REACTOR STUDIES OF LOW-CYCLE FATIGUE PROPERTIES OF A NUCLEAR PRESSURE VESSEL STEEL 67-07 M17-73393
THE EFFECTIVENESS OF WELDED JOINTS IN METAL STRUCTURES MADE OF HIGH TENSILE STEEL 67-07 M17-73424
CORROSION RESISTANCE OF WELDED JOINTS IN HEAT RESISTING STEELS FOR METHANOL AND ISOBUTANOL PRODUCTION PLANT 67-07 M18-73978
A HEAT RESISTANT STEEL 67-08 M01-74870
MECHANICAL PROPERTIES OF HIGH-STRENGH STEELS AT ELEVATED TEMPERATURES 67-08 M17-74342
FATIGUE FAILURE OF COMPONENTS OF LIFTING MACHINERY 67-08 M17-74502
RELAXATION TESTING OF WIRE BY MEASURING THE FREQUENCIES OF NATURAL TRANSVERSE OSCILLATIONS OF STRESSED SAMPLES 67-08 M17-74532
IMPROVING THE METHOD OF TESTING WIRE FOR STRESS RELAXATION 67-08 M17-74533
CHARACTERISTICS OF STRESS-STRAIN DIAGRAMS IN TESTING HIGH-STRENGTH STEEL WITH DEFORMED MARTENSITE 67-08 M17-74535
HIGH-TENSILE STAINLESS STEEL VNL 1 67-08 M17-74539
EXPERIENCE WITH HIGH-STRENGTH WELDABLE STEELS IN PRESSURE LINE CONSTRUCTION 67-08 M17-74939
INCREASE OF THE CREEP RESISTANCE OF MARTENSITIC-FERRITIC STEEL BY THERMOMECHANICAL TREATMENT 67-08 M17-74963
COLD BRITTLENESS OF LOW-CARBON STEEL TREATED FOR HIGH STRENGTH 67-08 M17-74977
BRITTLE FRACTURE TESTS ON STEEL PLATE TO BS. 968 IN 1962 67-08 M17-75362
SOME FACTORS AFFECTING THE FATIGUE STRENGTH OF FILLET WELDS 67-08 M17-75363
THE ENHANCEMENT OF DUCTILITY IN HIGH-STRENGTH STEELS 67-08 M17-75980
HIGH-STRENGTH STEEL PLATE APPLIED TO VEHICULAR STRUCTURES --HIGHER STRENGTH STEEL PLATE WITH EXCELLENT FORMABILITY-- 67-08 M20-75809
DEVELOPMENT TRENDS IN HIGH STRENGTH, WELDABLE STRUCTURAL STEELS ALLOYED WITH NB, V, N, TI, ZR AND OTHER ELEMENTS 67-09 M04-77583
A NOTE ON THE INFLUENCE OF CUTTING SPEED ON THE HARDNESS OF FLAME CUT BS. 968 --1962-- STEEL 67-09 M17-76359
EFFECTS OF INOCULANTS ON THE MECHANICAL AND TECHNOLOGICAL PROPERTIES OF ALLOY STEELS 67-09 M17-76983
SUSCEPTIBILITY FOR HYDROGEN EMBRITTLEMENT OF SEVERAL ULTRAHIGH-STRENGTH STEELS 67-09 M17-77260
DELAYED FAILURE OF CADMIUM PLATED STEELS AT ELEVATED TEMPERATURES 67-09 M17-77261
INVESTIGATION OF THE INFLUENCE OF CURRENT DENSITY ON HYDROGEN EMBRITTLEMENT IN A HIGH-STRENGTH STEEL CADMIUM-PLATED IN AN ALKALINE BATH. PT. 3 67-09 M17-77828
DEVELOPMENT OF HIGH-STRENGTH STRUCTURAL STEEL HAVING GOOD TOUGHNESS PROPERTIES 67-09 M17-78288
DESIGN CONSIDERATIONS IN MATERIAL SELECTION FOR ROCKET-MOTOR CASES 67-09 M20-78270
HIGH-STRENGTH STEELS WITH A LOW NICKEL CONCENTRATION FOR LARGE FORGED PIECES 67-10 M17-78825
MECHANICAL PROPERTIES OF HIGH-STRENGTH BIMETALLIC SHEETS 67-10 M17-78828
A HIGH-TENSILE STEEL FOR DRILL AND DRIVE PIPES 67-10 M17-78924
DEVELOPMENT AND INVESTIGATION OF HEAT RESISTANT STEELS ALLOYED WITH COBALT 67-10 M17-78945
INVESTIGATION OF THE EFFECTS OF RARE EARTH ELEMENTS ON THE PROPERTIES OF 12KH1 MF BOILER STEEL 67-10 M17-78954
NEW PLATE TECHNOLOGY EQUALS NEW MARKETS 67-10 M20-80094
THE MICROSTRUCTURAL ASPECTS OF TENSILE FRACTURE 67-11 M17-80144
12 PER CENT CR STEELS--CREEP-RESISTING AND HIGH-STRENGTH VARIANTS 67-11 M17-80273
THE EFFECTS OF BIAXIAL STRAIN ON MATERIAL PROPERTIES 67-11 M17-80521
HIGH YIELD SHIP STEELS 67-11 M17-80934
RESISTANCE OF STRUCTURAL STEEL TO PROPAGATION OF BRITTLE CRACKS 67-11 M17-80959
THE EFFECT OF ENVIRONMENTS ON FATIGUE-CRACK PROPAGATION IN AN ULTRAHIGH-STRENGTH STEEL 67-11 M17-81033
ON WELCON-2 H CR STEEL WITH HYDROGEN ATTACK RESISTANCE 67-11 M20-81181
HIGH-STRENGTH STEELS 67-12 M01-81758
STEELS FOR ADVANCED TECHNOLOGY 67-12 M01-82802

HIGH STRENGTH STEELS

ABSORPTION OF HYDROGEN BY STEEL DURING PICKLING AND ELECTROPLATING 67-12 M17-82427
A FRACTOGRAPHIC INVESTIGATION OF THE EFFECT OF ENVIRONMENT ON FATIGUE-CRACK PROPAGATION IN AN ULTRAHIGH-STRENGTH STEEL 67-12 M17-83045
FRACTURE BEHAVIOR OF ULTRAHIGH-STRENGTH-STEEL LAMINAR COMPOSITES 67-12 M17-83056
CRACK SENSITIVITY OF HIGH-STRENGTH STEELS WHEN TESTED IN AIR AND IN DISTILLED WATER 67-12 M17-83525
FUNDAMENTAL PROPERTIES OF HIGH STRENGTH STEELS 67-12 M20-82922
STRENGTH OF HIGH STRENGTH STEEL STRUCTURE 67-12 M20-82924
VERY HIGH-STRENGTH STEELS IN THE FRENCH AEROSPACE INDUSTRY 67-12 M20-83374

HIGH STRENGTH STEELS, MECHANICAL TESTS
INTRODUCTION TO FRACTURE TOUGHNESS 67-07 M17-72487

HIGH STRENGTH STEELS, MELTING
MANUFACTURE AND PROPERTIES OF THE STEEL ST45/60 67-12 M04-83347

HIGH STRENGTH STEELS, METAL WORKING
FORMING THE HIGH-STRENGTH STEELS 67-01 M07-58015
ON THE PRODUCT OF PLATE MILL AT WAKAYAMA STEEL WORKS 67-01 M07-58244
HEAVY I-BEAMS TAKE CURVES EASILY 67-01 M07-58486
NEW WAYS TO SHAPE HIGH-STRENGTH STEELS--STRETCHING, CONTOURING AND DROP-HAMMERING 67-01 M08-58758
STEEL WORKING PROCESSES 67-02 M07-59628
SHOCK THERMOMECHANICS 67-02 M07-61122
ON THE MANUFACTURE OF SPIRAL CASING WITH WELCON-2 H STEEL 67-02 M11-60719
THE DEEP DRAW TESTING OF SHEET METAL 67-06 M08-71564
POLYGONIZATION OF DEFORMED AUSTENITE AT LOW-TEMPERATURE THERMOMECHANICAL TREATMENT AND ITS EFFECT ON PROPERTIES OF HIGH-STRENGTH STEELS 67-06 M14-70065
EXPLOSIVE FORMING OF HIGH STRENGTH ALLOYS USED IN BOOSTER STRUCTURES 67-09 M08-77805
REACTOR PRESSURE VESSELS--DESIGN-FABRICATION-TESTING 67-09 M20-77546
POLYGONIZATION DEFORMATION OF AUSTENITE BY LOW-TEMPERATURE THERMOMECHANICAL TREATMENT AND ITS EFFECT ON THE PROPERTIES OF HIGH-STRENGTH STEEL 67-10 M14-78811
REVIEW OF ALLOYS AND FABRICATING METHODS USED FOR TACTICAL MISSILE MOTOR CASES 67-11 M20-80492

HIGH STRENGTH STEELS, METALLOGRAPHY
AN ETCHING TECHNIQUE TO REVEAL STRAIN IN HIGH-STRENGTH STEEL 67-04 M13-66943

HIGH STRENGTH STEELS, MICROSTRUCTURE
INFLUENCE OF MICROSTRUCTURE ON THE STRENGTH AND TOUGHNESS OF LOW CARBON, HIGH STRENGTH ALLOY STEEL 67-01 M17-58608
INVESTIGATION OF THE STRUCTURE OF THE CASE HARDENED LAYER OF 20KHGVT AND 20KHGSVT NICKEL-LESS STEELS 67-04 M13-66625

HIGH STRENGTH STEELS, NONDESTRUCTIVE TESTING
ATTENUATION OF LAMB WAVES AT ULTRASONIC FREQUENCIES IN STEEL AT HIGH TEMPERATURES 67-02 M19-60260

HIGH STRENGTH STEELS, PHASE TRANSFORMATIONS
NEWER METHODS TO IMPROVE THE MECHANICAL PROPERTIES OF STEEL THROUGH DEFORMATION 67-02 M17-60506
TECHNOLOGICAL FACTORS, DETERMINING THE SELECTION OF STEELS FOR FULL HARDENED RAILS 67-04 M10-66627
THE CONTINUOUS COOLING TRANSFORMATION OF WELDABLE HIGH-STRENGTH STEELS 67-12 M14-81745

HIGH STRENGTH STEELS, PHYSICAL PROPERTIES
STROLOY 5-C --LOW-ALLOY HIGH-STRENGTH TUBE STEEL-- 67-09 M01-76528

HIGH STRENGTH STEELS, RAILROAD TRACK
DEVELOPING A TECHNOLOGY FOR PRODUCING HIGH-STRENGTH RAILROAD RAILS 67-05 M08-68554
DEVELOPING A TECHNOLOGY FOR PRODUCING HIGH-TENSILE STEEL RAILWAY RAILS 67-07 M08-72465

HIGH STRENGTH STEELS, REACTIONS /CHEMICAL/
EMBRITTLEMENT OF HIGH STRENGTH AISI 4340 STEEL IN BOILING NACL SOLUTION 67-01 M17-58484

HIGH STRENGTH STEELS, REFINING
PRODUCTION OF HIGH-GRADE KILLED STEELS IN THE BASIC OXYGEN LD FURNACE. PT. 4. THE PRODUCTION OF ALLOY STEELS IN THE BASIC OXYGEN FURNACE 67-07 M04-72550
THE REMELTING OF STEEL IN VACUA AND PROTECTIVE MEDIA 67-12 M04-83344

HIGH STRENGTH STEELS, ROLLING
PRODUCTION OF HIGH STRENGTH CHROMIUM R-65 RAILS 67-06 M07-71255
PRODUCING HIGH STRENGTH R-65 CHROMIUM STEEL RAILS 67-08 M07-75724

HIGH STRENGTH STEELS, STEEL MAKING
DEVELOPMENTS IN RESEARCH ON THE LD AND CG PROCESSES AND THEIR INDUSTRIALIZATION 67-01 M04-58107
ON THE MELTING TECHNIQUES OF THE HIGH-QUALITY SPECIAL STEEL SMELTING 67-01 M04-58243
MAKING TUNGSTEN-BEARING STEEL FOR THE PRODUCTION OF HIGH-STRENGTH TUBES 67-02 M04-61956
STEEL CONTAINING TUNGSTEN MELTED FOR HIGH-TENSILE TUBES 67-04 M04-67774

HIGH STRENGTH STEELS, STRUCTURAL MEMBERS
THE INTERCONNECTION BETWEEN TYPES OF SECTION AND STEEL STRENGTH 67-07 M17-73423

HIGH STRENGTH STEELS, WELDING
AUTOMATIC SUBMERGED ARC WELDING OF 06N3 COLD-RESISTANT STEEL 67-01 M11-58203
THE NARROW-GAP MIG WELDING PROCESS FOR THICK STEEL PLATES 67-01 M11-58699
RAILROAD OVERPASS DEPENDS ON HIGH-STRENGTH STEEL 67-01 M11-58757
ON THE MECHANICAL PROPERTIES OF A WELDED JOINT OF HIGH-STRENGTH VKS1 STEEL OPERATING UNDER BIAXIAL TENSION CONDITIONS 67-01 M17-57369
QUALITY CONTROL PROCEDURES FOR WELDED FEED HEATERS 67-01 M19-57976
PRESENT AND FUTURE IRON AND STEEL INDUSTRY OF JAPAN 67-02 M11-59961
PARTIAL PROJECTIONS CAUSED BY FILLET WELDING ON THE SURFACE OF HULL PLATING 67-02 M11-60041
DEVELOPMENT OF WELDING PRACTICES IN SHIPBUILDING 67-02 M11-60042
WELDING OF STEEL FOR LOW-TEMPERATURE SERVICE. PT. 3. YND-37 STEEL, YND-58 STEEL AND 9 PER CENT NI STEEL 67-02 M11-60170
PROGRESS IN WELDING AND THE PROBLEM OF WELDING TECHNOLOGISTS IN AUSTRALIA 67-02 M11-60913
APPLICATION OF T-1 STEEL IN PRESSURE PIPING 67-02 M11-61577
THICKEST HY-80 VESSEL TESTS SUB SAFETY SYSTEM 67-02 M11-61814
PROBLEMS IN WELDING HIGH-STRENGTH STEELS 67-02 M17-59966
ACCEPTANCE TESTING OF LOW-CARBON AND LOW-ALLOY STRUCTURAL STEELS FOR WELDABILITY 67-04 M11-66436
ESTABLISHMENT OF ARC WELDING PROCEDURE OF STRUCTURAL STEELS 67-04 M11-67586
U. S. STEEL OFFICIALLY OPENS NEW ERW MILL AT LORAIN WORKS 67-05 M11-68697
EFFECT OF PHOSPHOROUS ON THE WELDABILITY OF HIGH-YIELD POINT STEELS 67-05 M17-69169
CROSS TRAVEL OF ARC AS A FACTOR IN IMPROVING THE STRUCTURE AND PROPERTIES OF WELDED JOINTS 67-05 M17-69406
CORE WIRE FOR INERT ARC WELDING OR ARC WELDING OF AUSTENITIC MANGANESE-CHROMIUM STEELS 67-06 M11-70204
CONTACT WELDING OF PINS TO BOILER PIPES 67-06 M11-70393
WELDING OF HIGH-PRESSURE PIPELINES WITHOUT INSERT RINGS 67-06 M11-72314
WELDABILITY TESTS FOR MILD AND LOW ALLOY STRUCTURAL STEELS 67-07 M11-72695
WELDING DRILL PIPES OF HIGH-STRENGTH STEELS 67-08 M11-75408
FLUX-CORED WLEDING FILLER METAL STRENGTHENS PLATFORM TRAILERS 67-08 M11-76068
SHIELDED ARC WELDING WITH CO2, USING VERY THIN TUBULAR WIRES 67-08 M11-76151
WELDABILITY OF CB-BEARING HIGH STRENGTH LOW ALLOY STEEL 67-09 M11-77952
THE RESISTANCE WELDING OF STUDS TO BOILER TUBES 67-09 M11-78093
WELDING HIGH-PRESSURE PIPELINE UNDER FIELD CONDITIONS 67-09 M11-78123
A TECHNIQUE FOR WELDING BRASS TO HIGH STRENGTH LOW ALLOY STEEL 67-09 M11-78143
SOME FATIGUE TESTS ON FILLET WELDED MILD AND HIGH TENSILE STEEL SPECIMENS IN THE AS-WELDED AND NORMALIZED CONDITIONS 67-09 M17-76653
WEAVING THE ARC AS A FACTOR IN IMPROVING THE

STRUCTURE AND PROPERTIES OF WELDED JOINTS
67-10 M17-78510
THE WELDING OF HIGH-STRENGTH STEELS AND SOME OF ITS PROBLEMS
67-11 M11-81131
WELDING HIGH PRESSURE PIPING WITHOUT PERMANENT BACKING RINGS
67-11 M11-81586
THE WELDING OF DRILL TUBES MADE OF HIGH TENSILE STEELS
67-12 M11-82029

HIGH TEMPERATURE
HIGH-TEMPERATURE BEARING MATERIALS
67-03 M20-65811

HIGH TEMPERATURE TESTS
THE GROWTH OF GRAIN BOUNDARY CAVITIES DURING HIGH TEMPERATURE FATIGUE
67-01 M17-57483
THE BUCKLING BEHAVIOR OF UNIFORMLY HEATED THIN CIRCULAR CYLINDRICAL SHELLS
67-01 M17-57542
TENSION-COMPRESSION FATIGUE TESTS ON A CO-CR-W-NI ALLOY IN TEMPERATURE RANGE OF 800 TO 1200 C
67-01 M17-57925
CREEP DUCTILITY AND DIMENSIONAL INSTABILITY OF NICKEL AT 500 AND 525 C
67-01 M17-58458
THE EFFECT OF NITROGEN ON THE TENSILE AND CREEP-RUPTURE PROPERTIES OF NIOBIUM
67-01 M17-58459
MECHANICAL PROPERTIES OF COMMERCIAL PURE TITANIUM AT HIGH TEMPERATURE
67-01 M17-58738
HIGH-TEMPERATURE OXIDATION MECHANISM IN 2.5 PER CENT TIN-ZIRCONIUM ALLOY
67-01 M18-58745
SOME EXAMPLES OF THE USE OF FLAME-SPRAYED COATINGS FOR PROTECTION AGAINST HOT GASES
67-02 M12-62026
SOME COMMENTS ON HIGH-TEMPERATURE PROPERTY DETERMINATION
67-02 M15-60708
SOME CORRELATION PROCEDURES BASED ON THE LARSON-MILLER PARAMETER AND THEIR APPLICATION TO REFRACTORY METAL DATA
67-02 M17-59436
DISCUSSION OF EFFECTS OF GRAIN SIZE ON TENSILE AND CREEP PROPERTIES OF ARC-MELTED AND ELECTRON BEAM-MELTED TUNGSTEN AT 2250 TO 4140 F
67-02 M17-59444
THE ELEVATED-TEMPERATURE STRENGTHS AND CORROSION-FATIGUE STRENGTHS OF NICKEL-COPPER ALLOY
67-02 M17-59723
TEMPERATURE DEPENDENCE OF HIGH-TEMPERATURE VACUUM TENSILE-FATIGUE LIFE AND DEFORMATION IN COPPER
67-02 M17-60145
EFFECT OF NB, TI AND B ON THE ELEVATED-TEMPERATURE MECHANICAL PROPERTIES OF A CR12W2V STEEL
67-02 M17-60210
A CONSTANT-STRAIN FATIGUE TESTING MACHINE
67-02 M17-60233
HOW LOW CYCLE FATIGUE EMBRITTLES PRESSURE VESSEL STEELS
67-02 M17-60694
INVESTIGATION OF THE STRUCTURE OF MG-3 PER CENT ND ALLOY, SUBJECTED TO HIGH-TEMPERATURE PLASTIC DEFORMATION
67-02 M17-62084
BRITTLENESS OF 475 C. IRON-CHROMIUM ALLOYS
67-02 M17-62095
THE HIGH-TEMPERATURE CORROSION RESISTANCE OF CHROMIUM ALLOYS WITH ZIRCONIUM
67-02 M18-59956
SOME VIEWPOINTS ON HIGH-TEMPERATURE CORROSION WITH THE COMBUSTION OF GAS, COAL AND OIL
67-02 M18-62013
HIGH-TEMPERATURE CORROSION BY PRODUCTS OF COMBUSTION OF FUEL OILS OF HIGH AND MEDIUM DENSITY
67-02 M18-62015
THE RESISTANCE OF ALLOYS TO HIGH TEMPERATURE CORROSION BY PRODUCTS OF COMBUSTION
67-02 M18-62024
RESULTS OF A CONTINUOUS CHECK ON MATERIALS FOR HIGH-TEMPERATURE CORROSION BY MEASURING THE ELECTROMOTIVE FORCE
67-02 M18-62028
COMBUSTION-TECHNOLOGICAL MEASURES TO COMBAT CORROSION IN COAL SMELTING BOILERS
67-02 M18-62029
PREVENTION OF SUPERHEATER CORROSION IN OIL-FIRED HIGH-TEMPERATURE BOILERS
67-02 M18-62030
CURRENT REFRACTORIES RESEARCH AND ITS APPLICATIONS
67-03 M04-65932
THE THERMAL CONDUCTIVITY OF PLATINUM BETWEEN 300 AND 1000 K
67-03 M15-65693
ELEVATED TEMPERATURE PROPERTIES OF HEAVY GAUGE CR-MO STEEL PLATES
67-03 M17-65312
EFFECTS OF SEVERAL FACTORS ON THERMAL FATIGUE
67-03 M17-65313
A MACHINE FOR LOW CYCLE HIGH-TEMPERATURE FATIGUE TESTING
67-03 M17-65315
EFFECT OF ORDERING ON HIGH-TEMPERATURE CREEP OF FE-AL ALLOYS
67-03 M17-65790
FAILURE ANALYSIS OF A GASEOUS HYDROGEN HEAT EXCHANGER-LIQUID METAL EMBRITTLEMENT
67-03 M17-65933
THE HIGH TEMPERATURE EVALUATION OF AEROSPACE MATERIALS
67-03 M17-65935
THE OXIDATION OF TUNGSTEN AT HIGH TEMPERATURES. THE SYSTEM W PLUS CO2
67-03 M18-65676
IS PROCESSING AT 2000 F. NOW POSSIBLE
67-04 M01-66109
LONG-TERM RUPTURE STRENGTH OF ALLOYS AND PLASTICS FROM TENSILE STRENGTH AT ELEVATED TEMPERATURES
67-04 M17-66235
CREEP AND TENSILE PROPERTIES OF HEAVILY DRAWN TUNGSTEN WIRE
67-04 M17-66926
THE HIGH-TEMPERATURE STEADY-STATE CREEP OF PURE SILVER AND INTERNALLY OXIDIZED SILVER-MAGNESIUM ALLOYS
67-04 M17-66935
ELEVATED-TEMPERATURE DEFORMATION MECHANISMS IN BETA PRIME-NIAL
67-04 M17-66939
INFLUENCE OF A PHASE TRANSFORMATION ON THE APPEARANCE OF HIGH-TEMPERATURE EMBRITTLEMENT AFTER NEUTRON IRRADIATION
67-04 M17-67465
ON THE HIGH-TEMPERATURE STRENGTH OF 0.35 PER CENT CARBON STEEL
67-04 M17-67595
HIGH TEMPERATURE OXIDATION OF METALS
67-04 M18-67162
HIGH-TEMPERATURE CORROSION RESISTANCE OF DISPERSION-HARDENED NICKEL
67-04 M18-67841
FRICTION AND WEAR TESTING UNDER HIGH TEMPERATURE OF CAST AND OTHER METALS
67-05 M17-68953
HIGH-TEMPERATURE CREEP OF AL2O3 CERAMICS
67-06 M17-70565
VERY HIGH TEMPERATURE VACUUM TENSILE-FATIGUE TESTER OF ELECTRICAL CURRENT TRANSIT HEATING TYPE
67-06 M17-70816
TENSILE TESTS AND STRESS-STRAIN MEASUREMENTS IN VACUUM AT HIGH TEMPERATURES
67-06 M17-71513
SHORT-TIME ELEVATED TEMPERATURE MECHANICAL PROPERTIES OF 2219-T87 AND 2219-T6 ALUMINUM ALLOY
67-06 M17-71627
STRENGTH OF ALUMINUM WITH FINELY LINED LAYERS OF ALUMINUM OXIDE AT ROOM TEMPERATURE AND HIGH TEMPERATURE
67-07 M17-72517
HIGH TEMPERATURE BEHAVIOR OF IRIDIUM-RHODIUM ALLOYS
67-07 M18-72544
THE LIFE OF SILICON CARBIDE HEATERS IN ARGON AT HIGH TEMPERATURES
67-07 M18-72615
GEAR MATERIAL FOR OPERATION AT 1000 F
67-08 M17-74491
A HIGH-TEMPERATURE IRON-BASE CASTING ALLOY
67-08 M17-75457
APPARATUS FOR MEASURING THE SHEAR STRENGTH OF ADHESIVE JOINTS AT HIGH TEMPERATURES AND METHODS FOR CONSTRUCTING THE ADHESIVE JOINTS
67-08 M17-75988
THE SIGNIFICANCE OF A CONTROLLABLE COMPOSITON OF RESIDUAL GASES IN HIGH-TEMPERATURE INVESTIGATION OF METALS BY ELECTRON MICROSCOPY
67-09 M10-76464
FUTURE DEVELOPMENTS IN THE SPECTROSCOPY OF HIGH-TEMPERATURE MOLECULES
67-09 M16-77502
TEMPERATURE DEPENDENCE OF HIGH-TEMPERATURE VACUUM TENSILE-FATIGUE LIFE AND DEFORMATION IN CU-AL ALLOY WITH 9 PER CENT AL
67-09 M17-77576
STUDIES OF CONDENSED-PHASE MICROSPECIMENS AT HIGH TEMPERATURES OBTAINED WITH INTENSE THERMAL PULSES
67-09 M19-77503
TRUE STRAIN RATE COMPRESSION TESTING IN A CAM PLASTOMETER
67-10 M17-78624
INDUSTRIAL TESTS ON THE KO-3 --CR-MN-NI-TI-- STEEL, AND SPECIAL FEATURES OF ITS STRUCTURE
67-10 M17-78928
BEHAVIOR OF MATERIALS FOR CHEMICAL APPARATUS AT HIGHER TEMPERATURES
67-10 M17-79095
X-RAY CRYSTALLOGRAPHIC ANALYSIS AT HIGH TEMPERATURE WITH A GONIOMETER EQUIPPED WITH A COUNTER
67-11 M13-80151
THE ANALYSIS AND ASSESSMENT OF ELEVATED-TEMPERATURE LOWER YIELD OR PROOF STRESS, CREEP, AND STRESS-RUPTURE DATA
67-11 M17-80258
ELEVATED-TEMPERATURE TENSILE, CREEP, AND RUPTURE PROPERTIES OF VARIOUS CARBON STEELS
67-11 M17-80264
A PRELIMINARY SURVEY OF THE ELEVATED-TEMPERATURE TENSILE PROPERTIES OF CAST CARBON STEELS
67-11 M17-80269
SOME CREEP AND RUPTURE PROPERTIES OF A FORGED LOW-

HIGH TEMPERATURE TESTS
ALLOY MN-CR-MO-V STEEL 67-11 M17-80272
CREEP-RUPTURE DATA--TESTING AND APPLICATION FOR STRESS CONCENTRATION DESIGN CRITERIA 67-11 M17-80286
HIGH-TEMPERATURE PROPERTIES OF STEELS 67-11 M17-80288
A RAPID METHOD OF TESTING THE HOT TENSILE STRENGTH OF REFRACTORY ALLOYS 67-11 M17-61056
HIGH-TEMPERATURE METALLOGRAPHY 67-12 M13-83522
INFLUENCE OF TEMPERATURE AND DEFORMATION RATE ON MECHANICAL PROPERTIES OF AMG6 ALUMINUM ALLOY 67-12 M17-81841
A CHAMBER FOR TESTING ROTATING-BEAM-TYPE FATIGUE SPECIMENS IN HOT STEAM AND AIR 67-12 M17-82198
THE EFFECT OF THERMOMECHANICAL TREATMENTS ON THE ELASTIC STORED ENERGY IN TD NICKEL 67-12 M17-82956
ELEVATED-TEMPERATURE TENSILE DUCTILITY MINIMUM IN SILICIDE COATED CB-1W AND CB-10W-2.5ZR 67-12 M17-83047
ELEVATED-TEMPERATURE FATIGUE OF TZC MOLYBDENUM ALLOY UNDER HIGH-FREQUENCY AND HIGH-VACUUM CONDITIONS 67-12 M17-83062
HIGHWAYS
STRUCTURES FOR HIGHWAY, ELECTRICAL, PETROLEUM AND OTHER ENGINEERING APPLICATIONS 67-08 M20-74824
HOBBING
SEE GEAR HOBBING
HOBBING CUTTERS
INVESTIGATION OF R12 STEEL 67-04 M17-67962
HOBS
SEE HOBBING CUTTERS
HOISTING
RECENT DEVELOPMENTS IN STEEL WIRE ROPES FOR HOISTING FROM GREAT DEPTHS 67-09 M20-77823
HOISTS
SEE SKIPS
HOLDING FURNACES
IMPALCO WORKS IN SOUTH WALES HAS 6 MILLION POUNDS UP-TO-DATE LOOK 67-04 M07-66136
HOLE CONDUCTIVITY
SELF-TRANSPORT IN POLYCRYSTALLINE ZN AND PB 67-03 M14-65201
TEMPERATURE AND MAGNETIC FIELD DEPENDENCES OF THE JOSEPHSON CURRENT IN THE JUNCTION WITH A VERY THIN FILM OF TIN 67-03 M16-65643
THE EFFECT OF HYDROSTATIC PRESSURE ON THE TRANSPORT PROPERTIES OF INSB 67-04 M16-67028
INFLUENCE OF AN ELECTRIC FIELD ON THE CAPTURE AND SCATTERING OF HOLES IN BORON-DOPED SILICON 67-06 M15-70515
CONDUCTIVITY AND FIELD EFFECT OF PURE SILICON CLEAVAGE SURFACES 67-06 M16-70993
ELECTRICAL PROPERTIES OF HEAVILY DOPED P-TYPE GERMANIUM CONTAINING BERYLLIUM 67-06 M16-71773
ELECTRIC CONDUCTIVITY STUDIES OF P-GATE POLYCRYSTALS AND SINGLE CRYSTALS IN STRONG ELECTRIC FIELDS 67-08 M16-75218
EXTERNAL PHOTOEFFECT FROM SENSITIZING DYES ADSORBED ON SEMICONDUCTORS 67-08 M16-75236
CERTAIN PROBLEMS IN GROWING EPITAXIAL FILMS OF GERMANIUM BY THE IODIDE SANDWICH METHOD 67-09 M14-76767
MAGNESIUM AS A DONOR IMPURITY IN SILICON 67-10 M15-78447
ADSORPTION STUDIES ON METALS AND ELEMENTAL SEMICONDUCTORS. PT. 12. WATER ON P-TYPE GERMANIUM POWDERS 67-10 M15-79571
TEMPERATURE DEPENDENCE OF STIMULATED EMISSION OF ELECTRON-BEAM-PUMPED CDTE 67-10 M16-79468
FIELD EMISSION FROM P-TYPE GERMANIUM 67-11 M15-80224
STUDY OF ELECTRON LIFETIME IN P-SI 67-11 M15-80622
HOP-CONDUCTION MAGNETORESISTANCE IN P-TYPE GERMANIUM 67-11 M15-81396
SOLUBILITY EFFECTS OF IMPLANTED IONS IN SEMICONDUCTORS 67-11 M16-81204
EFFECTS OF ELECTRON IRRADIATION ON THE THERMAL CONDUCTIVITY OF N-AND P-TYPE GERMANIUM 67-11 M16-81485
PIEZORESISTANCE EFFECT IN P-TYPE PBTE 67-11 M16-81486
ELECTRON PARAMAGNETIC RESONANCE IN ELECTRON-IRRADIATED GERMANIUM 67-12 M16-82536
HOLE CONDUCTIVITY, PRESSURE EFFECTS
INFLUENCE OF UNIAXIAL COMPRESSION ON THE JUMP CONDUCTIVITY IN P-SI 67-06 M16-71925
HOLE DENSITY
DE HAAS-VAN ALPHEN EFFECT IN ANTIMONY AT VERY LOW TEMPERATURES 67-05 M16-69029
X-RAY K ABSORPTION EDGES OF ALLOYS. PT. 2. NICKEL-COBALT AND NICKEL-IRON SOLID SOLUTIONS 67-11 M16-80119
HOLE MOBILITY
ON THE ELECTRICAL PROPERTIES OF THE ZNGEAS2 SEMICONDUCTOR COMPOUND 67-04 M16-67107
ELECTRICAL PROPERTIES OF EPITAXIAL GE FILMS DEPOSITED ON --111-- CAF2 SUBSTRATES 67-05 M16-69212
INFLUENCE OF AN ELECTRIC FIELD ON THE CAPTURE AND SCATTERING OF HOLES IN BORON-DOPED SILICON 67-06 M15-70515
RESISTANCE OF P-INSB IN A STRONG LONGITUDINAL MAGNETIC FIELD 67-10 M15-79473
ELECTROMIGRATION OF HYDROGEN ISOTOPES DISSOLVED IN 67-12 M15-82729
HOLE MOBILITY, SIZE EFFECTS
SOME EFFECTS OF SAMPLE SIZE ON ELECTRICAL TRANSPORT IN BISMUTH 67-10 M15-79417
HOLE TRAPS
PHOTOCONDUCTION AND TRAPPING IN SPUTTERED TANTALUM OXIDE FILMS 67-05 M15-68283
HOLES
RELATION BETWEEN CREEP-ELONGATION AND INTERGRANULAR CAVITIES IN STRESS-RUPTURE TESTING OF A CHROMIUM-NICKEL-MOLYBDENUM STEEL 67-06 M17-70828
HOLES /ELECTRON DEFICIENCIES/
TRAP-DOMINATED ELECTRICAL AND OPTICAL EFFECTS IN CRYSTALLINE BORON 67-01 M15-58415
HIGH FIELD EFFECTS IN N-TYPE INSB 67-04 M16-66774
LIGHT HOLES IN BISMUTH-TIN ALLOYS 67-07 M15-72640
INTERNAL DEFECT PHENOMENA IN TE 67-07 M16-73833
ELECTRONIC EXCITATIONS IN METALS 67-10 M16-78308
HOLMIUM, ALLOYING ADDITIVE
THE EFFECT OF CERTAIN RARE-EARTH SOLUTES UPON THE FCC-BCC TRANSFORMATION TEMPERATURE OF THORIUM 67-01 M14-58532
IRON-COBALT ALLOYS WITH ADDITIONS OF SMALL AMOUNTS OF RARE EARTH ELEMENTS PR, GD OR HO 67-08 M15-75948
HOLMIUM, BINARY SYSTEMS
CRYSTAL STRUCTURE OF THE HOAL3 AND DYAL3 COMPOUNDS 67-02 M13-59674
CONSTITUTION OF BINARY ALLOYS OF GADOLINIUM, DYSPROSIUM, HOLMIUM AND ERBIUM WITH MANGANESE 67-06 M14-71861
HOLMIUM, ELECTRICAL PROPERTIES
HALL EFFECT IN HOLMIUM 67-03 M15-65631
HOLMIUM, INTERMETALLICS
THE CRYSTAL STRUCTURE OF HO4CO3 67-10 M13-79685
HOLMIUM, MAGNETIC PROPERTIES
MAGNETIC STRUCTURES OF HOLMIUM. PT. 1. THE VIRGIN STATE 67-02 M15-60761
MAGNETIC HYSTERESIS OF HOLMIUM METAL AT 4.2 K 67-03 M15-65887
MAGNETIC PROPERTIES OF SOME RARE-EARTH ALLOYS AT HIGH PRESSURES 67-05 M15-69521
MAGNETIC STRUCTURES OF HOLMIUM. PT. 2. THE MAGNETIZATION PROCESS 67-09 M15-77688
FREQUENCY DEPENDENCE OF MAGNETIC LOSSES IN HO IN THE NEIGHBORHOOD OF THE CURIE TEMPERATURE 67-12 M15-82291
HOLMIUM, MASS SPECTROMETERS
MASS SPECTROMETRIC STUDIES AT HIGH TEMPERATURES. PT. 17. SUBLIMATION AND VAPOR PRESSURES OF DY --III--, HO --III-- AND ER --III-- FLUORIDES 67-08 M14-75294
HOLMIUM, MICROSTRUCTURE
HYDRIDE HABIT PLANES AND DEFORMATION PLANES OF HCP METALS 67-11 M13-81274
HOLMIUM, THERMAL PROPERTIES
SPECIFIC HEAT OF GADOLINIUM, TERBIUM, DYSPROSIUM, HOLMIUM, AND THULIUM METALS BETWEEN 3 AND 25 K 67-01 M15-58750
HOLMIUM BASE ALLOYS, MAGNETIC PROPERTIES
MAGNETIC PROPERTIES OF SOME ALLOYS OF THORIUM WITH HOLMIUM AND ERBIUM 67-07 M15-73586
HOLMIUM COMPOUNDS, MAGNETIC PROPERTIES

MAGNETIC STRUCTURES OF TBC2 AND HOC2
67-01 M16-58639

HOMOGENEITY
DISTRIBUTION OF CHEMICAL ELEMENTS IN THE WELD ZONE DURING BUTT WELDING 67-02 M11-60199
PREPARATION OF HOMOGENEOUS HGTE-ZNTE ALLOYS
67-02 M14-61770
CONSUMABLE ELECTROFLUX REMELTING--THE HOPKINS PROCESS. PT. 2 67-03 M04-65472
ISOSTATIC PRESSING OF POWDERED MATERIALS
67-07 M09-73860
SINTERED TYPE 316L STAINLESS--ITS PROPERTIES AND PROCESSING 67-08 M09-74490
APPLICATION OF X-RAY METHODS TO THE STUDY OF THE REAL STRUCTURE OF MONOCRYSTALLINE EPITAXIAL LAYERS 67-08 M16-75239
EFFECTS OF THE MELTING, CASTING AND HEAT TREATMENT TECHNOLOGY THE CHEMICAL HOMOGENEITY OF ALLOYS INVESTIGATED USING ISOTOPES 67-10 M14-79657
HOMOGENEITY OF COPPER ALLOY INGOTS
67-10 M19-78725
INVESTIGATIONS OF THE SURFACE ZONE OF CONTINUOUSLY MELTED INGOTS FROM THE MULTICHAMBER ELECTRON BEAM FURNACE 67-11 M04-80202

HOMOGENEOUS STRUCTURE
PREDICTING THE COURSE OF HOMOGENIZATION IN MULTICOMPONENT ALLOYS 67-12 M14-82849

HOMOGENIZERS
TECHNOLOGICAL PROBLEMS OF THE MAXIMUM UTILIZATION OF HOMOGENIZING INSTALLATIONS IN THE CZECH PEOPLES REPUBLIC 67-10 M04-78648

HOMOGENIZING /METALLURGICAL/
THE HEAT TREATING OF LIGHT METALS
67-01 M10-58012
DIFFUSION IN HETEROGENEOUS SOLIDS AND CALCULATION OF THE CONCENTRATION DISTRIBUTION OF ALLOYS
67-01 M14-57344
IMPROVEMENT OF THE PROPERTIES OF EXTRUDED CONDUCTOR ALUMINUM 67-01 M14-58381
INFLUENCE OF HOMOGENIZING ON PROPERTIES AND STRUCTURE OF COMMERCIAL ALUMINUM INGOTS
67-02 M14-59766
THE INFLUENCE OF HEAT TREATMENT ON THE EXTRUDING BEHAVIOR OF INGOTS OF ALMGSI 0 5
67-02 M17-60873
EFFECT OF COPPER CONTENT AND HOMOGENIZATION HEAT TREATMENT ON BRIGHT ANODIZING OF 1MG AL ALLOY SHEETS 67-03 M12-65040
ON THE HEREDITY OF CAST STRUCTURE DURING HOMOGENIZATION OF ALUMINUM ALLOYS
67-03 M14-65592
SELECTING OPTIMUM HOMOGENIZATION TIME BY THE STRUCTURAL CHARACTERISTICS OF THE CAST ALLOY
67-05 M10-68971
EFFECT OF MANUFACTURING CONDITIONS ON THE UNIFORMITY OF STRUCTURE OF HIGH-MOLYBDENUM HIGH-SPEED STEELS 67-07 M10-72720
RESEARCH INTO HIGH-STRENGTH STEEL CASTINGS
67-07 M10-72991
INFLUENCE OF HOMOGENIZING ON THE STRUCTURE AND PROPERTIES OF TECHNICAL ALUMINUM
67-08 M10-76124
PROCESSING PRECIPITATION HARDENING GRADES
67-10 M10-79760

HONEYCOMB CONSTRUCTION
COMPOSITE MATERIALS--THE BUILDING-BLOCK TECHNOLOGY
67-01 M20-57399
STAINLESS STEEL HELICOPTER BLADES.. THEY GO WHERE THE ACTION IS 67-03 M07-65014
COMPOSITE ROLLING OF STRUCTURAL PANELS
67-05 M11-68444
SPECIAL TOOLS AND FACILITIES CARVE F-111 HONEYCOMB PARTS 67-06 M08-71037
COMPOSITE BULKHEAD FABRICATION DEVELOPMENT
67-06 M11-70006
NEW TECHNIQUES FOR MAKING HIGH TEMPERATURE RESISTANT COMPOSITE MATERIALS
67-07 M09-73364
ADVANCED FIBROUS REINFORCED COMPOSITES
67-07 M09-73369
RECRYSTALLIZATION BEHAVIOR AND BRAZING OF THE TZM MOLYBDENUM ALLOY 67-09 M11-78146
FABRICATION METHODS FOR PBI ADHESIVE BERYLLIUM SANDWICH STRUCTURES 67-10 M11-79436
FLUXLESS BRAZING MAKES HEADWAY 67-11 M11-80766
PRODUCTION OF HONEYCOMB SANDWICH STRUCTURES OF HIGH-STRENGTH STEEL BY BRAZING --ONERA-A. M. D. PROCESS-- 67-11 M11-81055

HONEYCOMB CONSTRUCTION, BRAZING
BRAZING BREAKTHROUGH JOINS REFRACTORY HONEYCOMB
67-06 M11-70569
METALS JOINING 67-09 M11-77091

HONEYCOMB CONSTRUCTION, HEAT TREATMENT
CRYOGENIC QUENCHING 67-07 M10-74225

HONEYCOMB CONSTRUCTION, MACHINING
HONEYCOMB AND PLASTIC--NEW TREND IN MASTER MODELS
67-05 M08-68660

HONEYCOMB CONSTRUCTION, MECHANICAL PROPERTIES
BRAZING ALLOYS AND TECHNIQUES FOR TANTALUM HONEYCOMB STRUCTURES 67-11 M11-80412

HONEYCOMB CONSTRUCTION, NONDESTRUCTIVE TESTING
NONDESTRUCTIVE TESTING OF COMPOSITE STRUCTURES WITH THE SONIC RESONATOR 67-02 M19-60916
DEVELOPMENT OF ULTRASONIC TESTING TECHNIQUES FOR SATURN HONEYCOMB HEAT SHIELDS
67-05 M19-68441

HONEYCOMB CORES
SEE HONEYCOMB CONSTRUCTION

HONEYCOMB PANELS
SEE HONEYCOMB CONSTRUCTION PANELS

HONEYCOMB SANDWICH CONSTRUCTION
SEE HONEYCOMB CONSTRUCTION SANDWICH CONSTRUCTION

HONING
HONE TO SIZE--SUPERFINISH TO SHAPE
67-02 M08-61126
HONING WITH DIAMOND TOOLS 67-03 M08-65714
DIAMOND HONING OF QUENCHED CAST IRON CYLINDER LINERS 67-04 M08-66632
THE USE OF ELECTRODEPOSITED GRINDSTONE FOR HONING
67-04 M08-66663
DIAMONDS IN INDUSTRY 67-04 M08-67495
DRY HONING RESTORES STEEL BLADES
67-05 M12-68470
HONING MAKES A BETTER GEAR 67-06 M08-70689
DIAMOND TOOLS IMPROVE HONING 67-06 M08-70844
NEW HORIZONS FOR DIAMOND HONING
67-07 M08-74219
HONING WITH DIAMOND TOOLS 67-08 M08-74757
ANALYSIS OF PLUNGE-CUT SHORT-STROKE HONING OF CK45. THE EFFECT OF HONING RATES AND LOADS ON THE SURFACE FINISH 67-08 M08-75842
HONING LARGE CYLINDERS 67-08 M08-75944
NEW POSSIBILITIES IN HONING WITH DIAMOND TOOLS
67-09 M08-77020
STUDY ON HONING. PT. 3. DIAMOND HONING OF CAST IRON
67-10 M08-78850
DIAMOND HONING 67-10 M08-79186
HONING WITH DIAMONDS 67-10 M08-79187
HONING AND ITS APPLICATION--A COMPARISON BETWEEN HONING AND GRINDING 67-10 M08-79682
HONING WITH DIAMONDS 67-10 M08-80032
DIAMOND HONING OF ANODIZED ALUMINUM ALLOYS
67-12 M08-81997

HOODS /EXHAUST/
SEE EXHAUST HOODS

HOOKER PROCESS
SEE IMPACT EXTRUSION

HOPKINS PROCESS
SEE ELECTROCLADDING

HOT BLAST
BLAST FURNACE TRIALS WITH A HIGH OXYGEN CONTENT IN THE BLAST 67-05 M04-69084
RAISING THE TEMPERATURE OF THE BLAST BY CONVERTING THE AIR HEATERS TO PAIRED-PARALLEL OPERATION
67-07 M04-73773
THE PROBLEM OF HUMIDIFYING THE HOT BLAST WHEN USING NATURAL GAS 67-08 M04-74574
ELEVATION OF BLAST TEMPERATURE BY CONVERTING HOT-BLAST STOVES TO STAGGERED-PARALLEL OPERATION
67-09 M04-76536
INCREASE OF HOT AIR TEMPERATURE WHEN SMELTING AN UNPREPARED BURDEN WITH ADDITION OF NATURAL GAS AND WATER VAPOR 67-09 M04-77580

HOT BLAST CUPOLAS
AMANDA BLAST FURNACE, ASHLAND WORKS ARMCO STEEL CORPORATION 67-01 M04-57506
THE MELTING OF CAST IRON IN AN ACID-LINED HOT BLAST CUPOLA FURNACE 67-03 M06-65350
THE OPERATION OF A LARGE WATERCOOLED HOT BLAST CUPOLA 67-04 M04-67116
UTILIZATION OF PARTIALLY REDUCED ORE FOR CUPOLA CHARGE 67-04 M04-67556
AN INVESTIGATION ON FACTORIAL ANALYSIS DURING THE HOT BLAST CUPOLA OPERATION 67-04 M04-67557
INVESTIGATING HOT-BLAST STOVES FOR A BLAST FURNACE 2000 M3 IN VOLUME 67-04 M04-67771

HOT BLAST CUPOLAS

HEAVY SECTION DUCTILE IRON AS AFFECTED BY CERTAIN PROCESSING VARIABLES 67-06 M06-70673
COMPARISON OF THE METALLURGICAL POSSIBILITIES OF HOT AND COLD BLAST OPERATION IN THE CUPOLA. PT. 2. RELATIONSHIPS IN REGARD TO OXIDATION LOSS AND PICK-UP BY REDUCTION OF IRON AND ITS COMPANION ELEMENTS 67-07 M04-73249
COMPARISON OF METALLURGICAL FACTORS IN HOT AND COLD BLAST CUPOLAS. PT. 1. IRON TEMPERATURE AND MELTING EFFICIENCY 67-07 M04-73489
UTILIZATION OF PARTIALLY REDUCED ORE FOR CUPOLA CHARGE 67-08 M04-74675
PRACTICAL EXPERIENCES WITH HOT BLAST CUPOLAS 67-10 M04-79239
SILICEOUS ARTEFACTS AS REFRACTORY FOR BLAST HEATERS 67-11 M04-81627

HOT BLAST CUPOLAS, AUTOMATIC CONTROL
PROCESS ANALYSIS OF THE OPERATION OF A TWO-TON HOT BLAST CUPOLA 67-10 M06-79559

HOT BLAST CUPOLAS, DESIGN
DESIGN OF A HOT BLAST CUPOLA PLANT WITH A WET ELECTROSTATIC PRECIPITATOR FOR CLEANING THE STACK GAS 67-07 M04-73242
DESIGN OF HOT BLAST VALVES IWTH SUGGESTED IMPROVEMENTS ON THE PADDLE-TYPE VALVE 67-11 M04-81187

HOT BLAST CUPOLAS, DUST CONTROL
DUST EXTRACTION FROM CUPOLAS BY MEANS OF VENTURI TUBE SCRUBBERS 67-07 M04-73109

HOT BRITTLENESS
SEE BRITTLENESS

HOT CATHODE TUBES
SEE THERMIONIC TUBES

HOT CLADDING
BENDING BIMETALLIC STRIP DURING ROLLING 67-04 M12-66618
MANUFACTURE OF ALUMINUM EVAPORATION COILS FOR REFRIGERATORS USING HOT CLADDING TECHNIQUES 67-07 M07-73037

HOT COINING
SEE COINING
HOT WORKING

HOT COMPACTING
SEE COMPACTING
HOT PRESSING

HOT COMPRESSION
SEE HOT PRESSING

HOT CRACKING
SEE CRACKING /FRACTURING/
FRACTURES

HOT CRACKING /WELDS/
SEE WELD DEFECTS

HOT CUTTING
SEE HOT MACHINING

HOT DEFORMATION
SEE HOT WORKING

HOT DIP ALUMINIZING
SEE ALUMINUM PLATING
HOT DIP COATING

HOT DIP COATING
HOT DIP TINNING PRACTICE 67-02 M12-62299
IMPROVING TINPLATES ALLOY LAYER 67-03 M12-65164
FROM STRIP TO GALVANIZED TUBING IN ONE CONTINUOUS OPERATION 67-04 M12-67766
VINYL DISPERSION COATINGS FOR METALS 67-06 M12-70610
NEW DEVELOPMENTS IN THE METHODS FOR HOT GALVANIZING OF STRIP 67-06 M12-71504
TIN COATING METHODS 67-07 M12-72488
STRUCTURE AND CONSTITUTION OF THE TIN-PLATE ALLOY LAYER 67-07 M12-73326
BALL BLANKET CUTS FUMES AT GALVANIZING PLANT METAL 67-07 M12-73645
DEVELOPMENTS IN PRETREATMENT AND FINISHING OF ZINC-COATED PRODUCTS 67-08 M12-74396
PROGRESS WITH ZINC-COATED STEEL 67-08 M12-74950
EFFECT OF MANUFACTURING CONDITIONS ON THE APPLICABILITY OF ZINC-COATED STEEL WIRE 67-08 M12-75394
HOT DIP TINNING DEVICE 67-09 M12-76835
HEATING ARRANGEMENTS IN A GALVANIZING PLANT 67-09 M12-77642
ACID PICKLING PLANT 67-09 M12-77644
CHEMICAL METHODS OF SURFACE PREPARATION 67-09 M12-77645
THE COMPOSITION AND PROPERTIES OF MOLTEN GALVANIZING FLUXES 67-09 M12-77646
COMPARISON OF GALVANIZED WELDED AND UNWELDED TUBES 67-09 M12-77647
THE SENDZIMIR PROCESS APPLIED TO WIRE GALVANIZING 67-09 M12-77648
EFFECT OF GALVANIZING CONDITIONS ON THICKNESS, STRUCTURE AND PROPERTIES OF GALVANIZED COATINGS 67-09 M12-77649
THE INFLUENCE OF STEEL AND OF GALVANIZING CONDITIONS ON THE PROPERTIES OF GALVANIZED SHEET AND STRIP 67-09 M12-77650
ALLOY FORMATION IN HOT DIP GALVANIZING.. SOME CURRENT EXPERIMENTS 67-09 M12-77653
GALVANIZING BEHAVIOUR OF COMMERCIAL STEEL SHEET MATERIALS 67-09 M12-77654
PROGRESS, PROBLEMS AND POTENTIAL IN HOT DIP GALVANIZING 67-09 M12-77663
GALVANIZED STEEL SHEET.. ITS USE IN ITALY 67-09 M12-77665
PROTECTION OF TUBES IN THE OIL INDUSTRY 67-10 M12-78543
ZINC IN ANTICORROSION COATINGS 67-10 M12-78918
THE HOT-DIP GALVANIZING OF SEMIFINISHED AND FINISHED PRODUCTS 67-10 M12-79399
TINPLATE 67-10 M12-79440
STUDIES ON THICKNESS OF HOT DIPPED ZINC COATING. PT. 2 67-10 M12-79605
HOT DIP GALVANIZING--NEW METHODS FOR AN OLD PROCESS 67-11 M12-80602
NEW POSSIBILITIES IN HOT GALVANIZING WITH SN, PB, CD AND OTHER METALS OF MASS-PRODUCED PARTS 67-11 M12-81031
NEW APPLICATIONS OF HOT GALVANIZED STEEL SHEET 67-11 M20-80299
TINNING OF COPPER WIRE 67-12 M12-82653
INTRODUCTION OF A UNIT FOR CONTINUOUS GALVANIZING OF TUBES 67-12 M12-83477
CORROSION RESISTANCE OF CERTAIN METALLIC MATERIALS IN MOLTEN ALUMINUM 67-12 M18-82269

HOT DIP COATING, ALLOYING EFFECTS
HOT DIP GALVANIZING WITH LESS COMMON BATH ADDITIONS 67-09 M12-77655

HOT DIP COATING, CORROSION
CORROSION RESISTANCE OF SOME METALS IN MOLTEN ALUMINUM 67-05 M18-69836

HOT DIP COATINGS, ALLOYING EFFECTS
THE EFFECTS OF SILICON ADDITIONS TO THE BATH IN GALVANIZING WITH SHORT DIPPING TIMES 67-09 M12-77652

HOT DIP COATINGS, CORROSION
THE CASE FOR GALVANIZED BRIDGES 67-09 M18-77666

HOT DIP COATINGS, MICROSTRUCTURE
EFFECT OF ALLOYING ELEMENTS ON THE PROPERTIES OF HOT DIP GALVANIZED COATINGS 67-09 M12-77651

HOT DIP COATINGS, SERVICE TIME
A CONSUMER REPORT ON THE PERFORMANCE OF GALVANIZED STRUCTURAL STEEL 67-09 M12-77664

HOT DIP COATINGS, THICKNESS
COMPARISON OF VARIOUS METHODS FOR DETERMINING THE THICKNESS OF GALVANIZED COATINGS, OF THE IRON-ZINC ALLOY LAYERS AND OF THE PURE ZINC LAYER 67-09 M19-77656

HOT DIP GALVANIZING
SEE GALVANIZING
HOT DIP COATING

HOT DIP PAINTING
LANDROVER CHASSIS DIPPING PLANT 67-02 M12-60929

HOT DIP TINNING
SEE HOT DIP COATING
TIN PLATING

HOT DIPPING
THE ACTION OF FLUXES THAT ASSIST TINNING AND SOLDERING 67-04 M11-67761

HOT DRAWING
HOT DEEP DRAWING--B&P EXPERIENCE 67-03 M07-65036
LOCKHEED REFINES TITANIUM FORMING 67-03 M07-65408
CHANGE IN THE PROPERTIES AND STRUCTURE OF PIPES DURING DRAWING AFTER INDUCTION HEATING 67-06 M07-70911
FORMING TITANIUM 67-06 M07-71584

HOT DRAWING, STRESS EFFECTS
EXPERIMENTAL DETERMINATION OF FORCES IN A THREE-LINE TUBE MILL 67-04 M07-66977

HOT DUCTILITY
SEE DUCTILITY

HOT EXTRACTION

SEE EXTRACTION
HOT EXTRUSION
SEE EXTRUSION
HOT WORKING
HOT FINISHING
SEE HOT WORKING
METAL FORMING
HOT FORGING
SEE FORGING
HOT WORKING
HOT FORMING
SEE HOT WORKING
HOT FRACTURES
SEE FRACTURES
HOT HARDNESS
SEE HARDNESS
HOT HEADING
SEE HEADING
HOT WORKING
HOT MACHINING
MACHINING OF HIGH STRENGTH MATERIALS AT ELEVATED TEMPERATURES USING ELECTRIC CURRENT HEATING 67-03 M08-65990
FABRICATION OF CHROMIUM-BASE ALLOYS 67-08 M01-74515
HOT PIERCING
THREE ROLL PIERCER MAKES DIRECT ROLLING OF CONTINUOUSLY CAST BILLET POSSIBLE 67-05 M07-69594
THREE-ROLL PIERCING IN TUBE MAKING 67-06 M07-72183
MANUFACTURE OF SEAMLESS TUBES IN A MODERN TUBE PUSH BENCH 67-07 M07-72909
CHOOSING LUBRICANTS FOR HOT PIERCING OF ROUND BILLETS 67-07 M07-73787
THE PRODUCTION OF CLAD HOLLOW BODIES BY HOT EXTRUSION 67-08 M07-75108
HOT PIERCING TUBES BY A THREE-ROLL TECHNIQUE 67-08 M07-75562
MANUFACTURING THICK-WALLED LARGE-DIAMETER TUBES OF OKH18N12T STAINLESS STEEL 67-09 M07-76410
LUBRICANTS FOR HOT BROACHING OF ROUND BILLETS 67-09 M07-76550
HOT PRESS CLADDING
SEE HOT CLADDING
HOT PRESSING
NK HP-1, STEEL PLATE FOR HOT PRESSING 67-01 M08-58565
FRICTION POWDER FOR CLUTCH PLATES IN COMPUTERS 67-01 M09-57137
HOT-PRESSING OF URANIUM DIOXIDE 67-02 M09-59055
INVESTIGATION OF COMPACTIBILITY OF HOT PRESSED MGO WITH VARIOUS ADDITIONS 67-02 M09-60177
SOME CHARACTERISTICS IN BEHAVIOR OF PURE OXIDES DURING PRESSING 67-02 M09-60596
HOT-PRESSED TRANSLUCENT OXIDES 67-02 M09-60710
USE OF THE METHOD OF DYNAMIC HOT PRESSING IN POWDER METALLURGY PRODUCTION 67-02 M09-61704
THE PREPARATION AND INVESTIGATION OF SOME TITANIUM NITRIDE-MOLYBDENUM CERMETS 67-02 M09-62106
INVESTIGATION OF EQUATIONS OF POROUS MATERIAL COMPACTION 67-02 M09-62176
PREPARATION OF NONPOROUS MATERIAL FROM CAST IRON TURNINGS BY THE METHOD OF DYNAMIC HOT PRESSING 67-02 M09-62207
OXIDATION-RESISTANT GRAPHITE-BASE COMPOSITES 67-02 M17-60714
PROPERTIES OF ALUMINUM ALLOY CASTINGS PRODUCED BY PRESSING OF LIQUID CASTINGS 67-02 M17-61812
INVESTIGATION OF THE STRUCTURE OF MG-3 PER CENT ND ALLOY, SUBJECTED TO HIGH-TEMPERATURE PLASTIC DEFORMATION 67-02 M17-62084
HIGH-PRESSURE, HIGH-TEMPERATURE CERAMIC STRUCTURES 67-03 M17-65344
MANUFACTURE OF CUTTING TOOLS FROM HIGH-SPEED STEEL CHIPS 67-04 M07-66956
HOT BRASS PRESSING 67-04 M08-66713
HOT DYNAMIC PRESSING OF METAL POWDERS AND CHIPS 67-04 M09-66957
FACTORS AFFECTING THE COMPACTION OF IRON POWDER AND ITS MECHANICAL PROPERTIES 67-04 M09-66958
HOT PRESSING TECHNIQUES AS APPLIED IN THE MANUFACTURE OF TUNGSTEN CARBIDE-BASE HARD-ALLOY ARTICLES 67-04 M09-67154
GRAIN BOUNDARY MIGRATION IN HOT-PRESSED TANTALUM CARBIDE 67-04 M19-67273
POROUS METALS FILTER LIQUIDS, CUT NOISE, DAMPEN VIBRATION 67-05 M01-68428
PACKING AT HOT PRESSING OF MAGNESIUM OXIDE OBTAINED BY DISSOCIATION OF CERTAIN COMPOUNDS 67-07 M05-72611
ROASTING BORON NITRIDE DURING HOT PRESSING AND ITS PROPERTIES AT HIGH TEMPERATURE 67-07 M05-72617
ON SOME PROPERTIES AND THE CONDITIONS FOR HOT PRESSWORKING STAINLESS HEAT PROOF STEEL 67-07 M07-73792
THE USE OF BLENDING PROCEDURES AND OF NICKEL ADDITONS IN THE COMPACTION OF AN ACICULAR ELECTROWON TUNGSTEN POWDER 67-07 M09-73404
HOT PRESSING OF ALUMINA--A NEW TREATMENT OF FINAL DENSIFICATION 67-07 M09-73623
INVESTIGATION OF ZIRCONIUM ANHYDRIDE PACKING DURING HOT PRESSING 67-08 M09-74305
APPLICATION OF DYNAMIC HOT PRESSING IN POWDER METALLURGY 67-08 M09-75849
INVESTIGATION OF THE EQUATIONS OF COMPACTION OF POROUS MATERIALS 67-08 M09-75952
HIGH-STRENGTH STEEL FOR MOLDS AND DIES 67-08 M17-74970
SOME PROPERTIES OF STAINLESS HEAT-RESISTANT STEEL AND HEAT-TREATMENT CONDITIONS FOR IT 67-09 M07-76555
DENSIFICATION DURING THE HOT PRESSING OF MAGNESIUM OXIDE WITH ADDITIONS 67-09 M09-76910
HOT EXTRUSION OF METAL POWDERS 67-09 M09-77056
HOT PRESSING OF BERYLLIA AND ZIRCONIA 67-09 M09-77474
HOT PRESS CERAMICS FOR HIGH STRENGTH, PRECISION 67-10 M05-78902
FABRICATION OF DENSE UO2 BY HOT PRESSING AND COEXTRUSION 67-10 M09-78473
EFFECT OF LIF ON HOT-PRESSING OF MGO 67-10 M09-79432
MICROSTRUCTURE AND MECHANICAL PROPERTIES OF PRESSED TSM2A ALLOY 67-11 M17-80992
DEFORMATION THEORY OF HOT PRESSING 67-11 M17-81090
EFFECT OF ACTIVITY OF ZRO2 ON ITS DENSIFICATION DURING HOT PRESSING 67-12 M05-81740
PRESSING OF MOLYBDENUM TUBES 67-12 M08-81798
THERMOEMISSIVITY OF ALLOYS OF W-LA2O3 SYSTEM 67-12 M09-81992
COMPACTING SHKH15 SWARF BY DYNAMIC HOT PRESSING 67-12 M09-82478
PRODUCING INTRICATE SHAPES BY HOT PRESSING ALUMINUM OXIDE 67-12 M09-82640
HOT PRESSING, IMPURITY EFFECTS
ACTIVATED SINTERING IN BERYLLIUM POWDERS BY SELECTIVE ADDITION OF TRACE ELEMENTS 67-07 M09-73758
HOT PRESSING, POWDER METALLURGY
LOW-TEMPERATURE HOT PRESSING OF POWDERED-METAL COPPER 67-08 M09-74920
HOT QUENCHING
SEE AUSTEMPERING
HOT REDUCTION
SEE HOT WORKING
REDUCTION /METAL WORKING/
HOT RETORT FURNACES
SEE RETORT FURNACES
HOT ROLLING
SEE ALSO AUSROLLING
PACK ROLLING
PLUG ROLLING
SANDWICH ROLLING
ALUMINUM WORKS MODERNIZATION 67-01 M01-58529
JONES AND LAUGHLIN STEEL CORPORATIONS ALIQUIPPA WORKS 67-01 M04-58503
ON THE PRODUCT OF PLATE MILL AT WAKAYAMA STEEL WORKS 67-01 M07-58244
SEVERAL EXPERIMENTS ON FOUR-HIGH PLATE MILL 67-01 M07-58245
DISCREPANCY IN THICKNESS OF TWO-LAYERED SHEET 67-01 M07-58287
INLANDS 80-IN. HOT STRIP MILL 67-01 M07-58493
BILLET MILL AND WIRE ROD MILL AT THE APPLEBY-FRODINGHAM STEEL COMPANY, SCUNTHROPE, ENGLAND 67-01 M07-58577
HOT ROLLING TEXTURE OF LOW-CARBON STEEL 67-01 M13-58238
ROLLING TWO-LAYER INGOTS OF L53-KH6F1 STEELS ON A BLOOMING MILL 67-02 M07-58877
WARM ROLLING OF IRON-ALUMINIUM ALLOYS 67-02 M07-59883
INFLUENCE OF METALLURGICAL FACTORS ON HOT STRIP

MILL DESIGN 67-02 M07-60238
METHOD FOR MAKING BIDIRECTIONAL IRON-ALUMINIUM ALLOY MAGNETIC SHEET 67-02 M07-60949
ROLLING ROUND SHAPES IN TITANIUM ALLOYS 67-02 M07-61285
WALL THICKNESS VARIATION OF TUBE AND ROLLING TORQUE IN STRETCH REDUCING MILL STEEL TUBE WORKS 67-02 M08-58847
THE EFFECT OF TEMPERATURE AND DEGREE OF WORKING ON THE STRUCTURE OF HOT ROLLED AND EXTRUDED ALUMINUM 67-02 M13-59127
NEW TECHNIQUES IN METAL FORMING 67-03 M07-65166
BASIC PRINCIPLES OF STEEL HEAT TREATMENT. PT. 6. CARBON STRUCTURAL STEELS 67-03 M07-65180
JONES & LAUGHLINS HIGH-SPEED 80-IN. HOT STRIP MILL 67-03 M07-65920
THE EFFECTS OF ROLLING TEMPERATURE ON THE MECHANICAL PROPERTIES AND MICROSTRUCTURES OF MILD STEELS 67-03 M17-65837
EXPERIMENTAL USE OF AUTOMATIC REGULATION OF STRIP THICKNESS ON THE CONTINUOUS 2500 THIN PLATE MILL 67-04 M07-66212
MANUFACTURE OF SEAMLESS TUBES IN A MODERN TUBE PUSH BENCH INSTALLATION 67-04 M07-66326
THE SLIP LINE FIELD IN ROLLING OF THICK STRIP 67-04 M07-67610
FABRICATION AND EVALUATION OF LARGE THIN-GAGE BERYLLIUM SHEET FROM CAST INGOTS 67-04 M07-67885
MARTENSITIC TRANSFORMATION IN 1KH15N9S3B STEEL DURING DEFORMATION 67-04 M07-67978
CHANGES IN TEXTURE OF HOT ROLLED STRIP OF LOW-CARBON STEEL 67-04 M14-67513
TEXTURE OF HOT ROLLED BAND OF SILICON IRON 67-05 M07-68473
ON THE IMPORTANCE OF THE PASS SEQUENCE IN THE AUTOMATION OF A BLOOMING MILL 67-05 M07-68540
A NEW TUBE-PIERCING TECHNIQUE 67-05 M07-68633
THREE-ROLL PIERCER IMPROVES TUBE QUALITY 67-05 M07-68935
TEMPERATURE RANGE FOR HOT ROLLING ZN BILLETS INTENDED FOR PROCESSING IN COILS 67-05 M07-68979
THREE-ROLL PIERCER DEVELOPED BY TI 67-05 M07-69435
TUBE INVESTMENTS LTD. THREE-ROLL PIERCER PROVES DESIGN AFTER EXTENSIVE TESTING 67-05 M07-69487
IMPROVING THE ROLLING TECHNOLOGY AND THE CONSTRUCTION OF PLUG MILLS ON INSTALLATIONS WITH AN AUTOMATIC MILL 67-05 M07-69693
THREE-ROLL PIERCING--BETTER TUBE 67-05 M08-68443
DEVELOPING A TECHNOLOGY FOR PRODUCING HIGH-STRENGTH RAILROAD RAILS 67-05 M08-68554
NEW TUBEMAKING TECHNIQUE--UK WORLD LEAD 67-06 M07-70021
DEVELOPMENT AND PRINCIPLE OF THE KRUPP/PLATZER PLANETARY ROLLING MILL 67-06 M07-70029
APPARATUS FOR TUBE ROLLING 67-06 M07-70149
HOT SHEET-ROLLING MILL UNDER COMPUTER CONTROL 67-06 M07-70249
EXPANSION AND DEFORMATION EFFICIENCY WHEN ROLLING IN DRAWING PASSES 67-06 M07-70279
DETERMINING ABSOLUTE STRAINS IN MANDREL-FREE DRAWING OF TUBES 67-06 M07-70283
AUTOMATION OF THE DUO-800 MILL FOR HOT ROLLING NONFERROUS METALS ON CONTACTLESS CONTROL DEVICES 67-06 M07-70737
CALCULATION METHOD FOR HOT ROLLING OF STEEL SHEET AND STRIP 67-06 M07-70809
DETERMINATION OF STRESSES DURING HOT ROLLING OF CARBON STEELS 67-06 M07-70942
IMPROVING THE OPERATION OF SLAB MILL VERTICAL STANDS 67-06 M07-71254
THE PRODUCTION OF WIDE STRIP FROM STEELS OF LOW CARBON CONTENT 67-06 M07-71704
THREE-ROLL PIERCING IN TUBE MAKING 67-06 M07-72183
A NEW DIGITAL WIDTH GAGE FOR THE METALS INDUSTRY 67-06 M19-71001
AN IMPROVED TECHNOLOGY FOR HOT ROLLING OF COPPER-ZINC ALLOYS 67-07 M07-72784
A 210 MM MILL FOR ROLLING UNDER VACUUM 67-07 M07-73003
MANUFACTURE OF ALUMINUM EVAPORATION COILS FOR REFRIGERATORS USING HOT CLADDING TECHNIQUES 67-07 M07-73037
EXAMPLES FOR THE APPLICATION OF A METHOD OF CALCULATION OF ROLLING CHARACTERISTICS 67-07 M07-73226
FIRST KRUPP/PLATZER PLANETARY ROLLING MILL IN OPERATION 67-07 M07-73330
A MODERN WIDE-FLANGE BEAM MILL 67-07 M07-73331
PRODUCING RAILS FROM CONTINUOUS CAST SLABS 67-07 M07-73783
PRODUCTION OF A LIGHTENED NO. 60 H-BEAM 67-07 M07-73784
EFFECT OF THE GEOMETRIC FORM OF THE OBLIQUE-POSITIONED PASS ON STRIP STABILITY DURING ROLLING 67-07 M07-73786
PRODUCTION OF FINNED TUBES BY ROLLING 67-07 M07-74002
PROPERTIES OF COMPACT BILLETS ROLLED ON THREE-HIGH STANDS FOR FURTHER TRANSVERSE-HELICAL ROLLING INTO ROUND PERIODIC SECTIONS 67-07 M07-74076
PRODUCTION OF GRADE EI711 STEEL TUBES 67-07 M07-74080
THREE ROLLS IMPROVE QUALITY AND LOWER COST OF SEAMLESS TUBING 67-07 M07-74092
ROLLING MILL AT FUSINA 67-07 M07-74262
DEVELOPING A TECHNOLOGY FOR PRODUCING HIGH-TENSILE STEEL RAILWAY RAILS 67-07 M08-72465
THE PRODUCTION AND PROPERTIES OF DUCTILE COBALT STRIP 67-07 M09-73826
COMMERCIAL PRODUCTION OF PROFILES OF 40 STEEL WITH AUSROLLING 67-07 M10-73788
STUDIES ON THE MECHANICAL PROPERTIES OF HOT ROLLED BERYLLIUM AT ELEVATED TEMPERATURES 67-07 M17-72983
PLASTIC PROPERTIES OF THIN SHEET MOLYBDENUM AT VARIOUS DEFORMATION RATES 67-07 M17-73952
THE KROSS ROLE PROCESS 67-08 M07-74361
DEVELOPMENT OF SURFACE DEFECTS DURING THE HOT ROLLING OF 5.5 MM STEEL WIRE RODS AND THEIR EFFECT ON WIRE PROCESSING 67-08 M07-75073
THE SEIZING AND PASSING OF INGOTS THROUGH THE ROLLS IN ROLLING ON REVERSING MILLS 67-08 M07-75588
THE FABRICATION OF SILVER AND SILVER-BASE ALLOYS 67-08 M07-75628
ALUMINUM HOT ROLLING LINE HAS ALL-STATIC POWER SUPPLIES 67-08 M07-75702
IMPROVING OPERATING CONDITIONS OF VERTICAL STANDS IN SLABBING MILLS 67-08 M07-75723
INVESTIGATION OF THE DEFORMATION PROCESSES OF HOT CALIBER ROLLING OF STEEL USING PLASTICINE AS A MODEL MATERIAL 67-08 M07-75770
ROLLING OF REFRACTORY METALS IN INERT CONTROLLED ATMOSPHERE 67-08 M07-76246
DOUBLE ROLLING OF AUSTENITIC STAINLESS TUBES ON KHPT MILLS 67-08 M07-76279
TEMPERATURE AND SPEED FACTORS DURING HOT ROLLING OF METAL POWDERS 67-08 M09-74900
THE DEFORMATION BEHAVIOR OF CR-NI STEELS 67-08 M17-74446
TENSION TESTS OF REINFORCING STEELS AT GRADUAL TEMPERATURE 67-08 M17-74622
FURTHER DEVELOPMENT OF THE EKELUND EQUATION FOR DEFORMATION RESISTANCE. PT. 1. 67-08 M17-75109
PRODUCTION OF ALUMINIUM-KILLED STEEL SHAPES FOR LOW TEMPERATURE SERVICES--NK-LTC 67-09 M04-77336
INLAND STEELS COMPUTERIZED STRIP MILL AND COIL CONVEYOR 67-09 M07-76472
RAILS ROLLED FROM CONTINUOUSLY CAST SLABS 67-09 M07-76546
MANUFACTURING LIGHTENED I-BEAMS 67-09 M07-76547
INFLUENCE OF GEOMETRY OF DIAGONAL ROLL PASS ON STEADINESS OF STRIP IN WORK 67-09 M07-76549
CALCULATION OF THE RESISTANCE TO DEFORMATION DURING HOT WORKING 67-09 M07-76693
CAUSES OF BROKEN EDGES IN HOT STRIP ROLLING 67-09 M07-76714
ROLLING OF BIMETALLIC STEEL/COPPER PIPES IN CONTINUOUS PIPE AND TUBE MILLS 67-09 M07-76862
DETERMINATION OF THE COEFFICIENT OF HEAT TRANSMISSION FROM METAL TO ROLLS DURING HOT ROLLING OF STEEL 67-09 M07-76992
POSSIBILITY OF SIMULATION OF HOT STRIP MILL PRACTICE OF STEEL BY COUNTER-BLOW FORGING 67-09 M07-77258
UNALLOYED TUNGSTEN--ARC-CAST MATERIAL 67-09 M07-77326

QUALITY OF ROLLED STOCK FROM CONTINUOUSLY CAST FLAT INGOTS 67-09 M07-77631
SHEET ROLLING IN EP487 ALLOY 67-09 M07-77633
INVESTIGATION OF ROLLED PRODUCTS FROM CONTINUOUSLY CAST RECTANGULAR BILLETS 67-09 M07-77634
THE THREE-ROLL DRILLING MACHINE BY TUBES, LTD., GREAT BRITAIN 67-09 M07-78299
UNALLOYED TUNGSTEN.. POWDER-METALLURGY MATERIAL 67-09 M09-77325
INDUSTRIAL PRODUCTION OF ROLLED SECTIONS OF 40 STEEL WITH THERMOMECHANICAL TREATMENT 67-09 M10-76551
MOLYBDENUM ALLOYS 67-09 M17-77324
MANUFACTURE OF STEEL FOR SAFETY RAZORS 67-10 M04-79854
ROLLING OF STAINLESS STEELS SUSCEPTIBLE TO INCREASED WIDENING 67-10 M07-78432
OPTIMIZATION OF THE ROLLING PRACTICE IN REVERSING BLOOMING-SLABBING MILL TRAINS OPERATING IN THE RANGE OF ARMATURE VOLTAGE 67-10 M07-78696
INFLUENCE OF RIGIDITY OF WORKING STAND ON NON-UNIFORMITY IN LONGITUDINAL THICKNESS OF STRIP 67-10 M07-79270
TWO-STAGE ROLLING ON COLD-ROLLING MILLS OF AUSTENITIC STAINLESS STEEL TUBES 67-10 M07-79272
INVESTIGATION OF THE EFFECT OF TEMPERATURE ON BITE AND PASSING IN THE ROLL GAP DURING HOT 67-10 M07-79391
EFFECT OF THE DEFORMATION ON THE CROSS-SECTIONAL THICKNESS TOLERANCE OF MILD STEEL STRIP 67-10 M07-79813
HOT ROLLING OF CHROMIUM 2H17 STEEL WITH HEAVY REDUCTIONS 67-10 M07-79865
NASSAUS PROCESS FOR CONTINUOUS CASTING AND ROLLING OF COPPER ROD 67-10 M20-78581
HOT ROLLING OF LEAD CONTAINING BRASSES 67-11 M07-80370
DEVELOPMENT OF A TECHNOLOGY FOR ROLLING INGOTS IN KH23N18 STEEL 67-11 M07-80859
TECHNOLOGICAL PROPERTIES OF HEAT RESISTANT EP150 TUBE STEEL 67-11 M07-80864
QUALITY OF ROLLED PRODUCT PRODUCED FROM CONTINUOUSLY CAST SLABS 67-11 M07-80919
ROLLING SHEETS OF EP 487 ALLOY 67-11 M07-80921
ROLLING CONTINUOUSLY CAST RECTANGULAR STEEL BILLETS 67-11 M07-80922
SPECIFIC PRESSURE WHEN ROLLING BIMETALS BY THE PILE METHOD 67-11 M07-81654
DETERMINING CROSSWISE THICKNESS VARIATION OF SHEETS WHEN ROLLING ON FOUR-HIGH WALLS 67-12 M07-81713
HOT ROLLING OF LARGE STRIPS. ASPECTS RELATED TO THE QUALITY OF THE FINISHED PRODUCTS 67-12 M07-82385
HOT ROLLING OF STEEL PRODUCTS FOR THE AUTOMOBILE INDUSTRY, WITH HIGH QUALITY AND DIMENSIONAL TOLERANCE 67-12 M07-82387
EFFECT OF THE ROLL TEMPERATURE ON THE SPECIFIC PRESSURE DURING ROLLING OF IRON-ALUMINIUM ALLOYS 67-12 M07-82409
HOT ROLLING OF U AND U-AL ALLOYS 67-12 M07-82812
INVESTIGATION OF THE EFFECT OF THE ROLLING SPEED ON THE PRESSURE DURING HEATED ROLLING OF IRON-ALUMINUM ALLOYS 67-12 M07-83335
ROLLING STAINLESS STEELS LIABLE TO INCREASED SPREAD 67-12 M07-83430
STUDY OF THE STRUCTURE AND PROPERTIES OF ROLLS AFTER VACUUM HOT ROLLING OF MOLYBDENUM 67-12 M07-83538
160-IN. PLATE MILL--DESIGN AND PERFORMANCE 67-12 M07-83592
THE EFFECT OF HOT ROLLING VARIABLES ON THE FRACTURE TOUGHNESS OF 18NI MARAGING STEEL 67-12 M17-83059
MANUFACTURE OF PLATE FUEL ELEMENTS FOR RESEARCH REACTORS 67-12 M20-82810

HOT ROLLING, AUTOMATION
AUTOMATIC GAGE CONTROL --AGC-- OF HOT STRIP MILL AT SAKAI STEEL WORKS 67-02 M07-58939
COMPUTER ROLLS HOT SHEETS 67-02 M07-59002
DESIGN AND OPERATION OF AUTOMATIC GAGE CONTROL ON A 68-IN. HOT STRIP MILL 67-02 M07-60236
BETHLEHEMS BURNS HARBOR HOT STRIP MILL IS IN PRODUCTION 67-03 M07-65926
COMPUTERIZED HOT MILL SWELLS U. S. STEEL SHEET PRODUCTION 67-04 M07-66400
REVERSING HOT MILLS AND THEIR AUXILIARIES 67-05 M07-69176
CONTINUOUS HOT MILLS 67-05 M07-69177
SPECIAL MILLS 67-05 M07-69180

HOT ROLLING, HOT WORKING
SEAMY DEFECTS IN HOT STRIP FROM CAPPED STEEL 67-06 M07-72277

HOT ROLLING, QUALITY CONTROL
CONTROL OF PRODUCT QUALITY IN THE WROUGHT ALUMINUM INDUSTRY 67-07 M19-74009

HOT ROLLING, ROLLING
RHEOLOGICAL PROPERTIES OF STEEL AND LEAD 67-08 M07-75879

HOT ROLLING, STRESSES
SOLUTIONS OF PROBLEMS OF SPECIFIC PRESSURE DURING COLD ROLLING OF PIPES 67-06 M07-71870

HOT ROLLING MILLS
SEE ALSO BILLET MILLS
BLOOMING MILLS
HOT ROUGHING MILLS
HOT STRIP MILLS
PLANETARY MILLS
ROD MILLS /ROLLING/
SLAB MILLS
SLAB CASTING--CAUTION GIVES WAY TO ACTION 67-05 M04-68809
REPUBLICS NEW PLATE MILL AT GADSDEN 67-06 M07-71005
IMPALCOS 6 MILLION POUND MODERNIZATION SCHEME AT WAUNARLWYDD 67-06 M20-71299
REPUBLIC STEELS NEW PLATE MILL AT GADSDEN 67-07 M07-72775
WIDE PLANETARY MILL FOR STAINLESS STEEL 67-12 M07-82931

HOT ROLLING MILLS, AUTOMATION
THEORETICAL ASPECTS OF HOT MILL AUTOMATION 67-05 M07-69178

HOT ROUGHING
SEE HOT ROLLING

HOT ROUGHING MILLS, AUTOMATION
MEDIUM SECTION MILL AT LANCASHIRE STEEL MANUFACTURING COMPANY, LIMITED 67-08 M07-74657

HOT SHAPING
SEE HOT WORKING

HOT SHORTNESS
SEE BRITTLENESS

HOT STAGE MICROSCOPY
THE ION EMISSION MICROSCOPE 67-01 M13-57167
HOT STAGE MICROSCOPE STUDY OF STRUCTURAL EVOLUTION OF SINTERS OF CARBONYL IRON DURING HEAT TREATMENT 67-01 M14-57170
INVESTIGATION OF THE RECRYSTALLIZATION OF STEEL DURING VACUUM HEATING 67-02 M14-58831
STUDY OF CERAMIC MATERIAL BY HIGH-TEMPERATURE X-RAY ANALYSIS 67-03 M19-65443
A VACUUM HOT STAGE STRAINING MICROSCOPE DESIGNED FOR DEFORMATION AND ENVIRONMENTAL STUDIES UP TO 1000 C 67-04 M13-66247
OXIDE GROWTH IN AN AL-AL2O3 SAP-TYPE ALLOY BY HOT STAGE TRANSMISSION ELECTRON MICROSCOPY 67-04 M14-66058
KINETICS OF GROWTH OF AUSTENITE GRAINS IN 30KHGT STEEL 67-04 M14-67448
THERMAL ETCHING OF BETA ALLOY OF THE TI-MO-FE-AL SYSTEM 67-06 M13-69989
STUDY OF THE FORMATION OF WIDMANSTATTEN STRUCTURE IN IRON 67-06 M14-69978
THE USE OF HIGH-TEMPERATURE MICROSCOPY TO INVESTIGATE THE DECAY OF CEMENTITE IN MALLEABLE CAST IRON ALLOYS 67-09 M14-77105
WORK WITH THE HIGH-TEMPERATURE MICROSCOPE 67-12 M13-83397

HOT STAMPING
STAMPING OF WRIST WATCH CASINGS 67-07 M07-73441
INVESTIGATION OF THE CAUSES OF FAILURE AND METHODS FOR IMPROVING THE STABILITY OF HOT STAMPING DIES 67-12 M17-81797

HOT STRENGTH
SEE TENSILE STRENGTH

HOT STRETCH FORMING
SEE STRETCH FORMING

HOT STRIP MILLS
SEE ALSO PLANETARY MILLS
INLANDS 80-IN. HOT STRIP MILL 67-01 M07-58493
JONES & LAUGHLINS HIGH-SPEED 80-IN. HOT STRIP MILL 67-03 M07-65920
WHEELINGS NEW 80-IN. HOT STRIP MILL 67-09 M07-77146

HOT STRIP MILLS, AUTOMATION
BETHLEHEMS BURNS HARBOR HOT STRIP MILL IS IN PRODUCTION 67-03 M07-65926
COMPUTERIZED HOT MILL SWELLS U. S. STEEL SHEET PRODUCTION 67-04 M07-66400
CONTINUOUS HOT MILLS 67-05 M07-69177
HOT STRIP MILLS, TEMPERATURE MEASURING INSTRUMENTS
HOT STRIP MILL WORK ROLL TEMPERATURE DURING ROLLING 67-05 M07-69710

HOT SWAGING
SEE HOT WORKING
SWAGING
HOT TEARING
SEE TEARING
HOT TENSILE STRENGTH
SEE TENSILE STRENGTH
HOT TINNING
SEE HOT DIP COATING
TIN PLATING
HOT TOPPED MOLDS
SEE HOT TOPS
HOT TOPPING
FOUNDRY SET FOR CASTING METAL, PARTICULARLY STEEL INGOTS, BLOCKS, ETC 67-01 M04-57998
ISOTHERMAL MIXTURES FOR HEATING HOT TOPS 67-01 M04-58039
USE OF MIXTURES TO PROMOTE BOILING IN CASTING 67-02 M04-59534
STEEL SOLIDIFICATION AND INGOT STRUCTURE 67-02 M04-60284
ELECTRICAL MODELING OF THE FORMATION OF A PIPE IN A STEEL INGOT 67-02 M04-61742
CASTING HIGH-ALLOY STEEL UNDER A LAYER OF LIQUID SYNTHETIC SLAG 67-02 M04-62141
QUALITY OF MECHANICALLY CAPPED STEELS 67-04 M04-66018
AN EVALUATION OF EXOTHERMIC HOT TOPS 67-05 M04-69065
HEATING THE FEEDER HEADS OF ALLOY STEEL INGOTS BY EXOTHERMIC SLEEVES 67-05 M04-69683
THE PROBLEM OF PRODUCING MECHANICALLY HOT TOPPED STEEL 67-05 M04-69896
IMPROVED CAPPING OF RIMMING STEEL WITH ALUMINUM 67-06 M04-70908
IMPROVING THE QUALITY OF INGOT SURFACES BY TREATING THE METAL IN MOLDS WITH GRAPHITE 67-06 M04-71249
TEMPERATURE CONDITIONS OF FORMATION OF THE TOP PARTS OF KILLED STEEL INGOTS 67-07 M04-73020
EXOTHERMIC SLEEVES FOR CONSERVING HEAT IN THE FEEDER HEADS OF ALLOY STEEL INGOTS 67-07 M04-74069
ASBESTITE USED FOR CONSERVATION OF HEAT IN INGOT TOPS 67-07 M04-74136
INCREASING THE YIELD OF KILLED INGOT STEEL BY USING ISOTHERMAL HOT STOPS 67-08 M04-74351
IMPROVING INGOT SURFACES BY TREATING METAL WITH GRAPHITE IN THE INGOT MOULD 67-08 M04-75718
CASTING INGOTS INTO CAPPED MOLDS AND SATISFACTORY OUTPUT IN ROLLING 67-09 M04-76715
EXOTHERMIC MIXTURE FOR TEEMING STEEL 67-09 M04-76829
STUDY OF THE AMOUNT AND SPREAD OF NONMETALLIC INCLUSIONS IN MECHANICALLY AND CHEMICALLY CAPPED RIMMING STEEL 67-09 M04-76894
USING FEEDER HEADS WITH AN INTERNAL METALLIC HALL 67-09 M04-77627
PRODUCTION TECHNOLOGY FOR CHEMICALLY CAPPED STEEL IN BOTTOM-POURED LARGE INGOTS 67-10 M04-79816
AUTOMATIC STATIONARY INDUCTOR PREHEATS 1.8-TON INGOT FEEDERS AT INDUSTRIAL FREQUENCY 67-10 M04-80053
DISTRIBUTION OF INTERNAL DEFECTS IN COLD ROLLED 08KPVG STEEL SHEET CAPPED IN VARIOUS WAYS IN THE MOLDS 67-10 M07-79815
HOT TOPS WITH INNER METAL WALLS 67-11 M04-80915
CASTING STEEL UNDER A LAYER OF MICA 67-11 M04-81412
SLAGGING MIX FOR TEEMING AND REFINING ESPECIALLY HEAT RESISTANT STEEL ALLOYS 67-11 M04-81604
AN ISOTOPE-ASSISTED STUDY OF STRUCTURAL HETEROGENEITY IN A CARBON AND ALLOY STEEL INGOT 67-11 M19-81014
TEEMING RIMMING STEEL INTO CLOSED BOTTLE MOLDS 67-12 M04-81791
HOT TOPS
OPERATIONAL ASPECTS OF STEELMAKING AT DOMNARVET 67-09 M04-76422

HOT TORSION TESTS
SEE TORSION TESTS
HOT TWIST TEST
SEE FORGEABILITY
HOT TWISTING
SEE HOT WORKING
HOT UPSETTING
A METHOD OF CLOSING UP DEFECTS IN LARGE INGOTS 67-03 M07-65964
FORMING TITANIUM IN HOT PRESS-WORKING 67-05 M08-69540
THE UPSETTING PROPERTIES OF ZIRCONIUM AND ZIRCALOY. PT. 2 67-06 M17-71729
CHARACTERISTICS OF HOT DEFORMATION OF TITANIUM AND ITS ALLOYS 67-07 M07-73439
MANUFACTURING OF HOLLOW FORGINGS FROM INGOTS FREE OF SHRINKAGE DEFECTS 67-07 M07-73440
STAMPING OF BALL JOINTS 67-07 M07-73443
CLOSED-DIE FORGINGS. PT. 3 67-12 M07-81946
HOT WATER HEATING
CORROSION AND CORROSION PRODUCT DEPOSITION IN STEEL-COPPER SYSTEMS WITH CIRCULATING HOT WATER CONTAINING VARIOUS INHIBITORS 67-11 M18-80713

HOT WORK TOOL STEELS
AISI TYPE H13 --HOT WORK TOOL STEEL-- 67-07 M01-73158
HOT WORK TOOL STEELS, MECHANICAL PROPERTIES
MUSTANG-LC 67-06 M01-71155
PRESSURDIE-1 67-06 M01-71156
ON THE TEMPERING BEHAVIOR OF 3CR-W, 3CR-W-CO AND 12CR-W-CO-TYPE TOOL STEELS FOR HOT WORK 67-06 M17-70584
HOT WORK TOOL STEELS, MECHANICAL PROPERTIES
HOT WORK DIE STEEL FOR CLOSED IMPRESSION
HOT WORK DIE STEEL FOR CLOSED IMPRESSION FORGING. PT. 2. PHYSICAL PROPERTY REQUIREMENTS
FORGING. PT. 2. PHYSICAL PROPERTY REQUIREMENTS OF DIE STEELS
OF DIE STEELS 67-08 M07-75492
HOT WORK TOOL STEELS, MELTING
THE EFFECT OF VACUUM REMELTING ON THE PROPERTIES OF HOT-WORK TOOL STEELS 67-06 M17-71197
HOT WORK TOOL STEELS, PHYSICAL PROPERTIES
LUMDIE. --HOT WORK STEEL, TYPE H14-- 67-08 M01-75687
JESSOP-SAVILLE JO. SPECIAL. --HOT WORK TOOL STEEL-- 67-09 M01-76524

HOT WORKABILITY
SEE HOT WORKING
HOT WORKING
SEE ALSO AUSFORMING
AUSROLLING
AUSWORKING
CREEP FORMING
CROSS ROLLING
DROP FORGING
HAMMER FORGING
HOT DRAWING
HOT PIERCING
HOT UPSETTING
MARFORMING
PACK ROLLING
PLUG ROLLING
ROLL FORGING
SANDWICH ROLLING
SEJOURNET PROCESS
SHEATH WORKING
STEP FORGING
DETERMINING THICKNESS VARIATION IN HOT ROLLED STRIP 67-01 M07-57182
MOLYBDENUM DIES FOR THE EXTRUSION OF STEEL SHAPES 67-01 M07-57917
PRODUCTION OF 30-100 MM STAINLESS AUSTENITE SHEET AT THE WITCOWICE GOTTWAID PLANT 67-01 M07-58165
TWO-LAYER PACK ROLLING 67-01 M12-57682
EFFECT OF DEFORMATION RATE AND TEMPERATURE ON MECHANICAL PROPERTIES OF SELECTED HIGH STRENGTH ALLOYS 67-01 M17-58682
HOT-WORKING TOOLS 67-01 M20-58700
FORGING METALLURGY--STEEL. PT. 1 67-02 M07-59034
TESTS IN SIMULATING THE CLOSING OF DEFECTS DURING SWAGING AND DRAWING OF LOW-DUCTILE STEEL 67-02 M07-59822
PRESSURE OF METAL ON ROLLERS WHEN ROLLING BY OVAL-SQUARE AND OVAL-EDGE OVAL SYSTEM

67-02 M07-61212
SOME CHARACTERISTICS OF BILATERAL HOT EXTRUSION
67-02 M08-60676
THE DEFORMATION OF CONTINUOUSLY CAST SMALL CROSS SECTIONS 67-02 M17-59137
INFLUENCE OF HOT ROLLING CONDITIONS ON THE STRUCTURE AND PROPERTIES OF MOLYBDENUM, NIOBIUM AND TITANIUM 67-02 M17-60737
HOT EXTRUSION OF CAST IRON 67-03 M07-65308
METALLURGICAL ABSTRACTS ON LIGHT METALS AND ALLOYS. V 2 67-05 M01-68899
EXPLOSIVE HOT FORMING OF STEELS AND REFRACTORY METALS 67-05 M08-69742
THE HOT WORKABILITY OF STEEL IN THE TEMPERATURE RANGE OF THE AC1 POINT 67-05 M17-69322
STUDY OF PROCESS OF MANUFACTURE OF 13 PER CENT CHROMIUM STAINLESS STEEL TUBE. PT. 1. HOT WORKABILITY 67-06 M07-72393
TORSION TESTING THE HOT WORKABILITY OF STEELS
67-06 M17-70980
SHEARING FORCE MEASUREMENTS ON A MECHANICALLY WORKING 2000-TON INGOT-SLAB SHEAR
67-06 M17-71703
ON THE QUALITY OF 18-8 STAINLESS STEEL WIRE ROD FROM CONTINUOUS-CAST BILLETS 67-07 M07-72440
EFFECT OF DIE GEOMETRY ON METAL FLOW IN THE HOT EXTRUSION OF METALS 67-07 M07-72553
VARIATION OF STRESS RELAXATION OF TITANIUM ALLOYS AS A FUNCTION OF THE CONDITIONS OF DEFORMATION AT HIGH TEMPERATURE 67-08 M17-76019
NEW HOT SIZING DIES FORM TITANIUM PARTS TO NET DIMENSIONS AT 1450 F 67-09 M08-77568
PRECISION SWAGING ON A WECKER TWIN-HAMMER FORGING MACHINE 67-10 M07-79284
EFFECT OF THERMOMECHANICAL TREATMENT ON MECHANICAL PROPERTIES OF CR-NI-MO AUSTENITIC STAINLESS STEEL
67-10 M17-78749
THERMOMECHANICAL TREATMENT OF 20GMR STEEL DURING CONTINUOUS COOLING 67-10 M17-79212
HOT AND COLD WORKING OF CAST MATERIALS
67-11 M07-80477
FORMING OF TITANIUM AND TITANIUM ALLOYS
67-11 M08-80678
FORMING TITANIUM IN ONE STEP 67-11 M08-81361
MICROSTRUCTURAL CHANGES DURING AND AFTER HOT WORKING OF TECHNICAL AL ALLOYS AND THE INFLUENCE OF THERMAL TREATMENT PRIOR TO HOT WORKING
67-11 M13-80371
FASTENERS MADE STRONGER VIA VACUUM PROCESSING
67-12 M08-82400
METALLURGICAL PRINCIPLES OF HOT WORKING
67-12 M17-82043

HOT WORKING, DIES
USE OF ZIRCONIUM OXIDE CERAMIC DIE NIBS FOR HOT EXTRUSION OF METALS 67-06 M07-71321
HOT WORKING, IMPURITY EFFECTS
THE EFFECTS OF OXYGEN ON THE MECHANICAL AND CORROSION PROPERTIES OF HAFNIUM
67-01 M17-58457

HOT WORKING, QUALITY CONTROL
AUTOMATIC STRIP THICKNESS REGULATOR
67-01 M19-57679

HOT WORKING, STRESSES
POWER PARAMETERS FOR ROLLING BILLETS
67-01 M07-57184

HOWITZERS
SEE GUNS
HULLS /STRUCTURES/
REPUBLIC-50 --HIGH-STRENGTH LOW-ALLOY CONSTRUCTION STEEL-- 67-04 M01-66122
A SURVEY OF SOME RECENT BRITISH WORK ON THE BEHAVIOR OF WARSHIP STRUCTURES
67-04 M17-66710
HIGH YIELD SHIP STEELS 67-11 M17-80934
HULLS /STRUCTURES/, CORROSION
CATHODIC PROTECTION., TECHNIQUE OF CORROSION CONTROL 67-01 M18-58109
APPLICABILITY OF CATHODIC PROTECTION TO MARINE STRUCTURES 67-02 M18-59484
ACCELERATED CORROSION OF SHIPS BOTTOM PLATE
67-03 M18-65994
THE AEI/MORGAN CATHODIC PROTECTION SYSTEM FOR NAVAL VESSELS 67-05 M18-68502
EUROPEAN RESEARCH ON RUST INHIBITIVE COATINGS
67-06 M18-71069
CORROSION PREVENTION IN THE MERCHANT MARINE
67-07 M18-72540
THE COMPATIBILITY OF PAINTS WITH CATHODIC PROTECTION 67-10 M18-79296

HULLS /STRUCTURES/, FORMING
HIGH ENERGY-RATE FORMING SOME UNUSUAL APPLICATIONS
67-06 M07-70865
HULLS /STRUCTURES/, MATERIALS
THE POSSIBILITY OF REPLACING 10HSNCU STEEL BY NICKEL FREE STEEL 67-01 M17-57995
ALUMINUM ALLOYS FOR PRESSURE HULLS
67-06 M11-70123
STRUCTURES AND MATERIALS FOR DEEP SUBMERSIBLES
67-09 M20-78113
HULLS /STRUCTURES/, MECHANICAL PROPERTIES
LOW-CYCLE FATIGUE OF STEEL STRUCTURES--AN EXPERIMENTAL INVESTIGATION WITH FULL SCALE SHIP STRUCTURAL COMPONENTS 67-01 M17-58599
CONSTRUCTION OF LARGE-SIZE SHIPS AND PROBLEMS IN THE USE OF HIGH-STRENGTH STEEL
67-02 M20-59963
STRUCTURES AND MATERIALS FOR DEEP SUBMERSIBLES
67-09 M20-77713
HULLS /STRUCTURES/, WELDING
PARTIAL PROJECTIONS CAUSED BY FILLET WELDING ON THE SURFACE OF HULL PLATING 67-02 M11-60041
CO2 ARC WELDING OF SHIP HULLS 67-02 M11-60130
CO2 WELDING OF SHIPS HULL STRUCTURES
67-04 M11-67670
APPLICATION OF ELECTRO-GAS WELDING PROCESS TO SIDE SHELL PLATES OF HIGH-SPEED CARGO LINERS
67-10 M11-79492
ELECTROSLAG WELDING IN NAVAL CONSTRUCTION. AUTOMATIC VERTICAL WELDING OF SHIP HULL SIDES
67-12 M11-83204
HUMIDITY
THE PROBLEM OF HUMIDIFYING THE HOT BLAST WHEN USING NATURAL GAS 67-08 M04-74574
HUNTER TECHNIQUE
SEE OPTICAL MEASUREMENTS
REFLECTIVITY
HYDRATING
SEE HYDRATION
HYDRATION
HYDRATION OF TITANIUM ALLOY SCRAP
67-06 M03-71310
STRUCTURE AND STOICHIOMETRY OF NICKEL HYDROXIDES IN SINTERED NICKEL POSITIVE ELECTRODES
67-07 M19-73447
INDENTIFACTION BY X-RAY, DIFFRACTION OF HYDRATED CRYSTALLIZED GALLIUM SULFATE. ISOTOPIC RELATION IN THE SERIES OF CHROMIUM, ALUMINUM AND GALLIUM SULFATES 67-12 M13-82236
HYDRAULIC DRIVES, MECHANICAL PROPERTIES
FAILURE OF A HYDRAULIC CLUTCH 67-08 M17-75533
HYDRAULIC EQUIPMENT
SEE ALSO AXIAL FLOW PUMPS
GEAR PUMPS
HYDRAULIC DRIVES
HYDRAULIC RAMS
HYDRAULIC TURBINES
HYDRAULIC VALVES
PUMPS
VACUUM PUMPS
VANE PUMPS
ALUMINUM HAND FORGINGS--HOW THEY DIFFER, HOW THEY ARE MADE, HOW THEY ARE USED 67-01 M07-57929
NEW DEVELOPMENTS IN TUBE TESTING MACHINES
67-01 M17-58117
TECHNOLOGY AND EVOLUTION OF METAL FORMING TECHNIQUES 67-05 M07-69891
ON THE BULGE TEST OF THE AL FOIL
67-05 M17-68868
HYDROSTATIC EXTRUSION-A NEW METHOD OF METAL FORMING
67-06 M07-70450
A NEW CAST STEEL FOR HYDRAULIC MACHINERY
67-10 M20-78480

HYDRAULIC EQUIPMENT, HARD SURFACING
BUILDING UP HYDROPRESS COMPONENTS DAMAGED BY CAVITATION 67-01 M12-57375
HYDRAULIC JET DRILLING
SEE DRILLING
HYDRAULIC RAMS
HYDRAULICALLY OPERATED SCREW PRESSES
67-04 M08-67250

HYDRAULIC STRUCTURES
SEE HYDRAULIC TURBINES
HYDRAULIC SYSTEMS
FORGED HIGH PRESSURE HYDRAULIC HOSE FITTINGS
67-05 M20-69553

HYDRAULIC SYSTEMS, CORROSION
CORROSION-RESISTANT COPPER ALLOY MAY DOOM STEEL TUBING FOR HYDRAULIC BRAKE LINES

HYDRAULIC SYSTEMS
67-02 M20-61641
HYDRAULIC TURBINES
ON THE MANUFACTURE OF SPIRAL CASING WITH WELCON-2 H STEEL 67-02 M11-60719
MECHANIZED BUILDUP OF VANES OF RADIAL-AXIAL HYDROTURBINE GEARS 67-04 M12-66573
HYDRAULIC TURBINES, MATERIALS
INVESTIGATION OF THE RESISTANCE TO CAVITATION AND ABRASION OF MATERIALS FOR HYDRAULIC TURBINES 67-05 M17-68453
HYDRAULIC VALVES, MACHINING
GUN REAMING SIMPLIFIES VALVE PRODUCTION 67-01 M08-57230
APPLICATIONS OF GUN REAMING IN VALVE PRODUCTION 67-07 M08-73126
HYDRIDES
THERMOCHEMICAL AND STRUCTURAL ASPECTS OF THE REACTION OF HYDROGEN WITH ALLOYS AND INTERMETALLI COMPOUNDS OF ZIRCONIUM 67-02 M14-59020
ON THE FRACTURE OF ZIRCONIUM CONTAINING ZIRCONIUM HYDRIDE PRECIPITATES 67-02 M17-59022
THE DEFORMATION BEHAVIOR OF ZIRCALOY-2 CONTAINING DIRECTIONALLY ORIENTED ZIRCONIUM HYDRIDE PRECIPITATES 67-02 M17-59023
EFFECT OF IRRADIATION ON THE IMPACT PROPERTIES OF HYDRIDED ZIRCALOY-2 AND ZIRCONIUM-NIOBIUM ALLOY 67-02 M17-59027
EFFECT OF TEXTURE, GRAIN SIZE, AND COLD WORK ON THE PRECIPITATION OF ORIENTED HYDRIDES IN ZIRCALOY TUBING AND PLATE 67-03 M14-65849
HYDRIDE FORMATION IN CORRODED TITANIUM ALLOYS 67-05 M18-68640
HYDRIDE HABIT IN ZIRCONIUM AND IN UNSTRESSED AND STRESSED ZIRCALOY-4 67-06 M13-69944
HYDRIDES, ATOMIC STRUCTURE
THE ELECTRON STRUCTURE OF THE METAL-LIKE HYDRIDES.. VANADIUM HYDRIDE 67-07 M16-73281
HYDRIDES, CRYSTAL LATTICES
SOME ADVANCES IN THE STRUCTURAL CHEMISTRY OF ALLOYS --T-X AND T-M-X PHASES-- 67-10 M13-78705
HYDRIDES, DIFFUSION
DIFFUSION OF ZIRCONIUM IN ZIRCONIUM HYDRIDE 67-07 M14-72831
HYDRIDES, PHASES /STATE OF MATTER/
SOLID HYDRIDES 67-11 M16-80469
HYDRIDES, POWDER METALLURGY
ROLE OF POWDER METALLURGY IN THE FABRICATION OF VERY LARGE PARTS 67-01 M09-58683
THE PREPARATION OF LOW-POROSITY SPECIMENS OF TITANIUM AND ZIRCONIUM HYDRIDES BY THE METHOD OF REACTIVE SINTERING 67-02 M09-62105
HYDRIDES, PRECIPITATION
THE ORIENTATION OF ZIRCONIUM HYDRIDE ON GRAIN BOUNDARIES IN ZIRCALOY-2 67-07 M13-74226
HYDRIDES, RADIATION EFFECTS
EFFECTS OF IRRADIATION AND ENVIRONMENT ON THE MECHANICAL PROPERTIES AND HYDROGEN PICKUP OF ZIRCALOY 67-02 M17-59026
HYDRIDES, REACTIONS /CHEMICAL/
STABILITY OF THE HYDRIDES OF CERTAIN TRANSITION METALS WHEN HEATED IN VACUUM 67-06 M15-70160
HYDRIDES, REDUCING AGENTS
AN INTRODUCTION TO CHEMICAL NICKEL PLATING WITH SODIUM BOROHYDRIDE OR AMINE BORANES AS REDUCING AGENTS 67-07 M12-72770
HYDRIDES, STRESS EFFECTS
HYDRIDE MORPHOLOGY IN STRESSED ZIRCONIUM AND THE INFLUENCE OF SPECIMEN SIZE ON DUCTILITY 67-02 M17-59021
HYDRO TURBINES
SEE HYDRAULIC TURBINES
HYDROCARBONS, SYNTHESIS
NOBLE METALS, MOLYBDENUM AND TUNGSTEN IN HYDROCARBON SYNTHESIS 67-08 M14-76159
HYDROCHLORIC ACID, CORROSION ENVIRONMENTS
EFFECT OF INTERSTITIAL ELEMENTS AND IRON ON CORROSION RESISTANCE OF COMMERCIALLY PURE TITANIUM IN HYDROCHLORIC ACID AND SULFURIC ACID 67-01 M18-58237
HYDROFOILS, BONDING
EVALUATING ADHESIVES FOR HYDROFOILS 67-12 M12-82144
HYDROFORMING
HYDROMECHANICAL STAMPING PROCESS 67-02 M08-59141
HIGH ENERGY ELECTRICAL FORMING 67-02 M08-60110
A LOOK AT SOME UNCONVENTIONAL NEW METAL-FORMING METHODS 67-03 M07-65400
FLUID FORMING 67-05 M08-69568
THE ASEA-SAAB FLUID-FORMING METHOD AND EQUIPMENT 67-06 M08-72050
THE HYDROFORM PROCESS 67-06 M08-72051
VARIETY OF HERF METHODS USED FOR GD/FORT WORTHS F-111 67-08 M08-74732
SHOCK FORMING BANGS OUT COMPLEX PARTS ACCURATELY 67-08 M08-74740
HYDROFORM MACHINE REDUCES METAL FORMING COSTS 67-10 M08-79531
HYDROFORMING HIGH TEMPERATURE ALLOYS 67-10 M08-79532
UNUSUAL HYDROFORMING TOOLING APPLICATIONS 67-10 M08-79533
RECENT DEVELOPMENTS IN SHEET-METAL FORMING 67-12 M08-82657
HYDROGEN
SEE ALSO DEUTERIUM
TRITIUM
EXAMINATION OF FUEL AND CLADDING IN PWR-1 BLANKET RODS 67-03 M18-65019
THE HYDROGEN CONTENT IN THE PRODUCTION OF BASIC OXYGEN STEELS 67-07 M04-72910
HYDROGEN, ABSORPTION /ENERGY/
ABSORPTION ENERGY OF HYDROGEN IN METAL 67-08 M14-74647
HYDROGEN, ABSORPTION /MATERIAL/
RELATIONSHIP BETWEEN HYDROGEN UPTAKE AND THE POROSITY OF IRON 67-01 M15-58338
HYDROGEN ABSORPTION BY TI-NI, TI-CR AND TI-AL ALLOYS 67-02 M14-59893
HYDROGEN ABSORPTION AND ITS DISTRIBUTION IN ZIRCONIUM ALLOYS FOR CLADDING MATERIAL OF LIGHT-WATER POWER REACTOR 67-05 M14-69882
COMPARISON OF HYDROGEN AND DEUTERIUM SOLUBILITY IN PALLADIUM-RICH ALLOYS. GOLD-PALLADIUM 67-08 M14-75385
HYDROGEN, ADHESION
SOME FUNDAMENTAL PROBLEMS IN THE MEASUREMENT OF STICKING PROBABILITIES OF GASES ON METAL FILMS 67-07 M15-74265
HYDROGEN, ADSORPTION
THE ADSORPTION KINETICS OF HYDROGEN IN SUSPENSIONS OF METALLIC CATALYSTS. PT. 2 67-08 M14-75641
HYDROGEN, ALLOYING ADDITIVE
EFFECT OF DISSOLVED HYDROGEN ON THE FATIGUE BEHAVIOR OF AN AL-AL2O3 SAP-TYPE ALLOY 67-04 M17-66918
EFFECTS OF HYDROGEN ON THE PROCESSES TAKING PLACE IN VT3-1 ALLOY DURING AGING 67-09 M17-77040
MECHANICAL PROPERTIES OF NIOBIUM-HYDROGEN ALLOYS 67-09 M17-78221
THE PARTICIPATION OF HYDROGEN IN THE FORMATION OF CRYSTALLIZATION CENTERS IN MAGNESIUM MELTS AND IN THE REFINING OF AL-SI-ALLOYS 67-10 M14-78690
HYPERFINE FIELDS IN FE-PD-H ALLOYS 67-11 M15-81669
HYDROGEN, BINARY SYSTEMS
PHASE DIAGRAMS OF SYSTEMS OF HYDROGEN WITH TITANIUM, ZIRCONIUM, VANADIUM AND NIOBIUM 67-04 M13-66824
THE HYDROGEN-PALLADIUM SYSTEM. THE ROLE OF X-RAY AND NEUTRON DIFFRACTION STUDIES 67-05 M14-69283
STUDY OF THE URANIUM-HYDROGEN SYSTEM AT ELEVATED PRESSURES 67-12 M13-82597
A RESISTOMETRIC STUDY OF PHASE EQUILIBRIA AT LOW TEMPERATURES IN THE VANADIUM-HYDROGEN SYSTEM 67-12 M15-82752
HYDROGEN, CHEMICAL ANALYSIS
INVESTIGATION OF THE POSSIBILITIES OF INDUSTRIAL USE OF ACTIVATION ANALYSIS TO DETERMINE OXYGEN AND POSSIBLY NITROGEN AND HYDROGEN IN STEEL. PT. 1 67-04 M19-67216
INVESTIGATION OF THE POSSIBILITIES OF INDUSTRIAL USE OF ACTIVATION ANALYSIS TO DETERMINE OXYGEN AND POSSIBLY NITROGEN AND HYDROGEN IN STEELS. PT. 2 67-04 M19-67217
INVESTIGATION OF THE POSSIBILITIES OF INDUSTRIAL USE OF ACTIVATION ANALYSIS TO DETERMINE OXYGEN AND POSSIBLY NITROGEN AND HYDROGEN IN STEELS. PT. 3 67-04 M19-67257
HYDROGEN DETERMINATION IN ALUMINUM AND ALUMINUM ALLOYS BY ANNEALING IN A VACUUM AT 450 TO 600 C 67-09 M19-77032
DETERMINATION OF NITROGEN IN STEELS AND CAST IRONS BY MEANS OF REDUCTIVE MELTING 67-10 M19-78680
THE EFFECT OF TEST TEMPERATURE AND STRAIN RATE UPON

THE MECHANICAL PROPERTIES OF IRON CONTAINING HYDROGEN ABSORBED FROM ATMOSPHERIC AIR
67-12 M17-82428

HYDROGEN, CHEMISORPTION
CHEMISORPTION OF OXYGEN AND HYDROGEN ON NICKEL FILMS--RECONSTITUTION OF THE ADSORBATE-ADSORBENT INTERFACE
67-10 M14-79552

HYDROGEN, DESORPTION
THE TRAPPING OF HYDROGEN IONS IN MOLYBDENUM, TITANIUM, TANTALUM AND ZIRCONIUM
67-10 M14-79336

HYDROGEN, DIFFUSION
THE EFFECT OF HYDROGEN ON PORE FORMATION IN ARGON ARC WELDING OF TITANIUM
67-01 M11-57524
HYDROGEN IN NICKEL
67-01 M14-58053
INFLUENCE OF HYDROGEN ON PORE FORMATION DURING THE ARGON ARC WELDING OF TITANIUM
67-02 M11-61143
DIFFUSION OF H2-H2O THROUGH POROUS IRON FORMED BY THE REDUCTION OF HEMATITE
67-03 M14-65100
STUDY OF FACTORS INTERVENING IN HYDROGEN DIFFUSION IN IRON
67-04 M14-66351
INTERNAL FRICTION OF PALLADIUM CONTAINING HYDROGEN
67-04 M14-66544
EFFECT OF ORDERING ON THE HYDROGEN PERMEABILITY OF IRON ALLOYS WITH COBALT
67-04 M14-67660
THE DIFFUSION ACTIVATION ENERGY OF INTERSTITIAL ELEMENTS IN TRANSITION METALS WITH A BODY-CENTERED LATTICE
67-04 M14-67916
TRACER EVALUATION OF HYDROGEN IN STEAM-GROWN SIO2 FILMS
67-05 M14-68629
DIFFUSION AND SOLUBILITY OF HYDROGEN IN NICKEL-MANGANESE ALLOYS
67-06 M14-71365
THE SOLUBILITY AND DIFFUSION OF HYDROGEN IN IRON ALLOYS
67-07 M14-72684
HYDROGEN IN BERYLLIUM
67-07 M14-74242
SOLUBILITY OF HYDROGEN IN TITANIUM AT 900 TO 1500 C
67-08 M14-74412
THE INTERRELATIONSHIP OF HYDROGEN DIFFUSION PARAMETERS AND KINETIC COEFFICIENTS IN FE-AL ALLOYS
67-08 M14-75275
INVESTIGATION OF THE KINETICS OF THE SOLUBILITY OF HYDROGEN IN FE, NI, CO AND CU
67-08 M14-75662
ON THE KINETICS OF HYDROGEN ATTACK OF STEELS
67-08 M14-76050
DISSOLUTION AND MOBILITY OF HYDROGEN IN COPPER. PT 1. QUALITATIVE STUDY
67-08 M14-76212
HYDROGEN DIFFUSION TESTING OF SHEET SUSCEPTIBLE TO FISH SCALE
67-09 M12-78053
DIFFUSION OF HYDROGEN IN ALPHA-IRON AT ABOUT 120 K
67-09 M14-77934
ESTIMATION OF DIFFUSIVITY COEFFICIENTS FOR HYDROGEN IN FERROUS MATERIALS
67-09 M14-78153
DIFFUSION OF HYDROGEN IN ALUMINUM
67-09 M14-78253
INFLUENCE OF HYDROGEN ON THE PROPERTIES OF IRON AND ITS ALLOYS
67-10 M14-78527
THE STATE OF HYDROGEN IN STEEL
67-10 M14-78746
SOME NONEQUILIBRIUM EXPERIMENTS ON THE HYDROGEN PERMEATION AND DIFFUSION CHARACTERISTICS OF A 75 PD-25 AG ALLOY
67-10 M14-79604
EXPERIMENTAL STUDY OF THE EFFECT OF TEMPERATURE GRADIENT ON THE DISTRIBUTION OF HYDROGEN IN ZIRCONIUM
67-10 M14-79625
INFLUENCE OF ELECTRICAL CONDITIONS ON THE DIFFUSION OF HYDROGEN IN IRON AND CARBON STEELS
67-10 M14-79986
EFFECT OF VACUUM ARC MELTING ON THE HYDROGEN PERMEABILITY OF STEELS
67-11 M14-80594
HYDROGEN PERMEABILITY OF SOME TRANSITION METALS AND METALS OF GROUP 1 OF THE PERIODIC SYSTEM
67-11 M14-80595
STUDY OF THE DEHYDROGENATION OF ELECTROLYTIC IRON IN VACUUM
67-11 M14-80599
INFLUENCE OF TEMPERATURE AND PRESSURE ON HYDROGEN PERMEABILITY OF KH18N10T STAINLESS STEEL
67-12 M14-81846
HYDROGEN PERMEABILITY OF IRON AND STEEL AT ELEVATED TEMPERATURES
67-12 M14-82425
THE EFFECT OF ORGANIC SUBSTANCES UPON THE ABSORPTION OF CATHODICALLY PRODUCED HYDROGEN BY IRON IN ELECTROLYTE SOLUTIONS
67-12 M14-82426
DISTRIBUTION OF CATHODICALLY PRODUCED HYDROGEN IN STEEL SURFACE LAYERS
67-12 M14-82429
THE DIFFUSION OF HYDROGEN IN LIQUID IRON
67-12 M14-82753
ABSORPTION OF HYDROGEN BY STEEL DURING PICKLING AND ELECTROPLATING
67-12 M17-82427

HYDROGEN, DIFFUSION EFFECTS
HYDROGEN IN HYPEREUTECTIC CAST IRONS
67-02 M14-59092

HYDROGEN, EVOLUTION
MICROSCOPIC OBSERVATIONS OF HYDROGEN EVOLUTION FROM EVOLVED FROM THE STEEL SURFACE
THE STEEL SURFACE. PT. 2. OBSERVATION OF HYDROGEN
67-09 M13-77256

HYDROGEN, EXTRACTION
DETERMINING HYDROGEN CONTENT IN NIOBIUM BY HIGH-TEMPERATURE VACUUM HEATING
67-01 M19-58206

HYDROGEN, GAS ANALYSIS
A MODERN DEVICE FOR DETERMINATION OF HYDROGEN CONTENT OF ALUMINUM MELTS
67-09 M19-77075

HYDROGEN, IMPURITIES
EFFECT OF HYDROGEN ON THE DUCTILITY OF BERYLLIUM PURIFIED BY ZONE MELTING
67-03 M17-65244

HYDROGEN, PHYSICAL PROPERTIES
EFFECT OF VARIOUS ELEMENTS ON THE GAS SATURATION OF NICKEL AND ITS ALLOYS
67-02 M14-61555
THE TERMINAL SOLUBILITY OF HYDROGEN IN ZIRCONIUM ALLOYS BETWEEN 30 AND 400 C
67-05 M14-69562
SOLUBILITY OF HYDROGEN IN LIQUID IRON ALLOYS
67-06 M14-70583

HYDROGEN, RADIATION EFFECTS
EFFECTS OF RADIATION ON THE OXIDATION AND HYDROGEN ABSORPTION OF ZIRCONIUM ALLOYS IN STEAM
67-02 M18-59024

HYDROGEN, REACTIONS /CHEMICAL/
REFRACTORIES IN HYDROGEN ATMOSPHERES
67-07 M14-74012
ABSORPTION OF GASEOUS HYDROGEN BY ZIRCALLOY-2
67-11 M14-80309
MICROSCOPIC OBSERVATION OF THE EVOLUTION OF HYDROGEN FROM METAL
67-11 M14-80598
GAS EVOLUTION IN PLUTONIUM REDUCTIONS
67-12 M03-81829
ELECTRON MICROSCOPE STUDY OF THE REDUCTION OF NICKEL OXIDE BY HYDROGEN
67-12 M14-81812

HYDROGEN, REDUCING AGENTS
THE INFLUENCE OF A THERMAL TREATMENT, UNDER VACUUM, OF NICKEL OXIDE ON THE KINETICS OF ITS REDUCTION BY HYDROGEN
67-12 M14-82232

HYDROGEN, SOLID SOLUTIONS
HYDROGEN SOLUBILITY IN ZIRCONIUM ALLOYS
67-02 M14-59019

HYDROGEN, SOLUBILITY
PHASE DIAGRAM OF THE TITANIUM-OXYGEN-HYDROGEN SYSTEM
67-02 M13-61553
SOLUBILITY OF HYDROGEN IN HARD ALLOYS
67-05 M13-69255
THE CHEMISTRY OF HYDROGEN IN LIQUID-ALKALI-METAL MIXTURES USEFUL AS NUCLEAR REACTOR COOLANTS. PT. 1. SODIUM-POTASSIUM EUTECTIC
67-07 M14-74298
HYDROGEN SATURATION OF STEELS AT ELEVATED TEMPERATURES AND HIGH PRESSURES
67-08 M14-74340
SOLUBILITY OF HYDROGEN IN LIQUID NICKEL
67-08 M14-75406
SOLUBILITY OF GASES IN MANGANESE-BASED LIQUID ALLOYS
67-08 M15-74571
EFFECT OF CERTAIN ELEMENTS ON HYDROGEN SOLUBILITY IN MOLTEN IRON
67-08 M15-75867
THE SOLUBILITY OF HYDROGEN IN IRON, NICKEL, COBALT AND COPPER AND IN THEIR BINARY NICKEL ALLOYS
67-09 M14-77195
HYDROGEN IN CASTING ALLOYS OF ZINC WITH ALUMINUM AND COPPER
67-10 M14-79655
HYDROGEN SOLUBILITY IN LIQUID IRON ALLOYS
67-10 M14-79773
THE INFLUENCE OF INDUCTION MELTING ON THE METALLURGY AND THE PRODUCTION CAPACITY OF THE FOUNDRY
67-11 M06-80369
SOLUBILITY OF HYDROGEN IN LIQUID IRON AND IN SOME LIQUID BINARY IRON ALLOYS
67-11 M14-80943
THE SOLUTION OF INTERSTITIAL ELEMENTS IN THE BODY-CENTERED CUBIC EARLY TRANSITION METALS
67-11 M14-81118
SOLUBILITY OF HYDROGEN IN POROUS POLYCRYSTALLINE ALUMINUM OXIDE
67-11 M14-81558
THE THERMODYNAMICS OF DILUTE INTERSTITIAL SOLID SOLUTIONS
67-11 M15-81119
PROBLEMS OF POROSITY IN CAST STEEL. PT. 2
67-12 M06-83588
THE SOLUBILITY OF HYDROGEN IN MOLTEN NICKEL
67-12 M14-82027

HYDROGEN

SOLUBILITY OF HYDROGEN IN TITANIUM
67-12 M14-82164
SOLUBILITY OF HYDROGEN IN LIQUID TITANIUM AND NICKEL 67-12 M14-82165
SOLUBILITY OF HYDROGEN IN SOLID COPPER, SILVER, AND GOLD OBTAINED BY A RAPID QUENCH AND EXTRACTION TECHNIQUE 67-12 M14-82567
HYDROGEN SOLUBILITY IN ALPHA TI-O ALLOYS
67-12 M14-82747

HYDROGEN, SORPTION
ABSORPTION OF ELECTROLYTIC HYDROGEN BY NICKEL AND IRON-NICKEL ALLOYS 67-09 M14-76626
INFLUENCE OF SODIUM ON THE GAS CONTENT OF ALUMINIUM ALLOYS 67-12 M03-81882
GASES IN ALUMINUM ALLOY DIE-CASTINGS
67-12 M06-81905
GAS ABSORPTION BY AL-MELTS AND THEIR DEGASSING
67-12 M06-83039
ADSORPTION OF GASES ON CHROMIUM FILMS
67-12 M14-82671
STRESS CORROSION CRACKING OF CARBON STEEL
67-12 M18-82186
BEHAVIOR OF STEELS USED FOR AMMONIA SYNTHESIS
67-12 M18-82354

HYDROGEN, STEEL MAKING
EXCHANGE OF HYDROGEN BETWEEN SLAG AND METAL IN THE VARIOUS STEELMAKING PROCESSES
67-10 M04-79672

HYDROGEN, THERMODYNAMICS
DISSOCIATION PRESSURES IN THE SYSTEM YTTERBIUM-YTTERBIUM DIHYDRIDE--A COMPARISON WITH CALCIUM-CALCIUM DIHYDRIDE 67-08 M14-75297

HYDROGEN, TRANSPORT PROPERTIES
ELECTROMIGRATION OF HYDROGEN ISOTOPES DISSOLVED IN
67-12 M15-82729

HYDROGEN COMPOUNDS
SEE HYDROCHLORIC ACID
HYDROGEN SULFIDE
INORGANIC ACIDS
NITRIC ACID
SULFURIC ACID

HYDROGEN EMBRITTLEMENT
ON THE ESCAPE OF DISSOLVED HYDROGEN FROM WELD METAL 67-01 M11-58778
PROBLEM OF THE ROLE OF HYDROGEN IN THE PROCESS OF FRACTURE OF STEEL IN NEUTRAL CORROSIVE MEDIUMS 67-01 M17-57666
EFFECT OF HYDROGEN OF BOS STEEL
67-01 M17-57671
EMBRITTLEMENT OF HIGH STRENGTH AISI 4340 STEEL IN BOILING NACL SOLUTION 67-01 M17-58484
THE HYDROGEN EMBRITTLEMENT OF ALPHA-ZIRCONIUM--A REVIEW 67-01 M17-58533
STRESS-CORROSION CRACKING AND HYDROGEN-STRESS CRACKING OF HIGH-STRENGTH STEEL
67-01 M18-57202
HYDROGEN PERMEABILITY IN A STABLE AUSTENITIC STAINLESS STEEL 67-01 M18-58481
USE OF MULITLAYER COATINGS FOR CORROSION PROTECTION OF SPRINGS IN WATER AT HIGH
67-01 M18-58706
HYDROGEN PENETRATION OF STEEL--SAE 1020 STEEL EXPOSED TO H2S-CO2-H2O 67-01 M18-58764
METHOD OF REDUCING THE FLAKING TENDENCY OF STEEL
67-02 M04-59539
THE PROBLEM OF COOLING --ANNEALING-- FORGINGS OF STEELS WHICH ARE SUSCEPTIBLE TO HYDROGEN EMBRITTLEMENT 67-02 M10-61754
HYDROGEN ABSORPTION BY TI-NI, TI-CR AND TI-AL ALLOYS 67-02 M14-59893
HYDROGEN ACTION IN THE PHENOMENA OF DELAYED FRACTURE IN THE FIELD OF HIGH-STRENGTH STEELS
67-02 M17-59711
SOME REGULARITIES OF THE FORMATION OF HYDROGEN BRITTLENESS IN VT3-1 AND VT15 ALLOYS
67-02 M17-59842
THE FRACTURE OF IRON-3 PER CENT SILICON SINGLE CRYSTALS CONTAINING STABLE MICROCRACKS
67-02 M17-60650
FACTORS AFFECTING THE HYDROGEN CONTENT OF WELD DEPOSIT 67-02 M17-60914
PREVENTION OF HYDROGEN EMBRITTLEMENT IN LITHIUM-COATED PARTS DURING WASHING IN SOLUTIONS
67-02 M17-60973
BRITTLENESS OF VANADIUM IN AN ATMOSPHERE OF HYDROGEN IN ATMOSPHERIC TEMPERATURE
67-02 M17-61022
MECHANICAL PROPERTIES OF MA2-1 ALLOY CONTAINING VARIOUS AMOUNTS OF HYDROGEN 67-02 M17-61288
INFLUENCE OF DEHYDROGENATING ANNEALING ON THE PROPERTIES OF 40KH AND 34KHN3M STEELS
67-02 M17-61987
SUSCEPTIBILITY TO SULFIDE CORROSION CRACKING IN VARIOUS KINDS OF HIGH-STRENGTH STEEL. STUDIES ON SULFIDE CORROSION CRACKING OF WELDABLE HIGH-STRENGTH STRUCTURAL STEEL. PT. 1
67-02 M18-60268
INFLUENCE OF THE CHEMICAL COMPOSITION OF DEOXIDIZER ON THE STRENGTH OF CAST STEEL IN CORROSIVE MEDIUM 67-02 M18-60970
INFLUENCE OF ALIPHATIC AMINES ON HYDROGENATION OF STEEL DURING CATHODE POLARIZATION IN ACID
67-02 M18-60974
CORROSION AND COMPATIBILITY 67-02 M18-61113
EFFECT OF HYDROGEN ON FORMATION OF WELD AFFECTED ZONE CRACKS IN WELDING HARDENING STEELS
67-03 M11-65048
EFFECT OF GAS CONTENT ON TENDENCY TO DELAYED FRACTURE AND COLD CRACKING IN WELDING TITANIUM ALLOYS OF THE TI-AL-ZR SYSTEM
67-03 M17-65047
HYDROGEN ATTACK OF STEEL UNDER DYNAMIC EXPOSURE CONDITIONS 67-03 M18-65405
A NOTE ON THE EFFECT OF TESTING TEMPERATURE ON THE STRESS-CORROSION CRACKING OF MARTENSITIC STAINLESS STEELS 67-03 M18-65999
INFLUENCE OF HYDROGEN, HIGH TEMPERATURE AND HIGH PRESSURE ON MECHANICAL PROPERTIES OF METALS
67-04 M17-66345
THE EFFECT OF STRUCTURE AND ANNEALING TEMPERATURE ON THE HYDROGEN EMBRITTLEMENT OF CU
67-04 M17-67076
DISSOLUTION OF STEEL AND ABSORPTION OF HYDROGEN BY STEEL DURING ACID PICKLING IN PRESENCE OF INHIBITOR. PT. 2 67-04 M18-66304
COMBATTING HYDROGEN EMBRITTLEMENT IN STEELS. IMPROVED ELECTROPLATING METHODS AND THEIR USE
67-05 M12-68488
HYDROGEN ABSORPTION BY VERY STRONG STEEL DURING CHEMICAL DESCALING 67-05 M12-68635
MARAGING STEEL AND LOW-ALLOY STEELS OF VERY HIGH STRENGTH 67-05 M17-68781
EFFECT OF HYDROGEN ON THE STRUCTURE AND PROPERTIES OF VT3-1 ALLOY AFTER VARIOUS HEAT TREATMENTS
67-05 M17-68977
INFLUENCE OF MANGANESE ON HYDROGEN EMBRITTLEMENT OF STEEL 67-05 M17-69008
HYDROGENATION OF STEEL IN SULFIDE AND ALKALINE ELECTROLYTES 67-05 M18-69828
HYDROGEN CORROSION OF STRESSED METAL
67-05 M18-69829
FLAKE PREVENTIVE TREATMENT OF CONTINUOUS CAST SHEET BILLETS OF CHROMIUM STEELS 67-06 M04-71248
THE FEASIBILITY OF LOWERING THE FLAKING SUSCEPTIBILITY OF STEEL BY ADDING SMALL AMOUNTS OF PALLADIUM 67-06 M17-69977
CRACK FORMATION IN HYDROGEN-CHARGED STEEL TENSILE-TEST SPECIMENS 67-06 M17-70839
THE PROBLEM OF HYDROGEN EMBRITTLEMENT IN NICKEL
67-06 M17-71313
EMBRITTLEMENT OF SOME STEELS BY AMMONIA AT HIGH TEMPERATURES AND PRESSURES 67-06 M17-72398
THE EFFECT OF HYDROGEN ON THE STRUCTURAL PROPERTIES OF STAINLESS STEEL AS RELATED TO ITS CORROSION BEHAVIOR 67-06 M18-70126
CORROSION IN CENTRIFUGAL AIR COMPRESSORS
67-06 M18-70545
EFFECT OF HYDROGEN ON CRACKING IN THE HEAT AFFECTED ZONE IN THE WELDING OF HARDENABLE STEELS
67-07 M11-73968
EFFECT OF GAS CONTENT ON THE TENDENCY TO DELAYED FAILURE AND COLD CRACKING WHEN WELDING CERTAIN TITANIUM ALLOYS 67-07 M17-73967
THEORETICAL AND PRACTICAL ASPECTS OF THE ELIMINATION OF HYDROGEN FLOCKING IN STEEL
67-07 M17-74108
ANTI-FLAKE TREATMENT OF CONTINUOUSLY CAST CHROMIUM-NICKEL STEEL SLABS 67-08 M04-75717
REMOVAL OF HYDROGEN FROM SMALL FORGINGS
67-08 M10-74354
BRITTLENESS IN COPPER AND COPPER ALLOYS WITH PARTICULAR REFERENCE TO HYDROGEN EMBRITTLEMENT
67-08 M17-74505
FAULTS IN DESIGN REVEALED BY SERVICE FAILURES. PT. 1 67-08 M17-75614
CONTRIBUTION TO THE INVESTIGATION OF THE PROBLEM OF THE RUPTURE OF EXTRA-MILD STEEL IN THE PRESENCE OF H2 67-08 M17-76220

THE PROBLEM OF H2 IN STEELS 67-08 M17-76292
EFFECT OF HYDROGEN ON THE NATURE OF CRACK PROPAGATION IN VT15 TITANIUM ALLOY DURING TENSILE TESTING 67-09 M17-77127
SUSCEPTIBILITY FOR HYDROGEN EMBRITTLEMENT OF SEVERAL ULTRAHIGH-STRENGTH STEELS 67-09 M17-77260
INVESTIGATION OF THE INFLUENCE OF CURRENT DENSITY ON HYDROGEN EMBRITTLEMENT IN A HIGH-STRENGTH STEEL CADMIUM-PLATED IN AN ALKALINE BATH. PT. 3 67-09 M17-77828
INFLUENCE OF RESIDUAL STRESSES ON STRENGTH PROPERTIES OF HYDROGENATED STEEL 67-09 M17-77957
EFFECT OF TEMPERATURE AND STRAIN RATE ON HYDROGEN EMBRITTLEMENT OF STEEL 67-09 M17-78155
CREEP OF TITANIUM ALLOYS 67-09 M17-78161
THE EFFECT OF HYDROGEN AND STRAIN RATE ON THE DUCTILE-BRITTLE BEHAVIOUR OF ZIRCALOY 67-09 M17-78258
INFLUENCE OF HYDROGEN ON THE PROPERTIES OF IRON AND ITS ALLOYS 67-10 M14-78527
EFFECT OF DEHYDROGENATION ANNEALING ON THE PROPERTIES OF 40KH AND 34KHN3M STEELS 67-10 M17-78844
HYDROGEN EMBRITTLEMENT IN URANIUM 67-10 M17-79590
HYDROGEN EMBRITTLEMENT OF NIOBIUM-OXYGEN AND NIOBIUM-NITROGEN SOLID SOLUTIONS AT ROOM TEMPERATURE 67-10 M17-80024
THE STRESS CORROSION FRACTURE OF HEAT TREATED STEEL EXPOSED TO NH4SCN SOLUTIONS 67-10 M18-78920
WELDED JOINTS BETWEEN DISSIMILAR MATERIALS 67-11 M11-80800
FORMATION AND GROWTH OF MICROCRACKS DURING HYDROGENATION OF STRAINED SILICON IRON 67-11 M17-80596
APPEARANCE OF SUBMICROCRACKS IN ARMCO IRON UNDER STATIC TENSION DURING HYDROGENATION 67-11 M17-80597
EFFECT OF HYDROGEN ON THE MECHANICAL PROPERTIES OF VT15 ALLOY AND DISCUSSION OF THE MECHANISM OF HYDROGEN EMBRITTLEMENT 67-11 M17-81168
EMBRITTLEMENT OF STEEL BY HYDROGEN AT HIGH TEMPERATURE AND HIGH PRESSURE 67-11 M17-81180
PRINCIPAL METHODS OF PROTECTING STEEL FROM HYDROGEN CORROSION 67-11 M18-80593
PROTECTING STEEL FROM HYDROGEN EMBRITTLEMENT IN ACID MEDIA BY USING INHIBITORS 67-11 M18-80600
INVESTIGATION OF 1KH12VNMF STEEL FOR FORGED TURBINE ROTORS 67-12 M17-81839
HYDROGEN EMBRITTLEMENT OF METALS WITH A FACE CENTERED CUBIC LATTICE 67-12 M17-82126
THE EFFECT OF NONMETALLIC NICLUSIONS ON THE FATIGUE STRENGTH OF QUENCH-HARDENED STEEL 67-12 M17-82189
ABSORPTION OF HYDROGEN BY STEEL DURING PICKLING AND ELECTROPLATING 67-12 M17-82427
THE EFFECT OF TEST TEMPERATURE AND STRAIN RATE UPON THE MECHANICAL PROPERTIES OF IRON CONTAINING HYDROGEN ABSORBED FROM ATMOSPHERIC AIR 67-12 M17-82428
A STUDY OF THE MECHANISM EMBRITTLEMENT OF STEEL 67-12 M17-82430
THE EFFECT OF PRELIMINARY PLASTIC DEFORMATION UPON THE RESISTANCE OF STEEL TO HYDROGEN EMBRITTLEMENT 67-12 M17-82431
THE EFFECT OF HYDRAULIC TEST PRESSURE UPON THE SUBSEQUENT SERVICEABILITY OF PARTS OPERATING IN HYDROGEN 67-12 M17-82432
THE EFFECT OF ELECTROLYTIC HYDROGEN UPON THE DUCTILITY OF METALS AND ALLOYS 67-12 M17-82441
HYDROGEN ABSORPTION OF STEEL IN ALKALINE SULFIDE ELECTROLYTES 67-12 M18-82262
HYDROGEN CORROSION OF STRESSED METAL 67-12 M18-82263
CORROSION-FATIGUE STRENGTH OF MARK 1KH18N9T STEEL 67-12 M18-82435
VERY HIGH-STRENGTH STEELS IN THE FRENCH AEROSPACE INDUSTRY 67-12 M20-83374

HYDROGEN EMBRITTLEMENT, ALLOYING EFFECTS
REDUCING THE SUSCEPTIBILITY OF NICKEL-CHROMIUM QUENCHED AND TEMPERED STEEL TO FLAKING 67-12 M17-81951

HYDROGEN EMBRITTLEMENT, IMPURITY EFFECTS
EFFECT OF MICRO-VOIDS AND MANGANESE SULPHIDE INCLUSIONS IN STEEL ON HYDROGEN EVOLUTION AND EMBRITTLEMENT 67-09 M17-78154

HYDROGEN EMBRITTLEMENT, STRESS EFFECTS
REPORT OF BRITTLENESS IN HIGH-STRENGTH STEEL WIRES 67-02 M17-60867
THE EFFECT OF HYDROGEN CHARGING ON THE PETCH RELATIONSHIP FOR ZONE-REFINED IRON 67-03 M17-65093
CONTRIBUTION TO THE INFLUENCE OF HYDROGEN ON THE CRACK PROPAGATION RATE IN WELDED SEAMS, STRESSED BY VIBRATION 67-08 M17-75319

HYDROGEN EMBRITTLEMENT, TEMPERATURE EFFECTS
THE DROP IN THE DUCTILITY OF TITANIUM AT HIGH TEMPERATURES 67-09 M17-77042

HYDROGEN ION CONCENTRATION
SEE PH

HYDROGEN POTENTIAL
SEE ELECTRODE POTENTIALS

HYDROGEN SULFIDE, CORROSION ENVIRONMENTS
INVESTIGATION ON THE DAMAGE TO STEELS UNDER THE EFFECT OF MOIST HYDROGEN SULPHIDE 67-09 M18-77383
RUPTURE BEHAVIOR OF TENSILE TEST BARS OF A TUBE STEEL WITH A MINIMUM YIELD POINT OF 30 KG/MM2 IN SOLUTIONS AND GASES CONTAINING HYDROGEN SULPHIDE 67-09 M18-77384
RUPTURE TESTS CARRIED OUT ON STEELS WITH HIGH TENSILE STRENGTH IN GASES AND SOLUTIONS CONTAINING HYDROGEN SULPHIDE 67-09 M18-77385

HYDROGENATION
HYDROGEN IN NICKEL 67-01 M14-58053
HYDROGENATION OF STEEL DURING CATHODE POLARIZATION IN ALKALI SOLUTIONS 67-01 M18-58713
THE INTRODUCTION OF HYDROGEN INTO IRON 67-02 M14-62250
HYDRIDE MORPHOLOGY IN STRESSED ZIRCONIUM AND THE INFLUENCE OF SPECIMEN SIZE ON DUCTILITY 67-02 M17-59021
INFLUENCE OF ALIPHATIC AMINES ON HYDROGENATION OF STEEL DURING CATHODE POLARIZATION IN ACID 67-02 M18-60974
INFLUENCE OF HYDROGEN, HIGH TEMPERATURE AND HIGH PRESSURE ON MECHANICAL PROPERTIES OF METALS 67-04 M17-66345
EFFECT OF HYDROGEN ON THE TEMPERATURE DEPENDENCE OF THE FLOW STRESS OF NICKEL AND STAINLESS AUSTENITIC STEEL 67-04 M17-67649
STUDY OF HYDROGENATED NICKEL 67-05 M13-69458
INHIBITION OF GRAIN GROWTH DURING RECRYSTALLIZATION AND HARDENING BY INTERVAL HYDROGENATION OF MAGNESIUM-ZIRCONIUM ALLOYS 67-06 M14-70253
INFLUENCE OF HYDROGEN IN THE PROCESS OF CORROSION ON PROPERTIES OF WELDED TITANIUM ALLOYS 67-06 M18-71646
SUPPORTED PLATINUM METAL CATALYSTS--THEIR SELECTION AND METHODS OF USE IN INDUSTRIAL PROCESSES 67-07 M14-72876
HYDROGEN SATURATION OF STEELS AT ELEVATED TEMPERATURES AND HIGH PRESSURES 67-08 M14-74340
NOBLE METALS, MOLYBDENUM AND TUNGSTEN IN HYDROCARBON SYNTHESIS 67-08 M14-76159
INFLUENCE OF RESIDUAL STRESSES ON STRENGTH PROPERTIES OF HYDROGENATED STEEL 67-09 M17-77957
INFLUENCE OF HYDROGEN DURING CORROSION ON THE PROPERTIES OF TITANIUM WELDS 67-10 M18-79613
FORMATION AND GROWTH OF MICROCRACKS DURING HYDROGENATION OF STRAINED SILICON IRON 67-11 M17-80596
APPEARANCE OF SUBMICROCRACKS IN ARMCO IRON UNDER STATIC TENSION DURING HYDROGENATION 67-11 M17-80597
INFLUENCE OF SODIUM ON THE GAS CONTENT OF ALUMINIUM ALLOYS 67-12 M03-81882

HYDROGENATION, TEMPERATURE EFFECTS
VARIATION OF THE RATE OF HYDROGENATION OF URANIUM WITH TEMPERATURE 67-10 M14-79926

HYDROGENIZATION
SEE HYDROGENATION

HYDROLYSIS
AUTOMATIC CONTROL OF PH DURING DEPOSITION OF IN CONCENTRATE 67-05 M03-68232
THE COPPER SULFAMATE BATH 67-08 M12-75502
ACTIVITY OF MAGNESIUM CHLORIDE AND HYDROXYCHLORIDE IN MAGNESIUM BATH MELTS 67-09 M03-77117

HYDROMAGNETIC STABILITY
SEE MAGNETOHYDRODYNAMICS

HYDROMECHANICS
HYDROMECHANICAL DRAWING 67-06 M07-71899
INVESTIGATION OF THE HYDROMECHANICAL EFFECT OF THE IMPACT OF DROPS 67-09 M18-77351
HYDROMETALLURGY
EXTRACTION METALLURGY 67-01 M01-58663
COMMERCIAL TESTING OF A HYDRO-METALLURGICAL METHOD OF REPROCESSING COPPER-BISMUTH CONCENTRATES 67-02 M02-61604
A CONTINUOUS AUTOMATED PLAN FOR OBTAINING NICKEL HYDROXIDE FROM SOLUTIONS FROM HYDROMETALLURGICAL PRODUCTION OF COBALT 67-02 M03-61279
RECENT DEVELOPMENTS IN PRESSURE-HYDROMETALLURGY 67-02 M03-61299
OBTAINING MANGANESE FROM LEAN MANGANESE CARBONATE ORES BY HYDROMETALLURGICAL METHODS. PT. 1. WET EXTRACTION OF MANGANESE BY SOLUTIONS CONTAINING SULFURIC ACID. PT. 2. PURIFYING THE SOLUTIONS OBTAINED BY LEACHING THE ORES WITH SULFURIC ACID 67-04 M02-67227
SILO-LEACHING--A NEW HYDRO-METALLURGICAL APPROACH 67-04 M02-68046
THE CHEMISTRY OF HYDROMETALLURGICAL PROCESSES 67-04 M03-66344
PROCESS TECHNIQUE IN THE METALLURGY OF BISMUTH 67-05 M03-69588
DIRECT ACID PRESSURE LEACHING OF CHALCOCITE CONCENTRATE 67-06 M03-72075
THE USE OF PACHUCA TANKS IN HYDROMETALLURGY 67-07 M02-74097
LABORATORY STUDIES ON THE HYDROMETALLURGICAL TREATMENT OF COPPER-LEAD-ZINC INTERMEDIATE PRODUCTS 67-07 M03-72782
REDUCTION OF ANTIMONY FROM SULFIDE-ALKALI SOLUTION WITH COPPER 67-07 M03-73417
A HYDROMETALLURGICAL METHOD OF TREATING KHOUV-AKSINSK ARSENATE COBALT-NICKEL CONCENTRATES 67-08 M02-75089
HYDROMETALLURGY, AUTOMATION
CONTINUOUS AUTOMATED METHOD FOR PRECIPITATION OF COBALT CONCENTRATE 67-07 M02-73411
HYDRONIC HEATING
SEE HOT WATER HEATING
HYDROSTATIC EXTRUSION
EXTRUSION AND FORMING UNDER HIGH FLUID PRESSURES 67-01 M07-58672
THE BIG SQUEEZE MAKES METALS ACT IN NEW WAYS 67-02 M07-61002
PLASTIC FLOW IN BERYLLIUM UNDER FLUID PRESSURE AT ROOM TEMPERATURE 67-03 M07-65279
METALWORKING 67-05 M01-69601
EXPERIMENTS IN METAL WORKING USING HIGH AND LOW EXPLOSIVE CHARGES 67-05 M07-69160
ON THE THEORY OF THE HYDROEXTRUSION OF BRITTLE METALS 67-05 M07-69664
HYDROSTATIC EXTRUSION-A NEW METHOD OF METAL FORMING 67-06 M07-70450
NEW METHODS OF FORMING STEEL 67-06 M07-72009
METALWORKING PROCESS DEVELOPMENT 67-07 M07-72748
EXTRUSION OF ALUMINUM TUBES AND SECTIONS 67-07 M07-73620
DEFORMATION AND FORMING OF BERYLLIUM AT ROOM TEMPERATURE UNDER PRESSURE 67-07 M07-73754
HYDROMECHANICAL EXTRUSION OF THIN-WALLED TUBES 67-08 M07-75479
HYDROSTATIC EXTRUSION 67-08 M07-75790
DIE DESIGN FOR DRAWING AND EXTRUSION 67-09 M08-77803
APPARATUS FOR EXTRUDING METALS BY MEANS OF A HIGH-PRESSURE LIQUID 67-10 M07-79643
EFFECT OF HYDROSTATIC EXTRUSION ON THE MECHANICAL PROPERTIES OF CUZN AND TINI 67-11 M17-81529
THE APPLICATION OF HYDROSTATIC PRESSURE TO COLD EXTRUSION 67-12 M18-83237
HYDROSTATIC FORMING
FULLY AUTOMATIC HYDRAULIC PRESS FOR THE MANUFACTURE OF BLOCK ANODES 67-01 M07-58225
HIGH ENERGY ELECTRICAL FORMING 67-02 M08-60110
THE DEFORMATION OF SHEET METAL THROUGH UNDERWATER SPARK DISCHARGES 67-04 M08-67060
THE STATUS OF SHEET-METAL FORMING TECHNOLOGY 67-05 M07-69145
HIGH VELOCITY METALWORKING 67-09 M08-77382
APPLICATIONS OF HIGH VELOCITY HYDROELECTRICAL DISCHARGE AS A METAL FORMING AND TESTING TOOL 67-09 M08-77801
FLUID FORMING BY HYDROFORM MACHINES, WHEN AND WHERE TO USE IT 67-09 M08-77802
HYDROSTATIC PRESSING
FLAT MEMBRANE BOTTOMS 67-02 M20-60050
HYDROSTATIC PRESSING OF POWDERS 67-07 M09-73861
HYDROSTATIC PRESSURE
EFFECT OF HIGH HYDROSTATIC PRESSURES ON THE YIELD STRENGTH OF STEEL SPECIMENS DURING UNIDIRECTIONAL EXTENSION 67-01 M17-57139
DYNAMIC DEFORMATION OF METALS UNDER HIGH HYDROSTATIC PRESSURE 67-01 M17-57543
EFFECT OF HYDROSTATIC PRESSURE ON THE MAGNETIC TRANSITION TEMPERATURES OF DY 67-04 M15-67479
EFFECT OF HYDROSTATIC PRESSURE ON THE MAGNETIC MOMENT OF CU-NI ALLOYS 67-04 M15-67480
PRESSURE EFFECT ON MAGNETIC TRANSITIONS IN CRS1.17 67-04 M15-67481
INCREASE OF THE ANISOTROPY OF THE ENERGY GAP IN SUPERCONDUCTING THALLIUM UNDER PRESSURE 67-04 M16-68137
CRITICAL DEFORMATION OF METALS AT RUPTURE UNDER HYDROSTATIC PRESSURE 67-05 M17-69663
SHRINKAGE PRESSURE IN CASTINGS--THE SOLIDIFICATION OF A METAL SPHERE 67-06 M14-69925
THE SHIFT OF THE FERROMAGNETIC CURIE TEMPERATURE IN EUS BY HYDROSTATIC PRESSURE 67-06 M15-70463
THE EFFECT OF HYDROSTATIC PRESSURE ON YIELDING IN IRON 67-09 M17-76760
ULTIMATE PLASTICITY OF METALS DURING TENSION UNDER HIGH PRESSURE 67-10 M17-79223
HYDROSTATIC TESTS
PURGING OTSSN3-7-5-1 BRONZE WITH NITROGEN AND WITH FLUX POWDERS IN A NITROGEN STREAM 67-01 M06-57321
INVESTIGATION OF THE PRESSURE TIGHTNESS OF GRAY CAST IRON 67-01 M15-57323
A STUDY OF THE FRACTURE RESISTANCE OF STEEL PRESSURE VESSELS BY MEANS OF CHARPY, DROP WEIGHT, AND FULL SIZE BURST TESTS 67-01 M17-58604
DETERMINATION OF THE COHESIVE STRENGTH OF LOW-CARBON STEEL --0.03 PER CENT C-- BY MEANS OF HIGH HYDROSTATIC PRESSURES 67-02 M17-60905
BUCKLING STRESS BEHAVIOR PIPES UNDER INTERNAL AND/OR EXTERNAL LOADS 67-03 M17-65186
DEFORMATION OF BERYLLIUM UNDER HYDROSTATIC PRESSURE TO 15 KILOBARS 67-03 M17-65280
ELECTRON BEAM BUTT WELDING OF 5254 ALUMINUM ALLOY PRESSURE VESSEL 67-04 M11-67626
TESTING SOME STAINLESS STEELS FOR HYDROSTATIC BULGING 67-05 M17-69441
TESTING MATERIAL IN BIAXIAL TENSION 67-05 M17-69739
SILVER FOX HI-PROOF AUSTENITIC STAINLESS STEELS 67-06 M17-72099
INVESTIGATION OF THE HYDRAULIC SOUNDNESS OF GREY CAST IRONS 67-07 M15-73045
PLASTICITY LAWS IN CREEP OF POLYCRYSTALLINE METALLIC MATERIALS AT ELEVATED TEMPERATURES 67-07 M17-72978
NDT APPLIED TO PIPELINE CONSTRUCTION AND OPERATION IN THE U.S.A. 67-07 M19-73315
HIGH PROOF STRESS STAINLESS STEELS--SUCCESSFUL VESSEL TESTS AT BWRA 67-08 M17-74738
ELEMENTS OF HYDROSTATIC PIPELINE TESTING 67-08 M17-75554
THE DEFORMATION OF THIN FOILS UNDER HYDROSTATIC PRESSURE 67-12 M17-83026
HYDROXIDES, REACTIONS /CHEMICAL/
THE EFFECTS OF THE REFRACTORY LINING ON METALLURGICAL REACTIONS IN CORELESS INDUCTION FURNACES 67-05 M04-69323
HYGROMETERS
SEE ALSO PSYCHROMETERS
AUTOMATIC CONTROL AND REGULATION OF THE HUMIDITY OF SINTERING CHARGE 67-05 M19-68319
AUTOMATIC MONITORING AND CONTROL OF MOISTURE CONTENT OF SINTERING MIX 67-07 M19-72847
HYGROSCOPICITY
A NON-HYGROSCOPIC FLUX FOR WELDING TITANIUM AND ITS ALLOYS 67-04 M11-66528
HYL SPONGE IRON PROCESS
COMPARATIVE STUDY OF THE CHARACTERISTIC DATA AND ECONOMIC EFFICIENCY OF PRODUCING AND PROCESSING SPONGE IRON 67-08 M04-74684
HYPEREUTECTIC STRUCTURES
EFFECTS OF THE THIRD ADDITION ELEMENTS ON GRAIN SIZE OF PRIMARY SILICON AND ITS COOLING RATE DEPENDENCY IN AL-20 PER CENT SI ALLOY 67-04 M14-67117

HYPEREUTECTOID STRUCTURES
EFFECT OF THE THERMAL RESISTANCE OF FOUNDRY MOLDS ON THE STRUCTURE AND MECHANICAL PROPERTIES OF CASTINGS IN HYPEREUTECTOID STEEL 67-10 M06-79331
FORMATION OF AUSTENITE DURING ELECTRICAL HEATING OF HYPEREUTECTOID STEEL 67-11 M14-80973
HYPEREUTECTOID STRUCTURES, PHASE TRANSFORMATIONS
FORMATION OF AUSTENITE DURING ELECTRIC HEATING OF HYPEREUTECTOID STEEL 67-04 M14-66371
THE PHENOMENA OF GRAPHITE PRECIPITATION OF CALCIUM GRAPHITE STEEL 67-11 M14-81058
THE PROCESS OF GRAPHITE PRECIPITATION OF CALCIUM GRAPHITE STEEL 67-11 M14-81059
HYPERFINE STRUCTURE
HYPERFINE MAGNETIC FIELDS IN IRON-PALLADIUM ALLOYS 67-03 M16-65139
THE TEMPERATURE DEPENDENCE OF HYPERFINE FIELDS IN DILUTE FECU ALLOYS 67-03 M16-65141
MAGNETIC HYPERFINE STRUCTURE OF THE GD155 LEVELS IN METALLIC GADOLINIUM AND IN THE INTERMETALLIC COMPOUND GDAL2 67-05 M16-69028
REMARK ON THE THEORY OF THE ESR SPECTRUM OF THE D1-CONFIGURATION IN RUTILE --TIO2-- 67-08 M16-75244
HYPERFINE MAGNETIC FIELDS AT COBALT NUCLEI IN DILUTE PDCO ALLOYS 67-09 M15-77969
A MOSSBAUER STUDY OF HYPERFINE INTERACTIONS IN DYSPROSIUM METAL 67-10 M15-78665
EFFECTIVE FIELDS IN DILUTE ALLOYS OF MN IN CU AND AU 67-11 M15-80188
HYPERFINE MAGNETIC FIELDS AT COBALT AND TIN NUCLEI IN DILUTE ALLOYS 67-11 M15-80190
HYPERFINE FIELDS IN FE-PD-H ALLOYS 67-11 M15-81669
NUCLEAR MAGNETIC RESONANCE STUDIES OF CUCR2SE4 AND CUCR2TE4 67-12 M16-81770
ELECTRON PARAMAGNETIC RESONANCE IN ELECTRON-IRRADIATED GERMANIUM 67-12 M16-82536
HYPERSONIC NOZZLES
SEE NOZZLES
HYPERSTOICHIOMETRY
SEE NONSTOICHIOMETRIC COMPOUNDS
HYPOEUTECTIC STRUCTURES
ISOTHERMAL TRANSFORMATIONS IN HYPOEUTECTIC GRAY IRON BETWEEN THE CRITICAL RANGE AND ROOM TEMPERATURE 67-09 M14-77670
CONTRIBUTION TO THE STUDY OF MICROSEGREGATION IN FE-C CASTING ALLOYS 67-12 M14-83498
HYPOEUTECTOID STRUCTURES
USE OF A HIGH-FREQUENCY SOURCE TO REVEAL THE METALLOGRAPHIC STRUCTURE OF AN ALLOY 67-12 M13-82507
HYPOID GEARS, MACHINING
GRINDING GEARS WITH CIRCULAR-ARC TOOTH-CURVE 67-09 M08-77578
HYPOID GEARS, STRAIGHTENING
STRAIGHTENING SYSTEM ALSO INSPECTS AUTOMOTIVE PINION SHAFTS 67-06 M08-70681
HYPOSTOICHIOMETRY
SEE NONSTOICHIOMETRIC COMPOUNDS
HYSTERESIS
PRECIPITATION PROCESSES IN ALNICO 67-01 M14-58661
MAGNETIZATION CURVES AND STATIC HYSTERESIS LOOPS OF THIN PERMALLOY FILMS 67-01 M15-57353
UPPER LIMITS OF THE MAGNETIC HYSTERESIS OF CERTAIN FERROMAGNETICS 67-01 M15-57364
ON PARTICULARITIES OF MAGNETIC PROPERTIES OF THIN FILMS WITH EXCHANGE ANISOTROPY 67-01 M15-57577
ROTATING HYSTERESIS IN PLATINUM-COBALT ALLOYS 67-01 M15-58060
SLOW RELAXATION EFFECTS IN MAGNETICALLY NONUNIFORM MATERIALS 67-01 M15-58667
MAGNETIC AND IMPULSE PROPERTIES OF FERRITES CONTAINING VARIOUS AMOUNTS OF CO, SUBJECTED TO THERMOMAGNETIC TREATMENT 67-02 M15-59941
HYSTERESIS LOOPS ON BIAXIAL FERROMAGNETIC FILMS 67-02 M15-61161
MAGNETIC STUDIES OF RELAXATION PHENOMENA IN ALPHA-FE-C ALLOYS 67-02 M15-61533
EXPERIMENTAL EVIDENCE FOR A SURFACE MECHANISM FOR HYSTERESIS IN LOW-K TYPE-2 SUPERCONDUCTORS 67-02 M15-61569
ANISOTROPY DISTRIBUTION AND NATURAL FERROMAGNETIC RESONANCE IN SINGLE-DOMAIN PARTICLES OF FE AND FE-CO ALLOY 67-02 M15-62072
THE SHAPE OF MECHANICAL HYSTERESIS LOOP, ITS DEFORMATION DUE TO STRESS REPETITION AND RESULTING INCREASE IN FLOW STRESS. PT. 1. EXPERIMENT 67-02 M17-58827
THE SHAPE OF MECHANICAL HYSTERESIS LOOP, ITS DEFORMATION DUE TO STRESS REPETITION AND RESULTING INCREASE IN FLOW STRESS. PT. 2. THEORY FOR TORSION 67-02 M17-58828
TESTING THE MAGNETIC PROPERTIES OF ELECTROLYTICALLY DEPOSITED CO ALLOYS 67-03 M15-65831
MAGNETIC HYSTERESIS OF HOLMIUM METAL AT 4.2 K 67-03 M15-65887
DIRECT OBSERVATION OF SURFACE EFFECTS IN A HYSTERETIC SUPERCONDUCTOR 67-03 M16-65138
EFFECT OF SPECIMEN THICKNESS ON THE SUPERCONDUCTING BEHAVIOR OF NIOBIUM SINGLE CRYSTALS IN TORSION 67-03 M16-65224
HYSTERESIS EFFECTS IN THREE SUPERCONDUCTING PHASES OF GALLIUM 67-03 M16-65750
HYSTERESIS IN MARTENSITIC TRANSFORMATIONS 67-04 M14-66532
MAGNETIZING FINELY-DISPERSED PARTICLES OF FE-CO ALLOY 67-04 M15-66480
RELATIONSHIP OF THE COERCIVITY OF THIN FERROMAGNETIC FILMS TO CERTAIN FACTORS 67-04 M15-66482
RELATIONSHIP OF MAGNETIZATION SATURATION AND ELECTRICAL RESISTANCE OF A NI-ZN-CO FERRITE WITH AN INDUCED RIGHT-ANGLED HYSTERESIS LOOP TO PHASE COMPOSITION 67-04 M15-66496
STATIC AND IMPULSE MAGNETIZATION AND MAGNETIC REVERSAL OF THIN FILMS 67-04 M15-67374
EXPERIMENTAL TESTS OF THE CRITICAL-STATE MODEL FOR HYSTERETIC SUPERCONDUCTORS 67-04 M16-67179
COMMENTS ON THE FRICTIONAL STRESS OF MOVING DISLOCATIONS 67-04 M17-66070
TEMPERATURE-MAGNETIC HYSTERESIS IN THE HIGH-COERCIVITY ALLOY CO-PT 67-05 M15-68259
ROTATIONAL ANISOTROPY IN PERMALLOY FILMS 67-05 M15-69388
PROCESS YIELDS CO-FE ALLOYS WITH SUPERIOR HIGH TEMPERATURE MAGNETIC PROPERTIES 67-06 M15-70012
MAGNETIC THIN FILMS DEPOSITED ONTO A LIQUID-LIKE SURFACE 67-06 M15-71547
EXCHANGE ANISOTROPY IN THIN MAGNETIC FILMS 67-06 M15-71833
INFLUENCE OF HEAT TREATMENT ON THE MAGNETIC-CRYSTALLOGRAPHIC ANISOTROPY AND ROTATION-HYSTERESIS LOSS IN LITHIUM PENTAFERRITE SINGLE CRYSTALS 67-06 M15-71920
ON THE ENTROPY OF HYSTERETIC SUPERCONDUCTING STATES 67-06 M16-70466
MAGNETIC AND IMPULSE PROPERTIES OF FERRITES WITH DIFFERENT AMOUNTS OF CO AFTER THERMOMAGNETIC TREATMENT 67-07 M15-72596
MAGNETIC ELECTRICAL AND THERMAL PROPERTIES OF THE BCC-ALPHA PHASE IN A FE-GA SYSTEM 67-07 M15-72726
IS 3.25 PER CENT SI ORIENTED CORE STEEL THE ULTIMATE 67-07 M15-73512
DOMAIN CONFIGURATION AND LOSSES IN CUBE-TEXTURED SILICON IRON 67-07 M15-73521
STRUCTURES AND MAGNETIC PROPERTIES OF GRAIN-ORIENTED 3.2 PER CENT SILICON-IRON 67-07 M15-73522
NUCLEATION AND GROWTH OF REVERSE DOMAINS 67-07 M15-73556
ANOMALOUS HYSTERESIS LOOPS IN PERMALLOY THIN FILMS NEAR 4.2 K 67-07 M15-73578
UNIAXIAL ANISOTROPY AND ROTATIONAL HYSTERESIS IN THIN GADOLINIUM FILMS 67-07 M15-73592
INVESTIGATION OF WALL ENERGY DOMAINS ON PERMINVAR FERRITES 67-07 M15-73803
PROPERTIES AND APPLICATION OF NEW SI MATERIALS WITH CUBICAL TEXTURE 67-07 M15-73812
THE APPLICATION OF SLFT MAGNETIC MATERIALS IN NUCLEAR ENGINEERING 67-07 M15-73814
MECHANICAL HYSTERESIS IN DEFORMED COPPER CRYSTALS 67-07 M17-72656
EFFECT OF MECHANICAL STRESS ON MAGNETIC REVERSAL PROCESSES IN FERROMAGNETIC FILMS 67-08 M15-75255
MAGNETIC PROPERTIES OF ZRZN2--ITINERANT ELECTRON FERROMAGNET 67-08 M15-76171
HYSTERESIS IN THE ALPHA-BETA TRANSITION OF URANIUM SATURATED WITH SILICON 67-09 M14-78266
IRREVERSIBLE MAGNETIZATION IN SUPERCONDUCTORS

HYSTERESIS
67-09 M16-77014
ELASTIC HYSTERESIS OF THERMOELECTROMOTIVE FORCE OF FE-NI ALLOYS 67-10 M15-79233
THE MAGNETOELASTIC INTERNAL DAMPING IN IRON 67-10 M15-79482
DEPENDENCE OF UNIDIRECTIONAL ANISOTROPY ON THE DEGREE OF ATOMIC ORDER IN A NI3MN ALLOY 67-10 M15-79837
HYSTERESIS IN SUPERCONDUCTORS. PT. 1. FLUX TRAPPING IN LOW- AND HIGH-K MATERIALS 67-10 M16-78739
ANHYSTERETIC MAGNETIZATION PROCESS AND MOSSBAUER EFFECT IN IRON POWDER 67-11 M15-80936
A STUDY ON THE VISCOSITY OF MOLTEN IRON 67-11 M15-80942
DYNAMIC HYSTERESIS LOOPS IN THIN FILMS OF SI-FE ALLOY 67-12 M15-82223
MAGNETIC PROPERTIES OF RIGID SUPERCONDUCTORS 67-12 M15-82328
EXCHANGE ANISOTROPY IN OXIDIZED PERMALLOY THIN FILMS AT LOW TEMPERATURES 67-12 M15-82371
NEW RESULTS CONCERNING SOFT-MAGNETIC FE-NI ALLOYS WITH NI CONTENTS BETWEEN 50 AND 60 PER CENT --EFFECT OF CRYSTAL ORIENTATION AND ORDERING OROCESSES-- 67-12 M15-83145
STUDIES OF MAGNETIC HARDNESS IN VICALLOY USING THE MOSSBAUER EFFECT 67-12 M15-83265
HYSTERESIS, HEATING EFFECTS
HYSTERESIS LOOP ASYMMETRY INDUCED BY MAGNETIC ANNEALING IN FE-AL ALLOY 67-01 M15-58660
MINOR LOOP LOSS PREDICTIONS IN DEVICES USING PERMANENT MAGNET MATERIALS 67-01 M15-58668
RECOVERY OF MAGNETIC PROPERTIES IN A STRAINED STRIP OF TRANSFORMER STEEL AFTER ANNEALING IN VARIOUS MEDIA 67-04 M15-66495
HYSTERESIS, IMPURITY EFFECTS
EFFECT OF SULFUR ON THE HIGH-DENSITY MAGNETIC PROPERTIES OF ORIENTED 3 1/4 PER CENT SILICON STEEL 67-07 M15-73520

I BEAMS, MECHANICAL PROPERTIES
BELGIUMS PART IN THE EXPERIMENTAL RESEARCH ON THE BUCKLING OF AXIALLY LOADED MILD-STEEL MEMBERS CONDUCTED BY THE CONVENTION EUROPEENNE DE LA CONSTRUCTION METALLIQUE 67-02 M17-60248
INELASTIC LATERAL STABILITY OF OPEN-SECTION STEEL BEAMS UNDER NONUNIFORM BENDING MOMENT 67-08 M17-75940
I BEAMS, METAL WORKING
HEAVY I-BEAMS TAKE CURVES EASILY 67-01 M07-58486
I BEAMS, PRODUCTION
CONTINUOUS CASTING AND ROLLING WIDE-FLANGE BEAM BLANKS 67-04 M04-67188
I BEAMS, SHEARING
ONE PRESS--MANY TALENTS 67-05 M07-68811
I BEAMS, WELDING
THE INFLUENCE OF RESIDUAL STRESSES ON THE FUNCTIONAL STABILITY OF WELDED STRUCTURES 67-04 M11-67071
I R DROP
SEE ELECTRIC POTENTIAL
ICELAND SPAR
SEE CALCITE
IDENTIFICATION
BASICS OF HEAT TREATMENT. QUENCH IDENTIFICATION TESTS 67-02 M10-59084
IGNEOUS ROCKS
SEE PEGMATITE
IGNITING
SEE IGNITION
IGNITION
THE IGNITION OF URANIUM MONONITRIDE AND URANIUM MONOCARBIDE IN OXYGEN 67-07 M15-74237
IGNITION, ALLOYING EFFECTS
THE INFLUENCE OF ALLOY COMPOSITION ON THE PREVENTION OF IGNITION DUE TO BE ADDITION TO MG ALLOYS 67-05 M06-68885
IHRIGIZING
THE SILICONIZING OF REFRACTORY METALS UNDER NONEQUILIBRIUM CONDITIONS 67-02 M10-62210
ILLUMINATING OIL
SEE KEROSENE
ILMENITE, BENEFICIATION
ACTION OF GAMMA-RADIATION ON THE FLOTATION PROPERTIES OF REAGENT-COLLECTORS OF THE ANION TYPE 67-02 M02-61603
STUDY OF THE FLOTATION PROPERTIES OF CASSITERITE, WOLFRAMITE, ILMENITE AND HEMATITE OF ONE OF THE ORE SITES OF THE VIET NAM DEMOCRATIC REPUBLIC 67-03 M02-65573
PRE-OXIDATION OF ILMENITE ORES AND ITS BEARING ON THEIR SOLID-STATE REDUCTION BY HYDROGEN 67-05 M03-68475
FLOTATION CHARACTERISTICS OF ILMENITE 67-06 M04-71198
HIGH-SPEED ELECTROSEPARATION OF FINE-GRAINED MATERIALS 67-07 M02-72778
THE RÔLE OF HIGH TENSION SEPARATION IN THE BENEFICIATION OF BEACH SAND MINERALS 67-10 M02-78610
CHEMICAL BENEFICIATION OF QUILON ILMENITE BY HIGH TEMPERATURE HYDROCHLORIC ACID LEACHING 67-10 M02-78758
TITANIUM DIOXIDE 67-10 M02-79982
EFFECT OF THE ORDER OF ADDING REAGENTS ON THE FLOTATION PROPERTIES OF CERTAIN MINERALS 67-11 M02-81507
ILMENITE, REACTIONS /CHEMICAL/
ON THE MECHANISMS AND KINETICS OF HYDROGEN REDUCTION OF ILMENITE ORE 67-02 M02-60153
ILMENITE, REDUCTION /CHEMICAL/
HIGH-TITANIA SLAG SMELTING OF NEW ZEALAND TITANIUM ORES 67-09 M03-78269
ILMENITE, SMELTING
THE SMELTING OF EGYTIAN ILMENITE ORES BY A COMBINATION MELTING AND CHLORINATING PROCESS 67-02 M02-60204
IMMERSION COATING
SEE ALSO ELECTROLESS PLATING
HOT DIP COATING
IMMERSION PLATING
METHOD OF PRODUCING A BLACK OXIDE COATING ON FERROUS METALS 67-02 M12-60947
DIP FORMING OF BIMETALLIC WIRE 67-03 M12-65616
THE ACTION OF FLUXES THAT ASSIST TINNING AND SOLDERING 67-04 M11-67761
DIP CLEANING PLUS METAL PRETREATMENT 67-05 M12-69876
ELECTROLYTIC TINNING OF STEEL STRIP 67-06 M12-72194
FLEXIBILITY PAYS DIVIDENDS IN FINISHING HEAVY WORKPIECES 67-07 M12-74030
USE OF DIFFUSION ZINC PLATING IN TUBE INDUSTRY 67-07 M12-74187
COLORED FINISHES FOR COPPER AND COPPER ALLOYS USING SELENIOUS ACID 67-08 M12-74612
DIP FORMING OF BIMETALLIC WIRE 67-09 M12-76476
EFFECT OF HOT DIP GALVANIZING OF WIRE ON THE THICKNESS AND STRUCTURE OF ZINC COAT 67-09 M12-78284
A PHOSPHATE COATING THAT CAN BE WELDED 67-10 M12-78635
STANNATE PROCESS BOOSTS POTENTIAL FOR PLATED ALUMINIUM 67-10 M12-79421
SLURRY-COAT AIMS AT FABRICATORS 67-12 M12-83135
IMMERSION DEPOSITION
SEE IMMERSION PLATING
IMMERSION PLATING
SEE ALSO ZINCATE PROCESS
PRODUCTION OF COPPER WIRE ROD BY DIPFORMING. PT. 2 67-02 M06-58801
PROTECTING METALS WITH ELECTROLESS NICKEL COATINGS 67-02 M18-61141
SCIENCE FOR ELECTROPLATERS. PT. 113. PLATINUM 67-04 M12-66509
ELECTROPLATING ON ALUMINIUM 67-09 M12-77555
IMMERSION TESTING /ULTRASONIC/
SEE ULTRASONIC TESTING
IMMERSION TESTS /CORROSION/
TESTS ON THE EFFECTS OF INDIUM FOR HIGH PERFORMANCE ALUMINUM ANODES 67-03 M18-65477
INHIBITION OF THE CORROSION OF ALUMINIUM-MANGANESE ALLOY.. STUDIES WITH THIOUREA AND DIPHENYL THIOUREA 67-03 M18-65681
LABORATORY COATING TESTS--SHELL INVESTIGATES COATINGS FOR OFFSHORE USE 67-04 M18-66318
PITTING DISSOLUTION BEHAVIORS OF PURE ALUMINUM AND SAP --SINTERED ALUMINUM POWDER-- IN WEAK ALKALINE AQUEOUS SOLUTIONS OF NACL 67-06 M18-70791
EFFECT OF IMMERSION TIME FOR POLARIZATION PHENOMENA OF CONDENSER TUBE IN A FLOWING NACL SOLUTION 67-06 M18-71442
CORROSION BY MGCL2-BASED DE-ICING MEDIA 67-08 M18-74955
IMPACT

THERMAL PHENOMENA ARISING IN IMPACT OF A PROJECTILE ON A METAL SURFACE 67-07 M15-73997
DYNAMIC INDENTATION OF COPPER AND AN ALUMINIUM ALLOY WITH A CONICAL PROJECTILE AT ELEVATED TEMPERATURES 67-07 M17-74089

IMPACT EXTRUSION
NEW TECHNIQUES IN RIGID METAL CONTAINER MANUFACTURE 67-01 M08-57548
SOME EXPERIMENTS AND DYNAMIC CONSIDERATIONS ON IMPACT EXTRUSION 67-02 M07-60998
FABRICATION OF VARIOUS TYPES OF AEROSOLS 67-02 M08-59819
ON THE HIGH ENERGY-RATE WORKING OF STEEL--THE IMPACT EXTRUSION OF STEEL BELOW 900 C 67-04 M07-67581
EXTRUDING DOWN PLUS FORGING UP GIVES HIGH HEAD-TO-SHANK RATIOS 67-05 M07-68303
THE HIGH-SPEED EXTRUSION OF SOME COMMON METALS 67-05 M08-68719
METALWORKING PROCESS DEVELOPMENT 67-07 M07-72748
HIGH SPEED IMPACT EXTRUSION OF METALS 67-07 M07-74090
DESIGN FACTORS FOR IMPACT EXTRUSIONS 67-08 M08-74820
IMPACT EXTRUSION 67-08 M08-74841

IMPACT FORGING
SEE ALSO DROP FORGING
HAMMER FORGING
APPLICATION OF A PETROFORGE MACHINE TO HIGH-SPEED SHEARING OPERATIONS 67-04 M08-66107
AUTOMATED HOT FORGING INSTALLATION 67-05 M07-68632

IMPACT FORMING
NEW METHODS OF FORMING STEEL 67-06 M07-72009

IMPACT PRESSURE
SEE IMPACT

IMPACT STRENGTH
SEE ALSO TENSILE IMPACT STRENGTH
BETHLEHEM INSTALLS NEW PLATE QUENCH AND TEMPER FACILITY 67-01 M10-58495
CHARPY IMPACT TESTING AT 20 K 67-01 M17-57626
MECHANICAL PROPERTIES OF VARIOUS HEAT TREATED STRUCTURES IN THE LOW-CARBON LOW-ALLOY STEEL 67-01 M17-58247
REVERSIBLE SHAKING LADLE --D-M CONVERTER-- 67-02 M04-60619
DUCTILITY OF SAP --SINTERED ALUMINUM POWDER-- AND DURALUMINUM 67-02 M09-61731
INFLUENCE OF HEAT TREATMENT ON LIFE OF SHKH15 CR MARKERS 67-02 M17-59775
EFFECT OF HEAT TREATMENT ON THE MECHANICAL PROPERTIES OF TYPE AT2 ALLOYS 67-02 M17-59833
IMPACT FATIGUE STRENGTH OF HIGH-STRENGTH STAINLESS STEELS IN A WATER JET 67-02 M17-59952
NK-LTC ALUMINUM KILLED STEEL 67-02 M17-60037
SOME NOTES ON THE MANUAL ARC WELDING OF LOW-TEMPERATURE HIGH-STRENGTH STEELS 67-02 M17-60106
THE BREAKING STRENGTH OF A HARD ALLOY UNDER IMPACT LOADS 67-02 M17-61636
THE EFFECTS OF ROLLING TEMPERATURE ON THE MECHANICAL PROPERTIES AND MICROSTRUCTURES OF MILD STEELS 67-03 M17-65837
REASONS FOR THE HIGH IMPACT STRENGTH OF STEEL CONTAINING RARE EARTH METALS 67-04 M13-67967
FRACTURE TOUGHNESS DETERMINATIONS OF A-302B AND NI-MO-V STEELS WITH VARIOUS SIZE SPECIMENS 67-04 M17-66237
EFFECT OF LOAD CYCLING BELOW THE FATIGUE LIMIT ON THE MECHANICAL PROPERTIES OF CARBON STEEL 67-04 M17-66950
VARIATIONS OF THE STRUCTURE AND PROPERTIES OF SOME CARBON STEELS UNDER CYCLIC LOADS BELOW THE FATIGUE LIMIT 67-04 M17-67439
BOUNDARY OF BRITTLENESS IN AUSTENITIC WELDS OF HEAT RESISTANT STEELS WITH 25 PER CENT CHROMIUM 67-04 M17-67444
IMPROVING THE DUCTILITY OF HIGH-SPEED STEELS WITH 9 PER CENT TUNGSTEN BY ADDING ALLOYING ELEMENTS 67-04 M17-67449
IMPROVING THE COLD SHORTNESS OF STEEL CASTINGS 67-04 M17-67509
EFFECT OF ADDITIONS OF ALUMINUM ON PROPERTIES OF ST. 5 SEMIKILLED STEEL 67-04 M17-67605
EFFECT OF THE ADDITION OF SMALL AMOUNTS OF TITANIUM ON THE PROPERTIES AND STRUCTURE OF LOW-CARBON AND LOW-ALLOYED STEELS 67-04 M17-67968
LOW-NICKEL AUSTENITIC KH14G14N3T STEEL 67-04 M17-67976
STRUCTURE AND PROPERTIES OF KH16N6 --EP288-- STEEL 67-04 M17-67983
INOCULATING CAST IRON WITH MAGNESIUM SALTS 67-05 M06-69045
DISPERSION OF METALLIC URANIUM IN URANIUM MONOCARBIDE AND ITS EFFECTS ON THE MECHANICAL PROPERTIES 67-05 M17-68667
ON THE PROBLEM OF THE VALUE OF IMPACT STRENGTH TESTING OF WELDS 67-05 M17-68744
ON THE METHOD OF TESTING OF LOW-CARBON STEEL FOR ITS SENSITIVITY TO MECHANICAL AGING 67-05 M17-68745
PROPERTIES OF OXYGEN-CONVERTER VKST. 3KP STEEL 67-05 M17-69042
WELDED JOINTS OF LOW-TEMPERATURE STEELS IN THE CONSTRUCTION OF PRESSURE VESSELS 67-06 M11-70462
SUBMERGED-ARC WELDING OF ARMY ARMOR 67-06 M11-71683
IMPACT RESISTANCE OF SAND CAST ALUMINIUM BRONZE --BS1400..AB2-- 67-06 M17-69951
QUALITY OF 1020 MM DIAMETER SPIRAL SEAM TUBES OF 15G2S STEEL 67-06 M17-71260
THE EFFECTS OF ADDING VANADIUM TO RAIL STEEL AND AGING IT NATURALLY ON ITS PROPERTIES 67-06 M17-71376
METALLURGICAL PROPERTIES OF IRON-ORE PELLETS OBTAINED BY NONFIRING METHODS 67-07 M02-73017
COMPARISON OF DIFFERENT NOTCH IMPACT TEST SPECIMENS 67-07 M17-72418
FACTORS AFFECTING THE PROPERTIES OF CAST 13 PER CENT CR STEELS 67-07 M17-72755
OBSERVATIONS ON AN EFFECT OF THE CHARGE MIXTURE ON THE STRUCTURE AND MECHANICAL PROPERTIES OF BLACK-HEART MALLEABLE CAST IRON 67-07 M17-73243
HIGH STRENGTH CAST STEEL 67-07 M17-73251
STRUCTURAL STEEL DEVELOPMENTS IN JAPAN 67-07 M17-73293
THE EFFECT OF PHOSPHORUS ON THE MECHANICAL PROPERTIES AND WEAR RESISTANCE OF CAST IRON 67-07 M17-73478
EFFECTS OF PIG IRON AND ALLOY ELEMENTS UPON THE AS-CAST MICROSTRUCTURE AND MECHANICAL PROPERTIES OF SPHEROIDAL GRAPHITE CAST IRON 67-08 M06-74621
FORMING JOINTS WHEN WELDING WITHOUT FUSION 67-08 M11-75407
STRUCTURE AND PROPERTIES OF THE HEAT-RESISTANT ZHS TYPE NICKEL ALLOYS RESULTING FROM QUENCHING 67-08 M17-74965
INFLUENCE OF CARBON ON THE MECHANICAL PROPERTIES OF AUSTENITIC STEEL AT LOW TEMPERATURES 67-08 M17-74967
COLD BRITTLENESS OF LOW-CARBON STEEL TREATED FOR HIGH STRENGTH 67-08 M17-74977
REPEATED TENSILE IMPACT TEST ON CARBON STEEL WITH V NOTCHES 67-08 M17-75133
BRITTLE FRACTURE TESTS ON STEEL PLATE TO BS. 968 IN 1962 67-08 M17-75362
THE EFFECT OF CROSS ROLLING ON THE ANISOTROPIC PROPERTIES OF HOT ROLLED PLATE 67-08 M17-75803
INFLUENCE OF HEAT TREATMENT ON THE STRENGTH OF SHKH15 STEEL STAMPS 67-08 M17-76132
INFLUENCE OF BORIDING ON SOME PHYSICAL AND MECHANICAL PROPERTIES OF STEEL 45 67-09 M17-76436
STEELS FOR HOUSING SOLID FUEL ROCKET MOTORS 67-09 M17-77191
THE FRACTURE OF MILD STEEL LAMINATES 67-09 M17-77732
AN AGE-HARDENABLE, LOW-EXPANSION ALLOY FOR CRYOGENIC SERVICE 67-10 M17-78489
METHODS OF IMPROVING PLASTIC PROPERTIES AND IMPACT STRENGTH OF 196 STEEL 67-10 M17-78927
DEVELOPMENT AND INVESTIGATION OF HEAT RESISTANT STEELS ALLOYED WITH COBALT 67-10 M17-78945
THE EFFECTS OF THERMOMECHANICAL TREATMENT ON THE MECHANICAL STRENGTH OF SPRING STEELS AFTER THEY HAVE BEEN USED 67-10 M17-78953
EFFECT OF THE TYPE OF COLD WORKING ON THE ARTIFICIAL AGING IN NOTCH IMPACT TESTS ON CONVENTIONAL STRUCTURAL STEELS

67-10 M17-79100
THERMOMECHANICAL TREATMENT OF 20GMR STEEL DURING CONTINUOUS COOLING 67-10 M17-79212
MECHANICAL PROPERTIES OF 87/7/3/3 GUNMETAL WITH LEAD AND NICKEL ADDITIONS 67-10 M17-79935
INFLUENCE OF THE MELTING PROCESS ON THE NOTCH TOUGHNESS OF 100 CR 6 STEEL 67-11 M17-80217
THE HIGH-TEMPERATURE PROPERTIES OF A MN-CR-MO-V NORMALIZED AND TEMPERED STEEL--DUCOL W30 67-11 M17-80270
TENSILE AND FATIGUE PROPERTIES OF ALLOY 718 AT CRYOGENIC TEMPERATURES 67-11 M17-80520
CHANGES IN THE MECHANICAL PROPERTIES OF X10NICRWTI36.15 STEEL MELTED IN AN ELECTRIC FURNACE, CAUSED BY REMELTING IN A MULTIPLE-CHAMBER ELECTRON BEAM FURNACE 67-11 M17-80846
STUDIES OF MALLEABLE IRON CASTINGS WITH SPHEROIDAL GRAPHITE. PT. 2. THE PROPERTIES OF MALLEABLE IRON CASTINGS WITH SPHEROIDAL GRAPHITE 67-11 M17-80957
EFFECT OF HYDROGEN ON THE MECHANICAL PROPERTIES OF VT15 ALLOY AND DISCUSSION OF THE MECHANISM OF HYDROGEN EMBRITTLEMENT 67-11 M17-81168
MANUFACTURE OF ASME SA 336 --CASE 1332-3-- STEEL RING FORGINGS FOR NUCLEAR REACTOR VESSELS 67-11 M20-81179
APPLICATION OF DUCTILE IRON FOR CIVIL ENGINEERING 67-11 M20-81533
MODERN MANUFACTURE OF DIE BLOCKS FOR THE METAL-FORMING INDUSTRIES 67-12 M01-81948
GRAPHICAL CALCULATION OF THE CHARGE COMPOSITION OF MULTICOMPONENT SINTERED MATERIALS 67-12 M09-82201
FORMATION OF JOINTS DURING WELDING WITHOUT MELTING 67-12 M11-82028
QUENCHED AND TEMPERED NICKEL ALLOY STEELS 67-12 M17-81803
DYNAMIC STRENGTH OF TENSION MEMBERS --EXTENDERS-- MADE OF MR47-VP MO-RE ALLOY 67-12 M17-81994
STRUCTURE AND MECHANICAL PROPERTIES OF WC-TAC-CO SINTERED CARBIDES 67-12 M17-82160
HIGH STRENGTH STEELS IN DEEP SUBMERSIBLES 67-12 M20-82987
CAST ALLOY DEFIES FURNACE HEAT 67-12 M20-83481

IMPACT STRENGTH, ALLOYING EFFECTS
INFLUENCE OF COPPER ON AL-SI-CU SYSTEM DIE CASTING ALLOYS 67-02 M17-59728
INFLUENCE OF ADDING CERIUM ALLOY MM5 ON THE PROPERTIES OF HEAT-RESISTING ALUMINIUM-SILICON CAST IRONS 67-02 M17-61199
INFLUENCE OF NICKEL ON MECHANICAL PROPERTIES AND CRYOGENIC PROPERTIES OF LOW-CARBON STEEL 67-02 M17-61976
INFLUENCE OF CHEMICAL COMPOSITION ON THE ANISOTROPY OF THE IMPACT STRENGTH OF SOME CASE-HARDENING STEELS 67-02 M17-62065
EFFECT OF CHEMICAL COMPOSITION, MELTING CONDITIONS, TEEMING AND SOLIDIFICATION ON THE MECHANICAL PROPERTIES OF NEW ALUMINUM-MAGNESIUM ALLOYS 67-04 M17-66413
PROPERTIES OF CR-MN-NI STEELS CONTAINING NITROGEN AT LOW TEMPERATURES 67-04 M17-67975
DEVELOPMENT OF IMPROVED WROUGHT ALLOYS FOR REFORMER TUBES 67-06 M17-70535
SOME PROPERTIES OF P/M NICKEL ALLOY STEEL 67-07 M09-73958
MECHANICAL PROPERTIES, STRUCTURE AND INOCULATION TREATMENT OF ANTIMONY-BEARING CAST IRON 67-07 M17-73261
MECHANICAL PROPERTIES OF NODULAR CUPOLA IRON 67-07 M17-74052
INFLUENCE OF RARE-EARTH METALS ON THE PROPERTIES OF LOW-ALLOY STEEL MELTED IN AN ACID ELECTRIC FURNACE 67-08 M17-74541
THE EFFECT OF CR AND MN ADDITIONS ON THE LOW-TEMPERATURE NOTCHED IMPACT STRENGTH OF 14NI6 --FRIDUCTILE N2-- STEEL 67-08 M17-75065
INFLUENCE OF FERROCERIUM AND CALCIUM SILICIDE ON THE PROPERTIES OF LOW ALLOY CAST STEEL 35KH2GM 67-09 M17-78083
EFFECT OF NICKEL ON THE MECHAICAL PROPERTIES AND COLD BRITTLENESS THRESHOLD OF LOW-CARBON STEEL 67-10 M17-78833
THE LOW TEMPERATURE PROPERTIES OF FERRITIC AND AUSTENITIC NODULAR IRONS 67-10 M17-79172
INFLUENCE OF COPPER UPON STRUCTURE AND MECHANICAL PROPERTIES OF GREY CAST IRON--RESULTS OF A SYSTEMATIC INVESTIGATION 67-10 M17-79404
INFLUENCE OF COPPER UPON STRUCTURE AND MECHANICAL PROPERTIES OF GREY CAST IRON--RESULTS OF A SYSTEMATIC INVESTIGATION 67-11 M17-80239
IMPACT STRENGTH OF CAST TOOLS MADE OF R5M2F2 HIGH-SPEED TOOL STEEL 67-12 M17-81778
THE EFFECT OF NOBLE METAL ADDITIONS ON THE TOUGHNESS OF IRON-CARBON ALLOYS 67-12 M17-82760

IMPACT STRENGTH, CASE HARDENING
THE USE OF IMPACT TORSION TESTING IN THE TESTING OF SURFACE-TREATED MATERIALS 67-02 M17-60024

IMPACT STRENGTH, COMPOSITION EFFECTS
PROPERTIES OF RAILS WITH HIGH SILICON CONTENT 67-04 M17-66628
MECHANICAL PROPERTIES OF STRUCTURAL STEELS PRODUCED FROM HIGH-PHOSPHORUS IRON IN THE BASIC OXYGEN FURNACE 67-07 M17-73012
EFFECT OF CHEMICAL COMPOSITION AND HEAT TREATMENT OF GRADE 17241 STEEL ON ITS PLASTIC PROPERTIES 67-09 M17-76812
THE IMPACT STRENGTH PROBLEMS OF AUSTENITIC 12 PER CENT MN CAST STEEL 67-09 M17-77397

IMPACT STRENGTH, HEATING EFFECTS
STUDY OF 9 PER CENT NICKEL LOW-CARBON STEELS WITH SPECIAL REFERENCE TO THE RELATION BETWEEN THE PRECIPITATION AUSTENITE AND THE TOUGHNESS OF 0.1 PER CENT C 9 PER CENT NICKEL STEEL 67-02 M17-59115
THE EFFECT OF DELTA-FERRITE ON THE IMPACT STRENGTH OF THE WELD METAL IN JOINTS IN TRANSITIONAL STEELS 67-04 M17-66463
THE BEHAVIOR OF SOME --ALPHA PLUS BETA-- TI ALLOYS UNDER STATIC AND DYNAMIC STRESS AT ELEVATED TEMPERATURES 67-05 M17-68514
ON THE TEMPERING BEHAVIOR OF 3CR-W, 3CR-W-CO AND 12CR-W-CO-TYPE TOOL STEELS FOR HOT WORK 67-06 M17-70584
CHANGE IN FRACTURE STRUCTURE AND IMPACT STRENGTH OF 3KH13N7S2 STEEL AS A RESULT OF OVERHEATING DURING HOT PRESSWORKING AND HEAT TREATMENT 67-10 M17-79326
EFFECT OF THE DEGREE OF STRUCTURAL DISPERSION ON THE PROPERTIES OF CAST MEDIUM-CARBON STEEL 67-12 M10-82192

IMPACT STRENGTH, IMPURITY EFFECTS
A STUDY OF THE TOUGHNESS DIFFERENCES BETWEEN ALUMINUM-KILLED AND SEMIKILLED STEELS 67-01 M17-58461

IMPACT STRENGTH, RADIATION EFFECTS
EFFECT OF IRRADIATION ON THE IMPACT PROPERTIES OF HYDRIDED ZIRCALOY-2 AND ZIRCONIUM-NIOBIUM ALLOY 67-02 M17-59027
FEATURES AND RESULTS OF SEVERAL PROGRAMS OF RADIATION-DAMAGE SURVEILLANCE OF POWER REACTOR PRESSURE VESSELS 67-06 M17-71640

IMPACT STRENGTH, STRESS EFFECTS
EFFECT OF THE DEFORMATION SPEED ON THE DUCTILE-TO-BRITTLE TRANSITION BEHAVIORS OF A MILD STEEL. STUDY ON THE DEPENDENCE OF MECHANICAL PROPERTIES OF METALS UPON THE STRAIN RATE. PT. 2 67-02 M17-59992
HOW LOW CYCLE FATIGUE EMBRITTLES PRESSURE VESSEL STEELS 67-02 M17-60694

IMPACT STRENGTH, TEMPERATURE EFFECTS
MECHANICAL PROPERTIES OF COMMERCIAL PURE TITANIUM AT HIGH TEMPERATURE 67-01 M17-58738
LOW-TEMPERATURE IMPACT-RESISTANT STAINLESS STEELS USED IN WELDED VESSELS --TANKS-- 67-02 M17-59412
INVESTIGATION OF IMPACT STRENGTH OF AUSTENITIC STEELS AT LOW TEMPERATURES 67-02 M17-61979
THE CONFIGURATION OF IMPACT ENERGY-DEFLECTION DIAGRAMS 67-04 M17-67412
THE TENSILE PROPERTIES AT ROOM AND ELEVATED TEMPERATURES OF SOME CAST AUSTENITIC STEELS 67-06 M17-70530
NEW METHOD FOR REPRESENTING NOTCH TOUGHNESS-TEMPERATURE CURVES 67-09 M17-77084
IMPACT TOUGHNESS OF AUSTENITIC STEELS AT LOW TEMPERATURES 67-10 M17-78836

IMPACT STRENGTH, WELDING EFFECTS
THE INFLUENCE OF SHIELDING GAS COMPOSITION ON WELD METAL PROPERTIES 67-08 M17-75537

IMPACT TESTS
NOTCH IMPACT STRENGTH, FRACTURE APPEARANCE AND TRANSITION TEMPERATURE AFTER VARIOUS HEAT TREATMENTS 67-01 M17-57381
CHARPY IMPACT TESTING AT 20 K 67-01 M17-57626
A NEW LARGE IMPACT TORSION TESTING MACHINE

67-01 M17-58389
LOW-TEMPERATURE IMPACT-RESISTANT STAINLESS STEELS USED IN WELDED VESSELS --TANKS--
67-02 M17-59412
TRANSITION BEHAVIOR AND ESTIMATION OF FRACTURE TOUGHNESS IN THE CHARPY IMPACT TEXT
67-02 M17-59754
THE USE OF IMPACT TORSION TESTING IN THE TESTING OF SURFACE-TREATED MATERIALS 67-02 M17-60024
THE INITIATION OF BRITTLE FRACTURE IN NOTCHED TENSION SPECIMENS 67-02 M17-60908
DETERMINING THE IMPACT STRENGTH OF BUTT WELDED JOINTS BETWEEN STEEL PLATES 67-02 M17-61059
THE DUCTILE-BRITTLE TRANSITION AT VARIOUS NOTCH SHARPNESSES 67-03 M17-65324
ON THE DIRECT MEASUREMENT OF VERY LARGE STRAIN AT HIGH STRAIN RATES 67-03 M17-65662
THE PHASE TRANSITION DUE TO SHOCK COMPRESSION IN IRON 67-05 M14-68843
THE STRENGTH AND COLD RESISTANCE OF AMG5V ALLOY AND ITS WELDED JOINTS AT LOW TEMPERATURES
67-05 M17-69041
PROPERTIES OF OXYGEN-CONVERTER VKST. 3KP STEEL
67-05 M17-69042
OBTAINING HIGH-TEMPERATURE IMPACT FRACTURES FOR ELECTRON MICROFRACTOGRAPHY 67-05 M17-69049
TOUGHNESS OF HIGH-STRENGTH, HOT ROLLED STEELS
67-05 M17-69445
EXPERIMENTS ON A STRUCTURAL STEEL USING THE S. O. D. NOTCH TOUGHNESS TEST 67-06 M17-69901
DETERMINING THE DUCTILITY OF METALS FROM THE RESULTS OF DYNAMIC BEND TESTS
67-06 M17-70913
INVESTIGATION OF THE IMPACT STRENGTH OF AUSTENITIC 12 PER CENT MANGANESE STEEL 67-06 M17-71116
IMPACT WEAR TESTS ON STEEL 67-06 M17-71512
AN INSTRUMENTED CHARPY TEST AND ITS APPLICATION TO THE STUDY OF THE STATES OF BRITTLENESS IN STEEL
67-06 M17-71814
THE DETERMINATION OF THE DUCTILITY OF HARD TOOL STEELS WITH PARTICULAR EMPHASIS ON TORSION IMPACT TESTING 67-06 M17-72161
EFFECT OF PRESTRAINING ON IMPACT STRENGTH OF 30KHGSA STEEL 67-06 M17-72352
COMPARISON OF DIFFERENT NOTCH IMPACT TEST SPECIMENS
67-07 M17-72418
THE TESTING OF THE BEHAVIOR OF METAL PIPELINES UNDER VARYING INTERNAL HYDRAULIC PRESSURE
67-07 M17-73149
INFLUENCE OF ALUMINUM ON COLD BRITTLENESS OF CAST MEDIUM CARBON STEEL 67-07 M17-73175
THE IMPORTANT MATERIALS PARAMETERS AFFECTING THE PERFORMANCE OF NUCLEAR REACTOR PRESSURE VESSELS
67-07 M17-73399
RESISTANCE OF DEPOSITED METAL TO CONTACT-IMPACT LOADS 67-07 M17-73427
METHOD OF WEAR TESTING WITH IMPACT AGAINST AN ABRASIVE SURFACE 67-08 M17-74536
THE VALUE OF THE AGING FACTORS OF IMPACT TEST--TEMPERATURE CURVES ON TEST WIDTHS OF LESS THAN 10 MM --0.4 IN.-- 67-08 M17-75945
INFLUENCE OF THE COMPOSITION ON THE COLD BRITTLENESS OF CAST MEDIUM-CARBON STEEL
67-08 M17-76017
INVESTIGATIONS BY SINGLE IMPACT TESTS ON A STEEL BALL AND STEEL PLATE, WITH EMPHASIS ON CRUSHING OF THE BLASTING MEDIA AND WEAR OF THE MATERIAL BLASTED 67-09 M17-77846
A REVIEW OF CRYOGENIC FRACTURE TOUGHNESS BEHAVIOR
67-10 M17-78484
ACCURACY OF BRINELL IMPACT TESTS
67-10 M17-79176
INVESTIGATION OF THE INFLUENCE OF NONCORROSIVE FLUIDS ON THE MECHANICAL PROPERTIES OF METALS IN STATIC AND DYNAMIC LOADING 67-10 M17-79484
SOME CREEP AND RUPTURE PROPERTIES OF A FORGED LOW-ALLOY MN-CR-MO-V STEEL 67-11 M17-80272
EFFECT OF IMPURITIES AND ALLOYING ELEMENTS ON THE SUSCEPTIBILITY OF HIGH-PURITY IRON TO BRITTLE FRACTURE 67-11 M17-80965
EXAMINATION OF BRITTLE FRACTURE BEHAVIOR BY THE DROP-WEIGHT TEST 67-12 M17-81936
PRODUCTION OF HIGH-TEMPERATURE IMPACT FRACTURES IN ELECTRON MICROFRACTOGRAPHY 67-12 M17-82000
RESULTS OF BURST TESTS ON NIOBIUM-TREATED HIGH TENSILE STEEL PIPES AT LOW TEMPERATURES
67-12 M17-83507

IMPACT TESTS
ANALYSIS OF FRACTURE ENERGY IN THE IMPACT TEST
67-12 M17-83579

IMPACT TESTS, TEMPERATURE EFFECTS
MARGIN FOR ERROR OF THE ISOTHERMAL ROBERTSON TEST
67-05 M17-68786

IMPEDANCE
SEE ACOUSTIC IMPEDANCE
ELECTRICAL RESISTANCE
SURFACE RESISTANCE

IMPERFECTIONS
SEE DEFECTS

IMPERMEABILITY
SEE PERMEABILITY

IMPINGEMENT
EFFECT OF LANCE INCLINATION ANGLE UPON THE AMOUNT OF SPLASHING PRODUCED BY A GAS JET IMPINGING ON THE SURFACE OF A LIQUID 67-05 M04-69083
EFFECTS OF COMPOSITION AND STRUCTURE ON IMPINGEMENT RESISTANCE OF 70/30 CUPRO-NICKEL
67-06 M17-70877
SOME OPERATING CONDITIONS INFLUENCING ATTACK OF NON-FERROUS TUBULAR CONDENSER AND HEAT-EXCHANGER EQUIPMENT 67-09 M18-76633

IMPREGNATION
IMPREGNATING POROUS ALUMINUM ALLOY CASTINGS
67-01 M06-57463
RESEARCH IN THE FIELD OF OIL-IMPREGNATED, POROUS BRONZE BEARINGS 67-04 M20-67211
SELF-LUBRICATING COMPOSITES OF POROUS NICKEL AND NICKEL-CHROMIUM ALLOY IMPREGNATED WITH BARIUM FLUORIDE-CALCIUM FLUORIDE EUTECTIC
67-05 M17-68941
THE IMPREGNATION OF DIE CASTINGS
67-06 M06-70043
IMPREGNATION OF POROUS ALUMINIUM ALLOY CASTINGS
67-06 M06-70751
IMPREGNATION OF SINTERED ARTICLES WITH LIQUID METALS 67-06 M09-70213
SECRETS OF IMPREGNATING P/M PARTS
67-07 M09-73964
THE KINETICS OF METALLIC ACTIVATION SINTERING OF TUNGSTEN 67-08 M09-75292
IMPREGNATED TANTALUM CARBIDE 67-11 M05-80249
MECHANICAL PROPERTIES OF METAL IMPREGNATED GRAPHITES 67-12 M17-82811

IMPRESSED CURRENT PROTECTION
CORROSION OF FOUNDATION STEEL PILING AND ITS CATHODIC PROTECTION 67-02 M18-59144
MARINE ANODES.. THE OLD AND NEW CATHODIC PROTECTION FOR OFFSHORE STRUCTURES 67-04 M18-66314
OFFSHORE MAINTENANCE PROGRAM--CORROSION PROTECTION VITAL IN GULF OF MEXICO 67-04 M18-66315

IMPRESSION DIE FORGING
SEE CLOSED DIE FORGING

IMPURITIES
IMPURITY REDISTRIBUTION IN THERMAL OXIDATION OF SILICON 67-01 M03-58316
CONTENT OF NITROGEN IN METAL DURING COMPRESSED AIR BLOWING OF AN OPENHEARTH BATH
67-01 M04-58170
DISTRIBUTION OF ARSENIC IN CARBON STEEL IN THE CRITICAL TEMPERATURE AREA 67-01 M13-57186
EFFECT OF SMALL QUANTITIES OF ADDED IMPURITIES ON THE DISLOCATION STRUCTURE OF ALUMINUM SINGLE CRYSTALS 67-01 M13-57660
VACANCY-IMPURITY BINDING ENERGY IN ALUMINUM
67-01 M13-57963
INFLUENCE OF SLIGHT IMPURITIES ON THE DIFFUSION COEFFICIENTS IN POLYCRYSTALLINE MATERIALS. PT. 4. EFFECT OF CADMIUM ON THE INTERGRANULAR SELF-DIFFUSION OF SILVER 67-01 M14-57346
METHODS OF DETERMINING THE DISTRIBUTION RATIOS OF VOLATILE IMPURITIES DURING GROWING OF GALLIUM ARSENIDE SINGLE CRYSTALS BY DIRECTED CRYSTALLIZATION 67-01 M14-57696
THE PROBLEM OF IMPURITY DISTRIBUTION IN SILICON SINGLE CRYSTALS GROWN BY THE CZOCHRALSKI METHOD
67-01 M14-58140
SOME PROPERTIES OF HIGH FIELD SUPERCONDUCTORS WITH MAGNETIC IMPURITIES 67-01 M16-57446
ACTIVATION ANALYSIS FOR NONDESTRUCTIVE LOCALIZATION OF IMPURITIES IN FOILS 67-01 M19-58588
BEHAVIOR OF IMPURITIES WHEN PRODUCING COMPACT TUNGSTEN 67-02 M03-60962
SOME COMMENTS ON TECHNIQUES OF PRODUCING SEMIKILLED STRIP STEEL 67-02 M04-59570
DETERMINATION OF THE EFFECT OF VACUUM DEGASSING ON THE QUANTITY OF INCLUSIONS IN STEEL
67-02 M04-59590

IMPURITIES

THE THEORY OF REMOVAL OF HARMFUL IMPURITIES FROM METAL IN OXYGEN-CONVERTER MELTING 67-02 M04-61866
ON THE SLAG CONTENT OF SEAMS WHEN WELDING KH18N9T STEEL WITHOUT EDGE PREPARATION 67-02 M11-60839
EFFECTS OF IMPURITY-VACANCY COMPLEX ON THE DEGREE OF COMPENSATION IN COMPOUND SEMICONDUCTORS 67-02 M16-59058
EVALUATION OF TRACE IMPURITIES IN THE PREPARATION OF HIGH-PURITY SILICON CARBIDE 67-02 M16-59451
PROPERTIES AND EFFECTS OF VARIOUS COMMERCIAL SCRAP GRADES 67-03 M04-65504
IMPURITY DISTRIBUTION IN MGO 67-03 M09-65652
IMPURITY DISTRIBUTION IN EPITAXIAL FILMS AFTER OXIDATION 67-03 M14-65771
ANNEALING OF FAST NEUTRON DAMAGE IN IMPURITY-CONDUCTING N-TYPE GERMANIUM 67-03 M16-65892
SOLID-STATE ELECTROMIGRATION OF IMPURITIES IN CERIUM METAL 67-04 M03-66887
CHANGE IN HYDROGEN CONTENT OF WELD METAL IN RELATION TO SEASON AND DIAMETER OF ELECTRODES 67-04 M11-67804
PREPARING THE METAL SURFACE FOR SEMIAUTOMATIC SUBMERGED ARC WELDING OF FILLET WELDS 67-04 M11-67812
SLAG IN WELDS MADE IN KH18N9T STEEL 67-04 M11-67996
NONMETALLIC INCLUSIONS IN ALUMINUM-ALLOYED STEELS 67-04 M13-67609
IONIZATION ENERGY AND IMPURITY BAND CONDUCTION OF SHALLOW DONORS IN N-GALLIUM ARSENIDE 67-04 M16-66510
EFFECT OF IMPURITIES ON ISOMER SHIFTS IN METALLIC TIN 67-05 M16-69023
IMPURITY-DOPE EFFECTS ON THE ANELASTICITY OF GRAPHITE 67-05 M17-69292
EFFECT OF RESIDUALS IN STEEL FOR WIRE 67-06 M04-72023
VARIATIONS IN WELD METAL HYDROGEN CONTENTS 67-06 M11-70304
SURFACE PREPARATION OF METAL FOR THE SEMI-AUTOMATIC SUBMERGED ARC WELDING OF CORNER JOINTS 67-06 M11-70312
INFLUENCE OF ALLOYING ELEMENTS ON RESIDUAL CONTENT OF NITROGEN IN OPEN ARC WELDED METAL 67-06 M11-72303
INFLUENCE OF THE TEMPERATURE OF METAL DROPS AND KINETICS OF ELECTRODE FUSION ON NITROGEN SATURATION OF WELD METAL 67-06 M11-72304
REACTIONS BETWEEN VACANCIES AND IMPURITIES IN MAGNESIUM OXIDE. PT. 1. CR3 PLUS-ION IMPURITIES 67-06 M14-72197
REACTIONS BETWEEN VACANCIES AND IMPURITIES IN MAGNESIUM OXIDE. PT. 2. MN4 PLUS-ION AND OH EQUALS -ION IMPURITIES 67-06 M14-72198
RAMAN SCATTERING FROM DONOR AND ACCEPTOR IMPURITIES IN SILICON 67-06 M16-71100
ANNEALING OF IMPURITY RECOMBINATION BANDS IN SILICON IRRADIATED BY GAMMA RAYS 67-06 M16-71758
INTERPRETATION OF THE ISOMERIC SHIFTS OF THE GAMMA RADIATION OF IMPURITY NUCLEI SN119 AND AU197 IN METALLIC SOLID SOLUTIONS 67-06 M16-71770
A STUDY OF INTER-IMPURITY RECOMBINATION BETWEEN PHOSPHORUS AND BORON IN SILICON 67-06 M16-71776
ANALYSIS OF THE CONTAMINANTS IN NICKEL OF GRADED PURITY 67-06 M19-70401
NONMETALLIC IMPURITIES IN STEEL 67-07 M01-73189
DISTRIBUTION OF IMPURITIES IN ELECTRON BEAM MELTED INGOTS 67-07 M03-73420
DISTRIBUTION COEFFICIENTS IN GALLIUM ARSENIDE 67-07 M14-72919
SELF-DIFFUSION IN TELLURIUM. PT. 1. ANISOTROPY AND IMPURITY EFFECT 67-07 M14-73934
CALCULATION OF EFFECTIVE FORCES ON AN IMPURITY OF A METAL SUBJECTED TO A TEMPERATURE GRADIENT 67-07 M15-73632
LOCALIZED IMPURITY STATES IN LIQUID METALS--DILUTE ALLOYS OF NICKEL IN LIQUID BISMUTH 67-07 M15-73986
NMR STUDIES OF NI-PD AND NI-RU ALLOYS 67-07 M15-73992
MAGNETIC ANOMALY IN THE METALLIC IMPURITY CONDUCTION 67-07 M16-73991
EFFECT OF TRACE IMPURITIES ON THE CRSS FOR --0001-- SLIP IN BERYLLIUM 67-07 M17-73735
NITROGEN IN WELDING PROCESSES OF STEEL 67-09 M11-76897
DISTRIBUTION OF SULFUR IN TRANSFORMER STEEL INVESTIGATED BY AUTORADIOGRAPHY 67-09 M13-76801
NONMETALLIC INCLUSIONS IN COLD ROLLED TRANSFORMER STEEL 67-09 M13-77640
USE OF ETCH FIGURE TECHNIQUE FOR APPRAISAL OF THE IMPURITY DISTRIBUTION IN ZONE MELTED ALUMINUM 67-10 M13-79204
STUDY OF THE BEHAVIOR OF INTERSTITIAL ATOMS IN MOLYBDENUM BY INTERNAL FRICTION 67-10 M17-80085
EXOGENOUS INCLUSIONS IN STEEL CASTINGS 67-11 M06-81536
NON-METALLIC INCLUSIONS IN COLD-ROLLED TRANSFORMER STEEL 67-11 M13-80928
DEPENDENCE OF THE ANISOTROPY OF THE MECHANICAL PROPERTIES OF STEEL ON THE DEGREE OF CONTAMINATION WITH NONMETALLIC INCLUSIONS 67-11 M17-80958
DETERMINATION OF THE EQUILIBRIUM COEFFICIENTS OF IMPURITY DISTRIBUTION IN BISMUTH 67-12 M03-82408
DISTRIBUTION OF SULFUR IN WHITE GRAPHITIZED AND DECARBURIZED IRONS INVESTIGATED BY THE AUTORADIOGRAPHY METHOD 67-12 M13-82487

IMPURITIES, ALLOYING EFFECTS
EFFECT OF RARE-EARTH ELEMENTS ON THE PROPERTIES OF MEDIUM-CARBON STEEL 67-06 M04-70181
IMPROVING THE QUALITY OF VERY LOW-CARBON STAINLESS STEELS BY USING HIGH-PURITY FERROCHROMIUM 67-09 M04-77360
EFFECTS OF ALLOYING ELEMENTS ON THE RESIDUAL NITROGEN CONTENT OF THE WELD METAL AFTER OPEN ARC WELDING 67-11 M11-81575

IMPURITIES, ATOMIC PROPERTIES
ISOMER SHIFTS ON SN119 IMPURITY NUCLEI IN PD-H ALLOYS 67-07 M16-73705

IMPURITIES, CHEMICAL ANALYSIS
HOW IMPURITY DETECTION IN ALUMINUM STANDS TODAY 67-01 M19-58095
QUALITATIVE DETERMINATION OF NONMETALLIC PHASES FROM THEIR REFLECTIVITY 67-02 M19-58874
APPLICATIONS OF NEUTRON ACTIVATION TO ANALYSIS OF BERYLLIUM 67-03 M19-65253
SPECTRAL ANALYSIS OF OXIDE INCLUSIONS, PRECIPITATED FROM STEEL 67-04 M19-67084
ANALYSIS OF HIGH-ALLOY STEELS ON A VACUUM SPECTROMETER 67-04 M19-67086
EVALUATING THE SENSITIVITY AND ACCURACY OF THE DETERMINATION OF THE TOTAL OXYGEN IN METALS BY THE NEUTRON ACTIVATION METHOD 67-04 M19-67089
DETERMINING IMPURITIES IN HIGH-PURITY NIOBIUM 67-06 M19-70351
IMPURITY ANALYSIS OF ALKALI HALIDES BY MASS SPECTROGRAPHY 67-08 M19-75992
ESTIMATE OF THE SENSITIVITY AND ACCURACY OF DETERMINING THE TOTAL AMOUNT OF OXYGEN IN METALS BY THE NEUTRON ACTIVATION METHOD 67-09 M19-78069
CONTRIBUTION TO THE SPECTROGRAPHIC DETERMINATION OF SMALL CONCENTRATIONS OF ALUMINUM IN STEEL 67-10 M19-79726
AN ISOTOPE-ASSISTED STUDY OF STRUCTURAL HETEROGENEITY IN A CARBON AND ALLOY STEEL INGOT 67-11 M19-81014
CONTRIBUTION TO X-RAY SPECTROCHEMICAL TRACE ANALYSIS. THE DIRECT DETERMINATION OF SMALL CONTENTS OF AL, SB, NB, P, SI, V, SN AND ZR IN STEEL 67-11 M19-81376
STUDY OF SULFIDES IN STEELS. INFLUENCE OF VARIOUS ADDITION ELEMENTS ON THEIR COMPOSITION 67-12 M13-83339

IMPURITIES, CONCENTRATION /COMPOSITION/
DETERMINATION OF IMPURITIES IN HIGH-PURITY NIOBIUM 67-10 M19-79632

IMPURITIES, CRYSTAL GROWTH
METHODS OF DETERMINING THE COEFFICIENT OF IMPURITY DISTRIBUTION IN DIRECTIONAL SOLIDIFICATION 67-12 M14-82332

IMPURITIES, DIFFUSION
DETERMINATION OF THE DIFFUSION COEFFICIENT OF IMPURITIES BY ANELASTIC METHODS 67-04 M14-66223
DISLOCATION-INDUCED DEVIATION OF PHOSPHORUS-

DIFFUSION PROFILES IN SILICON
67-04 M14-67102
SELF-DIFFUSION IN HIGHLY-DILUTED BINARY SOLUTIONS. PT. 3. EFFECT OF SN, SB, PB AND BI PHASE
67-04 M14-67919
THE BEHAVIOR OF IMPURITIES IN LEAD SELENIDE SINGLE CRYSTALS 67-06 M14-71372
THE EFFECT OF APPLIED ELECTRIC FIELD ON DIFFUSION OF IMPURITIES IN GALLIUM ARSENIDE
67-06 M16-70986
DIFFUSION OF IMPURITIES IN POLYCRYSTALLINE SILVER. PT. 1. DIFFUSION OF INDIUM 67-11 M14-80730
SELF-AND IMPURITY DIFFUSION IN ALPHA-ZIRCONIUM
67-11 M14-81597
DIFFUSION OF METALLIC IMPURITIES IN ZIRCONIUM AND TITANIUM 67-12 M14-82330

IMPURITIES, EXTRACTION
ENRICHMENT AND SPECTROPHOTOMETRIC DETERMINATION OF SMALL AMOUNTS OF CHROMIUM AND THE APPLICATION OF THE METHOD IN THE ALUMINIUM INDUSTRY
67-01 M03-57209

IMPURITIES, HEATING EFFECTS
DAMAGE FORMATION RATES IN GE SUBJECT TO THERMAL TREATMENT 67-12 M16-82020

IMPURITIES, METALLOGRAPHY
THE DISTRIBUTION OF SULFUR IN TRANSFORMER STEEL INVESTIGATED BY AUTORADIOGRAPHY
67-06 M13-70341

IMPURITIES, MICROSCOPY
ELECTRON MICROSCOPY AND MICRODIFFRACTION STUDY OF NONMETALLIC INCLUSIONS IN MOLYBDENUM AND ITS ALLOYS 67-05 M13-68208

IMPURITIES, RADIATION EFFECTS
DEFECT-IMPURITY RELATIONSHIPS IN ELECTRON-DAMAGED SILICON 67-03 M16-65742
REDISTRIBUTION OF IMPURITIES IN METALS DURING IRRADIATION AND RECOVERY 67-04 M16-67388

IMPURITIES, SOLUBILITY
THE SOLUBILITY OF IMPURITIES IN IN2TE3
67-04 M14-66028

IMPURITIES, STEEL MAKING
CHANGE IN THE AMOUNT OF IMPURITIES IN MOLTEN STEEL DURING THEIR FLOTATION 67-11 M04-81649

IMPURITIES, VIBRATION
LOCALIZED MODES OF SUBSTITUTIONAL IMPURITIES IN INTERMETALLIC COMPOUNDS 67-04 M16-66744

IMPURITY EFFECTS
IMPURITY EFFECTS ON HETEROGENEOUS NUCLEATION FROM THE VAPOR.. SELENIUM ON GLASS
67-06 M14-70974

INCANDESCENT LAMPS
THE HEATING AND METALLOGRAPHY OF ULTRA-FINE RECRYSTALLIZED TUNGSTEN WIRE 67-02 M14-59007

INCANDESCENT LAMPS, MATERIALS
DEFECTS IN DOPED TUNGSTEN SEEN WITH THE FIELD-ION MICROSCOPE 67-06 M13-71062

INCHROMIZING
SEE CHROMIZING

INCINERATION
SEE COMBUSTION

INCLUSIONS
SEE ALSO NONMETALLIC INCLUSIONS
CRYSTAL STRUCTURE AND SOME CHEMICAL AND PHYSICAL PROPERTIES OF NONMETALLIC INCLUSION IN STEEL
67-01 M13-58310
RECENT DEVELOPMENTS ON THE ISOLATION OF INCLUSIONS --PRECIPITATES-- IN STEEL 67-01 M14-58261
EFFECT OF NONMETALLIC INCLUSIONS ON THE STRENGTH OF QUENCHED SHKH15 STEEL DURING HYDROGENATION
67-01 M17-57665
ISOLATION AND EASE OF ISOLATION OF OXIDE INCLUSIONS IN AUSTENITIC CR-NI STEELS
67-01 M19-57921
DETERMINATION OF NONMETALLIC INCLUSIONS IN IRON-BASE ALLOYS 67-02 M04-59578
RELATION BETWEEN MOLTEN STEEL COMPOSITION AND INCLUSION COMPOSITION 67-02 M04-60036
SAND SEAM OF LOW-CARBON KILLED STEEL FOR TUBE
67-02 M04-60038
REPORT OF OXYGEN DISTRIBUTION IN INGOTS OF RIMMED STEEL
67-02 M04-60654
INTERNAL SCABS IN TUBES MADE FROM INGOTS OF CIRCULAR CROSS SECTION 67-02 M07-59693
REPORTS ON THE BEHAVIOR OF TUNGSTEN ELECTRODES IN TIG WELDING 67-02 M11-59758
THE STUDY OF SULFURIZED HIGH-SPEED STEEL. PT. 3. INCLUSIONS IN SULFURIZED HIGH-SPEED STEEL
67-02 M13-59116
USE OF YTTRIUM IN GETTERING OXYGEN AND NITROGEN IN NIOBIUM-BASE ALLOYS 67-02 M13-61777
METALLURGICAL IMPROVEMENT OF THE QUALITY OF COLD ROLLED D. D. Q. RIMMED STEEL SHEET
67-02 M17-58845
STUDY OF 9 PER CENT NICKEL LOW-CARBON STEELS WITH SPECIAL REFERENCE TO THE RELATION BETWEEN THE PRECIPITATION AUSTENITE AND THE TOUGHNESS OF 0.1 PER CENT C 9 PER CENT NICKEL STEEL
67-02 M17-59115
EFFECT OF THE PURITY OF STEEL AND OF THE CORROSIVE MEDIUM ON LOW-CYCLE FATIGUE 67-02 M17-59655
THE ROLE OF NON-METALLIC INCLUSIONS IN THE FAILURE OF CAST STEEL 67-02 M17-61912
DISTRIBUTION OF Y90 IN CAST IRONS WITH VARIOUS FORMS OF GRAPHITE INCLUSIONS 67-02 M19-61808
MICROANALYZER STUDY OF INCLUSIONS IN BERYLLIUM AND THEIR RELATION TO THE PROPERTIES OF SEMIFINISHED BERYLLIUM PRODUCTS 67-03 M17-65286
CERTAIN PROBLEMS IN REMOVING GASES AND NONMETALLIC OXIDE INCLUSIONS DURING MELTING OF TRANSFORMER STEEL 67-04 M04-66902
INVESTIGATION OF THE TECHNOLOGICAL CHARACTERISTICS OF W-NI-CU-ALLOYS CONTAINING DISPERSIVE INCLUSIONS OF ZIRCONIUM DIOXIDE
67-04 M09-66259
STRENGTHENING OF HADFIELD STEEL
67-04 M13-67143
THE APPLICATION OF PHASE INTEGRATORS TO THE DETERMINATION OF INCLUSIONS AND THE VOLUMETRIC DETERMINATION OF SEGREGATION RANGES IN STEEL
67-04 M13-67204
STUDIES ON THE SOLIDIFYING RATE AND FORMATION OF SULFIDE INCLUSIONS IN VARIOUS RESULFURIZED STEELS
67-04 M13-67560
NONMETALLIC INCLUSIONS IN ALUMINUM-ALLOYED STEELS
67-04 M13-67609
ON THE SOLUBILITY OF THE NITRIDES OF CHROMIUM, VANADIUM AND ALUMINUM IN AUSTENITE
67-04 M14-67391
CASTINGS FROM NONMAGNETIC IRON CONTAINING 2 PER CENT NI 67-04 M15-66414
EFFECT OF RARE-EARTH METALS ON PROPERTIES OF 12KH1MF STEEL 67-04 M17-66217
MICROANALYSIS OF SULFIDE INCLUSIONS IN THE REGION OF AN INVERTED V SEGREGATE OF A STEEL INGOT
67-04 M19-67272
INFLUENCE OF PRELIMINARY DEOXIDATION ON QUALITY OF OPENHEARTH STEEL TREATED WITH ANYTHETIC SLAG IN A LADLE 67-05 M04-68546
PRODUCTION OF TRANSFORMER STEEL BY THE OXYGEN-CONVERSION METHOD 67-05 M04-69508
REGULARITIES IN ELIMINATION OF NONMETALLIC INCLUSIONS DURING VACUUM ARC MELTING
67-05 M04-69605
THE MECHANISM OF FORMATION OF MACROSCOPIC INCLUSIONS PRODUCED BY AIR-OXIDATION OF MOLTEN STEEL 67-05 M04-69708
THE FORMATION OF MANGANESE SULFIDE IN GRAY CAST IRONS DURING SOLIDIFICATION 67-05 M06-68950
A DECADE OF VACUUM DEGASSING AT U. S. STEEL. PT. 2
67-05 M06-69551
FE-AL INCLUSIONS IN ZINC ALLOY PRESSURE CASTINGS
67-05 M13-69109
TORSIONAL FATIGUE TEST OF MILD STEEL CONTAINING NONMETALLIC INCLUSIONS 67-05 M17-68464
EFFECT OF RIMMING ACTION ON LARGE SLAG INCLUSIONS IN THE BOTTOM ZONE OF RIMMED-STEEL INGOTS
67-06 M04-72204
BEHAVIOR OF NONMETALLIC INCLUSIONS DURING ROLLING OF STEEL DEOXIDIZED WITH THE COMBINATIONS MN-AL AND SI-AL. PT. 5. DEFORMATION OF INCLUSIONS IN STEEL DURING ROLLING 67-06 M04-72211
OCCURRENCE OF BORON IN OXIDE INCLUSIONS IN STEEL
67-06 M13-70808
BEHAVIOR OF THE INCLUSIONS FORMED IN HIGH-CHROMIUM FREE-CUTTING STEEL. PT. 2. A STUDY OF INCLUSIONS IN FREE-CUTTING STEEL 67-06 M14-72021
EXAMINATION OF BASIC BESSEMER RAIL STEEL
67-06 M19-70258
FILTRATION OF LIGHT METAL MELTS
67-07 M03-73490
EFFECT OF PRELIMINARY DEOXIDATION ON QUALITY OF OPEN-HEARTH STEEL TREATED WITH SYNTHETIC SLAG IN THE LADLE 67-07 M04-72457
PRELIMINARY EXPERIMENTS ON RATE OF SOLIDIFICATION AND THE FORMATION OF SULFIDE INCLUSIONS IN RESULFURIZED STEELS. PT. 1. INVESTIGATION INTO THE STRUCTURE OF STEEL INGOTS
67-07 M04-72497

INCLUSIONS
PRIMARY INCLUSIONS FROM THE DEOXIDATION OF STEEL WITH SILICON AND ALUMINUM. PT. 1. KINETIC RESEARCHES ON STEEL DEOXIDATION 67-07 M04-72499
INCLUSIONS IN CONTINUOUSLY CAST CARBON STEELS 67-07 M04-73081
ON SOME PROPERTIES AND THE CONDITIONS FOR HOT PRESSWORKING STAINLESS HEAT PROOF STEEL 67-07 M07-73792
A RATIONAL APPROACH TO STANDARDS FOR WELDED CONSTRUCTION. PT 1 67-07 M11-73606
BEHAVIOR OF DISLOCATIONS IN THE STEEL MATRIX AROUND SMALL NONMETALLIC INCLUSIONS. PT. 4. DEFORMATION OF NONMETALLIC INCLUSIONS IN STEEL DURING ROLLING 67-07 M13-72496
COALESCENCE OF SULFIDES DURING SECONDARY GROWTH IN 3 PER CENT SILICON-IRON 67-07 M14-73515
APPLICATION OF ELECTRON BEAM MICROANALYSIS IN CORROSION INVESTIGATIONS 67-07 M18-73118
THE CHEMICAL ISOLATION OF OXIDE INCLUSIONS IN RIMMING STEELS 67-07 M19-72709
THE AUTOMATION OF THE CONTINUOUS NONDESTRUCTIVE TESTING OF HOT ROLLED PRODUCTS 67-07 M19-72713
THE MECHANISM OF FORMATION OF OXIDE INCLUSIONS AT THE ADDITION OF DEOXIDIZER 67-08 M04-75769
NUCLEATION OF OXIDE PARTICLES DURING SOLIDIFICATION 67-08 M14-75315
STUDY OF THE AMOUNT AND SPREAD OF NONMETALLIC INCLUSIONS IN MECHANICALLY AND CHEMICALLY CAPPED RIMMING STEEL 67-09 M04-76894
EVALUATION OF CHROMIUM RECOVERY IN CR-NI STAINLESS STEELS --300 SERIES-- 67-09 M04-78007
SOME PROPERTIES OF STAINLESS HEAT-RESISTANT STEEL AND HEAT-TREATMENT CONDITIONS FOR IT 67-09 M07-76555
THE BAUMANN PRINT 67-09 M13-78022
RELATION BETWEEN THE DISTRIBUTION OF TINY INCLUSIONS IN RIMMED MILD STEEL SHEET AND THE RECRYSTALLIZED GRAIN SIZE 67-09 M13-78244
CONTRIBUTION TO THE STUDY OF THE PHENOMENA OCCURRING DURING THE OXIDATION OF A STEEL BATH 67-09 M14-76379
GRAIN GROWTH OF RIMMED MILD STEEL SHEET UNDER THE DISTRIBUTION OF SPHERICAL INCLUSIONS OF DIFFERENT SIZES 67-09 M14-78243
THE AUTOMATIC ULTRASONIC TESTING OF BILLETS FOR INTERNAL DEFECTS 67-09 M19-76509
NONMETALLIC INCLUSIONS IN WELD METAL 67-09 M19-77975
DISTRIBUTION OF Y90 IN CAST IRONS CONTAINING GRAPHITE PARTICLES OF DIFFERENT SHAPES 67-09 M19-78080
NEW METHOD FOR CONTROLLING STEEL QUALITY. MICROPROBE AND RADIOACTIVE TRACER ANALYSIS OF INCLUSIONS 67-09 M19-78290
EXTRANEOUS INCLUSIONS IN ELECTROSLAG AND VACUUM-ARC REMELTED STEEL 67-10 M04-79814
DISTRIBUTION OF INTERNAL DEFECTS IN COLD ROLLED 08KPVG STEEL SHEET CAPPED IN VARIOUS WAYS IN THE MOLDS 67-10 M07-79815
MARTENSITE INCLUSIONS IN STEEL WIRES DEVELOPED DURING DRAWING OR THROUGH WRONG USE OF ROPES 67-10 M13-78321
NONMETALLIC HARD INCLUSIONS IN LIGHT-ALLOY COMPONENTS 67-10 M13-78326
ON THE BEHAVIOURS OF THE PRECIPITATED SULPHIDE INCLUSIONS IN SOLID STEEL 67-10 M14-79993
INCLUSIONS, ALLOYING EFFECTS
THERMODYNAMIC ANALYSIS OF THE REDUCTION OF CHROMIUM INCLUSIONS IN 20 PER CENT-CHROMIUM STEEL BY RARE EARTH METALS OF THE CERIUM SUBGROUP 67-04 M04-66608
EFFECT OF CERIUM ON STRUCTURE AND PROPERTIES OF OKH23N18 STEEL 67-05 M13-68557
ON THE REFINING EFFECT OF SI IN THE VACUUM MELTING OF 50NI-FE ALLOY AND ITS INFLUENCE ON THE MAGNETIC PROPERTIES 67-05 M15-69862
EFFECT OF CERIUM ON STRUCTURE AND PROPERTIES OF OKH23N18 STEEL 67-07 M13-72468
INCLUSIONS, CHEMICAL ANALYSIS
THE DETERMINATION OF OXIDE INCLUSIONS IN STEEL 67-02 M04-60206
QUALITATIVE DETERMINATION OF NONMETALLIC PHASES FROM THEIR REFLECTIVITY 67-02 M19-58874
IDENTIFICATION OF NONMETALLIC INCLUSIONS IN STEEL BY POLISHED THIN SECTION AND X-RAY MICROANALYSER 67-02 M19-58942
IDENTIFICATION OF NONMETALLIC INCLUSIONS IN STEELS BY THE POLISHED THIN SECTION AND X-RAY MICROANALYSER 67-02 M19-59155
LASER MICROPROBE HELPS IDENTIFY INCLUSIONS 67-03 M19-65981
QUANTITATIVE DETERMINATION OF ACID-INSOLUBLE ALUMINUM OXIDE AND OTHER INCLUSIONS IN ALUMINUM CASTING ALLOYS 67-04 M19-66149
SPECTRAL ANALYSIS OF OXIDE INCLUSIONS, PRECIPITATED FROM STEEL 67-04 M19-67084
ANALYSIS OF HIGH-ALLOY STEELS ON A VACUUM SPECTROMETER 67-04 M19-67086
THE COMPOSITION OF NONMETALLIC INCLUSIONS IN ALUMINUM-ALLOYED STEELS 67-06 M13-70272
ANALYSIS OF THE NONMETALLIC INCLUSIONS IN MAGNETICALLY HARD ALLOYS 67-09 M19-76978
SPECTRAL ANALYSIS OF OXIDE INCLUSIONS SEPARATED FROM STEEL 67-09 M19-78065
INCLUSIONS, COMPOSITION EFFECTS
OBSERVATION OF DEOXIDATION PRODUCTS FORMED IN THE SI-DEOXIDATION OF STEEL 67-04 M13-67559
PROPERTIES OF RAILS WITH HIGH SILICON CONTENT 67-04 M17-66628
INCLUSIONS, DIFFUSION EFFECTS
ON THE FORMATION OF INCLUSIONS DURING DEOXIDIZATION OF LIQUID IRON BY ALUMINIUM 67-02 M04-59749
INCLUSIONS, HEATING EFFECTS
STRUCTURE AND PROPERTIES OF STRUCTURAL STEEL MADE BY VARIOUS METHODS 67-02 M17-61951
STRUCTURE AND PROPERTIES OF CONSTRUCTIONAL STEEL MELTED BY VARIOUS METHODS 67-04 M17-67782
STUDY OF THE CONDITIONS OF ALUMINUM NITRIDE FORMATION IN TRANSFORMER STEEL DURING HEATING 67-05 M13-68556
RESEARCH INTO CONDITIONS UNDER WHICH ALUMINIUM NITRIDES ARE FORMED IN TRANSFORMER STEEL WHEN IT IS HEATED 67-07 M13-72467
INCLUSIONS, METALLOGRAPHY
NONMETALLIC INCLUSIONS IN THE FE-P-O SYSTEM 67-03 M13-65776
INCLUSIONS, PHASES /STATE OF MATTER/
OXIDE INCLUSIONS FORMED IN THE STEELS OF FE-CR-O SYSTEM 67-01 M04-58597
INCLUSIONS, REACTIONS /CHEMICAL/
THE VARIATIONS OF THE COMPONENTS IN THE INCLUSION 67-11 M04-80750
INCLUSIONS, SEPARATION
SEPARATION RATE OF PRIMARY INCLUSION IN AGITATED STEEL BATH 67-01 M04-58562
NUCLEATION, GROWTH, AND FLOTATION OF OXIDE INCLUSIONS IN LIQUID STEEL 67-04 M04-66732
INCOHERENT SCATTERING
INCOHERENT SCATTERING OF GAMMA RAYS IN URANIUM 67-12 M16-83263
INCONEL
ENGINEERING PROPERTIES OF INCONEL ALLOY 625 67-02 M01-61663
INCONEL ALLOY 625 --HIGH TEMPERATURE ALLOY-- 67-04 M01-68065
INCONEL, BASKETS
HOW GRAIN SIZE AFFECTS LIFE OF HEAT TREATING BASKETS 67-06 M20-72246
INCONEL, CORROSION
BEHAVIOR OF IRON-CHROME-NICKEL AUSTENITES AND FEAL 40 ALLOY IN SUPERHEATED STEAM 67-01 M18-57162
ON THE MECHANISM OF STRESS CORROSION CRACKING IN AUSTENITIC STAINLESS STEELS 67-03 M18-65844
INCONEL, MECHANICAL PROPERTIES
STRAIN-CYCLE PHENOMENA IN THIN-WALL TUBING 67-07 M17-73391
EFFECT OF GRAIN BOUNDARY DENUDATION OF GAMMA PRIME ON NOTCH-RUPTURE DUCTILITY OF INCONEL NICKEL-CHROMIUM ALLOYS X-750 AND 718 67-12 M17-82762
INDENTATION
DYNAMIC INDENTATION OF COPPER AND AN ALUMINIUM ALLOY WITH A CONICAL PROJECTILE AT ELEVATED TEMPERATURES 67-07 M17-74089
INDEX OF REFRACTION
SEE REFRACTIVITY
INDICATORS /INSTRUMENTATION/
SEE LEVEL INDICATORS
INDIUM, ALLOYING ADDITIVE
THE STACKING-FAULT ENERGY IN THE AG-IN SERIES 67-02 M13-60809
MARTENSITE IN TERNARY CU-ZN-BASED BETA-PHASE ALLOYS 67-03 M14-65079
THE INFLUENCE OF ALLOYING ELEMENTS ON ALUMINUM

ANODES IN SEA WATER 67-03 M18-65473
TESTS ON THE EFFECTS OF INDIUM FOR HIGH PERFORMANCE ALUMINUM ANODES 67-03 M18-65477
THE ANNEALING OF QUENCHED-IN VACANCIES IN DILUTE ALUMINIUM ALLOYS 67-11 M10-80302

INDIUM, BINARY SYSTEMS
NEW PHASE IN THE MERCURY-INDIUM SYSTEM 67-01 M14-58534
THE QUASIBINARY SYSTEM INTI-INBI 67-02 M13-59441
CONTRIBUTION TO THE EQUILIBRIUM DIAGRAM OF THE SYSTEM MERCURY-INDIUM 67-02 M13-60615
THE BINARY SYSTEMS SR-IN AND BA-IN 67-04 M13-66159
THE THALLIUM-INDIUM SYSTEM AT ELEVATED PRESSURES AND TEMPERATURES 67-04 M14-66050
ELECTRICAL RESISTIVITY MEASUREMENTS OF LIQUID BINARY ALLOYS. PT. 1. BI-IN SYSTEM 67-04 M15-67518
INVESTIGATION OF ELECTRIC TRANSPORT AND DIFFUSION IN INDIUM-ANTIMONY SYSTEMS 67-05 M15-69260
SUPERCONDUCTIVITY IN THE ALLOY SYSTEM INDIUM-THALLIUM 67-05 M16-69519
NUCLEAR MAGNETIC RESONANCE IN LIQUID GALLIUM ALLOYS 67-05 M16-69785
PHASE DIAGRAM OF THE PEUDO-BINARY SYSTEM AG2TE-IN2TE3 AND SEMICONDUCTING PROPERTIES OF AGIN9TE14 67-09 M13-77899
STUDIES OF THE BINARY SYSTEMS PLUTONIUM-GOLD PLUTONIUM-GALLIUM AND PLUTONIUM-INDIUM 67-09 M14-76321
TRANSITION TEMPERATURE OF PB-IN AND PB-TL ALLOYS 67-11 M16-80720
METASTABLE INDIUM-BISMUTH PHASES PRODUCED BY RAPID QUENCHING 67-12 M14-82866

INDIUM, CHEMICAL ANALYSIS
THE DETERMINATION OF INDIUM IN MAGNESIUM ALLOYS BY FLAME PHOTOMETRY 67-05 M19-69624

INDIUM, COATINGS
SCIENCE FOR ELECTROPLATERS. PT. 114. RUTHENIUM-PHENIUM-IRIDIUM-INDIUM 67-05 M12-68493
ELECTROCHEMICAL AND PHOTOCHEMICAL EFFECTS ON THE CATHODE EFFICIENCY OF AN INDIUM ELECTROPLATING BATH 67-05 M12-68818

INDIUM, CRYSTAL GROWTH
IMPURITY DISTRIBUTION IN SINGLE CRYSTALS. PT. 3. IMPURITY HETEROGENEITIES IN SINGLE CRYSTALS ROTATED DURING PULLING FROM THE MELT 67-09 M14-77896

INDIUM, DIFFUSION
INVESTIGATION OF THE SELF-DIFFUSION OF INDIUM BY ABSORPTION WITH THE AID OF INTERNAL CONVERSION ELECTRONS OF IN114 67-01 M14-58131
INTERSTITIAL DIFFUSION OF GOLD AND SILVER IN INDIUM 67-02 M14-60765
INTERSTITIAL SOLUTIONS OF NOBLE METALS IN METALS AND SEMICONDUCTORS 67-04 M14-67540
INVESTIGATION OF THE DIFFUSION OF ANTIMONY AND INDIUM IN GERMANIUM, INCLUDING EFFECT OF INTERNAL ELECTRIC FIELD 67-06 M14-70869
DIFFUSION AND SOLUBILITY OF ZINC, CADMIUM, INDIUM AND IRON IN LEAD SELENIDE 67-06 M14-70939
DIFFUSION OF INDIUM OVER THE SURFACE OF GERMANIUM 67-06 M14-71831
INVESTIGATION OF THE DIFFUSION OF ANTIMONY AND INDIUM IN GERMANIUM WITH ACCOUNT OF THE INTERNAL ELECTRIC FIELD 67-06 M14-71832
DIFFUSION OF IMPURITIES IN POLYCRYSTALLINE SILVER. PT. 1. DIFFUSION OF INDIUM 67-11 M14-80730
EFFECT OF AN INTERNAL ELECTRIC FIELD ON SIMULTANEOUS DIFFUSION OF IMPURITIES IN SEMICONDUCTORS 67-11 M14-81044
ELECTROMIGRATION OF CADMIUM AND INDIUM IN LIQUID BISMUTH 67-12 M14-82957

INDIUM, ELECTRICAL PROPERTIES
THE TEMPERATURE AND FIELD DEPENDENCE OF THE GALVANOMAGNETIC PROPERTIES OF ALUMINUM AND INDIUM 67-03 M15-65366
INTERACTION OF FERROMAGNETIC AND SUPERCONDUCTING THIN FILMS 67-05 M16-68905
RESISTANCE AND MAGNETORESISTANCE OF THIN INDIUM WIRES 67-07 M15-73936

INDIUM, EXTRACTION
RECOVERING NON-FERROUS AND RARE METALS FROM LEAD CAKES, USING THE SULFATIZATION METHOD 67-04 M03-67522
AUTOMATIC CONTROL OF PH DURING DEPOSITION OF IN CONCENTRATE 67-05 M03-68232
METHOD OF RECOVERING REJECT TRANSISTORIZED DEVICES 67-10 M03-79863
THE HYDROMETALLURGICAL TREATMENT OF CHLORIDE SUBLIMATES 67-12 M03-83319

INDIUM, FERMI SURFACE
INVESTIGATION OF THE FERMI SURFACE AND OF CARRIER VELOCITIES IN INDIUM BY THE CYCLOTRON RESONANCE METHOD 67-05 M16-69027

INDIUM, INTERMETALLICS
SOME CROSS-SUBSTITUTIONAL ALLOYS OF CDTE 67-02 M16-61765
THERMODYNAMIC INVESTIGATIONS ON LIQUID AND SOLID MERCURY-INDIUM ALLOYS 67-04 M15-66542
HIGH FREQUENCY PROPERTIES OF INSB UNDER A MAGNETIC FIELD 67-04 M16-67425
NUCLEAR MAGNETIC RESONANCE IN AN INBI INTERMETALLIC COMPOUND 67-05 M16-69106
SUPERCONDUCTING HOMOGENEOUS INTI AND PBBI FILMS EVAPORATED FROM A SINGLE SOURCE 67-08 M12-76152
THICKNESS DEPENDENCE OF KAPPA2 AND RELATED PROBLEMS FOR SUPERCONDUCTING ALLOY FILMS IN STRONG FIELDS 67-08 M16-74944
OPTICAL PROPERTIES OF THE INTERMETALLIC COMPOUNDS AUAL2, AUGA2 AND AUIN2 67-10 M15-78907
THE BAND EDGE AND THE ENERGY SPECTRUM OF IN2SE 67-10 M16-79020
A THERMODYNAMIC INVESTIGATION OF THE COMPOUNDS, IN3SBTE2, INSB, AND INTE 67-11 M15-81348

INDIUM, MECHANICAL PROPERTIES
INDENTATION HARDNESS AND THE CREEP OF SOLIDS 67-02 M17-61291
CHARACTERISTICS OF PLASTIC DEFORMATION OF INDIUM AND ITS ALLOYS 67-02 M17-62086
MICROHARDNESS OF CHEMICAL ELEMENTS 67-04 M17-66858

INDIUM, OPTICAL PROPERTIES
OPTICAL PROPERTIES OF THIN FILMS OF INDIUM 67-03 M15-65188
THE OPTICAL PROPERTIES OF INDIUM, GALLIUM AND THALLIUM 67-06 M15-72089
OPTICAL PROPERTIES OF INDIUM 67-11 M15-81369

INDIUM, PHYSICAL PROPERTIES
THE RELATIONSHIP BETWEEN ELECTRICAL CONDUCTIVITY AND SOUND VELOCITY IN MOLTEN METALS 67-08 M15-74649

INDIUM, QUATERNARY SYSTEMS
STUDY OF THE QUATERNARY SYSTEM IN-SB-CD-SN TO DETERMINE THE PHASE EQUILIBRIA IN THE SECTION OF INSB --CDSNSB2-- 67-06 M13-71119

INDIUM, REACTIONS /CHEMICAL/
DISSOLUTION OF METALS BY AC ELECTROLYSIS 67-01 M14-58583
STUDY OF THE INTERACTION OF INDIUM WITH ITS TRICHLORIDE 67-06 M15-72114

INDIUM, SINGLE CRYSTALS
CONTACT POTENTIAL DIFFERENCE BETWEEN THE --111-- AND --111-- SURFACES OF INSB CLEAVED IN ULTRAHIGH VACUUM 67-10 M15-79574
PRESSURE DEPENDENCE OF HIGH-TEMPERATURE CREEP IN SINGLE CRYSTALS OF INDIUM 67-12 M14-82375

INDIUM, SOLUBILITY
EVIDENCE FOR INTERSTITIAL COBALT IN INDIUM BY MOSSBAUER SPECTROSCOPY 67-09 M14-77163
THE SOLUBILITY OF INDIUM IN LIQUID SODIUM 67-12 M14-82875

INDIUM, SUPERCONDUCTIVITY
SIZE EFFECT IN THE INTERMEDIATE STATE THERMAL RESISTIVITY MAXIMA IN INDIUM AND LEAD 67-01 M16-57545
MAXIMUM CRITICAL MAGNETIC FIELDS IN SUPERCONDUCTING METALS 67-01 M16-58169
CRITICAL MAGNETIC FIELDS IN SUPERCONDUCTING FILMS OF INDIUM 67-02 M16-60527
ULTRASONIC STUDIES OF THE SUPERCONDUCTIVITY OF DOPED TIN 67-02 M16-60530
MAGNETIC PROPERTIES OF THIN FILMS OF SOFT SUPERCONDUCTORS 67-02 M16-60593
TUNNELING INVESTIGATION OF ENERGY-GAP ANISOTROPY IN SUPERCONDUCTORS 67-04 M16-66511
SUPERCONDUCTING TRANSITIONS IN BODY-CENTERED CUBIC THALLIUM-INDIUM ALLOYS 67-05 M16-69520
THE INFLUENCE OF ALPHA IRRADIATION ON THE TRANSITION TEMPERATURE OF SUPERCONDUCTIVE TIN, INDIUM AND THALLIUM FOILS 67-10 M16-78497

INDIUM, TEMPERATURE MEASURING INSTRUMENTS
HIGH-PRECISION INDIUM RESISTANCE THERMOETERS 67-11 M19-80330

INDIUM, TERNARY SYSTEMS
THE TERNARY SYSTEM INDIUM TELLURIDE-INDIUM

ANTIMONIDE-ANTIMONY 67-02 M14-61594
STUDY OF THE ALSB-GASB-INSB SYSTEM 67-04 M13-68050
THE MICROSTRUCTURES OF TERNARY EUTECTIC ALLOYS IN THE SYSTEMS CD-SN---PB, IN, TL--, AL-CU---MG, ZN, AG--, AND ZN-SN-PB 67-09 M13-76678
THERMODYNAMIC PROPERTIES OF INDIUM-TIN-ANTIMONY LIQUID ALLOYS 67-10 M15-78747
CHEMICAL BOND AND STRUCTURE OF THE TERNARY COMPOUND INASTE 67-11 M01-80234
PRIMARY SOLID-SOLUTION PHASE BOUNDARY IN SILVER CORNER OF SILVER-CADMIUM-INDIUM TERNARY SYSTEM 67-12 M14-82758

INDIUM, THERMAL PROPERTIES
THERMAL RELAXATION OF INDIUM FILMS ON INSULATING SUBSTRATES BETWEEN 4 AND 300 K 67-01 M15-57114
THE ABSOLUTE THERMOELECTRIC POWER OF LIQUID METALS 67-01 M15-57972
THE HEAT OF MIXING OF SB WITH B-METALS. PT. 2. THE IN-TL SYSTEM 67-06 M15-71599
THERMAL EXPANSION AT LOW TEMPERATURES OF ANISOTROPIC METALS. INDIUM 67-12 M16-83403

INDIUM, THIN FILMS
OPTICAL PROPERTIES OF IN THIN FILMS 67-04 M15-67729

INDIUM, TRANSPORT PROPERTIES
THE MECHANISM OF IONIC MOBILITY IN MOLTEN METALS 67-02 M15-59932
MECHANISM OF IONIC MOBILITY IN LIQUID METALS 67-07 M15-72587
DIFFUSION AND ELECTRIC TRANSPORT OF INDIUM AND SILVER ALONG DISLOCATIONS IN SILICON 67-10 M14-79474
FERMI SURFACE OF IN UNDER HYDROSTATIC PRESSURE 67-10 M16-79361
ANOMALOUS SKIN EFFECT IN TIN AND INDIUM 67-10 M16-79412
HALL COEFFICIENT OF LIQUID METALS HG, GA, IN, AND SN, AND OF IN2BI AND HG-SN ALLOYS 67-11 M15-81049

INDIUM, ULTRASONICS
ELECTRONIC CONTRIBUTION TO THE NORMAL STATE ULTRASONIC ATTENUATION IN INDIUM 67-01 M16-57958

INDIUM, X RAY ANALYSIS
AN X-RAY DIFFRACTION INVESTIGATION OF LIQUID INDIUM 67-01 M13-57947

INDIUM BASE ALLOYS, ATOMIC PROPERTIES
KNIGHT SHIFTS IN LIQUID BINARY ALLOYS CONTAINING DIVALENT METALS 67-07 M16-73492

INDIUM BASE ALLOYS, CRYSTAL LATTICES
LATTICE PARAMETER ANOMALIES IN INDIUM-CADMIUM SOLID SOLUTIONS 67-11 M16-80187

INDIUM BASE ALLOYS, ELECTRICAL PROPERTIES
THE EFFECT OF PRESSURE ON THE RESISTIVITY AND THERMOELECTRIC POWER OF LIQUID MERCURY-INDIUM ALLOYS 67-02 M15-60807
THE EFFECT OF TRANSITION METAL IMPURITIES ON THE RESIDUAL RESISTIVITY OF AL, ZN, IN AND SN 67-03 M15-65687

INDIUM BASE ALLOYS, MAGNETIC PROPERTIES
THE CRITICAL FIELDS OF SUPERCONDUCTING THIN FILMS OF TIN AND INDIUM ALLOYS 67-03 M16-65736

INDIUM BASE ALLOYS, MECHANICAL PROPERTIES
CHARACTERISTICS OF PLASTIC DEFORMATION OF INDIUM AND ITS ALLOYS 67-02 M17-62086

INDIUM BASE ALLOYS, MELTING
IMMISCIBLE BEHAVIOR IN THE IRON-INDIUM SYSTEM 67-07 M13-73856

INDIUM BASE ALLOYS, MICROSTRUCTURE
QUANTITATIVE, METALLOGRAPHICAL ANALYSIS OF TEXTURE IN METALS 67-10 M13-79203

INDIUM BASE ALLOYS, PHASE TRANSFORMATIONS
INDIUM SELENIDE IN2SE3 67-01 M14-57646

INDIUM BASE ALLOYS, PHYSICAL PROPERTIES
SUPERCONDUCTING FLUXLINE PINNING BY TWIN BOUNDARIES 67-02 M15-61536

INDIUM BASE ALLOYS, SPECTROSCOPY
EMISSION MICROSPECTROSCOPY USED FOR ANALYZING ALLOYS FOR SEMICONDUCTOR DEVICES 67-09 M19-76578

INDIUM BASE ALLOYS, SUPERCONDUCTIVITY
MAGNETIC PROPERTIES OF THIN FILMS OF SOFT SUPERCONDUCTORS 67-02 M16-60593

INDIUM BASE ALLOYS, SUPERCONDUCTORS
SECOND-KIND SUPERCONDUCTIVITY OF INDIUM-LEAD ALLOYS 67-03 M16-65635
NONLINEAR AND NONLOCAL EFFECTS ON THE CRITICAL MAGNETIC FIELD FOR SUPERCONDUCTING IN-SN ALLOYED FILMS 67-08 M16-75081

INDIUM BASE ALLOYS, THERMAL PROPERTIES
THERMOELECTRIC POWER OF SOME METALS AND ALLOYS IN THE LIQUID STATE 67-11 M15-81047

INDIUM BASE ALLOYS, TRANSPORT PROPERTIES
EFFECT OF TEMPERATURE ON THE HALL COEFFICIENT OF INDIUM AND INDIUM-RICH SOLID SOLUTIONS 67-05 M16-69753

INDIUM COMPOUNDS, ACOUSTIC PROPERTIES
MAGNETO-ACOUSTIC EFFECTS IN N-INSB AT 9 GHZ 67-04 M16-66798

INDIUM COMPOUNDS, ATOMIC PROPERTIES
MECHANISM OF ELECTRON SCATTERING IN IN2O3 FILMS 67-06 M16-71775

INDIUM COMPOUNDS, BAND THEORY
BAND STRUCTURE OF GAAS, GAP, INP AND ALSB.. THE K.P METHOD 67-04 M16-66741
EVIDENCE FOR ABSENCE OF ELECTRONS FROM CONDUCTION BAND IN N-INSB AT LOW TEMPERATURES 67-08 M16-75003
RADIATIVE RECOMBINATION IN N-TYPE INP 67-09 M16-77176

INDIUM COMPOUNDS, BINARY SYSTEMS
INFLUENCE OF ORDERING ON THE PROPERTIES OF SOLID SOLUTIONS OF THE SYSTEM --HGSE--3X---IN2SE3--1-X 67-06 M16-70982
THE QUASI-BINARY SECTIONS SB2TE3-IN2TE3, BI2TE3-IN2TE3 AND SB2SE3-IN2SE3 67-11 M14-80381

INDIUM COMPOUNDS, CLEANING
STUDY OF IMPURITY HETEROGENEITIES IN INSB BY MEANS OF A PERMANGANATE ETCHANT 67-06 M16-70669

INDIUM COMPOUNDS, CRYSTAL GROWTH
CRYSTALLIZATION OF INDIUM PHOSPHIDE FROM THE GASEOUS PHASE 67-01 M14-57655
GROWTH OF INAS WHISKERS IN WURTZITE STRUCTURE 67-02 M14-59067
ORIENTED GROWTH OF SEMICONDUCTORS. PT. 4. VACUUM DEPOSITION OF EPITAXIAL INDIUM ANTIMONIDE 67-03 M14-65874
APPARATUS FOR GROWING SINGLE CRYSTALS OF UNSTABLE SEMICONDUCTING COMPOUNDS 67-04 M14-66034
PREPARATION OF INAS AND GAAS SINGLE CRYSTALS 67-04 M14-67441
PREPARATION OF EPITAXIAL GAXIN1-XAS 67-05 M14-68623
DETERMINATION OF MICROSCOPIC RATES OF GROWTH IN SINGLE CRYSTALS 67-06 M14-72181

INDIUM COMPOUNDS, CRYSTAL LATTICES
CRYSTAL STRUCTURES OF ALPHA- AND BETA-INDIUM SELENIDE, IN2SE3 67-02 M13-59479
INSB AND INAS LATTICE CHANGE DURING ZINC DIFFUSION 67-09 M14-77456
DISTRIBUTION AND DENSITY OF DISLOCATIONS IN BENT AND ANNEALED GALLIUM ARSENIDE AND INDIUM ANTIMONIDE CRYSTALS 67-10 M13-79246

INDIUM COMPOUNDS, DIFFUSION
DIFFUSION OF LI IN INSB 67-02 M16-60520
DIFFUSION OF CADMIUM IN INDIUM ARSENIDE 67-03 M14-65457
DIFFUSION AND SOLUBILITY OF CADMIUM IN INDIUM ARSENIDE 67-05 M16-69395
ELECTRICAL AND TRANSPORT PROPERTIES OF CU IN INAS 67-10 M15-79968

INDIUM COMPOUNDS, ELECTRICAL PROPERTIES
HIGH PRESSURE PHASE IN METALLIC INDIUM ANTIMONIDE 67-03 M14-65147
MAGNETORESISTANCE IN THE EXTREME QUANTUM LIMIT IN N-TYPE INSB 67-03 M16-65109
HIGH PURITY EXPITAXIAL INAS 67-06 M15-70084
THE ROLE OF SURFACE TREATMENT IN THE FIELD EFFECT ANOMALY OF N-TYPE INSB AT HIGH MAGNETIC FIELDS 67-06 M15-71025
THE EFFECT OF THE SURFACE ON THE ELECTRICAL CONDUCTIVITY OF THIN INSB LAYERS 67-06 M16-69959
THE THERMAL PRODUCTION OF ACCEPTORS IN INSB 67-06 M16-69960
CARRIER RECOMBINATION IN INAS 67-07 M16-74059
FREEZE-OUT EFFECTS, HOT ELECTRON EFFECTS, AND SUBMILLIMETER PHOTOCONDUCTIVITY IN INSB 67-07 M16-74206
MAGNETORESISTANCE 67-07 M16-74207
ELECTRICAL RESISTIVITY OF INDIUM-ANTIMONY ALLOY FILMS PREPARED BY VACUUM EVAPORATION 67-10 M15-78775
PHOTOCONDUCTIVE DECAY IN N-TYPE POLYCRYSTALLINE FILMS OF INDIUM ARSENIDE 67-10 M16-79170

INDIUM COMPOUNDS, EMISSIVITY

PHOTOSENSITIVE FIELD ELECTRON EMISSION FROM IN2S3
67-07 M16-72961
INDIUM COMPOUNDS, IRRADIATION
PREPARATION OF HOMOGENEOUS N-TYPE INSB BY THERMAL-NEUTRON IRRADIATION 67-09 M16-77450
INDIUM COMPOUNDS, MAGNETIC PROPERTIES
SHIFT OF THE MAGNETORESISTANCE OSCILLATION MAXIMA DUE TO AN ELECTRIC FIELD IN INSB
67-04 M16-67366
INTERBAND MAGNETOABSORPTION IN INAS AND INSB
67-06 M16-69920
RESISTANCE OF P-INSB IN A STRONG LONGITUDINAL MAGNETIC FIELD 67-10 M15-79473
ACOUSTOELECTRIC OSCILLATIONS WITH FIELD-DEPENDENT PERIOD IN INDIUM ANTIMONIDE 67-12 M15-83010
INDIUM COMPOUNDS, MICROSTRUCTURE
THE METALLIC ETCHING OF INDIUM ANTIMONIDE AND GERMANIUM 67-09 M13-76631
INDIUM COMPOUNDS, OPTICAL PROPERTIES
LANDAU LEVELS AND MAGNETO-ABSORPTION IN INSB
67-03 M16-65033
FAR INFRARED LATTICE BANDS IN INDIUM ANTIMONIDE
67-04 M16-66743
LOCALIZED MODES OF SUBSTITUTIONAL IMPURITIES IN INTERMETALLIC COMPOUNDS 67-04 M16-66744
MAGNETO-OPTICAL STUDY OF HYDROGENIC DONOR IMPURITY STATES IN INSB 67-04 M16-66758
ELECTROREFLECTANCE MEASUREMENTS ON GAXIN1-XAS ALLOYS 67-11 M16-80326
INDIUM COMPOUNDS, PHASE TRANSFORMATIONS
THE LATTICE OF HEAVY METAL PHASES IN INP
67-08 M14-75901
NEW PHASE TRANSFORMATION IN INSB AT HIGH PRESSURE AND HIGH TEMPERATURE 67-09 M14-77429
INDIUM COMPOUNDS, PHASES /STATE OF MATTER/
NEW HIGH PRESSURE PHASES HAVING THE CORUNDUM STRUCTURE 67-04 M13-67364
THE THERMODYNAMIC PROPERTIES OF SEVERAL SOLID PHASES OF THE COMPOUND, INSB 67-12 M15-82973
INDIUM COMPOUNDS, PHOTOELECTRIC EFFECTS
SELECTIVE INSB PHOTOCELL WITH CONTROLLABLE SPECTRAL CHARACTERISTICS 67-10 M16-79455
INDIUM COMPOUNDS, PHYSICAL PROPERTIES
ON THE MIXED MECHANISM OF ELECTRON SCATTERING IN INSB CRYSTALS 67-05 M15-69789
MILLIMETER WAVE RADIATION FROM INDIUM ANTIMONIDE
67-07 M16-73999
DISSOCIATION PRESSURE OF INDIUM ARSENIDE, GALLIUM ARSENIDE, AND GALLIUM PHOSPHIDE
67-11 M15-80161
INDIUM COMPOUNDS, RADIATION EFFECTS
FORMATION OF STRUCTURE DEFECTS IN LOW-TEMPERATURE X-IRRADIATION OF INDIUM ANTIMONIDE
67-09 M16-76778
EVIDENCE FOR DAMAGE REGIONS IN SI, GAAS, AND INSB SEMICONDUCTORS BOMBARDED WITH HIGH-ENERGY NEUTRONS 67-10 M16-79168
INDIUM COMPOUNDS, REACTIONS /CHEMICAL/
LOW-TEMPERATURE PHOTO-CHEMICAL REACTIONS IN IN4S5 SINGLE CRYSTALS 67-06 M14-71756
STUDY OF THE INTERACTION OF INDIUM WITH ITS TRICHLORIDE 67-06 M15-72114
INDIUM COMPOUNDS, SEMICONDUCTORS
SCATTERING MECHANISMS IN INDIUM ANTIMONIDE AT LOW TEMPERATURES 67-01 M16-58780
LOW-TEMPERATURE GAMMA IRRADIATION AND ANNEALING OF INDIUM ANTIMONIDE 67-03 M16-65629
RESISTANCE ANOMALY OF INSB AT VERY LOW TEMPERATURES
67-06 M16-72148
QUANTUM OSCILLATIONS OF THE NERNST-ETTINGSHAUSEN EFFECT IN INDIUM ARSENIDE 67-08 M16-75246
THE DRIFTED MAXWELLIAN DISTRIBUTION FUNCTION IN INSB 67-08 M16-75248
ON THE NATURE OF DAMAGES IN INDIUM ANTIMONIDE PRODUCED BY GAMMA- AND X-IRRADIATION
67-12 M16-82019
INDIUM COMPOUNDS, SINGLE CRYSTALS,
HEAT TREATMENT OF INSB CRYSTALS WITH DIFFERENT DISLOCATION DENSITIES 67-11 M15-80237
INDIUM COMPOUNDS, SOLUBILITY
THE SOLUBILITY OF IMPURITIES IN IN2TE3
67-04 M14-66028
INDIUM COMPOUNDS, SUPERCONDUCTIVITY
SUPERCONDUCTING INDIUM ANTIMONIDE
67-03 M16-65146
INDIUM COMPOUNDS, TERNARY SYSTEMS
STUDY OF THE A1SB-GASB-INSB SYSTEM
67-08 M14-75080
INDIUM COMPOUNDS, THERMAL PROPERTIES
DETERMINATION OF THE HEAT OF FORMATION OF INDIUM AND GALLIUM PHOSPHIDES BY COMBUSTION IN A CALORIMETER BOMB 67-11 M15-80162
INVESTIGATION OF THE THERMAL CONDUCTIVITY OF INSB-GASB SOLID SOLUTIONS 67-11 M15-80229
INDIUM COMPOUNDS, THERMODYNAMICS
THERMODYNAMIC ASPECTS OF THE TEMPERATURE-PRESSURE PHASE DIAGRAM OF INTE 67-01 M15-57115
INDIUM COMPOUNDS, TRANSPORT PROPERTIES
OSCILLATORY PHOTOCONDUCTIVITY IN INSB
67-01 M15-58756
ELECTRICAL PROPERTIES OF ALPHA-IN2SE3
67-02 M15-59480
IONIZATION ENERGIES AND THEIR PRESSURE DEPENDENCE OF CU AND AG IN INSB 67-03 M16-65650
ELECTRICAL AND GALVANOMAGNETIC PROPERTIES OF SINGLE CRYSTAL INSB DENDRITES
67-03 M16-65770
FIELD EFFECT MEASUREMENTS ON THE A AND B --111-- SURFACES OF INDIUM ANTIMONIDE
67-03 M16-65805
GALVANOMAGNETIC PROPERTIES OF SURFACE LAYERS IN INDIUM ARSENIDE 67-04 M16-66764
NONLINEAR GALVANOMAGNETIC EFFECTS DUE TO HOT ELECTRONS IN N-TYPE INSB IN THE QUANTUM LIMIT
67-04 M16-66772
HIGH FIELD EFFECTS IN N-TYPE INSB
67-04 M16-66774
TRANSPORT PROPERTIES AND LOCALIZED SPINS IN N-TYPE INSB 67-04 M16-66786
THE EFFECT OF HYDROSTATIC PRESSURE ON THE TRANSPORT PROPERTIES OF INSB 67-04 M16-67028
RESISTANCE ANOMALY AND NEGATIVE MAGNETORESISTANCE IN N-TYPE INSB AT VERY LOW TEMPERATURES
67-05 M15-69820
DIFFUSION AND ELECTRICAL TRANSPORT OF ZINC IN INDIUM ARSENIDE 67-05 M16-69383
NEGATIVE LONGITUDINAL MAGNETORESISTANCE OF N-TYPE INAS 67-06 M16-70874
ANNEALING EFFECTS OF LI-SATURATED P-TYPE INSB
67-06 M16-71551
MECHANISM OF SCATTERING OF ELECTRONS IN IN2O3 FILMS
67-06 M16-71923
SOME KEY FEATURES OF 3-V COMPOUNDS
67-07 M16-74202
PREPARATION OF HIGH-MOBILITY THIN FILMS OF INDIUM ANTIMONIDE 67-08 M14-75161
RECOMBINATION CENTERS IN INSB 67-08 M15-75119
MICROWAVE EMISSION FROM N-TYPE INDIUM ANTIMONIDE AT 4.2 AND 77 K 67-09 M16-77010
CONDUCTANCE AND CAPACITANCE OF 6 DEGREE TILT BOUNDARIES IN P-TYPE INSB 67-09 M16-77448
PREPARATION AND PROPERTIES OF EPITAXIAL INAS
67-09 M16-78061
GAAS-INSB GRADED-GAP HETEROJUNCTION
67-09 M16-78062
MICROWAVE FARADAY ROTATION IN SEMICONDUCTOR PLASMAS IN THE HIGH MAGNETIC FIELD LIMIT
67-10 M16-79365
NONOHMIC PROPERTIES IN N-TYPE INSB
67-12 M15-81767
INDUCTANCE
NEGATIVE DIFFERENTIAL RESISTANCE AND INDUCTIVE EFFECTS IN SILICON CARBIDE 67-06 M16-71761
NEGATIVE DIFFERENTIAL RESISTANCE AND INDUCTIVE EFFECTS IN SILICON CARBIDE 67-06 M16-71919
INDUCTION /ELECTROMAGNETIC/
SEE ELECTROMAGNETIC INDUCTION
INDUCTION /MAGNETIC/
SEE MAGNETIC INDUCTION
INDUCTION BRAZING
INDUCTION HEATING IN FERROUS AND NONFERROUS METALLURGY 67-01 M01-57130
BRAZING OF TITANIUM WITH LI-CONTAINING SILVER
67-04 M11-67590
INDUCTION COILS
ASEA-SKF--VACUUM DEGASSING PROCESS
67-08 M04-74655
INDUCTION COILS, METAL WORKING
BENDING WITHOUT MANDRELS 67-06 M08-71403
INDUCTION FURNACES
SEE ELECTRIC INDUCTION FURNACES
INDUCTION HARDENING
INDUCTION HEATING IN FERROUS AND NONFERROUS METALLURGY 67-01 M01-57130
USE OF INDUCTION HEATING FOR QUENCHING SWAGING DIES
67-01 M10-58089
RESIDUAL STRESSES AND FATIGUE STRENGTH OF INDUCTION-HARDENED SHAFTS WITH TRANSITIONS IN

INDUCTION HARDENING

CROSS SECTION 67-01 M17-57923
INDUCTION HARDENING OF AUTOMOBILE HALF AXLES 67-02 M10-60849
INDUCTION HEATING OF CALIBRATED BALL BEARING STEEL 67-02 M10-60852
ACCELERATED INDUCTION TEMPERING OF OIL DRILL PIPES FROM 36G2S AND 38KHNM ALLOY STEELS 67-02 M10-60855
HEAT TREATMENT OF STRUCTURAL STEELS AND OF TOOL STEELS 67-03 M10-65174
THE BASIC VARIETIES OF FAILURE IN MACHINE GEARS 67-04 M17-66631
HEAT TREATMENT OF CAST IRON SURFACES 67-05 M10-69345
AUTOMATIC CONTROL OF THE PROCESS OF FULL THICKNESS INDUCTION HEATING 67-06 M10-70350
HEAT TREATMENT OF STRUCTURAL STEELS AND OF TOOL STEELS. PT. 2 67-06 M10-70855
SURFACE HARDENING OF REINFORCING STEEL 67-06 M10-70928
A TECHNICAL AND ECONOMIC COMPARISON OF THE SURFACE-HARDENING OF GUIDEWAYS 67-06 M10-72054
PRODUCTION EQUIPMENT FOR LARGE GEARS 67-07 M08-74003
THE INDUCTION HEATING OF STEEL PARTS 67-07 M10-72432
DEFECTS IN THE SURFACE HARDENING OF MACHINE PARTS--THEIR CAUSES AND PREVENTION 67-07 M10-72606
THE PROBLEM OF STRENGTHENING LARGE SIZE COMPRESSOR CRANKSHAFTS 67-07 M10-73199
A STUDY OF PACK CARBURIZING AND SOME CASE HARDENING TECHNIQUES ON 3 PER CENT NI, 1 PER CENT CR CASE HARDENING STEEL 67-07 M10-73201
SURFACE QUENCHING AFTER BULK INDUCTION HEATING--A PROMISING METHOD OF HEAT TREATING STEEL 67-08 M10-74971
INDUCTION HARDENING OF LARGE GEARS 67-08 M10-75558
HIGH-FREQUENCY HEATING AND QUENCHING OF FERRITIC-PEARLITIC GRAY CAST IRON 67-08 M10-76036
SURFACE QUENCHING IN THE CASE OF BULK INDUCTION HEATING OF ZIL-130 AXLES 67-08 M10-76107
HEAT TREATMENT OF CALIBRATED BALL BEARING STEEL WITH HIGH-FREQUENCY CURRENT 67-08 M10-76110
ACCELERATION OF TEMPERING OF 36G2S AND 38KHNM STEEL PIPES BY INDUCTION HEATING 67-08 M10-76113
EQUIPMENT FOR INDUCTION HARDENING 67-09 M10-76467
COMPRESSED AIR AS A COOLANT FOR SURFACE QUENCHING 67-09 M10-77404
INDUCTION HARDENING 67-09 M10-78064
SUBMERGED INTENSIFIER GEAR HARDENING FOR LOW DISTORTION 67-10 M10-79525
LOW-DISTORTION GEAR HARDENING 67-10 M10-80031
REVERSE BENDING FATIGUE STRENGTH OF ALLOYED QUENCHED AND HARDENED STEELS AFTER INDUCTIVE SURFACE HARDENING 67-11 M17-80102
HEAT TREATING MAGNESIUM CAST IRON WITH HIGH-FREQUENCY HEATING 67-12 M10-82621
INDUCTION SURFACE HARDENING OF RAILROAD RAILS AND EQUIPMENT 67-12 M10-83107
A METHOD OF HEAT TREATING CAMSHAFTS 67-12 M10-83387

INDUCTION HARDENING, AUTOMATION
AUTOMATIC INDUCTION HARDENING OF LARGE GEARS 67-09 M10-76903

INDUCTION HEATING
INDUCTION HEATING IN FERROUS AND NONFERROUS METALLURGY 67-01 M01-57130
THE THIN-WIRE WAY TO HEAT TREATING 67-01 M10-58014
CALCULATIONS IN INDUCTION HEATING OF ROLLED SHEET 67-01 M10-58051
CALCULATING A CYLINDRICALLY SHIELDED SYSTEM FOR INDUCTION HEATING 67-01 M10-58196
POSSIBILITIES OF USING INDUCTION HEATING AT AUDIOFREQUENCIES IN APPARATUS TO MANUFACTURE SEMICONDUCTING MATERIALS BY PULLING FROM THE MELT 67-01 M14-57686
EFFECT OF WELDING ON MECHANICAL PROPERTIES OF HEAT TREATED LOW-ALLOY STEEL 67-01 M17-57387
ON THE FATIGUE STRENGTH OF INDUCTION HARDENED LARGE-SIZE PRESS-FITTED SPECIMEN 67-01 M17-57587
APPARATUS FOR PRODUCING RAPID TEMPERATURE CHANGES DURING MECHANICAL BEHAVIOR TESTS 67-01 M17-58769
RECENT DEVELOPMENTS IN ELECTRIC REHEAT FURNACES 67-02 M07-59150
ROLLING ROUND SHAPES IN TITANIUM ALLOYS 67-02 M07-61285
RAPID INDUCTION HEATING OF STEEL SHEETS 67-02 M10-59682
TEMPERATURE DISTRIBUTION DURING TEMPERING INDUCTION HEATING OF STAND PIPES 67-02 M10-59685
RESEARCH INTO THE EFFECTS OF INDUCTION HEATING DURING NORMALIZATION ON THE MICROSTRUCTURE AND PROPERTIES OF BUTT WELDED JOINTS IN DRILL PIPE 67-02 M10-59790
STUDY OF THE KINETICS OF INDUCTION HEATING OF POROUS IRON 67-02 M10-60071
KINETICS OF AUSTENITE FORMATION IN MAGNESIUM CAST IRON DURING INDUCTION HEATING 67-02 M14-62004
KINETICS OF INDUCTION HEATING OF SILICON-ALLOYED STEEL 67-03 M10-65968
POTENTIAL OF INDUCTION HEATING 67-04 M01-66399
INVESTIGATION OF KH18N10T STAINLESS STEEL TUBES BENT BY INDUCTION HEATING 67-04 M08-66592
AN APPARATUS FOR THE INDUCTION ANNEALING OF COPPER WIRE 67-04 M10-66101
HINTS FOR THE USE OF INDUCTION HEATING IN SURFACE HARDENING 67-04 M10-66558
SELECTION OF THE HEATING TEMPERATURE OF STEEL FOR SURFACE HARDENING 67-05 M10-69274
INFLUENCE OF INDUCTION HEATING ON THE FINE STRUCTURE OF AUSTENITIC STAINLESS STEEL 67-05 M13-68379
MCLOUTH STEEL INSTALLING SLAB INDUCTION HEATING FACILITY FOR CONTINUOUS OPERATION 67-06 M04-71004
AUTOMATIC CONTROL OF THE PROCESS OF FULL THICKNESS INDUCTION HEATING 67-06 M10-70350
INDUCTION TEMPERING OF 60S2 STEEL 67-06 M10-70373
HEATING IN THE DROP FORGE. PT. 3. THE CASE FOR ELECTRICITY 67-07 M07-72761
THE INDUCTION HEATING OF STEEL PARTS 67-07 M10-72432
HIGH TEMPERATURE GAS CARBURIZING BY INDUCTION HEATING 67-07 M10-72534
SOME ASPECTS OF AUSTENITE FORMATION KINETICS IN INDUCTION HEATED MAGNESIUM-TREATED CAST IRON 67-08 M14-76087
DECARBURIZING AND SCALING OF TOOL STEEL BILLETS WHEN HEATED IN INDUCTION FURNACES 67-09 M10-76412
MECHANIZED ELECTRIC HEATING OF CRANKSHAFT BILLETS 67-09 M10-76413
ISOTHERMAL QUENCHING OF HIGH-STRENGTH CAST IRON WITH INDUCTION HEATING 67-09 M10-77412
THE IMPORTANCE OF INDUSTRIAL ELECTRIC HEATING TECHNOLOGY IN THE AUTOMATION OF THE FORGING OF MASS-PRODUCED AUTOMOTIVE PARTS 67-10 M07-78641
EXISTING AND FUTURE DESIGNS OF SLAB REHEATING FURNACES 67-10 M10-78332
SELECTION OF A METHOD OF HEATING CYLINDRICAL COMPONENTS WITH CHAMFERS PRIOR TO CASE HARDENING 67-10 M10-78350
IMPROVING THE FATIGUE STRENGTH OF CHEMICALLY NICKEL-PLATED STEEL BY SURFACE HEATING WITH HIGH-FREQUENCY CURRENT 67-11 M10-81293
INCREASING THE LIFE OF THE WORKING ROLLS OF COLD ROLLING MILLS 67-12 M07-81870
ULTRASONIC HEATING OF METALS 67-12 M13-82150

INDUCTION HEATING, AUTOMATION
INVESTIGATION OF AN INDUCTION HEATING FURNACE FOR AUTOMATIC FORGING INSTALLATIONS 67-09 M10-77830

INDUCTION MELTING
INDUCTION HEATING IN FERROUS AND NONFERROUS METALLURGY 67-01 M01-57130
INTRODUCTION AND OPERATION OF A 15 TON GAS-FIRED FURNACE FOR MELTING ALUMINUM AND ALUMINUM ALLOYS 67-01 M03-57154
INDUCTION MELTING FOR PRECISION-INVESTMENT CASTING 67-01 M06-58541
INDUCTION FURNACE MELTING OF DUCTILE IRON 67-01 M06-58677
MELTING AND WORKING DENTAL GOLD ALLOYS 67-02 M06-58913
MELTING AND WORKING GOLD ALLOYS 67-02 M06-58915
INDUCTION MELTING FOR SPHEROIDAL GRAPHITE IRON

PRODUCTION 67-02 M06-60523
PRODUCING SYNTHETIC CAST IRONS FROM SHAVINGS 67-02 M06-61801
EFFECT OF MELTING METHODS ON THE PROPERTIES OF IRON-ALUMINIUM ALLOYS 67-02 M15-60290
MODERN IRON MELTING TECHNIQUES AND THEIR APPLICATION 67-03 M06-65003
CONTROLLED-ENVIRONMENT MELTING 67-03 M06-65067
THE MELTING OF BRASS WITH A HIGH ZN CONTENT IN A CORELESS LOW-FREQUENCY INDUCTION FURNACE 67-03 M06-65353
EXPERIENCE IN SEMICONTINUOUS CASTING OF ALUMINUM BRONZES IN CZECH METALS PLANTS 67-04 M03-67856
MELTING OF DUCTILE IRON IN INDUCTION FURNACES IN SWEDEN 67-04 M04-66281
MECHANISM OF ALLOYING ELEMENTS EVAPORATION DURING THE VACUUM INDUCTION MELTING OF STEEL 67-04 M04-66731
MELTING OF NODULAR CAST IRON IN INDUCTION FURNACE 67-04 M06-68017
INDUCTION MELTING IN THE PRODUCTION OF SPHEROIDAL GRAPHITE CAST IRON 67-05 M06-68924
STUDY ON THE OPERATION OF A LOW-FREQUENCY ELECTRIC FURNACE 67-05 M06-68952
CORE-TYPE INDUCTION FURNACE WITH THE CORE BUILT INTO THE MELT 67-05 M06-69311
CORE-TYPE INDUCTION FURNACES IN GRAY CAST IRON FOUNDRIES 67-05 M06-69312
CRUCIBLE LININGS FOR CORELESS ELECTRIC INDUCTION FURNACES 67-05 M06-69887
MELTING PLANT FOR SPHEROIDAL GRAPHITE IRON 67-06 M06-70023
EFFECTS OF INDUCTION MELTING ON THE METALLURGY AND CAPACITY OF A NONFERROUS METAL FOUNDRY 67-06 M06-71094
EFFECT OF THE REFRACTORY LINING ON THE PROPERTIES OF CAST IRON 67-06 M06-71187
INDUCTION MELTING IN THE FOUNDRY 67-06 M06-71598
PROPERTIES OF 20 PER CENT-CHROMIUM STEEL, PRODUCED IN FURNACES WITH ACID AND BASIC LINING 67-08 M06-75200
FOUNDRY MELTING--CUPOLA VS INDUCTION VS ARC 67-08 M06-75529
EVALUATION OF CAST IRON MELTING IN THE CUPOLA, ARC FURNACE AND INDUCTION FURNACE 67-08 M06-75748
SPECIAL FEATURES OF SMELTING ALUMINUM IN CHANNEL INDUCTION FURNACES 67-09 M03-76873
PRODUCTION OF SYNTHETIC CAST IRONS FROM SWARF 67-09 M06-78073
THERMODYNAMIC CONSIDERATIONS ON MELTING HIGH-PURITY NICKEL AND NICKEL ALLOYS 67-10 M03-78316
ELECTROFLUX REMELTING IMPROVES PROPERTIES OF INCONEL 718 67-10 M03-78634
THE STRUCTURE AND PROPERTIES OF EI437B ALLOY MELTED IN A VACUUM INDUCTION FURNACE 67-10 M17-78932
MELTING AND CASTING 67-11 M03-80476
THE MELTING OF NI-CR BASE ALLOYS IN A HIGH VACUUM 67-11 M03-80842
CHANGES IN VARIOUS MECHANICAL AND SERVICE PROPERTIES THROUGH REMELTING BY SPECIAL METHODS 67-11 M04-80201
VACUUM MELTED SPECIAL ALLOYS FOR AEROSPACE APPLICATIONS 67-11 M04-80564
THE FORMATION OF PRIMARY DEOXIDATION PRODUCTS IN STEEL. PT. 1. THE DEOXIDATION OF UNALLOYED STEELS WITH AL 67-11 M04-81374
THE INFLUENCE OF INDUCTION MELTING ON THE METALLURGY AND THE PRODUCTION CAPACITY OF THE FOUNDRY 67-11 M06-80369
FURNACES IN USE--RECENT INSTALLATIONS 67-11 M10-81492
NONMETALLIC INCLUSIONS IN VACUUM INDUCTION SMELTED E1437B ALLOY 67-11 M13-81415
MELTING STEEL IN ACID-LINED INDUCTION FURNACES 67-12 M04-82084

INDUCTION WELDING
SEE ALSO PRESSURE INDUCTION WELDING
INDUCTION HEATING IN FERROUS AND NONFERROUS METALLURGY 67-01 M01-57130
RADIOFREQUENCY WELDING OF TUBES OF AVERAGE DIAMETERS 67-02 M11-59681
DRAWN-ARC CAPACITOR DISCHARGE--A MAJOR NEW PRODUCTION TOOL 67-02 M11-61578
BIMETAL TUBES WELDED IN VOLUME 67-02 M11-61856
POTENTIAL OF INDUCTION HEATING 67-04 M01-66399
CONTROL OF PARAMETERS OF RADIO-FREQUENCY WELDING OF TUBES 67-04 M11-67015
PRODUCING TUBES ON A 72-219 ELECTROWELDING UNIT 67-05 M11-68329
RING-TYPE INDUCTOR FOR HIGH-FREQUENCY PIPE WELDING 67-05 M11-68412
RW CLOSER, THINNER FINS FOR BETTER TUBE HEAT EXCHANGE 67-05 M11-68432
INDUCTION WELDING OF METALS UNDER VACUUM 67-05 M11-68764
OPERATION OF A UNIT FOR CONTINUOUS REDUCTION OF ELECTROWELDED PIPES 67-06 M07-71257
THE HIGH-FREQUENCY INDUCTION WELDING OF TUBES 67-06 M11-72059
PRODUCING TUBES ON ELECTRICAL TUBE-WELDING UNIT 73-219 67-07 M11-72857
EXPERIENCE WITH PLANT FOR CONTINUOUS REDUCTION OF ELECTRIC-WELDED TUBES 67-08 M07-75726
MONITORING THE PARAMETERS IN RADIO FREQUENCY WELDING OF TUBES 67-08 M11-74774
STUDY OF THE EFFECT OF CERTAIN HEATING PARAMETERS ON THE QUALITY OF WELD SEAM IN TUBES OBTAINED BY CONTINUOUS FURNACE BUTT WELDING 67-08 M11-75013
STUDY OF HEATING STRIP DURING CONTINUOUS FURNACE WELDING OF TUBES 67-08 M11-75014
THE CONVERSION OF EXISTING TUBE WELDING INSTALLATIONS TO HIGH-FREQUENCY INDUCTION WELDING 67-08 M11-75672
APPARATUS WITH ROTATING CONTACT ROLLERS FOR RADIOFREQUENCY WELDING OF PIPES 67-09 M11-76843
PRODUCING TUBES ON INDUCTION WELDING MILLS WITH REDUCTION 67-09 M11-77635
RADIOFREQUENCY WELDING OF ULTRA-THIN-WALLED HELICAL-SEAMED TUBES 67-10 M11-78433
INVESTIGATION OF ROLL METAL PRESSURE AND TORQUE ON THE SPINDLES OF AN EXPERIMENTAL RADIO-FREQUENCY MILL 67-10 M11-78974
PRODUCTION OF TUBES IN MILLS WITH INDUCTION WELDING AND REDUCTION 67-11 M11-80923
CALCULATING THE HEATING OF THE EDGES OF A TUBULAR BILLET IN RADIOFREQUENCY WELDING 67-12 M11-81912
VERY THIN SPIRAL SEAM TUBES WELDED WITH CURRENT AT RADIO FREQUENCIES 67-12 M11-83431
INDUCTION WELDING, AUTOMATIC CONTROL
AUTOMATIC TEMPERATURE CONTROL DURING INDUCTION WELDING OF PIPES 67-09 M11-76856
INDUCTOVAC PROCESS
SEE INDUCTION MELTING
VACUUM MELTING
INDUSTRIAL FURNACES
SEE FURNACES
INDUSTRIAL GEMS, MECHANICAL PROPERTIES
THE FRICTION OF CLEAN CRYSTAL SURFACES 67-07 M17-73497
FRICTIONAL ANISOTROPY IN NONMETALLIC CRYSTALS 67-07 M17-73498
INDUSTRIAL WASTES, BENEFICIATION
THE CHEMICAL EXPLOITATION OF FE CARRIERS 67-06 M02-70079
INDUWELD PROCESS
SEE PRESSURE INDUCTION WELDING
INELASTIC COLLISIONS
SEE INELASTIC SCATTERING
INELASTIC DIFFRACTION
SEE INELASTIC SCATTERING
INELASTIC SCATTERING
FAST NEUTRON SCATTERING FROM BERYLLIUM, SODIUM, AND ALUMINUM 67-06 M16-70548
INELASTIC SCATTERING OF ELECTRONS IN BERYLLIUM AND LEAD FOR HIGH ANGLES OF INCIDENCE OF THE PRIMARY BEAM 67-06 M16-71768
INELASTIC SCATTERING OF ELECTRONS IN BERYLLIUM AND LEAD AT LARGE ANGLES OF INCIDENCE OF THE PRIMARY BEAM 67-06 M16-71913
CRYSTAL DYNAMICS OF COPPER 67-07 M16-73937
THE PHONON FREQUENCY DISTRIBUTION OF VANADIUM 67-07 M16-74057
LATTICE VIBRATIONS IN IRON AT 296K 67-08 M13-75001
EFFECT OF LIGHT ON THE NORMAL ELASTIC MODULUS OF GERMANIUM AND SILICON 67-09 M17-77065
SURFACE PLASMA OSCILLATIONS AS A TOOL FOR SURFACE EXAMINATIONS 67-10 M13-79557
LATTICE VIBRATIONS OF VANADIUM BY INELASTIC SCATTERING OF SLOW NEUTRONS 67-10 M16-78498
INELASTIC PROTON SCATTERING FROM ZR90 AND ZR92

INELASTIC SCATTERING
67-10 M16-78715
COMPARISON OF SPECTRA OF COLD NEUTRON SCATTERING IN AMORPHOUS AND CRYSTALLINE SELENIUM
67-10 M16-79444
INVESTIGATION OF INELASTIC NEUTRON SCATTERING BY A CRYSTAL WITH LIGHT IMPURITY ATOMS
67-10 M16-79463
INELASTIC SCATTERING OF LOW ENERGY ELECTRONS FROM SURFACES 67-10 M16-79558
INELASTIC ENERGY LOSSES IN COLLISIONS OF 40-90 KEV A PLUS IONS WITH SOLID AND GASEOUS CU TARGETS
67-11 M16-80935
INELASTICITY
SEE ELASTICITY
INERT ATMOSPHERES
CORROSION RESISTANCE OF GAS ARC CUT WELDED JOINTS IN STAINLESS STEELS 67-04 M18-67359
INERT GAS BRAZING
NEW PRODCUT DESIGNS MAKE GREATER USE OF BRAZING
67-08 M11-76181
INERT GAS WELDING
SEE ALSO GAS TUNGSTEN ARC WELDING
VACUUM SHIELDING OF METALS DURING WELDING
67-01 M11-57395
MANUAL ARGON-ARC WELDING OF JOINTS FROM THIN ELEMENTS 67-01 M11-58211
STUDY ON PREVENTIVE METHOD FOR WELD CRACKS OF 405 CLAD STEEL BY 13 CR STAINLESS STEEL ELECTRODE
67-01 M11-58698
THE NARROW-GAP MIG WELDING PROCESS FOR THICK STEEL PLATES 67-01 M11-58699
THE SIGNIFICANCE OF INERT-GAS WELDING IN THE PRODUCTION OF TUBE JOINTS 67-02 M11-58943
MIG WELDING OF JIS A2P7 ALUMINUM ALLOY
67-02 M11-59722
MECHANIZED DEVICES FOR WELDING WITH FILLED WELDING WIRES 67-02 M11-59969
REPAIR OF ALUMINIUM PATTERNS BY ARGON ARC WELDING
67-02 M11-60015
RECENT DEVELOPMENTS IN AUTOMATIC ARC WELDING IN NEUTRAL ATMOSPHERES 67-02 M11-60109
THICKEST HY-80 VESSEL TESTS SUB SAFETY SYSTEM
67-02 M11-61814
WELDING CU AND CU ALLOYS UNDER PROTECTIVE ATMOSPHERES 67-02 M11-61887
IMPROVING THE PROPERTIES OF WELDED JOINTS IN VNS2 STEEL 67-02 M17-60010
ARGON ARC WELDING OF THE ALUMINIUM COMPONENTS OF A HANGAR ROOF 67-05 M11-68273
NEW HORIZONS ON THE WELDING SCENE
67-07 M11-73862
THE ARCATOM WELDING METHOD AND ITS APPLICATIONS
67-08 M11-75674
METAL INERT GAS WELDING WITH PULSATING CURRENT
67-08 M11-75786
THE WELDING OF FINE-GRAINED STEELS
67-09 M11-76808
AUTOMATIC TIG WELDING OF ALUMINIUM ALLOYS IN THE VERTICAL POSITION 67-09 M11-77240
AUTOMATIC ARGON ARC WELDING OF M40 ALLOY
67-09 M11-77241
INFLUENCE ON LOCAL JOINT DISTORTION OF THE RIGIDITY OF CLAMPING SHEETS FOR WELDING
67-09 M11-77243
WELDING OF A-Z5G ALUMINUM ALLOY
67-09 M11-78200
INERT GASES
SEE RARE GASES
INFILTRATION
EFFECT OF SPECIFIC GRAVITY OF MOLTEN SLAG ON ITS RATE OF PENETRATION INTO POROUS REFRACTORIES
67-02 M05-61733
INFILTRATION OF COPPER AND BRASS INTO SINTERED IRON COMPACTS 67-07 M14-73252
INFLAMMABILITY
SEE FLAMMABILITY
INFRARED ABSORPTION
SEE INFRARED RADIATION
INFRARED ANALYSIS
WELD PENETRATION CONTROLLED BY INFRARED SENSOR LOOP
67-02 M19-61004
ELECTROREFLECTANCE MEASUREMENTS WITH THE ELECTROLYTE METHOD IN INFRARED
67-03 M16-65137
NONDESTRUCTIVE TEST DEVELOPMENT FOR ADVANCED AIRPLANES 67-03 M19-65317
FIBER OPTICS LOOK INTO A WELD 67-03 M19-65765
ANALYSIS OF BLAST FURNACE TOP GAS. IMPROVEMENTS FOR PRACTICAL USE OF INFRARED RAY ANALYZERS. PT. 1
67-04 M04-67511
PRACTICAL ASPECTS OF INFRARED CARBON POTENTIAL INSTRUMENTATION 67-05 M19-69199
INFRARED ACTIVE LATTICE MODES IN TELLURIUM
67-06 M16-71169
IDENTIFICATION OF THE FUNDAMENTAL VIBRATIONAL MODES OF TRIGONAL, ALPHA-MONOCLINIC AND AMORPHOUS SELENIUM 67-06 M16-71170
ATMOSPHERES FOR MODERN HEAT TREATING--CONTROLLING THEIR COMPOSITION 67-06 M19-70720
INFRARED LATTICE REFLECTION SPECTRA OF 2-6 COMPOUNDS 67-08 M15-75937
OPTICAL PROPERTIES OF ZINC TELLURIDE IN THE INFRARED 67-08 M15-76168
METALLURGY AND PHYSICAL PROPERTIES OF MERCURY-DOPED GERMANIUM RELATED TO THE PERFORMANCES OF THE INFRARED DETECTOR 67-08 M16-74599
FAR-INFRARED OPTICAL PROPERTIES OF CAF2, SRF2, BAF2 AND CDF2 67-09 M15-77178
MICROPROBE INVESTIGATIONS OF COPPER PRECIPITATES IN SILICON SINGLE CRYSTALS 67-10 M13-79011
INFRARED EVALUATION OF MICROWELD QUALITY
67-10 M19-79747
INFLUENCE OF OH-IONS ON INFRARED ABSORPTION AND IONIC CONDUCTIVITY IN LITHIUM FLUORIDE CRYSTALS
67-11 M16-81670
INFRARED ANALYSIS, SENSORS
INFRARED SENSOR CONTROLS PENETRATION, IMPROVES WELD QUALITY 67-05 M11-68663
INFRARED RADIATION
A PYROMETER FOR THE CONTINUOUS MEASUREMENT OF THE TEMPERATURE OF ALUMINIUM EXTRUSIONS
67-02 M08-61293
ON THE CHEMICAL COMPOSITION OF SURFACE FILMS PRODUCED ON GERMANIUM IN DIFFERENT ETCHANTS
67-02 M19-61573
FAR INFRARED LATTICE BANDS IN INDIUM ANTIMONIDE
67-04 M16-66743
INFRARED ABSORPTION OF LOCALIZED VIBRATION DUE TO LITHIUM IN ZINC SELENIDE AND CADMIUM SULFIDE
67-04 M16-66745
IMPURITY-SENSITIVE INFRARED ABSORPTION IN N-TYPE ALPHA-SIC 67-04 M16-67474
INFRARED STUDIES OF DEFECT PRODUCTION IN N-TYPE SI--IRRADIATION-TEMPERATURE DEPENDENCE
67-05 M14-69817
OPTICAL PROPERTIES OF IRON IN THE VISIBLE AND CLOSE INFRARED REGION OF THE SPECTRUM
67-06 M15-72362
THE OPTICAL AUTOABSORPTION AND THE DIELECTRIC CONSTANT OF CADMIUM OXIDE AT HIGH ELECTRON DEGENERATION 67-06 M16-69963
SUITABILITY OF MAGNESIUM FLUORIDE, CRYOLITE AND FLUORITE AS ANTIREFLECTION MATERIALS FOR INFRARED RADIATIONS 67-08 M15-75566
FAR-INFRARED ABSORPTION IN SUPERCONDUCTING NIOBIUM ALLOYS 67-09 M16-77685
MEASUREMENT OF FILM THICKNESS USING INFRARED INTERFERENCE 67-10 M19-79999
INFRARED SPECTROPHOTOMETERS
DEVICE FOR CONTROL AND REGULATION OF THE END OF THE SINTERING PROCESS 67-02 M02-59868
INFRARED SPECTROSCOPY
MEASUREMENTS OF INFRARED ABSORPTION OF THERMALLY GROWN AND VAPOR-GROWN SILICON OXIDE FILMS
67-01 M15-58314
METHOD OF AND APPARATUS FOR DETERMINING THE OXYGEN CONTENT OF METALS 67-02 M19-60942
METALLURGICAL APPLICATIONS OF LUFT ANALYZERS
67-06 M19-71707
THE EFFECT OF SILICON ON CUPROUS OXIDE
67-08 M15-74610
INGOT CASTING
CORRUGATED VERSUS FLAT-SIDED MOLDS
67-03 M04-65527
QUALITY EVALUATION OF CORRUGATED VERSUS SMOOTH-WALLED MOLDS 67-03 M04-65528
A PRACTICAL METHOD OF CONTROLLING MANGANESE FADING IN OPEN HEARTH RIMMED STEEL 67-03 M04-65536
USE OF FLUX ADDITIONS ON LOW-CARBON ALUMINUM-KILLED STEEL 67-03 M04-65540
QUALITY OF ALUMINUM-KILLED STEEL INGOTS
67-03 M04-65541
QUALITY OF MECHANICALLY CAPPED STEELS
67-04 M04-66018
MELTING AND CONTINUOUS CASTING OF SLABS FROM KILLED OPENHEARTH AND CONVERTER MEDIUM CARBON STEELS
67-04 M04-66853
TEEMING HIGH-ALLOY STEEL UNDER A LAYER OF

MOLTEN SYNTHETIC SLAG 67-04 M04-68183
INVESTIGATION OF BASIC POWER PARAMETERS OF A VERTICAL CONTINUOUS STEEL CASTING MACHINE PRODUCING FLAT INGOTS 67-05 M04-68548
AN EVALUATION OF EXOTHERMIC HOT TOPS 67-05 M04-69065
THE PROBLEM OF PRODUCING MECHANICALLY HOT TOPPED STEEL 67-05 M04-69896
INVESTIGATION OF CONVEYOR CASTING OF MAGNESIUM 67-06 M03-71306
IMPROVED CAPPING OF RIMMING STEEL WITH ALUMINUM 67-06 M04-70908
NUCLEATION OF THE EQUIAXED ZONE IN CAST METALS 67-06 M06-69937
INGOT STEEL WITH FREE GRAPHITE IN THE METALLIC BASE 67-06 M06-70210
PRINCIPAL POWER PARAMETERS OF VERTICAL CONTINUOUS STEEL CASTING PLANT FOR PRODUCING FLAT BILLETS 67-07 M04-72459
NOTES ON SOME FAULTS IN SEMIFINISHED PRODUCTS. RATIONAL PROCEDURES FOR ASSESSING THE NATURE OF FAULTS IN FINISHED PRODUCTS 67-08 M04-75796
FACTORS AFFECTING CRACK SENSITIVITY OF LOW-CARBON KILLED STEEL PLATE INGOTS AND METHODS TO IMPROVE THEIR SURFACE QUALITY 67-09 M04-78009
CONTINUOUS WEIGHING OF MOLTEN STEEL IN THE LADLE DURING POURING OF INGOTS. PT. 1. EQUIPMENT 67-10 M04-78679
EFFECT OF CHEMICAL COMPOSITION AND TECHNOLOGY OF MAN FACTURE ON LIFE OF B.S.P. INGOT MOULDS 67-10 M04-78750
CORRELATIONS BETWEEN THE BEHAVIOR DURING BOILING IN THE MOLD AND THE DEGREE OF MACROSCOPIC PURITY OF VARIOUS EFFERVESCENT STEELS 67-10 M04-79098
IMPROVING THE QUALITY OF RIMMING STEEL INGOTS 67-10 M04-79261
POURING PIT REFRACTORIES--NOZZLES 67-10 M04-79565
APPARATUS FOR CHECKING THE QUALITY OF EXOTHERMIC ANTIPIPING COMPOUNDS FOR THE HOT TOPS OF KILLED-STEEL INGOTS 67-10 M19-79677
APPLICATION EXPERIMENTS OF THE ACCELERATED SOLIDIFICATION PROCESS TO SLAB INGOTS AND LARGE FORGING INGOTS 67-11 M04-80794
HOW ELECTROMAGNETIC STIRRING OF SOLIDIFYING METAL AFFECTS THE CHEMICAL HETEROGENEITY AND MACROSTRUCTURE OF THE INGOT 67-11 M04-81410
CASTING STEEL UNDER A LAYER OF MICA 67-11 M04-81412
REASONS FOR HOT LONGITUDINAL TEARS ON ROUND INGOTS 67-11 M04-81444
HOW CASTING RATES AFFECT THE SPREAD OF ANGULAR SEGREGATION DEFECTS AND THEIR POSITION OVER THE INGOT HEIGHT 67-11 M04-81445
SLAGGING MIX FOR TEEMING AND REFINING ESPECIALLY HEAT RESISTANT STEEL ALLOYS 67-11 M04-81604
EFFECT OF RECRYSTALLIZATION CONDITIONS ON THE LIQUATION OF SULFUR IN A STEEL INGOT WHICH CONTAINS RARE EARTH METALS 67-11 M04-81650
CHANGE IN SOLIDIFICATION PARAMETERS OF STEEL INGOTS AND THEIR CONNECTION WITH CHEMICAL HETEROGENEITY 67-11 M14-81411
THE QUICK IMMERSION PYROMETRY OF POURING TEMPERATURE 67-11 M19-81182
CALCULATING THE SOLIDIFICATION OF RECTANGULAR STEEL INGOTS 67-12 M04-81725
THE AIR OXIDATION OF LOW-CARBON RIMMING STEEL DURING THE RIMMING PERIOD 67-12 M04-81743
TEEMING RIMMING STEEL INTO CLOSED BOTTLE MOLDS 67-12 M04-81791
A RADIAL-TYPE CONTINUOUS STEEL CASTING INSTALLATION FOR PRODUCING SLABS 67-12 M04-81861
EXPERIENCE WITH THE WORKABILITY OF THE CONTINUOUS-CAST SEMIPRODUCT 67-12 M04-81928
NEW STEELMAKING PRACTICE FOR PRODUCING HIGH GRADE LOW CARBON NON-AGING 08YU STEEL 67-12 M04-83419
HOT TEARING OF STEEL INGOTS 67-12 M04-83570
MACROSEGREGATION. PT. 1 67-12 M06-82766
PROBLEMS OF POROSITY IN CAST STEEL. PT. 3 67-12 M06-83086
PROBLEMS OF POROSITY IN CAST STEEL. PT. 2 67-12 M06-83588
PROBLEMS OF POROSITY IN CAST STEEL 67-12 M06-83589

INGOT MOLDS
SEE ALSO HOT TOPS
CORRUGATED VERSUS FLAT-SIDED MOLDS 67-03 M04-65527
AN EVALUATION OF THE EFFECT ON STEELMAKING ON RIMMED-STEEL CLEANLINESS 67-03 M04-65535
THE HISTORY AND USE OF THE BIG-END-DOWN INGOT MOLD 67-04 M04-66951
TEMPERATURE CYCLES OF INGOT MOLDS DURING USE. PT. 1. DETERMINATION OF TEMPERATURE CYCLES OF INGOT MOLDS MOUNTED ON BOGIES 67-06 M04-71823
AN EXAMPLE OF BASIC LININGLESS HOT BLAST CUPOLA OPERATION AND CONTROL 67-06 M06-69952
EXPERIENCES WITH INGOT MOLDS OF NODULAR CAST IRON. PT. 1. PROPERTIES AND FABRICATION OF INGOT MOLDS OF NODULAR CAST IRON 67-07 M04-73009

INGOT MOLDS, CASTING
TEMPERATURE FIELD OF THE FLAT WALL OF A CONTINUOUS CASTING MOLD 67-08 M06-74346
MODERN INGOT-MOULD FOUNDRY 67-11 M04-80422
CERIUM ALLOY TREATMENT OF PIG IRONS FOR CASTING INGOT MOULDS 67-12 M06-81886
CASTING INGOT MOLDS IN SYNTHETIC CAST IRON 67-12 M06-82099
EFFECT OF CHEMICAL COMPOSITION AND TECHNOLOGY OF MANUFACTURE ON LIFE OF BHILAI STEEL PLANT INGOT MOLDS 67-12 M06-83119

INGOT MOLDS, COATING
HEAT INSULATION COATINGS FOR CHILL MOLDS 67-04 M06-67942

INGOT MOLDS, COOLING
REDUCING THE COOLING TIME FOR INGOT-MOLDS 67-10 M06-78895

INGOT MOLDS, CRACK PROPAGATION
REDUCING THE TIME FOR COOLING INGOT MOLDS 67-02 M06-59186

INGOT MOLDS, DESIGN
INVESTIGATION OF THE LIFE OF AN INGOT MOLD WITH A CORRUGATED EXTERNAL SURFACE FOR 6.5-TON INGOTS 67-01 M04-57699
UPHILL CASTING, INSURING UNIFORM SUSPENSION OF INGOTS IN MOLDS 67-06 M04-71250
BOTTOM CASTING ENSURING THAT INGOTS HANG UNIFORMLY IN THE INGOT MOULD 67-08 M04-75719
INGOT MOLD DESIGN 67-11 M04-80113

INGOT MOLDS, MAINTENANCE
REPAIRING INGOT MOLDS IN THE CONVERTER SHOP 67-09 M04-76857

INGOT MOLDS, MECHANICAL PROPERTIES
CHANGES IN THE DIMENSIONS OF INGOT MOLDS WHILE IN USE 67-04 M17-67867
LENGTHENING THE LIVES OF METALLURGICAL INGOT MOLDS 67-06 M17-70197
INOCULATING IRON FOR MOLDS WITH TITANIUM 67-07 M04-73779
STUDY OF THE PROCESS OF MELTING IN A 1.5-TON CONVERTER WITH OXYGEN BLAST 67-07 M04-74044
STEELPLANT INGOT MOLDS OF NODULAR IRON 67-07 M17-73260
INOCULATING IRON FOR INGOT MOULDS WITH TITANIUM 67-09 M04-76542

INGOT MOLDS, MICROSTRUCTURE
PRODUCTION OF CAST IRON INGOT MOLDS FOR STEELMAKING INDUSTRY 67-08 M04-75547

INGOT MOLDS, SERVICE TIME
EFFECT OF THE FORM OF GRAPHITE ON MOLD LIFE 67-12 M06-81984

INGOT MOLDS, STEEL MAKING
TEMPERATURE CYCLES OF INGOT MOLDS DURING USE. PT. 1. DETERMINATION OF TEMPERATURE CYCLES OF INGOT MOLDS MOUNTED ON BOGIES 67-07 M04-73329

INGOT MOLDS, STRESS EFFECTS
EFFECT ON INTERNAL STRESSES ON MOLD LIFE 67-11 M06-80852

INGOT MOLDS, TEMPERATURE CONTROL
TEMPERATURE CYCLES OF INGOT MOLDS DURING USE. PT. 2. DETERMINATION OF TEMPERATURE CYCLES OF AN INGOT MOLD IN A CASTING PIT 67-08 M19-74737

INGOT MOLDS, THERMAL PROPERTIES
A MODEL STUDY OF TEMPERATURE STRAINS IN MOLD WALLS 67-06 M17-70273

INGOT MOLDS, WEAR
OPTIMUM STRUCTURE OF CUPOLA IRON FOR CASTING INGOT MOLDS 67-04 M13-67508

INGOT MOLDS, WELDING
EXPERIENCE WITH RECLAIMING MOLDS AT THE KRIVOROG METALLURGICAL WORKS 67-05 M11-68323
EXPERIENCE OF RECONDITIONING INGOT MOLDS AT THE KRIVOI ROG IRON- AND STEEL- WORKS 67-07 M11-72851

INGOTS
SEE ALSO FOUNDRY INGOTS
PIGS

INGOTS

OPTIMUM CONDITIONS FOR PRODUCING FERROMOLYBDENUM 67-04 M04-66211
INFLUENCE OF THE OXYGEN CONTENT IN LIQUID METAL AND POURING RATE ON THE STRUCTURE OF SEMIKILLED STEEL INGOTS 67-05 M04-69900

INGOTS, CASTING
PREVENTION OF MOLYBDENUM ALLOY INGOT CRACKING BY CAPPING 67-01 M03-58462
EFFECT OF MOLD FILLING RATE FLUCTUATION ON SURFACE QUALITY OF INGOT 67-01 M04-57257
FOUNDRY SET FOR CASTING METAL, PARTICULARLY STEEL INGOTS, BLOCKS, ETC 67-01 M04-57998
ISOTHERMAL MIXTURES FOR HEATING HOT TOPS 67-01 M04-58039
FINDING THE OPTIMUM SETTLING TIME FOR HOT INGOTS 67-01 M04-58168
TEMPERATURE DISTRIBUTIONS IN SOLIDIFYING INGOT AND RESIDUAL STRESSES 67-01 M17-57910
USE OF MIXTURES TO PROMOTE BOILING IN CASTING 67-02 M04-59534
EFFECT OF THE HEIGHT AND TEMPERATURE OF THE MOLD ON THE DEPTH OF BLISTERS BENEATH THE CRUST IN RIMMING STEEL INGOTS 67-02 M04-59569
IMPROVED QUALITY INGOT SURFACE FROM EI654 STEEL 67-02 M04-59593
INVESTIGATION OF EFFICIENT METHODS OF CASTING DIFFERENT GRADE STEELS 67-02 M04-59849
ACCURACY OF MEASURING THE TEMPERATURE OF G13L STEEL BY OPTICAL PYROMETER 67-02 M06-59181
SINGULARITIES OF CASTING TITANIUM-ALLOYED STEELS 67-02 M06-61869
EFFECT OF CERTAIN FACTORS ON THE SOLIDIFICATION OF A STEEL INGOT 67-02 M06-62263
PRODUCING INGOTS OF OXYGEN-FREE COPPER 67-04 M03-66976
TECHNOLOGY INVOLVED IN THE CASTING OF VAD23 ALLOY INGOTS 67-04 M03-67936
THE TECHNOLOGICAL FEATURES OF THE HIGH-SPEED SIPHON TEEMING OF RIMMING AND SEMI-KILLED STEEL INGOTS 67-04 M04-67230
MODE OF LIQUID METAL FLOW DURING INGOT SOLIDIFICATION OF KILLED STEEL 67-04 M04-67723
TEEMING STEELS ALLOYED WITH TITANIUM 67-04 M06-67688
CASTING BERYLLIUM INGOTS AND SHAPES 67-04 M06-67887
CONTACT OF INGOT WITH CRYSTALLIZER WALLS IN CONTINUOUS CASTING 67-05 M04-68322
HEATING THE FEEDER HEADS OF ALLOY STEEL INGOTS BY EXOTHERMIC SLEEVES 67-05 M04-69683
CONTINUOUS CASTING FACILITY--IMPORTANT IN FOIL ROLLERS SERVICE 67-06 M03-71585
INFLUENCE OF THE INGOT GEOMETRY ON THE QUALITY OF TUBULAR BILLETS OF 12KH11V2MF STEEL 67-06 M06-70479
CONTACT BETWEEN BILLET AND MOLD WALLS IN CONTINUOUS CASTING 67-07 M04-72850
EXOTHERMIC SLEEVES FOR CONSERVING HEAT IN THE FEEDER HEADS OF ALLOY STEEL INGOTS 67-07 M04-74069
ASBESTITE USED FOR CONSERVATION OF HEAT IN INGOT TOPS 67-07 M04-74136
SURFACE DEFECTS OF A STAINLESS STEEL INGOT 67-07 M04-74145
INCREASING THE YIELD OF KILLED INGOT STEEL BY USING ISOTHERMAL HOT STOPS 67-08 M04-74351
IMPROVING INGOT SURFACES BY TREATING METAL WITH GRAPHITE IN THE INGOT MOULD 67-08 M04-75718
B.H.P. NEW CASTLE INGOT PRODUCTION BY BOTTOM PORUING 67-08 M04-76192
IMPROVING THE QUALITY OF AN INGOT OF RIMMED STEEL 67-08 M04-76268
SIMULATING SOLIDIFICATION AND HEATING PROCESSES IN RETANGULAR INGOTS 67-08 M06-74593
STUDY ON PRODUCTION OF SOUND INGOT BY ACCELERATED SOLIDIFICATION 67-08 M06-75153
VERTICAL DIRECT CHILL CASTING OF INGOTS FOR WIRE APPLICATIONS 67-09 M03-76404
CASTING INGOTS INTO CAPPED MOLDS AND SATISFACTORY OUTPUT IN ROLLING 67-09 M04-76715
EXOTHERMIC MIXTURE FOR TEEMING STEEL 67-09 M04-76829
COMPLEX IMPROVEMENT OF INGOT QUALITY BY CASTING THE STEEL UNDER SLAG AND HEATING THE FEEDER HEADS 67-09 M04-77361
INTERACTION OF INGOT SKIN WITH COPPER WATER-COOLED WALL OF THE CONTINUOUS CASTING MOLD 67-09 M04-77626
MATHEMATICAL STUDY OF THE SOLIDIFICATION OF SEMIMILD STEEL INGOTS 67-09 M06-76378
MELTING AND CASTING REFRACTORY OR REACTIVE METALS BY PLASMA ELECTRON BEAM 67-09 M06-78223
IMPROVING THE QUALITY OF RIMMING STEEL INGOTS 67-10 M04-79261
PRODUCTION TECHNOLOGY FOR CHEMICALLY CAPPED STEEL IN BOTTOM-POURED LARGE INGOTS 67-10 M04-79816
AUTOMATIC STATIONARY INDUCTOR PREHEATS 1.8-TON INGOT FEEDERS AT INDUSTRIAL FREQUENCY 67-10 M04-80053
ACCURACY OF OPTICAL PYROMETER TEMPERATURE READINGS ON MN STEEL G13L 67-10 M19-78890
INFLUENCE OF CERTAIN PRODUCTION ELEMENTS ON THE QUALITY OF SEMIKILLED STEEL BILLETS 67-11 M04-80853
INTERACTION BETWEEN THE SKIN OF CONTINUOUS CAST BILLETS AND THE WATER-COOLED COPPER WALLS OF THE MOULD 67-11 M04-80914

INGOTS, CASTING DEFECTS
SOME ASPECTS OF CRACK FORMATION WHEN PRODUCING ROUND INGOTS WITH LARGE CROSS SECTIONS 67-08 M03-75094

INGOTS, CASTINGS
UPHILL CASTING, INSURING UNIFORM SUSPENSION OF INGOTS IN MOLDS 67-06 M04-71250
BOTTOM CASTING ENSURING THAT INGOTS HANG UNIFORMLY IN THE INGOT MOULD 67-08 M04-75719

INGOTS, CHEMICAL ANALYSIS
MICROANALYSIS OF SULFIDE INCLUSIONS IN THE REGION OF AN INVERTED V SEGREGATE OF A STEEL INGOT 67-04 M19-67272
STUDY OF MANGANESE BURN-OUT IN CASTING RIMMING STEEL, USING MN52 67-07 M04-73039
THE PROBLEMS OF HIGH OXYGEN CONTENT IN LIQUID STEEL AND POSSIBLE METHODS OF CONTROL 67-07 M19-73100
IDENTIFICATION AND CONTROL OF DEFECTS IN STEEL INGOTS USED FOR RAILROAD TRACKS 67-09 M19-78025
HOMOGENEITY OF COPPER ALLOY INGOTS 67-10 M19-78725
AN ISOTOPE-ASSISTED STUDY OF STRUCTURAL HETEROGENEITY IN A CARBON AND ALLOY STEEL INGOT 67-11 M19-81014

INGOTS, COOLING
MODELING THE COOLING OF STEEL INGOTS 67-04 M04-66100
DEVICE FOR COOLING THE INGOT BY MIXED WATER AND AIR IN CONTINUOUS ALLOY CASTING 67-06 M06-70735

INGOTS, CRACKING /FRACTURING/
DEFECTS IN STEEL PRODUCTS. RATIONAL APPROACH TO ANALYSIS OF DEFECTS IN FINISHED PRODUCTS --DEFECTOLOGY-- 67-07 M17-72901

INGOTS, CRYSTALLIZATION
STEEL SOLIDIFICATION AND INGOT STRUCTURE 67-02 M04-60284

INGOTS, CUTTING
MECHANISM FOR AUTOMATIC GAS CUTTING OF STEEL INGOTS IN CONTINUOUS STEEL CASTING MACHINES 67-04 M11-66197
ELECTRICAL WORKING OF METALS IN METALLURGY 67-10 M12-78388

INGOTS, DEFECTS
CASTING HIGH-ALLOY STEEL UNDER A LAYER OF LIQUID SYNTHETIC SLAG 67-02 M04-62141
LAMINAR CRYSTALLIZATION OF ELECTROSLAG MELTED INGOTS 67-06 M13-72305
MECHANISM OF FORMATION OF CARBON MONOXIDE BLOWHOLES IN INGOTS DURING SOLIDIFICATION. PT. 1. STUDY OF SOLIDIFICATION STRUCTURES OF SEMIKILLED STEEL INGOTS 67-07 M14-72572
DETERMINATION OF THE DISTRIBUTION OF ALLOYING COMPONENTS BY MACROAUTORADIOGRAPHY 67-10 M14-78655

INGOTS, GRAIN GROWTH
EFFECTS OF ALUMINIUM NITRIDE ON THE PROPERTIES OF STEEL 67-08 M14-74736

INGOTS, HEAT TREATMENT
INFLUENCE OF HOMOGENIZING ON PROPERTIES AND STRUCTURE OF COMMERCIAL ALUMINUM INGOTS 67-02 M14-59766
OPTIMUM CONDITIONS FOR HEATING INGOTS OF STAINLESS STEEL WITH 13 PER CENT CHROMIUM 67-06 M10-70101
INFLUENCE OF HOMOGENIZING ON THE STRUCTURE AND PROPERTIES OF TECHNICAL ALUMINUM

67-08 M10-76124
DECREASING METAL LOSSES IN RECUPERATIVE SOAKING PITS WITH CENTRAL HEATING 67-11 M10-81667
ELECTRICAL MODEL OF STEEL INGOT SOLIDIFICATION AND HEATING PROCESSES 67-12 M04-83472
A REGENERATIVE COMPARTMENT FURNACE FOR NONSCALE HEATING OF INGOTS 67-12 M10-82068
OPTIMIZATION OF THE SOAKING PIT PROCESS 67-12 M10-83171
A GRAPHICAL ANALYSIS OF THE RATE OF SCALING UNDER VARYING CONDITIONS OF TEMPERATURE AND TIME 67-12 M10-83172

INGOTS, HEATING
IMPROVING THE METHOD FOR HEATING INGOTS AND BILLETS OF 1KH16N4B STEEL 67-02 M10-59409
AUTOMATIC DEVICE FOR ELECTRIC PREHEATING OF INGOT AND CASTINGS FEEDERS 67-09 M04-76576
OPTIMUM CONDITIONS FOR ELECTRIC ARC HEATING OF COPPER ALLOY INGOT AND CASTING HEADS 67-09 M10-77133

INGOTS, HOMOGENEITY
CHEMICAL HETEROGENEITY AND NONMETALLIC IMPURITIES IN STEEL INGOTS WITH RARE-EARTH METALS 67-05 M04-69506

INGOTS, HOT TOPPING
IMPROVING THE QUALITY OF INGOT SURFACES BY TREATING THE METAL IN MOLDS WITH GRAPHITE 67-06 M04-71249

INGOTS, IMPURITIES
SOME COMMENTS ON TECHNIQUES OF PRODUCING SEMIKILLED STRIP STEEL 67-02 M04-59570

INGOTS, MECHANICAL PROPERTIES
DETERMINING THE QUALITY OF TITANIUM SPONGE BY ITS HARDNESS 67-02 M17-61284
SHEARING FORCE MEASUREMENTS ON A MECHANICALLY WORKING 2000-TON INGOT-SLAB SHEAR 67-06 M17-71703
FEO INCLUSIONS AND FATIGUE OF STEEL 67-06 M17-71738
CREEP RUPTURE AND DYNAMIC STRENGTH TESTS OF TI ALLOYS TIALV4, TIAL6V4 AND TIAL9V3 AT TEMPERATURES OF 350 TO 500 C 67-08 M17-75324
REASONS FOR HOT LONGITUDINAL TEARS ON ROUND INGOTS 67-11 M04-81444

INGOTS, MELTING
REVIEW OF INGOT PRACTICE 67-05 M04-68601
COMPARATIVE INSPECTION OF THE REMELTING CONDITIONS IN THE VACUUM ARC FURNACE AND THE ELECTRON BEAM MULTICHAMBER FURNACE 67-08 M04-75039
INVESTIGATION OF THE TEMPERATURE GRADIENTS IN THE MELTING OF BILLETS IN A MULTICHAMBER ELECTRON BEAM FURNACE BY USE OF A MATHEMATICAL MODEL 67-09 M04-77217
PRACTICAL EXPERIENCE FROM THE EXPERIMENTAL OPERATION OF A 1-TON ELECTROSLAG REMELTING PLANT 67-09 M04-77224
BEHAVIOR OF RAW INGOT SOLIDIFICATION BY VACUUM ARC MELTING 67-09 M06-77221
CAST STRUCTURE AND HOMOGENEITY OF INGOTS REMELTED BY SPECIAL TECHNIQUES 67-11 M04-80213

INGOTS, METAL WORKING
ROLLING TWO-LAYER INGOTS OF L53-KH6F1 STEELS ON A BLOOMING MILL 67-02 M07-58877
INGOT CASTING AND THE PRODUCTION OF SEMIFINISHED PRODUCTS FROM MONEL METAL NMZHMTS28-25, -1.5 67-05 M03-68234

INGOTS, MICROSTRUCTURE
ZONAL CORING IN INGOTS OF TITANIUM ALLOYS 67-02 M03-62221
EXPERIMENTS ON THE SOLIDIFICATION OF STEEL INGOTS BY SCRAPE METHOD 67-02 M06-60618
CONSUMABLE ELECTROFLUX REMELTING--THE HOPKINS PROCESS. PT. 2 67-03 M04-65472
CONTROLLED SOLIDIFICATION 67-03 M14-65337
FORMATION OF EXTRA-AXIAL HETEROGENEITY IN INGOTS 67-04 M13-67606
LIQUATION IN LARGE RIMMING STEEL INGOTS 67-06 M04-70920
QUALITY OF A LARGE INGOT OF KH21N5T STEEL 67-08 M13-76281
QUALITY OF LARGE KH21N5T STEEL INGOT 67-10 M13-79274
SOLIDIFICATION STRUCTURES IN DIRECTIONALLY FROZEN INGOTS 67-11 M13-81333

INGOTS, NONDESTRUCTIVE TESTING
FINISHING OF INTERMEDIATE PRODUCTS 67-02 M12-62069
ESTIMATION OF THE SKIN THICKNESS OF RIMMED STEEL INGOTS 67-06 M04-72289
BLOWHOLES IN ALUMINUM-KILLED NITROGEN-ALLOYED STEEL INGOTS AND WELDING-UP OF BLOWHOLES BY ROLLING 67-06 M19-72395
THE AUTOMATION OF THE CONTINUOUS NONDESTRUCTIVE TESTING OF HOT ROLLED PRODUCTS 67-07 M19-72713

INGOTS, PHASE TRANSFORMATIONS
INVESTIGATION OF SOLIDIFICATION IN INGOTS 67-09 M14-77344

INGOTS, QUALITY CONTROL
IMPROVING THE QUALITY OF INGOTS BY PERFECTING THE CONFIUGRATION OF FEEDER HEADS 67-08 M04-76274
IMPROVING HOT TOP DESIGN FOR BETTER QUALITY INGOTS 67-10 M04-79267

INGOTS, REFINING
CONSUMABLE-ARC VACUUM MELTED STEEL FOR FORGINGS 67-09 M04-76506
EMF ELIMINATION OF NONMETALLIC INCLUSIONS FROM MOLTEN IRON 67-11 M04-81011

INGOTS, ROLLING
ON THE CONTINUOUS CASTING OF ALUMINUM-URANIUM ALLOYS 67-01 M03-57289
EFFICIENCY OF INGOT ROLLING IN ROLLERS WITH HIGHLY RESISTANT GROOVING 67-02 M07-62151
EFFECT OF TECHNOLOGICAL PARAMETERS ON THE DEFORMATION OF METAL AND YIELD IN ROLLING CONTINUOUS CAST FLAT INGOTS 67-05 M07-68328
ON THE IMPORTANCE OF THE PASS SEQUENCE IN THE AUTOMATION OF A BLOOMING MILL 67-05 M07-68540
AUTOMATION OF THE DUO-800 MILL FOR HOT ROLLING NONFERROUS METALS ON CONTACTLESS CONTROL DEVICES 67-06 M07-70737
INFLUENCE OF TECHNOLOGICAL PARAMETERS ON METAL DEFORMATION AND YIELD OF SOUND OUTPUT IN ROLLING FLAT INGOTS FROM CONTINUOUS CASTING 67-07 M07-72856
THE SEIZING AND PASSING OF INGOTS THROUGH THE ROLLS IN ROLLING ON REVERSING MILLS 67-08 M07-75588
THE APPLICATION OF LARGE RIMMING STEEL INGOT TO COLD ROLLED DEEP DRAWING STEEL SHEET 67-08 M07-75802
TESTING THE COMBINATION OF CONTINUOUS CASTING AND ROLLING OF STEEL IN AN EXPERIMENTAL PLANT OF THE BEZHITSA STEELMAKING WORKS 67-09 M04-76975
DEVELOPMENT OF A TECHNOLOGY FOR ROLLING INGOTS IN KH23N18 STEEL 67-11 M07-80859

INGOTS, SOAKING
IMPROVEMENT IN STEELMAKING, CASTING AND HEATING METHODS OF 0-2KH13 STEEL INGOTS 67-01 M04-57672
ELECTROTHERMAL MODELING OF THE PROCESS OF HARDENING AND HEATING RIMMED STEEL INGOTS IN SOAKING PITS 67-04 M04-67621
IMPROVING REGENERATIVE SOAKING PITS 67-06 M10-71269
AUTOMATION OF THE HEAT CAMPAIGN OF REGENERATIVE SOAKING PITS 67-07 M10-73793
AUTOMATION OF THERMAL CONDITIONS OF REGENERATIVE SOAKING PITS 67-09 M10-76556

INGOTS, SOLIDIFICATION
TEMPERATURE DISTRIBUTION ACROSS THE INGOT WHEN COOLING IN MOLD AND IN THERMOS CAR 67-01 M06-57243
ELECTRICAL MODELING OF THE FORMATION OF A PIPE IN A STEEL INGOT 67-02 M04-61742

INGOTS, SURFACE FINISHING
HOT METAL SCARFING MACHINE INCORPORATED IN PRODUCTION LINE OF BLOOMING MILL 67-04 M07-66213

INGOTS, SURFACE PROPERTIES
FORMATION OF UNDULATED --CORRUGATED-- SURFACES ON ALUMINUM INGOTS 67-02 M03-62223
EFFECTS OF THE INTERNAL SHAPE OF THE MOLD ON THE SURFACE FINISH OF MEDIUM-CARBON STEEL SLABS 67-04 M04-67861

INGOTS, THERMAL PROPERTIES
CHOICE OF SHEET INGOT CASTING SPEEDS FOR KILLED STEEL 67-06 M06-70738
GENERALIZED METHODS OF CALCULATING THE HEAT EXTRACTION IN THE SECONDARY COOLING ZONE IN THE CONTINUOUS CASTING OF STEEL 67-07 M04-73013

INHIBITION
EFFECTIVENESS OF ORGANIC COMPOUNDS AS PICKLING INHIBITORS IN HYDROCHLORIC AND SULFURIC ACID 67-02 M12-59043
INHIBITION OF THE CORROSION OF ALUMINIUM-MANGANESE

INHIBITION

ALLOY.. STUDIES WITH THIOUREA AND DIPHENYL THIOUREA 67-03 M18-65681
RECENT TRENDS IN THE STUDY OF CORROSION INHIBITORS 67-03 M18-65836
INHIBITION OF CORROSION OF STEEL IN AQUEOUS PHASE BY OIL-SOLUBLE POLAR RUST INHIBITOR 67-04 M18-66287
THE REDUCTION OF COUMARIN IN THE ELECTRODEPOSITION OF NICKEL 67-05 M12-68821
STUDIES ON THE BEHAVIOUR OF THIOUREA IN BRIGHT NICKEL PLATING 67-05 M12-68832
COVERAGE OF IRON SURFACE BY ORGANIC COMPOUNDS AND ANIONS IN ACID SOLUTIONS 67-05 M18-69839
DERUSTING CORROSION SPECIMENS. STANNOUS CHLORIDE AS AN ACID DERUSTING INHIBITOR 67-06 M18-71229
DETERMINATION OF THE EFFECTIVENESS OF INHIBITORS IN PICKLING SOLUTIONS 67-07 M12-72558
METHOD OF MEASURING THE EFFECTIVENESS OF INHIBITORS FOR CONTINUOUS PICKLING PLANT BATHS 67-07 M12-72714
INHIBITORS FOR AQUEOUS SOLUTIONS 67-07 M18-72821
ROLE OF ANIONS IN THE CORROSION AND CORROSION-INHIBITION OF ZINC IN AQUEOUS SOLUTIONS 67-07 M18-73699
WELL TREATMENT WITH INERT GAS. INERT GAS VS SQUEEZE FOR CORROSION CONTROL 67-08 M18-75741
EFFECT OF SOME ORGANIC PHOSPHORUS COMPOUNDS ON THE CORROSION OF LOW CARBON STEEL IN HYDROCHLORIC ACID SOLUTIONS 67-08 M18-75774
MAGNESIUM ALLOYS IN TERPHENYLS--CORROSION INHIBITORS 67-09 M18-78260
RESEARCH ON THE CORROSION OF SOME METALS AND METAL OXIDES IN SODIUM HYDROXIDE MELTS 67-10 M18-78465
THE BEHAVIOR OF SODIUM SILICATE AS A CORROSION INHIBITOR FOR ALUMINUM IN ALKALINE SOLUTIONS 67-10 M18-78467
A CONTRIBUTION TO THE MECHANISM OF CORROSION INHIBITORS. EFFECTS OF ANIONS 67-10 M18-79561
PRESENT-DAY PROBLEMS OF INHIBITION 67-10 M18-79927
AQUEOUS CORROSION BEHAVIOR OF LIGHT ALLOYS 67-10 M18-79932
INFLUENCE OF SURFACE CONDITION ON THE INHIBITING EFFECT OF DIBENZYLSULFOXIDE IN THE DISSOLUTION OF NICKEL IN HCL 67-10 M18-79933
SPECIFIC INFLUENCE OF SOME ADDITIVES ON THE CORROSION OF IRON IN ACID SOLUTIONS 67-10 M18-80007
CHEMICAL STUDIES ON SULFIDE CORROSION CRACKING OF STORAGE TANK MATERIALS FOR LP GAS. PT. 2. PROTECTION OF HIGH-STRENGTH STEEL IMMERSED IN LP GAS CONTAINING HYDROGEN SULFIDE 67-11 M18-80486
INHIBITION PROCESS OF ANODIC DISOLUTION OF IRON BY IODIDE IONS IN ACID SOLUTIONS 67-11 M18-80487
CORROSION AND CORROSION PRODUCT DEPOSITION IN STEEL-COPPER SYSTEMS WITH CIRCULATING HOT WATER CONTAINING VARIOUS INHIBITORS 67-11 M18-80713
EFFECT OF KATAPIN K ON THE CORROSION BEHAVIOR OF CERTAIN METALS AND ALLOYS IN SULFURIC ACID 67-11 M18-81282
SELECTION OF INHIBITORS FOR LONG-TERM CONSERVATION OF WATER SYSTEMS 67-11 M18-81283
PICKLING OF HOT ROLLED STEEL WITH HYDROCHLORIC ACID AND THE TOTAL REGENERATION OF PICKLING BATHS WITH HYDROCHLORIC ACID AS WELL AS THE PART PLAYED BY INHIBITORS 67-12 M07-82295
STUDY ON ELECTROLYTIC MACHINING PROCESS. PT. 11. EFFECT OF INHIBITOR IN SODIUM CHLORIDE SOLUTION ON THE SURFACE FINISH OF WORK MACHINED BY A SINGLE-PHASE HALF-WAVE RECTIFICATION CURRENT 67-12 M08-83224
NICOTIC ACID AS AN INHIBITOR OF THE CORROSION OF ALUMINIUM-MAGNESIUM ALLOYS IN HYDROCHLORIC SOLUTIONS 67-12 M18-82297
INVESTIGATIONS INTO A PITTING CORROSION INDICATOR TEST ON CHROMIUM AND CHROME-NICKEL STEELS IN SOLUTIONS CONTAINING CHLORIDE OR BROMIDE 67-12 M18-82298
FUNDAMENTAL ASPECTS OF THE DEVELOPMENT OF CORROSION PROOF ALLOYS 67-12 M18-82299
STEAM CORROSION AND STEAM CORROSION INHIBITION 67-12 M18-82356
STUDY ON ELECTROLYTIC MACHINING PROCESS. PT. 12. CORROSION OF MILD STEEL IN SODIUM CHLORIDE SOLUTION 67-12 M18-83225

INHIBITION, CORROSION

INFLUENCE OF MONONITROANILINES AND MONONITROPHENOLS ON CORROSION OF TITANIUM IN SULFURIC AND HYDROCHLORIC ACIDS 67-04 M18-67282

INHOMOGENEITY

SEE HETEROGENEITY

INJECTION

SEE FUEL INJECTION

INJECTION CASTING

SEE DIE CASTING

INJECTION MOLDING

COAXIALS WITH INJECTION-MOULDED INSULATION 67-10 M06-78574

INOCULATION

COMPLEX MICROALLOYING OF CUPOLA MALLEABLE IRON FOR SMALL-SCALE PRODUCTION 67-01 M06-57325
A COMPLEX INOCULANT FOR CAST IRON 67-01 M06-57473
EUTECTIC SOLIDIFICATION OF OXIDIZED CAST IRON 67-01 M14-58255
PRACTICAL RECOMMENDATIONS ON THE SELECTION OF WHITE CAST IRONS FOR USE IN CONDITIONS OF ABRASIVE WEAR 67-01 M17-58034
AN INOCULANT FOR CAST IRON 67-02 M06-59652
STUDIES OF THE SIMULTANEOUS ADDITION OF MAGNESIUM AND RARE EARTH ALLOYS ON THE MANUFACTURE OF NODULAR GRAPHITE CAST IRON 67-02 M06-60148
MANUFACTURE OF SPHEROIDAL GRAPHITE CAST IRON WITH MG AND RARE-EARTH MIXED AGENT 67-02 M06-60754
ELIMINATION OF CHILLING IN THINWALLED MAGNESIUM-TREATED IRON CASTINGS 67-02 M06-61007
MECHANISM OF DENODULARIZER ACTION IN MAGNESIUM-TREATED CAST IRON 67-02 M06-61012
CHANGES IN THE CHEMICAL COMPOSITION OF CAST IRON AFTER TREATING WITH MAGNESIUM AND HOLDING IN THE LADLE 67-02 M06-61185
PRODUCTION OF HIGH-STRENGTH CAST IRON IN A FOUNDRY OF THE ACEC 67-02 M06-61239
EFFECT OF BORON ON INTERFACIAL DISTRIBUTION OF ELEMENTS IN WHITE CAST IRON AND THEIR REDISTRIBUTION DURING ANNEALING 67-02 M06-61807
ELECTRONIC PROBE METHOD OF STUDYING THE CERIUM DISTRIBUTION IN IRONS 67-02 M13-61669
INFLUENCE OF VARIOUS ADDITIONS ON STRUCTURE OF GRAY CAST IRON 67-02 M14-62005
INFLUENCE OF BORON AND ALUMINUM ON GRAPHITIZING OF MALLEABLE IRON 67-02 M14-62006
INFLUENCE OF CALCIUM METAL ON THE STRUCTURE AND PROPERTIES OF CAST HIGH-ALLOY CR-NI STEELS 67-02 M15-61018
TREATMENT OF CUPOLA IRON WITH FERROCERIUM 67-02 M17-61184
TREATMENT OF WHITE IRON WITH BORON AND SILICON 67-02 M17-61187
DISTRIBUTION OF Y90 IN CAST IRONS WITH VARIOUS FORMS OF GRAPHITE INCLUSIONS 67-02 M19-61808
A PRACTICAL METHOD OF CONTROLLING MANGANESE FADING IN OPEN HEARTH RIMMED STEEL 67-03 M04-65536
EXPERIENCE WITH THE INTRODUCTION OF CERIUM-INOCULATED HIGH-STRENGTH CAST IRON 67-04 M06-66423
PRODUCING CASTINGS OF INOCULATED IRON 67-04 M06-66426
INFLUENCE OF BARIUM ALLOY ON STABILITY OF INOCULATION EFFECT 67-04 M06-67506
INOCULATION IN MOLD IS MORE EFFECTIVE THAN IN LADLE 67-04 M06-68016
TRANSITION CARBIDES OBSERVED IN FORMATION OF GRAPHITE IN GRAY IRON 67-04 M14-67748
SURFACE TENSION OF CAST IRONS WITH DIFFERENT CARBON EQUIVALENTS AND THE INFLUENCE THEREON OF BISMUTH ADDITIONS 67-04 M15-68093
INFLUENCE OF INOCULANTS ON COLD SHORTNESS OF LOW ALLOY STEELS 67-04 M17-66362
STRESS IN A MILD STEEL SURFACE IMPREGNATED WITH NITROGEN 67-04 M17-66945
EFFECT OF A COMPLEX FE-ZR INOCULANT ON THE PROPERTIES OF GRAPHITIC STEEL 67-04 M17-67127
INDUCTION MELTING IN THE PRODUCTION OF SPHEROIDAL GRAPHITE CAST IRON 67-05 M06-68924
INOCULATING CAST IRON WITH MAGNESIUM SALTS 67-05 M06-69045
MAKING NODULAR IRON CASTINGS AT MCKINNON INDUSTRIES 67-06 M06-70590

A COMPLEX ADDITIVE FOR CAST IRON
67-06 M06-70761
EFFECTS OF INOCCULANTS AND ALLOYING ADDITIVES ON THE STRUCTURE OF SPECIAL IRONS INVESTIGATED USING ISOTOPES 67-06 M13-70326
DISTRIBUTION OF SILICON AND CHROMIUM BETWEEN THE PHASES OF CAST IRON OF LOW CHROMIUM CONTENT
67-06 M13-71113
INOCULATION OF GRAY CAST IRON. PT. 1
67-06 M17-70857
INFLUENCE OF INOCULATION ON CAST STRUCTURE OF LEDEBURITE ALLOY STEELS 67-07 M04-73121
INOCULATING IRON FOR MOLDS WITH TITANIUM
67-07 M04-73779
COMPLEX MICRO-ALLOYING OF CUPOLA MALLEABLE IRON IN SMALL-BATCH PRODUCTION 67-07 M06-73047
RECENT RESEARCH ON THE INOCULATION OF CAST IRON
67-07 M06-74257
MECHANICAL PROPERTIES, STRUCTURE AND INOCULATION TREATMENT OF ANTIMONY-BEARING CAST IRON
67-07 M17-73261
THE MECHANISM OF INOCULATING STEEL WITH ZIRCONIUM
67-08 M04-74583
DISTRIBUTION OF ELEMENTS WHICH GLOBULIZE GRAPHITE IN MICROVOLUMES OF CAST IRON 67-08 M04-76030
EFFECT OF CONSTRUCTIONAL AND TECHNOLOGICAL FACTORS ON THE STRENGTH AND RELIABILITY OF CASTINGS OF HIGH-QUALITY IRON 67-08 M06-74592
EFFECT OF CERIUM AND LANTHANUM ON THE CHILL OF CAST IRON 67-08 M06-75190
CERIUM-SILICON ALLOY REDUCES CHILL IN GRAY IRON
67-08 M06-75541
INOCULATION OF GRAY CAST IRON. PT. 2
67-08 M06-75561
CASTING HIGH-STRENGTH MOLDS FROM MAGNESIUM-INOCULATED IRON 67-08 M06-76273
COMBINED ACTION OF SURFACE-ACTIVE AGENTS ON THE NUMBER OF GRAPHITIZATION NUCLEI IN CUPOLA MELTED MALLEABLE IRON 67-08 M14-74546
INFLUENCE OF ADDITIONS OF DIFFERENT ELEMENTS ON THE STRUCTURE OF GREY IRON 67-08 M14-76088
INFLUENCE OF BORON AND ALUMINIUM ON THE GRAPHITISATION OF MALLEABLE CAST IRON
67-08 M14-76089
INOCULATING IRON FOR INGOT MOULDS WITH TITANIUM
67-09 M04-76542
THE PRODUCTION OF CAST IRON WITH SPHEROIDAL GRAPHITE IN PRESSURE CHAMBERS
67-09 M04-77004
GRAIN REFINEMENT IN STEEL CASTINGS
67-09 M06-76725
INFLUENCE OF BORON ON THE PHASE DISTRIBUTION OF ELEMENTS IN WHITE IRON AND THEIR REDISTRIBUTION DURING ANNEALING 67-09 M06-78079
MECHANISM BY WHICH CENTERS OF GRAPHITIZATION ARE INITIATED WHEN WHITE CAST IRON IS INOCULATED WITH ALUMINUM AND BORON 67-09 M14-76985
INFLUENCE OF CERIUM, NEODYMIUM, PRASEODYMIUM, LANTHANUM AND ALUMINUM ON THE STRUCTURE OF CAST IRON 67-09 M14-77421
EFFECTS OF ALLOYING ELEMENTS ON THE PROPERTIES OF CHROMANSIL-TYPE STEELS 67-09 M17-76969
EFFECTS OF INOCULANTS ON THE MECHANICAL AND TECHNOLOGICAL PROPERTIES OF ALLOY STEELS
67-09 M17-76983
DISTRIBUTION OF Y90 IN CAST IRONS CONTAINING GRAPHITE PARTICLES OF DIFFERENT SHAPES
67-09 M19-78080
EFFECT OF CALCIUM AND ALUMINUM ON THE ACTIVITY OF IRON-SILICON AS INOCULANT FOR GRAY CAST IRON
67-10 M04-78482
PRODUCING LONG-LIFE INGOT MOULDS MADE OF IRON INOCULATED WITH MAGNESIUM 67-10 M06-79266
METALLURGICAL ASPECTS OF THE ALLOY-DIFFUSION METHOD IN TRANSISTOR TECHNOLOGY 67-10 M14-79954
MECHANISM BY WHICH INOCULATION STRENGTHENS RAIL STEEL 67-10 M17-78938
EFFECTS OF INOCULANTS ON THE PROPERTIES OF KH25N20S2 STEEL 67-10 M17-78982
EFFECT OF CRYSTALLIZATION AND HEAT TREATMENT ON THE STRUCTURE AND PROPERTIES OF CAST HIGH-SPEED STEEL
67-11 M04-81664
POROUS PLUG FOR CARBURIZING AND DESULFURIZING MOLTEN FE IN FOUNDRY LADLES 67-11 M06-80387
DEVELOPMENT OF A TECHNOLOGY FOR ROLLING INGOTS IN KH23N18 STEEL 67-11 M07-80859
EFFECT OF SMALL AMOUNTS OF ADDITIONAL ELEMENTS ON THE COLD BRITTLENESS OF CARBON AND LOW-ALLOY STEELS 67-11 M17-80964
CERIUM ALLOY TREATMENT OF PIG IRONS FOR CASTING INGOT MOULDS 67-12 M06-81886
MICRODISTRIBUTION OF RARE EARTH ELEMENTS IN CAST IRON 67-12 M06-81973
ON DECREASING THE CARBON CONTENT IN MAGNESIUM CAST IRON 67-12 M06-81979
EFFECT OF LANTHANUM ON THE FORM OF GRAPHITE IN AUSTENITIC CAST IRON 67-12 M06-81983
COMPARATIVE EFFECTIVENESS OF BORON-CONTAINING INOCULANTS 67-12 M06-81988
ALLOYED IRON CONTAINING SPHEROIDAL GRAPHITE
67-12 M06-83309
AN IRON CONTAINING SPHEROIDAL GRAPHITE
67-12 M06-83476
THE EFFECT OF ALUMINIUM GRAIN SIZE OF INTERACTIONS BETWEEN ELEMENTS ADDED TO THE LIQUID METAL
67-12 M14-82117
MORPHOLOGY OF THE FINE GRAPHITE EUTECTIC IN CERIUM CAST IRON 67-12 M14-82410
HIGH TEMPERATURE VERNEUIL CRYSTAL GROWTH BY ARC MELTING 67-12 M14-82669
EFFECT OF SB, BI AND B ON THE PROPERTIES OF MALLEABLE CAST IRON 67-12 M17-81987
THE EFFECT OF COBALT, NICKEL AND COPPER ON THE STRUCTURE AND THE MECHANICAL PROPERTIES OF SPHEROIDAL GRAPHITE CAST IRON
67-12 M17-82919

INOCULATION, DIFFUSION EFFECTS
THERMODYNAMIC STUDY ON CAST IRON INOCULATION
67-01 M06-57284

INOCULATION, IMPURITY EFFECTS
PRODUCTION OF THIN-SECTION NODULAR-IRON CASTINGS FREE FROM CARBIDES 67-07 M06-73217

INORGANIC ACIDS
SEE ALSO HYDROCHLORIC ACID
NITRIC ACID
SULFURIC ACID
FACTORS INFLUENCING THE PICKLING TIME REQUIRED FOR HOT ROLLED STEEL STRIP 67-06 M12-71384

INORGANIC ACIDS, CORROSION ENVIRONMENTS
ADDITIVES PREVENT LOW CARBON STEEL CORROSION IN SULFUROUS ACID 67-03 M18-65475

INORGANIC COMPOUNDS, MAGNETIC PROPERTIES
DOMAIN STRUCTURE OF HEXAGONAL FERRIMAGNETIC OXIDES WITH HIGH ANISOTROPY FIELD
67-01 M15-57120

INORGANIC SALTS, ALLOYING ADDITIVE
EFFECT OF CHLORIDE SALTS OF ALKALI AND ALKALI-EARTH ELEMENTS ON THE PROPERTIES OF 15KH1M1FL STEEL
ELEMENTS ON THE PROPERTIES 67-12 M04-83028

INORGANIC SALTS, BINARY SYSTEMS
MISCIBILITY OF METALS WITH SALTS. PT. 7. THE POTASSIUM-POTASSIUM SULFIDE SYSTEM
67-05 M13-69031

INORGANIC SALTS, REACTIONS /CHEMICAL/
THE PRODUCTION OF SPHERICAL FUEL PARTICLES FROM AQUEOUS METAL-SALT SOLUTIONS 67-06 M05-70575
TREATING IRON WITH A MIXTURE OF MAGNESIUM SALTS AND REDUCING AGENTS IN A TURBULENT STREAM
67-07 M06-74037

INORGANIC SALTS, SYSTEMS /METALLURGICAL/
MEASUREMENTS OF VAPOR PRESSURE FOR NAF3-ALF3 AND
67-07 M15-73878

INSERTS
USING INSERTS IN SHEET FORMING DIES
67-05 M20-69494
FUSION CHARACTERISTICS OF INSERTS AND CHAPLETS
67-06 M06-70554
CONDENSER DISCHARGE WELDING OF ALUMINIUM AND ITS ALLOYS BY EMPLOYING INSERTS 67-07 M11-72417
CARBIDE AND CERAMIC INSERTS 67-10 M20-79300

INSERTS, MATERIALS
CONTRIBUTION TO THE STUDY OF THE BEHAVIOR OF COPPER ALLOY INSERTS IN HEAT TREATED A-S10G CASTINGS 67-06 M06-71710

INSPECTION
INSPECTION AND DESEAMING LINES AT LYSAGHTS
67-07 M19-72794

INSTABILITY
SEE STABILITY

INSTRUMENTATION
INSTRUMENT ANALYSIS AT THE TOKAI IRON AND STEEL WORKS 67-02 M04-60758
WHO WOULDNT TOUCH COPPER WITH A TEN-FOOT POLE
67-06 M03-71237
BEARINGS, TOOLING, INSTRUMENTS AND OTHER MECHANICAL APPLICATIONS 67-08 M20-74833

INSTRUMENTS /MEASURING/
SEE MEASURING INSTRUMENTS

INSULATING
SEE INSULATION
INSULATING MATERIALS
SEE INSULATION
INSULATION
SEE ALSO ACOUSTIC INSULATION
REFLECTIVE INSULATION
INVESTIGATION OF INSULATING BRICK IN STEEL PLANT SERVICE 67-01 M04-58453
MECHANICAL DISRUPTION OF SURFACE FILMS ON METALS 67-01 M17-57208
CASTING OF CAST IRON IN METAL MOLD 67-08 M06-74620
OUTSIZE BALL BLANKET CURES TRAPPING PROBLEM 67-08 M12-74459
COAXIALS WITH INJECTION-MOULDED INSULATION 67-10 M06-78574
THE DEVELOPMENT OF POWER CABLE MANUFACTURE 67-10 M20-78395
DESIGN AND MANUFACTURE OF PLASTIC INSULATED ALUMINUM CONDUCTOR TELEPHONE CABLE 67-10 M20-78582
HARD ANODIC OXIDE FILMS ON ALUMINUM WITH IMPROVED ELECTROINSULATION PROPERTIES 67-11 M12-81291
INSULATORS
THE SELECTION AND USE OF PYROMETER SHEATHS 67-05 M20-68721
INSULATORS, CORROSION
RESISTANCE OF CORUNDUM CERAMIC TO LIQUID POTASSIUM-SODIUM ALLOY 67-05 M18-68600
INSULATORS, ELECTRICAL PROPERTIES
BEST ELECTRICAL MATERIALS FOR HIGH TEMPERATURE USES STUDIED 67-08 M15-76081
INSULATORS, POWDER METALLURGY
ROLE OF POWDER METALLURGY IN THE FABRICATION OF VERY LARGE PARTS 67-01 M09-58683
INSULATORS, SEALING
CERAMIC-TO-METAL JOINTS 67-04 M11-66288
INSULATORS, THIN FILMS
RF SPUTTERING OF INSULATORS 67-08 M12-75043
INTAKE VALVES /ENGINES/
SEE ENGINE VALVES
INTEGRATED CIRCUITS
TANTALUM INTEGRATED CIRCUITS 67-04 M14-66881
INTEGRATED CIRCUIT ENGINEERING--BASIC TECHNOLOGY 67-04 M16-67795
ELECTRON BEAM FORMATION OF 800 A. WIDE ALUMINIUM LINES 67-06 M12-71014
THIN AND THICK FILM ELECTRONICS 67-06 M16-70847
CERAMICS IN HYBRID INTEGRATED CIRCUITS 67-07 M20-73204
INTEGRATED CIRCUIT MANUFACTURE GETS MECHANIZED 67-08 M20-75923
INTEGRATED CIRCUITS, COATING
RECENT DEVELOPMENTS IN THE VACUUM DEPOSITION OF ELECTRONIC FILM CIRCUITS 67-08 M12-75175
SOME APPLICATIONS OF TRIODE SPUTTERING TO INTEGRATED CIRCUITS CIRCUITS 67-08 M12-75602
INTEGRATED CIRCUITS, DEPOSITION
SOME APPLICATIONS OF CONTOUR DEPOSITION 67-10 M12-78866
INTEGRATED CIRCUITS, SPUTTERING
SIMPLIFIED OPERATIONS ANALYSIS IN CONTINUOUS SPUTTERING OF THIN FILMS 67-03 M12-65066
INTENSIFICATION
SEE AMPLIFICATION
INTERATOMIC BONDS
SEE CHEMICAL BONDS
INTERATOMIC DISTANCE
ON THE HEXAGONAL PHASE OF NICKEL 67-04 M14-67109
ATOMIC GEOMETRY OF THE ALKALI HALIDES 67-08 M16-74947
CHALCOGENIDES OF THE TRANSITION ELEMENTS. PT. 5. CRYSTAL STRUCTURES OF THE DISULFIDES AND DITELLURIDES OF RUTHENIUM AND OSMIUM 67-09 M13-76446
NEUTRON-DIFFRACTION STUDY OF UC2 AT 300 TO 5 K 67-11 M13-81572
INTERCOOLERS
SEE COOLERS
INTERCRYSTALLINE STRUCTURE
SEE INTERGRANULAR STRUCTURE
INTERDENDRITIC STRUCTURE
THE DISTRIBUTION OF ALLOYING ELEMENTS IN DENDRITES AND INTERDENDRITIC SPACES 67-06 M19-72155
INTERFACIAL ENERGY
SEE SURFACE ENERGY
INTERFACIAL SURFACE TENSION
SEE SURFACE TENSION
INTERFERENCE
ANOMALOUS OPTICAL EFFECTS IN GERMANIUM FILMS 67-01 M15-57219
INTERFEROMETERS
INTERFEROMETER JIG FOR FILM THICKNESS MEASUREMENT 67-06 M19-70835
FAR-INFRARED ABSORPTION IN SUPERCONDUCTING AND NORMAL LEAD 67-12 M16-82102
INTERFEROMETRY
SEE INTERFEROMETERS
INTERGRANULAR CORROSION
BEHAVIOR OF IRON-CHROME-NICKEL AUSTENITES AND FEAL 40 ALLOY IN SUPERHEATED STEAM 67-01 M18-57162
EFFECT OF INTERSTITIAL ELEMENTS AND IRON ON CORROSION RESISTANCE OF COMMERCIALLY PURE TITANIUM IN HYDROCHLORIC ACID AND SULFURIC ACID 67-01 M18-58237
CORROSION RESISTANCE OF STAINLESS STEEL WELDED JOINTS WITH GAS-ELECTRIC CUTTING OF EDGES 67-01 M18-58278
SENSITIVITY TO STRESS CORROSION AND INTERGRANULAR ATTACK OF HIGH-NICKEL AUSTENITIC ALLOYS 67-01 M18-58513
THE EFFECT OF BOUNDARY OXIDATION ON THE FORMATION OF THE SURFACE ZONE AND THE FATIGUE STRENGTH OF CASE-HARDENED SPECIMENS 67-02 M17-59531
EFFECT OF DEFORMATION ON INTERCRYSTALLINE CORROSION OF TYPE 18-9 STAINLESS STEEL 67-02 M18-60066
INTERCRYSTALLINE CORROSION SUSCEPTIBILITY OF LOW CARBON AND STABILISED AUSTENITIC STAINLESS STEELS 67-02 M18-60915
THE CORROSION OF AUSTENITIC SUPERHEATER STEELS BY ALKALI SULFATE/ALKALI CHLORIDE MIXTURES IN AIR AND COMBUSTION GASES 67-02 M18-62023
CORROSION IN BLAST-FURNACE GAS TURBINES. CAUSES AND REMEDIES 67-02 M18-62025
STRESS CORROSION IN THE GRIDS OF THE LEAD-ACID STORAGE BATTERY 67-03 M18-65419
MECHANISM OF INTERGRANULAR STRESS CORROSION CRACKING IN 70 CU-30 ZN ALLOY 67-03 M18-65845
CORROSION RESISTANCE OF AUSTENITIC STAINLESS STEEL CONTAINING NITROGEN AND THE EFFECT OF RARE-EARTH METALS 67-03 M18-65961
OPTIMUM HEAT TREATMENT CONDITIONS FOR 1KH18N12M2TL STEEL 67-04 M10-67981
DAMAGE CAUSED BY DEZINCIFICATION 67-04 M14-67081
STUDY OF FRACTURE SURFACES IN CR18NI9TI TYPE STAINLESS STEELS 67-04 M17-67850
THE DEPENDENCE OF THE CORROSION RESISTANCE OF KH18V10T STEEL PIPES ON THEIR CARBURIZATION 67-04 M18-66829
METAL CORROSION AND POSSIBILITIES OF CORROSION PROTECTION 67-04 M18-66884
CREVICE CORROSION OF TITANIUM IN SULFURIC ACID 67-04 M18-67280
CORROSION RESISTANCE OF GAS ARC CUT WELDED JOINTS IN STAINLESS STEELS 67-04 M18-67359
INTERCRYSTALLINE CORROSION OF SOME STAINLESS STEELS 67-04 M18-67972
INFLUENCE OF SILICON ON THE MECHANICAL PROPERTIES OF CR-NI-MO ALLOYS AND SUSCEPTIBILITY TO INTERCRYSTALLINE CORROSION 67-04 M18-67973
RELIABILITY OF AUSTENITIC STEELS FOR POWER PLANTS WITH VAPOR PARAMETERS OF 650 C. AND 315 ATM 67-05 M18-69273
IMPROVING INTERGRANULAR CORROSION RESISTANCE OF SHEET AND STRIP OF KH18N9T --KH18N10T-- STAINLESS STEEL 67-05 M18-69827
THE INTERGRANULAR CORROSION OF CHROMIUM STEELS IN CONCENTRATED NITRIC ACID 67-06 M18-70337
THE STUDY OF UNDERWATER CORROSION OF STAINLESS STEELS AND NICKEL BASE ALLOYS 67-06 M18-71502
THE EFFECT OF ZIRCONIUM AS A FUNCTION OF THE CARBON CONTENT ON THE INTERCRYSTALLINE CORROSION OF AUSTENITIC CR-NI STAINLESS STEELS 67-06 M18-72162
IMPURITY ADSORPTION AND INTERGRANULAR CORROSION OF AUSTENITIC STAINLESS STEEL IN BOILING HNO3-K2CR2O7 SOLUTIONS 67-07 M18-72763
THE INFLUENCE OF OXIDE GRAIN BOUNDARIES ON DIFFUSION-CONTROLLED OXIDATION

67-07 M18-72766
TRANSGRANULAR CORROSION AND CORROSION CRACKING OF 18-9 AND 18-12 TYPES OF STAINLESS STEELS WITHOUT TI AND CB ADDITIONS 67-07 M18-73171
THE CORROSION SUSCEPTIBILITY OF PRESTRESSED HIGH-STRENGTH STEEL WIRE 67-07 M18-73229
KINETIC FEATURES OF STRESS-CORROSION CRACKING 67-07 M18-73697
INTERGRANULAR CORROSION OF 1KH 21N5T STAINLESS STEEL SHEET 67-07 M18-74193
INTERGRANULAR FAILURE OF AUSTENITIC STEEL PUMP SPINDLE 67-08 M17-74508
COMPARING RESULTS OF DETERMINING THE DEPTH OF INTERCRYSTALLINE CORROSION BY VARIOUS METHODS 67-08 M18-75351
A STUDY OF STRESS-CORROSION OF HIGH-RESISTANT LIGHT ALLOYS WITH REFERENCE TO THEIR SURFACE STRUCTURES 67-09 M18-76493
THE PROPERTIES OF CORROSION-RESISTANT NICKEL-MOLYBDENUM ALLOYS 67-10 M18-78943
NONSTANDARDIZED AUSTENITIC STAINLESS STEELS 67-10 M18-79928
INVESTIGATION OF REDOX POTENTIALS OF AN ELECTROLYTE WITH ADDITION OF METALLIC COPPER 67-10 M18-80008
INFLUENCE OF WORK HARDENING AND SOLUTION HEAT TREATMENT ON THE KINETICS OF SENSITIZATION OF AN 18-8 STEEL 67-11 M18-80242
THE BEHAVIOR OF AUSTENITIC FE-CR-NI STEELS AND OF THE NEW FEAL 40 ALLOY IN SUPERHEATED STEAM 67-11 M18-80355
GRAIN BOUNDARY OXIDATION AND THE CHROMIUM-DEPLETION THEORY OF INTERCRYSTALLINE CORROSION OF AUSTENITIC STAINLESS STEELS 67-11 M18-80708
RAISING THE RESISTANCE OF KH18N9T --KH18N10T-- STEEL SHEET AND STRIP TO INTERCRYSTALLITE CORROSION 67-12 M18-82261
THE CONNECTION BETWEEN THE GRAIN SIZE OF AUSTENITIC STEELS AND THEIR SUSCEPTIBILITY TO INTERGRANULAR CORROSION 67-12 M18-82483
ENERGY THEORY OF INTERNAL CORROSION. INTERDEPENDENCE OF CORROSION AND STATES OF STRESS 67-12 M18-83215
LOW ALLOY STEELS RESISTANT TO NITRATES AND TO STRESSES 67-12 M18-83511
CORROSION RESISTANT AUSTENITIC-FERRITIC STEEL, OKH20N6MD2T 67-12 M18-83542

INTERGRANULAR CORROSION, ALLOYING EFFECTS
INTERCRYSTALLINE CORROSION OF TWO-PHASE STEELS OF THE OKH21N5 TYPE 67-07 M18-73646
INFLUENCE OF SILICON ON INTERGRANULAR CORROSION AND GRAIN BOUNDARY ENERGY IN NICKEL-CHROMIUM AUSTENITIC STAINLESS STEELS 67-09 M18-77679
THE EFFECT OF SMALL ADDITIONS OF COPPER ON THE CORROSION RESISTANCE OF ALUMINIUM AND ALUMINIUM ALLOYS 67-12 M18-81965

INTERGRANULAR CORROSION, COMPOSITION EFFECTS
INTERGRANULAR CORROSION OF AUSTENITIC STAINLESS STEEL IN HIGHLY OXIDIZING ACID MEDIA. THE INFLUENCE OF THE SILICON CONTENT OF STEEL 67-01 M18-57298

INTERGRANULAR CORROSION, HEATING EFFECTS
HEAT TREATMENT AND CORROSION RESISTANCE OF AUSTENITIC TYPE 304 STAINLESS STEEL 67-01 M18-58470
SENSITIZATION AND THERMAL STABILIZATION OF NI-CR-MO-FE-W ALLOY 67-03 M18-65756
INFLUENCE OF HEAT TREATMENT ON INTERGRANULAR CORROSION OF KH20N45B NICKEL ALLOY 67-07 M18-73647
POLARIZATION AND STRESS-CORROSION STUDIES OF AN AL-CU-MG ALLOY 67-09 M18-76643
INFLUENCE OF THE WELDING HEAT CYCLE AND HEAT TREATMENT ON THE INTERCRYSTALLINE CORROSION SUSCEPTIBILITY OF EI847 STEEL 67-11 M11-80651
INTERGRANULAR CORROSION AND ELECTRON MICROSCOPIC STUDIES OF AUSTENITIC STAINLESS STEELS 67-12 M18-83054

INTERGRANULAR CORROSION, RADIATION EFFECTS
IRRADIATION EFFECTS ON HIGH-TEMPERATURE REACTOR STRUCTURAL METALS 67-07 M18-73381

INTERGRANULAR CORROSION, STRESS EFFECTS
ELECTROCHEMICAL INVESTIGATION OF STRESS CORROSION CRACKING AND ITS PRACTICAL APPLICATION 67-07 M18-73696

INTERGRANULAR PRECIPITATION
EFFECT OF COLD REDUCTION ON PRECIPITATION AND EMBRITTLEMENT OF A COBALT-BASE ALLOY --L-605-- 67-04 M17-66189
THE EFFECT OF GRAIN BOUNDARY PENETRATION ON THE DELAYED FAILURE OF CU-2 PER CENT BE 67-04 M17-66921
GRAIN BOUNDARY SEGREGATION AND THE COLD-WORK PEAK IN IRON CONTAINING CARBON OR NITROGEN 67-06 M14-71603
DISCUSSION OF MECHANISMS OF FORMATION OF THETA PRECIPITATES IN AL-4 PER CENT CU BY C. LAIRD AND H. I. AARONSON 67-06 M14-72231
DISTRIBUTION OF THE PRECIPITATES OF THE SECOND PHASE ALONG THE BOUNDARIES IN ALLOYED STEELS AND ALLOYS 67-08 M13-74960
THE INTERGRANULAR STRENGTH OF NI-CR-BASE ALLOYS AND THEIR PHASE COMPOSITION 67-08 M17-75025
INTERGRANULAR FRACTURE OF ALLOY STEELS 67-10 M17-79771
THE MORPHOLOGY AND MORPHOLOGICAL STABILITY OF LARGE PRECIPITATES FORMED IN CUZN AND CUZN SN 67-12 M14-82759

INTERGRANULAR STRUCTURE
FAILURE MODES IN NICKEL FATIGUED IN VACUUM AS A FUNCTION OF TEMPERATURE AND PURITY 67-12 M17-82976

INTERGRANULAR STRUCTURE, ALLOYING EFFECTS
EFFECT OF CERIUM ON STRUCTURE AND PROPERTIES OF OKH23N18 STEEL 67-05 M13-68557
EFFECT OF CERIUM ON STRUCTURE AND PROPERTIES OF OKH23N18 STEEL 67-07 M13-72468

INTERGRANULAR STRUCTURE, HEATING EFFECTS
EFFECT OF GRAIN BOUNDARY DENUDATION OF GAMMA PRIME ON NOTCH-RUPTURE DUCTILITY OF INCONEL NICKEL-CHROMIUM ALLOYS X-750 AND 718 67-12 M17-82762

INTERMETALLIC COMPOUNDS
SEE INTERMETALLICS

INTERMETALLIC PHASES
THE ALUMINIUM-RICH PARTS OF THE ALUMINIUM-SAMARIUM AND ALUMINIUM-DYSPROSIUM SYSTEMS 67-06 M13-71059
COEXISTING PHASES IN PARTIALLY ORDERED MNNI3 67-06 M13-71997
EQUILIBRIUM DIAGRAM OF THE IRON-MOLYBDENUM SYSTEM 67-06 M14-70810
PHASE STUDIES IN THE PSEUDOBINARY SYSTEM UN-UP 67-06 M14-71161
INVESTIGATIONS ON THE BINARY SYSTEMS OF MANGANESE WITH YTTRIUM, SAMARIUM, GADOLINIUM, DYSPROSIUM, HOLMIUM, AND ERBIUM USING THE AMALGAM PROCESS 67-06 M14-71667
INTERMEDIATE PHASES IN ALLOYS OF TITANIUM WITH IRIDIUM, RHODIUM, AND OSMIUM 67-07 M13-73277
THE CRYSTAL STRUCTURE OF GD13ZN58 67-07 M13-73438
THE CRYSTAL STRUCTURE OF TANI3 AND ITS CHANGE ON COLD WORKING 67-07 M13-73922
CRYSTALLOGRAPHIC TRANSFORMATIONS 67-07 M14-73682
STRUCTURE AND CHEMICAL COMPOSITION OF CALORIZED LAYER DEPOSITED ON NI AND ITS ALLOYS 67-07 M14-74182
TRANSFORMATIONS AND STRUCTURES IN THE URANIUM-RHENIUM SYSTEM. PT. 3. FORMATION AND STRUCTURE OF DELTA --U2RE-- 67-07 M14-74231
MAGNETIC ELECTRICAL AND THERMAL PROPERTIES OF THE BCC-ALPHA PHASE IN A FE-GA SYSTEM 67-07 M15-72726
CONSTITUTION OF ALLOYS 67-08 M13-74803
PHASE DIAGRAM OF THE SYSTEM CHROMIUM-GERMANIUM 67-08 M13-75958
SELECTIVE ISOLATION OF INTERMETALLIC AND CARBIDE PHASES PRESENT IN A NI-CR-TI-AL-C ALLOY 67-08 M13-75963
THE YTTRIUM-LEAD ALLOY SYSTEM 67-08 M13-75966
THE REFINEMENT OF THE STRUCTURES OF THE INTERMETALLIC PHASES REAL6 AND TCAL6 67-08 M13-76137
NEW VANADIUM COMPOUNDS WITH A CR3SI TYPE STRUCTURE 67-08 M14-74864
NEW A-15 PHASES 67-08 M16-75002
COBALT, NICKEL AND COPPER PHASES IN TERNARY MNCU2AL SOLUTION 67-09 M13-77572
INTERMETALLIC PHASES IN THE SYSTEMS OF ZINC WITH LANTHANUM, CERIUM, PRASEODYMIUM, NEODYMIUM, AND YTTRIUM 67-09 M13-77722
THE SYSTEM PLATINUM-GERMANIUM 67-09 M13-78137
PHASE EQUILIBRIA STUDIES ON THE ALUMINIUM-PLUTONIUM SYSTEM 67-09 M14-76322

INTERMETALLIC PHASES

CONSTITUTIONAL STUDIES ON THE TERNARY SYSTEM PLUTONIUM-MOLYBDENUM-CARBON, PLUTONIUM-SILICON-CARBON AND PLUTONIUM-THORIUM-CARBON 67-09 M14-76345
A STUDY OF PLUTONIUM OXIDES AND THEIR SOLUBILITY IN URANIUM DIOXIDE 67-09 M14-76346
EQUIATOMIC TERNARY COMPOUNDS OF URANIUM AND ALUMINIUM WITH GROUP 8 TRANSITION ELEMENTS 67-09 M14-77466
ELECTRON-DIFFRACTION STUDY OF THE PB2B12SE5 STRUCTURE 67-10 M13-79355
THE PHASE AB2 IN THE TERNARY SYSTEMS LA-SB-TE AND LA-SN-SB 67-10 M14-78479
STRUCTURAL STUDY OF NICBIUM-IRON ALLOYS 67-10 M14-78481
X-RAY DIFFRACTION ANALYSIS OF THE CE-MG-AL SYSTEM IN THE 0-33.3 AT . PER CENT CE RANGE 67-11 M13-81173
THE CONSTITUTION OF ALLOYS OF GOLD AND MERCURY 67-11 M14-80305
PHASE RELATIONS AND INTERMETALLIC COMPOUNDS IN THE LANTHANUM-COBALT SYSTEM 67-11 M14-80306
NEW PHASES IN THE VANADIUM-IRIDIUM SYSTEM AND A TENTATIVE CONSTITUTION DIAGRAM 67-11 M14-80311
PHASE RELATIONS IN THE ZINC-RICH PORTION OF THE PLUTONIUM-ZINC SYSTEM 67-11 M14-80316
X-RAY EXAMINATION OF THE AL-BE-CE SYSTEM UP TO 25 PER CENT CE 67-12 M13-82122
NEW EUROPIUM AND YTTERBIUM COMPOUNDS OF CACU5 STRUCTURE IN THE MX5 SYSTEMS 67-12 M13-83254
SOME NEW PHASES OF THE MN5SI3 TYPE 67-12 M14-82052
SELECTIVE SEPARATION OF INTER-METALLIC COMPOUNDS FROM MULTI-COMPONENT THREE-PHASE ALLOYS 67-12 M14-82119
SEPARATION OF THE INTERMETALLIDE PHASE NI3AL FROM A NI-CR-AL ALLOY 67-12 M14-82169
REACTION DIFFUSION AND KIRKENDALL-EFFECT IN THE NICKEL-ALUMINUM SYSTEM 67-12 M14-82757

INTERMETALLIC PHASES, ALLOYING EFFECTS
THE NATURE OF THE K-STATE IN THE SYSTEM OF IRON AND ALUMINIUM 67-08 M15-74405
INFLUENCE OF ADDITIONAL ELEMENTS ON THE PRECIPITATION OF AL-ZN-MG ALLOYS 67-09 M14-78240

INTERMETALLIC PHASES, CHEMICAL ANALYSIS
MICROANALYTICAL STUDIES OF CARBIDES AND INTERMETALLIC PHASES 67-07 M19-73256

INTERMETALLIC PHASES, CRYSTAL STRUCTURE
THE STRUCTURE OF THE GAMMA PRIME-PHASE IN NICKEL-BASE SUPERALLOYS 67-06 M14-71427

INTERMETALLIC PHASES /CONGRUOUS/
THE TERNARY CONDENSED PHASE DIAGRAM OF THE GA-AS-TE SYSTEM 67-03 M14-65428

INTERMETALLIC PHASES /INCONGRUOUS/
THE EQUILIBRIUM DIAGRAM OF THE SYSTEM NIOBIUM-NICKEL 67-03 M14-65125

INTERMETALLICS
MICRODIFFRACTION OF ELECTRONS APPLIED TO METALLOGRAPHY 67-01 M13-58127
THERMOCHEMICAL PROPERTIES. PT. 1 67-01 M15-58504
X-RAY MICROGRAPHY STUDY OF SOME ALLOYS IN THE ZR-FE AND ZR-CO SYSTEMS 67-02 M13-59660
STATE OF ORDERING AND THE ELECTRICAL RESISTIVITY IN THE QUASIBINARY SECTION NI4MO-NI4-W 67-02 M13-61896
TERNARY CHEMICAL COMPOUNDS IN THE NI-TI-NB SYSTEM 67-02 M13-62183
ELECTRIC AND MAGNETIC PROPERTIES OF THE SOLID SOLUTION VSI2-CRSI2 AND TISI2-CRSI2 67-02 M15-60183
SOLUBILITY OF NB IN NI-CR SOLID SOLUTION 67-03 M13-65795
THE EXISTENCE OF INTERMETALLIC COMPOUNDS IN THE NB-ZN SYSTEM 67-03 M13-65796
THE ELECTROLYTIC ISOLATION OF NI3NB FROM NICKEL BASED ALLOYS 67-05 M19-69619
A NICKEL-BASE ALLOY HARDENED DURING THE PRECIPITATION OF A PHASE WITH A RHOMBIC LATTICE 67-06 M10-70925
EFFECT OF PRECIPITATION HARDENING PHASE ON PRIMARY RECRYSTALLIZATION OF EI437B ALLOY 67-06 M14-70287
IMPROVEMENT OF HEAT-RESISTING COBALT-BASE ALLOYS BY PRECIPITATION HARDENING 67-06 M14-70597
BONDING AS REVEALED BY CRYSTAL MORPHOLOGY 67-07 M13-73665
FACTORS GOVERNING CRYSTAL STRUCTURE 67-07 M13-73668
CLOSE-PACKED STRUCTURES 67-07 M13-73669
BODY-CENTERED CUBIC DERIVATIVE STRUCTURES 67-07 M13-73670
WURTZITE AND ZINC BLENDE TYPE STRUCTURES 67-07 M13-73671
ANTIPHASE BOUNDARIES AND DOMAINS 67-07 M13-73674
CONSTITUTION OF METALLIDE SYSTEMS 67-07 M13-73679
INTERMETALLIC COMPOUNDS 67-07 M14-73661
BONDING AS INTERPRETED BY SPATIAL CORRELATION OF ELECTRONS 67-07 M14-73666
THEORIES OF BONDING IN METALS AND ALLOYS 67-07 M16-73662
RARE-EARTH-SB AND -BI COMPOUNDS WITH THE GD4BI3 --ANTI-TH3P4-- STRUCTURE 67-08 M13-75291
NEUTRON DIFFRACTION ANALYSIS OF FE-CO ATOMIC FERROMAGNETIC SUPERLATTICES 67-10 M13-79916
PHASE EQUILIBRIA IN THE TI-CO-SI SYSTEM 67-12 M13-82423
INFLUENCE OF NIOBIUM ON THE SOLID STATE TRANSFORMATIONS IN VANADIUM-TANTALUM ALLOYS 67-12 M13-82424
THERMODYNAMIC PROPERTIES OF SOLID MAGNESIUM-NICKEL ALLOYS 67-12 M15-82420

INTERMETALLICS, ABRASION
PHASE TRANSFORMATIONS AND PROPERTIES OF CUTTING TOOL ALLOYS WITH INTERMETALLIC STRENGTHENING PHASES 67-04 M17-66366

INTERMETALLICS, ACOUSTIC PROPERTIES
INFLUENCE OF THE SAMPLE GEOMETRY ON FREQUENCY AND Q-VALUE OF THE HELICON RESONANCE IN PBTE 67-10 M16-79356

INTERMETALLICS, ALLOYING ADDITIVE
PHASE ANALYSIS OF EP164 AND E1725 STEELS AND EI893 ALLOY 67-09 M13-76966

INTERMETALLICS, ALLOYING EFFECTS
EFFECT OF VANADIUM AND MOLYBDENUM ON THE PROPERTIES AND PHASE CONVERSIONS OF THE METALLIDE TICR2 67-02 M13-62181

INTERMETALLICS, ATOMIC PROPERTIES
MAGNETIC HYPERFINE STRUCTURE OF THE GD155 LEVELS IN METALLIC GADOLINIUM AND IN THE INTERMETALLIC COMPOUND GDAL2 67-05 M16-69028
HYPERFINE INTERACTIONS AT FE57 NUCLEI IN INTERMETALLIC COMPOUNDS OF THE FE-MN SYSTEM WITH THE BETA-MANGANESE STRUCTURE 67-07 M16-73529
STRENGTH OF THE S-F EXCHANGE INTERACTION IN RARE-EARTH INTERMETALLICS 67-08 M16-75006
THE BAND EDGE AND THE ENERGY SPECTRUM OF IN2SE 67-10 M16-79020

INTERMETALLICS, ATOMIC STRUCTURE
LOCAL ORDER IN SOLID ALLOYS. PT. 1 67-08 M13-75338

INTERMETALLICS, CORROSION
ELECTROCHEMICAL AND CORROSION BEHAVIOR OF BINARY ALLOYS AND ALUMINUM-BASE INTERMETALLIC COMPOUNDS 67-02 M18-60786
INFLUENCE OF ACIDITY ON CORROSION OF AL-SB ALLOYS 67-05 M18-69832
CORROSION BEHAVIOR 67-07 M18-73685

INTERMETALLICS, CRYSTAL GROWTH
EPITAXIAL FILMS OF ZNTE ON IONIC SUBSTRATES 67-02 M14-59013
FORMATION TECHNIQUES 67-07 M01-73677
GROWING MGZN2 SINGLE CRYSTALS FROM THE VAPOR PHASE 67-07 M14-72451
A NEW SYNTHESIS OF 6-METHYL-3-PYRIDINOL 67-11 M14-80705

INTERMETALLICS, CRYSTAL LATTICES
CRYSTAL STRUCTURES AND DENSITIES. INTERMETALLIC PHASES. PT. 3 67-01 M13-58507
STUDY OF IRON-NICKEL ALLOYS CLOSE TO NI3FE IN COMPOSITION. ORDERED STRUCTURE AS A FUNCTION OF HEAT TREATMENT 67-01 M14-57168
LATTICE MODULATIONS IN THE CUAU ALLOY 67-01 M14-58751
THE CRYSTAL STRUCTURES OF LUMN5 AND THE RMN12 COMPOUNDS --WHERE R EQUALS GD, TB, DY, HO, ER AND TM-- 67-02 M13-59096
RARE EARTH COBALT COMPOUNDS WITH THE A2B17 STRUCTURE 67-02 M13-59097
THE PARTIAL STRUCTURE FACTORS OF LIQUID CU-SN 67-02 M13-60808
ANOMALOUS CONTRAST FROM AN ANTI-PHASE DOMAIN BOUNDARY IN BETA-BRASS 67-02 M13-60815
THE CRYSTAL STRUCTURE OF CEFE7, PRFE7, NDFE7 AND

SMFE7 67-02 M13-60888
COMPOUNDS WITH TH6MN23-TYPE STRUCTURES IN ALLOYS OF THE RARE-EARTH METALS WITH MANGANESE AND IRON 67-02 M13-61789
MONTE CARLO STUDIES OF VACANCY MIGRATION IN BINARY ORDERED ALLOYS 67-02 M14-60595
ISOTHERMAL ORDERING OF NI4MO ALLOY 67-02 M14-62239
DISLOCATION MORPHOLOGY IN SHOCK DEFORMED BCC AND FCC METALS AND ALLOYS 67-04 M13-66071
VACANCY CLUSTERS IN CU3AU ALLOY 67-04 M13-66650
L2TE5 TELLURIDES OF RARE EARTH METALS 67-04 M14-66341
X-RAY INVESTIGATIONS IN THE V-AS-C SYSTEM 67-04 M14-67055
ORDERED ALLOYS OF THE GOLD-PALLADIUM SYSTEM. PT. 2. ELECTRON DIFFRACTION STUDY ON EVAPORATED AUPD3 FILMS 67-04 M14-67477
ORDERING PROCESSES AND STRAIN AGEING OF TERNARY ORDERED ALLOYS BASED ON NI3FE 67-04 M14-67641
COMPOUND OF RARE EARTH ELEMENTS WITH PB HAVING A GENERAL CHEMICAL FORMULA M5X3 67-05 M13-69128
KIKUCHI MAPS FOR HCP AND BCC CRYSTALS 67-05 M13-69221
DISLOCATION IN THE DIRECTION --110-- AND HARDENING OF ALLOY WITH LI2 STRUCTURE 67-05 M13-69470
AN ANALYSIS OF LATTICE VIBRATIONS OF ORDERED FE3AL 67-05 M14-69577
CRYSTAL STRUCTURE OF ZR5SI4 67-05 M14-69850
EU2NI17 AND EUNI5 COMPOUNDS AND THEIR CRYSTAL STRUCTURES 67-06 M13-69996
STRUCTURE OF THE TWO NEW INTERMETALLIC PHASES-- SRCU5 AND BAPD5 67-06 M13-70120
THE CRYSTAL STRUCTURE OF MOALB 67-06 M13-70455
ON THE ALB2 TYPE PHASES 67-06 M13-71860
LOW TEMPERATURE STRUCTURAL TRANSFORMATION IN NB3SN 67-06 M14-70574
ULTRASONIC MEASUREMENT IN SINGLE-CRYSTAL NB3SN 67-06 M16-69917
TENSILE RESULTS IN ORDERED AND DISORDERED NI3FE SINGLE CRYSTALS 67-06 M17-72240
STRUCTURES OF NEW RARE-EARTH COMPOUNDS. PT. 2 67-07 M13-72449
D88 PHASES OF THE RARE EARTH ELEMENTS WITH TIN AND LEAD 67-07 M13-73437
TERNARY COMPOUNDS WITH A SUPERLATTICE OF THMN12 TYPE IN THE YTTRIUM-TRANSITION METAL-ALUMINUM SYSTEMS 67-07 M13-73480
CRYSTALLINE STRUCTURES OF CERTAIN COMPOUNDS OF RARE-EARTH METALS WITH CADMIUM 67-07 M13-73482
LATTICE DEFECTS 67-07 M13-73675
THE CRYSTAL STRUCTURE OF TANI3 AND ITS CHANGE ON COLD WORKING 67-07 M13-73922
DOMAIN STRUCTURE OF ORDERED EQUIATOMIC PT-CO OBSERVED IN THE FIELD-ION MICROSCOPE 67-07 M14-72629
EXPERIMENTAL STUDIES ON DYNAMIC MULTIPLE REFLECTIONS OBSERVED IN THIN FILMS OF METALS AND ALLOYS BY ELECTRON DIFFRACTION 67-08 M13-74414
STUDY OF LONG PERIOD ORDERED ALLOYS BY X-RAY DIFFRACTION 67-08 M13-74415
SOME C11 B-TYPE COMPOUNDS OF SC, Y AND THE LANTHANIDES WITH CU, AG AND AU 67-08 M13-74784
ZINC-RICH PHASES OF THE RARE-EARTH-ZINC ALLOYS 67-08 M13-75290
STRUCTURAL CHARACTERISTICS AND CRYSTALLOCHEMISTRY OF BINARY MAGNESIUM COMPOUNDS 67-08 M13-75437
THE REFINEMENT OF THE STRUCTURES OF THE INTERMETALLIC PHASES REAL6 AND TCAL6 67-08 M13-76137
LONG-RANGE ORDER IN SOLID ALLOYS. PT. 2 67-08 M14-75339
THE CRYSTAL STRUCTURE OF HEXAGONAL RH2AL3 67-09 M13-76383
THE CRYSTAL STRUCTURES OF CR11GE19, MO13GE23 AND V17GE31 67-09 M13-76451
THE CRYSTAL STRUCTURES OF RH10GA17 AND IR3GA5 67-09 M13-77301
NOTE ON THE STRUCTURES OF T8FE2 AND T8FE3 67-10 M13-78562
CHARACTERIZATION OF POINT DEFECTS IN NONSTOICHIOMETRIC COMPOUNDS FROM THERMODYNAMIC CONSIDERATIONS 67-10 M13-79116
THE CRYSTAL STRUCTURE OF THE CEAL COMPOUND 67-10 M13-79588
THE CRYSTAL STRUCTURE OF HO4CO3 67-10 M13-79685
X-RAY STUDY OF PROTON-INDUCED DISORDER IN CU3AU 67-10 M14-79159
THE CRYSTAL STRUCTURE OF THE M PHASE, NB-NI-AL 67-11 M13-80489
TEMPERATURE-DEPENDENT VARIATIONS OF THE EQUILIBRIUM ORDER PARAMETER OF THE HEXAGONAL LONG-RANGE ORDERED PHASE 1 IN THE CADMIUM-MAGNESIUM ALLOY OF STOICHIOMETRIC COMPOSITION, CDMG3 67-11 M14-81563
STRUCTURE OF THE BAND SPECTRUM OF THE CUBR MOLECULE. PT. 1. ROTATIONAL STRUCTURE OF THE C SYSTEM FO CU63BR81 67-11 M16-80332
ELECTRON ENERGY LEVELS IN CU3AU 67-11 M16-81483
CONCERNING A NEW TERNARY PHASE, NBMNSI 67-12 M13-82286
PROPERTIES OF SN ALLOYS CONTAINING SM, EVIDENCE FOR A NEW PHASE 67-12 M13-82513
THE COMPOSITIONS, AG8MX6, WHERE M EQUALS SI, GE, SN AND X EQUALS S, SE, TE 67-12 M13-82514

INTERMETALLICS, CRYSTAL STRUCTURE
THE CRYSTAL STRUCTURE OF MO5AS4 67-01 M13-58510
THE CRYSTAL STRUCTURES OF THE RARE-EARTH COMPOUNDS OF THE FORM R2NI17, R2CO17 AND R2FE17 67-01 M13-58536
THE CRYSTAL STRUCTURE OF MO3SB7 67-05 M13-69227

INTERMETALLICS, DEPOSITION
COMPOSITION AND STRUCTURE OF NICKEL LAYERS, CONDENSED ONTO NIOBIUM 67-06 M12-72379

INTERMETALLICS, DIFFUSION
FORMATION OF THE ALLOY LAYER IN THE FE-AL DIFFUSION COUPLES 67-02 M14-60154
DIFFUSION OF LI IN INSB 67-02 M16-60520
INTERDIFFUSION IN THE CU-ZN SYSTEM 67-04 M14-67145
ISOTOPE EFFECT FOR THE DIFFUSION OF ZINC IN COPPER, AND ORDERED AND DISORDERED CUZN 67-06 M14-69909
DIFFUSION IN POLYPHASE ALLOY SYSTEMS 67-06 M14-71858
DIFFUSION OF COBALT IN CU3AU ALLOY 67-07 M14-73313
CU DIFFUSION IN ELECTRODEPOSITED PERMALLOY FILMS 67-07 M14-73591
DIFFUSION 67-07 M14-73680

INTERMETALLICS, ELECTRICAL PROPERTIES
THERMOELECTRIC POWER AND ELECTRICAL RESISTIVITY OF CU3AU DOPED WITH 3D TRANSITION METALS 67-01 M15-57476
ELECTRICAL PROPERTIES OF GASB-GA2TE3 AND GASB-GATE SOLID SOLUTIONS 67-02 M15-61521
ENHANCEMENT OF SUPERCONDUCTING CRITICAL CURRENT DENSITY IN NB3SN DIFFUSION LAYERS PRODUCED BY IRRADIATION WITH PROTONS 67-03 M16-65110
ELECTRICAL RESISTIVITY, ELASTIC MODULUS, AND DEBYE TEMPERATURE OF TITANIUM DIBORIDE 67-06 M15-71058
THE THERMAL CONDUCTIVITY OF GAP AND ALSB 67-07 M15-72750
STUDY OF THE EFFECT OF MAGNETIC ORDERING ON THE ELECTRICAL RESISTIVITY OF GDAL2 67-07 M15-73314
BOND CHARACTER AS REVEALED BY ELECTRONIC PROPERTIES 67-07 M15-73664
ELECTRONIC PROPERTIES AND APPLICATIONS 67-07 M16-73688
INTERACTION OF CONDUCTION AND INDUCED CURRENTS IN NB3ZR WIRES SUBJECTED TO AXIAL FIELDS 67-08 M15-75553
ELECTRIC AND THERMOELECTRIC EFFECTS IN A SOLID SOLUTION OF ZNXCD1-XSB 67-09 M15-76737
ELECTRICAL RESISTIVITY OF SMAG, SMCU AND SMAU 67-09 M15-77455
PREPARATION OF CU2SE SINGLE CRYSTALS AND INVESTIGATION OF THEIR ELECTRICAL PROPERTIES 67-10 M15-79004
THE ELECTRICAL RESISTIVITY OF AU4V 67-11 M15-80185

INTERMETALLICS, ETCHING
DISTINGUISHING BETWEEN IRON CARBIDE AND IRON PHOSPHIDE BY ETCHING 67-01 M13-57385

INTERMETALLICS, EVAPORATION

INTERMETALLICS

SUPERCONDUCTING HOMOGENEOUS INTI AND PBBI FILMS EVAPORATED FROM A SINGLE SOURCE 67-08 M12-76152

INTERMETALLICS, EXTRUSION
EFFECT OF HYDROSTATIC EXTRUSION ON THE MECHANICAL PROPERTIES OF CUZN AND TINI 67-11 M17-81529

INTERMETALLICS, LATTICE PARAMETERS
MICRODIFFRACTION OF ELECTRONS APPLIED TO METALLOGRAPHY 67-01 M13-58127

INTERMETALLICS, MAGNETIC PROPERTIES
DOMAIN STRUCTURE OF HEXAGONAL FERRIMAGNETIC OXIDES WITH HIGH ANISOTROPY FIELD 67-01 M15-57120
MAGNETIC PROPERTIES OF THE INTERMETALLIC COMPOUNDS OF COBALT WITH THE RARE EARTH METALS AND YTTRIUM 67-01 M15-58648
MAGNETIC PROPERTIES OF RARE-EARTH-IRON INTERMETALLIC COMPOUNDS 67-01 M15-58655
MAGNETIC PROPERTIES OF RARE EARTH-MANGANESE COMPOUNDS 67-01 M15-58662
OSCILLATORY MAGNETOSTRICTION IN N-GALLIUM ANTIMONIDE 67-01 M16-58579
EVIDENCE FOR ITINERANT ELECTRON FERROMAGNETISM IN ZRZN2 67-01 M16-58636
MAGNETIC STRUCTURE OF THE ZETA PHASE OF PD3MN2 ALLOY 67-02 M15-59066
INFLUENCE OF DISK-LIKE PRECIPITATES ON THE COERCIVE FORCE IN ALPHA IRON 67-02 M15-61038
MAGNETIC PROPERTIES OF DYAL2 AND NDAL2 67-02 M15-61837
MAGNETOELASTIC PROPERTIES OF THE ANTIFERROMAGNETIC COMPOUND MNAU2 67-02 M15-61923
NUCLEAR MAGNETIC RESONANCE OF CUBIC FERROMAGNETIC COMPOUNDS CO2MNSN AND COMNSB 67-02 M16-59472
IRRADIATION OF HEUSLER ALLOYS 67-02 M16-61116
MAGNETIC CHARACTERISTICS OF SOME 1..1 COMPOUNDS OF THE LANTHANIDES WITH GOLD AND ALUMINUM 67-03 M15-65130
MAGNETIC PROPERTIES OF THE INTERMETALLIC COMPOUNDS OF COBALT WITH THE RARE EARTH METALS AND YTTRIUM 67-04 M15-66191
MAGNETIZING FINELY-DISPERSED PARTICLES OF FE-CO ALLOY 67-04 M15-66480
EFFECT OF SPECIMEN SIZE ON FORMATION OF MAGNETIC PROPERTIES IN CO-PT ALLOY 67-04 M15-66483
ANTIFERRO-FERROMAGNETIC TRANSITION IN FE --PTPD--3 ALLOYS 67-04 M15-67662
TEMPERATURE-MAGNETIC HYSTERESIS IN THE HIGH-COERCIVITY ALLOY CO-PT 67-05 M15-68259
MAGNETIC AND PARAMAGNETIC RESONANCE PROPERTIES OF EUAL4 67-05 M15-68282
INVESTIGATION OF THE STRUCTURAL AND MAGNETIC CHEMISTRY OF COMPLEX CARBIDES 67-05 M15-68614
MAGNETIC BEHAVIOR OF CE IN ITS INTERMETALLIC COMPOUNDS. PT. 6. CE-BE, CE-B AND CE-C SYSTEMS 67-05 M15-69351
MAGNETIC STRUCTURE TRANSFORMATION IN MNPT 67-05 M15-69375
NUCLEAR MAGNETIC RESONANCE IN AN INBI INTERMETALLIC COMPOUND 67-05 M16-69106
NMR STUDY OF TWO ENERGY GAPS IN SUPERCONDUCTING COMPOUNDS 67-05 M16-69767
NUCLEAR MAGNETIC RESONANCE AND MOSSBAUER EFFECT STUDY OF SN119 IN RARE EARTH-TIN INTERMETALLIC COMPOUNDS 67-05 M16-69788
MOSSBAUER EFFECT STUDY OF BCC STRUCTURE ALLOYS, FEAL AND FETI 67-06 M15-70418
FERROMAGNETISM IN THE INTERMETALLIC PHASE NI3AL 67-06 M15-71993
CU-NMR IN PARAMAGNETIC AND FERROMAGNETIC CUCR2SE4 67-07 M15-73297
ANGULAR VARIATION OF COERCIVE FORCE IN PERMANENT MAGNET MATERIALS 67-07 M15-73511
EFFECTS OF MECHANICAL AND THERMAL TREATMENT ON THE STRUCTURE AND MAGNETIC TRANSITIONS IN FERH 67-07 M15-73549
INVESTIGATION OF THE FIRST-ORDER MAGNETIC TRANSFORMATION IN MN3PT 67-07 M15-73550
DIRECT OBSERVATION OF DOMAIN-WALL MOVEMENTS IN MNBI FILMS 67-07 M15-73557
PARALLEL OBLIQUE-INCIDENCE ANISOTROPY IN NIFE FILMS 67-07 M15-73574
MAGNETOCRYSTALLINE ANISOTROPY OF TWO YTTRIUM-COBALT COMPOUNDS 67-07 M15-73583
MAGNETIC PROPERTIES OF PRAL2 67-07 M15-73588
MAGNETIC PROPERTIES 67-07 M15-73687
NUCLEAR MAGNETIC RESONANCE AND SUSCEPTIBILITY MEASUREMENTS IN INTERMETALLIC COMPOUNDS 67-07 M16-73147
FERROMAGNETISM IN AU4V 67-08 M15-74565
NEUTRON DIFFRACTION STUDY OF FESN 67-08 M15-76170
MAGNETIC PROPERTIES OF ZRZN2--ITINERANT ELECTRON FERROMAGNET 67-08 M15-76171
MOSSBAUER EFFECT STUDY OF FERROMAGNETISM AND FERROMAGNETIC RELAXATION IN ERAL2 67-08 M16-74471
HIGH-PRESSURE STUDY OF THE FIRST-ORDER PHASE TRANSITION IN MNAS 67-08 M16-75930
MAGNETIC STRUCTURE OF DYAG 67-09 M15-76660
ATOMIC AND MAGNETIC ORDER IN MN2PD3 67-09 M15-77673
MAGNETIC STRUCTURE OF INTERMETALLIC COMPOUND PRCO2 67-09 M15-77971
NUCLEAR MAGNETIC RESONANCE IN RARE-EARTH-ALUMINUM INTERMETALLIC COMPOUNDS.. RAL3 67-09 M16-77019
MOSSBAUER STUDY OF INTERMETALLIC FE5GE3 SYSTEM 67-10 M15-78442
EFFECT OF PRESSURE ON THE CURIE TEMPERATURE OF CRTE AND MNSB COMPOUNDS OF NICKEL ARSENIDE TYPE 67-10 M15-78717
MAGNETIC PROPERTIES OF THE COMPOUND MN3GE2 IN STRONG MAGNETIC FIELDS 67-10 M15-79540
INTERNAL MAGNETIC FIELDS AT SN119 NUCLEI IN HEUSLER ALLOYS 67-11 M15-80783
MAGNETIC SUSCEPTIBILITIES OF SOME RARE-EARTH-ZINC --RZN2-- INTERMETALLIC COMPOUNDS 67-12 M15-82360

INTERMETALLICS, MECHANICAL PROPERTIES
TEMPERATURE AND STRAIN-RATE DEPENDENCE OF THE FLOW STRESS OF AGMG SINGLE CRYSTALS 67-01 M17-57110
CERAMIC PARTS 67-02 M05-61100
THE DEFORMATION PROPERTIES AND ELECTRON MICROSCOPY STUDIES OF THE INTERMETALLIC COMPOUND NIAL 67-02 M17-58963
THE OPERATIVE SLIP SYSTEM AND GENERAL PLASTICITY OF NIAL. PT. 2 67-02 M17-60640
ALLOY PROPERTIES ON AN ALUMINIDE BASE 67-02 M17-62180
EFFECT OF THE CONDITIONS OF MELTING AND ANNEALING ON THE TRANSITION OF METALLIC COMPOUNDS FROM BRITTLE STATE INTO DUCTILE 67-03 M17-65789
ELASTIC PROPERTIES OF NITI AS A FUNCTION OF TEMPERATURE 67-04 M17-66116
OXIDE DISPERSION-STRENGTHENED NIAL AND FEAL 67-04 M17-66933
ELEVATED-TEMPERATURE DEFORMATION MECHANISMS IN BETA PRIME-NIAL 67-04 M17-66939
ON THE BRITTLENESS OF METALLIC COMPOUNDS 67-05 M17-68970
THE ELASTIC CONSTANTS OF MGAG AND MGCU2 SINGLE CRYSTALS 67-05 M17-69575
ELASTIC CONSTANTS AND CALCULATED LATTICE VIBRATION FREQUENCIES OF MG2SN 67-05 M17-69576
THE EFFECT OF TRIAXIAL STRESS SYSTEMS ON BRITTLE FRACTURE AND ON THE BRITTLE-DUCTILE TRANSITION 67-06 M17-70631
INFLUENCE OF TEMPERATURE AND COOLING RATE ON PROPERTIES OF AL-ZN-MG ALLOYS 67-06 M17-72368
THERMAL EXPANSION AND ELASTIC CONSTANTS OF BETA PRIME PHASE-AGMG. PT. 2. SINGLE-CRYSTAL ELASTIC CONSTANTS FROM 77 TO 750 K 67-07 M17-72639
ELASTIC BEHAVIOR 67-07 M17-73683
MECHANICAL PROPERTIES--PLASTIC BEHAVIOR 67-07 M17-73684
PROPERTIES OF ALLOYS BASED ON THE ALUMINIDE TI3AL 67-08 M17-75956
THE PLASTICITY OF BETA AND BETA PRIME INTERMETALLIC COMPOUNDS 67-09 M17-77739
RELATION BETWEEN THE DIFFUSION AND CREEP PROPERTIES OF METAL COMPOUNDS 67-11 M17-81424
TEMPERATURE AND ORIENTATION DEPENDENCE OF THE FLOW STRESS IN OFF-STOICHIOMETRIC NI3AL --GAMMA PHASE-- 67-12 M17-82719

INTERMETALLICS, METALLOGRAPHY
SEPARATION OF INTERMETALLIC PHASE AND CARBIDE PHASE IN NI-CR-TI-AL-C ALLOY 67-02 M13-62187
EXAMINATIONS ON ELECTROLYTIC CONDITIONS FOR ISOLATING AND ETCHING INTERMETALLIC COMPOUNDS IN ALLOYS 67-11 M13-80952

INTERMETALLICS, MICROSTRUCTURE
COLOR METALLOGRAPHY IN BLACK AND WHITE 67-02 M13-59440

EFFECT OF THE STRUCTURE OF AN INTERMETALLIC COMPOUND ON THE THERMODYNAMIC PROPERTIES OF METALLIC SYSTEMS 67-04 M13-66013
ANTIPHASE STRUCTURE OF THE ALLOY FE3AL 67-05 M13-69335
THE MORPHOLOGY OF SOME BINARY EUTECTIC ALLOYS 67-08 M14-74519
DISCREPANCIES FROM A PERFECT MATCH IN THE ETCH PATTERNS ON THE OPPOSITE CLEAVAGE FACES IN BI2TE3 67-09 M13-77447

INTERMETALLICS, MOSSBAUER EFFECT
MOSSBAUER STUDY ON FESN AND FE3SN 67-04 M15-68063
MOSSBAUER EFFECT IN THE INTERMETALLIC COMPOUNDS CO1.4SN AND NI1.4SN 67-06 M15-71368

INTERMETALLICS, NEUTRON DIFFRACTION
NEUTRON DIFFRACTION OF CR2NIS4 67-04 M13-67731

INTERMETALLICS, NUCLEAR PROPERTIES
RELAXATION PHENOMENA IN MOSSBAUER SPECTRA OF 170YB IN INTERMETALLIC COMPOUNDS OF YTTERBIUM 67-04 M16-66182

INTERMETALLICS, OPTICAL PROPERTIES
THE REFLECTANCE OF THE INTERMETALLIC COMPOUNDS NIAL AND COAL 67-03 M15-65640
LOCALIZED MODES OF SUBSTITUTIONAL IMPURITIES IN INTERMETALLIC COMPOUNDS 67-04 M16-66744
OPTICAL PROPERTIES OF THE INTERMETALLIC COMPOUNDS AUAL2, AUGA2 AND AUIN2 67-10 M15-78907

INTERMETALLICS, ORDER DISORDER
NATURE OF THE ORDER-DISORDER TRANSFORMATION IN THE ALLOY MG3CD 67-02 M14-61922
ON SOME PARTICULARITIES OF THE CHANGE IN THE ELECTRICAL RESISTIVITY OF COPPER-GOLD ALLOYS NEAR THE CUAU COMPOSITION 67-04 M15-67050
FEATURES OF THE AB2 SUPERSTRUCTURE --PT2MO-TYPE-- IN A FACE-CENTERED CUBIC LATTICE 67-05 M14-68240

INTERMETALLICS, OXIDATION
SOME PHYSICAL AND CHEMICAL PROPERTIES OF RARE-EARTH METAL SILICIDES 67-01 M15-58200

INTERMETALLICS, PHASE DIAGRAMS
THE QUASIBINARY SYSTEM INTI-INBI 67-02 M13-59441
INTERACTIONS BETWEEN THE COMPOUND NIAL AND NIOBIUM 67-02 M13-59891
STUDY OF THE MG2SN-MG2SI SYSTEM 67-04 M13-67939

INTERMETALLICS, PHASE TRANSFORMATIONS
INTERMEDIATE PHASES IN THE MAGNESIUM-CERIUM SYSTEM BETWEEN MAGNESIUM AND MG3CE 67-01 M13-57500
THE ORDER-DISORDER TRANSFORMATION IN CU3AU AT HIGH PRESSURE 67-05 M14-69210
PHASE DECOMPOSITION IN NEAR NI3AL ALLOYS 67-06 M14-69941
TRANSMISSION ELECTRON MICROSCOPY OF VANADIUM-SILICON --V3SI-- AT LOW TEMPERATURES 67-07 M13-73624
CRYSTALLOGRAPHIC TRANSFORMATIONS 67-07 M14-73682
THERMODYNAMIC PROPERTIES 67-07 M15-73663
OBSERVATION OF A MARTENSITIC TRANSFORMATION IN THE COMPOUND NIAL 67-08 M14-75581
THE MARTENSITIC TRANSFORMATION IN TI-NI ALLOYS OF NEAR-EQUIATOMIC COMPOSITION 67-08 M14-76217
THE TRANSFORMATIONS OF A CD-MG ALLOY WITH A STOICHIOMETRIC COMPOSITION OF CDMG3 67-10 M14-79874
RECOVERY PROCESSES AND ORDERING IN NI3AL 67-12 M14-83262
A VARIABLE TEMPERATURE LIQUID HELIUM STAGE FOR METALLOGRAPHIC STUDIES OF SUPERCONDUCTING MATERIALS 67-12 M16-83402

INTERMETALLICS, PHASES /STATE OF MATTER/
A GAMMA-PHASE IN THE PLUTONIUM-MERCURY SYSTEM 67-01 M13-58537
LAVES PHASES OF THE SCANDIUM GROUP ELEMENTS WITH RUTHENIUM, RHODIUM, OSMIUM, IRIDIUM, AND PLATINUM 67-02 M13-59443
THERMOCHEMICAL AND STRUCTURAL ASPECTS OF THE REACTION OF HYDROGEN WITH ALLOYS AND INTERMETALLI COMPOUNDS OF ZIRCONIUM 67-02 M14-59020
FORMATION AND GROWTH OF INTERMETALLIC COMPOUNDS IN THE CU-ZN SYSTEM 67-04 M14-66014
STRUCTURE OF THE TAV2 PHASE 67-05 M13-69238
LAVES PHASES IN THE SCANDIUM-IRON SYSTEM 67-06 M13-70907
COEXISTING PHASES IN PARTIALLY ORDERED MNNI3 67-06 M13-71997
CONSTITUTION OF BINARY ALLOYS OF GADOLINIUM, DYSPROSIUM, HOLMIUM AND ERBIUM WITH MANGANESE 67-06 M14-71861
CRYSTALLINE STRUCTURES OF COMPOUNDS ZR2NI21B6 AND ZR2CO21B6 67-07 M13-73481
TOPOLOGICALLY CLOSE-PACKED STRUCTURES 67-07 M13-73672
MISCELLANEOUS STRUCTURES OF FIXED STOICHIOMETRY 67-07 M13-73673
EFFECT OF VANADIUM AND MOLYBDENUM ON THE PROPERTIES AND PHASE TRANSFORMATIONS OF THE INTERMETALLIC COMPOUND TICR2 67-08 M13-75957
NEW VANADIUM COMPOUNDS WITH A CR3SI TYPE STRUCTURE 67-08 M14-74864
INTERMETALLIC PHASES IN THE SYSTEMS OF ZINC WITH LANTHANUM, CERIUM, PRASEODYMIUM, NEODYMIUM, AND YTTRIUM 67-09 M13-77722
APPLICATION OF A THEORY OF PHASE FLUCTUATIONS INSPIRED BY THE BARTENEV THEORY TO THE CRITICAL TRANSFORMATION AUCU3 1 TO AUCU3 ALPHA 67-11 M14-81564
SOME NEW PHASES OF THE MN5SI3 TYPE 67-12 M14-82052

INTERMETALLICS, PHYSICAL PROPERTIES
INTERMETALLIC COMPOUNDS IN THE RARE-EARTH METALS-ALUMINUM SYSTEMS AND SOME OF THEIR PROPERTIES 67-02 M13-62185
THE INFLUENCE OF EXCESS NONSTOICHIOMETRIC BI ON THE THERMAL CONDUCTIVITY OF CRYSTAL LATTICES OF BI2TE3, BI2TE3-SB2-TE3 AND BI2TE3-BI2S3 WITH IODINE ADDITIONS 67-03 M15-65383
ENGINEERING PROPERTIES OF SELECTED CERAMIC MATERIALS 67-07 M05-73875
A THERMODYNAMIC INVESTIGATION OF THE COMPOUNDS, IN3SBTE2, INSB, AND INTE 67-11 M15-81348

INTERMETALLICS, POWDER METALLURGY
ULTRASONIC ACTIVATION DURING PRODUCTION OF REFRACTORY METAL POWDER COMPACTS 67-02 M09-62188
PROPERTY VARIATIONS DUE TO SINTERING OF BI2TE3 THERMOELEMENTS MADE BY POWDER METALLURGY 67-11 M09-81068

INTERMETALLICS, PRECIPITATION
A STUDY OF PRECIPITATION IN STAINLESS AND MARAGING STEELS USING THE MOSSBAUER EFFECT 67-01 M14-58463
PRECIPITATION AND COAGULATION OF INTERMETALLIC PHASES IN MULTICOMPONENT IRON ALLOYS 67-05 M14-69265

INTERMETALLICS, RADIATION EFFECTS
CHANGES PRODUCED IN THERMOELECTRIC MATERIALS BY THERMAL-NEUTRON IRRADIATION 67-11 M16-80304

INTERMETALLICS, REACTIONS /CHEMICAL/
HIGH-TEMPERATURE OXIDATION. PT. 3. ZIRCONIUM AND HFANIUM DIBORIDES 67-02 M14-61768
BONDING AS REVEALED BY CATALYTIC BEHAVIORS 67-07 M14-73667
INTERMETALLIC COMPOUND FORMATION BETWEEN COBALT AND ZINC IN MERCURY 67-08 M14-74677
LABORATORY STUDIES OF THE FORMATION OF THE INTERMETALLIC LAYER IN TINPLATE 67-08 M18-74670

INTERMETALLICS, SEMICONDUCTORS
SOME CROSS-SUBSTITUTIONAL ALLOYS OF CDTE 67-02 M16-61765

INTERMETALLICS, SINGLE CRYSTALS
MAGNETOCRYSTALLINE ANISOTROPY OF YCO5 AND Y2CO17 67-01 M15-58656
THE CRYSTAL STRUCTURE OF CE5MG42 67-06 M13-71404

INTERMETALLICS, SOLID SOLUTIONS
THE V3SI-V3GA SYSTEM 67-06 M14-71397

INTERMETALLICS, SUPERCONDUCTIVITY
MAKING EFFECTIVE USE OF SUPERCONDUCTING MAGNETS 67-01 M16-57233
SUPERCONDUCTIVITY DEGRADATION IN BETA-TUNGSTEN STRUCTURE COMPOUNDS-NB3SN--CB3SN AND NB3AL 67-01 M16-57408
GE, SN, AL AND BE SOLID SOLUTIONS IN THE V3SI COMPOUND AND THEIR SUPERCONDUCTIVITY 67-02 M13-58866
PROCESSING OF V3GA WIRES AND THEIR SUPERCONDUCTING PROPERTIES 67-02 M16-60517
ENERGY GAP OF V3SI 67-02 M16-60532
SUPERCONDUCTING PROPERTIES OF NB6SN5 AND OF MUTLPHASE NB-SN ALLOYS 67-03 M16-65888
SUPERCONDUCTIVITY AND SOME OF ITS APPLICATIONS 67-04 M16-66131
TRANSITION TEMPERATURE AND COMPOSITION OF THE SUPERCONDUCTING NB3SN-PHASE 67-05 M16-69092

INTERMETALLICS

ON THE SUPERCONDUCTIVITY OF HF-RH ALLOYS 67-05 M16-69342
SUPERCONDUCTIVITY OF ALPHA-URANIUM AND URANIUM COMPOUNDS AT HIGH PRESSURE 67-05 M16-69513
LATTICE INSTABILITY OF HIGH-TRANSITION-TEMPERATURE SUPERCONDUCTORS. PT. 2. SINGLE-CRYSTAL V3SI RESULTS 67-05 M16-69517
NATURE OF THE DEFECTS IN GERMANIUM TELLURIDE 67-05 M16-69578
SUPERCONDUCTIVITY AND ISOTOPE EFFECT IN BE22X COMPOUNDS AND MOLYBDENUM 67-06 M16-71989
SUPERCONDUCTIVE PROPERTIES 67-07 M16-73689
THICKNESS DEPENDENCE OF KAPPA2 AND RELATED PROBLEMS FOR SUPERCONDUCTING ALLOY FILMS IN STRONG FIELDS 67-08 M16-74944
NEW A-15 PHASES 67-08 M16-75002
FABRICATION OF MULTILAYERED NB3SN SUPERCONDUCTING WIRES 67-08 M16-75757
SUPERCONDUCTING CRITICAL CURRENTS OF V3GA WIRES MADE BY A NEW DIFFUSION PROCESS 67-10 M16-79125
EFFECT OF FAST NEUTRON IRRADIATION AT LOW TEMPERATURE ON NBZR COIL PERFORMANCE 67-11 M16-80335
ENERGY GAP OF SUPERCONDUCTING NB3SN 67-11 M16-80656
PARAMAGNETIC SUSCEPTIBILITY IN THE V3SI TYPE OF COMPOUNDS IN THE NORMAL STATE 67-11 M16-81390
V51 KNIGHT SHIFT IN THE V3SI TYPE OF COMPOUNDS IN THE NORMAL STATE 67-11 M16-81391

INTERMETALLICS, SUPERCONDUCTORS
LATTICE INSTABILITY OF HIGH-TRANSITION-TEMPERATURE SUPERCONDUCTORS. PT. 1. POLYCRYSTALLINE A-15 COMPOUNDS 67-05 M16-69516

INTERMETALLICS, SURFACE PROPERTIES
INTERNAL AND EXTERNAL INTERFACES 67-07 M13-73676

INTERMETALLICS, TEMPERATURE MEASURING INSTRUMENTS
INFLUENCE OF THE LEG SIZE AND MECHANICAL SURFACE TREATMENT ON THE THERMOELECTRIC PROPERTIES OF THERMOCOUPLES OF SB2TE3/BI2TE3 AND BI2TE3/BI2SE3 67-02 M16-60126

INTERMETALLICS, TERNARY SYSTEMS
INVESTIGATIONS ON THE SOLID SOLUTION SERIES-- Y6MN23-Y6FE23 AND YMN2-YFE2 67-09 M13-77025

INTERMETALLICS, THERMAL PROPERTIES
ANOMALOUS THERMAL CONDUCTIVITY OF CD3AS2 AND THE CD3AS2-ZN3AS2 ALLOYS 67-01 M15-57118
ANOMALOUS SPECIFIC HEAT OF NB3SN IN THE LIQUID HELIUM REGION 67-01 M15-58644
THE THERMOCHEMISTRY OF MN3SI 67-02 M15-59892
HEATS OF FUSION AND TRANSFORMATION FOR SOME METALS AND COMPOUNDS 67-02 M15-61114
THE SPECIFIC HEAT OF ZRZN2 67-03 M15-65134
NUCLEAR SPECIFIC HEATS OF MNNI AND MNNI3 67-06 M15-71998
THERMAL EXPANSION AND ELASTIC CONSTANTS OF BETA PRIME PHASE AGMG. PT. 1. THE COEFFICIENT OF THERMAL EXPANSION FROM 77 TO 800 K 67-07 M15-72638
THERMOELECTRIC PROPERTIES 67-07 M15-73686
ON THE THERMAL CONDUCTIVITY OF CDTE AND SOME CDTE1 MINUS X SX AND CDTE1 MINUS X SEX SOLID SOLUTIONS 67-10 M15-79007
STUDY OF THERMAL EXPANSION OF ALLOYS OF THE NI3AL-NI3NB SYSTEM 67-10 M15-79833

INTERMETALLICS, THERMAL STABILITY
EFFECT OF ALLOYING ON THE STABILITY OF THE STRUCTURE OF THE COMPOUND CD3SB2 IN ALLOYS IN THE CD-SB SYSTEM 67-02 M14-58982

INTERMETALLICS, THERMODYNAMICS
THERMODYNAMIC INVESTIGATIONS ON LIQUID AND SOLID MERCURY-INDIUM ALLOYS 67-04 M15-66542
HEATS OF FORMATION OF AU3ZN AND AUZN 67-09 M15-77730

INTERMETALLICS, THIN FILMS
THICKNESS OF CS-SB FILMS RELATIVE TO THE ORGINAL SB FILMS 67-01 M19-57112

INTERMETALLICS, TRANSPORT PROPERTIES
EFFECT OF SUBSTRATE TEMPERATURE ON HALL COEFFICIENT OF THIN FILMS 67-01 M15-57214
HIGH FREQUENCY PROPERTIES OF INSB UNDER A MAGNETIC FIELD 67-04 M16-67425
NEUTRON DIFFRACTION AND ELECTRICAL TRANSPORT PROPERTIES OF CUCR2SE4 67-09 M16-77013
HALL COEFFICIENT BEHAVIOR IN TIFE, TICO, TINI, AND THEIR ALLOYS 67-10 M16-79119
HELICON OSCILLATIONS IN HGSE 67-10 M16-79368
HARTREE SELF-CONSISTENT FIELD OF SEMICONDUCTOR PBSE 67-11 M16-80155

INTERMETALLICS, X RAY ANALYSIS
METHODS FOR INTERPRETING ELECTRON DIFFRACTION PATTERNS OF THIN ALLOY FILMS 67-05 M13-68439
X-RAY STUDIES IN THE SYSTEM THNI5-XALX 67-10 M13-78670

INTERNAL COMBUSTION ENGINES
SEE ALSO DIESEL ENGINES
PUSH-PULL LOW-ENDURANCE FATIGUE OF CAST IRONS AND STEELS 67-04 M17-66729
INTERNAL COMBUSTION ENGINES 67-08 M20-74827
A NEW HEAT-RESISTANT STEEL FOR INTERNAL COMBUSTION ENGINE EXHAUST VALVES 67-08 M20-75020
THE FIGHT AGAINST WEAR--INTERNAL COMBUSTION ENGINS 67-11 M20-81257

INTERNAL FRICTION
SEE ALSO BORDONI PEAK
SNOEK EFFECT
INTERNAL FRICTION IN COBALT IN THE AREA OF POLYMORPHOUS TRANSFORMATION 67-01 M17-57185
SIMPLE CONSTRUCTION FOR MEASURING INTERNAL FRICTION IN TORSION 67-01 M17-57227
AMPLITUDE DEPENDENCE OF THE INTERNAL FRICTION AND MODULUS DEFECT IN ALUMINIUM. PT. 2. INVESTIGATIONS IN THE KC/S-RANGE 67-01 M17-58342
AMPLITUDE DEPENDENCE OF THE INTERNAL FRICTION AND MODULUS DEFECT IN ALUMINIUM. PT. 3. COMBINED KC/S MC/S-INVESTIGATIONS 67-01 M17-58343
INFLUENCE OF TEMPERATURE AND INTERSTITIAL IMPURITIES ON THE ENERGY DISIPATION DURING SMALL DISLOCATION DISPLACEMENTS IN IRON 67-02 M13-59887
GRAIN-BOUNDARY SLIDING IN METALS 67-02 M13-61780
THE EFFECT OF ALUMINUM ON THE STRESS-INDUCED DIFFUSION OF CARBON ATOMS IN ALPHA IRON 67-02 M14-60158
LOW-FREQUENCY DISLOCATION INTERNAL FRICTION WITH THE EFFECT OF ANOMALOUS AMPLITUDE DEPENDENCE IN AN AL 0.5 PER CENT CU ALLOY 67-02 M15-59579
EFFECT OF THERMOMAGNETIC TREATMENT ON INTERNAL FRICTION, SHEAR MODULUS AND MAGNETIC PROPERTIES OF 66-PERMALLOY 67-02 M15-59636
THE MICROSTRAIN BEHAVIOR OF BERYLLIUM SINGLE CRYSTALS 67-02 M17-58962
DISLOCATION DAMPING IN ALUMINIUM-COPPER ALLOYS.. A QUANTITATIVE ANALYSIS 67-02 M17-58964
AMPLITUDE DEPENDENCE OF THE INTERNAL FRICTION AND MODULUS DEFECT IN ALUMINIUM. PT. 4. INVESTIGATION ON THE CRITICAL SHEAR STRESS 67-02 M17-59615
STUDY OF CHANGES OF INTERNAL DAMPING AND YOUNGS MODULUS IN HARDENED STEELS 67-02 M17-59716
CERTAIN PHYSICOMECHANICAL PROPERTIES OF AUSTENITIC-MARTENSITIC STEELS 67-02 M17-60068
EFFECT OF DEFORMATION AND AGING ON THE AMPLITUDE DEPENDENCE OF INTERNAL FRICTION IN MARTENSITE 67-02 M17-60740
INVESTIGATION OF THE EFFECT OF LIGHT MELTING METAL COATINGS ON RECRYSTALLIZED NICKEL AT VARIOUS TEMPERATURES 67-02 M17-60971
DAMPING CAPACITY ON THE ALPHA-GAMMA TRANSFORMATION OF IRON. PT. 2 67-02 M17-61172
DAMPING CAPACITY IN PLASTICALLY DEFORMED AUSTENITIC STEELS 67-02 M17-61174
DAMPING CAPACITY OF FERROMAGNETIC ALLOYS ON NICKEL BASE 67-02 M17-61183
INTERNAL FRICTION IN N-ALPHA FE SOLID SOLUTIONS WITH DIFFERENT PURITY AND GRAIN SIZE 67-02 M17-61599
EFFECT OF TEMPERING ON THE AMPLITUDE DEPENDENCE OF THE DAMPING CAPACITY OF MARTENSITE 67-02 M17-61686
EFFECT OF PLASTIC DEFORMATION ON THE AMPLITUDE DEPENDENCE OF THE DAMPING CAPACITY OF IRON 67-02 M17-61687
DAMPING CAPACITY ON THE ALPHA-GAMMA TRANSFORMATION OF IRON. PT. 1. 67-02 M17-61934
EFFECT OF PLASTIC DEFORMATION AND PRECIPITATION HARDENING ON INTERNAL FRICTION PARAMETERS OF FE-MN AND FE-NI AUSTENITIC ALLOYS 67-02 M17-62088
YIELD STRENGTH OF IRON QUENCHED FROM ALPHA REGION 67-02 M17-62092
INFLUENCE OF STRUCTURE ON THE VARIATION IN INTERNAL FRICTION WITH THE AMPLITUDE OF OSCILLATIONS IN FERROMAGNETIC METALS 67-02 M17-62192

INTERNAL FRICTION IN 18 PER CENT NI MARAGING STEELS
67-03 M15-65085
LOW-TEMPERATURE INTERNAL FRICTION IN SILICON
67-03 M16-65632
CONTRIBUTION TO THE INVESTIGATION OF INTERNAL FRICTION IN BERYLLIUM 67-03 M17-65262
INFLUENCE OF HYDROGEN ON THE MAGNETOMECHANICAL DAMPING IN NICKEL 67-03 M17-65384
DAMPING PEAKS IN DEFORMED NICKEL
67-03 M17-65867
BACKGROUND INTERNAL FRICTION OF SOME PURE METALS AT LOW FREQUENCIES 67-03 M17-65881
THE EFFECT OF CERTAIN ALLOYING ELEMENTS ON THE ELASTIC MODULUS AND THE POSITION OF INTERNAL FRICTION AT HIGH TEMPERATURE IN IRON ALLOYS
67-03 M17-65950
INTERNAL FRICTION CHARACTERISTICS OF IRON-VANADIUM-NITROGEN ALLOYS 67-04 M10-67191
INTERNAL FRICTION OF PALLADIUM CONTAINING HYDROGEN
67-04 M14-66544
THE EFFECT OF ANNEALING TEMPERATURE AND PURITY ON HIGH-TEMPERATURE INTERNAL FRICTION IN NICKEL
67-04 M15-66842
THE INFLUENCE OF THERMAL AND MECHANICAL EFFECTS ON THE AMPLITUDE DEPENDENCE OF INTERNAL FRICTION OF IRON AND ITS ALLOYS 67-04 M15-66854
INTERNAL FRICTION OF AUSTENITIC STEELS
67-04 M15-66855
THE EFFECT OF IMPERFECT CRYSTALLINE STRUCTURE ON ELASTIC AND RIGID PROPERTIES OF ALUMINUM
67-04 M15-66863
STUDY OF THE EFFECT OF CONSTANT SHEAR STRESS ON AMPLITUDE-DEPENDENT INTERNAL FRICTION
67-04 M15-66864
THE EFFECT OF THE ZN CONCENTRATION ON THE INTERNAL FRICTION OF BRASSES 67-04 M15-67234
THERMAL RELAXATION OF MECHANICAL VIBRATIONS IN POLYCRYSTALS 67-04 M15-67824
THE EFFECT OF BORON ON INTERNAL FRICTION OF PURE IRON 67-04 M15-67829
INTERNAL FRICTION AND YOUNGS MODULUS IN ANTIMONY AND BISMUTH 67-04 M15-67830
INTERNAL FRICTION IN BORON 67-04 M15-67831
STUDY OF HEAT RESISTANCE TO THERMAL CYCLIC FATIGUE IN REFRACTORY METALS BY AN INTERNAL FRICTION METHOD 67-04 M15-67833
INTERNAL FRICTION IN SINTERED BERYLLIUM
67-04 M15-67834
RELAXATION AND ELASTIC PROPERTIES OF MOLYBDENUM
67-04 M15-67837
AIRCRAFT JET TURBINE BLADES INVESTIGATED BY THE INTERNAL FRICTION METHOD 67-04 M15-67858
ANELASTICITY AND INTERNAL FRICTION DUE TO POINT DEFECTS IN CRYSTALS 67-04 M17-66222
INTERNAL FRICTION AND BASIC FATIGUE MECHANISIMS IN BODY-CENTERED CUBIC METALS, MAINLY IRON AND CARBON STEELS 67-04 M17-66227
KINKS IN DISLOCATION LINES AND THEIR EFFECTS ON THE INTERNAL FRICTION IN CRYSTALS
67-04 M17-66229
ANELASTICITY MEASUREMENTS IN THE MG-CD ALLOY SYSTEM
67-04 M17-66535
THE EFFECT OF ANNEALING TEMPERATURE ON INTERNAL FRICTION AND SHEAR MODULUS OF PURE CHROMIUM AND ALLOYS OF CHROMIUM WITH YTTRIUM AND GADOLINIUM
67-04 M17-66825
INTERNAL FRICTION AND SHEAR MODULUS OF NICKEL-CHROMIUM-BASE HEAT RESISTANT ALLOYS
67-04 M17-66826
EVALUATION OF THE CHARACTERISTICS OF DISLOCATION STRUCTURE IN MEASURING THE AMPLITUDE DEPENDENCE OF INTERNAL FRICTION 67-04 M17-66827
AMPLITUDE DEPENDENCE OF THE INTERNAL FRICTION OF IRON 67-04 M17-66843
STUDY OF ENERGY DISSIPATION DURING VIBRATIONS IN HEAT RESISTANT ALLOYS AT HIGH TEMPERATURES
67-04 M17-66856
EFFECT OF NITROGEN AND MANGANESE ON RECOVERY RATE AND FRICTION STRESS DURING CREEP OF IRON
67-04 M17-66995
FURTHER EXPERIMENTS ON THE DISLOCATION INTERNAL FRICTION PEAKS WITH ANOMALOUS AMPLITUDE EFFECT IN AL-0.5 PER CENT CU ALLOY AND THE DISLOCATION KINK ATMOSPHERE MODEL 67-04 M17-67027
INTERNAL FRICTION ON THE ALPHA-GAMMA TRANSFORMATION OF IRON. PT. 3 67-04 M17-67643
INTERNAL FRICTION METHOD OF DETERMINING THE CHARACTERISTICS OF A DISLOCATION STRUCTURE
67-04 M17-67645
INTERACTION OF THE RELAXATION SPECTRUM AND HIGH-TEMPERATURE INTERNAL FRICTION BACKGROUND OF REFRACTORY METALS 67-04 M17-67648
FATIGUE STRENGTH CRITERIA OF METALS AND ALLOYS BASED ON ENERGY DISSIPATION 67-04 M17-67819
STUDY OF TEMPER BRITTLENESS BY A METHOD USING AMPLITUDE-DEPENDENT INTERNAL FRICTION
67-04 M17-67820
INTERNAL FRICTION IN SINTERED MAGNESIUM
67-04 M17-67821
EFFECT OF TEMPERING ON THE VARIATION OF INTERNAL FRICTION AND COLD BRITTLENESS OF CARBON STEEL SUBJECTED TO CYCLIC LOAD 67-04 M17-67832
VARIATION OF INTERNAL FRICTION IN HEAT RESISTANT MATERIALS HARDENED BY THERMOMECHANICAL TREATMENT
67-05 M17-68353
RELAXATION DAMPING MAXIMA IN PLASTICALLY DEFORMED MOLYBDENUM AND NIOBIUM SINGLE CRYSTALS
67-05 M17-68577
INTERACTION BETWEEN DISLOCATIONS AND H ATOMS IN ALPHA-FE 67-05 M17-69467
STUDY OF THE INTERACTION OF DISLOCATIONS WITH IMPURITY ATOMS IN CU-MG ALLOYS
67-05 M17-69654
LOW-TEMPERATURE AGING OF DISEQUILIBRIUM D-1 ALUMINUM ALLOY 67-05 M17-69655
TEMPERATURE DEPENDENCE OF INTERNAL FRICTION IN GRAY CAST IRON 67-05 M17-69661
A ZENER-DAMPING PEAK IN FE-4 WT PER CENT SI
67-05 M17-69770
NATIONAL METALLURGICAL LABORATORY, ANNUAL REPORT
67-06 M01-71435
GRAIN BOUNDARY RELAXATION IN FOUR HIGH-PURITY FCC METALS 67-06 M13-71607
DETERMINATION OF THE TRUE DIFFUSION COEFFICIENTS AND OF THE THERMODYNAMIC ACTIVITY BY INTERNAL FRICTION METHOD 67-06 M14-70339
AN INTERNAL FRICTION PEAK IN POLYCRYSTALLINE GADOLINIUM 67-06 M15-71046
INTERNAL FRICTION MEASUREMENTS IN PLASTICALLY DEFORMED ALUMINUM AT CONSTANT VIBRATION AMPLITUDE 67-06 M17-69958
INVESTIGATION OF THE AMPLITUDE DEPENDENCE OF INTERNAL FRICTION IN IRON AT LOW TEMPERATURES
67-06 M17-70324
EFFECT OF SIZE, IMPURITY AND DEFORMATION ON THE INTERNAL FRICTION AND STRENGTH PROPERTIES OF WHISKERS 67-06 M17-70338
ON THE MECHANISM OF THE KOSTER RELAXATION PEAK
67-06 M17-70442
INTERNAL FRICTION PHENOMENA CONNECTED WITH THE GRAIN BOUNDARY IMPURITY CONCENTRATION IN A ZN-PB ALLOY 67-06 M17-70570
INTERNAL FRICTION AND CREEP OF AN ALUMINUM-ZINC EUTECTOID ALLOY 67-06 M17-71132
ELASTICITY AND ANELASTICITY OF URANIUM OXIDES AT ROOM TEMPERATURE. PT. 1. STOICHIOMETRIC OXIDE
67-06 M17-71164
TEMPERATURE DEPENDENCE OF INTERNAL FRICTION OF MO WIRE 67-06 M17-72353
RECOVERY OF INTERNAL FRICTION IN MO SINGLE CRYSTALS 67-06 M17-72355
RELAXATION SPECTRUM OF DEFORMED AL PLUS 0.25 WT PER CENT FE 67-07 M13-73983
STRESS-INDUCED SOLUTE DIFFUSION ALONG DISLOCATIONS IN DILUTE COPPER ALLOYS 67-07 M14-73911
ORIENTATION DEPENDENCE OF DISLOCATION DAMPING IN MAGNESIUM SINGLE CRYSTALS 67-07 M17-72659
ELASTIC BEHAVIOR 67-07 M17-73683
EXPERIMENTAL METHODS OF MATERIALS RESEARCH. V. 1. ADVANCES IN MATERIALS RESEARCH
67-08 M01-74690
INFLUENCE OF ULTRASOUND ON THE NITRIDING AND DENITRIDING OF STEEL 67-08 M10-75815
RECORDING EQUIPMENT FOR MEASUREMENTS OF INTERNAL FRICTION AND ELASTIC MODULUS OF METALS AT LOW FREQUENCIES 67-08 M17-74424
PRECISE, CONTINUOUS AND RAPID MEASUREMENTS OF DYNAMIC ELASTIC CONSTANTS AND INTERNAL FRICTION BY THE VIBRATOR-CONTROLLED OSCILLATOR SYSTEM
67-08 M17-74436
ANELASTIC TECHNIQUES--IRON, A CASE HISTORY
67-08 M17-74697
DAMPING OF OSCILLATIONS IN DIFFERENT METALS
67-08 M17-74961
FREQUENCY DISLOCATION INTERNAL FRICTION PEAKS WITH ANOMALOUS AMPLITUDE EFFECT IN AL-3.1 PER CENT MG ALLOY 67-08 M17-75076
ON SUBSTITUTIONAL RELAXATIONS IN AN IRON-22.5

INTERNAL FRICTION

PER CENT CHROMIUM ALLOY 67-08 M17-75583
INTERNAL FRICTION OF FE-CO-N AND FE-NI-N ALLOYS 67-09 M14-78203
RECOVERY OF THE ELASTIC MODULUS AND THE INTERNAL FRICTION OF COMMERCIAL COPPER AFTER PLASTIC DEFORMATION 67-09 M17-76675
EFFECT OF STRAIN-AMPLITUDE AND EXTERNAL MAGNETIC FIELD ON THE ROOM-TEMPERATURE INTERNAL FRICTION IN POLYCRYSTALLINE PURE IRON 67-09 M17-77259
INTERNAL FRICTION AND ELASTIC MODULUS OF SILVER THIN FILMS 67-09 M17-77785
RECRYSTALLIZATION PARAMETERS OF REFRACTORY METALS ACCORDING TO INTERNAL FRICTION DATA 67-10 M14-79906
INTERNAL FRICTION IN IRON-MANGANESE-NITROGEN ALLOYS 67-10 M17-78331
CAUSES OF THE STRONG AMPLITUDE DEPENDENCE OF INTERNAL FRICTION IN COLD STRAINED STEEL 67-10 M17-79235
INTERNAL FRICTION IN IRON-NICKEL HIGH-TEMPERATURE HARD ALLOYS 67-10 M17-79745
STUDY OF INTERNAL FRICTION OF COMMERCIAL NICKEL 67-10 M17-79902
STUDY OF CERTAIN RADIATION DEFECTS IN METALS BY MEASURING INTERNAL FRICTION AND ELASTIC MODULUS 67-10 M17-79903
EFFECT OF DEFORMATION AND TEMPERING ON INTERNAL FRICTION OF PATENTED WIRE 67-10 M17-79904
ANISOTROPY OF INTERNAL FRICTION IN TRANSFORMER STEEL 67-10 M17-80087
DIFFUSIONAL PROPERTIES OF THE STAGE-3 DEFECT IN COPPER. PT. 3. BULK DIFFUSION 67-11 M16-81082
INTERNAL FRICTION IN FCC METALS DURING ELONGATION 67-11 M17-81048
FREQUENCY DEPENDENCE OF DISLOCATION DAMPING IN SINGLE-CRYSTAL COPPER 67-11 M17-81093
INTERNAL FRICTION AND MODULUS OF RIGIDITY IN HEAT TREATED AND MECHANICALLY PROCESSED ALUMINUM 67-11 M17-81161
ON THE THEORY OF INTERNAL FRICTION OF PLASTICALLY DEFORMED METALS 67-11 M17-81418
VARIATION OF INTERNAL FRICTION IN CARBON STEEL AS A RESULT OF CYCLIC LOAD 67-11 M17-81419
INTERNAL FRICTION IN GRAY CAST IRON 67-11 M17-81661
INTERSTITIAL DIFFUSION IN THE BCC LATTICE 67-12 M14-82965
VARIATION OF INTERNAL FRICTION WITH THE EXTENT OF DEFORMATION IN MONOCRYSTALLINE AND POLYCRYSTALLINE IRON 67-12 M17-82235
DETERMINATION OF THE MAGNETOELASTIC SCATTERING CONTRIBUTION TO THE AMPLITUDE DEPENDENCE OF INTERNAL FRICTION IN CARBON STEEL 67-12 M17-82349
AMPLITUDE-DEPENDENT PART OF THE INTERNAL FRICTION OF ALUMINUM 67-12 M17-82561

INTERNAL FRICTION
CONTRIBUTION TO THE STUDY OF ELASTOPLASTIC
CONTRIBUTION TO THE STUDY OF ELASTOPLASTIC BEHAVIOR OF MONOCRYSTALLINES. PT. 1
BEHAVIOR OF MONOCRYSTALLINES. PT. 1 67-12 M17-83577

INTERNAL FRICTION, ALLOYING EFFECTS
EFFECT OF COBALT ON BRITTLE FRACTURE SUSCEPTIBILITY OF IRON 67-04 M17-66489
SOME OBSERVATIONS ON AN INTERNAL FRICTION PEAK IN AN ALUMINIUM-MAGNESIUM-SILICON ALLOY 67-06 M17-70431
HIGH-TEMPERATURE INTERNAL FRICTION IN NI-CR ALLOYS 67-08 M17-75270
EFFECT OF ALUMINUM ON THE DAMPING CURVE AND SOLUBILITY OF CARBON IN ALPHA-IRON 67-09 M17-77192

INTERNAL FRICTION, COMPOSITION EFFECTS
TRANSMISSION ELECTRON MICROSCOPIC OBSERVATION OF LOW CARBON STEELS DURING CREEP 67-07 M17-72982
RELATION BETWEEN COLD BRITTLENESS AND THE BEHAVIOR OF CARBON IN IRON IN THE PRESENCE OF MANGANESE 67-11 M17-81417

INTERNAL FRICTION, COOLING EFFECTS
VARIATION OF INTERNAL FRICTION VALUES DURING AGING OF QUENCHED AL --99.995 PER CENT PURITY-- 67-12 M17-82712

INTERNAL FRICTION, HEATING EFFECTS
ON THE CHANGE OF INTERNAL FRICTION DURING THE HIGH-TEMPERATURE AGING OF CU-FE ALLOYS 67-05 M17-69859
THE PROPERTIES OF THE LOW-TEMPERATURE INTERNAL FRICTION PEAK IN SILICON 67-10 M17-79023

INTERNAL FRICTION, IMPURITY EFFECTS
ACTIVATION ENERGY OF THE TEMPERATURE BACKGROUND OF INTERNAL FRICTION 67-04 M17-66497
IMPURITY-DOPE EFFECTS ON THE ANELASTICITY OF GRAPHITE 67-05 M17-69292
INTERNAL FRICTION OF FE-CR-N ALLOYS AND PRECIPITATION OF CHROMIUM NITRIDE 67-05 M17-69854
INFLUENCE OF NITROGEN ON MAGNETOMECHANICAL DAMPING IN CHROMIUM 67-07 M17-72654
STUDY OF THE BEHAVIOR OF INTERSTITIAL ATOMS IN MOLYBDENUM BY INTERNAL FRICTION 67-10 M17-80085

INTERNAL FRICTION, PRESSURE EFFECTS
EFFECT OF PRESSING WITH A HIGH-PRESSURE APPARATUS ON WC-CO HARD METALS 67-05 M17-69864

INTERNAL FRICTION, RADIATION EFFECTS
MODULUS EFFECTS IN METALS AFTER LOW TEMPERATURE ELECTRON IRRADIATION. PT. 2. AU 67-02 M17-60628
INTERNAL FRICTION PEAKS IN DEUTERON-IRRADIATED TUNGSTEN 67-04 M17-66056
DIFFUSIONAL PROPERTIES OF THE STAGE-3 DEFECT IN COPPER. PT. 1. EXPERIMENTAL RESULTS 67-11 M16-81080
LOW FREQUENCY INTERNAL FRICTION IN ELECTRON IRRADIATED COPPER 67-11 M16-81595
DISLOCATION PINNING IN NEUTRON-IRRADIATED OFHC AND 99.999 PER CENT COPPER 67-12 M16-82546

INTERNAL FRICTION, STRESS EFFECTS
INFLUENCE OF ULTRASONIC VIBRATION ON METALLIC FRICTION 67-01 M17-58560
INTERNAL FRICTION OF PURE AL AND ZN SINGLE CRYSTALS DURING TORSION TESTS 67-07 M17-72521

INTERNAL FRICTION, TEMPERATURE EFFECTS
FEATURES OF THE TEMPERATURE RELATIONSHIP OF INTERNAL FRICTION IN HARDENED IRON AND ALLOY STEEL 67-04 M15-66865
ELASTIC PROPERTIES OF NITI AS A FUNCTION OF TEMPERATURE 67-04 M17-66116
INTERNAL FRICTION OF ZIRCONIUM DIOXIDE AT TEMPERATURES 20 TO 1250 C 67-09 M17-76777
DISLOCATION PINNING AND TEMPERATURE DEPENDENCE OF INTERNAL FRICTION 67-12 M17-82367

INTERNAL GEARS, METAL WORKING
ROLLING ROUND GEARS ROUNDS THEM OUT 67-06 M07-70488

INTERNAL OXIDATION
PERMEABILITY, SOLUBILITY, AND DIFFUSIVITY OF OXYGEN IN BCC IRON 67-01 M14-57410
THE EFFECT OF BOUNDARY OXIDATION ON THE FORMATION OF THE SURFACE ZONE AND THE FATIGUE STRENGTH OF CASE-HARDENED SPECIMENS 67-02 M17-59531
INTERNAL OXIDATION OF CU WITH SLIGHT MG ADDITIONS 67-02 M18-60208
IDENTIFICATION AND MORPHOLOGY OF OXIDE PARTICLES IN INTERNALLY OXIDIZED CU-MN ALLOYS 67-03 M14-65215
INFLUENCE OF THE INCREASING CU CONTENT ON THE FORMATION OF AN INTERMEDIARY LAYER AT THE METAL-OXIDE INTERFACE IN THE COURSE OF OXIDATION AT 750 C. OF ZR-CU ALLOYS 67-03 M18-65860
OXIDATION OF AN FE-2.29 PER CENT NI ALLOY IN CARBON DIOXIDE AT 600-1000 C 67-04 M14-67195
INTERNAL OXIDATION OF 3 PER CENT SI STEEL 67-04 M18-67284
ELECTRON DIFFRACTION STUDY OF THE STRUCTURE OF THE SUBOXIDES OF NIOBIUM AND TANTALUM 67-05 M13-69584
RECOVERY AND RECRYSTALLIZATION OF INTERNALLY OXIDIZED AND COLD ROLLED CU-AL ALLOY 67-05 M14-69863
EFFECT OF COLD WORK ON THE OXIDATION OF FE-CR ALLOYS IN WATER VAPOUR AT 600 C 67-05 M18-68638
INTERNAL OXIDATION OF SPECIMENS OF SILVER ALLOY POWDERS 67-05 M18-69116
THE INTERNAL OXIDATION OF CU-SI ALLOYS 67-07 M14-73910
NUCLEAR-MAGNETIC-RESONANCE AND X-RAY STUDY OF SOLUTE LOSS BY INTERNAL OXIDATION IN COMMINUTED AND VACUUM-ANNEALED CU-MN ALLOYS 67-07 M15-73938
INTERNAL OXIDATION DURING CASE HARDENING OF STEELS IN ENDOTHERMIC ATMOSPHERES 67-07 M18-74176
PARTICLE COARSENING IN INTERNALLY OXIDIZED SILVER-MAGNESIUM ALLOYS 67-08 M14-75335

A STUDY ON THE INTERNAL OXIDATION OF LOW-ALLOY STEELS 67-09 M18-78234
DISPERSIONED HARDENED AG ALLOYS--NEW MATERIALS FOR ELECTRICAL CONTACTS 67-10 M10-79080
THE ORIGIN OF FRACTURES IN AG-CDO COMPOSITE MATERIALS 67-10 M17-79078
INTERNAL OXIDATION OF AGAL AND AGMG ALLOYS 67-11 M17-80345

INTERNAL OXIDATION, ALLOYING EFFECTS
INTERNAL OXIDATION OF NICKEL ALLOYS CONTAINING A SMALL AMOUNT OF CHROMIUM 67-09 M18-78255

INTERNAL OXIDATION, COMPOSITION EFFECTS
THE OXIDATION OF CB-ZR AND CB-ZR-RE ALLOYS IN OXYGEN AT 1000 C 67-03 M18-65094

INTERNAL OXIDATION, TEMPERATURE EFFECTS
STUDIES ON THE OXIDATION OF FE-AL ALLOYS IN CARBON DIOXIDE AT HIGH-TEMPERATURES. PT. 1 67-06 M18-70793

INTERNAL STRESS
SEE RESIDUAL STRESS

INTERRUPTED QUENCHING
SEE ALSO MARTEMPERING
INTERRUPTED QUENCHING OF ALUMINUM ALLOYS 67-04 M10-67726

INTERSECTING SHAFT GEARS
SEE BEVEL GEARS

INTERSTITIAL COMPOUNDS
ELECTROMIGRATION OF HYDROGEN ISOTOPES DISSOLVED IN 67-12 M15-82729

INTERSTITIAL COMPOUNDS, CRYSTAL LATTICES
CLOSE-PACKED STRUCTURES 67-07 M13-73669
STRAIN IN METAL CARBIDES 67-12 M17-81825

INTERSTITIAL COMPOUNDS, PHYSICAL PROPERTIES
ELECTRONIC EXCHANGE AND THE MOSSBAUER EFFECT IN IRON-BASED INTERSTITIAL COMPOUNDS 67-03 M16-65718

INTERSTITIAL DEFECTS
SEE ALSO CROWDIONS
EFFECT OF DEFORMATION-INDUCED CRYSTAL IMPERFECTIONS ON MAGNETOCRYSTALLINE ANISOTROPY OF NICKEL SINGLE CRYSTALS 67-02 M13-61831
ELECTRON MICROSCOPE STUDY OF NIOBIUM CONTAMINATED BY INTERSTITIAL ELEMENTS 67-02 M14-58926
ISOTHERMAL ANNEALING STUDIES ON VACANCY AND INTERSTITIAL LOOPS IN SINGLE CRYSTAL GRAPHITE 67-02 M14-60813
REMOVAL OF SINGLE INTERSTITIALS FROM IRRADIATED PLATINUM 67-02 M14-61596
POINT DEFECT ELECTRON SCATTERING IN BERYLLIUM 67-03 M13-65222
VIBRATIONS OF INTERSTITIAL LI PLUS IONS IN SILICON. PT. 1. FORCE CONSTANTS 67-03 M13-65562
VIBRATIONS OF INTERSTITIAL LI PLUS IONS IN SILICON. PT. 2. FREQUENCIES OF LOCALIZED MODES 67-03 M13-65563
LOW TEMPERATURE RECOVERY OF DEFORMED ZIRCONIUM 67-03 M14-65694
THE DEFECT STRUCTURE OF RUTILE CONTAINING SMALL ADDITIONS OF ALUMINIUM OXIDE 67-04 M13-68158
RESISTOMETRIC MEASUREMENTS ON MOLYBDENUM IRRADIATED WITH 2.5 MEV ELECTRONS 67-04 M16-66531
ON THE CREEP BEHAVIOR OF SILVER. PT. 2. OXYGEN EFFECTS 67-04 M17-66062
INFLUENCE OF IMPURITIES ON THE DISCONTINUOUS YIELDING OF HIGH MELTING POINT METALS 67-04 M17-67198
A KINETIC APPROACH TO INTERSTITIAL CLUSTERING IN NEUTRON IRRADIATED METALS 67-05 M13-68297
CRYSTAL IMPERFECTIONS 67-05 M13-68990
THE EFFECT OF IRRADIATION TEMPERATURE ON THE RESISTIVITY RECOVERY OF COPPER 67-05 M14-69372
THE CONVERSION-TWO-INTERSTITIAL MODEL FOR RADIATION DAMAGE IN FCC METALS 67-05 M14-69373
INTERACTION OF RADIATION DEFECTS WITH DISLOCATIONS IN GERMANIUM 67-06 M13-71763
THE OBSERVATION OF INTERSTICE LATTICE STACKING FAULTS IN ALPHA-TI-O ALLOYS 67-06 M13-71964
NATURE, SIZE AND DISTRIBUTION OF LATTICE DEFECTS AND THEIR INFLUENCE ON THE HIGH-FIELD PROPERTIES OF THE TYPE 3 SUPERCONDUCTOR NB-ZR 25 67-06 M16-71728
LATTICE DEFECTS 67-07 M13-73675
A FIELD ION MICROSCOPE INVESTIGATION OF OXYGEN IN TUNGSTEN 67-08 M13-75981
THE POSITION ENERGY AND ACTIVATION ENERGY OF DIFFUSION OF INTERSTITIAL IMPURITIES 67-08 M14-75077
THE INTERACTIONS BETWEEN INTERSTITIALS AND THEIR ORDERING 67-08 M14-75078
ANNEALING STUDIES OF IRRADIATED PLATINUM 67-12 M13-82521

INTERSTITIAL DEFECTS, IMPURITY EFFECTS
INTERSTITIAL DEFECT CLUSTERS IN GOLD AFTER BOMBARDMENT WITH 270EV GOLD IONS 67-09 M14-77519
MOBILITY OF INTERSTITIAL DEFECTS IN GOLD BOMBARDED WITH 270 EV GOLD IONS IN STAGE 111 67-09 M14-77520

INTERSTITIAL DEFECTS, RADIATION EFFECTS
PROOF AND ORIGIN OF INTERSTITIAL ATOM AGGLOMERATES IN CU FOILS EXPOSED TO IONIC IRRADIATION 67-01 M16-57581
INFRARED STUDIES OF DEFECT PRODUCTION IN N-TYPE SI--IRRADIATION-TEMPERATURE DEPENDENCE 67-05 M14-69817
POINT-DEFECT STUDIES IN PLATINUM BY ELECTRON IRRADIATION AT LOW TEMPERATURES. PT. 2. RESISTIVITY RECOVERY FROM 10 TO 300 K 67-06 M14-69915
CLUSTERING OF DEFECTS IN NEUTRON-IRRADIATED BERYLLIUM OXIDE 67-06 M14-70983
INTERSTITIAL LOOPS IN GRAPHITE, THEIR MOTION AND THEIR EFFECT ON ELASTIC MODULUS 67-10 M13-78915
INTERSTITIAL REMOVAL IN STAGE-311 RECOVERY OF NEUTRON-IRRADIATED W 67-10 M14-79280

INTERSTITIAL SOLUTIONS
EFFECT OF INTERSTITIAL ELEMENTS AND IRON ON CORROSION RESISTANCE OF COMMERCIALLY PURE TITANIUM IN HYDROCHLORIC ACID AND SULFURIC ACID 67-01 M18-58237
HYDROGEN SOLUBILITY IN ZIRCONIUM ALLOYS 67-02 M14-59019
ON THE EFFECT OF TIO2 ADDITIONS ON SINTERING OF UO2 67-03 M14-65857
INTERSTITIAL SOLUTIONS OF NOBLE METALS IN METALS AND SEMICONDUCTORS 67-04 M14-67540
RELATIONSHIP BETWEEN THE HYDROGEN DIFFUSION WAVE PROPAGATED IN A METAL SHEET AND THE DEFORMATION PRODUCED BY THIS WAVE 67-04 M17-66045
EFFECTS OF CARBIDE SIZE AND SPACING ON INTERSTITIAL AND CARBIDE STRENGTHENING IN A 0.3 PER CENT C STEEL 67-06 M14-70812
A STUDY OF NITROGEN IN A CHROMIUM-YTTRIUM ALLOY 67-06 M14-71606
EFFECT OF INTERSTITIAL ELEMENTS AND IRON ON CORROSION RESISTANCE OF COMMERCIALLY PURE TITANIUM IN HYDROCHLORIC ACID AND SULFURIC ACID 67-06 M18-71444
DIFFUSION OF NICKEL IN SILICON 67-08 M14-75221
EFFECT OF PRESSURE ON THE DIFFUSION OF FE IN TI AND TI PLUS 10 PER CENT FE 67-08 M14-75225
NEW PHASES IN A CD-V-O2 SYSTEM 67-10 M14-79713
HYDROGEN EMBRITTLEMENT OF NIOBIUM-OXYGEN AND NIOBIUM-NITROGEN SOLID SOLUTIONS AT ROOM TEMPERATURE 67-10 M17-80024
THE SOLUTION OF INTERSTITIAL ELEMENTS IN THE BODY-CENTERED CUBIC EARLY TRANSITION METALS 67-11 M14-81118
THE THERMODYNAMICS OF DILUTE INTERSTITIAL SOLID SOLUTIONS 67-11 M15-81119
A MODEL FOR CONCENTRATED INTERSTITIAL SOLID SOLUTIONS--ITS APPLICATION TO SOLUTIONS OF CARBON IN GAMMA IRON 67-12 M14-82574
EFFECT OF CHEMICAL COMPOSITION AND NEUTRON IRRADIATION ON MECHANICAL PROPERTIES OF FE OF DIFFERENT GRAIN SIZE 67-12 M16-82808

INTERSTITIAL SOLUTIONS, CRYSTAL LATTICES
ON THE INTERACTION BETWEEN DISLOCATION AND SOLUTE ATOM IN LOW-ALLOY HEAT-RESISTING STEELS 67-01 M17-58325
PRECIPITATION AND REPLACEMENT IN SOLUTION OF CARBON IN IRON 67-02 M14-61528
EVIDENCE FOR INTERSTITIAL COBALT IN INDIUM BY MOSSBAUER SPECTROSCOPY 67-09 M14-77163

INTERSTITIAL SOLUTIONS, DIFFUSION
DIFFUSION CALCULATIONS IN THREE-COMPONENT SOLID SOLUTIONS 67-01 M14-58468
THE DIFFUSION ACTIVATION ENERGY OF INTERSTITIAL ELEMENTS IN TRANSITION METALS WITH A BODY-CENTERED LATTICE 67-04 M14-67916

INTERSTITIAL SOLUTIONS, MECHANICAL PROPERTIES
THE INFLUENCE OF CARBON AND NITROGEN ON THE FLOW STRESS OF POLYCRYSTALLINE IRON 67-07 M17-72533

INTERSTITIAL SOLUTIONS, PHASES /STATE OF MATTER/
STUDY OF THE EQUILIBRIUM OF FOUR SOLID PHASES IN

INTERSTITIAL SOLUTIONS
THE TEPNARY SYSTEM U-C-SI 67-04 M14-67454
INTERSTITIAL SOLUTIONS, PHYSICAL PROPERTIES
MOSSBAUER EFFECT IN IRON-CARBON AND IRON-NITROGEN ALLOYS 67-04 M16-66536
INTERSTITIAL SOLUTIONS, RADIATION EFFECTS
CONFIGURATION OF INTERSTITIAL ATOMS IN IRRADIATED GRAPHITE 67-03 M15-65918
INTERSTITIAL SOLUTIONS, THERMODYNAMICS
THERMODYNAMIC PROPERTIES OF SOLID SOLUTION ALLOYS OF IRON AND CARBON WITH MANGANESE, SILICON, CHROMIUM OR NICKEL 67-02 M15-61734
INVAR, HEAT TREATMENT
MECHANISM OF THE EFFECT OF TEMPERING ON THE CRYSTAL LATTICE PARAMETER OF DISPERSION-HARDENED INVARS 67-04 M13-67652
INVAR, MAGNETIC PROPERTIES
MAGNETIC PROPERTIES OF IRON AND INVAR UNDER HIGH PRESSURE 67-03 M15-65915
INVAR, PHYSICAL PROPERTIES
EFFECT OF PLASTIC DEFORMATION ON PHYSICAL PROPERTIES OF TI-ALLOYED FE-NI INVARS 67-04 M15-67925
INVESTMENT CASTING
INDUCTION MELTING FOR PRECISION-INVESTMENT CASTING 67-01 M06-58541
PRECISION CASTING FUSED SILICA RADOMES 67-01 M06-58792
A BREAKTHROUGH IN MAKING TURBINE COMPONENTS--DIRECTIONAL SOLIDIFICATION AND SINGLE CRYSTALS 67-02 M06-59458
ECONOMICAL PRODUCTION IN THE DAIRY FITTINGS INDUSTRY THROUGH THE INTRODUCTION OF PRECISION-CAST HOUSING PARTS 67-02 M06-60034
DIMENSIONAL ACCURACY AND SURFACE FINISH OF CAST ROCK BITS 67-02 M06-61194
AQUACAST PROCESS FOR CASTING NON-FERROUS METALS 67-02 M06-61689
AUTOMATIC INVESTMENT CASTING 67-04 M06-66686
DIMENSIONAL AND WEIGHT ACCURACY OF HIGH-PRESSURE SQUEEZE MOULD CASTINGS 67-04 M06-67941
BURN-ON IN INVESTMENT MOLDS 67-04 M06-68095
ACCUMULATION OF OXIDES IN ALUMINUM DURING MELTING AND POURING 67-04 M06-68099
BERYLLIUM COPPER INVESTMENT CASTINGS 67-04 M06-68133
CRUCIBLE LININGS FOR CORELESS ELECTRIC INDUCTION FURNACES 67-05 M06-69887
THE FILL OF NONPREHEATED MOLDS FOR PRECISION CASTING, USING INVESTMENT PATTERNS 67-06 M06-70115
CASTING PRODUCTION BY REMOTE CONTROL 67-06 M06-71006
INVESTMENT-CASTING OF OXYGEN-FREE HIGH-CONDUCTIVITY COPPER 67-06 M06-71040
MODELING WAXES FOR PRECISION METAL CASTING 67-07 M06-73726
SELECTING ALLOYS FOR INVESTMENT CAST PARTS 67-08 M06-74498
THE ECONOMY OF INVESTMENT CASTING 67-08 M06-75196
SELECTION FACTORS FOR STEEL INVESTMENT CASTINGS 67-08 M06-75491
THE BOOM IN FERROUS INVESTMENT CASTINGS 67-08 M06-75495
EFFECT OF PROCESS TECHNOLOGY ON THE PRECISION CASTING OF HEAT RESISTANT CASTING ALLOYS IN VACUUM 67-09 M06-77006
NEW HORIZON FOR INVESTMENT CASTING 67-09 M06-77185
HIGH-COST ALLOYS CAN PRODUCE LOW-COST CASTINGS 67-09 M06-77493
INVESTMENT CASTING PROCESS AND ITS VARIABLES 67-09 M06-77981
HIGH INTEGRITY PRECISION CAST TOOL STEELS 67-09 M06-77982
FAST PRODUCTION METHOD FOR ONE-OF-A-KIND CASTINGS 67-09 M06-78170
SUPER INVESTMENT CASTINGS FOR ROCKETS 67-09 M06-78172
PATHWAY TO PROFITABLE TOOLING THROUGH PRECISION CASTING 67-10 M06-79523
DARK SPOTS ON STAINLESS STEEL INVESTMENT CASTINGS 67-12 M06-82617
TYPES OF REFRACTORY ALLOYS AND THE METHODS BY WHICH THEY ARE PRODUCED 67-12 M20-82393
INVESTMENT CASTING, AUTOMATION
UTILIZATION OF COMPUTERS IN INVESTMENT CASTING BY APPLICATION OF MATHEMATICAL/ANALYTICAL TECHNIQUES 67-09 M06-77089
INVESTMENT CASTING, QUALITY CONTROL
CORRECTION OF CASTING DEFECTS BY STATISTICAL EXPERIMENTS 67-04 M06-66891
INVESTMENT CASTINGS
BURN-IN IN INVESTMENT CASTINGS 67-02 M06-61234
THREE NEW CASTING ALLOYS COMBINE STRENGTH, ECONOMY 67-04 M01-66737
COMMERCIAL JETS--THE BIG SWITCH TO PRECISION FORMED PARTS 67-09 M20-77180
INVESTMENT CASTINGS, AIRCRAFT COMPONENTS
AIRCRAFT USE OF ALUMINUM INVESTMENT CASTINGS 67-04 M20-66169
INVESTMENT CASTINGS, DEFECTS
DEFECTS ENCOUNTERED ON PRECISION CASTINGS 67-04 M06-66184
INVESTMENT CASTINGS, HEAT TREATMENT
HEAT-TREATMENT OF INVESTMENT CASTINGS 67-05 M10-68931
HEAT TREATMENT OF INVESTMENT-CAST STAINLESS STEELS AND HIGH TEMPERATURE ALLOYS 67-05 M10-69889
HEAT TREATING ALUMINUM CASTINGS 67-08 M10-75747
INVESTMENT CASTINGS, MICROSTRUCTURE
DENDRITIC AND ZONAL HETEROGENEITIES IN THE KHN67MTYU AND KHN60MVTYU ALLOYS 67-08 M13-76011
INVESTMENT CASTINGS, NONDESTRUCTIVE TESTING
NON-DESTRUCTIVE TESTING FOR INVESTMENT CASTINGS 67-09 M19-78279
INVESTMENT MOLDING
SEE INVESTMENT CASTING
IODINE, REACTIONS /CHEMICAL/
CONCERNING THE GROWTH OF EPITAXIAL GERMANIUM FILMS BY THE SANDWICH METHOD 67-09 M14-76768
ETCHING OF GERMANIUM WITH IODIDE VAPOR IN AN ELECTRIC FIELD 67-09 M14-76769
ION ACCELERATORS
FORMATION OF SIO2 FILMS BY OXYGEN-ION BOMBARDMENT 67-02 M14-59073
ION EMISSION
SPUTTERING OF A GOLD HEMISPHERICAL SINGLE CRYSTAL 67-07 M16-73141
THERMAL EMISSION MICROSCOPE STUDIES OF CESIUM SURFACE IONIZATION ON POROUS REFRACTORY METALS 67-10 M16-79166
ION EXCHANGE RESINS
AN EXAMINATION OF MEMBRANES FROM ION-EXCHANGE MATERIALS IN THE ELECTROLYTIC REFINEMENT OF NICKEL 67-08 M03-75088
ION EXCHANGERS
A PROPOSED USE FOR ION EXCHANGE IN GOLD CYANIDATION 67-08 M03-75328
EFFECT OF TEMPERATURE ON RADIOCHEMICAL SEPARATION OF ALKALI METALS ON SULFONIC AND PHENOLSULFONIC ION EXCHANGERS 67-10 M03-79701
ION EXCHANGING
SEE ALSO ANION EXCHANGING
CATION EXCHANGING
DECOPPERING CHLORIDE NICKEL AND COBALT ELECTROLYTES BY MEANS OF ION EXCHANGE 67-04 M03-67524
INVESTIGATION OF LEACHING OF MOLYBDENUM CONTAINING PRODUCTS WITH SODA AND CHLORINE 67-06 M03-71302
AQUEOUS CHEMISTRY OF ZIRCONIUM--SOLVENT EXTRACTION AND ION EXCHANGE STUDIES 67-06 M03-72044
USE OF ION EXCHANGERS DURING TREATMENT OF AURIFEROUS ORES FROM THE KURANAKH DEPOSITS 67-07 M03-73409
A KINETIC ANALYSIS OF ZNS IN RELATION TO VISCOSE SPINNING 67-07 M14-73832
EXTRACTION OF LEAD AND ZINC FROM AQUEOUS COBALT SOLUTIONS BY MEANS OF IONITES 67-08 M03-75205
LARGE SCALE PROCESSING OF HIGHLY IRRADIATED PLUTONIUM BY SOLVENT EXTRACTION AND ION EXCHANGE 67-09 M03-76474
RECOVERY OF RARE-EARTH ELEMENTS FROM DILUTE SOLUTIONS BY ION EXCHANGE PROCEDURES 67-09 M03-77754
THERMODYNAMIC QUANTITIES IN THE EXCHANGE OF ZINC WITH SODIUM IONS IN VARIOUSLY CROSS-LINKED POLYSTYRENE SULFONATE CATION EXCHANGERS AT 25 C 67-09 M14-76600
CHELATES AND METALS 67-11 M01-81398
ABSORPTION OF TE FROM HYDROCHLORIC ACID SOLUTIONS WITH WOFATIT-SBW 67-11 M03-80338
THE PURIFICATION OF PLUTONIUM BY ANION EXCHANGE IN

NITRIC ACID 67-11 M16-80196
METHOD FOR THE ION-EXCHANGE SEPARATION OF URANIUM FROM IRON, THORIUM AND RARE-EARTH METALS 67-12 M03-81786
SEMI-INDUSTRIAL TESTING OF THE SORPTION EXTRACTION OF GOLD FROM THE WASTE CYANIDE WATERS 67-12 M03-83018

IONIC MOBILITY
THE MECHANISM OF IONIC MOBILITY IN MOLTEN METALS 67-02 M15-59932
DIFFUSED GERMANIUM RESISTORS FOR THERMOMETRY IN 20 TO 70 K. RANGE 67-04 M15-67401
ELECTROLYSIS AND ION TRANSPORT MECHANISM IN URANIUM DIOXIDE 67-05 M15-69295
HIGH-MOBILITY PBS AND CDS FILMS DEPOSITED UNDER ULTRAHIGH VACUUM EQUILIBRIUM CONDITIONS 67-06 M14-71140
THE EFFECT OF APPLIED ELECTRIC FIELD ON DIFFUSION OF IMPURITIES IN GALLIUM ARSENIDE 67-06 M16-70986
MECHANISM OF IONIC MOBILITY IN LIQUID METALS 67-07 M15-72587
RELAXATION EFFECTS AROUND VACANCIES IN SODIUM METAL 67-07 M16-73631
ELECTROMIGRATION OF CADMIUM AND INDIUM IN LIQUID BISMUTH 67-12 M14-82957

IONIZATION
THE EFFECTIVE IONIZATION RATE FOR HOT CARRIERS IN GAAS 67-01 M16-57986
IONIZATION ENERGIES AND THEIR PRESSURE DEPENDENCE OF CU AND AG IN INSB 67-03 M16-65650
IMPROVED SURFACE IONIZATION EFFICIENCY BY HIGH WORK FUNCTION REFRACTORY METALS AND ALLOYS 67-03 M16-65870
ELECTRON DIFFRACTION DETERMINATION OF THE IONIZATION OF THE CARBON ATOM IN BETA-MO2C CRYSTAL 67-04 M13-67111
IONIZATION ENERGY AND IMPURITY BAND CONDUCTION OF SHALLOW DONORS IN N-GALLIUM ARSENIDE 67-04 M16-66510
THE PERIODIC TABLE OF ELEMENTS AND PROBLEMS OF METAL CHEMISTRY 67-05 M01-68373
ELECTRIC PROPERTIES OF P-TYPE GERMANIUM STRONGLY DOPED WITH BERYLLIUM 67-06 M16-71924
THERMODYNAMIC QUANTITIES IN THE EXCHANGE OF ZINC WITH SODIUM IONS IN VARIOUSLY CROSS-LINKED POLYSTYRENE SULFONATE CATION EXCHANGERS AT 25 C 67-09 M14-76600
POROSITY EFFECTS IN THE IONIZATION OF CESIUM ON TUNGSTEN 67-09 M14-77444
POSITIVE AND NEGATIVE SELF-SURFACE IONIZATION OF TUNGSTEN AND RHENIUM 67-09 M16-76659
EXCITATION SPECTRA AND PHOTO-IONIZATION OF NEUTRAL MERCURY CENTERS IN GERMANIUM 67-09 M16-77171
SURFACE IONIZATION. PT. 1. DESORPTION OF U PLUS IONS FROM W AND RE SURFACES 67-10 M14-78876
ELECTRON BINDING ENERGIES IN TRANSITION METALS 67-10 M16-79703
REDUCTION OF OXYGEN ON IRON AND IONIZATION OF IRON IN THE PRESENCE OF DISSOLVED OXYGEN 67-11 M14-81276
SURFACE IONIZATION OF SOME RARE EARTH ELEMENTS ON HOT POLYCRYSTALLINE TUNGSTEN SURFACE 67-12 M16-81769

IONIZATION CHAMBERS
SEE ALSO BUBBLE CHAMBERS
HIGH-TEMPERATURE IONIZATION CHAMBER FOR DETECTING LOW-LEVEL PLUTONIUM CONTAMINATION 67-01 M15-58586

IONIZATION COUNTERS
SEE GEIGER MUELLER COUNTERS

IONIZATION GAGES
A NEW IONOGRAPHIC INSTRUMENT--THE SCIP ION 67-12 M13-83516

IONIZING RADIATION
SEE ALSO BETA RAYS
GAMMA RAYS
X RAYS
STUDY OF IONIZATION-INDUCED RADIATION DAMAGE IN MGO 67-06 M15-69923
ION BOMBARDMENT OF W BY INERT-GAS IONS AND SUBSEQUENT ADSORPTION OF O2 AS OBSERVED IN THE FIELD EMISSION MICROSCOPE 67-08 M14-75047
VACUUM SYSTEM OF ION-MICROPROBE MASS SPECTROMETER 67-08 M19-74562

IONIZING RADIATION SCATTERING
SEE ALSO BACKSCATTERING
COHERENT SCATTERING
ELASTIC SCATTERING
INCOHERENT SCATTERING
INELASTIC SCATTERING
NUCLEAR SCATTERING
IN-PILE CALORIMETRIC DOSIMETRY. PT. 1 67-05 M16-68648
SCATTERING OF ELECTRONS IN THIN COPPER AND GOLD FILMS 67-06 M16-70526
SCREENING-ENHANCED SHUBNIKOV-DE HAAS OSCILLATIONS IN SB-DOPED GRAY TIN 67-06 M16-71224
LOW-TEMPERATURE THERMAL CONDUCTIVITY OF FAST-NEUTRON-IRRADIATED SILICON AND GERMANIUM 67-07 M15-72626
INVESTIGATION OF THE QUASI-LOCAL LEVEL IN THE VIBRATIONAL SPECTRUM OF THE TI LATTICE WITH HEAVY IMPURITY ATOMS 67-08 M16-75235
TEMPERATURE DEPENDENT STONER ENHANCEMENT FOR NICKEL ABOVE THE CURIE TEMPERATURE 67-08 M16-75830
RADIOISOTOPE X-RAY FLUORESCENCE AND RADIATION SCATTER TECHNIQUES IN MINING AND METALLURGY 67-08 M19-74669
DISTRIBUTION OF ATOMIC MAGNETIC MOMENTS IN NI-MO, NI-W DILUTED ALLOYS 67-10 M16-79234

IONIZING RADIATION SCATTERING, TEMPERATURE EFFECTS
LONG-RANGE ORDER AND CRITICAL SCATTERING OF NEUTRONS BELOW THE TRANSITION TEMPERATURE IN BETA-BRASS 67-05 M14-69808

IONS
SEE ANIONS

IRIDIUM
HIGH-TEMPERATURE MECHANICAL PROPERTIES AND CORROSION RESISTANCE OF IRIDIUM ALLOYS 67-02 M17-61967

IRIDIUM, BINARY SYSTEMS
INTERMEDIATE PHASES IN TITANIUM ALLOYS WITH IRIDIUM AND RHODIUM 67-05 M13-69277
NEW PHASES IN THE VANADIUM-IRIDIUM SYSTEM AND A TENTATIVE CONSTITUTION DIAGRAM 67-11 M14-80311

IRIDIUM, COATINGS
SCIENCE FOR ELECTROPLATERS. PT. 114. RUTHENIUM-RHENIUM-IRIDIUM-INDIUM 67-05 M12-68493
THE ELECTRODEPOSITION OF IRIDIUM 67-05 M12-68829
ELECTRODEPOSITION OF IRIDIUM FROM FUSED SODIUM CYANIDE AND AQUEOUS ELECTROLYTES. A PRELIMINARY STUDY 67-12 M12-81941

IRIDIUM, CRYSTAL LATTICES
FIELD ION MICROSCOPIC OBSERVATIONS OF DISLOCATION STRUCTURES AT GRAIN BOUNDARIES 67-02 M13-61828
DEFORMATION STACKING FAULTS IN RHODIUM AND IRIDIUM 67-02 M13-61945
A FIELD-ION MICROSCOPE STUDY OF SEGREGATION TO GRAIN BOUNDARIES IN IRIDIUM 67-07 M13-73904
MECHANICAL TWINNING OF PLATINUM AND IRIDIUM IN A FIELD-ION MICROSCOPE 67-10 M13-78667

IRIDIUM, ELECTRICAL PROPERTIES
IMPROVED SURFACE IONIZATION EFFICIENCY BY HIGH WORK FUNCTION REFRACTORY METALS AND ALLOYS 67-03 M16-65870

IRIDIUM, EXTRACTION
EXTRACTION OF IRIDIUM --4-- FROM HYDROCHLORIC SOLUTION WITH THE ANP COLLECTOR 67-08 M03-76236

IRIDIUM, INTERMETALLICS
LAVES PHASES OF THE SCANDIUM GROUP ELEMENTS WITH RUTHENIUM, RHODIUM, OSMIUM, IRIDIUM, AND PLATINUM 67-02 M13-59443
THE CRYSTAL STRUCTURES OF RH10GA17 AND IR3GA5 67-09 M13-77301
A NEW SYNTHESIS OF 6-METHYL-3-PYRIDINOL 67-11 M14-80705
SOME NEW PHASES OF THE MN5SI3 TYPE 67-12 M14-82052

IRIDIUM, MAGNETIC PROPERTIES
SPIN DETERMINATIONS OF NEUTRON RESONANCES IN SB, TA, RE, AND IR, USING IRON-ALLOY TARGETS 67-07 M15-72931
LOW-TEMPERATURE SUSCEPTIBILITIES OF RH AND IR WITH FE IMPURITIES 67-07 M15-73551

IRIDIUM, MECHANICAL PROPERTIES
PROPERTIES OF IRIDIUM AT HIGH TEMPERATURES--RESISTANCE TO CREEP AND OXIDATION 67-05 M17-69733

IRIDIUM, MICROSCOPY
THE ION EMISSION MICROSCOPE 67-01 M13-57167

IRIDIUM, MICROSTRUCTURE

IRIDIUM

FIELD ION MICROSCOPY OF THE PLATINUM METALS 67-07 M13-72878

IRIDIUM, OXIDATION
HIGH TEMPERATURE BEHAVIOR OF IRIDIUM-RHODIUM ALLOYS 67-07 M18-72544

IRIDIUM, REACTIONS /CHEMICAL/
DISSOLUTION OF METALS BY AC ELECTROLYSIS 67-01 M14-58583

IRIDIUM, TERNARY SYSTEMS
ON THE TERNARY PHASES UCOAL, UIRAL, AND UNIAL OF THE C22 --FE2P-- TYPE 67-06 M13-71623
INTERMEDIATE PHASES IN ALLOYS OF TITANIUM WITH IRIDIUM, RHODIUM, AND OSMIUM 67-07 M13-73277

IRIDIUM BASE ALLOYS
HIGH-TEMPERATURE MECHANICAL PROPERTIES AND CORROSION RESISTANCE OF IRIDIUM ALLOYS 67-02 M17-61967

IRIDIUM BASE ALLOYS, CRYSTAL LATTICES
LATTICE PARAMETERS OF SOME H. C. P. BINARY ALLOYS OF RHENIUM AND OSMIUM-- RE-W, RE-IR, RE-PT, OS-IR, OS-PT 67-05 M13-68222

IRIDIUM BASE ALLOYS, ELECTRICAL PROPERTIES
PHENOMENOLOGICAL THEORY OF THE RESISTIVITY AND SUSCEPTIBILITY OF DILUTE RH-FE AND IR-FE ALLOYS 67-11 M15-80184

IRIDIUM BASE ALLOYS, OXIDATION
HIGH TEMPERATURE BEHAVIOR OF IRIDIUM-RHODIUM ALLOYS 67-07 M18-72544

IRON
RESEARCH INTO THE DENSITY OF DEFORMED METALS AND ALLOYS 67-08 M17-75441

IRON, ABSORPTION SPECTRA
X-RAY ABSORPTION K-SPECTRA OF IRON IN CARBIDE OF CARBON STEEL, TEMPERED AT VARIOUS TEMPERATURES AND HOLDING TIMES 67-02 M14-59939
K-ABSORPTION SPECTRA OF IRON IN THE CARBIDE OF A CARBON STEEL TEMPERED AT DIFFERENT TEMPERATURES AND HOLDING TIMES 67-07 M14-72594

IRON, ACOUSTIC PROPERTIES
TWO CASES OF SHOCK-WAVE PROPAGATION IN A METAL 67-04 M15-68011

IRON, ACTIVITY /CHEMICAL/
INVESTIGATION OF THE ACTIVITY OF PHOSPHORUS IN LIQUID IRON 67-08 M14-75658
THE EFFECT OF SULFUR ON THE ACTIVITY OF OXYGEN IN IRON, COBALT AND NICKEL MELTS AT 1600 C 67-08 M14-75659

IRON, ALLOYING ADDITIVE
THE INFLUENCE OF THE HEAT TREATMENT OF INGOTS AND SLABS ON THE EARING OF ALUMINUM SHEET OF DIFFERENT PURITIES 67-01 M08-57287
STUDY ON ALUMINUM ALLOYS USED FOR DIECASTING 67-01 M17-57617
THE INFLUENCE OF ALUMINIUM AND IRON ADDITIONS ON COPPER-MANGANESE-ZINC ALLOYS 67-05 M01-68496
EFFECT OF IRON CONTENT IN SAND-CAST COMPLEX BRASS BS1400..HTB2 AND HTB3 67-07 M17-74256
AN AUTORADIOGRAPHIC STUDY OF THE DISTRIBUTION OF IRON IN CAST ALUMINIUM-IRON SOLID SOLUTION 67-07 M19-72817
EFFECTS OF IRON AND MOLYBDENUM ON THE HIGH-TEMPERATURE PROPERTIES OF CHROMIUM BASE ALLOYS 67-09 M17-78238
THE INFLUENCE OF IRON ON THE PROPERTIES OF AL-ZN-MG FOUNDRY ALLOYS 67-09 M18-78043
INFLUENCE OF IRON AND MANGANESE ON THE PROPERTIES OF PRESSURE DIE-CAST A-S10 U4 ALLOY 67-11 M06-80528
PHENOMENOLOGICAL THEORY OF THE RESISTIVITY AND SUSCEPTIBILITY OF DILUTE RH-FE AND IR-FE ALLOYS 67-11 M15-80184
DEEP ACCEPTORS IN IRON-DOPED GALLIUM ARSENIDE 67-11 M15-80634
EXPERIMENTAL INVESTIGATION ON EXCHANGE INTERACTION IN PLATINUM-IRON ALLOYS 67-11 M15-80661
HYPERFINE FIELDS IN FE-PD-H ALLOYS 67-11 M15-81669
ELECTRICAL RESISTIVITY OF CHROMIUM ALLOYS 67-12 M15-81766

IRON, ATOMIC PROPERTIES
COMMENTS ON PAPERS RESULTING FROM HUME-ROTHERYS NOTE-1965 67-06 M16-71970
PULSED NMR IN FE 67-07 M16-73527
OPTICAL AND MAGNETO-OPTICAL PROPERTIES OF IRON AND COBALT 67-08 M15-74631
THE ABSOLUTE ATOMIC SCATTERING FACTOR OF IRON 67-08 M16-76134
ATOMIC SCATTERING OF X-RAYS AND THE ELECTRON DENSITY OF IRON AND SILICON 67-11 M16-80158
COMPARISON OF THE ATOMIC DISTRIBUTION FUNCTIONS OF LIQUID AND SOLID METALS 67-12 M16-83005

IRON, BAND THEORY
NUCLEAR MAGNETIC RELAXATION IN FERROMAGNETIC TRANSITION METALS 67-02 M16-59478
STUDY OF THE STRUCTURE OF THE UNOCCUPIED PORTION OF THE 3D-BAND IN IRON AND COBALT BY X-RAY K-SPECTRA OF ABSORPTION 67-02 M16-62094
ON THE D-BAND STRUCTURE OF BCC FE 67-07 M16-73995

IRON, BENEFICIATION
SEMI-INDUSTRIAL TESTING OF A METHOD OF METALLURGICALLY TREATING RED MUDS IN ROTARY FURNACES 67-05 M03-69535

IRON, BIMETALS
PACK ROLLING TITANIUM-IRON 67-01 M12-58068

IRON, BINARY SYSTEMS
OXIDATION-REDUCTION DIAGRAM 67-01 M14-58368
THERMODYNAMIC CALCULATION OF THE EQUILIBRIUM DIAGRAM OF THE IRON-CARBON SYSTEM 67-02 M13-62253
APPLYING THE THEORY OF REGULAR SOLUTIONS TO THE CALCULATION OF A CONSTITUTION DIAGRAM OF THE FE-C SYSTEM. PT. 2 67-02 M13-62255
PRECIPITATION HARDENING IN BCC BINARY ALLOYS. PROGRESS REPORT TO MARCH 1966 67-04 M10-68160
MICROANALYSIS OF OXIDIZED MOLTEN IRON ALLOYS 67-04 M19-67269
USE OF PHASE DIAGRAMS OF BINARY SYSTEMS TO CALCULATE THE HEAT OF FUSION OF THE SOLVENT 67-05 M15-69110
EFFECT OF ALLOYING ON THE ALUMINUM K AND IRON L X-RAY EMISSION SPECTRA IN THE ALUMINUM-IRON BINARY SYSTEM 67-05 M16-69219
A STUDY OF THE IRON-RICH PORTION OF THE FE-U PHASE DIAGRAM 67-06 M13-69906
LAVES PHASES IN THE SCANDIUM-IRON SYSTEM 67-06 M13-70907
INVESTIGATIONS OF SURFACES OF THE BINARY SYSTEM TA-FE BY MEANS OF AN EMISSION ELECTRON MICROSCOPE 67-06 M13-70995
INVESTIGATION OF THE TRANSFORMATION BEHAVIOR OF IRON-MANGANESE ALLOYS BY DAMPING MEASUREMENTS IN THE REGION OF 1 CYCLE/SEC 67-06 M14-70259
EQUILIBRIUM DIAGRAM OF THE IRON-MOLYBDENUM SYSTEM 67-06 M14-70810
MOSSBAUER IRON SPECTRA IN THE EPSILON-PHASE HOMOGENEITY REGION OF THE IRON-SILICON SYSTEM 67-06 M16-72373
THICKNESS DEPENDENCE OF THE COMPOSITION IN ELECTROPLATED NI-FE CYLINDRICAL FILMS 67-07 M12-73594
BERYLLIUM-RICH END OF FIVE BINARY SYSTEMS 67-07 M13-73742
THE GAMMA LOOP IN THE FE-AL SYSTEM 67-07 M13-74175
MUTUAL DIFFUSION IN SOME BINARY SYSTEMS WHICH FORM CONTINUOUS SERIES OF SOLID SOLUTIONS 67-07 M14-73476
SOLID-STATE EQUILIBRIA IN THE IRON-NICKEL SYSTEM 67-07 M14-73567
MAGNETIC ELECTRICAL AND THERMAL PROPERTIES OF THE BCC-ALPHA PHASE IN A FE-GA SYSTEM 67-07 M15-72726
MAGNETOELASTIC COEFFICIENT AND TEMPERATURE RELATIONSHIP IN THIN NI-FE FILMS 67-07 M15-73597
HYPERFINE INTERACTIONS AT FE57 NUCLEI IN INTERMETALLIC COMPOUNDS OF THE FE-MN SYSTEM WITH THE BETA-MANGANESE STRUCTURE 67-07 M16-73529
MECHANISM OF LIQUID PHASE SINTERING IN THE IRON-COPPER SYSTEM 67-08 M09-75389
THE ALPHA-GAMMA EQUILIBRIUM IN FE-MN, FE-MO, FE-NI, FE-SB, FE-SN AND FE-W SYSTEMS 67-08 M13-75813
THE TIN-IRON SYSTEM. PT. 1. THE PHASE DIAGRAM LIQUIDUS BOUNDARIES 67-08 M13-76062
PHASE TRANSFORMATION OF FE-CR BINARY SYSTEM AT ABOUT 500 C 67-08 M14-74404
QUENCHED STRUCTURE AND TEMPERING PROCESS OF IRON-NITROGEN BINARY ALLOYS 67-08 M14-74416
ELECTRONIC PROCESS IN GAMMA IRON TELLURIDE 67-08 M15-75919
CRYSTAL STRUCTURE REFINEMENTS OF THE B 20 AND MONOCLINIC --COGE-TYPE-- POLYMORPHS OF FEGE 67-09 M13-76384
LATTICE PARAMETERS OF IRON-RICH IRON-GALLIUM ALLOYS 67-09 M13-77733

THE TEMPERATURE OF THE EUTECTIC TRANSFORMATION IN THE IRON-COPPER SYSTEM 67-09 M14-77352
THE IRON-TANTALUM SYSTEM 67-10 M13-78336
THE EQUILIBRIUM DIAGRAM OF THE FE-GA BINARY SYSTEM 67-10 M13-80028
STRUCTURAL STUDY OF NIOBIUM-IRON ALLOYS 67-10 M14-78481
PARAMAGNETIC STUDY OF FE-SI AND FE-GE ALLOYS 67-10 M15-80022
SIGNIFICANCE OF THE DISTRIBUTION COEFFICIENT IN THE REFINING OF IRON 67-11 M13-80212
DETERMINATION OF DIFFUSION COEFFICIENTS BY MEASURING THE KIRKENDALL EFFECT 67-11 M14-80623
THERMODYNAMICS OF FERRITIC SOLUTIONS OF THE IRON-ZINC SYSTEM AT 700 TO 900 C 67-11 M15-81332
GROWTH OF THE SOLID-LIQUID REGION DURING ONE-DIMENSIONAL SOLIDIFICATION OF BINARY ALLOYS. PT. 1 67-12 M14-82745
THERMODYNAMICS OF IRON-PLATINUM ALLOYS 67-12 M15-82751
HOT HARDNESS BEHAVIOR OF IRON-CHROMIUM ALLOYS 67-12 M17-83061

IRON, BONDING
THE PROBLEM OF JOINING AL TO PB AND PB TO FE 67-01 M11-58624

IRON, BRAZING
MECHANISM OF SELF-FLUXING SOLDERS 67-03 M11-65049
LOW-VAPOR PRESSURE BRAZING ALLOYS FOR GRADUAL BRAZING IN TEMPERATURE RANGE FROM 450 TO 600 C 67-06 M11-71653
ON ORIENTED CRYSTALLISATION IN BRAZED SEAMS 67-12 M14-82417

IRON, CASTING
FERROUS DIE CASTING ON THE WAY 67-02 M06-61860
A CONTACTLESS SYSTEM FOR MEASURING MOLTEN IRON TEMPERATURE AND OPTIMUM REGULATION OF CUPOLA BLAST 67-04 M06-66417
THE MAGNESIUM INJECTION PROCESS FOR DUCTILE IRON 67-07 M06-73079
MECHANIZED MALLEABLE IRON FOUNDRY 67-07 M06-73090
EFFECT OF CONSTRUCTIONAL AND TECHNOLOGICAL FACTORS ON THE STRENGTH AND RELIABILITY OF CASTINGS OF HIGH-QUALITY IRON 67-08 M06-74592

IRON, CHEMICAL ANALYSIS
MICROANALYSIS OF OXYGEN BY A RADIOACTIVE REAGENT 67-03 M19-65252
DETERMINATION OF ARSENIC IN SB-FE MATRICES BY ACTIVATION ANALYSIS 67-05 M19-68812
DIRECT ELECTROCHEMICAL DETERMINATION OF THE OXYGEN CONCENTRATION IN LIQUID IRON. PT. 1. INVESTIGATIONS INTO LIQUID PURE IRON 67-07 M19-72704
THE PHOTOMETRIC DETERMINATION OF SILICON IN IRON AND ITS STRUCTURAL COMPONENTS 67-07 M19-72708
MEASURING THE TEMPERATURE OF MOLTEN IRON WITH AN OPTICAL PYROMETER 67-07 M19-74039
STATISTICAL FORECASTING OF LADLE IRON CHEMISTRY 67-08 M04-74887
MICROSCOPIC AMOUNTS OF COBALT AND MANGANESE IN ELECTROLYTICALLY PRODUCED IRON DETERMINED BY NEUTRON-ACTIVATION ANALYSIS 67-09 M19-76707
SIMULTANEOUS DETERMINATION OF PB AND ZN IN IRON, STEEL AND IRON ORES BY THE D-C POLAROGRAPHIC METHOD 67-09 M19-77247
THE DIRECT ELECTROCHEMICAL DETERMINATION OF THE OXYGEN CONTENT OF IRON BATHS. PT. 3. EFFECT OF COBALT, NICKEL, CHROMIUM AND VANADIUM ON THE ACTIVITY OF OXYGEN IN IRON BATHS 67-09 M19-77347
THE WOSTHOFF AUTOMATIC CARBON DETERMINATION APPARATUS 67-09 M19-77705
VACUUM FUSION-MASS SPECTROMETRIC ANALYSIS OF GASES IN IRON AND STEEL. PT. 1. AN APPARATUS FOR THE ANALYSIS OF MICROAMOUNTS OF GASES IN IRON AND STEEL BY VACUUM FUSION-MASS SPECTROMETRY 67-11 M04-81067

IRON, CLADDING
TRANSITION LAYER IN IRON-TITANIUM BIMETAL 67-01 M12-58033

IRON, COATING
COATINGS OF HIGH-TEMPERATURE MATERIALS 67-01 M12-58001
COATINGS OF HIGH-TEMPERATURE MATERIALS. PT. 1 67-01 M12-58002
THERMODYNAMICS OF DIFFUSION CHROMIZING OF IRON 67-02 M12-62244
THE BEHAVIOR OF COATINGS AT EXTREMELY LOW TEMPERATURES 67-02 M17-59077
PRODUCING A LAYER OF NICKEL AND COBALT BORIDES ON THE SURFACE OF IRON 67-03 M12-65973
CORROSION PREVENTION BY ZINC-RICH PAINT SYSTEMS 67-04 M12-66659
OBTAINING A SURFACE LAYER SIMILAR TO SAP 67-04 M12-66878
FILM THICKNESS DETERMINATION BY ELECTRON PROBE MICROANALYSIS 67-04 M19-67430
THE MECHANISM OF THE FORMATION OF GALVANICALLY SUBSTITUTED CU FILMS 67-06 M12-71291
THE COATING ON IRON AND STEEL WITH TITANIUM TETRACHLORIDE 67-06 M12-71294
DIFFUSION COATING OF METALS INTO IRON DURING SINTERING 67-06 M12-71295
PROTECTION OF FERROUS CONSTRUCTION AGAINST CORROSION 67-06 M18-71730
CORRELATION OF PHYSICO-MECHANICAL PROPERTIES OF DIFFUSIVE COATINGS WITH THEIR ELECTRONIC STRUCTURE 67-07 M12-72512
SOME PROMISING PROCESSES TO PROTECT SINTERED IRON AND STEEL AGAINST CORROSION 67-07 M18-73230
SATURATION WITH BERYLLIUM BY DIFFUSION 67-08 M12-76020
REGULARITIES IN COMPLEX DIFFUSION COATING OF ALLOYS 67-09 M12-77409
ALLOY FORMATION IN HOT DIP GALVANIZING.. SOME CURRENT EXPERIMENTS 67-09 M12-77653
THE ANODIC DEPOSITION OF IRON OXIDE FILMS ON IRON 67-09 M12-77887
CORRELATION OF THE PHYSICOMECHANICAL PROPERTIES AND ELECTRONIC STRUCTURE OF DIFFUSION COATINGS 67-11 M17-80898
A KINETIC STUDY OF COPPER PRECIPITATION ON IRON. 67-12 M12-82584

IRON, COATINGS
ELECTRODEPOSITION OF IRON FROM SULFAMATE BATHS. PT. 2. ADDITION OF AMMONIUM BIFLUORIDE 67-01 M12-58395
ELECTRODEPOSITION OF IRON FROM SULFAMATE BATHS CONTAINING UREA AND BORIC ACID AS ADDITIVES 67-02 M12-60281
ELECTRODEPOSITION FROM THE PYROPHOSPHATE BATH--TERNARY ALLOYS OF NICKEL-COBALT-IRON 67-03 M12-65043
DEPOSITION OF THIN FILMS UNDER THE INFLUENCE OF FAST ION IRRADIATION 67-04 M12-67057
INFLUENCE OF ORGANIC ADDITIONS TO ELECTROLYTE ON INTERNAL STRESSES OF ELECTROLYTICALLY DEPOSITED IRON 67-05 M12-69010
DETERMINATION OF RESIDUAL STRESSES IN ELECTROLYTIC COATINGS FROM THE DEFLECTION OF A FLAT CATHODE 67-05 M17-69615
SUBSTRATE-TEMPERATURE MEASUREMENT AND CONTROL 67-08 M19-74563
EVIDENCE FOR PSEUDOMORPHIC GROWTH OF IRON ON COPPER 67-09 M14-77517
THE EFFECT OF ALUMINUM ADDITIONS TO CR-FE COATINGS ON THE PROPERTIES OF THE DIFFUSION COATINGS 67-12 M12-82854

IRON, COMPACTING
MANUFACTURING OF PARTS BY VIBRATION COMPACTING 67-06 M09-72320

IRON, COMPOSITE MATERIALS
CERTAIN CONDITIONS FOR THE PREPARATION AND ETCHING OF THIN SECTIONS OF METAL-GRAPHITE COMPOSITIONS 67-02 M09-61794
THE CHARACTER OF REACTION OF TITANIUM NITRIDE WITH THE IRON GROUP METALS, MOLYBDENUM, AND TUNGSTEN 67-02 M09-62213
INVESTIGATION OF DUCTILE FRACTURE BY MEANS OF AN IRON-ALUMINA COMPOSITE PRODUCED BY SINTERING 67-08 M17-76222
INVESTIGATION OF THE INFLUENCE OF PRECIPITATES AND INCLUSIONS ON THE INITIATION AND PROPAGATION OF CLEAVAGE 67-08 M17-76223

IRON, CONCENTRATION /COMPOSITION/
DETERMINATION OF MICRO AMOUNT OF IRON IN ALUMINIUM METALS AND ALUMINIUM ALLOYS BY ATOMIC ABSORPTION SPECTROMETRY 67-08 M19-74421

IRON, CORROSION
PROTECTION OF IRON POWDER BY AZELATES OF HEAVY METALS 67-02 M09-62175
THE FIRST PASSIVITY FILM OF FE, FE-CR, FE-NI ALLOYS RESULTING FROM SO4--ION 67-02 M18-59977
TEMPERATURE DEPENDENCY OF THE DISSOLUTION KINETICS AND PASSIVATION OF METALS AND ALLOYS. PT. 2.

TEMPERATURE DEPENDENCY OF THE DISSOLUTION MECHANISM 67-02 M18-60113
ATMOSPHERIC CORROSION OF IRON POWDERS IN THE PRESENCE OF SULFUR DIOXIDE 67-02 M18-61632
INFLUENCE OF CONCENTRATED NEUTRAL SALT SOLUTIONS ON THE CORROSION OF METALS 67-02 M18-61763
SCALING RATE OF PURE IRON AND MILD STEEL IN OXYGEN, WATER VAPOR AND CARBON DIOXIDE AT TEMPERATURES RANGING FROM 850 TO 1000 C 67-02 M18-62011
EFFECT ON IRON OF COMBUSTION GASES OF CONVENTIONAL GASEOUS FUELS 67-02 M18-62018
ANODIC CORROSION PROCESSES ON STEEL IN INERT AND OXIDIZING ATMOSPHERES 67-02 M18-62020
THE RELATIONSHIP BETWEEN THE DIRECTIONS OF THE GROWTH OF SURFACE RUST ON IRON AND THE ORIENTATION OF THE METAL 67-03 M18-65321
ELLIPSOMETRIC-POTENTIOSTATIC STUDIES OF IRON PASSIVITY. PT. 1. ANODIC FILM GROWTH IN SLIGHTLY BASIC SOLUTIONS 67-03 M18-65423
GALVANIC PITTING IN METALLIC COATINGS 67-04 M18-66715
CORROSION AND ELECTROCHEMICAL BEHAVIOR OF FE-CR ALLOYS IN BOILING CONCENTRATED HNO3 67-04 M18-67279
THE ANODIC PASSIVATION OF IRON IN SOLUTIONS OF INHIBITIVE ANIONS 67-05 M18-68313
CORROSION PROTECTION THROUGH BLUEING AND BLACKING 67-05 M18-69104
COVERAGE OF IRON SURFACE BY ORGANIC COMPOUNDS AND ANIONS IN ACID SOLUTIONS 67-05 M18-69839
USE OF TITANIUM CHIPS FOR OXIDATION PROTECTION OF IRON DURING HEATING 67-06 M18-70078
CAVITATION DAMAGE AND CRYSTAL STRUCTURE --A STUDY OF CAVITATION DAMAGE FROM THE VIEWPOINT OF MATERIAL SCIENCE. PT. 3.-- 67-06 M18-70780
METALLOGRAPHIC STUDIES ON THE COMMENCEMENT OF DESTRUCTION OF METALLIC MATERIALS BY CAVITATION IN WATER OF 50 TO 55 C 67-07 M18-72481
PROTECTIVE EFFECT OF SOME AZOLES ON ACID CORROSION OF IRON 67-07 M18-73649
INFLUENCE OF SOME INHIBITORS ON CORROSION OF IRON IN ACID MIXTURES 67-07 M18-73655
PROTECTION OF IRON POWDER BY HEAVY-METAL AZELATES 67-08 M09-75951
ELECTROLYTIC A-C CORROSION OF IRON 67-08 M18-74624
HOW METALS RESIST SEA WATER 67-08 M18-74741
THE ATMOSPHERIC CORROSION OF METALS AND MEASURES FOR THEIR PROTECTION UNDER CERTAIN CONDITIONS BY GALVANIC ZN AND CD COATINGS ON STEEL 67-08 M18-75513
STRESS CORROSION OF ARMCO IRON IN ACID MEDIUM 67-09 M18-76430
CORROSION FATIGUE OF ARMCO IRON IN ACID MEDIUM 67-09 M18-76431
EFFECTS OF SULFATE IONS ON THE KINETICS OF THE ANODIC DISSOLUTION OF ACTIVE IRON IN ACID SOLUTIONS 67-09 M18-76647
HIGH-TEMPERATURES CORROSION AND SPECIMEN PREPARATION 67-09 M18-76650
INFLUENCE OF SURFACE CONDITION OF IRON ON ITS SUSCEPTIBILITY TO ACID CORROSION 67-09 M18-78020
ELLIPSOMETRIC-POTENTIOSTATIC STUDY OF IRON PASSIVITY 67-09 M18-78276
DISSOLUTION OF IRON IN A MIXTURE OF HYDROCHLORIC AND NITRIC ACIDS 67-10 M18-78536
THE CORRODING IRON SURFACE. PT. 1. DISSOLUTION OF IRON IN THE HALOGEN ACIDS 67-10 M18-78663
THE CORRODING IRON SURFACE. PT. 2. HYDROGEN COVERAGE DURING CORROSION 67-10 M18-78664
ATMOSPHERIC RUSTING SIMULATION AT THE LABORATORY 67-10 M18-78684
THE CORROSION OF IRON IN NITROGEN OXIDE-CONTAINING H2SO4 67-10 M18-78745
USE OF TITANIUM CHIPS FOR PROTECTION OF IRON AGAINST OXIDATION DURING HEATING 67-10 M18-78824
A CONTRIBUTION TO THE MECHANISM OF CORROSION INHIBITORS. EFFECTS OF ANIONS 67-10 M18-79561
SPECIFIC INFLUENCE OF SOME ADDITIVES ON THE CORROSION OF IRON IN ACID SOLUTIONS 67-10 M18-80007
INHIBITION PROCESS OF ANODIC DISOLUTION OF IRON BY IODIDE IONS IN ACID SOLUTIONS 67-11 M18-80487
MECHANISM OF CORROSION CRACKING OF STRAINED METAL, INTERACTING WITH MOLTEN LITHIUM 67-11 M18-80580
THE EFFECT OF SUBSTITUTIONAL ELEMENTS ON THE STRESS-CORROSION CRACKING BEHAVIOUR OF PURE IRON-BASE ALLOYS 67-11 M18-80711
EFFECT OF KATAPIN K ON THE CORROSION BEHAVIOR OF CERTAIN METALS AND ALLOYS IN SULFURIC ACID 67-11 M18-81282
SELECTION OF INHIBITORS FOR LONG-TERM CONSERVATION OF WATER SYSTEMS 67-11 M18-81283
THE NATURE OF BRITTLE FRACTURE OF IRON AND STEEL IN ACID MEDIA 67-11 M18-81292
PROTECTION OF METALS WITH ELECTRIC CURRENTS 67-12 M18-82351
POTENTIODYNAMIC STUDY OF IRON AND PLATINUM IN MOLTEN ALKALI METAL NITRATES 67-12 M18-83150
INFLUENCE OF CRYSTAL ORIENTATION ON RUST FORMATION ON IRON SURFACES 67-12 M18-83513

IRON, CORROSION TESTS
ELECTROCHEMICAL STUDY OF THE CORROSION OF METALS 67-01 M18-58435

IRON, CRACK PROPAGATION
ELECTRON MICROSCOPY AND METALLOGRAPHIC INVESTIGATIONS OF THE NATURE OF STRUCTURAL DISTURBANCES DURING STRAIN CYCLING 67-01 M17-57639

IRON, CRYSTAL DEFECTS
UNSTABLE DISLOCATIONS IN ANISOTROPIC CRYSTALS 67-05 M14-69777
A CONTRIBUTION TO THE STUDY OF DISLOCATIONS IN POLYCRYSTALLINE IRON BY ETCH-PIT TECHNIQUE 67-06 M13-70402
COMPUTER STUDIES OF NEUTRON IRRADIATION AND ANNEALING IN FINITE BCC IRON SPECIMENS 67-07 M16-73377

IRON, CRYSTAL GROWTH
EPITAXY OF BODY-CENTERED CUBIC METALS EVAPORATED ONTO CLEAVAGE FACES OF ROCKSALT 67-02 M13-60522
PREPARATION OF SINGLE CRYSTALS OF IRON AND IRON ALLOYS 67-02 M14-60622
THIN FILMS OF AMORPHOUS IRON 67-02 M14-60822
THE GROWING OF SINGLE-CRYSTAL LAYERS OF IRON, NICKEL, COBALT AND THEIR ALLOYS 67-02 M14-61513
THE GROWTH OF LARGE SINGLE CRYSTAL SHEETS WITH THE --100-- --011-- ORIENTATION FROM ELECTROLYTIC IRON 67-04 M14-66269
PREFERRED ORIENTATION AND DOMAIN STRUCTURE OF IRON FILMS DEPOSITED ON --100-- COPPER SUBSTRATES 67-06 M14-70992
THE GROWTH OF LARGE SINGLE CRYSTAL SHEETS WITH THE --100-- --011-- ORIENTATION FROM ELECTROLYTIC IRON 67-06 M14-71733
ORIENTED NUCLEATION IN THE FORMATION OF ANNEALING TEXTURES IN IRON 67-08 M14-75582
CRYSTALLOGRAPHIC AND MAGNETIC PROPERTIES OF THIN FILMS OF IRON EPITAXIALLY GROWN ON FCC SUBSTRATES 67-09 M14-76592
EPITAXIAL GROWTH OF IRON ON TUNGSTEN FIELD EMISSION POINTS 67-10 M14-79573

IRON, CRYSTAL LATTICES
EFFECT OF SLIGHT IMPURITIES ON THE CRYSTAL LATTICE PARAMETER OF IRON 67-01 M13-57362
PERMEABILITY, SOLUBILITY, AND DIFFUSIVITY OF OXYGEN IN BCC IRON 67-01 M14-57410
DISLOCATION SUBSTRUCTURE IN IRON INDUCED BY ALPHA-GAMMA-ALPHA TRANSFORMATION CYCLING 67-01 M14-58466
DISPLACEMENT SPIKES IN CUBIC METALS. PT. 1. ALPHA IRON, COPPER, AND TUNGSTEN 67-01 M16-58753
STUDY OF POINT DEFECTS CREATED BY NEUTRON IRRADIATION OF IRON CONTAINING CERTAIN IMPURITIES 67-02 M13-61518
A CONSIDERATION ON THE DEVELOPMENT OF ROLLING TEXTURES IN ALPHA IRON 67-02 M14-59112
PRECIPITATION AND REPLACEMENT IN SOLUTION OF CARBON IN IRON 67-02 M14-61528
ELECTRON DIFFRACTION AT LOW TEMPERATURE 4. AMORPHOUS FILMS OF IRON AND CHROMIUM PREPARED BY LOW TEMPERATURE CONDENSATION 67-03 M13-65157
EDGE DISLOCATION CORE STRUCTURE AND THE PEIERLS BARRIER IN BODY-CENTERED CUBIC IRON 67-03 M13-65371
DEFORMATION AND SURFACE POLYGONIZATION OF IRON CRYSTALS OXIDIZED AT HIGH TEMPERATURES 67-03 M13-65553
ON THE RECOVERY OF PLASTICALLY DEFORMED IRON SINGLE CRYSTALS ABOVE ROOM TEMPERATURE

67-03 M14-65233
TWINNING DEFORMATION IN IRON AT 4 K
67-03 M17-65370
DISLOCATION MORPHOLOGY IN SHOCK DEFORMED BCC AND FCC METALS AND ALLOYS 67-04 M13-66071
ON THE GEOMETRY OF THE FORMATION OF ELECTRON DIFFRACTION PATTERNS FROM CRYSTALS OF MARTENSITE WITH FINE TWINS 67-04 M13-67392
METALLURGICAL APPLICATIONS OF A 500 KV ELECTRON MICROSCOPE 67-04 M13-67551
RECOVERY OF ELECTRICAL RESISTIVITY OF PURE IRON DEFORMED AT THE LIQUID NITROGEN TEMPERATURE
67-04 M14-66272
X-RAY STUDY OF THE RECRYSTALLIZATION OF ELECTROLYTIC IRON 67-04 M14-67377
PRODUCTION OF FE-CO ALLOYS IN HIGHLY-DISPERSED STATE AND STUDY OF THEIR CRYSTAL STRUCTURE
67-04 M14-67378
INTERNAL FRICTION METHOD OF DETERMINING THE CHARACTERISTICS OF A DISLOCATION STRUCTURE
67-04 M17-67645
EFFECT OF PRESSURE ON CRYSTAL STRUCTURE AND LATTICE PARAMETERS OF IRON UP TO 300 KBAR
67-05 M14-69220
CAMEL-HUMPS PEIERLS HILLS IN IRON
67-06 M13-70999
RELATIONSHIP BETWEEN THE ROLLING TEXTURE OF TECHNICALLY PURE IRON AND THE SHAPE OF DEFORMED GRAINS 67-06 M13-71374
DIRECT OBSERVATION OF GROWTH OF DEFORMATION TWINS IN FE-4.5 PER CENT SI CRYSTALS
67-06 M13-72149
SECONDARY RECRYSTALLIZATION IN PURE IRON AND SOME OF ITS ALLOYS 67-06 M14-71300
DISLOCATION STRUCTURE IN AS-GROWN HIGH-PURITY IRON SINGLE CRYSTALS 67-06 M14-71527
CLUSTERING OF CARBON ATOMS IN ALPHA-IRON
67-06 M14-71963
STRESS AND DELAY TIME FOR THE APPEARANCE OF TWINNING DEFORMATION IN IRON SINGLE CRYSTALS
67-06 M17-71734
DISLOCATION DYNAMICS IN DEFORMATION AND RECOVERY
67-07 M13-73057
DISLOCATIONS IN GRAIN BOUNDARIES AND GRAIN BOUNDARY SLIDING 67-07 M13-73920
DISLOCATION ARRANGEMENT IN MATERIALS DEFORMED AT HIGH VELOCITY 67-07 M13-74274
PRODUCTION AND PROPERTIES OF GRAINORIENTED COMMERCIALLY PURE IRON 67-07 M14-73536
DEPENDENCE OF THE DISLOCATION DENSITY ON THE STRAIN RATE 67-07 M17-73322
THE VARIATION WITH TEMPERATURE OF ATOMIC VIBRATION AMPLITUDES IN IRON 67-08 M13-74391
VACANCY CLUSTERS IN ALPHA-IRON 67-08 M13-74658
NEUTRON DIFFRACTION 67-08 M13-74692
LATTICE VIBRATIONS IN IRON AT 296K
67-08 M13-75001
ELECTRICAL RESISTIVITY STUDY OF LATTICE DEFECTS INTRODUCED IN ZONE REFINED-IRON BY DEFORMATION AT MINUS 196 C 67-08 M14-75051
LATTICE DEFECTS IN SINGLE CRYSTALS OF COARSE-GRAINED POLYCRYSTALLINE IRON SPECIMENS DURING TENSILE DEFORMATION 67-09 M14-76795
NUCLEATION OF DISLOCATIONS AROUND INCLUSIONS IN IRON 67-09 M14-78204
THE MECHANISM OF NUCLEATION OF DISLOCATIONS AROUND INCLUSIONS IN IRON 67-09 M14-78205
MICROSTRUCTURAL RESEARCH INTO THE TRANSITION FROM SLIP INTO TWINNING IN IRON 67-10 M13-78385
LEED STUDIES OF OXYGEN ABSORPTION AND OXIDE FORMATION ON AN --011-- IRON SURFACE
67-10 M14-79567
MOBILITY OF --100-- AND --110-- DISLOCATIONS IN BCC IRON 67-11 M13-80106
THE EFFECT OF CARBON AND NICKEL UPON THE STACKING-FAULT ENERGY OF IRON 67-11 M13-80107
MIGRATION ENERGY AND SOLUBILITY OF OXYGEN IN BODY CENTERED CUBIC IRON 67-11 M14-80375
A TRANSMISSION ELECTRON MICROSCOPIC STUDY OF THE EARLY STAGE OF RECRYSTALLIZATION IN PURE IRON
67-11 M14-81061
X-RAY K ABSORPTION EDGES OF ALLOYS. PT. 1. CORRELATION TO BAND MODELS 67-11 M16-80118

IRON, DEFORMATION
USE OF PHOTOGRAPHY FOR ANALYSIS OF DEFORMATION KINETICS OF ARMCO IRON 67-02 M17-60981

IRON, DEPOSITION
NUCLEATION IN ELECTROLYTIC METAL DEPOSITION
67-11 M12-80806

IRON, DIFFRACTION
DIFFRACTION PHOTOGRAPHY PICKS UP SPEED
67-04 M13-66108

IRON, DIFFUSION
KINETICS OF THERMODIFFUSIVE PROCESSES IN WELDING
67-01 M11-57645
DIFFUSION OF IRON IN SOME MOLTEN NONFERROUS METALS
67-01 M14-57515
SELF-DIFFUSION AND DIFFUSION OF COBALT IN ALPHA AND DELTA-IRON 67-01 M14-57938
DIFFUSION OF IRON AND SILVER IN BERYLLIUM
67-01 M14-58025
REACTION DIFFUSION OF IRON IN ALUMINUM
67-01 M14-58047
DETERMINING DIFFUSION OF CALCIUM, IRON AND SULFUR IN SINTERED OXIDIZED NICKEL ORES
67-02 M14-60087
FORMATION OF THE ALLOY LAYER IN THE FE-AL DIFFUSION COUPLES 67-02 M14-60154
DIFFUSION OF COPPER IN IRON 67-02 M14-61077
CALCULATION OF DIFFUSION PARAMETERS
67-02 M14-61918
DIFFUSION OF H2-H2O THROUGH POROUS IRON FORMED BY THE REDUCTION OF HEMATITE 67-03 M14-65100
THE INTERACTION OF IRON WITH MOLTEN URANIUM
67-03 M14-65855
STUDY OF FACTORS INTERVENING IN HYDROGEN DIFFUSION IN IRON 67-04 M14-66351
OBSERVATION AND QUANTITATIVE MEASUREMENTS OF GRAIN BOUNDARY DIFFUSION PHENOMENA IN IRON AND COBALT
67-04 M14-67562
SELF-DIFFUSION IN HIGHLY-DILUTED BINARY SOLUTIONS. PT. 3. EFFECT OF SN, SB, PB AND BI PHASE
67-04 M14-67919
DIFFUSION PROCESSES IN CHROMIUM-IRON ALLOYS
67-05 M14-68247
DIFFUSION OF PHOSPHORUS IN IRON
67-05 M14-68376
EFFECT OF HEATING RATE ON THE PROPORTION OF VOLUMETRIC AND BOUNDARY DIFFUSION OF CHROMIUM IN IRON 67-05 M14-69662
DIFFUSION OF OXYGEN AND NITROGEN IN LIQUID IRON
67-06 M14-69924
STUDY OF THE KINETICS OF DIFFUSION OF SEVERAL ELEMENTS FROM THE SAME SOURCE
67-06 M14-70322
THE BOUNDARY DIFFUSION OF NICKEL INTO IRON
67-06 M14-70332
DIFFUSION AND SOLUBILITY OF ZINC, CADMIUM, INDIUM AND IRON IN LEAD SELENIDE 67-06 M14-70939
STUDY OF SELF-DIFFUSION AND DIFFUSION OF IRON IN IRON-COPPER ALLOYS 67-06 M14-71396
DIFFUSION MECHANISM IN BODY-CENTERED CUBIC METALS
67-06 M14-72066
SELF-DIFFUSION AND DIFFUSION OF FOREIGN ATOMS IN BERYLLIUM 67-07 M14-73749
CORROSION RESISTANCE OF ARMCO IRON IN LIQUID LITHIUM 67-07 M18-73166
THE SOLUTION OF CARBON IN LIQUID RAW IRON
67-08 M14-75067
EFFECT OF PRESSURE ON THE DIFFUSION OF FE IN TI AND TI PLUS 10 PER CENT FE 67-08 M14-75225
INVESTIGATION OF THE KINETICS OF THE SOLUBILITY OF HYDROGEN IN FE, NI, CO AND CU
67-08 M14-75662
OXYGEN DIFFUSION IN MELTED IRON
67-08 M14-75869
TEMPERATURE DEPENDENCE OF INTERGRANULAR ADSORPTION OF CARBON AND PHOSPHORUS IN IRON AND STEEL
67-09 M14-77366
SULFURIZATION KINETICS OF DELTA IRON AT 1410 C
67-09 M14-77731
DIFFUSION OF HYDROGEN IN ALPHA-IRON AT ABOUT 120 K 67-09 M14-77934
THE CONNECTION BETWEEN THE DIFFUSION FACTORS ALONG GRAIN BOUNDARIES AND SURFACE TENSION
67-10 M14-78354
DIFFUSION OF ALUMINUM IN THE BINARY IRON-BRONZE SYSTEM 67-10 M14-78368
SOLID STATE DIFFUSION IN FE-ZN 67-10 M14-78400
INFLUENCE OF HYDROGEN ON THE PROPERTIES OF IRON AND ITS ALLOYS 67-10 M14-78527
DIFFUSION IN THE FE-NI SYSTEM 67-10 M14-79710
DETERMINATION OF THE INTRINSIC COEFFICIENTS OF DIFFUSION BY MEASURING THE KIRKENDALL EFFECT IN THE FE-NI SYSTEM 67-10 M14-79711
INFLUENCE OF ELECTRICAL CONDITIONS ON THE DIFFUSION OF HYDROGEN IN IRON AND CARBON STEELS
67-10 M14-79986

OXIDATION BEHAVIOR OF MIXED FE AND MN PROTOXIDES AND THEIR LACUNAR STRUCTURE 67-11 M14-80357
STUDY OF THE DIFFUSION OF SODIUM AND POTASSIUM IN IRON 67-11 M14-80582
HERRING-NABARRO CREEP STUDIES ON THE SELF-DIFFUSION OF IRON IN THE PRESENCE OF SOLUTES 67-11 M14-80621
THE EFFECT OF ORGANIC SUBSTANCES UPON THE ABSORPTION OF CATHODICALLY PRODUCED HYDROGEN BY IRON IN ELECTROLYTE SOLUTIONS 67-12 M14-82426
SOLUBILITY, PERMEABILITY, AND DIFFUSIVITY OF OXYGEN IN SOLID IRON 67-12 M14-82559
THE EFFECT OF PHOSPHORUS ON THE NITROGEN SOLUBILITY AND DIFFUSIVITY IN ALPHA IRON 67-12 M14-82714
INTERSTITIAL DIFFUSION IN THE BCC LATTICE 67-12 M14-82965
A COMPUTER ANALYSIS OF GAS-METAL DIFFUSION 67-12 M14-83070
STUDY OF THE EFFECT OF ULTRASONIC VIBRATIONS ON THE DIFFUSION OF PHOSPHORUS AND CARBON IN IRON 67-12 M14-83409

IRON, DISLOCATIONS
SOME REGULARITIES IN THE FORMATION OF A DISLOCATION STRUCTURE ON THE COLD PLASTIC DEFORMATION OF FE AND MO 67-02 M13-61935

IRON, DISSOLVING
SOLUBILITY STUDIES OF ULTRA PURE TRANSITION ELEMENTS IN ULTRA PURE ALKALI METALS 67-01 M15-58508
DISSOLUTION OF COMMERCIALLY AVAILABLE SILICON NITRIDE INTO LIQUID IRON 67-08 M14-75305

IRON, DOPES
ELECTROLUMINESCENCE OF IRON-SULFUR DIFFUSED GAAS JUNCTIONS 67-06 M16-71145

IRON, ELECTRICAL PROPERTIES
FERROMAGNETIC HALL EFFECT WITH ELECTRON-PHONON INTERACTIONS 67-01 M15-58749
THE MATTEUCCI EFFECT IN IRON AND NICKEL WIRES 67-03 M15-65721
THERMODYNAMIC AND KINETIC CONSIDERATIONS CONCERNING THE IRON CORROSION ELECTRODE 67-04 M12-67754
THE INFLUENCE OF OXYGEN AND HYDROGEN ON THE ELECTRICAL CONDUCTIVITY OF IRON THIN FILMS 67-04 M15-67241
THE ELECTRICAL AND THERMAL RESISTIVITIES OF IRON 67-05 M15-69774
THE DEPENDENCE OF THE ELECTRICAL CONDUCTIVITY OF METALLIC WHISKERS ON THE DIAMETER 67-07 M15-72601
EFFECT OF GRAIN BOUNDARIES ON THE ELECTRICAL RESISTIVITY OF HIGH-PURITY IRON AT 4.2 K 67-08 M15-75121
GALVANOMAGNETIC EFFECTS IN IRON WHISKERS 67-08 M16-74946
STUDY OF THE ELECTRICAL RESISTANCE OF IRON-SILICON ALLOYS IN THE 800 TO 1700 C. TEMPERATURE RANGE 67-11 M15-80743
RECOVERY OF ELECTRICAL RESISTIVITY IN PURE IRON DEFORMED AT 77 K 67-12 M15-83152

IRON, ELECTROCHEMISTRY
ANODIC DISSOLUTION OF IRON IN POTASSIUM AND SODIUM CHLORIDE MELTS 67-02 M02-61549

IRON, ELECTROLYTIC POWDERS
COMPARATIVE INVESTIGATION OF THE DRESSING AND SINTERING BEHAVIOR OF A NEW TYPE OF ELECTROLYTIC IRON POWDER 67-12 M09-81990

IRON, ELEMENTARY PARTICLES
ANNIHILATION OF POSITRONS WITH ELECTRONS IN PLASTICALLY DEFORMED METALS WITH BCC LATTICES 67-04 M16-66001

IRON, EXTRACTION
METHOD OF OBTAINING IRON BY ELECTROLYSIS OF FUSED SALTS WITH CONSUMABLE ANODES 67-06 M04-70948
IRON POWDER FROM PICKLING WASTES 67-06 M09-72214
ELECTROTHERMAL EXTRACTION OF COPPER, LEAD AND IRON FROM SLAG DUMP FROM THE ALAVERDI COPPER CHEMICAL COMBINE 67-09 M03-77039
SELECTIVE REDUCTION OF ELEMENTS FROM A VANADIUM CONVERTER SLAG 67-11 M04-81407
CONTINUOUS IRON PROCESS NEARS PILOT PLANT 67-12 M04-82991

IRON, EXTRUSION
HOT EXTRUSION OF METAL POWDERS 67-09 M09-77056

IRON, FIBER METALLURGY
CALCULATION OF NUCLEATION FIELD STRENGTH IN CYLINDRICAL IRON SPECIMENS 67-12 M15-82226

IRON, FLUID MECHANICS
INVESTIGATION OF THE HYDROMECHANICAL EFFECT OF THE IMPACT OF DROPS 67-09 M18-77351

IRON, FORMING
IMPROVED EFFICIENCY IN WIREDRAWING WITH ULTRASOUND 67-04 M08-66923
PROBLEMS RELATING TO THE EXPLOSIVE FORMING OF FERROUS ALLOYS 67-05 M08-69748

IRON, GETTERING
THE GETTERING OF IRON FROM SILICON 67-11 M14-80538

IRON, GRINDING
INVESTIGATION OF THE GRINDING PROCESS OF SINTERED STEEL 67-06 M09-72329

IRON, HARDENING
ELECTRON MICROSCOPIC SURFACE AND TRANSMISSION INVESTIGATIONS OF IRON SINGLE CRYSTALS AND THE INFLUENCE OF THE ORIENTATION ON THE WORK-HARDENING BEHAVIOR 67-03 M13-65218
METHOD OF OBTAINING METAL BORIDES 67-04 M09-66962
STUDY OF THE MICROCRYSTALLINE LAYERS OF CHROMIUM NITRIDE, CR2N BETA PHASE, AT THE SURFACES OF ARMCO IRON CHROMIZED IN THE GASEOUS PHASE 67-04 M14-67747

IRON, HEAT TREATMENT
THE TWO-STAGE PRECIPITATION OF CARBON FROM FERRITE 67-01 M14-58460
THE REVERSION PHENOMENON IN IRON-NITROGEN ALLOYS 67-01 M14-58746
STUDY OF THE KINETICS OF INDUCTION HEATING OF POROUS IRON 67-02 M10-60071
INFLUENCE OF DISK-LIKE PRECIPITATES ON THE COERCIVE FORCE IN ALPHA IRON 67-02 M15-61038
INTRODUCTION OF C14 INTO IRON AND NICKEL ALLOYS 67-06 M10-71338
RECRYSTALLIZATION BEHAVIOR OF SOME HIGH-PURITY IRONS 67-06 M14-70814
STUDY ON NITRIDING PURE IRON 67-07 M10-73290
CARBURIZATION EQUILIBRIA OF ALPHA-IRON WITH METHANE-HYDROGEN MIXTURES IN THE RANGE 600 TO 800 C. AND THEIR THERMODYNAMIC EVALUATION 67-09 M10-77076
THE IMPORTANCE OF SURFACE TREATMENT DURING DECARBURIZING ANNEALING OF COMMERCIAL IRON 67-09 M10-77088
THE SURFACE BORIDING OF STEEL. PT. 2. GROWTH MECHANISM AND STRUCTURE OF INTERMEDIATE AND DIFFUSION LAYERS 67-09 M10-77879
BORONIZING OF IRON 67-09 M10-78209
DECARBURIZATION AND DEOXIDATION PROCESSES IN LIQUID IRON 67-09 M14-77081
FUNDAMENTALS OF THERMOMECHANICAL TREATMENTS 67-10 M10-79210
PRESENT STATE OF THE METAL ALLOYS AGING THEORY 67-10 M10-79213
CEMENTATION HARDENING BY INDUCTION HEATING IN A LIQUID MEDIUM 67-12 M10-83106

IRON, IMPURITIES
EFFECT OF IRON IMPURITIES ON ELECTROLYSIS OF MAGNESIUM CHLORIDE 67-02 M03-59691

IRON, INFILTRATION
INFILTRATION OF COPPER AND BRASS INTO SINTERED IRON COMPACTS 67-07 M14-73252

IRON, INTERMETALLICS
THE CRYSTAL STRUCTURES OF THE RARE-EARTH COMPOUNDS OF THE FORM R2NI17, R2CO17 AND R2FE17 67-01 M13-58536
DOMAIN STRUCTURE OF HEXAGONAL FERRIMAGNETIC OXIDES WITH HIGH ANISOTROPY FIELD 67-01 M15-57120
MAGNETIC PROPERTIES OF RARE-EARTH-IRON INTERMETALLIC COMPOUNDS 67-01 M15-58655
THE CRYSTAL STRUCTURE OF CEFE7, PRFE7, NDFE7 AND SMFE7 67-02 M13-60888
ORDERING PROCESSES AND STRAIN AGEING OF TERNARY ORDERED ALLOYS BASED ON NI3FE 67-04 M14-67641
MAGNETIZING FINELY-DISPERSED PARTICLES OF FE-CO ALLOY 67-04 M15-66480
ANTIFERRO-FERROMAGNETIC TRANSITION IN FE --PTPD--3 ALLOYS 67-04 M15-67662
MOSSBAUER STUDY ON FESN AND FE3SN 67-04 M15-68063
OXIDE DISPERSION-STRENGTHENED NIAL AND FEAL 67-04 M17-66933
ANTIPHASE STRUCTURE OF THE ALLOY FE3AL 67-05 M13-69335
DISLOCATION IN THE DIRECTION --110-- AND HARDENING

OF ALLOY WITH L12 STRUCTURE 67-05 M13-69470
AN ANALYSIS OF LATTICE VIBRATIONS OF ORDERED FE3AL 67-05 M14-69577
MOSSBAUER EFFECT STUDY OF BCC STRUCTURE ALLOYS, FEAL AND FETI 67-06 M15-70418
TENSILE RESULTS IN ORDERED AND DISORDERED NI3FE SINGLE CRYSTALS 67-06 M17-72240
EFFECTS OF MECHANICAL AND THERMAL TREATMENT ON THE STRUCTURE AND MAGNETIC TRANSITIONS IN FERH 67-07 M15-73549
PARALLEL OBLIQUE-INCIDENCE ANISOTROPY IN NIFE FILMS 67-07 M15-73574
NEUTRON DIFFRACTION STUDY OF FESN 67-08 M15-76170
INVESTIGATIONS ON THE SOLID SOLUTION SERIES-- Y6MN23-Y6FE23 AND YMN2-YFE2 67-09 M13-77025
NOTE ON THE STRUCTURES OF TBFE2 AND TBFE3 67-10 M13-78562
NEUTRON DIFFRACTION ANALYSIS OF FE-CO ATOMIC FERROMAGNETIC SUPERLATTICES 67-10 M13-79916
MOSSBAUER STUDY OF INTERMETALLIC FE5GE3 SYSTEM 67-10 M15-78442

IRON, INTERNAL FRICTION
EFFECT OF PLASTIC DEFORMATION ON THE AMPLITUDE DEPENDENCE OF THE DAMPING CAPACITY OF IRON 67-02 M17-61687

IRON, IRRADIATION
STUDY BY THE MAGNETIC LAG METHOD OF THE DEFECTS CREATED BY IRRADIATION IN IRON. PT. 2 67-01 M13-58021
SMALL-ANGLE CRITICAL MAGNETIC SCATTERING OF NEUTRONS IN IRON 67-04 M16-67792
EFFECT OF CHEMICAL COMPOSITION AND NEUTRON IRRADIATION ON BRITTLE FRACTURE OF IRON AND STEEL 67-12 M16-82815
DEPENDENCE OF RADIATION DEFECT DENSITY IN STEEL ON THE ENERGETIC SPECTRUM OF NEUTRONS 17-22 67-12 M16-83363

IRON, LIQUID METALS
CHANGE OF THE DISSOLVED OXYGEN CONTENT IN SILICON DEOXIDATION 67-01 M04-58308
EFFECT OF OXYGEN ON ACTIVITY OF SULFUR DISSOLVED IN MOLTEN IRON AT 1600 C 67-04 M14-66904
EFFECT OF ALLOYING ELEMENTS ON THE ACTIVITY OF SULFUR DISSOLVED IN MOLTEN IRON AT 1600 C 67-04 M14-66905
EFFECT OF CERIUM ON THE ACTIVITY OF SULFUR IN MOLTEN IRON 67-04 M14-66954
DECARBURIZATION OF IRON-CARBON MELTS IN CO2-CO ATMOSPHERES--KINETICS OF GAS-METAL SURFACE REACTIONS 67-12 M04-82955
THE DIFFUSION OF HYDROGEN IN LIQUID IRON 67-12 M14-82753
MEASUREMENT OF OXYGEN ACTIVITY IN IRON, IRON-SILICON MANGANESE, AND IRON-MANGANESE MELTS USING SOLID ELECTROLYTE GALVANIC CELLS 67-12 M15-82741

IRON, MACHINING
INVESTIGATION OF CERMET STABILITY DURING CUTTING OF POROUS IRON 67-02 M09-59614
SERVICE LIFE OF HARD ALLOY TOOLS IN THE MACHINING OF POROUS SINTERED MATERIALS 67-09 M08-76929

IRON, MAGNETIC PROPERTIES
EFFECTS OF GASES ON THE PROPERTIES OF VAPOR-DEPOSITED NI-FE FILMS 67-01 M15-57113
FERROMAGNETIC DOMAIN STRUCTURE OF IRON WHISKERS WITH --111-- AXES 67-01 M15-58654
SLOW RELAXATION EFFECTS IN MAGNETICALLY NONUNIFORM MATERIALS 67-01 M15-58667
A CALCULATION ON THE TEMPERATURE VARIATION OF THE MAGNETIZATION FOR IRON METAL 67-02 M15-59471
FERROMAGNETIC RESONANCE IN THIN SINGLE-CRYSTAL PLATELETS OF IRON 67-02 M15-61095
HYSTERESIS LOOPS ON BIAXIAL FERROMAGNETIC FILMS 67-02 M15-61161
MAGNETIC PROPERTIES OF SINGLE-CRYSTAL LAYERS OF FE, NI, CO AND THEIR ALLOYS 67-02 M15-61514
INTERACTION EFFECTS OF IRON SINGLE-PHASE PARTICLES IN FROZEN SUSPENSIONS 67-02 M15-61532
DYNAMIC MAGNETOSTRICTION OF IRON IN PULSATING FIELDS 67-02 M15-61664
MAGNETOSTRICTION OF IRON IN VARIABLE FIELDS 67-02 M15-61667
ANISOTROPY DISTRIBUTION AND NATURAL FERROMAGNETIC RESONANCE IN SINGLE-DOMAIN PARTICLES OF FE AND FE-CO ALLOY 67-02 M15-62072
EPITAXIAL FILMS OF IRON, NICKEL AND COBALT 67-02 M15-62078
HALL EFFECT OF THIN IRON FILMS 67-03 M15-65187
TEMPERATURE AND DEFORMATION DEPENDENCE OF THE COERCIVE FIELD STRENGTH OF IRON SINGLE CRYSTALS. PT. 2 67-03 M15-65377
FERROMAGNETIC DOMAIN WALL INTERACTIONS USING LORENZ ELECTRON MICROSCOPY 67-03 M15-65893
MAGNETIC PROPERTIES OF IRON AND INVAR UNDER HIGH PRESSURE 67-03 M15-65915
MOSSBAUER EFFECT IN IRON CONTAINING THIRD SERIES TRANSITION ELEMENTS 67-03 M16-65745
MEASUREMENT OF CURIE TEMPERATURE BY AN INDUCTION METHOD 67-04 M15-66305
MAGNETIZATION PROCESSES IN THE HIGH-FIELD RANGE OF FERROMAGNETICS MADE BY PRESSING FERROMAGNETIC PARTICLES 67-04 M15-66484
MAGNETORESISTANCE AND EFFECT OF BLOCH WALLS IN ZONE-MELTED IRON 67-04 M15-67259
STUDY OF THE LAW OF APPROXIMATION TO SATURATION OF FE AND FE-SI ALLOYS 67-04 M15-67912
MOSSBAUER MEASUREMENT OF HYPERFINE FIELD IN MARTENSITE 67-05 M16-69096
INTERNAL FIELDS AT NUCLEI OF SEVERAL IMPURITIES IN FERROMAGNETIC FE, CO AND NI ALLOYS. PT. 2 67-05 M16-69765
INTERACTION BETWEEN DISLOCATIONS AND BLOCK WALLS WITH FIXED MAGNETIZATION 67-06 M15-70989
INFLUENCE OF THE ANOMALOUS SKIN EFFECT ON THE FERROMAGNETIC-RESONANCE LINEWIDTH IN IRON 67-06 M15-71796
INVESTIGATION OF THE MAGNETIC STRUCTURE OF A FERROMAGNETIC SUBSTANCE BY MAGNETO-OPTIC APPARATUS WITH MICRON RESOLUTION 67-06 M15-71922
CONTRAST IN THE ELECTRON MICROSCOPE DUE TO STRAY MAGNETIC FIELDS NEAR SINGLE-DOMAIN IRON WHISKERS 67-07 M15-73554
FORCED MAGNETOSTRICTION OF NICKEL, COBALT, AND IRON AT 4.2 K 67-07 M15-73561
GALVANOMAGNETIC PROPERTIES OF SINGLE-CRYSTAL IRON FILMS AND WHISKERS 67-07 M15-73562
MAGNETOELASTIC INTERACTION OF DISLOCATIONS AND FERROMAGNETIC DOMAIN WALLS AND TORSIONAL MICROCREEP EXPERIMENTS ON IRON AND NICKEL TUBES 67-07 M15-73565
MAGNETIC PROPERTIES AND ANNEALING BEHAVIOR OF ELECTRODEPOSITED NIFES THIN FILMS 67-07 M15-73596
THE MEASUREMENT OF SATURATION MAGNETOSTRICTION OF POLYCRYSTALLINE AND FERROMAGNETIC ALLOYS AND FERRITES IN THE MINUS 140 TO PLUS 160 C. RANGE 67-07 M15-73802
PROBLEMS IN THE DEVELOPMENT AND USE OF SILICON-IRONS, ORIENTED CRYSTAL AND NONORIENTED 67-07 M15-73811
THE APPLICATION OF SLFT MAGNETIC MATERIALS IN NUCLEAR ENGINEERING 67-07 M15-73814
ORIGIN OF THE PERIODIC COMPONENT OF ANISOTROPY DISPERSION IN NI-FE FILMS. PT. 2 67-08 M15-74608
FERROMAGNETIC RESONANCE IN SMALL PARTICLES OF NICKEL, COBALT AND IRON 67-08 M15-74636
MAGNETIC PROPERTIES OF SINTERED COMPACTS OF IRON POWDERS WITH AND WITHOUT PHOSPHORUS ADDITION 67-09 M15-78247
THE MAGNETOELASTIC INTERNAL DAMPING IN IRON 67-10 M15-79482
INVESTIGATION OF THE MAGNETIC STRUCTURE OF FERROMAGNETIC SUBSTANCES BY A MAGNETOOPTICAL APPARATUS WITH MICRON RESOLUTION 67-10 M15-79541
FINE MAGNETIC DOMAIN STRUCTURES OF IRON, NICKEL AND COBALT FILMS 67-10 M15-79840
TEMPERATURE DEPENDENCE OF THE ISOMER SHIFT AND THE HYPERFINE FIELD NEAR THE CURIE POINT IN IRON 67-10 M16-79281
THE USE OF THE MAGNETO-OPTICAL KERR EFFECT FOR THE DETERMINATION OF MAGNETIZATION CURVES 67-11 M15-80230
A NOTE ON THE CONSISTENCY OF VALUES OF THE SPONTANEOUS OR SATURATION MAGNETIZATION OF POLYCRYSTALLINE IRON AND NICKEL AT 298 K 67-11 M15-80609
THE INITIAL SUSCEPTIBILITY ABOVE AND THE SPONTANEOUS MAGNETIZATION UNDER THE CURIE TEMPERATURE OF FE, CO AND NI 67-11 M15-80807
ANHYSTERETIC MAGNETIZATION PROCESS AND MOSSBAUER EFFECT IN IRON POWDER 67-11 M15-80936
THE EFFECT OF SURFACE ON THE PROPERTIES OF HIGHLY DISPERSED FERROMAGNETIC POWDERS 67-12 M15-82322

FERROMAGNETIC RESONANCE OF HE3-IRRADIATED THIN METAL FILMS 67-12 M15-83266

IRON, MECHANICAL PROPERTIES
THE EFFECT OF INTERSTITIAL IMPURITIES UPON CROSS-SLIP IN IRON 67-01 M13-57940
INTERNAL STRESSES IN TENSILE SPECIMENS OF ALUMINUM ALLOYS AND IRON AFTER PLASTIC DEFORMATION 67-01 M17-57292
THE EFFECT OF STRESS ON STRAIN AGEING 67-01 M17-57480
A CONSTANT-STRESS, VACUUM CREEP-TESTING APPARATUS 67-01 M17-57544
INVESTIGATION OF THE EFFECT OF ELECTRIC DISCHARGE MACHINING ON THE PROPERTIES AND STRUCTURE OF METALS 67-01 M17-58041
YIELD STRESS AND OTHER TENSILE PROPERTIES OF NITROGEN OR CARBON CHARGED PURE IRON 67-01 M17-58748
EFFECTS OF ORIENTATION AND CARBON ON THE MECHANICAL PROPERTIES OF IRON SINGLE CRYSTALS 67-02 M17-58949
THE EFFECT OF INTERSTITIAL IMPURITIES ON RADIATION HARDENING AND EMBRITTLEMENT IN IRON 67-02 M17-58950
SOME FEATURES OF THE FRACTURE MECHANISM OF COMMERCIAL IRON DURING FATIGUE TESTS WITHIN WIDE RANGES OF TEMPERATURE 67-02 M17-59705
THE FATIGUE STRENGTH OF SINTERED MATERIALS 67-02 M17-60507
USE OF ULTRASOUND IN TENSILE TESTING OF METALS 67-02 M17-60666
PREVENTION OF HYDROGEN EMBRITTLEMENT IN LITHIUM-COATED PARTS DURING WASHING IN SOLUTIONS 67-02 M17-60973
DAMPING CAPACITY ON THE ALPHA-GAMMA TRANSFORMATION OF IRON. PT. 2 67-02 M17-61172
STRUCTURAL CHANGES IN METALS DURING ALTERNATING PLASTIC DEFORMATION 67-02 M17-61675
DAMPING CAPACITY ON THE ALPHA-GAMMA TRANSFORMATION OF IRON. PT. 1. 67-02 M17-61934
YIELD STRENGTH OF IRON QUENCHED FROM ALPHA REGION 67-02 M17-62092
INVESTIGATION OF THE MECHANICAL PROPERTIES OF POROUS IRON IN TENSION AND TORSION. PT. 2 67-02 M17-62115
THE EFFECT OF HYDROGEN CHARGING ON THE PETCH RELATIONSHIP FOR ZONE-REFINED IRON 67-03 M17-65093
CHANGE OF THE DEFORMATION MECHANISM --SLIPTWINNING-- IN POLYCRYSTALLINE ALPHA-IRON 67-03 M17-65229
PHASE AND STRUCTURAL TRANSFORMATIONS IN CARBON STEELS DEFORMED BY IMPACT 67-04 M14-66955
THE MECHANICAL DAMPING OF IRON FROM ROOM TEMPERATURE TO 400 C. AT 7 MEGACYCLES/SEC 67-04 M17-66051
A MODIFIED DOUBLE PILE-UP TREATMENT OF THE INFLUENCE OF GRAIN SIZE AND DISPERSED PARTICLES ON BRITTLE FRACTURE 67-04 M17-66066
THE CHANGE OF MECHANICAL AND PHYSICAL PROPERTIES OF ALPHA-IRON DUE TO TENSION, COMPRESSION, TORSION AND ROLLING 67-04 M17-66195
INTERNAL FRICTION AND BASIC FATIGUE MECHANISIMS IN BODY-CENTERED CUBIC METALS, MAINLY IRON AND CARBON STEELS 67-04 M17-66227
ACTIVATION ENERGY OF THE TEMPERATURE BACKGROUND OF INTERNAL FRICTION 67-04 M17-66497
COMMENT ON THE EFFECT OF CARBON ON THE STRAIN RATE SENSITIVITY OF IRON SINGLE CRYSTALS 67-04 M17-66545
REPLY TO COMMENT ON THE EFFECT OF CARBON ON THE STRAIN RATE SENSITIVITY OF IRON SINGLE CRYSTALS 67-04 M17-66546
NITROGEN IN NONALLOYED FERRITIC METAL 67-04 M17-66568
EVALUATION OF THE CHARACTERISTICS OF DISLOCATION STRUCTURE IN MEASURING THE AMPLITUDE DEPENDENCE OF INTERNAL FRICTION 67-04 M17-66827
REDUCTION OF ADSORPTION CAPACITY BY STEEL SPECIMENS IN CONTACT WITH A MELT, AND THE ROLE OF GASEOUS IMPURITIES 67-04 M17-67048
STATISTICAL ESTIMATION OF STRENGTH OF POROUS IRON SPECIMENS 67-04 M17-67342
STUDY ON THE STRENGTH AND PLASTICITY OF SINTERED IRON DURING TENSION AT LOW TEMPERATURES 67-04 M17-67345
DYNAMIC PROPAGATION OF DEFORMATION TWINS IN IRON SINGLE CRYSTALS 67-04 M17-67475
STUDY OF TEMPER BRITTLENESS BY A METHOD USING AMPLITUDE-DEPENDENT INTERNAL FRICTION 67-04 M17-67820
HIGH HARDNESS OF ELECTROLYTIC IRON RESIDUES 67-04 M17-67840
ANALYSIS OF TEMPERATURE AND RATE RELATIONSHIPS OF YIELD STRENGTH AND FLOW STRESS OF ARMCO IRON IN THE LOW-TEMPERATURE RANGE 67-04 M17-67924
EFFECT OF PRE-YIELD RELAXATION ON THE YIELDING OF IRON 67-05 M17-68434
NEW WORK ON THE X-RAY DETERMINATION OF STRESSES AND INTERNAL DEFORMATION 67-05 M17-68526
THE EFFECT OF ELASTIC ANISOTROPY ON THE X-RAY STRESS MEASUREMENT IN STEEL SPECIMENS 67-05 M17-68527
EFFECT OF CYCLICAL THERMOMAGNETIC TREATMENT IN THE CURIE POINT REGION ON THE PLASTIC PROPERTIES OF IRON AND STEEL 67-05 M17-69660
THE CRITICAL SHEAR STRESS OF CUBIC CRYSTALS WITH TETRAGONAL DEFECT SYMMETRY. PT. 4. THE LOWER YIELD STRESS OF ALPHA-IRON 67-05 M17-69780
INTERNAL FRICTION OF FE-CR-N ALLOYS AND PRECIPITATION OF CHROMIUM NITRIDE 67-05 M17-69854
AN ESTIMATE OF THE DAMAGE TO COMMERCIAL IRON DURING FATIGUE TESTING AT 20 TO 800 C 67-06 M17-69980
INVESTIGATION OF RESIDUAL STRESSES IN ARMCO IRON INDUCED BY DEFORMATION IN ULTRASONIC FIELD 67-06 M17-70058
INVESTIGATION OF THE AMPLITUDE DEPENDENCE OF INTERNAL FRICTION IN IRON AT LOW TEMPERATURES 67-06 M17-70324
ON THE MECHANISM OF THE KOSTER RELAXATION PEAK 67-06 M17-70442
THE EFFECT OF FREE DISLOCATIONS ON YIELDING AND FRACTURE IN BODY-CENTERED CUBIC METALS 67-06 M17-70624
GRAIN SIZE DEPENDENCE OF THE YIELD STRESS AND THE FLOW STRESS IN PURE IRON 67-06 M17-70788
ULTRASONIC LOSS MEASUREMENTS DURING ELASTIC-PLASTIC DEFORMATION AT THE YIELD POINT 67-06 M17-71174
STRESS ANALYSIS BY ULTRASONIC METHODS 67-06 M17-71175
DISLOCATION CONTRIBUTION TO THE FLOW STRESS OF POLYCRYSTALLINE IRON 67-06 M17-71523
PLASTICITY OF IRON SINGLE CRYSTALS 67-06 M17-71532
MICROSTRAIN BEHAVIOR OF BODY-CENTERED CUBIC METALS 67-06 M17-71533
THE CONDITION FOR THE APPEARANCE OF NECKING UNDER TENSILE TESTS 67-06 M17-71543
ON THE CALCULATION OF POLYCRYSTALLINE ELASTICITY CONSTANTS FROM SINGLE CRYSTAL DATA 67-06 M17-71669
YIELDING OF PRESSURIZED IRON 67-06 M17-72228
RELATION BETWEEN THE PETCH FRICTION STRESS AND THE THERMAL ACTIVATION RATE EQUATION 67-06 M17-72236
INFLUENCE OF THE WORK IN FATIGUE CONDITIONS ON COLD SHORTNESS OF STEEL 67-06 M17-72309
PLASTIC DEFORMATION OF IRON WHISKERS 67-07 M17-72410
PRESSIBILITY OF SINTERED IRON 67-07 M17-72522
THE INFLUENCE OF CARBON AND NITROGEN ON THE FLOW STRESS OF POLYCRYSTALLINE IRON 67-07 M17-72533
AN X-RAY STUDY ON DEFORMED STRUCTURE OF POLYCRYSTALLINE IRON 67-07 M17-72907
USING ULTRASOUND TO TEST METALS UNDER TENSION 67-07 M17-73102
MICROHARDNESS OF POROUS IRON IN A STRESSED STRAINED STATE 67-07 M17-73270
PRESENT STATE OF THE DETERMINATION OF STRESSES BY X-RAY INVESTIGATION 67-07 M17-73291
EFFECTS OF IRRADIATION IN IRON AND STEELS 67-07 M17-73378
LOW-TEMPERATURE EMBRITTLEMENT OF IRON, IRON ALLOYS, AND STEELS BY NEUTRON IRRADIATIONS 67-07 M17-73379
NITROGEN IN UNALLOYED FERRITIC METAL 67-07 M17-73425
STRAIN AGING EFFECTS AND STRESS RELAXATION IN IRON DURING SHOCK LOADING 67-07 M17-73902
COLD WORK INTERNAL FRICTION PEAK IN IRON 67-07 M17-73913
COMPARISON OF THE HALL-PETCH PARAMETERS OF ZONE-REFINED IRON DETERMINED BY THE GRAIN SIZE AND EXTRAPOLATION METHODS 67-07 M17-73915

COMPONENTS OF THE FLOW STRESS OF RION
67-07 M17-73924
THE FATIGUE PROPERTIES OF SINTERED IRON AND STEEL
67-08 M09-75386
MECHANICAL PROPERTIES OF HOT EXTRUDED OR HOT PRESSED DISPERSION STRENGTHENED IRONS CONTAINING AL203, MGO AND SIO2 PARTICLES
67-08 M17-74422
PRECISE, CONTINUOUS AND RAPID MEASUREMENTS OF DYNAMIC ELASTIC CONSTANTS AND INTERNAL FRICTION BY THE VIBRATOR-CONTROLLED OSCILLATOR SYSTEM
67-08 M17-74436
TENSILE DEFORMATION IN IRON SINGLE CRYSTAL PLATES OBSERVED BY THE DIVERGENT X-RAY METHOD
67-08 M17-74603
ANELASTIC TECHNIQUES--IRON, A CASE HISTORY
67-08 M17-74697
TWINNING STRESS IN PRESTRAINED IRON SINGLE CRYSTALS
67-08 M17-75052
APPARATUS FOR TENSILE TESTS ON MICROFIBER SPECIMENS FROM 4 TO 330 K 67-08 M17-75650
TORSIONAL DUCTILITY AND STRENGTH OF IRON-CARBON ALLOYS AT ELEVATED TEMPERATURE
67-08 M17-75975
EFFECT OF MULTIPLE DEFORMATIONS ON THE RESISTANCE OF LOW-CARBON STEEL TO CYCLIC STRESSES
67-08 M17-76005
INFLUENCE OF LITHIUM ON MECHANICAL PROPERTIES OF ARMCO IRON 67-09 M17-76427
THE EFFECT OF HYDROSTATIC PRESSURE ON YIELDING IN IRON 67-09 M17-76760
EFFECT OF STRAIN-AMPLITUDE AND EXTERNAL MAGNETIC FIELD ON THE ROOM-TEMPERATURE INTERNAL FRICTION IN POLYCRYSTALLINE PURE IRON 67-09 M17-77259
MECHANICAL PROPERTIES AND CLEAVAGE FRACTURE OF IRON SINGLE CRYSTALS AT 77 K 67-09 M17-77597
THE COLD-WORK DAMPING PEAK IN ALPHA-IRON
67-09 M17-77930
A NEW METHOD OF DETERMINING EFFECTIVE FLOW STRESS IN PURE IRON AND SOME IRON ALLOYS
67-09 M17-77939
EFFECT OF STRAIN RATE ON THE DEFORMATION BEHAVIOR OF IRON AND STEEL AT LOW TEMPERATURES
67-09 M17-78214
STRAIN-RATE AND TEMPERATURE DEPENDENCE OF THE FLOW STRESS OF IRON AND STEEL AT LOW TEMPERATURES
67-09 M17-78215
DUCTILE-BRITTLE TRANSITION IN IRON FREE FROM INTERSTITIALS 67-09 M17-78292
SECOND-ORDER RESIDUAL STRESSES IN ARMCO IRON DEFORMED IN AN ULTRASONIC FIELD
67-10 M17-78804
EFFECTS OF ULTRASONIC VIBRATIONS ON TECHNICAL PURITY IRON 67-10 M17-78981
INVESTIGATION OF THE INFLUENCE OF NONCORROSIVE FLUIDS ON THE MECHANICAL PROPERTIES OF METALS IN STATIC AND DYNAMIC LOADING 67-10 M17-79484
STUDY OF THE CHARACTERISTICS OF STEEL DURING DEFORMATION AT HIGH RATES 67-10 M17-79741
FATIGUE CRACKING OF IRON AFTER ELECTROPLATING
67-10 M17-79767
MECHANICAL PROPERTIES OF HIGHLY PURE FE ELECTROLYTICALLY CHARGED BY H2
67-10 M17-79871
APPEARANCE OF SUBMICROCRACKS IN ARMCO IRON UNDER STATIC TENSION DURING HYDROGENATION
67-11 M17-80597
THE EFFECT OF NICKEL ON THE LOW-TEMPERATURE BRITTLENESS OF IRON AND STEELS
67-11 M17-80948
EFFECT OF IMPURITIES AND ALLOYING ELEMENTS ON THE SUSCEPTIBILITY OF HIGH-PURITY IRON TO BRITTLE FRACTURE 67-11 M17-80965
DISLOCATION MOBILITY AND FRACTURE RESISTANCE OF IRON 67-11 M17-81165
EFFECTS ON THE COLD-BRITTLENESS OF STEEL OF WORKING UNDER CONDITIONS OF FATIGUE 67-11 M17-81581
EFFECT OF MAGNETIC IMPULSE DEFORMATION ON THE MECHANICAL PROPERTIES OF NICKEL, IRON AND COPPER
67-11 M17-81662
MICROSTRUCTURAL FEATURES OF FATIGUE FRACTURE OF COMMERCIAL IRON IN THE DYNAMIC STRAIN AGING TEMPERATURE RANGE 67-12 M13-82338
INFLUENCE OF DEFORMATION ON GRAIN BOUNDARY ATTACK AND THE INITIAL GRAIN BOUNDARY MIGRATION TEMPERATURE 67-12 M13-83496
THE EFFECT OF GRAIN SIZE ON THE CREEP STRENGTH OF ARMCO IRON MICROSPECIMENS 67-12 M17-82188
THE RANGE OF RATIONAL APPLICATION OF POLYMERS AS ANTIFRICTION MATERIALS AND THE MECHANISM OF THEIR SELF-LUBRICATING ACTION
67-12 M17-82194
VARIATION OF INTERNAL FRICTION WITH THE EXTENT OF DEFORMATION IN MONOCRYSTALLINE AND POLYCRYSTALLINE IRON 67-12 M17-82235
RESIDUAL DEFORMATION AND HARDENING DURING EXPLOSIVE TREATMENT OF METALS 67-12 M17-82348
THE MECHANISM OF HIGH TEMPERATURE STEADY STATE CREEP OF METALS AND ALLOYS 67-12 M17-82416
THE EFFECT OF TEST TEMPERATURE AND STRAIN RATE UPON THE MECHANICAL PROPERTIES OF IRON CONTAINING HYDROGEN ABSORBED FROM ATMOSPHERIC AIR
67-12 M17-82428
THE ROLE OF IMPURITIES IN REACTIONS BETWEEN LIQUID ALLOYS AND SOLID METALS UNDERGOING DEFORMATION
67-12 M17-82436
COMPARISON OF FATIGUE PROPERTIES OF SINGLE CRYSTALS AND POLYCRYSTALS 67-12 M17-82542
SURFACE LAYER EFFECTS ON THE PLASTIC DEFORMATION OF IRON AND MOLYBDENUM 67-12 M17-82573
ULTRASONIC EXTINCTION IN MONO- AND POLYCRYSTALLINE FE IN THE PULSE-ECHO PROCESS 67-12 M17-82667
THE EFFECT OF PRESSURE ON FATIGUE
67-12 M17-83487
RESEARCH ON THE APPEARANCE AND DEVELOPMENT OF EXTRUSIONS AND INTRUSIONS IN IRON AND COPPER
67-12 M17-83514

IRON, MELTING
THERMOCHEMICAL MODEL OF A BASIC HOT-BLAST CUPOLA
67-01 M04-57903
METHOD FOR MELTING TECHNICALLY PURE IRON
67-02 M04-60097
APPLICATION OF LEVITATION MELTING FOR PHYSICOCHEMICAL STUDY 67-02 M14-61745
STUDY OF SLAG-METAL EQUILIBRIA BY LEVITATION MELTING.. APPLICATION TO THE FE-MN-O SYSTEM
67-04 M14-66984
THE MECHANISM OF FORMATION OF OXIDE INCLUSIONS AT THE ADDITION OF DEOXIDIZER 67-08 M04-75769
EVALUATION OF CAST IRON MELTING IN THE CUPOLA, ARC FURNACE AND INDUCTION FURNACE
67-08 M06-75748
DEOXIDATION STUDIES ON ARMCO IRON IN A MULTICHAMBER ELECTRON BEAM FURNACE 67-11 M04-80204

IRON, METAL POWDERS
EFFECT OF THE DURATION OF GRINDING ON THE ELECTROMAGNETIC PROPERTIES OF CARBONYL IRON POWDERS 67-02 M02-62103
PRODUCTION OF CERMET MACHINE PARTS AT THE MOSCOW POWDER METALLURGY PLANT 67-02 M09-61796
STUDY OF THE PRESSIBILITY OF METAL POWDERS OF DIFFERENT DISPERSITY 67-02 M09-62119
CONDITIONS OF PREPARATION OF CHROMIZED IRON POWDER BY THE METHOD OF DIFFUSIONAL SATURATION FROM SOLID CHROMIUM-CONTAINING PACKING MATERIALS. PT. 1 67-02 M09-62120
THE DETERMINATION OF RETAINED AUSTENITE BY X-RAY DIFFRACTION 67-04 M19-66294

IRON, METAL WORKING
THE DEFORMATION OF SHEET METAL THROUGH UNDERWATER SPARK DISCHARGES 67-04 M08-67060

IRON, METALLOGRAPHY
SOME CRYSTALLOGRAPHICAL APPLICATIONS OF THE GONIOMICROSCOPE 67-02 M13-60264
NEW METHOD OF ELECTROLYTIC ATTACK USEFUL FOR OBSERVATION OF THE STRUCTURE AND SUBSTRUCTURE OF IRON 67-06 M13-70252

IRON, MICROSCOPY
HOT STAGE MICROSCOPE STUDY OF STRUCTURAL EVOLUTION OF SINTERS OF CARBONYL IRON DURING HEAT TREATMENT 67-01 M14-57170
METALLOGRAPHIC INVESTIGATIONS WITH THE EMISSION ELECTRON MICROSCOPE 67-03 M13-65902
METALLURGICAL INVESTIGATIONS WITH A 500 KV ELECTRON MICROSCOPE 67-06 M14-71545

IRON, MICROSTRUCTURE
ON THE DISCUSSION OF THE ROLLING TEXTURE OF IRON
67-01 M13-57294
DETERMINATION OF NONMETALLIC INCLUSIONS IN IRON-BASE ALLOYS 67-02 M04-59578
GRAIN-BOUNDARY SLIDING IN METALS
67-02 M13-61780
EFFECT OF ANNEALING ON THE STRUCTURE OF VACUUM METAL CONDENSATES 67-02 M13-61926
THE ANNEALING BEHAVIOR OF HIGH PURITY IRON
67-02 M14-60607
QUALITATIVE STUDY OF THE ORIENTATION OF ROLLED IRON
67-03 M13-65781

EVOLUTION AFTER ANNEALING OF HIGH PURITY IRON COLD-WORKED BY EXTENSION 67-03 M14-65551
RECRYSTALLIZATION DUE TO PLASTIC DEFORMATION IN HOT WORKING 67-03 M14-65556
INFLUENCE OF THE ORIENTATION ON THE RECRYSTALLIZATION OF IRON SINGLE CRYSTALS DEFORMED BY UNIDIRECTIONAL ROLLING 67-03 M14-65558
DIRECT OBSERVATION OF STRESS ASSOCIATED WITH NITRIDIC PRECIPITATION IN IRON 67-04 M14-67021
EXPLOSION STRENGTHENING OF ARMCO IRON 67-04 M17-67646
DESCRIPTION OF A NEW TECHNIQUE FOR THE PREPARATION OF THIN METALLIC FILMS. APPLICATION FOR THE EXAMINATION OF GRAIN ORIENTATION SEAMS BY TRANSMISSION ELECTRON MICROSCOPY 67-05 M13-69134
ON THE SUBSTRUCTURE OF PLASTICALLY STRAINED METALS WITH A BODY-CENTERED LATTICE 67-05 M13-69652
ON THE MECHANISM OF STRENGTHENING DURING REPEATED STRAIN AGING 67-05 M14-69653
HIGH-TEMPERATURE MICROPROFILE APPEARING ON THE SURFACE OF IRON SPECIMENS DURING FATIGUE LOADING 67-05 M17-69656
INFLUENCE OF ULTRASONIC VIBRATIONS ON MICROSTRUCTURE OF ARMCO IRON 67-06 M13-70059
A FIELD-ION MICROSCOPE STUDY OF GRAIN BOUNDARIES IN IRON 67-06 M13-70421
THE FORMATION OF THE ROLLING TEXTURE OF BODY-CENTERED CUBIC METALS AND ALLOYS 67-06 M13-71657
STUDY OF THE FORMATION OF WIDMANSTATTEN STRUCTURE IN IRON 67-06 M14-69978
GRAIN BOUNDARY SEGREGATION AND THE COLD-WORK PEAK IN IRON CONTAINING CARBON OR NITROGEN 67-06 M14-71603
STRUCTURE FORMATION OF CARBONYL IRON POWDER 67-07 M13-73292
BURGERS VECTORS OF DISLOCATIONS IN DEFORMED IRON AND IRON ALLOYS 67-07 M14-73500
CONSIDERATIONS ON THE NATURE OF THE MICROPARTICLES IN MILD STEEL WELD METAL 67-09 M13-76361
VIBRATING GRINDING AND VIBRATORY POLISHING OF STEEL IN METALLOGRAPHY. PT. 1 67-09 M13-77795
STUDY OF INTERGRANULAR CAVITATION IN IRON BY ELECTRON MICROSCOPY OF FRACTURE SURFACES 67-09 M13-77933
EFFECT OF ULTRASONIC VIBRATIONS ON THE MICROSTRUCTURE OF ARMCO IRON 67-10 M13-78805
CHANGES IN THE FINE STRUCTURE OF ALPHA-IRON DURING ELECTRON MICROSCOPE ITS DEFORMATION INVESTIGATED UNDER THE 67-10 M13-78949
FURTHER CONTRIBUTIONS TO THE KNOWLEDGE OF THE RECRYSTALLIZATION OF COLD ROLLED IRON. THE TEXTURE OF IRON AS ROLLED AND ITS CHANGES DURING RELAXATION AND RECRYSTALLIZATION 67-10 M13-79068
DEFORMATIONS DURING THE INTERACTION OF TWINS AND MARTENSITIC PLATES WITH BARRIERS 67-10 M13-79236
METALLOGRAPHIC REAGENTS FOR THE DETERMINATION OF CHEMICAL AND PHYSICAL HETEROGENITY IN THE MICROSTRUCTURE OF IRON AND STEELS 67-11 M13-80704
THE BEHAVIOR OF RECRYSTALLIZATION OF PURE IRON AFTER HIGH-SPEED DEFORMATION 67-11 M14-80946
ULTRASONIC HEATING OF METALS 67-12 M13-82150
OBSERVATION OF POLYGONIZATION AND TWO MECHANISMS OF RECRYSTALLIZATION DURING ANNEALING OF IRON OF ELECTROLYTIC PURITY PREVIOUSLY WORK HARDENED BY COMPRESSION 67-12 M14-82284
RECOVERY AND RECRYSTALLIZATION BY JOINT MIGRATION OR NUCLEATION IN ELECTROLYTIC IRON, AS STUDIED BY INTERRUPTED COMPRESSION TESTS 67-12 M14-82508

IRON, MOSSBAUER EFFECT
MOSSBAUER SPECTRA IN CRYSTALS CONTAINING DEFECTS 67-05 M16-69639

IRON, NONDESTRUCTIVE TESTING
THE INSPECTION OF THIS SHEET BY MEANS OF 22 TO 37 KV X-RAYS AND SCINTILLATION COUNTERS 67-01 M19-58345
INDUCTIVE METHOD FOR THE CONTROL OF POWDER COMPOSITE PRODUCTS 67-08 M19-74919

IRON, OPTICAL PROPERTIES
OPTICAL PROPERTIES OF IRON IN THE VISIBLE AND CLOSE INFRARED REGION OF THE SPECTRUM 67-06 M15-72362
EXPERIMENTAL DETERMINATION OF THE OPTICAL DENSITY OF STATES IN IRON 67-09 M16-77689

IRON, OXIDATION
STRUCTURAL FEATURES OF THE HAEMATITE OF IRON SCALE RELATED TO THE CONDITIONS UNDER WHICH IT WAS FORMED 67-02 M13-61924
THE EPITAXIAL RELATIONSHIPS OF NUCLEI OF FE2SIO4, FORMED AT THE SITES ON IRON 67-02 M14-62251
OXIDATION OF THIN FILMS OF IRON 67-08 M18-76227
THE OXIDATION OF FE AND LOW-ALLOYED HEAT RESISTANT STEELS IN CO ATMOSPHERES AT 500 AND 550 C 67-11 M18-80353

IRON, PHASE TRANSFORMATIONS
THEORETICAL ANALYSIS OF THE EFFECT OF HIGH PRESSURE ON PHASE TRANSFORMATIONS IN PURE METALS 67-02 M14-59918
NUCLEATION SITES OF THE ALPHA PHASE GAS IN THE PHASE DURING CEMENTATION OF IRON BY CHROMIUM 67-02 M14-60554
DIMENSIONAL CHANGES IN THE ALPHA-GAMMA TRANSFORMATION OF IRON 67-04 M15-67413
INFLUENCE OF IMPURITIES AND ALLOYING ADDITIONS ON BRITTLE FRACTURE OF HIGH PURITY IRON 67-04 M17-66363
THE PHASE TRANSITION DUE TO SHOCK COMPRESSION IN IRON 67-05 M14-68843
THEORETICAL ANALYSIS OF THE EFFECT OF HIGH PRESSURE ON PHASE TRANSFORMATIONS IN PURE METALS 67-07 M14-72573
OBSERVATION OF ALPHA/GAMMA TRANSFORMATION ON PURE IRON SURFACES IN THE ELECTRON MICROSCOPE 67-09 M14-76466
INVESTIGATIONS ON THE DEFORMATION AGE HARDENING OF NITROGEN CONTAINING PURE IRON BY MEASURING THE DAMPING CAPACITY AND STRENGTH 67-09 M14-77350
THE TEMPERATURE OF DISPLACEMENT GAMMA-TO-ALPHA TRANSFORMATION IN IRON 67-11 M13-80741
EFFECTS OF PRESSURE ON THE STRUCTURE OF IRON-CARBON MARTENSITES 67-11 M13-81593

IRON, PHASES /STATE OF MATTER/
FORMATION OF GAMMA PHASE IN QUENCHED IRON AND ALLOYED FERRITE 67-02 M14-61220
SHRINKAGE PRESSURE IN CASTINGS--THE SOLIDIFICATION OF A METAL SPHERE 67-06 M14-69925
A DEVICE FOR INVESTIGATING THE ISOTHERMAL DECOMPOSITION OF THE AUSTENITE IN IRON 67-06 M14-70195
THE SOLUBILITY OF CEMENTITE PRECIPITATES IN ALPHA IRON 67-09 M14-77724
EQUILIBRIUM BETWEEN IRON MELTS AND SLAGS OF THE SYSTEM FEON-CAO-P2O5-MGO AT 1600 C 67-12 M04-83393

IRON, PHYSICAL PROPERTIES
RELATIONSHIP BETWEEN HYDROGEN UPTAKE AND THE POROSITY OF IRON 67-01 M15-58338
THE INFLUENCE OF THERMAL AND MECHANICAL EFFECTS ON THE AMPLITUDE DEPENDENCE OF INTERNAL FRICTION OF IRON AND ITS ALLOYS 67-04 M15-66854
FEATURES OF THE TEMPERATURE RELATIONSHIP OF INTERNAL FRICTION IN HARDENED IRON AND ALLOY STEEL 67-04 M15-66865
EFFECT OF CARBON, SILICON, PHOSPHORUS AND NICKEL ON THE SOLUBILITY OF HYDROGEN IN LIQUID IRON 67-04 M15-67181
AMPLITUDE DEPENDENCE OF THE INTERNAL FRICTION OF IRON 67-04 M17-66843
OXYGEN PRESSURE IN LIQUID IRON. PT. 6. STUDY OF OXYGEN CONCENTRATION CELLS AT HIGH TEMPERATURE 67-06 M15-72269
CRYSTALLIZATION OF METALS FROM SUPERCOOLED STATE 67-08 M15-75888
THE DEVELOPMENT OF A RHEOLOGICAL TEST INSTALLATION FOR DETERMINATION OF THE VISCOSITY OF METALLIC MELTS AND MEASUREMENT OF LIQUID FE, CO AND NI 67-10 M15-78341
SOLUBILITY OF HYDROGEN IN LIQUID IRON AND IN SOME LIQUID BINARY IRON ALLOYS 67-11 M14-80943
PERMEATION OF HYDROGEN AND DEUTERIUM IN ALPHA IRON 67-12 M15-82876

IRON, PLATING
ELECTROLESS NICKEL PLATING OF IRON METAL POWDERS 67-04 M09-66252
INCREASE IN STRENGTH OF POWDERED-METAL ALLOYS BY MEANS OF COPPER PLATING IRON POWDER 67-08 M09-75446

ELECTRCLESS NICKEL PLATING OF IRON POWDERS
67-10 M09-78984
IRON, POWDER METALLURGY
SINTERED METAL FRICTION MATERIALS
67-01 M09-58366
IRON POWDER WITH LOW C2 CONTENT FOR STRUCTURAL P/M PARTS. PT. 1. DATA FOR COMPONENT DESIGNERS
67-02 M09-59035
ANALYTICAL DETERMINATION OF SPECIFIC PRESSURE DURING ROLLING OF METAL POWDERS
67-02 M09-59602
EFFECT OF THE CERMET GEOMETRICAL FACTOR ON THE VALUE OF ELASTIC AFTERACTION 67-02 M09-59603
INCREASING THE COMPACTING RATE OF MOISTENED METAL POWDERS 67-02 M09-59604
INFLUENCE OF NI, CO AND MN ADDITIONS ON ACTIVATION OF SINTERING OF IRON POWDERS. PT. 2
67-02 M09-59606
MANUFACTURING OF IRON POWDER BY DIRECT REDUCTION WITH NATURAL GAS 67-02 M09-59611
INVESTIGATION OF VALUE OF LATERAL PRESSURE COEFFICIENT DURING PRESSING OF IRON POWDERS
67-02 M09-60174
EFFECT OF NICKEL, COBALT AND MANGANESE ACTIVATORS ON ACTIVATION OF CERMET IRON SINTERING. PT. 1
67-02 M09-60176
TRENDS IN THE DEVELOPMENT OF SINTERED MATERIALS
67-02 M09-60205
IRON POWDER WITH LOW O2 CONTENT FOR STRUCTURAL P/M PARTS, PT. 2. DATA FOR P/M PARTS FABRICATORS
67-02 M09-61090
SOME PROCESSES OCCURRING DURING HEAT TREATMENT OF POWDER MATERIALS 67-02 M09-61637
DIFFUSION CHROMIZING OF IRON POWDERS IN SOLID POWDER MIXTURE. PT. 2 67-02 M09-61702
CORRELATION BETWEEN ELECTROMAGNETIC AND PHYSICOCHEMICAL PROPERTIES OF POWDERED CARBONYL IRON 67-02 M09-61706
DEPENDENCE OF COMPACTION PRESSURE ON THE RATIO OF THE COMPACTING SURFACE AREA AND THE AREA OF THE FRICTION SURFACE BETWEEN THE POWDER AND THE DIE WALLS 67-02 M09-61782
PRODUCTION OF IRON POWDER FROM ALLOY STEEL SCALE BY REDUCTION WITH CONVERTED NATURAL GAS
67-02 M09-62201
MACHINE ELEMENTS OF SINTERED MATERIAL
67-04 M09-66188
FACTORS AFFECTING THE COMPACTION OF IRON POWDER AND ITS MECHANICAL PROPERTIES 67-04 M09-66958
STUDY OF SPECIFIC PRESSURE DURING METAL POWDER ROLLING 67-04 M09-67334
REGULARITIES OF STRUCTURE FORMATION DURING THE SINTERING OF IRON-GRAPHITE COMPOSITIONS
67-04 M09-67337
THE FATIGUE STRENGTH OF SINTERED MATERIALS
67-04 M17-66557
OXYGEN CONTENT IN SINTERING METAL POWDERS--AN EXPERIMENTAL STUDY 67-05 M09-68394
INVESTIGATION OF CARBONIZATION PROCESSES DURING GRAPHITIC IRON SINTERING 67-05 M09-68702
RELATIONS BETWEEN PORE STRUCTURE AND DENSIFICATION MECHANISM IN THE COMPACTING OF IRON POWDERS. PT. 2. THEORETICAL CONSIDERATIONS ABOUT THE CHANGE OF PORE SIZE DISTRIBUTION IN COMPACTING
67-05 M09-68946
HOW EXTERNAL FRICTION AFFECTS METAL POWDER COMPACTION 67-05 M09-69304
TIN ADDITIONS TO AID THE SINTERING OF IRON POWDER
67-06 M09-70884
CONTRIBUTION TO THE STUDY OF GRAIN ORIENTATION IN COLUMNS OF POWDER AND SINTERED PARTS UNDER THE EFFECT OF INTERMEDIATE LAYERS
67-06 M09-71754
CALCULATION OF TERMINAL FEED ANGLE DURING VERTICAL ROLLING OF POWDERS 67-06 M09-72318
COMBINED REDUCTION OF IRON SCALE IN VERTICAL, CONTINUOUS-TYPE MUFFLE FURNACE
67-07 M09-72501
SOME PROBLEMS IN THE MANUFACTURE OF FRICTION MATERIALS ON AN IRON POWDER BASE
67-07 M09-72507
SINTERING OF METAL POWDER PARTS PRODUCED BY EXPLOSIVE COMPACTION 67-07 M09-73269
COMPACTING PROPERTIES OF POWDER MIXTURES
67-07 M09-73272
HYDROSTATIC PRESSING OF POWDERS
67-07 M09-73861
POWDER METALLURGY PARTS IN AUTOMOBILE MANUFACTURING
67-08 M09-74318
TIN ADDITIONS TO AID THE SINTERING OF IRON POWDER
67-08 M09-74671
MANUFACTURE OF BRIQUETTES FROM IRON AND STEEL POWDERS BY THE HYDRODYNAMIC COMPACTING METHOD
67-08 M09-74906
DESIGN FOR POWDER METALLURGY 67-08 M09-75611
CONDITIONS OF PREPARATION OF CHROMIZED IRON POWDER BY THE METHOD OF DIFFUSIONAL IMPREGNATION FROM SOLID CHROMIUM-CONTAINING PACKING MATERIALS. PT. 2 67-08 M09-75847
APPLICATION OF DYNAMIC HOT PRESSING IN POWDER METALLURGY 67-08 M09-75849
RELATIONSHIP BETWEEN THE ELECTROMAGNETIC AND PHYSICOCHEMICAL PROPERTIES OF CARBONYL IRON POWDER 67-08 M09-75851
PREPARATION OF FINE METAL PARTICLES BY MEANS OF EVAPORATION IN HELIUM GAS 67-08 M09-75933
EFFECT OF THE STRESS CONDITION PRODUCED IN THE EXTRUSION VOLUME ON THE SHRINKAGE DURING SINTERING. PT. 1. EFFECT OF HEATING AND COOLING RATES ON SHRINKAGE OF SPECIMENS DURING SINTERING
67-09 M09-76567
SOFT MAGNETIC MATERIALS OBTAINED BY ROLLING METAL POWDERS 67-09 M09-76569
DETERMINATION OF THE LATERAL PRESSURE COEFFICIENT IN THE COMPACTION OF IRON POWDERS
67-09 M09-76907
ACTIVATION OF THE SINTERING OF IRON POWDER BY NICKEL, COBALT, AND MANGANESE ADDITIONS. PT. 1
67-09 M09-76909
INFLUENCE OF THE GEOMETRICAL FACTOR OF SINTERED PARTS ON THE MAGNITUDE OF THEIR ELASTIC AFTER-EFFECT 67-09 M09-76921
EXTENDING THE POWDER ROLLING VELOCITY RANGE BY POWDER WETTING 67-09 M09-76922
ACTIVATION OF THE SINTERING OF IRON POWDER BY NICKEL, COBALT, AND MANGANESE ADDITIONS. PT. 2
67-09 M09-76924
OBTAINING IRON POWDER BY DIRECT REDUCTION WITH NATURAL GAS 67-09 M09-76932
SINTERING PROCESSES IN METAL-GLASS MATERIALS. PT. 1. INFLUENCE OF SINTERING TEMPERATURE ON SHRINKAGE PROCESSES 67-10 M09-78986
SOME PROBLEMS IN THE MANUFACTURE OF SINTERED IRON-BASE FRICTION MATERIALS 67-11 M09-80893
THE PRODUCTION OF NONMETALLIC AND METALLIC PROTECTIVE SURFACE LAYERS ON SINTERED IRON
67-11 M18-80341
ELASTIC DEFORMATION OF ROLLS IN METAL POWDER ROLLING 67-12 M09-82206
MATERIALS REINFORCED WITH METALLIC FIBERS
67-12 M09-82210
CARBURIZATION PROCESSES DURING THE SINTERING OF IRON-GRAPHITE MATERIALS 67-12 M09-82678
EFFECT OF HEAT TREATING CONDITIONS ON THE PROPERTIES OF SINTERED IRON MATERIALS. PT. 1. THE EFFECT OF HARDENING AND CASE-HARDENING TEMPERATURES ON SOME PROPERTIES OF VARIOUS SINTERED IRON MATERIALS 67-12 M09-82840
X-RAY INVESTIGATION OF DIFFUSION DURING SINTERING OF NI-CR AND FE-CR COMPACTS 67-12 M09-83555
SOME PROPERTIES OF IRON POWDER PARTS, ALLOYED WITH 6 PER CENT CR 67-12 M09-83556
DEFORMATION EFFECTS ON THE CHANGING PROPERTIES OF POROUS MATERIALS 67-12 M09-83562
PRODUCTION SCALE TECHNOLOGY FOR IRON POWDER AT THE BROVARSK FACTORY 67-12 M09-83563
IRON, POWDER METALLURGY PARTS
EXPERIENCE IN MANUFACTURING FRICTION SINTERED ALLOYS WITH AN IRON BASE 67-02 M09-62131
THE BULK ELECTROPLATING OF SMALL PRODUCTS OF FERROUS POWDER METALLURGY 67-02 M12-60031
THE MECHANISM OF DEFORMATION AND RUPTURE OF POROUS IRON 67-02 M17-62128
IRON, QUATERNARY SYSTEMS
STRUCTURAL DIAGRAMS OF THE QUATERNARY 18 PER CENT CR-FE-C-N SYSTEM 67-02 M13-59983
ON THE STRUCTURE OF URANIUM-MANGANESE-ALUMINUM-IRON ALLOYS WITH CONSTANT URANIUM CONTENT OF 50 AT. PER CENT 67-02 M13-60119
THE QUATERNARY SYSTEM, U-UMN2-UAL2-UFE2
67-02 M13-60877
STUDY OF PHASE EQUILIBRIUM IN A PORTION OF THE TI-AL-CR-FE-SI-B SYSTEM 67-09 M13-77298
AN INVESTIGATION OF THE LIQUID MISCIBILITY GAPS IN THE LEAD-COPPER-IRON-ARSENIC SYSTEM
67-11 M15-81338
IRON, REACTIONS /CHEMICAL/
NITROGEN ABSORPTION IN GAMMA IRON AND IRON-

LANTHANUM ALLOYS 67-01 M14-58558
MEASUREMENTS OF OXIDATION-REDUCTION RATE OF IRON AND OF OXYGEN PRESSURE IN OXIDE MELTS 67-02 M04-59152
ON THE FORMATION OF INCLUSIONS DURING DEOXIDIZATION OF LIQUID IRON BY ALUMINIUM 67-02 M04-59749
A KINETIC STUDY ON THE REACTION OF THE ALUMINA CRUCIBLE WITH CARBON DISSOLVED IN MOLTEN IRON 67-02 M14-60144
ON THE FORMATION KINETICS OF CONTINUAL LAYERS OF FERROUS OXIDE AT HIGH TEMPERATURES AND UNDER LOW-OXYGEN PRESSURE 67-02 M14-60824
THE INTRODUCTION OF HYDROGEN INTO IRON 67-02 M14-62250
THE MECHANISM OF IRON OXIDATION 67-02 M18-59940
INFLUENCE OF CARBURIZING AND CHROMIZING ON INTERACTION BETWEEN IRON AND LIQUID ZN 67-02 M18-61992
THE INFLUENCE OF WATER VAPOR AND CARBON DIOXIDE ON THE OXIDATION OF IRON AND IRON ALLOYS AT HIGH TEMPERATURES 67-02 M18-62010
THE SOLUBILITY OF NITROGEN IN MULTICOMPONENT LIQUID IRON ALLOYS 67-03 M14-65081
KINETICS OF NITROGEN TRANSFER THROUGH AN IRON SURFACE 67-03 M14-65425
PHYSICO-CHEMICAL INVESTIGATIONS ON STEELMAKING PROCESSES IN JAPAN 67-04 M04-67543
THERMOCHEMISTRY OF METAL-REFRACTORY INTERACTIONS 67-04 M15-66129
INFLUENCE OF HYDROGEN, HIGH TEMPERATURE AND HIGH PRESSURE ON MECHANICAL PROPERTIES OF METALS 67-04 M17-66345
A SIMPLE DEVICE TO ACCELERATE METALLURGICAL REACTIONS 67-05 M04-68598
FORMATION OF HOLLOW WHISKERS FROM METALS BY REACTION WITH FERICYANIDE AND FERROCYANIDE 67-05 M14-69427
CERAMIC THERMOCHEMISTRY 67-05 M15-69139
REACTION OF IRON AND SELENIUM IN THE 400 TO 1400 C. RANGE 67-06 M04-71377
INVESTIGATIONS INTO THE MECHANISM OF THE REACTIONS OF SULPHUR AND MANGANESE IN CARBON-SATURATED IRON UNDER A CAO-SIO2-AL2O3 SLAG 67-06 M14-70255
SOME OBSERVATIONS ON SULFURIZED LAYERS ON IRON 67-06 M14-72296
DIRECT ELECTROCHEMICAL DETERMINATION OF THE OXYGEN CONCENTRATION IN LIQUID IRON. PT. 2. EFFECT OF PHOSPHORUS, SULFUR AND CARBON ON THE ACTIVITY OF THE OXYGEN DISSOLVED IN LIQUID IRON 67-07 M04-72719
THE OXIDATION MECHANISM OF IRON 67-07 M18-72595
KINETICS AND MECHANISM OF THE ELECTRODE REACTIONS ON IRON IN NITRATE SOLUTIONS 67-08 M14-74789
THERMODYNAMIC-KINETIC DATA ON THE RATE OF ELECTRODE REACTIONS ON THE IRON/ACID SOLUTION SYSTEM 67-08 M14-75064
THE EFFECT OF ADDITIONS OF MANGANESE, VANADIUM AND CHROMIUM ON THE ACTIVITY OF OXYGEN IN MOLTEN IRON 67-08 M14-76051
REACTION OF AN IRON-CARBON DROPLET DURING FREE FALL THROUGH OXYGEN 67-10 M14-79765
EFFECT OF CEMENTATION AND SUBSEQUENT DIFFUSION CHROMIZING ON THE INTERACTION OF IRON AND LIQUID ZINC 67-10 M18-78849
MEASUREMENT OF OXYGEN PRESSURE IN LIQUID IRON BY THE OXYGEN CONCENTRATION CELLS WITH THE SOLID ELECTROLYTE, ZRO2.CAO 67-10 M19-79992
A KINETIC STUDY OF COPPER PRECIPITATION ON IRON. PT. 2 67-12 M14-82734

IRON, RECOVERING
CHANGES IN ELECTRICAL CONDUCTIVITY OF COPPER SMELTER SLAGS DURING THEIR PROCESSING 67-10 M15-79128

IRON, RECOVERY
REDUCTION ELECTROMELTING OF CONVERTER SLAGS FROM NICKEL PRODUCTION 67-02 M02-60562

IRON, RECRYSTALLIZATION /METALLURGICAL/
PARAMETERS OF THE GROWTH KINETICS OF RECRYSTALLIZATION NUCLEI IN ZONE-REFINED IRON AND NICKEL 67-04 M14-66039
PARAMETERS OF GROWTH KINETICS OF RECRYSTALLIZATION NUCLEI IN IRON AND NICKEL REFINED BY ZONE MELTING 67-10 M14-79669

IRON, REDUCTION /CHEMICAL/
REDUCTION OF OXYGEN ON IRON AND IONIZATION OF IRON IN THE PRESENCE OF DISSOLVED OXYGEN 67-11 M14-81276

IRON, REFINING
THE PRODUCTION OF PURE IRON AND FERROUS ALLOYS 67-01 M04-57380
SEPARATION RATE OF PRIMARY INCLUSION IN AGITATED STEEL BATH 67-01 M04-58562
NEW METHOD OF PURIFYING IRON BY ELECTROTRANSPORT IN FERROUS OXIDE 67-02 M04-58924
THEORETICAL CALCULATION OF EQUILIBRIUM OF OXYGEN ELEMENT-DEOXIDANT IN LIQUID IRON ALLOYS ON THE BASIS OF CRITICAL CONCENTRATIONS 67-02 M04-60052
ELECTROLYSIS OF DUMP SLAGS FROM COPPER SMELTING 67-03 M03-65576
APPARENT ACTIVATION ENERGY OF DECARBONISATION OF FE-C MELTS 67-04 M14-66308
DETERMINATION OF THE OPTIMAL CONDITIONS OF A METALLURGICAL PROCESS ELUCIDATED BY THE EXAMPLE OF CHROMIUM REMOVAL FROM IRON MELTS CONTAINING CARBON 67-06 M04-71747
THE KINETICS OF NITROGEN REMOVAL FROM IRON-NITROGEN ALLOYS BY MEANS OF HYDROGEN 67-06 M04-71751
THE DEOXIDATION OF LIQUID IRON WITH TITANIUM 67-06 M04-72213
PERFORMANCE OF MISCH METAL IN THE DEOXIDATION AND DESULFURIZATION OF PURE IRON. PT. 7. INVESTIGATIONS INTO PURE IRON 67-06 M04-72288
DEOXIDATION OF LIQUID IRON WITH CALCIUM SILICIDE. PT. 1. STUDY OF THE BEHAVIOR OF COMPLEX DEOXIDANTS 67-06 M04-72390
REMOVAL OF SILICON DURING CARBON ELIMINATION FROM LIQUID IRON USING STEAM-ARGON MIXTURES 67-06 M04-72391
METALLURGICAL TESTING OF HAWAIIAN FERRUGINOUS BAUXITES--CONCLUDING REPORT 67-07 M03-74000
CONTRIBUTION TO THE STUDY OF SIMULTANEOUS DECARBURIZATION AND REMOVAL OF NITROGEN FROM IRON MELTS 67-07 M04-72474
THE ELECTRON BEAM MELTING OF SOFT MAGNETIC FERROUS MATERIALS 67-08 M04-74444
EFFECT OF SLAG COMPOSITION ON THE TRANSFER RATE OF SULFUR AND SLAG VISCOSITY IN BLAST FURNACE 67-08 M04-75801
PRODUCTION OF METALLIC MANGANESE BY ELECTROLYSIS OF A HIGH-PHOSPHORUS MANGANESE ALLOY IN MOLTEN MEDIA 67-08 M13-74482
DEOXIDATION OF IRON MELTS BY ZIRCONIUM 67-09 M04-77188
THERMODYNAMIC DISTRIBUTION OF ELEMENTS WHEN KILLING IRON WITH SILICON 67-10 M04-79315
HOW ELECTROMAGNETIC FORCES HELP TO REMOVE NONMETALLIC INCLUSIONS FROM MOLTEN METALS 67-11 M03-81409
EMF ELIMINATION OF NONMETALLIC INCLUSIONS FROM MOLTEN IRON 67-11 M04-81011
STUDY OF THE DEHYDROGENATION OF ELECTROLYTIC IRON IN VACUUM 67-11 M14-80599
THE GROWTH AND THE DISTRIBUTION OF THE INCLUSIONS COMPOSED OF A LAYER-LIKE INCLUSIONS GROUP DURING THE DEOXIDATION OF LIQUID IRON WITH ALUMINUM 67-11 M14-80955

IRON, ROLLING
STUDY OF METAL FLOW IN THE SEAT OF DEFORMATION 67-08 M07-75011
STRESS ANALYSIS DURING ROLLING OF METAL POWDERS 67-08 M09-75425
MANUFACTURE OF EXTRA-THIN SHEET IRON AT THE ZAPOROZHSTAL WORKS 67-10 M07-79811

IRON, SINGLE CRYSTALS
SOME X-RAY OBSERVATIONS OF PLASTIC FLOW IN SINGLE CRYSTALS OF IRON 67-01 M17-57428
THE EFFECTS OF CRYSTALLOGRAPHIC ORIENTATION AND OXYGEN PRESSURE ON THE OXIDATION OF IRON 67-03 M14-65422
MECHANICAL PROPERTIES AND CLEAVAGE RUPTURE OF IRON SINGLE CRYSTALS AT 77 K 67-05 M17-69339
STRUCTURE AND MECHANISM OF FORMATION OF OXIDE FILMS ON FE SINGLE CRYSTALS BY NANO2 67-05 M18-69840
MECHANICAL PROPERTIES OF IRON SINGLE CRYSTALS WITH VARYING ORIENTATIONS AS A FUNCTION OF TEMPERATURE 67-12 M13-82596
MECHANICAL PROPERTIES AND CLEAVAGE FRACTURE OF IRON SINGLE CRYSTALS AT 77 K 67-12 M17-81746

IRON, SINGLE CRYSTALS
CONTRIBUTION TO THE STUDY OF ELASTOPLASTIC
CONTRIBUTION TO THE STUDY OF ELASTOPLASTIC BEHAVIOR OF MONOCRYSTALLINES. PT. 1

BEHAVIOR OF MONOCRYSTALLINES. PT. 1
67-12 M17-83577
IRON, SOLDERING
PROPERTIES OF CADMIUM-ZINC HIGH STRENGTH SOLDER ALLOY
67-06 M12-72150
THE MECHANISM OF SELF-FLUXING BRAZING ALLOYS
67-07 M11-73969
IRON, SOLUBILITY
INTERFACIAL SEGREGATION OF NITROGEN IN IRON
67-08 M14-75579
THE SOLUBILITY OF IRON IN MAGNESIUM
67-09 M13-77272
DETERMINING THE ABSOLUTE SOLUBILITY OF OXYGEN IN MOLTEN IRON, COBALT AND NICKEL
67-09 M14-77271
EQUIVALENT EFFECT OF ADDITION ELEMENTS ON
ALLOYS FE-N-XI AT 1600 C
SOLUBILITY, ACTIVITY, AND ACTIVITY COEFFICIENTS OF NITROGEN IN IRON-RICH MELTS. PT. 1. TERNARY
67-12 M15-83392
IRON, SPECIFICATIONS
TENSILE STRENGTHS OF THE DIFFERENT STANDARD GRADES OF GRAY IRON
67-06 M19-71731
IRON, STRAIN HARDENING
THE MECHANISM OF THE STRENGTHENING OF METALS DURING MECHANICAL-THERMAL TREATMENT
67-12 M17-82116
IRON, SURFACE HARDENING
STUDIES ON BORONIZATION OF STEEL SURFACES BY B4C-NAOCN
67-09 M10-78000
IRON, SURFACE PROPERTIES
EFFECT OF THE HARDNESS ON THE DAMAGES DUE TO ROLLING CONTACT OF BACK-UP ROLL MATERIALS
67-01 M17-57514
EFFECT OF RARE-EARTH METALS ON THE CRYSTALLIZATION OF STEEL
67-02 M15-59179
WEAR MEASUREMENTS ON COATINGS OF METALLIC SURFACES
67-02 M17-60511
THE SURFACE ENERGY OF IRON-3 PER CENT SILICON BY SURFACE-RELAXATION MEASUREMENTS
67-05 M14-68691
THE EFFECT OF SURFACE TREATMENT ON THE QUANTITY OF ELECTRONS ABSORBED BY THE SPECIMEN
67-07 M15-73730
NEW METHOD FOR THE DETECTION OF PORES ON IRON AND STEEL SURFACES
67-08 M19-75504
INFLUENCE OF RARE-EARTH METALS ON THE CRYSTALLIZATION OF STEEL
67-10 M15-78888
OBSERVATIONS OF THE EFFECT ON SURFACES OF EROSION AND CAVITATION
67-10 M18-78466
IRON, TERNARY SYSTEMS
PROBLEM OF THE STRUCTURE OF ALLOYS IN THE TI-FE AND TI-CR-FE SYSTEMS
67-01 M13-58188
A STUDY ON THE TERNARY ALLOYS OF IRON AND BORON
67-01 M14-58321
PERMANENT MAGNET CAPABLE OF COLD WORKING
67-01 M20-57518
CONSTITUTION DIAGRAM OF THE ZR-FE-B SYSTEM
67-02 M13-59889
PHASE EQUILIBRIA IN THE TERNARY SYSTEMS ZR-CO-C AND NB-FE-C
67-02 M13-61635
X-RAY INVESTIGATIONS IN A FEW T-T5-AL SYSTEMS
67-02 M13-61888
ISOTHERMAL SECTION OF THE FE-V-C TERNARY SYSTEM AT 500 C
67-02 M13-62275
THE NATURE OF INTERACTION BETWEEN COMPONENTS IN THE GAMMA AND GAMMA PRIME PHASE OF THE NI-AL, NI-AL-CR, NI-AL-CO AND NI-AL-FE SYSTEMS
67-02 M14-58983
EQUILIBRIUM OF METAL AND OXIDE SOLIDS IN THE FE-NI-O SYSTEM
67-04 M13-66968
THE URANIUM-IRON-SILICON SYSTEM. THE NEW PHASE U2FESI3
67-04 M13-67108
THE NATURE AND TYPE OF SULFUR SOLUTIONS IN FE-S-NI AND FE-S-CR SYSTEMS
67-04 M14-66655
THE TERNARY SYSTEM RE-FE-B
67-04 M16-66909
SOLID-PHASE EQUILIBRIA OF WUSTITE-IRON NICKEL ALLOY
67-05 M13-68227
STUDY OF ISOTHERMAL TRANSFORMATIONS IN SEMI-FERRITIC STAINLESS STEELS WITH 17 PER CENT CHROMIUM
67-05 M14-69114
NUCLEAR MAGNETIC RESONANCE AND SPECIFIC HEAT MEASUREMENTS OF TRANSITION METALS AND ALLOYS.. TI-V-FE AND ZR-NB-MO SYSTEMS
67-05 M16-69758
PHASE EQUILIBRIA IN CR-CO-B, MN-FE-B AND MN-CO-B SYSTEMS
67-06 M13-70215
INVESTIGATIONS OF THE SYSTEMS --MO, W-----FE, CO, NI---B
67-06 M13-70219
EQUILIBRIA IN THE IRON-CARBON-OXYGEN SYSTEM IN THE TEMPERATURE AND CONCENTRATION RANGE OF LIQUID STEEL, AND HOW IT IS INFLUENCED BY PHOSPHORUS, MANGANESE, AND SULPHUR
67-06 M13-70257
ISOTHERMAL SECTION OF THE MOLYBDENUM-IRON-BORON SYSTEM
67-06 M13-70773
EFFECT OF COBALT ON THE ACTIVITY OF SULFUR IN LIQUID IRON
67-06 M15-72071
SUPERPLASTICITY IN THE NI-FE-CR SYSTEM
67-06 M17-71073
ELECTRODEPOSITION OF THIN MAGNETIC FILMS IN THE NI-FE-CU SYSTEM
67-07 M12-73593
TERNARY COMPOUNDS WITH A SUPERLATTICE OF THMN12 TYPE IN THE YTTRIUM-TRANSITION METAL-ALUMINUM SYSTEMS
67-07 M13-73480
EXTENT AND LATTICE PARAMETERS OF THE LAVES PHASE FIELD IN THE FE-NB-SI SYSTEM
67-07 M13-74174
LOW TEMPERATURE SPECIFIC HEAT OF BCC ALLOYS OF 3D TRANSITION ELEMENTS WITH 20 PER CENT AL
67-07 M15-73630
METAL-REFRACTORY REACTION STUDIES IN THE IRON-CHROMIUM-SILICA SYSTEM
67-08 M14-75035
ELECTROLYTIC A-C CORROSION OF POLYELECTRODE SYSTEMS
67-08 M18-74623
THE METASTABLE EQUILIBRIUM DIAGRAM OF THE FE-C-SI SYSTEM
67-09 M13-76944
THE MOLYBDENUM-IRON-SILICON SYSTEM
67-09 M13-77758
PHASE EQUILIBRIA IN THE TERNARY SYSTEM PLUTONIUM-CERIUM-IRON
67-09 M14-76324
CONTRIBUTION TO THE STUDY OF THE CHEMICAL ACTIVITY OF THE ELEMENTS PHOSPHORUS, SULPHUR, SILICON, COPPER AND CHROMIUM IN MOLTEN IRON SOLUTIONS SATURATED WITH CARBON
67-09 M14-77343
A CLARIFICATION OF THE PHASES OCCURRING IN ALUMINIUM-RICH ALUMINIUM-IRON-SILICON ALLOYS, WITH PARTICULAR REFERENCE TO THE TERNARY PHASE ALPHA-ALFESI
67-10 M13-78450
STUDY OF THE EQUILIBRIUM DIAGRAM OF THE TINI-TIFE SYSTEM
67-11 M13-81172
STUDY OF DIFFUSION PHENOMENA IN THE TERNARY SYSTEM FE-NI-CO
67-11 M14-80147
NONMAGNETOSTRICTIVE COMPOSITIONS OF FE-NI-CO FILMS
67-11 M15-81097
PHASE EQUILIBRIA AND DISTRIBUTION OF THE ELEMENTS IN THE FE-O-AL SYSTEM
67-12 M13-82108
THE TERNARY CR-FE-SI SYSTEM
67-12 M13-82124
STRUCTURAL DIAGRAMS AND PHASE REACTIONS OF FE-CR-N TERNARY SYSTEM
67-12 M13-82826
IRON, THERMAL PROPERTIES
MEASURING THE THERMAL CONDUCTIVITY OF SOLIDS AT ELEVATED TEMPERATURES UP TO THE MELTING POINT
67-01 M15-58226
A USEFUL RELATIONSHIP BETWEEN ATOMIC VIBRATION AMPLITUDES AND THERMAL EXPANSION FOR CUBIC SOLIDS
67-02 M15-59099
TRANSIENT DETERMINATIONS OF THERMAL DIFFUSIVITIES AND DISSIPATIONS OF METAL FOILS
67-02 M15-61073
TEMPERATURE DEPENDENCE OF THE HEAT CAPACITY OF IRON-ALUMINUM ALLOYS IN THE COMPOSITION RANGE TO 27 AT. PER CENT AL
67-04 M15-67376
SPONTANEOUS HEATING OF POROUS MATERIALS DURING OXIDATION
67-08 M09-75852
THERMAL PROPERTIES OF ARMCO IRON
67-11 M15-80122
HEAT CAPACITY AND THERMODYNAMIC FUNCTIONS OF IRON
67-11 M15-81151
THERMODYNAMIC FUNCTIONS OF IRON
67-12 M15-82958
IRON, THERMODYNAMICS
THE ACTIVITY OF OXYGEN IN THE LIQUID FE-PT ALLOY SYSTEM
67-01 M15-58469
ESTIMATION BY THE PARTITION METHOD OF THE ACTIVITY OF SMALL AMOUNTS OF IRON IN LIQUID BERYLLIUM AT 1645 K
67-03 M15-65238
HEAT CAPACITY OF COBALT IN THE VICINITY OF THE CURIE POINT
67-03 M15-65633
USE OF DEFORMATION RATE MEASUREMENTS IN THERMODYNAMICS
67-04 M13-67258
EFFECT OF ALUMINUM ON THE ACTIVITY OF OXYGEN DISSOLVED IN MOLTEN IRON
67-04 M14-66953
THERMODYNAMICS OF ELECTRONIC STRUCTURE OF NI IN LIQUID FE SOLUTION
67-04 M15-66353
EFFECT OF NITROGEN ON SURFACE TENSION OF LIQUID IRON AND ITS ALLOYS
67-04 M15-66607
DETERMINATION OF THE ACTIVITY COEFFICIENT AT 1600 C. OF URANIUM IN AN INFINITELY DILUTE SOLUTION IN LIQUID IRON BY STUDYING A HETEROGENEOUS EQUILIBRIUM
67-09 M15-77680

IRON, THIN FILMS
HALL EFFECT IN FE THIN FILMS 67-04 M15-67728
METHOD FOR MOUNTING THIN FILMS WITHOUT SUBSTRATES 67-05 M12-68658
AMORPHOUS NUCLEATION IN METALS 67-05 M14-68413
STRENGTH OF MULTILAYERED VACUUM CONDENSATES 67-05 M17-68578
MECHANICAL PROPERTIES OF ELECTRODEPOSITED IRON FROM SULFATE BATH--CONDITIONS OF ELECTRODEPOSITION 67-07 M17-72602
STRUCTURAL AND MAGNETIC PROPERTIES OF EPITAXIAL FILMS OF IRON 67-08 M15-75243
EFFECT OF MECHANICAL STRESS ON MAGNETIC REVERSAL PROCESSES IN FERROMAGNETIC FILMS 67-08 M15-75255
THE ELECTRODEPOSITION OF THIN FE-NI FILMS 67-10 M12-79893
MAGNETIC ANISOTROPY IN FERROMAGNETIC THIN FILMS 67-10 M15-78496
INVESTIGATION OF MAGNETIZATION CURVES OF UNIAXIAL FILMS 67-10 M15-79458
X-RAY DIFFRACTION BY MULTILAYERED THIN-FILM STRUCTURES AND THEIR DIFFUSION 67-12 M14-82377
ELECTRON MICROSCOPIC STUDIES ON ORIGINS OF MAGNETIZATION RIPPLES IN FERROMAGNETIC THIN FILMS 67-12 M15-81761

IRON, TRANSPORT PROPERTIES
ELECTRO- AND THERMOTRANSPORT IN IRON 67-06 M15-70426
EFFECT OF PRESSURE ON THE MOSSBAUER EFFECT OF FE57 IN NICKEL METAL 67-09 M16-77441
ELECTROMIGRATION OF HYDROGEN ISOTOPES DISSOLVED IN 67-12 M15-82729

IRON, WEAR
INFLUENCE OF OXIDE FILMS ON FRICTION AND WEAR DURING SLIDING 67-09 M17-76369
SLIDING CHARACTERISTICS OF SILVER AGAINST IRON AS INFLUENCED BY OXYGEN CONCENTRATION 67-10 M17-78551

IRON, WELDING
STUDY OF DIFFUSION IN NONSTATIONARY HEATING DURING DIFFUSION WELDING 67-01 M11-58267
DIFFUSION TAKING PLACE DURING THE NON-STEADY HEATING IN DIFFUSION WELDING 67-04 M11-67348
SEAM WELDING OF TINNED SHEET IRON UNDER SHIELDING GAS 67-07 M11-72416
FORMING JOINTS WHEN WELDING WITHOUT FUSION 67-08 M11-75407
AUTOMATIC SUBMERGED ARC WELDING OF ARMCO IRON 67-09 M11-77616
CHARACTERISTICS OF DIFFUSION PROCESS DURING ULTRASONIC WELDING OF COMMERCIAL IRON 67-09 M14-77418
FORMATION OF JOINTS DURING WELDING WITHOUT MELTING 67-12 M11-82028
RESISTANCE BUTT WELDING OF MOLYBDENUM TO ARMCO IRON 67-12 M11-83189

IRON, X RAY ANALYSIS
SPECIMEN CONTAMINATION IN ELECTRON-PROBE MICROANALYSIS AND ITS PREVENTION USING A COLD TRAP 67-04 M13-66246

IRON, X RAY DIFFRACTION
FINDING MICROFOCUS OF X-RAY UNIT EMPLOYING TELEFOCUS ELECTRON BEAM ONE-STEP REDUCING TECHNIQUE AND ITS APPLICATION 67-05 M14-68534

IRON AND STEEL MAKING
SEE ALSO IRONMAKING
SPRAY STEEL MAKING
STEEL MAKING
RECENT ADVANCES IN STEEL WORKS REFRACTORIES 67-01 M05-58645
MODERN IRON MELTING TECHNIQUES AND THEIR APPLICATION 67-03 M06-65003
FOUNDATION OF NATIONAL RESEARCH INSTITUTE FOR METALS, PROCEEDINGS 67-04 M01-67539
PRODUCTION OF FLUXED SINTER WITH AN IRON CONTENT OF OVER 61 PER CENT AND BLAST-FURNACE OPERATION ON SUCH SINTER 67-04 M04-67680
REVIEW OF INGOT PRACTICE 67-05 M04-68601
FOUNDATIONS OF IRON AND STEEL METALLURGY 67-06 M04-70699
TRENDS IN IRON AND STEEL PLANT REFRACTORIES 67-07 M05-73719
COOPERATIVE STEEL RESEARCH IN GREAT BRITAIN 67-09 M04-77839
ENERGY PROBLEMS OF THE IRON AND STEEL INDUSTRY 67-10 M04-78328

IRON AND STEEL PLANTS
NIPPON KOKANS STEELWORKS IN THE SEA 67-03 M04-65678
THE NEW ELECTRIC STEELWORKS OF MARREL BROTHERS CO. AT RIVE-DE-GIER 67-04 M04-66669
SPRAY STEELMAKING PLANT IN OPERATION AT MILLOM 67-04 M04-68053
STEEL DEGASSING METHODS IN THE UNITED STATES 67-07 M04-72904

IRON AND STEEL PLANTS, AUTOMATION
THE COMPUTERS ROLE IN STEEL PLANT AUTOMATION 67-05 M04-69175

IRON BASE ALLOYS
SEE FERROUS ALLOYS

IRON CARBIDES, CRYSTAL LATTICES
EVOLUTION OF IRON CARBIDES DURING TEMPERING OF MARTENSITE 67-12 M14-81814

IRON COMPOUNDS
SEE ALSO IRON CARBIDES

IRON COMPOUNDS, ATOMIC PROPERTIES
FERRITES 67-12 M15-82898

IRON COMPOUNDS, BENEFICIATION
HEAT FAST PROCESS UTILIZES STEEL MILL WASTE TO MAKE PRE-REDUCED PELLETS 67-02 M04-61640
THE CHEMICAL EXPLOITATION OF FE CARRIERS 67-06 M02-70079

IRON COMPOUNDS, COATINGS
SURFACE TREATING BEFORE PAINTING--IRON AND ZINC PHOSPHATIZING 67-02 M12-58978

IRON COMPOUNDS, CORROSION
THERMOGRAVIMETRIC INVESTIGATIONS OF SUBSTANCES CONTAINING SULFATE WITH HIGH-TEMPERATURE CORROSION ON THE FIRE SIDE OF COAL-FIRED BOILERS 67-02 M18-62009

IRON COMPOUNDS, CRYSTAL GROWTH
CRYSTAL GROWTH OF WUSTITE,FE1-XO 67-02 M14-60922

IRON COMPOUNDS, CRYSTAL LATTICES
STRUCTURAL STUDIES OF THE CARBIDES --FE,MN--3C AND --FE,MN--5C2 67-01 M13-57421
THE RECOVERY AND ORDERING PROCESSES OF COLD WORKED NI-FE ALLOYS 67-03 M14-65386
DISLOCATION MORPHOLOGY IN SHOCK DEFORMED BCC AND FCC METALS AND ALLOYS 67-04 M13-66071
POINT DEFECTS IN BINARY COMPOUNDS 67-07 M13-74099
CRYSTALLOGRAPHY OF BA3UFE2O9 AND SR3UFE2O9 COMPOUNDS 67-09 M13-76468
HIGH-TEMPERATURE DEFECT STRUCTURE OF FERROUS OXIDE 67-09 M13-77725
THE STRUCTURE AND EVOLUTION OF CRYSTALLINE PARAMETERS IN THE SOLID SOLUTION --CR,FE--7C3 67-10 M13-79587
INVESTIGATION OF --FE, MN--1-YO SOLID SOLUTIONS 67-10 M14-80023

IRON COMPOUNDS, CRYSTAL STRUCTURE
CRYSTALLOGRAPHIC CHARACTERISTICS OF THE IRON PHOSPHIDE --FE3P-- PRECIPITATE IN FERRITE 67-01 M14-58340

IRON COMPOUNDS, ELECTRICAL PROPERTIES
ANOMALOUS ELECTRICAL RESISTIVITY OF FE7SE8 67-07 M15-73990

IRON COMPOUNDS, FERRITES
STUDY OF MAGNETIC RESISTANCE OF ORIENTED HEXAGONAL FERRITES 67-04 M15-66485
RELATIONSHIP OF MAGNETIZATION SATURATION AND ELECTRICAL RESISTANCE OF A NI-ZN-CO FERRITE WITH AN INDUCED RIGHT-ANGLED HYSTERESIS LOOP TO PHASE COMPOSITION 67-04 M15-66496

IRON COMPOUNDS, INCLUSIONS
THE STUDY OF SULFURIZED HIGH-SPEED STEEL. PT. 3. INCLUSIONS IN SULFURIZED HIGH-SPEED STEEL 67-02 M13-59116
DIAGRAM SHOWING PHASE RELATIONS OF THE OXIDE INCLUSIONS FORMED IN STEELS OF THE FE-CR-O SYSTEM 67-02 M13-60623

IRON COMPOUNDS, MAGNETIC PROPERTIES
MAGNETIC PROPERTIES OF FE-MODIFIED MN3B4 67-02 M15-59469
MOSSBAUER EFFECT IN ALPHA-FE2O3 67-02 M15-61524
THE EFFECT OF OXYGEN STOICHIOMETRY ON THE MAGNETO-CRYSTALLINE ANISOTROPY OF MAGNETITE 67-03 M15-65162
THE MAGNETIC STRUCTURE OF FE2AS 67-03 M15-65637
ON THE BEHAVIOR OF METALS UNDER INTENSE MAGNETIC FIELD 67-04 M15-67545
TEMPERATURE DEPENDENCE OF THE INITIAL COMPLEX

PERMEABILITY OF CO0.6ZN0.4FE2O4 FERRITES OVER A WIDE RANGE OF FREQUENCIES 67-05 M15-69387
PARAMAGNETIC SUSCEPTIBILITY OF MN-ZN FERRITES NEAR THE CURIE TEMPERATURE 67-05 M15-69396
MAGNETIC ANISOTROPY IN THE C-PLANE OF FE2AS 67-05 M15-69755
STRUCTURAL AND CHEMICAL ALTERATIONS OF DELTA FE2O3 AND THEIR EFFECT ON MAGNETIC PROPERTIES.. 67-07 M15-72824
ON THE COERCIVITY OF GAMMA FE2O3 PARTICLES 67-07 M15-73503
MAGNETIC PROPERTIES OF THE IRON-GROUP METAL PHOSPHIDES 67-07 M15-73545
MAGNETIC BEHAVIOR OF THE SYSTEM MN2O3-FE2O3 67-07 M15-73600
MAGNETIC PROPERTIES OF FEXO AS RELATED TO THE DEFECT STRUCTURE 67-07 M15-73602
NEUTRON DIFFRACTION STUDY OF FE7SE8 67-07 M15-73989
BEHAVIORS OF SOME MAGNETIC COMPOUNDS UNDER INTENSE MAGNETIC FIELDS 67-08 M15-74439
EXCHANGE ANISOTROPY IN THE MIXED PHASE OF GAMMA-FE2O3 AND ALPHA-FE2O3 67-08 M15-74607
THE MAGNETOCRYSTALLINE ANISOTROPY OF IRON SELENIDE FE7SE8 67-08 M15-76173
SUBLATTICE MAGNETIZATION IN FEF3 NEAR THE NEEL POINT 67-10 M15-79364
MAGNETIC BEHAVIOR OF A EUTECTIC ALLOY FEATURING AN ALIGNED ARRAY OF IRON RODS 67-11 M15-80124
CRYSTALLOGRAPHIC STUDY OF THE COMPOSITION FEXGA2-XO3 USING POLARIZED NEUTRONS 67-11 M15-81674
MAGNETIC STUDY OF THE SOLID SOLUTION, MN-P-FEP, 67-12 M15-83105
STRUCTURAL AND MAGNETIC STUDY OF ARSENIDES M2AS 67-12 M15-83220

IRON COMPOUNDS, MECHANICAL PROPERTIES
PLASTIC DEFORMATION OF FERROUS OXIDE 67-07 M17-72939

IRON COMPOUNDS, OXIDATION
RATE OF OXIDATION OF DIVALENT IRON IN SLAG BY GASEOUS OXYGEN 67-02 M14-60728

IRON COMPOUNDS, PHASE TRANSFORMATIONS
TRANSFORMATION OF THE SECOND ORDER OF FE2O3 AT 685 C 67-08 M14-76049

IRON COMPOUNDS, PHASES /STATE OF MATTER/
NEW HIGH PRESSURE PHASES HAVING THE CORUNDUM STRUCTURE 67-04 M13-67364

IRON COMPOUNDS, PHYSICAL PROPERTIES
ELECTRONIC EXCHANGE AND THE MOSSBAUER EFFECT IN IRON-BASED INTERSTITIAL COMPOUNDS 67-03 M16-65718
MOSSBAUER EFFECT IN IRON-CARBON AND IRON-NITROGEN ALLOYS 67-04 M16-66536
DENSITY OF IRON OXIDE-SILICA MELTS 67-06 M15-69943
MOSSBAUER STUDY OF THE FE-MN CARBIDES --FE1-XMNX--3C AND --FE1.1MN3.9--C2 67-12 M16-82005

IRON COMPOUNDS, POWDER METALLURGY
CARBONYL METHOD FOR PRODUCTION OF FINE AND UNIFORM IRON OXIDE POWDERS 67-08 M09-74301
METHOD FOR PRODUCTION OF IRON POWDERS BY REDUCTION WITH CARBIDES 67-08 M09-74302

IRON COMPOUNDS, QUATERNARY SYSTEMS
PHASE RELATIONS IN THE SYSTEM FEO-FE2O3-ZRO2-SIO2 67-07 M14-72826

IRON COMPOUNDS, REACTIONS /CHEMICAL/
INVESTIGATION OF THE REACTIONS OF LIQUID HIGH-IRON --2-- OXIDE SLAGS WITH SOLID CARBON 67-01 M04-58447
THE REDUCTION OF TITANIUM DIOXIDE AND MIXTURES WITH FERRIOXIDES AND METALLIC IRON IN THE SOLID STATE WITH H2 67-02 M03-60600
STUDY OF THE MECHANISM OF ELECTROLYTIC REDUCTION OF OXIDES OF IRON 3 IN AN ALKALINE MEDIUM. PT. 2 67-02 M14-59902
STUDY OF THE MECHANISM OF ELECTROLYTIC REDUCTION OF OXIDES OF IRON 3 IN AN ALKALINE MEDIUM. PT. 1 67-02 M14-59903
KINETICS OF NEAR-EQUILIBRIUM REDUCTION OF WUSTITE 67-03 M14-65082
CHLORINATING IRON-VANADIUM SPINEL IN SOLID PHASE 67-05 M02-68965
AN APPROXIMATE ANALYSIS FOR THE REDUCTION OF IRON-OXIDE PELLETS IN THE MIXED-CONTROL MECHANISM 67-07 M04-72535
ELECTROCHEMICAL AND ELECTRICAL INVESTIGATIONS IN THE FE-P-O-LIME SYSTEM 67-09 M15-77083
KINETICS OF THE REACTION OF IRON, NICKEL AND COBALT OXIDES WITH GRAPHITE 67-11 M14-81372

IRON COMPOUNDS, REDUCTION /CHEMICAL/
EQUILIBRIUM REACTION OF THE DISSOCIATION AND REDUCTION OF IRON OXIDE PHOSPHATES 67-10 M14-79316
IRON POWDER VIA FECL2 TO GO COMMERCIAL 67-11 M09-81359
THE RATE AND MECHANISM OF THE REDUCTION OF FEO AND MNO FROM SILICATE AND ALUMINATE SLAGS BY CARBON-SATURATED IRON 67-12 M04-82724

IRON COMPOUNDS, REFINING
NEW METHOD OF PURIFYING IRON BY ELECTROTRANSPORT IN FERROUS OXIDE 67-02 M04-58924

IRON COMPOUNDS, SEMICONDUCTORS
ROLE OF PURPOSELY PRODUCED ALTERNATIONS OF CRYSTAL STRUCTURE IN THE MANUFACTURE OF CERAMIC PRODUCTS 67-05 M15-68813

IRON COMPOUNDS, SINGLE CRYSTALS
THE ORIGIN AND FORMATION OF DOMAIN STRUCTURE IN MAGNETOUNIAXIAL FERROMAGNETICS. PT. 2 67-08 M15-75256

IRON COMPOUNDS, SLAGS
FORMS OF THE BONDING OF SULFUR IN BLAST FURNACE SLAGS 67-01 M04-57918

IRON COMPOUNDS, SOLUBILITY
ON THE SOLUBILITIES OF FERRIC OXIDES AND OTHER SLAG FORMERS IN COPPER MATTE 67-11 M13-81452
ACTIVITY OF INTERSTITIAL AND NONMETALLIC SOLUTES IN DILUTE METALLIC SOLUTIONS--LATTICE RATIO AS A CONCENTRATION VARIABLE 67-12 M15-82750

IRON COMPOUNDS, THERMAL PROPERTIES
ON THE THERMAL EXPANSION OF WUSTITE 67-08 M15-74894

IRON COMPOUNDS, THERMODYNAMICS
ENTHALPY OF SOLID AND LIQUID FE4GE3 AND FEGE COMPOUNDS 67-09 M15-77123

IRON CONSTITUENTS
SEE ALPHA IRON
GAMMA IRON

IRON ORES
SEE ALSO HEMATITE
MAGNETITE
PYRITE
PYRRHOTITE
SIDERITE
TACONITE

IRON ORES, BENEFICIATION
CLASSIFICATION OF SINTER MATERIALS 67-01 M02-58594
AGGLOMERATION, REOXIDATION AND ABNORMAL PHENOMENA IN THE KILN 67-02 M02-59151
COMPUTER CONTROL IMPROVES METALLURGY AT TENNESSEE COPPERS FLOTATION PLANT 67-02 M02-59496
CHEMICAL BENEFICIATION OF TANTALUM NIOBIUM IRON PRODUCTS USING HYDROCHLORIC ACID 67-02 M02-59546
INDUSTRIAL TECHNOLOGY FOR ROASTING AND MAGNETIC BENEFICIATION OF KERCH TOBACCO ORES 67-02 M02-59697
EFFECT OF SIZE AND QUANTITY OF RETURNS ON PRODUCTIVITY AND STRENGTH OF SINTER 67-02 M02-60055
ON THE HEIGHT OF THE DRYING ZONE DURING ORE AGGREGATION 67-02 M02-60722
MAGNETIC SEPARATION OF NICKEL FROM NICKEL CONTAINING IRON ORE, TREATED BY SULFIDIZING AND REDUCING ROASTING 67-02 M03-58937
HOW EMULSIONS OF APOLAR REAGENTS ACT IN THE FLOTATION OF IRON ORES 67-04 M02-66652
UPGRADING LORRAINE MINERALS. ENRICHMENT BY PHYSICAL MEANS 67-04 M02-67398
SELECTIVE CHLORINATION OF IRON ORES CONTAINING CHROMIUM AND NICKEL BY FLUIDIZED ROASTER 67-04 M02-67553
FLOTATION OF COMPLEX IRON ORES 67-04 M02-67827
FLOTATION OF OXIDIZED QUARTZITES FROM THE SOUTH ORE-DRESSING PLANTS COMBINE 67-04 M02-67880
STUDY OF INVERSE FLOTATION OF MIKHAILOVSK QUARTZITES WITH AN ANION COLLECTOR 67-04 M02-67933
STUDY OF POSSIBLE MAXIMUM EXTRACTION OF IRON AND INCREASED REMOVAL OF LEAD IN MAGNETIZING ROASTING OF KREMIKOVO IRON ORE 67-04 M03-67446
GMELINS HANDBOOK OF INORGANIC CHEMISTRY. THE METALLURGY OF IRON 67-04 M04-67222
GMELINS HANDBOOK OF INORGANIC CHEMISTRY. METALLURGY OF IRONS 67-04 M04-67223
INVESTIGATION OF WEAR WITH VARIOUS ORES AND BALLS 67-04 M09-67746

REGULATION OF THE DL SINTER STRAND IN HADIR-DIFFERDINGEN 67-05 M02-68535
MANUFACTURING OF FLUXED PELLETS 67-05 M02-68542
ON THE REACTION HEAT OF OXIDATION OR REDUCTION OF IRON ORES IN THE PROCESS OF SINTERING 67-05 M04-69478
THE CHEMICAL EXPLOITATION OF FE CARRIERS 67-06 M02-70079
EFFECT OF MAGNETIC FLOCCULATION ON MAGNETIC BENEFICIATION OF ORES 67-06 M02-70208
TECHNICAL AND ECONOMIC INFLUENCE OF IRON ORE DRESSING ON THEIR FURTHER TREATMENT 67-06 M02-70853
PRODUCTION OF FLUXED PELLETS 67-07 M02-72453
EFFECT OF TREATMENT OF IRON-ORE PELLETS FOR POROSITY UPON THEIR REDUCIBILITY. PT. 1. STUDY OF REDUCTION OF IRON-ORE PELLETS 67-07 M02-72542
TREATING IRON ORES OF DIFFERENT ORIGINS 67-07 M02-72902
INFLUENCE OF THE OVER-WET ZONE ON THE BED PERMEABILITY IN SINTERING IRON ORES 67-07 M02-73001
HOW THE POROSITY OF FERRUGINOUS MINERALS AFFECTS THEIR FLOTABILITY 67-07 M02-73484
EFFECT OF HUMIDITY AND FINENESS OF CONCENTRATE ON QUALITY OF CHARGE MIXING AND STRENGTH OF THE SINTER 67-07 M02-73770
LABRADORS IRON ORE 67-07 M02-74010
TENDENCIES IN THE FORMATION OF LUMPS OF BURDEN MATERIALS FOR SHAFT FURNACES 67-07 M02-74104
PRELIMINARY RETENTION OF LIME IN A SINTER BATCH CONCENTRATE 67-08 M02-74885
HOW BATCH MAKE-UP AFFECTS FUEL USAGE IN SINTERING 67-08 M02-74886
INFLUENCE OF METHOD OF COOLING ON QUALITY AND PROPERTIES OF SINTER 67-08 M02-75711
CONTROL AND AUTOMATION OF THE SINTERING PROCESS 67-09 M02-76392
INFLUENCE OF MOISTURE CONTENT AND FINENESS OF GRINDING OF CONCENTRATE ON QUALITY OF MIXING AND SINTER STRENGTH 67-09 M02-76533
EXPERIMENTS ON HEAT TREATMENT OF SINTER FROM KURSK MAGNETIC ANOMALY ORES 67-09 M02-76534
CONCENTRATING CAPACITY OF TITANIUM-MAGNESITE ORES FROM THE VELIKOVETS DEPOSITS 67-09 M02-76719
THE USE OF SEMICOKE AS A FUEL FOR SINTERING IRON ORES 67-09 M02-76933
ROAST AND MAGNETIC BENEFICIATION OF CHROMITE ORES IN ENLARGED FACILITIES 67-09 M02-77059
SULFUR REMOVAL IN ROASTING MAGNETITE IRON ORES AND CONCENTRATES CONTAINING MAGNESIAL GANGUE. PT. 7 67-09 M02-77358
THE REDUCTION OF WUSTITE WITH MIXTURES OF HYDROGEN-STEAM AND CARBON MONOXIDE-DIOXIDE MIXTURES 67-09 M02-77844
MAIN TRENDS IN THE DEVELOPMENT OF BLAST FURNACE PRACTICE 67-09 M04-76387
MINERALOGICAL COMPOSITION OF FLUXED PELLETS 67-10 M02-78418
THE INFLUENCE OF THE PHYSICO-CHEMICAL CHARACTERISTICS OF THE FLUXED SINTERS FROM RAJHARA IRON ORE ON THEIR MINEROLOGICAL ANALYSIS. PT. 1 67-10 M02-78751
BENEFICIATION OF ASWAN IRON ORES 67-10 M02-79054
A STUDY OF THE SEMIREDUCTION OF WABANA IRON ORE 67-10 M02-79563
HEAT TREATMENT FOR SINTER 67-10 M02-79826
UPGRADING SINTER 67-10 M02-79827
FLOTATION TRIALS ON MAGNETIC SEPARATION TAILINGS AT THE OLENEGORSK PLANT 67-10 M02-79843
SOME FEATURES OF OLENEGORSK FERRUGINOUS QUARTZITE FLOTATION 67-10 M02-79844
TECHNOLOGY FOR A CONCENTRATE CONTAINING 67-68 PER CENT IRON 67-10 M02-79845
PURIFICATION OF RAW MATERIALS 67-10 M02-79989
DRESSING SYSTEM FOR JASPER-LIKE IRON ORE WITH PARTIAL RECOVERY OF PELLETIZED CONCENTRATE 67-10 M02-80070
DRESSING OXIDIZED FERRUGINOUS QUARTZITES AT CENTRAL DRESSING PLANTS 67-10 M02-80071
SELECTIVE FLOTATION OF IRON FROM A COMPLEX SOLUTION 67-10 M02-80072
HOW ROASTING CONDITIONS AND SUBSTANCE COMPOSITION AFFECT THE MAGNETIC PROPERTIES OF ROAST BAKAL FERROCARBONATE ORE 67-11 M02-81307
RUNNING-IN RESULTS FROM THE KTSGOK PELLETIZING PLANT 67-11 M02-81312
INDUSTRIAL TRIALS OF DRESSING TECHNOLOGY FOR PIT-MINED KRIVOI ROG IRON ORES 67-11 M02-81321
ECONOMICS OF FLOTATION TO OBTAIN HIGH-IRON CONCENTRATES FROM KOLA PENINSULA ORE 67-11 M02-81437
SINTERING IRON ORES NAUK SSSR, MOSCOW, 1966, P 5-74 67-11 M02-81454
PRODUCTION OF IRON ORE PELLETS AND BRIQUETS FOR THE BLAST FURNACE 67-11 M02-81455
HOW THE CRYSTAL STRUCTURE OF ANHYDROUS IRON OXIDES AFFECTS THEIR FLOTABILITY 67-11 M02-81456
MAGNETIC HYDROSTATIC SEPARATION OF LISAKOVSK ORES 67-11 M02-81457
CENTRIFUGAL SEPARATION TO RAISE IRON CONTENT OF KERCH ORES 67-11 M02-81634
THE EFFECT OF THE COARSENESS OF IRON ORES AND CONCENTRATES ON THE SINTERING INSTALLATION PRODUCTIVITY 67-12 M02-81705
INFLUENCE OF OXIDATION ON THE FLOTATION OF COMPLEX CU-ZN IRON SULPHIDE ORES 67-12 M02-81732
INVESTIGATION OF TECHNICAL PARAMETERS IN THE PRODUCTION OF PARTLY REDUCED ORE-COAL PELLETS 67-12 M02-82104
THE PELLETIZING OF IRON ORE WITH PREROASTED MATERIAL 67-12 M02-82555
FLOTATION EXPERIMENTS WITH EARTHY IRON ORES 67-12 M02-82918
ORE PREPARATION FOR MODERN BLAST FURNACE PLANT 67-12 M02-83075
THE INFLUENCE OF THE PHYSICOCHEMICAL CHARACTERISTICS OF THE FLUXED SINTERS FROM RAJHARA IRON ORE ON THEIR MINEROLOGICAL ANALYSIS. PT. 1 67-12 M02-83120
STUDY OF THE AGGLOMERATION OF IRON ORE FINES FROM THE EL MARQUESADO MINE 67-12 M02-83202
CHARACTERISTICS OF BRAZILIAN IRON ORES AND THEIR AGGLOMERATES 67-12 M02-83255
HIGH-SPEED SINTER BATCH CALCULATION 67-12 M02-83412
MINERAL COMPOSITION OF FLUXED SINTERS 67-12 M02-83416
HOW BASICITY AFFECTS SINTER PROCESS INDEXES AND METALLURGICAL PROPERTIES OF THE PRODUCT 67-12 M02-83452

IRON ORES, CHARGE PREPARATION
PREPARATION OF THE BLAST-FURNACE BURDEN 67-06 M02-72005

IRON ORES, CHARGING
CALCULATING THE COOLING EFFECTS OF IRON ORE AND A THERMAL FACTOR FOR CONVERTING FROM ORE TO SCRAP METAL 67-04 M04-66707

IRON ORES, CHEMICAL ANALYSIS
PRECISION COMPARISON OF FLUORESCENT X-RAY ANALYSIS BY THE LOOSE POWDER AND BRIQUET TECHNIQUES 67-02 M04-59122
RAPID METHOD FOR THE DETERMINATION OF MAGNETITE IN METALLURGICAL OXIDE MATERIALS 67-02 M19-59506
PHASE ANALYSIS BY CHEMICAL METHODS IN ORES AND MINE PRODUCTS 67-05 M19-69120
SIMULTANEOUS DETERMINATION OF PB AND ZN IN IRON, STEEL AND IRON ORES BY THE D-C POLAROGRAPHIC METHOD 67-09 M19-77247
FLUORESCENT X-RAY ANALYSIS OF IRON ORES, REFRACTORY BRICKS AND SLAGS--ERRORS OF DETERMINATION 67-09 M19-77986

IRON ORES, CLASSIFICATION
CONDITIONS NECESSARY IN REDUCIBILITY TESTS IN IRON ORES 67-10 M04-79099

IRON ORES, DIRECT REDUCTION
APPARATUS FOR DEOXIDIZING SINTERED ORE 67-01 M04-57678
ORE REDUCTION METHOD 67-09 M04-76709
DIRECT PRODUCTION OF MOLTEN METAL IN ROTARY TUBE FURNACES 67-09 M04-76816

IRON ORES, DRYING
DEWATERING IRON ORE CONCENTRATES ON AUTOMATIC FILTER PRESSES 67-06 M02-70169

IRON ORES, EXTRACTION
WET OXIDATION OF IRON SULPHIDE CONCENTRATES CATALYZED BY NITRIC ACID 67-10 M04-78743

IRON ORES, FLUXING
BLAST FURNACE MELTING AND PRODUCTION OF FLUXED SINTER, CONTAINING OVER 61 PER CENT IRON 67-02 M04-61861

IRON ORES, HEAT TREATMENT
INVESTIGATION OF THE DRYING PROCESS OF IRON-ORE

PELLETS 67-06 M02-70118
IRON ORES, IRONMAKING
FRENCH EXPERIMENTS FOR CONTROLLING THE BLAST FURNACE OPERATION USING A COMPUTER ON LINE 67-01 M04-57501
SPENCER WORKS IRONMAKING PLANT 67-01 M04-57504
THE STORA METHOD FOR REDUCING IRON ORE TO PIG IRON 67-01 M04-57509
PARTIAL COMBUSTION OF FUEL OIL WITH OXYGEN AND APPLICATION TO SMELTING IRON ORE 67-09 M04-76475
IRON ORES, MAGNETIC PROPERTIES
NUCLEAR MAGNETIC RESONANCE OF FE57 IN SINGLE-CRYSTAL HEMATITE 67-02 M15-60531
IRON ORES, MECHANICAL PROPERTIES
STUDY OF THE MECHANISM OF STRENGTHENING OF SLAG-BONDED IRON-ORE PELLETS 67-06 M17-72396
EFFECT OF TREATMENT OF IRON-ORE PELLETS FOR POROSITY UPON THEIR STRENGTH. PT. 2. STUDY OF THE REDUCTION OF IRON-ORE PELLETS 67-06 M17-72397
METALLURGICAL PROPERTIES OF IRON-ORE PELLETS OBTAINED BY NONFIRING METHODS 67-07 M02-73017
ON THE SOFTENING PROPERTY OF IRON ORE SINTER WITH VARIOUS BASICITY RATIOS 67-12 M04-81742
IRON ORES, MELTING
SUPPLIERS TO THE INDUSTRY--IRONMAKING AT WORKINGTON IRON AND STEEL 67-01 M04-58593
BLAST FURNACE OPERATION USING MARCONA PELLETS UP TO 65 PER CENT IN BURDEN 67-02 M04-60035
RESEARCH INTO BLOWING VANADIUM-CONTAINING IRONS FROM KACHKANARSK ORE IN 100-TON OXYGEN CONVERTERS 67-09 M04-76573
DISTRIBUTION OF ELEMENTS IN BLAST FURNACE SMELTING OF TITANOMAGNETITES 67-11 M04-81149
IRON ORES, PELLETING
DETERMINATION OF CHARACTERISTICS OF SINTERED PRODUCTS 67-01 M02-58369
TECHNIQUES OF PRODUCING PELLETS FROM IRON-ORE FLOTATION CONCENTRATES 67-02 M02-60893
ON THE OPTIMUM GAS PERMEABILITY OF SINTER CHARGE AND THE CONDITIONS OF FUEL COMBUSTION 67-02 M02-62256
IRON ORES, PHASE TRANSFORMATIONS
TRANSFORMATION OF WUSTITE 67-05 M04-69480
IRON ORES, PHYSICAL PROPERTIES
INFLUENCE OF FLUXES UPON THE MINERAL CONSTITUENTS AND PHYSICAL PROPERTIES OF IRON ORE SINTER 67-04 M02-66297
STUDY OF THE ELECTROCONDUCTIVITY OF SINTERING CHARGES AND THEIR COMPONENTS 67-06 M02-70267
IRON ORES, POWDER METALLURGY
MANUFACTURING OF IRON POWDER BY DIRECT REDUCTION WITH NATURAL GAS 67-02 M09-59611
OBTAINING IRON POWDER BY DIRECT REDUCTION WITH NATURAL GAS 67-09 M09-76932
IRON ORES, REACTIONS /CHEMICAL/
ON THE MECHANISMS AND KINETICS OF HYDROGEN REDUCTION OF ILMENITE ORE 67-02 M02-60153
ON THE SWELLING OF MARCONA IRON ORE PELLET DURING REDUCTION 67-02 M04-58841
REACTION KINETICS IN THE BLAST FURNACE 67-02 M04-60265
REDUCTION OF IRON FROM FERRO-MONTICELLITE 67-02 M04-61201
KINETICS OF REDUCTION OF FLUXED IRON ORE PELLETS WITH CO AND BLAST FURNACE GAS 67-02 M04-61202
INTERACTION OF MOO3 AND FE2O3 WITH CARBON 67-02 M14-60051
ON THE KINETICS OF CHLORINATING CO3O4, FE2O3 AND COFE2O4 WITH GASEOUS CHLORINE 67-03 M03-65577
FURTHER DEVELOPMENTS IN THE CHEMICAL TREATMENT OF LOW-GRADE IRON ORES AT APPLEBY-FRODINGHAM 67-04 M02-67019
INFLUENCE OF DISSOLVED BIVALENT CATIONS UPON THE DECOMPOSITION MECHANISM OF WUSTITE FE1-XO BELOW 600 C 67-04 M14-66298
KINETICS OF REDUCTION OF FLUXED IRON ORE PELLETS BY HYDROGEN 67-05 M02-69606
BEHAVIOR OF IRON ORE PELLETS SUBJECTED TO REDUCTION 67-05 M03-68458
USING THE REDUCING CAPACITY OF NATURAL GAS IN THE PRODUCTION OF BASIC PHOSPHORUS IRON 67-05 M04-68318
APPLICATION OF A GENERALIZED RATE EQUATION TO THE GASEOUS REDUCTION OF IRON OXIDE 67-06 M04-69902
UTILIZATION OF REDUCING CAPACITY OF NATURAL GAS IN PRODUCTION OF STEELMAKING PHOSPHORIC PIG IRON 67-07 M04-72846
THE APPLICATION OF CHEMICAL KINETICS TO IRONMAKING PROCESS 67-08 M04-75546
THE THERMAL DEHYDRATION OF HYDROXIDIC IRON ORES 67-09 M10-77080
ON THE MECHANISM AND KINETICS OF REDUCTION OF A MIXTURE OF IRON AND ZINC OXIDES BY CARBON MONOXIDE 67-10 M04-79830
REDUCTION OF DASHKESAN IRON ORE WITH HYDROGEN AND CARBON MONOXIDE AS THE MAIN COMPONENTS OF CONVERTED NATURAL GAS 67-10 M04-79846
THE EFFECT OF GAMMA RADIATION ON REDUCTION OF IRON OXIDES BY HYDROGEN 67-10 M04-79849
EFFECT OF STEAM AND CARBON DIOXIDE ON THE REDUCTION OF AGGLOMERATES BY CARBON MONOXIDE 67-11 M04-80848
IRON ORES, REDUCTION /CHEMICAL/
PRODUCTION OF SPONGE IRON FROM LIMONITE ORE IN A FLUIDIZED BED 67-01 M02-57136
ON THE IMPROVEMENT OF REDUCTION BY ROTARY KILN 67-01 M02-57513
REDUCING PROPERTIES OF IRON AND THE BEHAVIOR OF SULFUR DURING THE PRODUCTION OF A SINGLE IRON ORE CHARGE 67-02 M04-59853
HEAT CONSUMPTION FOR REDUCTION ROASTING OF IRON ORES 67-03 M02-65955
REDUCTION OF FLUXED SINTER BY NATURAL GAS. PT. 2 67-03 M04-65952
SOME CHARACTERISTICS OF BRAZILIAN IRON ORES AND AGGLOMERATES 67-04 M03-68038
DETERMINING THE DEGREE OF UTILIZATION OF HYDROGEN IN THE BLAST FURNACE 67-04 M04-66202
OPTIMUM CONDITIONS FOR PRODUCING FERROMOLYBDENUM 67-04 M04-66211
ON THE DIRECT REDUCTION OF IRON OXIDES WITH METHANE IN DIFFERENT TECHNOLOGICAL VARIANTS 67-04 M04-68143
CERTAIN FACTORS AFFECTING THE QUALITY OF A SELF-FLUXED SINTER 67-05 M02-69253
KINETIC CHARACTERISTICS OF REDUCTION OF IRON ORE PELLETS BY HYDROGEN AND BY METHANE 67-05 M04-69503
NATIONAL METALLURGICAL LABORATORY, ANNUAL REPORT 67-06 M01-71435
STUDY OF THE REDUCTION OF IRON OXIDES USING THE MAGNETIC METHOD 67-06 M04-69964
REDUCTION OF IRON IN ORE AND ORE-CARBON GRANULES IN FLUIDIZED BED FURNACE IN STREAM OF NATURAL GAS 67-06 M04-69965
REDUCTION OF A MIXTURE OF ORE AND COKE BY MEANS OF A HYDROGEN PLUS CARBON MONOXIDE PLUS NITROGEN MIXTURE 67-06 M04-72381
CARBON, SULFUR AND OXYGEN IMPURITIES IN IRON POWDER IN RELATION TO CONDITIONS OF REDUCTION BY SOLID CARBON 67-06 M09-69966
COMPREHENSIVE REDUCTION OF A FLUXED SINTER BY MIXED GASES WITH HYDROGEN AND SOLID CARBOM 67-08 M04-74884
INVESTIGATION OF REDUCTION LAYERS OF FE2O3 BY ELECTRON DIFFRACTION AND OPTICAL MICROSCOPY 67-09 M04-77189
HYDROGEN REDUCTION OF IRON OXIDE AT HIGH TEMPERATURES 67-09 M04-78250
EFFECT OF HEATING RATES AND TOTAL DEVELOPED HEAT ON THE REDUCTION PROCESS IN MIXTURES OF ORE AND CARBON 67-11 M04-80337
REDUCTION OF IRON ORES IN THE BLAST FURNACE STACK 67-11 M04-80795
APPLICATION OF THE REACTIONS CONCERNING H2 AND STEAM AND THE TEMPERATURE OF TOP GAS TO THE BLAST FURNACE MODEL 67-11 M04-80940
REDUCTION OF IRON ORE MATERIALS BY CARBON MONOXIDE MIXED WITH HYDROGEN 67-12 M04-81703
CONTINUOUS IRON PROCESS NEARS PILOT PLANT 67-12 M04-82991
A REVIEW OF DIRECT REDUCTION PROCESSES 67-12 M04-83077
CONTRIBUTION TO THE KNOWLEDGE OF THE PHENOMENA OCCURRING DURING THE REDUCTION OF PURE IRON OXIDES. PT. 1. INVESTIGATIONS ON THE KINETICS OF REDUCTION OF IRON OXIDES CONSIDERING PARTICULARLY THE POROSITY AS WELL AS THE ABSOLUTE AND PARTIAL PRESSURE OF THE COMPONENTS OF THE GAS PHASE 67-12 M04-83391
IRON ORES, REFINING
THEORETICAL CONSIDERATION ON COKE RATIO OF THE

IRON ORES

BLAST FURNACE OPERATION. PT. 1. STUDIES FOR THE IMPROVEMENT IN THE BLAST FURNACE PRACTICE 67-01 M04-58259
METHOD OF PRODUCING MOLTEN METAL FROM ORES OR CONCENTRATES 67-02 M04-61070
THE DYNAMICS OF FLUIDIZATION OF IRON AND ITS ORES 67-03 M02-65803
THE PRODUCTION OF IRON SPONGE 67-05 M04-68484
EXPERIMENTAL RESULTS OBTAINED BY VOEST WITH A NEW DIRECT METHOD OF PRODUCING LIQUID STEEL 67-05 M04-69326
OXIDATION OF SULFUR BY MAGNETITE, HEMATITE AND CARBON DIOXIDE GAS 67-06 M02-70268
NEW LIFE FOR THE HYL PROCESS 67-06 M04-70486
ELECTRIC SMELTING OF PIG IRON FROM CHOKODAM-BULAK ORES 67-06 M04-71102
DIRECT IRONMAKING PROCESSES.. A CHALLENGE TO THE BLAST FURNACE 67-06 M04-72008
RESEARCHES INTO THE DIRECT REDUCTION OF IRON ORES WITH THE GASES FROM THE CONVERSION OF METHANE WITH STEAM 67-07 M01-72667
RESEARCH INTO THE DIRECT REDUCTION OF IRON ORES IN TILTING FURNACES USING REDUCING GASES PRODUCED BY CONVERSION OF METHANE WITH AIR 67-07 M04-72975
REDUCTION OF IRON ORES 67-07 M04-74286
EFFECTIVE DESULFURIZING OF IRON OUTSIDE THE FURNACE 67-09 M02-76574
THE LABORATORY DETERMINATION OF MATERIAL CONVERSION RATES AND THEIR APPLICATION TO A SPECIAL KINETIC-MATHEMATICAL MODEL OF A BLAST FURNACE 67-09 M04-77342
REDUCTION KINETICS IN TITANIFEROUS SLAGS 67-10 M04-79948

IRON ORES, SINTERING
PHYSICAL AND CHEMICAL FEATURES OF PREPARING FLUXED SINTERS AND METHODS OF IMPROVING QUALITY 67-02 M02-59696
DEVICE FOR CONTROL AND REGULATION OF THE END OF THE SINTERING PROCESS 67-02 M02-59868
WAYS OF INTENSIFYING THE SINTERING OF IRON-VANADIUM CONCENTRATE 67-02 M02-61739
SINTER STRENGTH IN RELATION TO CONDITIONS OF ITS COOLING 67-02 M02-62135
ON THE MECHANISM OF MINERAL FORMATION DURING SINTERING OF A FLUXED AGGLOMERATE OF A MIXTURE OF KRIVOROG HEMATITE ORES AND FINELY GROUND MAGNETITE CONCENTRATE 67-02 M02-62136
INFLUENCE OF ADDITIONS OF FLUX ON GAS-PHASE COMPOSITION AND DEVELOPMENT OF OXIDATION-REDUCTION REACTION DURING SINTERING OF KRIVOROG ORE 67-02 M02-62224
INFLUENCE OF GAS FLOW PARAMETERS ON LAYER RESISTANCE WHEN SINTERING BY THE DRAFT METHOD 67-02 M02-62259
INFLUENCE OF PARTICLE SIZE ON SINTERING EFFICIENCY 67-04 M02-67426
INVESTIGATING THE STRENGTH OF SINTER IN RELATION TO ITS COOLING CONDITIONS 67-04 M02-68177
MECHANISM OF MINERAL FORMATION IN THE SINTERING OF FLUXED SINTER FROM A MIXTURE OF KRIVOI-ROG HEMATITE ORES AND FINE-GROUND MAGNETITE CONCENTRATE 67-04 M02-68178
TWO EXAMPLES OF COMPUTER USE IN THE IRON MAKING INDUSTRY 67-04 M04-66675
OBTAINING A STABILIZED GRADED SINTER AND USING IT FOR EXPERIMENTAL BLAST FURNACE MELTING 67-05 M02-69676
INFLUENCE OF COOLING METHODS ON QUALITY AND PROPERTIES OF SINTER 67-06 M02-71242
EXPERIMENTS IN HEAT TREATING SINTERS FROM THE ORES OF KURSK DEPOSITS 67-07 M02-73771
PRODUCING STABILIZED SCREENED SINTER AND CARRYING OUT BLAST-FURNACE TRIALS ON IT 67-07 M02-74062
INFLUENCE OF IGNITION CONDITIONS ON THE SINTERING OF AN IRON-ORE MIX ON THE SINTER BELT 67-07 M04-72896
EFFECT OF FUEL COARSENESS ON THE VALUE OF THE EXCESS AIR COEFFICIENT IN SINTERING 67-08 M02-74324

IRON ORES, SMELTING
COMPLEX PROCESSING OF ALUMINOUS IRON ORES 67-08 M04-75144

IRON ORES, STEEL MAKING
KINETICS OF MELTING OF STEEL SCRAP IN LARGE OPEN-HEARTH FURNACES 67-04 M04-66205

IRON ORES, TERNARY SYSTEMS
PHASE RELATIONS IN THE SYSTEM CAO-AL2O3-IRON OXIDE 67-10 M05-79601

IRON ORES, THERMODYNAMICS
THERMODYNAMIC DATA ON REDUCTION OF IRON FROM FERRO-MONTICELLITE 67-02 M15-61218

IRON ORES, WASTES
CASTING LINING TILES INTO PREHEATED SAND MOLDS 67-02 M05-61803

IRON ORES, X RAY ANALYSIS
QUANTITATIVE ANALYSIS BY X-RAY DIFFRACTION METHOD 67-01 M19-57914

IRON POWDER
SEE IRON

IRONMAKING
SIZED LIMESTONE FOR IRON ORE SINTERING 67-01 M02-57510
RELATION BETWEEN THE RATE OF DIRECT REDUCTION AND TOP GAS RATIO 67-01 M04-57907
CORRELATION STUDY OF A FULL-SCALE BLAST FURNACE TO AN EXPERIMENTAL FURNACE 67-01 M04-58103
THE EXPERIMENTAL FURNACE AT LIEGE 67-01 M04-58104
USE OF MANGANESE IN THE UKRAINIAN IRON AND STEEL INDUSTRY 67-01 M04-58288
SUPPLIERS TO THE INDUSTRY--IRONMAKING AT WORKINGTON IRON AND STEEL 67-01 M04-58593
ON THE MECHANISMS AND KINETICS OF HYDROGEN REDUCTION OF ILMENITE ORE 67-02 M02-60153
FUNDAMENTALS OF CALCULATING CUPOLA CHARGE COMPOSITION FOR UNALLOYED GRAY IRONS 67-02 M06-59080
GMELINS HANDBOOK OF INORGANIC CHEMISTRY. THE METALLURGY OF IRON 67-04 M04-67222
GMELINS HANDBOOK OF INORGANIC CHEMISTRY. METALLURGY OF IRONS 67-04 M04-67223
PRODUCTION OF FERRONICKEL WITH HIGH NICKEL CONTENT 67-05 M04-68302
INVESTIGATION OF THE WORK OF GASES ACROSS THE HEIGHT AND RADIUS OF A BLAST FURNACE DURING BLOWING WITH NATURAL GAS 67-05 M04-68544
IRONMAKING WITHOUT A BLAST FURNACE 67-05 M04-69153
USE OF HIGH TOP PRESSURES AND WIND RATE WITH SINTER AND PELLET BURDENS 67-06 M04-72077
OPERATING PRACTICES REQUIRED TO OPTIMIZE BLAST FURNACE PERFORMANCE 67-06 M04-72078
DESIGN AND OPERATION OF A FLAME TEMPERATURE COMPUTER ON A BLAST FURNACE 67-06 M04-72079
BLAST FURNACE OPERATING RESULTS WITH A 95 PER CENT MILL SCALE BURDEN 67-06 M04-72080
INVESTIGATING THE WORK OF THE GAS UP AND ALONG A BLAST-FURNACE RADIUS DURING NATURAL-GAS INJECTION 67-07 M04-72455
THE OXYGEN SOLUBILITY IN UNDER-COOLED IRON MELTS 67-07 M04-72476
MAKING MOLTEN IRON WITHOUT COKE 67-08 M04-74359
NEW PROCESS FOR IRON PRODUCTION IN A REACTOR 67-08 M04-75398
IRONMAKING TOMORROW 67-09 M04-76385
THE USE OF PREREDUCED MATERIALS IN THE ELECTRIC IRONMAKING FURNACE. PT. 2 67-09 M04-76395
CURRENT METHODS FOR THE PRODUCTION OF PREREDUCED MATERIALS. PT. 4 67-09 M04-76397

IRONMAKING, AUTOMATION
STATISTICAL FORECASTING OF LADLE IRON CHEMISTRY 67-08 M04-74887

IRONMAKING, MATHEMATICAL MODELS
PROCESS SIMULATION AND CONTROL IN IRON AND STEELMAKING 67-01 M04-57901

IRONWORKS
SEE IRON AND STEEL PLANTS

IRRADIATION
DETERMINATION OF URANIUM SURFACE-CONCENTRATION OF COATED PARTICLES 67-01 M16-58232
ACTIVATION OF GOLD SPHERES AND FOILS IN NONISOTROPIC NEUTRON INCIDENCE 67-01 M16-58587
FORMATION OF SIO2 FILMS BY OXYGEN-ION BOMBARDMENT 67-02 M14-59073
CHARACTERISTICS OF IRRADIATION AND THERMAL TREATMENTS OF WHITE CAST IRON 67-02 M14-60858
EFFECTS OF NEUTRON IRRADIATION AND VACUUM ANNEALING ON OXIDE FILMS ON ZIRCONIUM 67-02 M16-59025
ELIMINATION OF DEFECTS IN AL IRRADIATED BY FAST NEUTRONS 67-02 M16-60745
IRRADIATION OF HEUSLER ALLOYS 67-02 M16-61116
EFFECTS OF IRRADIATION AND ENVIRONMENT ON THE MECHANICAL PROPERTIES AND HYDROGEN PICKUP OF

ZIRCALOY 67-02 M17-59026
EFFECT OF IRRADIATION ON THE IMPACT PROPERTIES OF HYDRIDED ZIRCALOY-2 AND ZIRCONIUM-NIOBIUM ALLOY 67-02 M17-59027
INFLUENCE OF NEUTRON IRRADIATION ON THE CREEP OF ZIRCALOY-2 AT 300 C 67-02 M17-59028
EFFECT OF NEUTRON IRRADIATION ON TENSILE PROPERTIES OF THE ZIRCONIUM-2.5 WEIGHT PER CENT NIOBIUM ALLOY 67-02 M17-59029
MODULUS EFFECTS IN METALS AFTER LOW TEMPERATURE ELECTRON IRRADIATION. PT. 2. AU 67-02 M17-60628
EFFECTS OF RADIATION ON THE OXIDATION AND HYDROGEN ABSORPTION OF ZIRCONIUM ALLOYS IN STEAM 67-02 M18-59024
CORROSION OF ZIRCALOY-2 BY HYDROGEN PEROXIDE AT ELEVATED TEMPERATURE 67-02 M18-59452
LOW-TEMPERATURE DIFFUSION IN INERT-GAS BOMBARDED AL2O3 67-03 M14-65851
ON THE EFFECT OF TIO2 ADDITIONS ON SINTERING OF UO2 67-03 M14-65857
EFFECTS OF IRRADIATION IN BERYLLIUM 67-03 M16-65263
LOW-TEMPERATURE GAMMA IRRADIATION AND ANNEALING OF INDIUM ANTIMONIDE 67-03 M16-65629
STUDY OF N- AND P-TYPE SILICON EXPOSED TO HIGHLY ENERGETIC RADIATION 67-03 M16-65741
DEFECT-IMPURITY RELATIONSHIPS IN ELECTRON-DAMAGED SILICON 67-03 M16-65742
EFFECTS OF OXYGEN AND DOPANT ON LIFE-TIME IN NEUTRON-IRRADIATED SILICON 67-03 M16-65743
EVIDENCE FOR A HELICAL CRYSTALLOGRAPHIC TEXTURE IN URANIUM BARS OF MAGNOX CLAD FUEL ELEMENTS 67-03 M16-65854
RADIATION DAMAGE IN INCOLOY-800 67-03 M17-65018
THE PLASTIC BEHAVIOR OF BERYLLIUM AND SOME OTHER METALS 67-03 M17-65236
STUDIES OF IRRADIATION EFFECTS ON SWEDISH STEELS 67-03 M17-65685
FRACTURE OF SILICON AND GERMANIUM INDUCED BY PULSED ELECTRON IRRADIATION 67-03 M17-65744
STRUCTURAL TRANSFORMATION IN A NICKEL-CHROMIUM ALLOY --80 NI/20 CR-- UNDER IRRADIATION. PT. 2 67-03 M17-65856
DETERMINATION OF THE ROLE OF PILE IRRADIATION ON THE PLASTIC DEFORMATION OF AN EXTRA-MILD STEEL BY THE MEASURE OF ACTIVATION VOLUME 67-03 M17-65859
ACTIVATION ANALYSIS OF CERTAIN METALLOIDS IN THE TRACE CONDITION IN ULTRAPURE BERYLLIUM 67-03 M19-65250
ELECTRON MICROSCOPE OBSERVATIONS OF GAS BUBBLES IN NEUTRON IRRADIATED AL-LI ALLOYS 67-04 M13-66603
RADIATION-ENHANCED DIFFUSION IN METALS 67-04 M14-67315
ANNEALING OF NEUTRON-IRRADIATION-INDUCED CHANGES IN IMPURITY CONDUCTION IN ANTIMONY-DOPED GERMANIUM 67-04 M16-66787
SMALL-ANGLE CRITICAL MAGNETIC SCATTERING OF NEUTRONS IN IRON 67-04 M16-67792
POSTIRRADIATION CREEP AND STRESS RUPTURE OF HASTELLOY N 67-04 M16-68120
INTERNAL FRICTION PEAKS IN DEUTERON-IRRADIATED TUNGSTEN 67-04 M17-66056
EMBRITTLEMENT OF NEUTRON-IRRADIATED 20CR-25NI-NB AUSTENITIC STEEL AT 650 C 67-04 M17-66991
THE MECHANISM OF RADIATION-HARDENING OF FCC METALS BY FAST NEUTRONS 67-04 M17-67313
HARDENING IN MILD STEEL AT HIGHER IRRADIATION TEMPERATURES 67-04 M17-67414
THICKNESS DETERMINATION OF THIN FILMS BY ELECTRON PROBE MICROANALYSIS 67-04 M19-67263
A KINETIC APPROACH TO INTERSTITIAL CLUSTERING IN NEUTRON IRRADIATED METALS 67-05 M13-68297
VOIDS AT DISLOCATIONS IN IRRADIATED TUNGSTEN 67-05 M13-69224
ADIABATIC CALORIMETER TO MEASURE THE STORED ENERGY OF ALUMINUM AFTER NEUTRON IRRADIATION AT 4.6 K 67-05 M15-68337
INFLUENCE OF MG ON THE RECOVERY OF AL IRRADIATED WITH FAST NEUTRONS AT 78 K 67-05 M15-69336
INTERSTITIAL DISLOCATION LOOPS IN NEUTRON IRRADIATED COPPER 67-05 M16-68298
DIFFUSION IN DOPED UO2 67-05 M16-68348
FISSION-GAS RELEASE FROM UO2 DURING IRRADIATION UP TO 2000 C 67-05 M16-68349
MIGRATION OF XENON THROUGH A UO2 MATRIX CONTAINING TRAPPING SITES 67-05 M16-68351
THE INFLUENCE OF IRRADIATION TEMPERATURE ON THE DAMAGE STRUCTURE IN NEUTRON-IRRADIATED MOLYBDENUM 67-05 M16-68690
DECREASE OF BUILT-IN VOLTAGE IN TUNNEL DIODES CAUSED BY IRRADIATION 67-05 M16-69294
STEELS IN NUCLEAR ENGINEERING 67-05 M17-69545
METHOD OF LEACHING BAUXITES 67-06 M02-70933
DISLOCATION ARRANGEMENT AND STRENGTHENING IN STAGE 2 IN PLASTICALLY DEFORMED GOLD SINGLE CRYSTALS 67-06 M13-71021
EFFECT OF FISSION FRAGMENTS ON THE MICROSTRUCTURE OF AN AUSTENITIC STAINLESS STEEL 67-06 M14-70891
INVESTIGATION OF THE DESORPTION OF GASES FROM METAL SURFACES UNDER THE ACTION OF ELECTRON BOMBARDMENT 67-06 M14-72036
UO2/SHEATH HEAT TRANSFER DURING IRRADIATION 67-06 M15-70713
SURFACE BLISTERING OF METALS DUE TO LOW ENERGY HYDROGEN BOMBARDMENT 67-06 M16-70612
IRRADIATION DAMAGE TO SINTERED BERYLLIUM OXIDE AS A FUNCTION OF FAST-NEUTRON DOSE AND FLUX AT 110, 650 AND 1100 C 67-06 M16-70706
PERFORMANCE OF PYROLYTIC CARBON-COATED URANIUM OXIDE PARTICLES DURING IRRADIATION AT HIGH TEMPERATURE 67-06 M16-71054
IRRADIATION BEHAVIOR OF URANIUM FUEL TUBES IN A PRESSURIZED HEAVY-WATER REACTOR 67-06 M16-71055
ON THE MICROSTRUCTURE OF UO2 PELLETS IRRADIATED AT HIGH TEMPERATURE 67-06 M16-71239
NEUTRON IRRADIATION AND THE YIELD SURFACES OF COPPER 67-06 M16-71716
EFFECT OF LOW-TEMPERATURE DEUTERON IRRADIATION ON SOME TYPE-2 SUPERCONDUCTORS 67-06 M16-71789
MECHANICAL PROPERTIES OF NEUTRON-IRRADIATED PYROLYTIC CARBONS 67-06 M17-70887
THE IDENTIFICATION OF SMALL QUANTITIES OF MATERIAL BY EXO ELECTRONS 67-06 M19-72143
AN A-C ELECTRON BOMBARDMENT TECHNIQUE FOR VACUUM DEPOSITION OF CARBON 67-07 M12-72809
HIGH TEMPERATURE TENSILE PROPERTIES OF NEUTRON IRRADIATED 20 CR-35 NI AUSTENITIC STEEL 67-07 M13-73853
THE EMBRITTLEMENT OF OXIDE FILMS ON ZIRCONIUM BY NEUTRON IRRADIATION 67-07 M13-74234
RECOVERY OF DEFECTS IN NEUTRON-IRRADIATED TUNGSTEN 67-07 M14-73382
THE SPECTRUM OF THE MAGNETIC AFTER-EFFECT IN NEUTRON-IRRADIATED NI SINGLE CRYSTALS 67-07 M15-73558
THE EFFECT OF NEUTRON IRRADIATION ON SOME MECHANICAL PROPERTIES OF DIAMOND. PT. 2. THE POLISHING OF DIAMOND 67-07 M16-73831
CALCULATIONS AND MEASUREMENTS OF THE QUANTITIES OF HELIUM PRODUCTS BY REACTIONS IN IRRADIATED BERYLLIUM 67-07 M16-74238
LOW-TEMPERATURE EMBRITTLEMENT OF IRON, IRON ALLOYS, AND STEELS BY NEUTRON IRRADIATIONS 67-07 M17-73379
EFFECT OF IRRADIATION ON BEND TRANSITION TEMPERATURES OF MOLYBDENUM- AND COLUMBIUM-BASE ALLOYS 67-07 M17-73380
EFFECTS OF IRRADIATION IN AUSTENITIC STEELS AND OTHER HIGH-TEMPERATURE ALLOYS 67-07 M17-73384
STRESS RELAXATION IN NEUTRON IRRADIATED COPPER SINGLE CRYSTALS 67-07 M17-73901
THE PRODUCTION OF ULTRAPURE STEELS IN ELECTRONIC BOMBARDMENT FURNACES 67-08 M04-75839
PHYSICAL CHARACTERIZATION OF MO SINGLE CRYSTALS FOR IRRADIATION EXPERIMENTS 67-08 M14-75994
SINGULARITIES OF RADIATION-HEAT TREATMENT OF WHITE CAST IRON 67-08 M14-76116
HARDENING IN IRRADIATED COPPER CRYSTALS 67-08 M16-75240
THE INFLUENCE OF IRRADIATION TEMPERATURE ON THE DAMAGE STRUCTURE IN NEUTRON-IRRADIATED MOLYBDENUM 67-08 M16-76205
WEAKENING EFFECT OF NEUTRON IRRADIATION ON CAST IRON 67-08 M17-74549
STUDY OF THE MECHANISM OF PLASTIC DEFORMATION IN UNIRRADIATED AND IRRADIATED LOW CARBON STEEL 67-08 M17-74566
THE EFFECT OF NEON BOMBARDMENT ON THE CORROSION OF ZR 67-08 M18-74792
REFRACTORY MATERIALS IN ATOMIC PILES 67-08 M20-75798

IRRADIATION

THE INFLUENCE OF NEUTRON RADIATION UPON PLUTONIUM CONTAINING SOLIDS 67-09 M16-76352
IRRADIATION BEHAVIOR OF PLUTONIUM ALLOY FUELS FOR FAST REACTORS 67-09 M16-76353
THE IRRADIATION BEHAVIOUR OF PLUTONIUM-URANIUM MONOCARBIDE 67-09 M16-76354
IRRADIATION BEHAVIOUR OF SOLID SOLUTION URANIUM-PLUTONIUM MONOCARBIDES AT HIGH BURNUPS 67-09 M16-76355
IRRADIATION PROPERTIES OF HIGH ENERGY RATE PNEUMATICALLY-IMPACTED UO2-PUO FUELS 67-09 M16-76356
IRRADIATION TESTING OF UO2-PUO2 FUELS 67-09 M16-76357
FISSION GAS RELEASE FROM MIXED OXIDE FUELS 67-09 M16-76358
SMALL VACANCY DISLOCATION LOOPS IN NEUTRON-IRRADIATED COPPER 67-09 M16-76597
EFFECT OF NEUTRON IRRADIATION ON THE PROPERTIES OF TITANIUM AND CHROMIUM CARBIDES 67-09 M16-76927
RADIATION EFFECTS IN STRUCTURAL MATERIALS 67-09 M16-77321
INFRARED ABSORPTION OF THE GAMMA-INDUCED SURFACE LAYER ON GERMANIUM 67-09 M16-77437
PREPARATION OF HOMOGENEOUS N-TYPE INSB BY THERMAL-NEUTRON IRRADIATION 67-09 M16-77450
EJECTION OF URANIUM ATOMS FROM SINTERED UO2 67-09 M16-77476
CLUSTERING IN AL-G. P. ZONE ALLOYS AFTER LOW TEMPERATURE IRRADIATION 67-09 M16-77937
ON THE NATURE OF RECOVERY STAGE 3 IN IRRADIATED AL 67-09 M16-77938
THE DISTRIBUTION OF AND SWELLING PRODUCED BY FISSION GAS BUBBLES IN ALPHA AND BETA URANIUM IRRADIATED UNDER LOW STRESS 67-09 M16-78257
THE EFFECT OF IRRADIATION ON THE HIGH TEMPERATURE FRACTURE OF STAINLESS STEEL 67-09 M17-78265
ELECTRON METALLOGRAPHY OF PRECIPITATES IN IRRADIATED AND UNIRRADIATED STAINLESS STEEL 67-09 M19-76636
TREAT MELTDOWN OF IRRADIATED METALLIC FAST-REACTOR FUEL IN AN INERT ATMOSPHERE 67-10 M16-78727
THE INFLUENCE OF PYROLYTIC-CARBON CREEP ON COATED-PARTICLE FUEL PERFORMANCE 67-10 M16-78728
ELECTRONS, NEUTRONS AND PROTONS IN ENGINEERING 67-11 M01-81101
STUDY OF ELONGATION VARIATIONS OF ALPHA PLUTONIUM BY SELF-IRRADIATION AT 4 K 67-11 M14-80606
URANIUM AND THORIUM OXIDES 67-11 M15-80462
DENSITY DETERMINATION OF REFRACTORIES BY MEASUREMENT OF GAMMA-RADIATION ABSORPTION 67-11 M15-81556
THERMOLUMINESCENT STUDY OF THE COLOR CENTERS IN IRRADIATED POLYCRYSTALLINE MGO 67-11 M15-81686
CHANGES PRODUCED IN THERMOELECTRIC MATERIALS BY THERMAL-NEUTRON IRRADIATION 67-11 M16-80304
EFFECT OF TEMPERATURE ON THE PENETRATION OF HEAVY KEV IONS IN MONOCRYSTALLINE SOLID. PT. 1. XE133 IONS IN GOLD 67-11 M16-80322
EFFECT OF TEMPERATURE ON THE PENETRATION OF HEAVY KEV IONS IN MONOCRYSTALLINE SOLIDS. PT. 2. VARIOUS IONS IN GOLD, ALUMINUM, AND TUNGSTEN 67-11 M16-80323
EFFECT OF FAST NEUTRON IRRADIATION AT LOW TEMPERATURE ON NBZR COIL PERFORMANCE 67-11 M16-80335
URANIUM CARBIDES, NITRIDES, PHOSPHIDES AND SULFIDES 67-11 M16-80463
BASIC STUDIES OF IRRADIATION EFFECTS IN FUEL MATERIALS 67-11 M16-80465
GRAPHITE 67-11 M16-80466
BERYLLIUM OXIDE 67-11 M16-80468
DISPERSION AND NONMETALLIC POISON MATERIALS 67-11 M16-80470
RADIATION EFFECTS IN NONFUEL MATERIALS 67-11 M16-80472
ELECTRON IRRADIATION OF PURE AND ALLOYED ALUMINUM ABOVE STAGE I 67-11 M16-80780
INELASTIC ENERGY LOSSES IN COLLISIONS OF 40-90 KEV A PLUS IONS WITH SOLID AND GASEOUS CU TARGETS 67-11 M16-80935
DIFFUSIONAL PROPERTIES OF THE STAGE-3 DEFECT IN COPPER. PT. 1. EXPERIMENTAL RESULTS 67-11 M16-81080
DIFFUSIONAL PROPERTIES OF THE STAGE-3 DEFECT IN COPPER. PT. 3. BULK DIFFUSION 67-11 M16-81082
SCATTERING OF 5-40 KEV PROTONS BY MOLYBDENUM SINGLE CRYSTALS 67-11 M16-81371
EFFECTS OF ELECTRON IRRADIATION ON THE THERMAL CONDUCTIVITY OF N-AND P-TYPE GERMANIUM 67-11 M16-81485
INFLUENCE OF THE NATURE OF ADDITION ELEMENTS ON ELIMINATION OF DEFECTS IN ALUMINUM SUBJECTED TO NEUTRON IRRADIATION AT 78 K 67-11 M16-81562
NEUTRON-INDUCED TYPE CHANGES IN P-TYPE SILICON 67-11 M16-81691
MICROHARDNESS OF IRRADIATED BERYLLIUM OXIDE 67-11 M17-80631
EXTREMES IN ENVIRONMENTAL TESTING 67-11 M17-81239
RADIOACTIVITY TECHNIQUES IN TRACE CHARACTERIZATION 67-11 M19-80137
X-RAY RADIATION IN ELECTRON BEAM WELDING INSTALLATIONS 67-12 M11-81913
ON THE NATURE OF DAMAGES IN INDIUM ANTIMONIDE PRODUCED BY GAMMA- AND X-IRRADIATION 67-12 M16-82019
DAMAGE FORMATION RATES IN GE SUBJECT TO THERMAL TREATMENT 67-12 M16-82020
VAPORIZATION OF FISSION PRODUCTS FROM IRRADIATED FUELS. PT. 1. EXPERIMENTAL METHOD AND GENERAL FISSION-PRODUCT BEHAVIOR 67-12 M16-82698
DEPENDENCE OF RADIATION DEFECT DENSITY IN STEEL ON THE ENERGETIC SPECTRUM OF NEUTRONS 17-22 67-12 M16-83363
SOME EFFECTS OF NEUTRON IRRADIATION ON MARAGING STEEL 67-12 M17-82768
SOME EFFECTS OF PROTON, ELECTRON, AND NEUTRON IRRADIATION ON THE FATIGUE PROPERTIES OF COPPER SINGLE CRYSTALS 67-12 M17-82971
RESEARCH INTO THE PROPERTIES OF THE ML5 CAST INDUSTRIAL ALLOY IRRADIATED WITH NEUTRONS 67-12 M17-83371

IRRADIATION, CORROSION EFFECTS
IRRADIATION EFFECTS ON HIGH-TEMPERATURE REACTOR STRUCTURAL METALS 67-07 M18-73381

IRRADIATION, NEUTRONS
EFFECT OF IRRADIATION ON THE HIGH-STRAIN FATIGUE BEHAVIOUR OF A LOW-CARBON AND A LOW-ALLOY STEEL 67-06 M17-71334

ISOCYANATE PLASTICS
SEE POLYURETHANE RESINS

ISOCYANATE RESINS
SEE POLYURETHANE RESINS

ISOMERIZATION
ISOMER SHIFTS ON SN119 IMPURITY NUCLEI IN PD-H ALLOYS 67-07 M16-73705
MOSSBAUER STUDY OF THE FE-MN CARBIDES --FE1-XMNX--3C AND --FE1.1MN3.9--C2 67-12 M16-82005

ISOMERS /MOLECULAR/, MOSSBAUER EFFECT
EFFECT OF IMPURITIES ON ISOMER SHIFTS IN METALLIC TIN 67-05 M16-69023

ISOMERS /MOLECULAR/, RADIATION EFFECTS
INTERPRETATION OF ISOMER SHIFTS OF GAMMA RADIATION OF IMPURITY NUCLEI SN119 AND AU197 IN METALLIC SOLID SOLUTIONS 67-06 M16-71928

ISOSTATIC PRESSING
CERAMIC PARTS 67-02 M05-61100
THE BIG SQUEEZE MAKES METALS ACT IN NEW WAYS 67-02 M07-61002
POWDER METALLURGY EQUIPMENT MANUAL. PT. 2. COMPACTING PRESSES AND TOLLING 67-02 M09-61001
HIGH-PRESSURE FORMING FOR PRODUCTION 67-02 M09-61107
FABRICATION OF COMPLEX BERYLLIUM SHAPES BY GAS-PRESSURE COMPACTION 67-03 M09-65292
FABRICATION OF COMPLEX BERYLLIUM SHAPES BY GAS-PRESSURE COMPACTION 67-04 M09-67197
PROPERTIES OF GAS-PRESSURE-CONSOLIDATED BERYLLIUM POWDER 67-04 M09-67884
ISOSTATIC PRESSING EXTENDS POWDER METAL HORIZONS 67-05 M09-68305
IMPROVED COMPACTING METHODS GIVE BETTER POWDER PARTS 67-05 M09-69444
A BREAKTHROUGH IN THE MAKING 67-06 M09-70679
THE COMPACTION OF METAL POWDERS 67-07 M09-73859
ISOSTATIC PRESSING OF POWDERED MATERIALS 67-07 M09-73860
NEW METHODS FOR THE CONSOLIDATION OF METAL POWDERS. V 1. PERSPECTIVES IN POWDER METALLURGY 67-07 M09-73873
BENCH SCALE ISOSTATIC PRESSING 67-08 M09-75525

SINTERED TURBINE BLADES FOR ARDUOUS TEMPERATURE AND STRESS CONDITIONS 67-10 M09-79794

ISOTHERMAL ANNEALING
STUDY OF IRON-NICKEL ALLOYS CLOSE TO NI3FE IN COMPOSITION. ORDERED STRUCTURE AS A FUNCTION OF HEAT TREATMENT 67-01 M14-57168
ISOTHERMAL TRANSFORMATION OF AUSTENITE IN ANNEALED MAGNESIUM IRON 67-01 M14-57468
PRECIPITATION PROCESSES IN ALNICO 67-01 M14-58661
THEORETICAL STUDY OF TYPICAL CHANGES OF THREE-PHASE REACTIONS IN TERNARY SYSTEMS 67-02 M13-60750
ISOTHERMAL ANNEALING STUDIES ON VACANCY AND INTERSTITIAL LOOPS IN SINGLE CRYSTAL GRAPHITE 67-02 M14-60813
STRUCTURAL INVESTIGATIONS ON PRECIPITATION IN ALUMINIUM-ZINC-ALLOYS. PT. 1. MODIFICATION OF PRECIPITATION AT ROOM AND AT ELEVATED TEMPERATURES 67-02 M14-60875
ISOTHERMAL HEAT TREATMENT OF HIGH DUTY ALLOY CAST IRON 67-02 M14-61195
THE RECRYSTALLIZATION BEHAVIOR OF LOW-CARBON BASIC OXYGEN AND BASIC OPEN-HEARTH STEELS 67-04 M04-67905
STUDY OF THE ISOTHERMAL SOFTENING PROCESSES OCCURRING IN UNDOPED TUNGSTEN WIRE --0.38 MM-- 67-05 M13-69860
TRANSMISSION ELECTRON MICROSCOPIC STUDIES OF UNDOPED TUNGSTEN WIRE --0.38 MM-- ANNEALED ISOTHERMALLY AT 1180 C 67-05 M13-69861
STUDIES ON GRAPHITIZATION OF CONVENTIONALLY AND ISOTHERMALLY ANNEALED WHITE CAST IRONS 67-05 M14-69878
OBSERVATIONS ON THE ISOTHERMAL ANNEALING PROCESSES OCCURRING IN COLD DRAWN ALUMINUM-2WT PER CENT MAGNESIUM ALLOY 67-07 M14-72908
ISOTHERMAL MAGNETIC-ANNEALING EXPERIMENTS ON SUBSTITUTIONAL ALLOYS 67-07 M15-73508
THE PROCESS OF ESTABLISHING ORDER DURING ISOTHERMAL ANNEALS IN NI-SI --7 AT.PER CENT SI-- ALLOY 67-11 M14-80737
ANNEALING CHARACTERISTICS OF NICKEL ALLOY STEELS 67-12 M10-81810
SECONDARY HEATING IN THE WELDING OF VL-1D STEEL 67-12 M11-82312

ISOTHERMAL ANNEALING, ALLOYING EFFECTS
STUDY ON TRANSFORMATION FEATURES OF CARBURIZING CR-MO STEELS 67-01 M14-58309
INFLUENCE OF ADDITION OF AG OR CU ON THE FORMATION OF G-P ZONE IN AL-ZN ALLOY 67-02 M14-59750

ISOTHERMAL ANNEALING, WELDMENTS
CONCERNING THE SELECTION OF ADDITIONAL HEATING PARAMETERS FOR WELDED THIN SHEET VL-1D STEEL 67-07 M11-72733

ISOTHERMAL TREATMENT
SEE ALSO AUSTEMPERING
ISOTHERMAL ANNEALING
MARAGING
MARTEMPERING
PATENTING /METALLURGICAL/
ISOTHERMIC TREATMENT OF STEEL WIRE IN FURNACES WITH SALT BATHS 67-02 M10-60259
REVIEW OF EXISTING KNOWLEDGE ON TRANSFORMATIONS OF SUPERCOOLED AUSTENITE 67-02 M14-60287
HEAT TREATMENT AND MECHANICAL PROPERTIES OF 9 PER CENT NI-4 PER CENT CO STEELS 67-04 M01-68146
ISOTHERMAL QUENCHING OF BAINITIC TOOL STEELS 67-04 M10-66367
ISOTHERMAL QUENCHING OF BAND SAW LINKS 67-04 M10-66370
HEAT TREATMENT OF HIGH-COERCIVITY ALLOYS OF THE MAGNICO TYPE 67-04 M10-66379
SOFTENING HEAT TREATMENT OF LARGE MARTENSITIC STEEL FORGINGS 67-04 M10-67694
THE BAINITIC REACTION IN URANIUM-CHROMIUM ALLOYS 67-05 M14-69563
HEAT TREATMENT OF AK6 ALUMINUM ALLOY ARTICLES IN HOT MEDIA 67-06 M10-70353
EFFECT OF MARTENSITE ON THE KINETICS OF BAINITE FORMATION IN LOW ALLOY STEELS 67-06 M14-72151
ON THE TEMPERING BEHAVIOR OF 3CR-W, 3CR-W-CO AND 12CR-W-CO-TYPE TOOL STEELS FOR HOT WORK 67-06 M17-70584
ISOTHERMAL QUENCHING OF HIGH-STRENGTH CAST IRON WITH INDUCTION HEATING 67-09 M10-77412
CONSTITUTION, TTT CHARACTERISTICS AND HARDENABILITY OF A 0.3 PER CENT STEEL WITH AL ADDITIONS UP TO 2.45 PER CENT 67-10 M13-78334
DECOMPOSITION OF AUSTENITE IN CAST SILICON STEELS AT SUBCRITICAL TEMPERATURES 67-10 M14-79329
INFLUENCE OF THE PARTIAL MARTENSITIC TRANSFORMATION ON THE ISOTHERMAL TRANSFORMATION OF AUSTENITE 67-10 M14-80016
STEELS FOR PARTS ISOTHERMALLY ANNEALED TO BAINITE 67-11 M10-80969
ISOTHERMAL ANNEALING OF SAW CHAINS 67-11 M10-80972
HEAT TREATMENT OF HIGH-COERCIVITY ALLOYS OF THE MAGNICO TYPE 67-11 M10-80981
ISOTHERMAL TRANSFORMATION DIAGRAMS OF NICKEL ALLOY STEELS 67-12 M14-81809
THE EFFECT OF SILICON CONTENT ON THE SECONDARY RECRYSTALLIZATION OF SILICON-IRON 67-12 M14-82589
A COMPARISON--PLANE STRAIN FRACTURE TOUGHNESS AND THE ISOTHERMAL FLOW PROPERTIES OF A STRUCTURAL STEEL 67-12 M17-83130

ISOTOPE SEPARATION
CONCENTRATION OF THE LITHIUM ISOTOPE BY MEANS OF THE HAEFFNER EFFECT 67-12 M16-82146

ISOTOPES
SEE ALSO RADIOISOTOPES
CORRELATION COEFFICIENT AND THE ISOTOPE EFFECT FOR THE DIFFUSION OF ZINC IN SILVER 67-06 M14-69908
ISOTOPE EFFECT FOR THE DIFFUSION OF ZINC IN COPPER, AND ORDERED AND DISORDERED CUZN 67-06 M14-69909
DETERMINATION OF OXYGEN IN TITANIUM BY ISOTOPIC DILUTION 67-06 M19-69904

ISOTOPES, OPTICAL PROPERTIES
THE SPECTRA OF NI ISOTOPES 67-09 M15-77213

IZOD IMPACT TESTS
SEE IMPACT TESTS

JACKS /ELECTRICAL/
SEE ELECTRIC CONNECTORS

JAW CRUSHERS, WEAR
EFFECT OF HOLD-TIME AT HEAT PRIOR TO QUENCHING ON WEAR RESISTANCE 67-02 M17-61805
INFLUENCE OF SOAKING TIME PRIOR TO QUENCHING ON THE WEAR RESISTANCE OF MANGANESE STEEL G13L CASTINGS 67-09 M17-78077

JET AIRCRAFT
SEE JET PLANES

JET ENGINES
SEE ALSO TURBOJET ENGINES

JET ENGINES, CLEANING
DRY HONING RESTORES STEEL BLADES 67-05 M12-68470

JET ENGINES, COATING
PROTECTIVE COATINGS HELP TO EXTEND JET ENGINE PART LIFE 67-06 M12-70472

JET ENGINES, MACHINING
METAL SPINNING TOOLS UP FOR SPACE AGE JOBS 67-06 M08-70680

JET ENGINES, MATERIALS
AISI NO. 634 --PRECIPITATION HARDENING STAINLESS STEEL-- 67-04 M01-66323

JET NOZZLES, COATING
PROTECTIVE COATINGS HELP TO EXTEND JET ENGINE PART LIFE 67-06 M12-70472

JET PLANES
DUPLEX AGING--THE WAY TO STRONG, CORROSION RESISTANT ALUMINUM ALLOYS 67-08 M10-74495

JET PLANES, CASTINGS
SHELL MOLD CASTINGS RESIST HEAT AND CORROSION 67-05 M06-68424

JET PLANES, MATERIALS
HEAT TREATMENTS OF ALUMINUM ALLOYS 67-03 M10-65949

JET VANES
SEE GUIDE VANES

JETS /AIRPLANES/
SEE JET PLANES

JIGS
MAGNESIUM TOOLING--ALL SIGNS SAY GO 67-01 M20-57234

JIGS, MACHINING
AUTO DIES BY COMPUTER 67-03 M08-65943

JIGS /CONCENTRATORS/
RECOVERY OF CASSITERITE IN A RUOSS JIG 67-08 M03-74781

JOGS /DISLOCATIONS/
SEE DISLOCATION JOGS

JOINING

JOINING
CERAMIC PARTS 67-02 M05-61100
INTRICATE SHAPES BUILT UP FROM STACKED STAMPINGS 67-03 M11-65766
ADHESIVES TAKE BIG STEP AHEAD AS PARTNERS OF FASTENERS 67-05 M11-68810
COUPLING OF SINTERED BEARINGS 67-10 M11-79351
JOINTS
SEE ALSO BALL JOINTS
BOLTED JOINTS
BRAZED JOINTS
BUTT JOINTS
EDGE JOINTS
EXPANSION JOINTS
GLUED JOINTS
LAP JOINTS
PIPE JOINTS
RIVETED JOINTS
SOLDERED JOINTS
TEE JOINTS
TUBE JOINTS
UNIVERSAL JOINTS
WELDED JOINTS
JOINTS, BONDING
ADHESIVE BONDS IN AIRCRAFT AND SPACECRAFT MANUFACTURE 67-01 M11-58265
THE BEHAVIOR OF BONDED METAL JOINTS UNDER OSCILLATING LOADS 67-01 M17-58264
JOINTS, MECHANICAL PROPERTIES
STATIC AND REPEATED LOADING CHARACTERISTICS OF JOINTS IN BERYLLIUM STRUCTURES 67-03 M11-65293
THE CALCULATION OF ADHESIVE JOINTS OF METALS 67-05 M17-68938
JOINTS, POWDER METALLURGY
JOINING TECHNIQUES FOR SAP--CLAD NUCLEAR FUEL ELEMENTS 67-07 M11-73825
JOINTS, STRENGTH
SUMMARY AND DISCUSSION OF JOINT DESIGN DATA FOR BERYLLIUM AEROSPACE STRUCTURES 67-04 M17-67894
JOMINY TEST
INFLUENCE OF ARSENIC ON HARDENABILITY OF QUALITY CARBON STEEL 67-04 M17-66375
AUTOMATIC TESTING AND RECORDING OF JOMINY CURVES 67-04 M17-66886
THE SUITABILITY OF THE END QUENCH TEST AND THE TIME-TEMPERATURE-TRANSFORMATION DIAGRAM FOR THE PREDICTION OF THE HARDENING OF ROUND STEEL BARS 67-08 M10-75590
EFFECT OF ARSENIC ON THE HARDENABILITY OF HIGH-GRADE CARBON STEELS 67-11 M17-80977
HARDENABILITY OF NICKEL ALLOY STEELS 67-12 M17-81808
JOURNAL BEARINGS
DOMESTIC PRODUCTION OF SLEEVES AND BUSHINGS FOR MILL BEARINGS 67-01 M20-57915
JOURNAL BEARINGS, SURFACE PROPERTIES
SNAP 8 REACTOR BEARING DEVELOPMENT 67-05 M20-68940
JOURNAL BEARINGS, WEAR
THE EFFECTS OF SURFACE ROUGHNESS IN THE HYDRODYNAMIC LUBRICATION THEORY OF A SHORT JOURNAL BEARING 67-08 M17-75543
INFLUENCE OF LUBRICANT ADDITIVES ON WIRE-WOOL TYPE BEARING FAILURES WITH 12 PER CENT CHROMIUM STEEL JOURNALS 67-10 M17-79578
JUNCTION DIODE RECTIFIERS
SEE JUNCTION DIODES
RECTIFIERS
JUNCTION DIODES
SEE ALSO TUNNEL DIODES
JUNCTION DIODES, ELECTRICAL PROPERTIES
VAPOR PHASE GROWTH OF GALLIUM ARSENIDE MICROWAVE DIODES 67-02 M16-61501
NEGATIVE DIFFERENTIAL RESISTANCE AND INDUCTIVE EFFECTS IN SILICON CARBIDE 67-06 M16-71761
NEGATIVE DIFFERENTIAL RESISTANCE AND INDUCTIVE EFFECTS IN SILICON CARBIDE 67-06 M16-71919
JUNCTION TRANSISTORS, SURFACE PROPERTIES
SURFACE EFFECTS OF RADIATION ON SEMICONDUCTOR DEVICES 67-04 M16-66140
JUNCTIONS /ELECTRICAL/
SEE ALSO NPN JUNCTIONS
PN JUNCTIONS
PNP JUNCTIONS
SEMICONDUCTOR JUNCTIONS
JUNCTIONS /ELECTRICAL/, CRYSTAL GROWTH
NEW ASPECTS OF SOLUTION REGROWTH IN THE DEVICE TECHNOLOGY OF GALLIUM ARSENIDE 67-07 M16-72922
JUNGHANS ROSSI CASTING
SEE CONTINUOUS CASTING

KALDO CONVERTERS
THE STORA METHOD FOR REDUCING IRON ORE TO PIG IRON 67-01 M04-57509
OPERATION OF THE KALDO ON THE NORTH AMERICAN CONTINENT 67-03 M04-65516
ON THE LD-AC AND LD-KALDO PROCESSES 67-05 M04-68538
CONTROL OF DECARBURIZATION PROGRESS IN OXYGEN REFINING OF HOT METAL--CONTINUOUS DETERMINATION OF CARBON COMBUSTION RATIO IN KALDO PROCESS 67-06 M04-70820
THE METALLURGY OF THE LD-KALDO PROCESS 67-06 M04-71701
KALDO OPERATIONS AT PARK GATE 67-06 M04-72002
WEAR MEASUREMENTS ON THE LINING OF A KALDO CONVERTER 67-06 M05-70840
OPERATING A CONTINUOUS CASTING MACHINE 67-08 M04-74497
OPERATIONAL ASPECTS OF STEELMAKING AT DOMNARVET 67-09 M04-76422
OXYGEN STEELMAKING--SOME ASPECTS OF QUALITY 67-10 M04-79301
KALDO CONVERTERS, AUTOMATION
WORK ON KALDO PROCESS CONTROL AT DOMNARVET 67-08 M04-75516
KALDO FURNACES
SEE KALDO CONVERTERS
KALDO PROCESS
SEE KALDO CONVERTERS
KANIGEN COATINGS
SEE METAL COATINGS
NICKEL
KANIGEN NICKEL PLATING
SEE ELECTROLESS PLATING
NICKEL PLATING
KAOLIN, REFRACTORIES
HIGH-DENSITY REFRACTORIES FOR BLAST FURNACE MADE OF KAOLINE FROM THE NOVOSELITSK DEPOSITS 67-04 M05-66584
KAOLIN, TEMPERATURE MEASURING INSTRUMENTS
TIPS OF THERMOCOUPLES USED TO MEASURE MOLTEN ALUMINUM TEMPERATURES 67-04 M19-67528
KEGS
SEE BARRELS /CONTAINERS/
KEROSENE
SOME CHARACTERISTICS OF BLOWING VANADIUM IRON WITH OXYGEN WITH A FUEL ADDITIVE 67-12 M04-81708
KEROSINE
SEE KEROSENE
KERR ELECTRO OPTICAL EFFECT
PARTIAL REMAGNETIZATION OF THIN FERROMAGNETIC FILMS 67-04 M15-67663
FREE CARRIER ELECTRO-OPTICAL KERR EFFECT IN SEMICONDUCTORS 67-05 M16-69794
KERR MAGNETO OPTICAL EFFECT
MAGNETO-OPTICAL MEASUREMENTS AS A SOURCE OF INFORMATION ON THE ELECTRON STRUCTURE OF FERROMAGNETIC NICKEL 67-04 M15-67911
SPIN-ORBITAL INTERACTION AND MAGNETIC-OPTICAL KERR EFFECT IN FERROMAGNETIC METALS 67-04 M16-67387
SPIN-ORBIT INTERACTION AND DISPERSION OF THE MAGNETO-OPTICAL KERR EFFECT IN NICKEL 67-05 M15-68850
OPTICAL AND MAGNETO-OPTICAL PROPERTIES OF IRON AND COBALT 67-08 M15-74631
THE USE OF THE MAGNETO-OPTICAL KERR EFFECT FOR THE DETERMINATION OF MAGNETIZATION CURVES 67-11 M15-80230
KILLED STEELS
MANUFACTURING MEDIUM CARBON STEEL FROM HIGH PHOSPHORUS PIG IRON IN THE CONVERTER USING POWDERED LIME 67-04 M04-66204
KILLED STEELS, CASTING
ON THE CONTROL OF SOLID SKIN IN A RIMMED STEEL INGOT 67-02 M04-58843
QUALITY EVALUATION OF CORRUGATED VERSUS SMOOTH-WALLED MOLDS 67-03 M04-65528
THE TECHNOLOGICAL FEATURES OF THE HIGH-SPEED SIPHON TEEMING OF RIMMING AND SEMI-KILLED STEEL INGOTS 67-04 M04-67230
REFRACTORIES FOR LINING THE TUNDISH IN THE CONTINUOUS CASTING OF TUBE STEEL 67-05 M04-69085

TEMPERATURE CONDITIONS OF FORMATION OF THE TOP PARTS OF KILLED STEEL INGOTS 67-07 M04-73020
B.H.P. NEW CASTLE INGOT PRODUCTION BY BOTTOM PORUING 67-08 M04-76192
USING FEEDER HEADS WITH AN INTERNAL METALLIC HALL 67-09 M04-77627
FACTORS AFFECTING CRACK SENSITIVITY OF LOW-CARBON KILLED STEEL PLATE INGOTS AND METHODS TO IMPROVE THEIR SURFACE QUALITY 67-09 M04-78009
HOT TOPS WITH INNER METAL WALLS 67-11 M04-80915

KILLED STEELS, CHEMICAL ANALYSIS
MICROANALYSIS OF SULFIDE INCLUSIONS IN THE REGION OF AN INVERTED V SEGREGATE OF A STEEL INGOT 67-04 M19-67272
THE PROBLEMS OF HIGH OXYGEN CONTENT IN LIQUID STEEL AND POSSIBLE METHODS OF CONTROL 67-07 M19-73100

KILLED STEELS, CORROSION
THE BEHAVIOR OF PLAIN CARBON CONSTRUCTION STEELS AND FILLER MATERIALS WHEN SUBJECTED TO SAND EROSION AND CAVITATION IN HYDROTURBINE PLANTS 67-02 M18-59037

KILLED STEELS, CRYSTAL LATTICES
ON THE COLD ROLLING AND ANNEALING TEXTURES OF MILD STEEL SHEETS 67-01 M14-58737

KILLED STEELS, CRYSTALLIZATION
RECRYSTALLIZATION AND GRAIN STRUCTURE IN RIMMED AND ALUMINUM-KILLED LOW-CARBON STEEL 67-04 M14-66930

KILLED STEELS, DEFECTS
MECHANISM OF FORMATION OF CARBON MONOXIDE BLOWHOLES IN INGOTS DURING SOLIDIFICATION. PT. 1. STUDY OF SOLIDIFICATION STRUCTURES OF SEMIKILLED STEEL INGOTS 67-07 M14-72572

KILLED STEELS, EXTRUSION
HOW TO SELECT STEELS FOR COLD EXTRUSION 67-08 M07-74726

KILLED STEELS, FORGING
FORGING METALLURGY--STEEL. PT. 4. COLD FORGING 67-05 M07-69555

KILLED STEELS, GRAIN GROWTH
EFFECTS OF ALUMINIUM NITRIDE ON THE PROPERTIES OF STEEL 67-08 M14-74736

KILLED STEELS, HEAT TREATMENT
LOW-TEMPERATURE RECOVERY PRIOR TO RECRYSTALLIZATION OF AL-KILLED DEEP DRAWING STEEL 67-08 M14-74512
OPTIMIZATION OF THE SOAKING PIT PROCESS 67-12 M10-83171

KILLED STEELS, MECHANICAL PROPERTIES
A STUDY OF THE TOUGHNESS DIFFERENCES BETWEEN ALUMINUM-KILLED AND SEMIKILLED STEELS 67-01 M17-58461
NK-LTC ALUMINUM KILLED STEEL 67-02 M17-60037
STEEL GROWS WITH THE TRANSPORTATION INDUSTRY 67-03 M01-65623
MEASUREMENT OF STRAIN HARDENING AND PLASTIC STRAIN RATIO USING THE CIRCLE-ARC SPECIMEN 67-04 M17-66141
LONG-TERM RUPTURE STRENGTH OF ALLOYS AND PLASTICS FROM TENSILE STRENGTH AT ELEVATED TEMPERATURES 67-04 M17-66235
ALUMINUM-KILLED STEEL PLATES --NORMALIZED-- FOR LOW-TEMPERATURE SERVICES 67-04 M17-67516
EFFECT OF DEGREE OF DEOXIDATION AND THICKNESS OF ROLLED PRODUCT ON THE MECHANICAL PROPERTIES OF LOW-CARBON STEEL AND BRITTLE FRACTURE IN ELEMENTS OF METAL STRUCTURES 67-05 M17-68555
ON THE METHOD OF TESTING OF LOW-CARBON STEEL FOR ITS SENSITIVITY TO MECHANICAL AGING 67-05 M17-68745
EFFECT OF DEGREE OF DEOXIDATION AND THICKNESS OF ROLLED PRODUCT ON MECHANICAL PROPERTIES OF LOW CARBON STEEL AND THE OCCURRENCE OF BRITTLE FRACTURE IN METALLIC STRUCTURES 67-07 M17-72466
EFFECT OF THE STRAIN RATE ON THE PLASTIC SHEARING BEHAVIOR OF A MILD STEEL HOLLOW CYLINDER --STUDY ON THE DEPENDENCE OF MECHANICAL PROPERTIES OF METALS UPON THE STRAIN RATE. PT. 3. -- 67-07 M17-72523
MECHANICAL PROPERTIES OF STRUCTURAL STEELS PRODUCED FROM HIGH-PHOSPHORUS IRON IN THE BASIC OXYGEN FURNACE 67-07 M17-73012
EXPERIMENTAL DETERMINATION OF INTERNAL STRESSES IN BILAYER SHEET STEEL 67-08 M17-74584
THE TENDENCY TO BRITTLE FRACTURE OF COLD-WORKED STEEL AGED BY THE HEAT FROM WELDING 67-09 M17-77816
THE TESTING OF COLD ROLLED SHEET BY FUSION-CUP TEST ACCORDING TO DIN 50152 67-09 M17-78190
STUDY OF THE DEPENDENCE OF MECHANICAL PROPERTIES ON THE STRAIN RATE. PT. 4 67-09 M17-78227
THE EFFECT OF VARIOUS NB CONTENTS ON THE MECHANICAL PROPERTIES OF PLATES OF SEMIKILLED AND KILLED STEELS WITH YIELD STRENGTHS BETWEEN 36 AND 46 KG/MM2 67-10 M17-78645
THE PLASTIC ANISOTROPY RATIO R AND THE WORK HARDENING EXPONENT N IN RELATION TO THE DRAWABILITY OF SHEET METAL 67-11 M17-80716
SEMIKILLED STEEL ST.5 GSK WITH IMPROVED WELDABILITY IN PLACE OF KILLED STEEL ST.5K 67-12 M17-81875

KILLED STEELS, MELTING
VACUUM DEOXIDATION IN THE DEGASSING OF KILLED AND UNKILLED STEELS AT TAPPING 67-07 M04-72894

KILLED STEELS, METAL WORKING
NEW TECHNIQUES IN RIGID METAL CONTAINER MANUFACTURE 67-01 M08-57548
TESTING THE COLD WORKABILITY OF MILD STEEL THIN SHEETS 67-04 M17-67210
TORSION TESTING THE HOT WORKABILITY OF STEELS 67-06 M17-70980
PRODUCTION PROBLEMS INHERENT TO SURFACE CONDITIONS OF LOW-CARBON STEEL SHEET USED FOR DEEP DRAWING 67-09 M08-78004

KILLED STEELS, MICROSTRUCTURE
FORMATION OF EXTRA-AXIAL HETEROGENEITY IN INGOTS 67-04 M13-67606
EFFECT OF HEATING RATE ON RECRYSTALLIZATION AND ANISOTROPY IN ALUMINIUM-KILLED AND RIMMED SHEET STEELS 67-06 M14-71337
ANISOTROPY IN DRAWING STEELS 67-08 M13-74520

KILLED STEELS, NONDESTRUCTIVE TESTING
ATTENUATION OF LAMB WAVES AT ULTRASONIC FREQUENCIES IN STEEL AT HIGH TEMPERATURES 67-02 M19-60260
THE CHARGING OF SEMIKILLED STEEL INGOTS IN THE UPSIDE DOWN POSITION IN THE SOAKING PITS 67-06 M04-72292
BLOWHOLES IN ALUMINUM-KILLED NITROGEN-ALLOYED STEEL INGOTS AND WELDING-UP OF BLOWHOLES BY ROLLING 67-06 M19-72395

KILLED STEELS, PHASE TRANSFORMATIONS
INVESTIGATION OF SOLIDIFICATION IN INGOTS 67-09 M14-77344

KILLED STEELS, POURING
TEMPERATURE CYCLES OF INGOT MOLDS DURING USE. PT. 1. DETERMINATION OF TEMPERATURE CYCLES OF INGOT MOLDS MOUNTED ON BOGIES 67-06 M04-71823

KILLED STEELS, PRECIPITATION HARDENING
THE FERRITE STRENGTHENING MECHANISM ON THE HEATING OF A CAST CARBON STEEL INOCULATED WITH ALUMINIUM 67-05 M14-68251

KILLED STEELS, REACTIONS /CHEMICAL/
HOW VARIOUS DEOXIDIZERS AFFECT BILLET QUALITY AND MECHANICAL PROPERTIES OF SEMIKILLED STEEL 67-06 M04-70909

KILLED STEELS, REFINING
RH DEGASSING UNIT FOR PLATE STEELS AT APPLEBY-FRODINGHAM 67-04 M04-67753
EFFECT OF THE AMOUNT OF ALUMINUM ADDED FOR DEOXIDATION ON THE QUANTITY OF NONMETALLIC INCLUSIONS IN KILLED STEELS 67-07 M04-72701
PRODUCTION OF ALUMINIUM-KILLED STEEL SHAPES FOR LOW TEMPERATURE SERVICES--NK-LTC 67-09 M04-77336
KINETICS OF THE REACTION OF REMOVAL OF HYDROGEN AND NITROGEN FROM LIQUID STEEL 67-09 M14-77354

KILLED STEELS, ROLLING
BASIC PRINCIPLES OF STEEL HEAT TREATMENT. PT. 6. CARBON STRUCTURAL STEELS 67-03 M07-65180

KILLED STEELS, STEEL MAKING
PRODUCTION OF AL-KILLED STEEL FOR LOW TEMPERATURE USES IN CONVERTER 67-01 M04-58561
USE OF MANGANESE-ALUMINUM ALLOYS IN THE PRODUCTION OF DEEP DRAWING ALUMINUM KILLED STEEL 67-03 M04-65537
EFFECT OF STEELMAKING VARIABLES ON THE ALUMINUM ANALYSIS OF DEEP DRAWING ALUMINUM KILLED STEELS 67-03 M04-65538
USE OF MOLD ADDITIONS FOR THE CONTROL OF DEEP-DRAWING ALUMINUM KILLED STEEL 67-03 M04-65539
USE OF FLUX ADDITIONS ON LOW-CARBON ALUMINUM-KILLED STEEL 67-03 M04-65540
IRON FOR STEELMAKING AT APPLEBY-FRODINGHAM 67-07 M04-72412

KILLED STEELS
USE OF EXOTHERMIC FERROALLOYS IN THE PRODUCTION OF LOW-ALLOY OXYGEN CONVERTER STEEL 67-08 M04-76271
IMPROVING THE QUALITY OF SEMIKILLED STEEL 67-08 M04-76272
IMPROVING THE QUALITY OF INGOTS BY PERFECTING THE CONFIUGRATION OF FEEDER HEADS 67-08 M04-76274
OPERATIONAL ASPECTS OF STEELMAKING AT DOMNARVET 67-09 M04-76422
USE OF EXOTHERMIC FERROALLOYS WHEN MELTING LOW ALLOY BASIC OXYGEN STEEL 67-10 M04-79264
IMPROVING THE QUALITY OF SEMI-KILLED OR BALANCED STEEL AT THE PETROVSKII WORKS 67-10 M04-79265
IMPROVING HOT TOP DESIGN FOR BETTER QUALITY INGOTS 67-10 M04-79267
KILLED STEELS, STRUCTURES /CRYSTALLINE/
ON THE FORMATION OF STRING GHOST IN KILLED STEEL INGOT 67-05 M04-69709
KILLED STEELS, SURFACE FINISHING
HOT METAL SCARFING MACHINE INCORPORATED IN PRODUCTION LINE OF BLOOMING MILL 67-04 M07-66213
KILLED STEELS, SURFACE PROPERTIES
QUALITY OF ALUMINUM-KILLED STEEL INGOTS 67-03 M04-65541
KILLED STEELS, WELDED JOINTS
FATIGUE STRENGTH OF WELDED JOINTS AT LOW TEMPERATURE 67-02 M17-60663
KILLED STEELS, WELDING
ON THE WELDING OF STEELS WITH LIMITED WELDABILITY. EXAMPLES FOR MATERIALS PROBLEMS 67-01 M11-58114
WELDED JOINTS OF LOW-TEMPERATURE STEELS IN THE CONSTRUCTION OF PRESSURE VESSELS 67-06 M11-70462
FIELD-FLANGED WELDED STEEL TUBING SLASHES COST OF CHEM-PLANT PIPING 67-06 M11-71200
WELD SURFACE DEFECTS--STRIKES, PITS AND SPATTER 67-07 M11-73306
KILLED STEELS, WIRE
ALUMINUM KILLED STEEL IMPROVES RIVET FORMABILITY AND QUALITY 67-06 M17-71138
KILNS
ON THE IMPROVEMENT OF REDUCTION BY ROTARY KILN 67-01 M02-57513
THE STORA METHOD FOR REDUCING IRON ORE TO PIG IRON 67-01 M04-57509
CURRENT METHODS FOR THE PRODUCTION OF PREREDUCED MATERIALS. PT. 4 67-09 M04-76397
HEAT CONSUMPTION IN ALUMINUM OXIDE CALCINING KILN 67-12 M03-82831
KILNS, REFRACTORIES
REFRACTORIES FOR LINING MAGNETIC ORE ROASTING KILNS 67-06 M05-71871
KINEMATICS
KINEMATIC AND FORCE PARAMETERS OF HELICAL CROSS ROLLING UNDER VARIOUS CONDITIONS OF DEFORMATION 67-08 M07-75015
KINEMATOGRAPHY
SEE CINEMATOGRAPHY
KINETICS
SEE ALSO GAS DYNAMICS
REACTION KINETICS
KINETICS OF COMPLEX DEFECT ANNEALING IN SILICON 67-01 M16-57953
KINETICS OF EXTRACTION OF AL2O3 FROM SINTER IN COUNTERFLOW LEACHING APPARATUS 67-02 M03-59192
REDUCTION OF U3O8 WITH SOLID CARBON 67-02 M03-60545
STUDY OF THE ESTABLISHMENT OF ORDER KINETICS OF IRON-NICKEL ALLOYS BY MEASURING RESISTANCE 67-02 M14-62295
KINETICS AND ACTIVATION ENERGY OF OXIDATION OF ALLOYS IN THE NB-V-TI SYSTEM 67-02 M18-60099
OXIDATION MECHANISM OF ZIRCONIUM-COPPER ALLOYS IN CARBON DIOXIDE AT HIGH TEMPERATURES 67-02 M18-62191
THE KINETICS OF SESSILE-DROP SPREADING IN REACTING METAL-METAL SYSTEMS 67-03 M15-65080
KINETICS OF BOILING AND CRYSTALLIZATION OF LOW CARBON RIMMING STEEL DURING CONTINUOUS CASTING 67-06 M04-70111
KINETICS OF SOLUTE-ENHANCED DIFFUSION IN DILUTE FACE-CENTERED-CUBIC ALLOYS 67-06 M14-69910
ENERGY AND KINETIC PARAMETERS OF NITROGEN IMPURITY IN SILICON CARBIDE CRYSTALS 67-06 M16-71769
KINETICS, IMPURITY EFFECTS
IMPURITY EFFECTS ON HETEROGENEOUS NUCLEATION FROM THE VAPOR.. SELENIUM ON GLASS 67-06 M14-70974
KLYSTRONS
HIGH GRADE CERAMICS FOR MICROWAVE AND OTHER APPLICATIONS 67-03 M20-65715
KNIGHT SHIFT
V51 KNIGHT SHIFT IN THE V3SI TYPE OF COMPOUNDS IN THE NORMAL STATE 67-11 M16-81391
KNOOP HARDNESS TESTS
THE ANISOTROPY OF KNOOP HARDNESS IN UNALLOYED TITANIUM SHEET 67-11 M17-80683
THE KNOOP-HARDNESS YIELD LOCI FOR TWO TITANIUM ALLOYS 67-12 M17-82770
KNUDSEN GAGES
KNUDSEN CELL STUDIES OF THE VAPORIZATION OF GADOLINIUM AND GADOLINIUM DICARBIDE 67-11 M15-81555
KOLD CASTING
SEE INVESTMENT CASTING
KRUPP RENN PROCESS
MODEL TESTS ON THE KRUPP MINIMUM GAS PROCESS AS APPLIED TO THE OXYGEN-BLOWN CONVERTER 67-04 M04-66295
ROLE OF SLAG IN SPONGE IRON-MAKING 67-11 M04-81639
KRYPTOL ELECTRIC FURNACES
SEE ELECTRIC FURNACES
KRYPTON, RADIOISOTOPES
KRYPTONATES.. A NEW TECHNIQUE FOR THE DETECTION OF WEAR 67-07 M19-74027

LACQUERING
CONTINUOUS ANODIZING AND LACQUERING LINES FOR ALUMINUM STRIPS 67-01 M12-57461
LACQUERING, COATING AND LAMINATION OF WIDE STRIP 67-01 M12-58111
PRACTICAL TECHNIQUES FOR EFFICIENT LUBRICATION USING FRICTION-RESISTANT LACQUERS 67-01 M12-58386
CONTINUOUS LACQUERING OF GALVANIZED STEEL BANDS 67-02 M12-60140
PICKLING OF SHEETS FOR SUBSEQUENT LACQUERING, BASE ENAMELING AND DIRECT-WIRE ENAMELING 67-05 M12-69341
NOMOGRAPHS FOR LACQUERING THE INTERIOR OF STEEL PIPES 67-08 M12-74931
ELECTROPHORESIS--AN IMPROVED LACQUERING TECHNIQUE 67-10 M12-79799
LACQUERS, LUBRICANTS
PRACTICAL TECHNIQUES FOR EFFICIENT LUBRICATION USING FRICTION-RESISTANT LACQUERS 67-01 M12-58386
LADLE LININGS
THE USE OF ZIRCON BRICK IN STEELPLANT LADLES 67-06 M04-72285
STOPPER-TYPE STEEL LADLES LINED WITH CHEMICALLY HARDENING MIXTURE 67-07 M04-74137
LADLES
THE ASEA-SKF DEGASSING PROCESS 67-07 M04-73328
POROUS PLUG FOR CARBURIZING AND DESULFURIZING MOLTEN FE IN FOUNDRY LADLES 67-11 M06-80387
LADLES, DESIGN
SPECIFICATIONS FOR DESIGN OF LADLES--AISE STANDARD NO. 9 67-12 M04-82930
LADLES, STEEL MAKING
POURING RATE AND NOZZLE WEAR OF STEEL PLANT LADLES 67-07 M04-73241
THE DRYING OF STEEL-PLANT CASTING LADLES 67-10 M04-79718
LAGGING /INSULATION/
SEE INSULATION
LAMB WAVES
ATTENUATION OF LAMB WAVES AT ULTRASONIC FREQUENCIES IN STEEL AT HIGH TEMPERATURES 67-02 M19-60260
EXCITATION OF LAMB WAVES IN THICK PLATES BY ULTRASONIC IMPULSES 67-03 M19-65602
EXCITATION CONDITIONS FOR LAMB WAVES IN THICK PLATES BY MEANS OF ULTRASONIC PULSES 67-08 M19-74527
LAMELLAR STRUCTURE
DEFORMATION OF CEMENTATION 67-05 M13-68756
INVESTIGATIONS OF THIN OXIDE FILMS. PT. 3. THE ELECTRON MICROSCOPIC INVESTIGATION OF ISOLATED ALPHA-FE2O3 AND NIO WHISKERS 67-05 M13-69838
INVESTIGATIONS OF SURFACES OF THE BINARY SYSTEM

TA-FE BY MEANS OF AN EMISSION ELECTRON MICROSCOPE
67-06 M13-70995
LAMINAR CRYSTALLIZATION OF ELECTROSLAG MELTED INGOTS 67-06 M13-72305
TRANSMISSION ELECTRON MICROSCOPY OF VANADIUM-SILICON --V3SI-- AT LOW TEMPERATURES
67-07 M13-73624
THE MORPHOLOGY OF SOME BINARY EUTECTIC ALLOYS
67-08 M14-74519
THE STRUCTURE OF SOME EUTECTICS WITH HIGH RATIOS OF THE VOLUME FRACTIONS 67-08 M14-76054
THE LAYER BY LAYER SOLIDIFICATION OF ELECTROSLAG REMELTED INGOTS 67-11 M13-81577

LAMELLAR STRUCTURE, COOLING EFFECTS
SHRINKHOLE PHENOMENA AND TEXTURE FORMATION OF EUTECTIC AL-SI ALLOYS 67-05 M06-68515

LAMELLAR STRUCTURE, RADIATION EFFECTS
MEASUREMENTS OF THE ENERGY LIBERATED DURING THE HEATING OF BE SPECIMENS IRRADIATED BY NEUTRONS AT 77 K 67-12 M16-82509

LAMELLAR STRUCTURE, TEMPERATURE EFFECTS
ON CRYSTAL GROWTH DISTANT FROM PHASE EQUILIBRIUM CONDITIONS 67-07 M13-73855

LAMINA
SEE LAMINATES

LAMINATED PLASTICS
CAMERA MAKER CUTS COATS ADDS QUALITY WITH PRE-LAMINATED COIL 67-02 M20-60993

LAMINATED PLASTICS, COMPOSITE MATERIALS
STEEL WIRE REINFORCEMENT IN LAMINATED PLASTICS
67-03 M17-65499

LAMINATED PLASTICS, MECHANICAL PROPERTIES
BEHAVIOUR OF WIRE REINFORCED PLASTICS USING THE WIRE SHEET AS REINFORCING MATERIAL
67-06 M17-70617

LAMINATES
SEE ALSO LAMINATED PLASTICS
STELVETITE, A NEW COMPOSITE MATERIAL WITH A BRIGHT FUTURE 67-10 M20-79803

LAMINATES, BONDING
HOT SPRAY ADHESIVES SPEED PRODUCTION OF SANDWICH PANELS 67-07 M11-73845

LAMINATES, DIFFUSION
DIFFUSION IN A BIMETAL HAVING DIFFERENT CONCENTRATIONS OF SILICON 67-05 M14-68383

LAMINATES, FORMING
HOW TO FORM AND FABRICATE PRECOATED METALS. PT. 1
67-09 M08-78298

LAMINATES, HEAT TREATMENT
VACUUM HEAT TREATING FINDS A SPOT
67-04 M10-66698

LAMINATES, MAGNETIC PROPERTIES
SOME PROPOSALS FOR THE STANDARDIZATION OF CORE TRAYS 67-07 M15-73815

LAMINATES, MECHANICAL PROPERTIES
POSTFORMABLE ADHESIVELY BONDED METAL LAMINATES
67-07 M11-73844
THE FRACTURE OF MILD STEEL LAMINATES
67-09 M17-77732
LAMINATED MARTENSITIC WHITE IRONS
67-12 M17-82917
FRACTURE TOUGHNESS OF 7075-T6 AND -T651 SHEET, PLATE, AND MULTILAYERED ADHESIVE-BONDED PANELS
67-12 M17-83244

LAMINATES, METAL WORKING
SOUND CONTROL IN DESIGN THROUGH THE USE OF STEEL LAMINATES 67-12 M20-82988

LAMINATES, POWDER METALLURGY
INVESTIGATION OF THE PRODUCTION OF CERMET PARTS WITH VARIABLE PHYSICAL AND MECHANICAL PROPERTIES
67-02 M09-60178
FEASIBILITY OF MANUFACTURE OF HARD-ALLOY PARTS WITH VARIABLE PHYSICO-MECHANICAL PROPERTIES
67-09 M09-76911

LAMINATING
POST CURING BY ELECTRICAL INDUCTION HEATING
67-01 M10-57980
CAMERA MAKER CUTS COATS ADDS QUALITY WITH PRE-LAMINATED COIL 67-02 M20-60993
METAL LAMINATE COMPOSITE MATERIALS FOR COMPRESSOR BLADING 67-07 M09-73363
A LAMINATING RESIN IS USEFUL TO WIRE AND CABLE PRODUCERS 67-07 M11-73846
LAMINATED CERAMICS 67-09 M05-77818
METALLIC COATINGS SOLVE ENVIRONMENTAL PROBLEMS
67-09 M12-76469

LAMINATIONS
SEE LAMINATES

LAMPBLACK
SEE CARBON BLACK

LAMPS
SEE FLASH LAMPS
INCANDESCENT LAMPS

LANCES
SEE ALSO OXYGEN LANCES
DETERMINATION AND INFLUENCE OF JET CHARACTERISTICS IN THE LD AND LD-AC PROCESSES
67-02 M04-60691
RESEARCH AT WORKS LABORATORIES AND INSTITUTES
67-08 M04-75720
AUTOMATIC CONTROL AND REGULATION OF THE LANCE POSITION AND OF THE FLOW OF O2 UNDER PRESSURE IN THE OXYGEN STEEL CONVERTER 67-08 M04-76287

LANDING GEAR
USE OF 35 NCD 16 STEEL IN AERONAUTICS
67-02 M17-61964
VACUUM ARC MELT FOR SAFE LANDINGS
67-10 M20-78596

LANTHANUM, ALLOYING ADDITIVE
OXIDATION RESISTANCE OF KH20N80 ALLOY, ALLOYED WITH LANTHANUM AND CERIUM 67-02 M18-60063
EFFECT OF LANTHANUM AND YTTRIUM ON THE RECRYSTALLIZATION OF MOLYBDENUM
67-05 M14-68209
EFFECT OF CERIUM AND LANTHANUM ON THE CHILL OF CAST IRON 67-08 M06-75190
THE SOLUBILITY OF LATHANUM IN SILVER
67-11 M14-81175
EFFECT OF CERTAIN ALLOYING ELEMENTS ON THE STRENGTH AND PLASTICITY OF TITANIUM IN THE -196 TO 800 C. TEMPERATURE RANGE 67-11 M17-81163
EFFECT OF LANTHANUM ON THE FORM OF GRAPHITE IN AUSTENITIC CAST IRON 67-12 M06-81983

LANTHANUM, BINARY SYSTEMS
A BASIS FOR SOME OF THE VARIETY OF MAGNETIC PROPERTIES OF THE HEAVY RARE-EARTH METALS AND ALLOYS 67-07 M15-73581
PHASE RELATIONS AND INTERMETALLIC COMPOUNDS IN THE LANTHANUM-COBALT SYSTEM 67-11 M14-80306
THE PLUTONIUM-LANTHANUM SYSTEM 67-12 M13-82868

LANTHANUM, ELECTRICAL PROPERTIES
MICROWAVE INVESTIGATION OF THE SMALL GAP ANOMALY IN LANTHANUM 67-06 M16-71992

LANTHANUM, EMISSION
EMISSION AND ADSORPTION PROPERTIES OF THE W-LA SYSTEM 67-06 M16-70510

LANTHANUM, INTERMETALLICS
STRENGTH OF THE S-F EXCHANGE INTERACTION IN RARE-EARTH INTERMETALLICS 67-08 M16-75006

LANTHANUM, MAGNETIC PROPERTIES
TEMPERATURE AND FIELD DEPENDENCES OF THE KNIGHT SHIFT IN METALS AND SEMICONDUCTORS
67-09 M16-76781

LANTHANUM, MECHANICAL PROPERTIES
TEMPERATURE DEPENDENCE OF THE HARDNESS OF LANTHANUM AND NEODYMIUM IN THE RANGE 77-293 K
67-02 M17-61939

LANTHANUM, METALLOGRAPHY
METALLOGRAPHY OF CERIUM AND LANTHANUM
67-02 M13-62061
A METALLOGRAPHIC TECHNIQUE FOR LANTHANUM AND CERIUM
67-12 M13-82981

LANTHANUM, REACTIONS /CHEMICAL/
INVESTIGATION OF ATTACK OF PURE RHENIUM AND TUNGSTEN BY MOLTEN LANTHANUM AND CERIUM
67-02 M14-62285

LANTHANUM, REFINING
ELECTROWINNING AND TAPPING OF LANTHANUM METAL
67-02 M03-61135

LANTHANUM, SUPERCONDUCTIVITY
SUPERCONDUCTING ENERGY GAP OF BULK LANTHANUM BY POINT CONTACT TUNNELING 67-06 M16-71995
SUPERCONDUCTIVITY OF LANTHANUM AND LANTHANUM COMPOUNDS AT ZERO AND HIGH PRESSURE
67-07 M16-72839
LAW OF CORRESPONDING STATES FOR FCC AND D-HCP LA
67-09 M16-77686

LANTHANUM, TERNARY SYSTEMS
THE PHASE AB2 IN THE TERNARY SYSTEMS LA-SB-TE AND LA-SN-SB 67-10 M14-78479

LANTHANUM, THERMAL PROPERTIES
SPECIFIC HEAT OF LANTHANUM, PRASEODYMIUM, AND SAMARIUM METALS BETWEEN 3 AND 25 K
67-11 M15-81386

LANTHANUM BASE ALLOYS, SUPERCONDUCTIVITY
THE SPECIFIC HEAT AND SUPERCONDUCTIVITY OF LA-Y ALLOYS 67-11 M16-81470

LANTHANUM COMPOUNDS, BINARY SYSTEMS

LANTHANUM COMPOUNDS
LIQUIDUS IN THE ALUMINA-RICH SYSTEM LA2O3-AL2O3 67-07 M14-72832
LANTHANUM COMPOUNDS, CRYSTAL LATTICES
THE CRYSTAL STRUCTURE OF SO-CALLED ALPHA LAAL4 --LA3AL11-- 67-07 M13-73436
CHARACTERIZATION OF POINT DEFECTS IN NONSTOICHIOMETRIC COMPOUNDS FROM THERMODYNAMIC CONSIDERATIONS 67-10 M13-79116
LANTHANUM COMPOUNDS, ELECTRICAL PROPERTIES
PHYSICAL PROPERTIES OF SOME RARE-EARTH METAL DICARBIDES 67-04 M15-67099
LANTHANUM COMPOUNDS, EVAPORATION
THE EVAPORATION OF LANTHANUM HEXABORIDE 67-02 M15-62127
LANTHANUM COMPOUNDS, PHASES /STATE OF MATTER/
STUDIES OF PSEUDO-BINARY LAVES-PHASE SYSTEMS CONTAINING LANTHANIDES. PT. 1. CONSTITUTION AND MAGNETIC PROPERTIES OF THE GDAL2-GDFE2, GDAL2-GDCO2 AND ERCO2-ERAL2 SYSTEMS 67-11 M13-80314
SOLID HYDRIDES 67-11 M16-80469
LANTHANUM COMPOUNDS, PHYSICAL PROPERTIES
PHYSICAL PROPERTIES OF LANTHANUM DISILICIDE IN THE HOMOGENEITY REGION 67-05 M15-68709
SOME OF THE PHYSICAL PROPERTIES OF W-LAB6 ALLOYS 67-10 M15-78342
PHYSICAL PROPERTIES OF LANTHANUM DISILICIDE IN THE HOMOGENEITY REGION 67-12 M15-82685
NUCLEAR MAGNETIC RESONANCE OF THE DEUTERON IN LANTHANUM BIDEUTERIDE 67-12 M16-82137
LANTHANUM COMPOUNDS, POWDER METALLURGY
PRODUCTION OF LANTHANUM, GADOLINIUM AND YTTRIUM HEXABORIDES USING ELECTRON BEAM HEATING 67-06 M09-71460
THERMOEMISSIVITY OF ALLOYS OF W-LA2O3 SYSTEM 67-12 M09-81992
DEVELOPMENT OF A TECHNIQUE OF PREPARATION OF LA, GD, AND Y HEXABORIDES USING ELECTRON-BEAM HEATING 67-12 M09-82781
LANTHANUM COMPOUNDS, REACTIONS /CHEMICAL/
INVESTIGATION OF THE CONDITIONS OF ALLOY PREPARATION IN THE SYSTEM YB6-LAB6 67-02 M09-60179
INVESTIGATION OF THE CONDITIONS OF PREPARATION OF YB6-LAB6 ALLOYS 67-09 M09-76912
LANTHANUM COMPOUNDS, REDUCTION /CHEMICAL/
OXYCARBIDES OF LANTHANIDES 67-12 M13-82448
LANTHANUM COMPOUNDS, SUPERCONDUCTIVITY
SUPERCONDUCTIVITY OF LANTHANUM AND LANTHANUM COMPOUNDS AT ZERO AND HIGH PRESSURE 67-07 M16-72839
LANTHANUM COMPOUNDS, SYNTHESIS
LANTHANUM GERMANIDES 67-07 M14-73275
LANTHANUM COMPOUNDS, THERMAL PROPERTIES
SPECIFIC HEAT OF NDS, LASE, AND LATE 67-11 M15-81046
LANTHANUM COMPOUNDS, X RAY ANALYSIS
X-RAY INVESTIGATION OF LANTHANUM BORIDES 67-06 M13-71478
X-RAY ANALYSIS OF THE LANTHANUM BORIDES 67-12 M13-82799
LAP JOINTS
THE MASH-LAP WELDING PROCESS 67-02 M11-59486
COLD WELDING OF DUCTILE METALS--PROGRESS IN TECHNIQUES 67-02 M11-60920
FOR ALUMINUM OR MAGNESIUM...NEW PROCESS FEATURES CLOSE CONTROL OF BRAZING HEAT 67-04 M11-66242
LAP JOINTS, MECHANICAL PROPERTIES
RIGID TEST BODY FOR METAL ADHESIVES 67-01 M11-58299
ADHESIVE-BONDED JOINTS BETWEEN METALS 67-02 M11-61048
LAP WELDING
SEE LAP JOINTS
WELDING
LAPPING /FOLDING/
SEE FOLDING
LAPPING /POLISHING/
SEE POLISHING
LASER BEAM CUTTING
NINE METHODS FOR DIFFICULT-TO-IMPOSSIBLE JOBS 67-03 M08-65399
TREATMENT OF STEEL WITH LASER RAYS 67-05 M08-68384
THE MACHINE TOOL, AND SPEEDS AND FEEDS 67-05 M08-68508
NEW METHODS OF DRILLING DIAMOND WIRE DRAWING DIES--ULTRASONIC AND LASER 67-07 M08-72884
GAS-JET LASER CUTTING 67-11 M08-81002
MICROMACHINING FOR MICROELECTRONICS 67-11 M16-81489
BRITISH LASER INVENTION WILL REVOLUTIONIZE METAL CUTTING 67-12 M08-82470
LASER BEAM CUTTING, AUTOMATION
NEW METHODS OF DRILLING DIAMOND DIES--ULTRASONICS AND LASER BEAMS 67-10 M08-78571
LASER BEAM WELDING
LASER WELDING OF CERTAIN METALS 67-02 M11-59511
PULSATION LASER WELDING--A REVIEW 67-02 M11-60129
WHICH WELD FOR WHAT JOB AND WHEN 67-03 M11-65234
JOINT VENTURE--LASERS AND ELECTRONICS 67-03 M11-65360
LASER WELDING OF SOME METALS 67-04 M11-66460
PULSED LASER BEAM WELDING 67-04 M11-67669
ELECTRON AND LASER BEAM WELDING--TO DATE AND 1970 67-04 M11-68200
LASERS FIND USE FOR PRODUCTION WELDING 67-08 M11-74727
THE PRESENT STATE AND THE FUTURE OF MODERN WELDING PROCESSES 67-08 M11-75515
LASER WELDING MOVES UP A NOTCH 67-08 M11-76063
CALCULATING THE HEATING PROCESS DURING LASER WELDING OF METALS 67-10 M11-78401
HEAT CONDUCTION PROBLEMS IN LASER WELDING 67-11 M11-81001
PARAMETERS AFFECTING LASER WELDING 67-12 M11-82801
LASER MACHINING
SEE LASER BEAM CUTTING
LASER WELDING
SEE LASER BEAM WELDING
LASERS
LASER WELDING--THREE IMPOSSIBLE JOBS 67-01 M11-58651
TESTING--A LOOK BEYOND THE PRODUCT 67-02 M19-61854
LASER DIODES BY SOLUTION REGROWTH ON THE --111-- PLANE 67-03 M14-65896
THE BEHAVIOR, IN TIME, OF CONTINUOUSLY OPERATED GAAS LASER DIODES 67-03 M16-65437
THE PROPERTIES OF CR-DOPED RUTILE FOR MICROWAVE LASERS 67-03 M16-65438
LASER MICROPROBE HELPS IDENTIFY INCLUSIONS 67-03 M19-65981
SEMICONDUCTOR LASERS USING OPTICAL PUMPING 67-04 M16-66759
EFFECT OF POWERFUL LIGHT FLUXES ON METALS 67-04 M16-68009
BUILT-IN INTERFEROMETERS 67-06 M08-71930
VERY HIGHLY REFLECTIVE DIELECTRIC MIRROR COATINGS WITH ZINC SELENIDE 67-06 M16-69962
SOME EFFECTS OF LASER RADIATION ON METALS 67-06 M16-70107
STRENGTHENING OF STEELS WITH LASER BEAMS 67-08 M10-76042
STRENGTHENING OF A HARD ALLOY BY LASER BEAM 67-09 M17-77286
LASER DAMAGE ON SEMICONDUCTOR SURFACES 67-12 M16-83271
THE PHYSICAL NATURE OF HOW STEELS ARE HARDENED BY LIGHT PULSES 67-12 M16-83308
LOCAL SPECTRAL ANALYSIS OF IRON USING LASERS 67-12 M19-82086
LASERS, CRYSTAL GROWTH
VAPOR-PHASE GROWTH OF GAAS1-XPX ROOM-TEMPERATURE INJECTION LASERS 67-06 M16-71146
NEW ASPECTS OF SOLUTION REGROWTH IN THE DEVICE TECHNOLOGY OF GALLIUM ARSENIDE 67-07 M16-72922
LASERS, DEFECTS
PRECIPITATES IN DISK-GROWN LASER RUBIES 67-03 M13-65895
LASERS, ELECTRICAL PROPERTIES
THE SURFACE DAMAGE OF HIGH OUTPUT GALLIUM ARSENIDE LASERS 67-07 M16-72923
LATENT HEAT
SEE HEAT OF FUSION
HEAT OF SUBLIMATION
HEAT OF VAPORIZATION
LATENT HEAT OF FUSION
SEE HEAT OF FUSION
LATHES
SEE ALSO TURRET LATHES
METAL SPINNING TOOLS UP FOR SPACE AGE JOBS

67-06 M08-70680
LATTICE CONSTANT
SEE LATTICE PARAMETERS
LATTICE DEFECTS
SEE ALSO CRYSTAL DEFECTS
COMPARING THE STACKING FAULT ENERGY AND ELECTRON STRUCTURE OF A METAL 67-05 M16-68254
LATTICE DISPLACEMENTS
SEE DISPLACEMENTS /LATTICE/
LATTICE PARAMETERS
EFFECT OF SLIGHT IMPURITIES ON THE CRYSTAL LATTICE PARAMETER OF IRON 67-01 M13-57362
STRUCTURAL STUDIES OF THE CARBIDES --FE,MN--3C AND --FE,MN--5C2 67-01 M13-57421
MICRODIFFRACTION OF ELECTRONS APPLIED TO METALLOGRAPHY 67-01 M13-58127
THE BETA-RHOMBOHEDRAL BORON STRUCTURE 67-01 M13-58408
CRYSTAL STRUCTURES AND DENSITIES. PT. 3 67-01 M13-58506
THE CRYSTAL STRUCTURE OF MO5AS4 67-01 M13-58510
SOME INNOVATIONS AND OBSERVATIONS ON HIGH PRESSURE DIFFRACTOMETRY 67-01 M13-58762
THE CRYSTALLINE STRUCTURE AND STRUCTURAL RELATIONSHIP OF THE GAMMA AND EPSILON PHASES IN THE SYSTEM CU-SN 67-01 M14-58625
DELTA-U3O8 A HIGH TEMPERATURE MODIFICATION. PT. 2, SINGLE CRYSTAL STUDIES 67-02 M13-59053
THE CRYSTAL STRUCTURES OF LUMN5 AND THE RMN12 COMPOUNDS --WHERE R EQUALS GD, TB, DY, HO, ER AND TM-- 67-02 M13-59096
RARE EARTH COBALT COMPOUNDS WITH THE A2B17 STRUCTURE 67-02 M13-59097
THE STRUCTURE OF BETA UO3 67-02 M13-59098
CRYSTAL STRUCTURES OF ALPHA- AND BETA-INDIUM SELENIDE, IN2SE3 67-02 M13-59479
CRYSTAL STRUCTURE OF THE HOAL3 AND DYAL3 COMPOUNDS 67-02 M13-59674
AN ELECTRON-DIFFRACTION STUDY OF AMORPHOUS TLSE 67-02 M13-61656
X-RAY DIFFRACTION STUDY OF CERTAIN MIXED FERRITES 67-02 M13-61666
AGEING STUDY OF THE MARTENSITE IN IRON-NICKEL ALLOYS WITH ALUMINIUM ADDITIONS 67-02 M13-61685
COMPOUNDS WITH TH6MN23-TYPE STRUCTURES IN ALLOYS OF THE RARE-EARTH METALS WITH MANGANESE AND IRON 67-02 M13-61789
STRUCTURAL INVESTIGATIONS ON PRECIPITATION AT ROOM AND AT ELEVATED TEMPERATURE. QUANTITATIVE ANALYSIS OF LATTICE DIRECTIONS IN SPHERICAL GUINIER-PRESTON ZONES 67-02 M14-60118
PREPARATION OF HEXAGONAL CADMIUM TELLURIDE FILMS 67-02 M14-61660
THE STRUCTURE OF A METASTABLE, TRIGONAL TRANSITION PHASE IN QUENCHED ALUMINUM-29 AT . PER CENT ZINC 67-02 M14-61820
SUPERCONDUCTING TRANSITION TEMPERATURES AND LATTICE CONSTANTS FOR THE PSEUDOBINARY SYSTEM NB3AL-NB3SB 67-02 M16-61570
THE LATTICE SPACINGS OF THORIUM-RICH SOLID SOLUTIONS WITH PRASEODYMIUM, SAMARIUM, GADOLINIUM AND ERBIUM 67-03 M13-65127
THE ROOM-TEMPERATURE LATTICE SPACINGS OF SOME INTRA RARE-EARTH BINARY SYSTEMS 67-03 M13-65132
THE CRYSTALLINE STRUCTURE OF ZNTE THIN FILMS 67-03 M13-65223
PSEUDO-FIVEFOLD SYMMETRY IN CARBONYL PROCESS NICKEL 67-03 M13-65488
NEW PHASES IN THE ZR-P AND ZR-AS SYSTEMS 67-03 M13-65690
X-RAY MEASUREMENT OF ELASTIC STRAIN AND LATTICE CONSTANT OF DIFFUSED SILICON 67-03 M14-65769
CRYSTAL STRUCTURE OF HIGHER ALUMINUM BORIDES 67-04 M13-66121
BONDING, LATTICE PARAMETER, DENSITY AND DEFECT STRUCTURE OF TIN CONTAINING AN EXCESS OF N 67-04 M13-66537
EPITAXY OF TIN ELECTRODEPOSITED ON IRON 67-04 M13-66919
THE URANIUM-IRON-SILICON SYSTEM. THE NEW PHASE U2FESI3 67-04 M13-67108
THE EXISTENCE OF A CHROMIUM-MOLYBDENUM A15 STRUCTURE 67-04 M13-67110
NEUTRON DIFFRACTION OF CR2NIS4 67-04 M13-67731
A FAMILY OF ORTHORHOMBIC COMPOUNDS OF THE MNY2S4 TYPE 67-04 M14-66342
CONTRIBUTION TO THE CR-C-N SYSTEM 67-04 M14-66915
SOME PRECIPITATION REACTIONS IN CHROMIUM-MANGANESE-NITROGEN STAINLESS STEELS ON AGING AND COLD-WORKING 67-04 M14-66992
PRODUCTION OF FE-CO ALLOYS IN HIGHLY-DISPERSED STATE AND STUDY OF THEIR CRYSTAL STRUCTURE 67-04 M14-67378
ON THE POSITION OF CARBON ATOMS IN CRYSTAL LATTICES OF EPSILON PRIME-, EPSILON- AND KAPPA PRIME-MARTENSITE 67-04 M14-67380
A NEW EXCESS PHASE IN CR-MN-NI-TI STEEL 67-04 M14-67977
SOME PHYSICAL PROPERTIES OF NIOBIUM MONOCARBIDE IN THE HOMOGENEITY REGION 67-04 M15-67860
THE STRUCTURE OF NEW RARE EARTH COMPOUNDS. PT. 1 67-04 M16-66910
PEROWSKITE CARBIDES WITH RARE-EARTH METALS 67-04 M16-66911
LATTICE PARAMETERS OF SOME H. C. P. BINARY ALLOYS OF RHENIUM AND OSMIUM-- RE-W, RE-IR, RE-PT, OS-IR, OS-PT 67-05 M13-68222
THE CRYSTAL STRUCTURES OF CR3 --C, N-- AND CR2VC2 67-05 M13-68486
THE TAU PHASE IN THE CO-TI-B TERNARY SYSTEM 67-05 M13-68583
SUGGESTIONS REGARDING CERTAIN OXYGEN STRUCTURES FORMED ON THE W --110-- SURFACE 67-05 M13-69039
CRYSTAL STRUCTURE OF SM5GE4 67-05 M13-69090
COMPOUND OF RARE EARTH ELEMENTS WITH PB HAVING A GENERAL CHEMICAL FORMULA M5X3 67-05 M13-69128
PREPARATION AND STRUCTURAL DATA OF --TI1-XVX--O2 67-05 M13-69297
HEXAGONAL URANIUM NITRIDE 67-05 M13-69344
THE LATTICE PARAMETERS OF ALPHA-MANGANESE AT LOW TEMPERATURES 67-05 M13-69377
ELECTRON DIFFRACTION STUDY OF THE STRUCTURE OF THE SUBOXIDES OF NIOBIUM AND TANTALUM 67-05 M13-69584
THE PHASE EQUILIBRIA AND CRYSTAL CHEMISTRY OF THE INTERMEDIATE PHASES IN THE YTTERBIUM-ANTIMONY SYSTEM 67-05 M14-68766
A NEW QUATERNARY LIWV2O7.5 PHASE 67-05 M14-68920
ON THE INTERACTION OF SCANDIUM OXIDE WITH TUNGSTEN TRIOXIDE 67-05 M14-68966
THE HYDROGEN-PALLADIUM SYSTEM. THE ROLE OF X-RAY AND NEUTRON DIFFRACTION STUDIES 67-05 M14-69283
TRANSMISSION ELECTRON MICROSCOPIC OBSERVATION OF LATTICE DEFORMATION IN ANTIPHASE BOUNDARIES OF ORDERED FE-SI ALLOYS 67-05 M14-69786
CRYSTAL STRUCTURE AND SUPERCONDUCTIVITY OF A HIGH-PRESSURE PHASE OF CASI2 67-05 M16-68220
TEMPERATURE DEPENDENCE OF THE MEAN SQUARE STATIC DISPLACEMENT OF ATOMS IN HOMOGENEOUS SOLID SOLUTIONS 67-05 M16-68239
NEW WORK ON THE X-RAY DETERMINATION OF STRESSES AND INTERNAL DEFORMATION 67-05 M17-68526
TEMPERATURE DEPENDENCE OF THE MECHANICAL PROPERTIES, MICROSTRUCTURE AND STACKING FAULT ENERGY OF AN ARSENIC-CONTAINING ALUMINUM BRONZE OF THE CUAL15-TYPE 67-05 M17-69586
EU2NI17 AND EUNI5 COMPOUNDS AND THEIR CRYSTAL STRUCTURES 67-06 M13-69996
NEW COMPOUNDS OF RARE-EARTH METALS WITH ZINC AND THEIR CRYSTAL STRUCTURE 67-06 M13-70329
THE CRYSTAL STRUCTURE OF MOALB 67-06 M13-70455
ENTROPY, LATTICE PARAMETERS AND HIGH-TEMPERATURE PHENOMENA OF METALS 67-06 M13-71074
PHASE DECOMPOSITION IN NEAR NI3AL ALLOYS 67-06 M14-69941
PEROVSKITE CARBIDES WITH RARE-EARTH METALS 67-06 M16-72067
HOT-EXTRUDED CHROMIUM COMPOSITE POWDER 67-07 M09-73868
STRUCTURES OF NEW RARE-EARTH COMPOUNDS. PT. 2 67-07 M13-72449
AN ABSOLUTE PRECISION MEASUREMENT OF LATTICE CONSTANTS ON GE AND AL MONOCRYSTALS WITH ELECTRON DIFFRACTION 67-07 M13-72729
AN ABSOLUTELY PRECISE DETERMINATION OF THE LATTICE CONSTANTS OF SI SINGLE CRYSTALS BY ELECTRON DIFFRACTION 67-07 M13-72757
X-RAY DIFFRACTION STUDIES OF THE LATTICE PARAMETERS OF SOLIDS UNDER VERY HIGH PRESSURE 67-07 M13-73114
THE CRYSTAL STRUCTURE OF SO-CALLED ALPHA LAAL4

--LA3AL11-- 67-07 M13-73436
D88 PHASES OF THE RARE EARTH ELEMENTS WITH TIN AND LEAD 67-07 M13-73437
THE CRYSTAL STRUCTURE OF GD13ZN58 67-07 M13-73438
THE SYSTEM MNSE-MNS 67-07 M14-72830
MARTENSITE IN IRON-NITROGEN ALLOYS 67-07 M14-74173
LATTICE PARAMETER CHANGE OF FE-RH ALLOYS DUE TO ANTIFERROMAGNETIC-FERROMAGNETIC TRANSFORMATION 67-07 M15-72959
PROBLEMS IN THE DEVELOPMENT AND USE OF SILICON-IRONS, ORIENTED CRYSTAL AND NONORIENTED 67-07 M15-73811
SOLID STATE PHYSICS--ADVANCES IN RESEARCH AND APPLICATIONS 67-07 M16-73116
DEPENDENCE OF CALCULATED ELASTIC CONSTANTS ON THE C..A RATIO OF HEXAGONAL CLOSE-PACKED METALS 67-07 M17-72957
A HANDBOOK OF LATTICE SPACINGS AND STRUCTURES OF METALS AND ALLOYS. V 2 67-08 M13-74600
RARE-EARTH-SB AND -BI COMPOUNDS WITH THE GD4BI3 --ANTI-TH3P4-- STRUCTURE 67-08 M13-75291
THE INFLUENCE OF ELASTIC ANISOTROPY ON SOME PROPERTIES OF GLIDE DISLOCATIONS IN BCC CRYSTALS 67-08 M13-75330
LOW-ENERGY ELECTRON DIFFRACTION STUDY OF THE --100-- FACE OF SILVER, GOLD, AND PALLADIUM 67-08 M13-75369
A REFINEMENT OF THE PARAMETERS OF ALPHA MANGANESE 67-08 M13-76135
ALKALINE EARTH SILICIDES, GERMANIDES AND STANNIDES WITH CRB STRUCTURE TYPE 67-08 M13-76136
RARE EARTH-GERMANIUM AND -SILICON COMPOUNDS AT 5..4 AND 5..3 COMPOSITIONS 67-08 M13-76139
X-RAY INVESTIGATION OF CUBIC TUNGSTEN CARBIDES IN SPARK MACHINED CERMETS AND CEMENTED TUNGSTEN CARBIDES 67-08 M14-74936
STUDY OF THE ALSB-GASB-INSB SYSTEM 67-08 M14-75080
POLYMORPHISM IN SOME IV-VI COMPOUNDS INDUCED BY HIGH PRESSURE AND THIN-FILM EPITAXIAL GROWTH 67-08 M14-75552
THE SURFACE ENERGY OF IRON-3 PER CENT SILICON BY SURFACE-RELAXATION MEASUREMENTS 67-08 M14-76206
NEW A-15 PHASES 67-08 M16-75002
APPLICATION OF X-RAY METHODS TO THE STUDY OF THE REAL STRUCTURE OF MONOCRYSTALLINE EPITAXIAL LAYERS 67-08 M16-75239
FIGHT AGAINST WEAR STARTS WITH MATERIAL SELECTION 67-08 M17-74488
INFLUENCE OF FRICTION CONDITIONS ON THE LATTICE CONSTANT OF THE GAMMA-PHASE DURING THE WEAR OF AUSTENITIC MANGANESE CAST IRON 67-08 M17-76009
THE CRYSTAL STRUCTURE OF HEXAGONAL RH2AL3 67-09 M13-76383
CRYSTAL STRUCTURE REFINEMENTS OF THE B 20 AND MONOCLINIC --COGE-TYPE-- POLYMORPHS OF FEGE 67-09 M13-76384
LOWER-TEMPERATURE MODIFICATIONS OF NB2C AND V2C 67-09 M13-76400
CHALCOGENIDES OF THE TRANSITION ELEMENTS. PT. 5. CRYSTAL STRUCTURES OF THE DISULFIDES AND DITELLURIDES OF RUTHENIUM AND OSMIUM 67-09 M13-76446
CRYSTALLOGRAPHY OF BA3UFE2O9 AND SR3UFE2O9 COMPOUNDS 67-09 M13-76468
EXPERIMENTS ON THE DEFORMATION OF NIOBIUM SINGLE CRYSTALS. PT. 2. ELECTRON MICROSCOPE STUDY OF DISLOCATION STRUCTURES 67-09 M13-76586
THE WIDTHS OF GLISSILE EXTENDED DISLOCATIONS IN ANISOTROPIC FACE-CENTERED CUBIC CRYSTALS 67-09 M13-76588
THE DEPENDENCE OF YIELD STRESS ON FOREST DISLOCATION DENSITY IN COPPER SINGLE CRYSTALS 67-09 M13-76598
INVESTIGATIONS ON THE SOLID SOLUTION SERIES--Y6MN23-Y6FE23 AND YMN2-YFE2 67-09 M13-77025
THE CRYSTAL STRUCTURES OF RH10GA17 AND IR3GA5 67-09 M13-77301
THE SCANDIUM--CARBON SYSTEM. PT. 1 67-09 M13-77514
THE CRYSTAL STRUCTURE OF TI3SIC2--A NEW COMPLEX CARBIDE 67-09 M13-77515
CRYSTAL STRUCTURE OF RHHG2 67-09 M13-77571
STRUCTURAL STUDY OF A NEW TITANIUM SELENIDE--TI9SE4 67-09 M13-77682
INTERMETALLIC PHASES IN THE SYSTEMS OF ZINC WITH LANTHANUM, CERIUM, PRASEODYMIUM, NEODYMIUM, AND YTTRIUM 67-09 M13-77722
LATTICE PARAMETERS OF IRON-RICH IRON-GALLIUM ALLOYS 67-09 M13-77733
THE CRYSTAL STRUCTURE OF BISMUTH-2 AT 26 KBAR 67-09 M13-77968
CRYSTALLOGRAPHIC AND MAGNETIC PROPERTIES OF THIN FILMS OF IRON EPITAXIALLY GROWN ON FCC SUBSTRATES 67-09 M14-76592
INSB AND INAS LATTICE CHANGE DURING ZINC DIFFUSION 67-09 M14-77456
EXPERIMENTS ON THE DEFORMATION OF NIOBIUM SINGLE CRYSTALS. PT. 1. STRESS VERSUS STRAIN CURVES AND SLIP SYSTEMS IN COMPRESSION AND TENSION 67-09 M17-76585
THE ELECTROLYTIC ISOLATION AND X-RAY DIFFRACTION IDENTIFICATION OF NIOBIUM CARBIDES AND NIOBIUM NITRIDES IN LOW-NIOBIUM STEELS 67-09 M19-78194
EFFECTS OF CARBON CONTENT ON THE PROPERTIES OF TUNGSTEN CARBIDE-TANTALUM CARBIDE-10 PER CENT COBALT CEMENTED CARBIDE 67-10 M09-79978
X-RAY STUDIES IN THE SYSTEM THNI5-XALX 67-10 M13-78670
SOME ADVANCES IN THE STRUCTURAL CHEMISTRY OF ALLOYS --T-X AND T-M-X PHASES-- 67-10 M13-78705
ELECTRON-DIFFRACTION STUDY OF THE PB2BI2SE5 STRUCTURE 67-10 M13-79355
X-RAY STRUCTURE INVESTIGATIONS OF SUPERCONDUCTING ALLOYS WITH NIOBIUM AS THE BASE 67-10 M13-79542
THE STRUCTURE AND EVOLUTION OF CRYSTALLINE PARAMETERS IN THE SOLID SOLUTION --CR,FE--7C3 67-10 M13-79587
THE CRYSTAL STRUCTURE OF THE CEAL COMPOUND 67-10 M13-79588
MISCIBILITY GAP IN THE TH-THC SYSTEM FROM HIGH-TEMPERATURE X-RAY DATA 67-10 M13-79594
THE CRYSTAL STRUCTURE OF HO4CO3 67-10 M13-79685
DEFINITION OF THE CRYSTALLINE PARAMETERS AND THE INTENSITY OF THE DEBYE-SCHERRER RAYS OF CUBIC AND HEXAGONAL CO 67-10 M13-79707
APPLICATION OF THE ELECTRON MICROSCOPE FOR PRODUCTION OF PSEUDO-KOSSEL PATTERNS AND THEIR USE IN THE DETERMINATION OF LATTICE CONSTANTS OF A BERYLLIUM-4.4 PER CENT WT PER CENT COPPER ALLOY 67-10 M13-79997
BORON-RICH TUNGSTEN BORIDE 67-10 M13-80012
LATTICE EXPANSIONS AND POLYCRYSTALLINE DEFORMATIONS 67-10 M14-78340
THE THERMAL EXPANSION OF GAMMA PHASE CU-MN ALLOYS AT HIGH TEMPERATURES 67-10 M15-78588
LATTICE SPACINGS AND EFFECTIVE ATOMIC DIAMETERS IN THE TERNARY SYSTEM TH-CE-ZR 67-10 M16-78669
THE CHEMISTRY OF THE ACTINIDES 67-10 M16-79435
ELEVATED NITROGEN CONTENTS IN AUSTENITIC CRNI AND CRMN STEELS 67-10 M17-78339
EFFECTS OF TRACE IMPURITIES ON X-RAY DIFFRACTION 67-11 M13-80135
THERMAL-EXPANSION COEFFICIENTS OF SELENIUM AND GALLIUM SELENIDE FROM X-RAY STRUCTURAL ANALYSIS DATA IN ASSOCIATION WITH THE CHEMICAL BOND 67-11 M13-80176
LATTICE SPACINGS AND EFFECTIVE ATOMIC DIAMETERS IN THE TERNARY SYSTEMS FORMED BY TH AND CE WITH Y, LA, GD AND ER, AND BY TH, PR AND Y 67-11 M13-80308
THE EXISTENCE OF VARIOUS PHASES IN THE QUASI-BINARY SYSTEM, BI2SE3-BI2S3 67-11 M13-80400
THE CRYSTAL STRUCTURE OF THE M PHASE, NB-NI-AL 67-11 M13-80489
RESEARCH ON NOBLE METAL ALLOYS CONTAINING MORE ELECTROPOSITIVE ELEMENTS. PT. 12. TYPE-CII PHASES IN RARE EARTH ELEMENT ALLOYS 67-11 M13-80576
THE EFFECT OF SYSTEMATIC REFLECTIONS ON THE --110-- EXTINCTION DISTANCE IN MOLYBDENUM 67-11 M13-80613
CRYSTAL LATTICE PARAMETER AND STRUCTURAL DISTORTIONS IN FE-RH ALLOY DURING PHASE TRANSFORMATIONS 67-11 M13-80724
A NEW VANADIUM SILICIDE OF FORMULA, V6SI5 67-11 M13-81566
CRYSTALLOGRAPHIC STUDY OF THE SYSTEM, ERBIUM-SELENIUM 67-11 M13-81567
NEUTRON-DIFFRACTION STUDY OF UC2 AT 300 TO 5 K

67-11 M13-81572
CRYSTALLOGRAPHIC STUDIES OF SOME MIXED MANGANITE SPINELS 67-11 M13-81678
THE CONSTITUTION OF ALLOYS OF GOLD AND MERCURY 67-11 M14-80305
PHASE RELATIONS AND INTERMETALLIC COMPOUNDS IN THE LANTHANUM-COBALT SYSTEM 67-11 M14-80306
PHASE RELATIONS IN THE ZINC-RICH PORTION OF THE PLUTONIUM-ZINC SYSTEM 67-11 M14-80316
CRYSTAL GROWTH AND DEFECT STRUCTURE OF ZINC SULFIDE AND ZINC SELENIDE PLATELETS 67-11 M14-81094
ORDER-DISORDER PHENOMENA AND SOLID SOLUTIONS 67-11 M14-81110
THE POSSIBLE ROLE OF DISLOCATIONS IN GENERATING ORDERED AND DISORDERED SHEAR STRUCTURES 67-11 M14-81671
THE MISCIBILITY OF THE TAU BORIDES 67-11 M15-80374
A REVIEW OF THE PHYSICAL PROPERTIES OF SOME PRIMARY SOLID SOLUTIONS, AND THEIR INTERPRETATION 67-11 M15-81109
THERMODYNAMICS OF FERRITIC SOLUTIONS OF THE IRON-ZINC SYSTEM AT 700 TO 900 C 67-11 M15-81332
LATTICE PARAMETER ANOMALIES IN INDIUM-CADMIUM SOLID SOLUTIONS 67-11 M16-80187
EFFECT OF TEMPERATURE ON THE PENETRATION OF HEAVY KEV IONS IN MONOCRYSTALLINE SOLID. PT. 1. XE133 IONS IN GOLD 67-11 M16-80322
ELASTIC CONSTANTS OF TRIGONAL SELENIUM 67-11 M17-81099
X-RAY EXAMINATION OF THE AL-BE-CE SYSTEM UP TO 25 PER CENT CE 67-12 M13-82122
PROPERTIES OF SN ALLOYS CONTAINING SM, EVIDENCE FOR A NEW PHASE 67-12 M13-82513
THE COMPOSITIONS, AG8MX6, WHERE M EQUALS SI, GE, SN AND X EQUALS S, SE, TE 67-12 M13-82514
THE NATURE OF THE SOURCE OF DISLOCATION LOOPS GENERATED BY GOLD DIFFUSION INTO SILICON CRYSTALS 67-12 M13-82674
RADIOCRYSTALLOGRAPHIC ANALYSIS OF LOW- AND HIGH-TEMPERATURE FORMS OF RE2SO4 67-12 M13-82694
RARE EARTH COBALT COMPOUNDS WITH THE AB3 STRUCTURE 67-12 M13-82967
ELECTRON-MICROSCOPY STUDIES OF TRANSFORMATIONS IN A TI-V ALLOY 67-12 M13-82975
FAULTING IN COMPACTED AG-9 AT. PER CENT SN ALLOY POWDERS 67-12 M13-83050
THE RBF-CDF2 SYSTEM 67-12 M13-83160
EPITAXIAL GROWTH OF VACUUM-EVAPORATED CO ON NACL. PT. 2. ANALYSIS OF DIFFRACTION PATTERNS 67-12 M14-82008
ORDERED PT3-CO ALLOY STUDIED IN THE FIELD-ION MICROSCOPE 67-12 M14-82365
EPITAXIAL GROWTH OF ZNTE ON ZNSE BY VAPOR TRANSPORT 67-12 M14-82675
ORDERING AND ITS EFFECT ON DISLOCATION ARRANGEMENTS IN MG3CD 67-12 M14-82962
THE PRECIPITATION HARDENING OF A CU-NI-SN ALLOY 67-12 M14-83146
X-RAY STUDIES ON THE THERMAL EXPANSION OF COPPER-NICKEL ALLOYS 67-12 M15-81734
THERMODYNAMIC PROPERTIES OF LIQUID MAGNESIUM-SILICON ALLOYS. DISCUSSION OF THE MG-GROUP IVB SYSTEMS 67-12 M15-82850
STRAIN IN METAL CARBIDES 67-12 M17-81825
PLASTIC DEFORMATION OF SINGLE-CRYSTAL NIAL 67-12 M17-82755

LATTICE PARAMETERS, ALLOYING EFFECTS
EXTENT AND LATTICE PARAMETERS OF THE LAVES PHASE FIELD IN THE FE-NB-SI SYSTEM 67-07 M13-74174
COMPOSITIONAL AND PRESSURE EFFECTS IN THE PLUTONIUM-GALLIUM SYSTEM 67-09 M15-76308

LATTICE PARAMETERS, COMPOSITION EFFECTS
VARIATIONS IN SOME PROPERTIES OF SINTERED TUNGSTEN CARBIDE-COBALT ALLOYS WITH PARTICLE SIZE AND BINDER COMPOSITION 67-01 M15-58743

LATTICE PARAMETERS, COOLING EFFECTS
DETERMINATION OF THE LATTICE PARAMETERS OF COBALT AND CHROMIUM IN THE TEMPERATURE RANGE FROM 20 TO -180 C 67-07 M13-74024

LATTICE PARAMETERS, HEATING EFFECTS
PRECIPITATION HARDENING IN IRON-MOLYBDENUM ALLOY 67-04 M17-67550
EFFECT OF HEAT TREATMENT CONDITIONS ON THE LATTICE PARAMETER OF THE SEPARATED PHASE OF NI-CR-TI-AL ALLOYS 67-06 M14-70165
THE LATTICE PARAMETER OF HIGH-PURITY THORIUM WITH REFERENCE TO IMPURITY CONTENT AND HEAT-TREATMENT 67-09 M13-77475

LATTICE PARAMETERS, IMPURITY EFFECTS
THE EFFECT OF SMALL ADDITIONS AND IMPURITIES ON THE CRYSTALLINE LATTICE CONSTANT AND HEAT EXPANSION OF MOLYBDENUM 67-06 M13-70951

LATTICE PARAMETERS, PRESSURE EFFECTS
X-RAY DIFFRACTION STUDIES ON CDTE AT HIGH PRESSURE 67-03 M13-65719
X-RAY DIFFRACTION AND OPTICAL OBSERVATIONS ON CRYSTALLINE SOLIDS UP TO 300 KBAR 67-05 M13-68652
EFFECT OF PRESSURE ON CRYSTAL STRUCTURE AND LATTICE PARAMETERS OF IRON UP TO 300 KBAR 67-05 M14-69220

LATTICE PARAMETERS, RADIATION EFFECTS
GAS FORMATION AND COMPRESSION FRACTURES IN IRRADIATED BERYLLIUM 67-07 M14-73396
THE EFFECT OF NEUTRON IRRADIATION ON SOME MECHANICAL PROPERTIES OF DIAMOND. PT. 2. THE POLISHING OF DIAMOND 67-07 M16-73831
PHYSICAL CHARACTERIZATION OF MO SINGLE CRYSTALS FOR IRRADIATION EXPERIMENTS 67-08 M14-75994
CHANGES IN LATTICE PARAMETERS OF NEUTRON-IRRADIATED ALUMINUM 67-09 M14-77834
THE EFFECT OF CONCENTRATION UPON HELIUM PRECIPITATION IN IRRADIATED COPPER-BORON ALLOYS 67-10 M13-79589
EFFECT OF IMPURITIES ON THE ANNEALING BEHAVIOR OF IRRADIATED SILICON 67-10 M16-79154

LATTICE PARAMETERS, STRESS EFFECTS
ORIENTATION DISTRIBUTION OF CRYSTALLITES IN ROLLED 70-30 BRASS DETERMINED BY MEANS OF SELECTED AREA ELECTRON DIFFRACTION --SAED-- 67-07 M13-73847
THE AXIAL ORIENTATION OF NORMAL STRESSES IN ZN AND SB SINGLE CRYSTALS 67-08 M17-75902
DEFORMATION TWINNING IN NI AND FCC FE-NI ALLOYS 67-09 M13-76596
STUDY OF THE TEXTURES DEVELOPED IN ELECTROLYTIC URANIUM BY ROLLING AT ROOM TEMPERATURE AND THEIR EVOLUTION DURING ALPHA-PHASE ANNEALS 67-11 M13-80248

LATTICE PARAMETERS, TEMPERATURE EFFECTS
THE CRYSTAL DISTORTION OF VANADIUM 67-04 M13-67482
PHYSICAL PROPERTIES OF ALPHA PLUTONIUM AND DELTA PU-PHASE ALLOYS AT LOW TEMPERATURES 67-09 M15-76311
SOME PHYSICAL PROPERTIES OF PLUTONIUM METAL AT LOW TEMPERATURES 67-09 M15-76313
VARIATION OF THE MEAN-SQUARE DYNAMIC DISPLACEMENTS OF ZINC AND CADMIUM TELLURIDES AS A FUNCTION OF THE TEMPERATURE 67-11 M14-80166

LATTICE SCATTERING
EXPERIMENTAL STUDY OF THE LATTICE DYNAMICS OF DISORDERED VANADIUM ALLOYS 67-03 M13-65028
DEPENDENCE OF CARRIER SCATTERING ANISOTROPY IN N-GE ON IMPURITY CONCENTRATION 67-05 M15-68576
THE ELECTRICAL AND THERMAL RESISTIVITIES OF IRON 67-05 M15-69774
ON THE MIXED MECHANISM OF ELECTRON SCATTERING IN INSB CRYSTALS 67-05 M15-69789
MECHANISM OF SCATTERING OF ELECTRONS IN IN2O3 FILMS 67-06 M16-71923
LATTICE DYNAMICS OF ALUMINUM 67-07 M16-74016
THE ABSOLUTE ATOMIC SCATTERING FACTOR OF IRON 67-08 M16-76134
SCATTERING FACTORS FOR ALUMINUM IN THE SLATER APPROXIMATION 67-08 M16-76138

LATTICE SCATTERING, IMPURITY EFFECTS
INFLUENCE OF DEFECTS AND OF THE INTERACTION BETWEEN THEM ON PHONON SCATTERING IN HEAVILY DOPED GE AND SI CRYSTALS 67-10 M15-79013

LATTICE VACANCIES
CONTRIBUTION TO THE STUDY OF VACANCIES IN GOLD 67-01 M13-57171
THREE-LAYER DEFECTS IN QUENCHED ALUMINIUM 67-01 M13-57486
VACANCY-IMPURITY BINDING ENERGY IN ALUMINUM 67-01 M13-57963
QUASI-THERMODYNAMIC CALCULATION OF VACANCIES IN FCC METALS 67-01 M15-57418
QUENCHING OF VACANCIES IN PURE ALUMINIUM AND IN DILUTE ALUMINIUM-INDIUM AND ALUMINIUM-MAGNESIUM ALLOYS 67-01 M15-57478
EFFECT OF THE RECOVERY OF POINT DEFECTS ON THE COERCIVE FIELD OF NICKEL SINGLE CRYSTALS WITHIN THE TEMPERATURE RANGE-250 TO 0 C 67-01 M15-58657
SUPERCONDUCTIVITY DEGRADATION IN BETA-TUNGSTEN

STRUCTURE COMPOUNDS-NB3SN--CB3SN AND NB3AL 67-01 M16-57408
A FIELD ION MICROSCOPE STUDY OF NEUTRON IRRADIATED TUNGSTEN 67-01 M16-57562
VACANCY CONCENTRATIONS IN QUENCHED ALUMINUM 67-02 M13-58967
QUENCHING OF EXCESS VACANCIES IN DEFORMED ALLOYS AND ALLOYS SUBJECTED TO THERMOMECHANICAL TREATMENT 67-02 M13-60299
GENERATION OF VACANCIES IN MGO BY DEFORMATION 67-02 M13-61072
EFFECT OF DEFORMATION-INDUCED CRYSTAL IMPERFECTIONS ON MAGNETOCRYSTALLINE ANISOTROPY OF NICKEL SINGLE CRYSTALS 67-02 M13-61831
MONTE CARLO STUDIES OF VACANCY MIGRATION IN BINARY ORDERED ALLOYS 67-02 M14-60595
EFFECTS OF IMPURITY-VACANCY COMPLEX ON THE DEGREE OF COMPENSATION IN COMPOUND SEMICONDUCTORS 67-02 M16-59058
QUENCH-HARDENING GRADIENTS NEAR VACANCY SINKS IN CRYSTALS OF ZONE REFINED LEAD 67-02 M17-60634
X-RAY INVESTIGATION ON FATIGUE FRACTURE OF NOTCHED STEEL SPECIMEN. OBSERVATION OF FATIGUE PHENOMENA OF ANNEALED LOW-CARBON STEEL BY X-RAY MICROBEAM TECHNIQUE 67-03 M13-65196
POINT DEFECT ELECTRON SCATTERING IN BERYLLIUM 67-03 M13-65222
RADIATION-INDUCED POINT DEFECT CLUSTERS IN COPPER AND GOLD. PT. 1. CLUSTERS PRODUCED IN ENERGETIC DISPLACEMENT CASCADES 67-03 M13-65375
TECHNIQUE FOR MEASURING VACANCY CONCENTRATIONS IN METALS AT THE MELTING POINT 67-03 M13-65876
NUCLEATION AND GROWTH OF VOIDS IN QUENCHED ALUMINUM 67-03 M14-65639
DISTRIBUTIONS OF ELECTRICALLY ACTIVE DEFECTS IN THE SURFACE REGION OF CDS SINGLE CRYSTALS 67-03 M16-65806
ELECTRON MICROSCOPE OBSERVATIONS OF GAS BUBBLES IN NEUTRON IRRADIATED AL-LI ALLOYS 67-04 M13-66603
VACANCY CLUSTERS IN CU3AU ALLOY 67-04 M13-66650
INFLUENCE OF DISSOLVED BIVALENT CATIONS UPON THE DECOMPOSITION MECHANISM OF WUSTITE FE1-XO BELOW 600 C 67-04 M14-66298
ON THE ANOMALOUS DIFFUSION BEHAVIOUR OF BCC ZIRCONIUM 67-04 M14-66547
MOBILITY OF POINT DEFECTS IN GERMANIUM 67-04 M14-67307
ON THE BEHAVIOR OF VACANCIES IN PURE METALS 67-04 M14-67309
RADIATION-ENHANCED DIFFUSION IN METALS 67-04 M14-67315
QUENCHED-IN VACANCIES AND LOW-TEMPERATURE DIFFUSION IN AL-RICH ALLOYS 67-04 M14-67317
CALCULATING THE DIFFUSIONAL GROWTH RATE OF A PORE UNDER THE EFFECT OF APPLIED STRESS 67-04 M14-67917
METALLURGICAL ABSTRACTS ON LIGHT METALS AND ALLOYS. V 2 67-05 M01-68899
A KINETIC APPROACH TO INTERSTITIAL CLUSTERING IN NEUTRON IRRADIATED METALS 67-05 M13-68297
FOUR-LAYER DEFECTS IN QUENCHED ALUMINIUM 67-05 M13-68749
TRANSIENT STORED ENERGY IN COPPER AND COPPER-3.2 AT. PER CENT TIN 67-05 M13-68751
A STUDY ON THE THERMAL REDUCTION OF MG BY SI. PT. 1. EFFECTS OF ADDITIONS 67-05 M13-68892
CRYSTAL IMPERFECTIONS 67-05 M13-68990
DISLOCATION MULTIPLICATION, VACANCY ACCUMULATION, AND THE ONSET OF JERKY FLOW DURING FORWARD AND REVERSED STRAIN IN CU-3.2 AT. PER CENT SN 67-05 M14-68750
SURFACE OXIDE FILMS AND THE LIFETIME OF VACANCIES IN THIN CRYSTALS 67-05 M14-68752
THE ROLE OF LATTICE VACANCIES IN PHASE TRANSFORMATIONS OF BINARY ALLOYS 67-05 M14-69378
THE STUDY OF DEFECTS IN QUENCHED NICKEL 67-05 M14-69781
INVESTIGATION OF SUZUKI ATMOSPHERES IN COPPER-ALUMINUM ALLOYS BY SMALL-ANGLE X-RAY SCATTERING METHOD 67-06 M13-70330
THE CHANGE OF CRYSTAL ELASTIC CONSTANT CAUSED BY THE PRESENCE OF VACANCIES 67-06 M13-70635
DEFECT CHARACTERIZATION IN THE PRECIPITATION FROM CAO..YB2O3 CRYSTALLINE SOLUTIONS 67-06 M14-71166
DIFFUSION MECHANISM IN BODY-CENTERED CUBIC METALS 67-06 M14-72066
REACTIONS BETWEEN VACANCIES AND IMPURITIES IN MAGNESIUM OXIDE. PT. 1. CR3 PLUS-ION IMPURITIES 67-06 M14-72197
REACTIONS BETWEEN VACANCIES AND IMPURITIES IN MAGNESIUM OXIDE. PT. 2. MN4 PLUS-ION AND OH EQUALS -ION IMPURITIES 67-06 M14-72198
EVALUATION OF THE HEATS OF PHASE TRANSITIONS AND VACANCY-FORMATION ENERGIES IN SIMPLE METALS 67-06 M15-70502
CALCULATION OF THE ELECTRICAL RESISTIVITY AND THE THERMOELECTRIC POWER OF VACANCIES IN COPPER AND GOLD 67-06 M15-70715
ATOMIC STRUCTURE OF PLATINUM CRYSTALS ELECTROLYTICALLY OVERGROWN ON FIELD-ION MICROSCOPE TIPS 67-07 M13-72630
DEFECTS DESCRIBED IN QUENCHED ALLOYS 67-07 M13-73083
EQUILIBRIUM VACANCY CONCENTRATION IN PURE PB AND DILUTE PB-TI AND PB-IN ALLOYS 67-07 M13-73145
MULTI-LAYER VACANCY LOOPS IN GRAPHITE 67-07 M13-73148
LATTICE DEFECTS 67-07 M13-73675
OBSERVATIONS OF DEFECTS IN BETA BRASS 67-07 M13-73919
THE DISTRIBUTION OF VACANCIES IN QUENCHED DILUTE ALLOYS 67-07 M13-73932
THE FORMATION AND MOTION ENERGIES OF VACANCIES IN ALUMINIUM 67-07 M14-73142
DIFFUSION AND THE KIRKENDALL SHIFT IN BINARY ALLOYS 67-07 M14-73916
DEPARTURES FROM LINEARITY IN ARRHENIUS PLOTS OF VACANCY CONCENTRATION 67-07 M15-73912
RELAXATION EFFECTS AROUND VACANCIES IN SODIUM METAL 67-07 M16-73631
VACANCY CLUSTERS IN ALPHA-IRON 67-08 M13-74658
DIFFUSION OF NICKEL IN SILICON 67-08 M14-75221
EFFECT OF PRESSURE ON THE DIFFUSION OF FE IN TI AND TI PLUS 10 PER CENT FE 67-08 M14-75225
NEUTRON DIFFRACTION STUDIES ON TITANIUM-CARBON AND ZIRCONIUM-CARBON ALLOYS 67-08 M14-75249
THE AGING PHENOMENA AND LATTICE DEFECTS IN ALUMINIUM ALLOYS. INFLUENCE OF THE THIRD ADDITIONAL ELEMENTS ON THE FORMATION OF GP ZONES IN AL-ZN ALLOY 67-08 M14-75766
VACANCY-LOOP ANNEALING IN HEXAGONAL AND CUBIC LATTICES 67-08 M14-76209
THE MECHANISM OF SUBSTITUTIONAL DIFFUSION IN SILICON 67-08 M16-75242
LEAST-SQUARE DETERMINATION OF THE BINDING ENERGY OF A DIVACANCY IN PLATINUM FROM THE ISOTHERMAL ANNEALING CURVES 67-08 M16-75824
STUDY OF THE FORMATION OF VACANCY FIGURES ON THE SURFACE OF ALUMINUM DURING QUENCHING AT HIGH TEMPERATURES 67-09 M13-77288
VOIDS IN QUENCHED COPPER, SILVER AND GOLD 67-09 M13-77593
VACANCY MODELS FOR CONCENTRATED BINARY ALLOYS. PT. 1. SHORT-RANGE ORDERED AND CLUSTERED ALLOYS 67-09 M13-77595
VACANCY MODELS FOR CONCENTRATED BINARY ALLOYS. PT. 2 67-09 M13-77596
HIGH-TEMPERATURE DEFECT STRUCTURE OF FERROUS OXIDE 67-09 M13-77725
VACANCY CONCENTRATION AND PRECIPITATION IN QUENCHED PURE GOLD AND GOLD-SILVER ALLOYS 67-09 M14-77451
THERMAL TRANSPORT IN TUNGSTEN 67-09 M15-77843
DETERMINATION OF SOLUTE ATOM-VACANCY BINDING ENERGY IN AL-MN 1.04 PER CENT DILUTE ALLOY 67-09 M16-77598
CLIMB KINETICS OF DISLOCATION LOOPS IN ALUMINIUM 67-10 M14-78904
INVESTIGATION OF --FE, MN--1-YO SOLID SOLUTIONS 67-10 M14-80023
ELECTRONIC EXCITATIONS IN METALS 67-10 M16-78309
N. M. R. INVESTIGATION OF THE ATOMIC AND ELECTRONIC STRUCTURE OF VANADIUM AND NIOBIUM CARBIDES 67-10 M16-79117
POSSIBLE RELATIONSHIP BETWEEN PHASE-DIAGRAM AND SOME VACANCY CHARACTERISTICS IN BINARY ALLOYS 67-11 M14-81260
SPECIFIC HEAT, ENTHALPY, AND ENTROPY OF CR5SI3 AND CRSI2 67-11 M15-80494
SOLUTE-VACANCY INTERACTION IN AGE-HARDENING ALLOYS 67-11 M15-81122

X-RAY K ABSORPTION EDGES OF ALLOYS. PT. 1. CORRELATION TO BAND MODELS 67-11 M16-80118
THE ROLE OF THE DEFECT INTERACTION ENERGY ON THE STABILITY OF INTERSTITIAL PHASES 67-11 M16-81120
BINDING ENERGIES AND ENTROPIES OF MULTIPLE VACANCIES IN FCC METALS 67-11 M16-81121
DOUBLY-ASSOCIATED CATION-VACANCY CENTERS IN MAGNESIUM OXIDE 67-11 M16-81683
EXAMINATION OF THE INFLUENCE EXERTED BY THE CONCENTRATION OF VACANCIES ON THE KINETICS OF AGE-HARDENING ALZNMG ALLOY 67-12 M10-83350
THE FORMATION CF VACANCY CLUSTERS IN ALUMINUM 67-12 M13-82549

LATTICE VACANCIES, ALLOYING EFFECTS
THE CALCULATION OF VACANCY CONCENTRATIONS IN DISPERSION-HARDENED ALUMINUM ALLOYS 67-10 M13-78319

LATTICE VACANCIES, COOLING EFFECTS
STUDY OF QUENCHED-IN VACANCIES IN DILUTE AL-ZN ALLOYS 67-05 M14-68893
ON QUENCHED-IN RESISTIVITY IN SAP 67-06 M15-70434
ON QUENCHING EXPERIMENTS IN GOLD 67-10 M10-79028

LATTICE VACANCIES, DIFFUSION
THERMAL DIFFUSION OF VACANCIES IN ALUMINUM 67-06 M14-70412
THE PROBLEM OF DIFFUSION IN METAL CRYSTAL DEFECTS SUCH AS DISLOCATIONS AND BOUNDARIES 67-06 M14-72345

LATTICE VACANCIES, HEATING EFFECTS
VACANCY-DISLOCATION INTERACTIONS IN A BETA BRASS CONTAINING 4 PER CENT ALUMINUM 67-05 M13-69464
KINETICS OF QUENCHED-IN VACANCIES IN PURE PLATINUM 67-10 M14-79008
THE ANNEALING OF QUENCHED-IN VACANCIES IN DILUTE ALUMINIUM ALLOYS 67-11 M10-80302

LATTICE VACANCIES, IMPURITY EFFECTS
STUDY OF THE INTERACTION OF DEFECTS BY MEANS OF THE ANOMALOUS TRANSMISSION OF X-RAYS 67-06 M14-70507

LATTICE VACANCIES, RADIATION EFFECTS
INVESTIGATION OF THE DECOMPOSITION OF VACANCY AGGLOMERATES IN NEUTRON-IRRADIATED NICKEL WITH THE AID OF THE CRITICAL SHEAR STRESS 67-02 M13-61516
ELIMINATION OF DEFECTS IN AL IRRADIATED BY FAST NEUTRONS 67-02 M16-60745
THE FERROMAGNETIC AFTER-EFFECT IN IRRADIATED NICKEL, AND ITS APPLICATION TO THE STUDY OF POINT DEFECTS IN FCC METALS 67-04 M13-67318
RADIATION EFFECTS IN URANIUM 67-04 M14-67322
INFRARED STUDIES OF DEFECT PRODUCTION IN N-TYPE SI--IRRADIATION-TEMPERATURE DEPENDENCE 67-05 M14-69817
ELECTRON MICROSCOPY OF TYPES OF DEFECT CLUSTERS IN IRRADIATED METALS. PT. 1. THEORY OF CONTRASTS AND EXPERIMENTAL METHODS FOR IDENTIFICATION OF DEFECT TYPES 67-05 M16-69782
DEUTERON-IRRADIATION EFFECTS IN AL-4 WT. PER CENT CU 67-06 M14-70438
INTERACTION BETWEEN RADIATION DEFECTS AND DISLOCATIONS IN GERMANIUM 67-06 M16-71917
THE NATURE AND ANNEALING BEHAVIOR OF IRRADIATION DAMAGE IN MOLYBDENUM 67-07 M14-73383
THE INFLUENCE OF IRRADIATION TEMPERATURE ON THE DAMAGE STRUCTURE IN NEUTRON-IRRADIATED MOLYBDENUM 67-08 M16-76205
SOME MEASUREMENTS OF DISLOCATION DAMPING IN NEUTRON IRRADIATED SILVER 67-09 M14-77671
SMALL VACANCY DISLOCATION LOOPS IN NEUTRON-IRRADIATED COPPER 67-09 M16-76597
CLUSTERING IN AL-G. P. ZONE ALLOYS AFTER LOW TEMPERATURE IRRADIATION 67-09 M16-77937
ON THE NATURE OF RECOVERY STAGE 3 IN IRRADIATED AL 67-09 M16-77938
INTERSTITIAL REMOVAL IN STAGE-311 RECOVERY OF NEUTRON-IRRADIATED W 67-10 M14-79280
ENERGY OF MOTION OF VACANCIES IN TUNGSTEN 67-10 M16-79151
DEFECTS IN THE COMPOUND BI2TE3 CAUSED BY IRRADIATION WITH PROTONS 67-10 M16-79152

LATTICE VACANCIES, STRESS EFFECTS
LATTICE DEFECTS IN SHOCK-DEFORMED AND COLD WORKED NICKEL 67-08 M14-75118
TRANSIENT SOFTENING DURING AGING OF SOME ALUMINUM-BASED SOLID SOLUTIONS 67-12 M10-82977

LATTICE VACANCIES, TEMPERATURE EFFECTS
FORMATION OF DIVACANCIES DURING QUENCHING AND ANNEALING IN BODY-CENTERED-CUBIC METALS 67-11 M16-81480

LATTICE VIBRATION
EXPERIMENTAL STUDY OF THE LATTICE DYNAMICS OF DISORDERED VANADIUM ALLOYS 67-03 M13-65028
LOCALIZED MODES OF SUBSTITUTIONAL IMPURITIES IN INTERMETALLIC COMPOUNDS 67-04 M16-66744
INFRARED ABSORPTION OF LOCALIZED VIBRATION DUE TO LITHIUM IN ZINC SELENIDE AND CADMIUM SULFIDE 67-04 M16-66745
AN ANALYSIS OF LATTICE VIBRATIONS OF ORDERED FE3AL 67-05 M14-69577
DEBYE-WALLER FACTORS OF COPPER AND GOLD 67-05 M15-69673
ELASTIC CONSTANTS AND CALCULATED LATTICE VIBRATION FREQUENCIES OF MG2SN 67-05 M17-69576
LATTICE DYNAMICS OF THE ALLOY SYSTEMS BI-PB-TL 67-06 M16-70088
THE LATTICE VIBRATIONS OF NICKEL IN KREBS MODEL 67-06 M16-70988
LATTICE DYNAMICS OF MGO 67-06 M16-70990
INFRARED ACTIVE LATTICE MODES IN TELLURIUM 67-06 M16-71169
IDENTIFICATION OF THE FUNDAMENTAL VIBRATIONAL MODES OF TRIGONAL, ALPHA-MONOCLINIC AND AMORPHOUS SELENIUM 67-06 M16-71170
THEORETICAL AND EXPERIMENTAL ASPECTS OF THE EFFECTS OF POINT DEFECTS AND DISORDER ON THE VIBRATIONS OF CRYSTALS. PT. 2 67-07 M13-73113
LATTICE SPECIFIC HEATS OF THALLIUM AND YTTRIUM 67-07 M15-72949
LATTICE DYNAMICS OF ALUMINUM 67-07 M16-74016
THE VARIATION WITH TEMPERATURE OF ATOMIC VIBRATION AMPLITUDES IN IRON 67-08 M13-74391
LATTICE DYNAMICS OF NICKEL 67-08 M13-74793
LATTICE VIBRATIONS IN IRON AT 296K 67-08 M13-75001
RAMAN SPECTRA OF CAWO4, SRWO4, CAMOO AND SRMOO4 67-09 M13-77179
MIGRATION OF LOCALIZED IMPERFECTIONS AND ANELASTIC RELAXATION DUE TO DISLOCATIONS IN TANTALUM 67-09 M13-78165
LATTICE VIBRATIONS AND LOCAL ORDER IN SUBSTITUTIONAL SOLID SOLUTIONS. PT. 1 67-09 M16-76736
LATTICE DYNAMICS OF NICKEL 67-09 M16-77748
INVESTIGATION OF INELASTIC NEUTRON SCATTERING BY A CRYSTAL WITH LIGHT IMPURITY ATOMS 67-10 M16-79463
DETERMINING THE STRENGTH OF THE INTERATOMIC BOND BY THE CHARACTERISTIC TEMPERATURE 67-10 M17-79231
NEUTRON DIFFRACTION STUDY OF THE DEBYE-WALLER FACTOR FOR ALUMINUM 67-11 M16-80488

LATTICE VIBRATION, RADIATION EFFECTS
LATTICE VIBRATIONS OF VANADIUM BY INELASTIC SCATTERING OF SLOW NEUTRONS 67-10 M16-78498

LATTICE VIBRATION, TEMPERATURE EFFECTS
VIBRATION SPECTRA AND DEBYE TEMPERATURES OF SILVER AND GOLD 67-02 M15-59474
THE EFFECT OF THE OCCLUSION OF HYDROGEN ON THE CHARACTERISTIC TEMPERATURE OF PALLADIUM AND THE VIBRATION AMPLIT DIES OF ITS ATOMS 67-08 M13-74390

LATTICES
SEE BODY CENTERED CUBIC LATTICE
CRYSTAL LATTICES
FACE CENTERED CUBIC LATTICE
HEXAGONAL LATTICE
MONOCLINIC LATTICE
ORTHORHOMBIC LATTICE
TETRAGONAL LATTICE

LAUE METHOD
THE ORIENTATION OF SINGLE CRYSTALS WITH THE LAUE BACK-REFLECTION METHOD 67-02 M13-59622
SOME CRYSTALLOGRAPHICAL APPLICATIONS OF THE GONIOMICROSCOPE 67-02 M13-60264
AN ABSOLUTELY PRECISE DETERMINATION OF THE LATTICE CONSTANTS OF SI SINGLE CRYSTALS BY ELECTRON DIFFRACTION 67-07 M13-72757
THE INFLUENCE OF HIGH-PHONON FLUX DENSITIES ON THE X-RAY REFLECTIVITY OF NEARLY IDEAL CDS CRYSTALS 67-08 M16-75253
TENSILE DEFORMATION IN IRON SINGLE CRYSTAL PLATES OBSERVED BY THE DIVERGENT X-RAY METHOD 67-08 M17-74603

LAUE METHOD
TEXTURE DEVELOPMENT AND CRYSTAL PERFECTION IN NIOBIUM --COLUMBIUM-- ANNEALED AT 2000 C 67-11 M13-81354
LAUE X RAY METHODS
SEE LAUE METHOD
LAUNDERING
SEE WASHING
LAUNDERS
SEE TROUGHS
LAUNDERS FOR MOLTEN METALS
SEE RUNNERS
LAVES PHASE
LAVES PHASES OF THE SCANDIUM GROUP ELEMENTS WITH RUTHENIUM, RHODIUM, OSMIUM, IRIDIUM, AND PLATINUM 67-02 M13-59443
LAVES PHASES IN THE SCANDIUM-IRON SYSTEM 67-05 M13-68593
STRUCTURE OF THE TAV2 PHASE 67-05 M13-69238
LAVES PHASES IN THE SCANDIUM-IRON SYSTEM 67-06 M13-70907
PHASE-RELATIONS IN COPPER-CADMIUM-ZINC-ALLOYS 67-06 M14-71859
TOPOLOGICALLY CLOSE-PACKED STRUCTURES 67-07 M13-73672
EXTENT AND LATTICE PARAMETERS OF THE LAVES PHASE FIELD IN THE FE-NB-SI SYSTEM 67-07 M13-74174
STRUCTURAL CHARACTERISTICS AND CRYSTALLOCHEMISTRY OF BINARY MAGNESIUM COMPOUNDS 67-08 M13-75437
STRUCTURAL STUDY OF NIOBIUM-IRON ALLOYS 67-10 M14-78481
STUDIES OF PSEUDO-BINARY LAVES-PHASE SYSTEMS CONTAINING LANTHANIDES. PT. 1. CONSTITUTION AND MAGNETIC PROPERTIES OF THE GDAL2-GDFE2, GDAL2-GDCO2 AND ERCO2-ERAL2 SYSTEMS 67-11 M13-80314
ELECTRON CONCENTRATION AND PHASE STABILITY IN LAVES PHASES AND NI-AL ALLOYS 67-11 M14-81112
THE CRYSTAL STRUCTURE OF THE LAVES PHASE IN MG-ZN-AG-SYSTEM. PT. 1 67-12 M13-81768
SUPERCONDUCTIVITY OF CECO2 67-12 M16-82294
LD CONVERTERS
DETERMINATION AND INFLUENCE OF JET CHARACTERISTICS IN THE LD AND LD-AC PROCESSES 67-02 M04-60691
LD AND LD-AC OPERATING EXPERIENCE 67-03 M04-65518
THE LD-AC WORKS OF ARBED-ESCHBELVAL 67-05 M04-68539
COMPUTERIZED CONTROL OF THE BASIC OXYGEN LD PROCESS. PT. 1. THE CARBON ELIMINATION REACTION IN THE BASIC OXYGEN LD FURNACE AND THE POSSIBILITY OF CONTINUOUS DETERMINATION OF THE BATH CARBON CONTENT 67-05 M04-69062
REMOVAL OF SULFUR IN THE GAS PHASE OF THE BASIC OXYGEN LD PROCESS 67-05 M04-69063
SURVEY OF LARGE LD FURNACE CONFIGURATIONS 67-05 M04-69485
THE METALLURGY OF THE LD-KALDO PROCESS 67-06 M04-71701
CONTINUOUS THERMOCOUPLE MONITORING OF LD FURNACE BATH TEMPERATURE 67-06 M04-72076
PERFORMANCE OF MULTIHOLE COMPARED WITH SINGLE-HOLE LANCE NOZZLES IN BASIC OXYGEN LD STEELMAKING. PT. 2. STUDY OF LANCE NOZZLES IN BASIC OXYGEN LD PROCESS 67-06 M04-72205
REFINING IN BASIC OXYGEN LD STEELMAKING 67-06 M04-72206
INVESTIGATION INTO VARIOUS PHENOMENA IN THE BASIC OXYGEN LD FURNACE, USING ROOM TEMPERATURE MODELS 67-06 M04-72212
PRODUCTION OF CARBON AND ALLOY CONSTRUCTIONAL STEELS IN A BASIC OXYGEN LD FURNACE 67-06 M04-72272
OPERATION OF THE HIROHATA --JAPAN--BASIC OXYGEN LD PLANT ON LOW HOT METAL CHARGES 67-06 M04-72284
SEPARATION OF EMULSIFIED SLAG FROM MOLTEN STEEL IN THE BASIC OXYGEN LD PROCESS. PT. 8. USE OF RADIOISOTOPES IN STEELMAKING 67-06 M04-72287
ON THE MELTING RATES OF SCRAP AND COLD PIG IRON IN THE BASIC OXYGEN LD PROCESS 67-06 M04-72382
CHANGES TO BLOWING CONDITIONS IN SINGLE-HOLE OXYGEN LANCE NOZZLE OPERATION. PT. 1. STUDY OF LANCE NOZZLES IN BASIC OXYGEN LD FURNACE 67-06 M04-72384
EFFECT OF BATH MOTION ON SPLASHING OF BASIC OXYGEN FURNACE BATH. PT. 2. A STUDY OF VARIOUS PHENOMENA IN BASIC OXYGEN LD FURNACES, BASED ON ROOM-TEMPERATURE MODELS 67-06 M04-72386
THE DROP IN TEMPERATURE BETWEEN THE END POINT OF THE BLOW AND THE TAP IN THE BASIC OXYGEN LD PROCESS. PT. 1. THE TEMPERATURE DROP BETWEEN END POINT OF BLOW AND POURING IN THE BASIC OXYGEN LD PROCESS 67-06 M04-72387
PROGRESS IN THE USE OF THE MULTIHOLE OXYGEN LANCE NOZZLE AT THE TSURUMI, JAPAN, BASIC OXYGEN LD PLANT 67-06 M04-72388
USE OF COLD PIG IRON IN THE BASIC OXYGEN LD FURNACE 67-07 M04-72435
OPERATING RESULTS WITH THE USE OF MULTIPLE-HOLE LANCE NOZZLES AT THE NO. 1 BASIC OXYGEN LD PLANT AT TOBATA --JAPAN-- 67-07 M04-72548
SIMULTANEOUS OPERATION OF BOTH OF THE TWO FURNACES MAKING UP THE NO. 2 TOBATA BASIC OXYGEN LD PLANT 67-07 M04-72549
PRODUCTION OF HIGH-GRADE KILLED STEELS IN THE BASIC OXYGEN LD FURNACE. PT. 4. THE PRODUCTION OF ALLOY STEELS IN THE BASIC OXYGEN FURNACE 67-07 M04-72550
FUNDAMENTAL CONDITIONS FOR THE PRODUCTION OF ALLOY STEELS IN THE BASIC OXYGEN LD FURNACE. PT. 1. THE PRODUCTION OF ALLOY STEELS IN A BASIC OXYGEN FURNACE 67-07 M04-72567
IMPORTANCE OF THE BASIC OXYGEN LD PROCESS FOR STEEL FOUNDRIES. PT. 1 67-07 M04-73248
PROPERTIES OF ALLOY STEELS PRODUCED IN A BASIC OXYGEN LD FURNACE. PT. 3. THE PRODUCTION OF ALLOY STEELS IN A BASIC OXYGEN FURNACE 67-07 M17-72551
LD-PROCESS AS APPLIED TO PRODUCTION OF STEEL CASTINGS 67-08 M04-76166
OPERATIONAL ASPECTS OF CONTROL OF COMPOSITION IN STEELMAKING IN AUSTRALIAN STEEL PLANTS 67-09 M04-76421
EFFECTS OF BLOWING CONDITIONS ON BLOWING REACTIONS IN LD-CONVERTER 67-09 M04-77330
OXYGEN STEELMAKING--SOME ASPECTS OF QUALITY 67-10 M04-79301
MULTINOZZLE TUYERES IN THE LD PROCESS 67-12 M04-81781
LD CONVERTERS, AUTOMATIC CONTROL
COMPUTER APPLICATIONS IN THE CONTROL OF THE LD PROCESS IN A CONVERTER STEEL WORKS 67-03 M04-65077
LD CONVERTERS, AUTOMATION
LABORATORY ELECTRIC CONVERTER 67-07 M04-73050
LD CONVERTERS, CHARGING
EFFECT OF THE AMOUNT OF HOT METAL CHARGED UPON THE BASIC OXYGEN LD PROCESS 67-05 M04-69064
LD CONVERTERS, DESIGN
ENGINEERING EXPERIENCE IN BASIC OXYGEN STEELWORKS 67-06 M04-71947
LANCE AND VESSEL IMPROVEMENT IN LD PRACTICE 67-06 M04-71952
PRODUCTION OF STEEL BY THE BASIC OXYGEN LD PROCESS IN LARGE FURNACES 67-07 M04-72559
NEW WAYS OF DESIGNING LARGE REFINING VESSELS AND STEELMAKING PLANTS FOR THE LD PROCESS 67-11 M04-80116
LD CONVERTERS, LINERS
EROSIVE WEAR OF WORKING LINING OF BASIC OXYGEN LD FURNACE 67-07 M04-72557
LD CONVERTERS, MAINTENANCE
MAINTENANCE OF THE VESSEL, CONTROLS, AND LANCE AT SPENCER WORKS 67-06 M04-71950
LD CONVERTERS, PRESSURE EFFECTS
THEORETICAL POSSIBILITIES OF OPERATING THE L-D PROCESS AT HIGH PRESSURE 67-08 M04-75310
LD CONVERTERS, WEAR
PROLONGING LINING LIFE IN AN LD VESSEL 67-06 M05-71951
LD FURNACES
SEE LD CONVERTERS
LD OXYGEN PROCESS
SEE LD CONVERTERS
LDAC PROCESS
LD AND LD-AC OPERATING EXPERIENCE 67-03 M04-65518
ON THE LD-AC AND LD-KALDO PROCESSES 67-05 M04-68538
OUTLINE OF THE BASIC OXYGEN LD-AC PLANT AND OPERATING RESULTS AT KAWASAKI, JAPAN, WORKS. PT. 1. --ON THE LD-AC PROCESS AT NIHON STEEL TUBE KAWASAKI WORKS-- 67-07 M04-72441
SLAG FORMATION DURING TOP-BLOWING OF OXYGEN WITH CRUSHED LIME ONTO PIG IRON RICH IN PHOSPHORUS 67-07 M04-73284

CHEMICAL ENGINEERING ASPECTS OF THE LD AND ASSOCIATED PROCESSES 67-12 M04-83073

LEACHING
SEE ALSO ACID LEACHING
ALKALINE LEACHING
LEACHING OF COPPER AND ZINC FROM CONCENTRATES OF OXIDIZED AND MIXED COPPER-LEAD-ZINC ORES 67-01 M03-58066
BACTERIAL METHOD OF INTENSIFYING UNDERGROUND LEACHING OF SULFIDE ORES 67-01 M03-58067
PROPERTIES OF TITANIUM PREPARED BY SODIUM REDUCTION PROCESS 67-01 M03-58544
CHEMICAL BENEFICIATION OF TANTALUM NIOBIUM IRON PRODUCTS USING HYDROCHLORIC ACID 67-02 M02-59546
DEVELOPMENT AND STUDY OF THE CHEMICAL PROCESS OF MANGANESE RECOVERY FROM SLURRIES 67-02 M02-59692
STUDY OF AUTOCLAVE LEACHING OF SULFIDE MINERALS 67-02 M02-59852
A HYDROCHEMICAL METHOD OF REPROCESSING ALUMINA-BEARING RAW MATERIALS 67-02 M02-61546
FACTORS INFLUENCING THE APPLICATION OF BACTERIAL LEACHING TO A CANADIAN URANIUM ORE 67-02 M02-61585
THE STUDIES ON THE POSSIBILITIES OF THORIUM RECOVERING FROM POLISH THORIUM ORES 67-02 M03-59129
AUTOCLAVE LEACHING OF NICKEL MATTES 67-02 M03-59191
KINETICS OF EXTRACTION OF AL2O3 FROM SINTER IN COUNTERFLOW LEACHING APPARATUS 67-02 M03-59192
SEPARATION OF ANTIMONY AND ARSENIC IN THE PRODUCTION OF METALLIC ANTIMONY AND ITS COMPOUNDS 67-02 M03-59844
DECOMPOSITION OF LEAN ZIRCON-PYROCHLORE CONCENTATES BY HYDROFLUORIC ACID 67-02 M03-59850
DECOMPOSITION OF TANTALITE CONCENTRATES BY CAUSTIC POTASH AND CAUSTIC SODA SOLUTIONS AT ELEVATED TEMPERATURES AND PRESSURES 67-02 M03-59879
SOLUBILITY OF BINARY NICKEL AND IRON SULFIDES DURING OXIDIZING SULFURIC ACID LEACHING IN AUTOCLAVES 67-02 M03-60563
HYDROMETALLURGICAL SEPARATION OF METALLIZED COPPER-NICKEL CONVERTER MATTE 67-02 M03-60565
REMOVAL OF IMPURITIES FROM ZINC SOLUTIONS OBTAINED IN PRESSURE LEACHING 67-02 M03-60954
VIBRATORY LEACHING OF VALUABLE CONSTITUENTS FROM MINERAL MATERIAL 67-02 M03-60957
CLIMAX DEDICATES ACID LEACH-CHARCOAL ADSORPTION PROCESS FOR MOLY OXIDE ORES 67-03 M02-65107
NEW WAY TO WIN MOLY 67-03 M02-65115
RATE OF SOLUBILITY OF CHRYSOCOLLA AND MALACHITE DURING AGITATIONAL SULFURIC ACID LEACHING 67-03 M03-65575
FIRST CHEMICAL ROUTE FOR MOLYBDENUM PROCESSING 67-04 M02-66331
OBTAINING MANGANESE FROM LEAN MANGANESE CARBONATE ORES BY HYDROMETALLURGICAL METHODS. PT. 1. WET EXTRACTION OF MANGANESE BY SOLUTIONS CONTAINING SULFURIC ACID. PT. 2. PURIFYING THE SOLUTIONS OBTAINED BY LEACHING THE ORES WITH SULFURIC ACID 67-04 M02-67227
LEACHING ROASTED ZN-CU-PB CONCENTRATES WITH SULFURIC ACID UNDER PRESSURE 67-04 M02-67857
SILO-LEACHING--A NEW HYDRO-METALLURGICAL APPROACH 67-04 M02-68046
USE OF SPONGE IRON IN THE V-TROUGH PRECIPITATOR 67-04 M03-66892
EXTRACTION OF EUXENITE METAL VALUES BY FUSION WITH AMMONIUM SULFATE OR AMMONIUM BISULFATE 67-04 M03-67031
EXTRACTING RHENIUM FROM UNTREATED MOLYBDENUM SULFIDE CONCENTRATES 67-04 M03-67128
CHEMICAL CONVERSION OF MANGANESE ORES 67-04 M03-67160
EFFECT OF THE WASHING PROCESS ON THE SETTLING RATE OF RED MUDS FROM ALUMINA PRODUCTION 67-04 M03-67529
PRODUCTION OF ZINC ELECTROLYTE FROM WAELZ OXIDES 67-04 M03-68049
INVESTIGATION OF LEACHING ALUMINUM-NICKEL ALLOYS FOR THE PREPARATION OF SKELETAL CATALYSTS 67-04 M13-67844
THE SULFURIC ACID METHOD OF COMPLEX PROCESSING LOCAL SERPENTINES 67-05 M02-69302
PROCESSING OF HIGH-IRON ARKANSAS BAUXITE ORES 67-05 M02-69559
METHOD OF LEACHING BAUXITES 67-06 M02-70933
METHOD OF PROCESSING HIGH-SILICA HYDRAGILLITE BAUXITES 67-06 M02-70940
RECOVERY OF VANADIUM FROM KACHKANARSK IRON CONVERTER SLAGS 67-06 M02-70950
PROCESSING ARSENIC-CONTAINING NICKEL-COBALT ORES 67-06 M02-71128
METHODS FOR PRODUCING ALUMINA FROM CLAY 67-06 M02-71556
ADAPTATION OF THE PEDERSEN PROCESS TO THE FERRUGINOUS BAUXITES OF THE PACIFIC NORTHWEST 67-06 M02-72082
AUTOCLAVE LEACHING OF FELDSPAR ROCK 67-06 M02-72108
INVESTIGATION OF LEACHING OF MOLYBDENUM CONTAINING PRODUCTS WITH SODA AND CHLORINE 67-06 M03-71302
EXTRACTION OF SELENIUM AND TELLURIUM FROM SULFURIC ACID AND CELLULOSE-PAPER PRODUCTION SLIMES BY THE SULFIDIC METHOD 67-06 M03-72116
THE PROMOTION OF ACID DISSOLUTION OF ZINC-FERRITE. PT. 5. STUDY ON ZINC-FERRITE 67-06 M14-71736
THE USE OF PACHUCA TANKS IN HYDROMETALLURGY 67-07 M02-74097
COPPER PRECIPITATION METHODS AT WEED HEIGHTS 67-07 M03-73093
NEW METHOD SUGGESTED FOR LEACHING URANIUM ORE IN PLACE 67-08 M02-74364
COPPER PRECIPITATION METHODS AT WEED HEIGHTS 67-08 M03-75500
CHEMICALLY STRENGTHENED, LEACHED ALUMINA AND SPINEL 67-08 M17-76090
THE RECOVERY OF COBALT BY THE SOLUBLE COBALTIC AMMINE PROCESS 67-09 M03-76740
CONTRIBUTION TO THE PRESSURE LEACHING OF COPPER SULFIDES 67-09 M03-77806
THE TREATMENT OF REFRACTORY COPPER ORES BY THE SEGREGATION PROCESS 67-10 M02-78313
CHEMICAL BENEFICIATION OF QUILON ILMENITE BY HIGH TEMPERATURE HYDROCHLORIC ACID LEACHING 67-10 M02-78758
KINETICS OF DISSOLUTION OF SYNTHETIC COVELLITE IN AQUEOUS ACIDIC FERRIC SULPHATE SOLUTIONS 67-10 M02-79949
RECOVERY OF VALUABLE METALS FROM SLAGS, LEACHED RESIDUES AND SCRAPS BY A WET OXIDATION METHOD 67-10 M03-78742
ALKALI-ELECTROLYTIC METHOD FOR EXTRACTION OF ARSENIC FROM CONVERTER DUST 67-10 M03-79037
INVESTIGATIONS OF THE POSSIBILITY OF EXTRACTING MANGANESE FROM LEAN MANGANESE ORES 67-10 M03-79859
INVESTIGATIONS OF THE POSSIBLE REDUCTION IN THE CONSUMPTION OF REAGENTS IN THE PROCESS OF LEACHING URANIUM FROM ORE 67-10 M03-79866
ON THE PROBLEM OF LEACHING RED SLIME THROUGH HYDROGARNETS 67-10 M03-80055
WHITE PINE EXPERIMENTS WITH CYANIDE LEACHING OF COPPER TAILINGS 67-11 M02-80670
ELECTROCHEMISTRY AND THE EXTRACTION OF MANGANESE AND ITS COMPOUNDS 67-11 M03-80425
LEACHING PRECISION CASTINGS 67-11 M12-81362
COPPER LEACHING WITH CYANIDE--A REVIEW OF FIVE INVENTIONS 67-12 M02-82668
CHEMICAL BENEFICIATION OF QUILON ILMENITE BY HIGH TEMPERATURE HYDROCHLORIC ACID LEACHING 67-12 M02-83127
UTILIZATION OF SPANISH MANGANESE ORES. PT. 2. LABORATORY LEACHING STUDIES 67-12 M02-83586
FACTORS INFLUENCING THE KINETICS OF NICKEL LEACHING IN AN AMMONIA SOLUTION 67-12 M03-81785
ON THE AUTOCLAVE SALT LEACHING OF COBALT-BEARING SEMIFINISHED PRODUCTS FROM THE NICKEL INDUSTRY 67-12 M03-83317

LEACHING, BACTERIA
FACTORS INFLUENCING THE APPLICATION OF BACTERIAL LEACHING TO A CANADIAN URANIUM ORE 67-08 M03-74952

LEAD /METAL/
LEAD METALLURGY 67-12 M01-82076

LEAD /METAL/, ACOUSTIC PROPERTIES
TWO CASES OF SHOCK-WAVE PROPAGATION IN A METAL 67-04 M15-68011
RECENT DEVELOPMENTS FOR LEAD IN SOUND CONTROL 67-09 M20-76616

LEAD /METAL/

THE USE OF THIN LEAD SHEETS FOR SOUND INSULATING PARTITIONS 67-09 M20-76617

LEAD /METAL/, ALLOYING ADDITIVE

SECOND-KIND SUPERCONDUCTIVITY OF INDIUM-LEAD ALLOYS 67-03 M16-65635

THE EFFECT OF TRACE ELEMENTS ON THE DEFORMATION BEHAVIOR OF A HIGH-TEMPERATURE NICR STEEL 67-04 M17-67410

LEAD IN CAST IRON 67-06 M06-70496

EFFECT OF LEAD ON MACHINABILITY OF CEMENTED STEELS 67-08 M08-75399

THE ROLLING FATIGUE PROPERTIES OF CASE-HARDENING ALLOY STEELS WITH OR WITHOUT LEAD ADDITION 67-08 M17-75753

ALUMINUM GALVANIC ANODES. PT. 2 67-08 M18-75373

EFFECT OF SPECIMEN SURFACE PREPERATION ON THE ACCURACY OF X-RAY FLUORESCENCE ANALYSIS OF LEADED COPPER ALLOYS 67-09 M13-76676

MEASURING MACHINABILITY 67-10 M08-79764

TEMPERATURE MEASUREMENTS AND FLUID FLOW DISTRIBUTIONS AHEAD OF SOLID-LIQUID INTERFACES 67-12 M14-82744

LEAD /METAL/, ALLOYING EFFECTS

THERMODYNAMIC PROPERTIES OF LIQUID MAGNESIUM-LEAD ALLOYS 67-12 M15-82581

LEAD /METAL/, ATOMIC PROPERTIES

INELASTIC SCATTERING OF ELECTRONS IN BERYLLIUM AND LEAD FOR HIGH ANGLES OF INCIDENCE OF THE PRIMARY BEAM 67-06 M16-71768

LEAD /METAL/, ATOMIZING

THE MECHANISM OF BREAKING THE LIQUID METAL STREAM BY A GAS JET 67-08 M09-75423

LEAD /METAL/, ATTENUATION

ULTRASONIC ATTENUATION IN NORMAL AND SUPERCONDUCTING LEAD--ELECTRONIC DAMPING OF DISLOCATIONS 67-07 M16-73817

LEAD /METAL/, BENEFICIATION

AT WORLDS NONFERROUS PLANTS --OXYGEN SMELTING GETS MAJOR PUSH 67-01 M03-58573

HYDROMETALLURGICAL PROCESSING OF LEAD-CONTAINING SLIP 67-06 M03-70331

LEAD /METAL/, BINARY SYSTEMS

AUGMENTED NATURAL CONVECTION AND EQUIAXED GRAIN STRUCTURE IN CASTING 67-01 M06-57427

THE PARTIAL LEAD-SELENIUM --0 TO 76 AT. PER CENT SE -- PHASE DIAGRAM 67-01 M14-57424

THE STUDY OF FUSING OF VARIOUS ALLOYS MADE BY MEANS OF X-RAY FLUORESCENCE ANALYSIS 67-02 M14-60122

DIFFUSION OF SILVER IN MOLTEN LEAD-TIN ALLOYS 67-03 M14-65847

DIFFUSION OF SILVER IN MOLTEN LEAD-BISMUTH AND TIN-BISMUTH ALLOYS 67-03 M14-65848

EFFECT OF THE STRUCTURE OF AN INTERMETALLIC COMPOUND ON THE THERMODYNAMIC PROPERTIES OF METALLIC SYSTEMS 67-04 M13-66013

PRACTICE OF THERMODYNAMIC ANALYSIS OF BINARY SYSTEMS OF METALS WITH INTERMETALLIC BONDS 67-04 M13-67451

STUDY OF PHASE DIAGRAMS IN BINARY SYSTEMS BASED ON ISOACTIVITIES 67-04 M13-67849

SELF-DIFFUSION OF ANTIMONY IN SB-SN AND SB-PB LIQUID ALLOYS 67-04 M14-67389

DESEGREGATION AND RESEGREGATION AS OBSERVED BY HIGH-TEMPERATURE MICROSCOPY 67-05 M14-68587

SELF-DIFFUSION IN MOLTEN ALLOYS OF SN-SB, SN-PB AND SN-ZN 67-06 M14-70904

P-T-X PHASE DIAGRAM OF THE LEAD TELLURIDE SYSTEM 67-06 M15-72046

LATTICE DYNAMICS OF THE ALLOY SYSTEMS BI-PB-TL 67-06 M16-70088

AN INTERPRETATION OF THE SUPERPLASTICITY PHENOMENON IN TWO-PHASE ALLOYS 67-06 M17-71075

THE PRESSURE RELATIONSHIP BETWEEN THE KIRKENDALL EFFECT AND THE SELF-DIFFUSION IN A PB-TL SYSTEM 67-07 M14-72450

PHASE RELATIONS AND THERMOELECTRIC PROPERTIES OF THE ALLOY SYSTEMS, SNTE-BI2TE3 AND PBTE-SB2TE3 67-07 M14-73462

THE YTTRIUM-LEAD ALLOY SYSTEM 67-08 M13-75966

THE STRUCTURES OF THE BI-SN, BI-PB AND BI-TL EUTECTICS 67-08 M13-76053

THE STRUCTURE OF SOME EUTECTICS WITH HIGH RATIOS OF THE VOLUME FRACTIONS 67-08 M14-76054

HEAT OF MIXING OF ANTIMONY WITH B-METALS. PT. 3. THE SYSTEM WITH TIN AND LEAD 67-10 M15-78741

STUDY OF CERTAIN THERMODYNAMIC PROPERTIES OF THE PH-HG SYSTEM 67-11 M15-81178

TRANSITION TEMPERATURE OF PB-IN AND PB-TL ALLOYS 67-11 M16-80720

THE EUROPIUM-LEAD SYSTEM 67-12 M13-81827

STUDY OF THE LIQUIDUS RELATIONS IN EQUILIBRIUM DIAGRAMS FOR PHASES WITH A DEFINITE COMPOSITION APPLICATION TO THE ESTIMATION OF THE LATENT HEAT OF FUSION 67-12 M13-82697

YTTERBIUM-LEAD SYSTEM 67-12 M13-82851

INVESTIGATION OF THE PBSE-GESE AND GESE-GETE SYSTEMS 67-12 M13-83352

ANALYSIS OF THE THERMODYNAMIC PROPERTIES OF SOLID LEAD-BISMUTH-ALLOYS 67-12 M14-82051

THE DENDRITE-EUTECTIC TRANSITION 67-12 M14-82863

THE INFLUENCE OF DISPLACEMENT REACTIONS ON THE ELECTROCHEMICAL DETERMINATION OF THE ACTIVITY COEFFICIENT OF ONE CONSTITUENT IN A BINARY ALLOY 67-12 M15-82593

LEAD /METAL/, BONDING

THE PROBLEM OF JOINING AL TO PB AND PB TO FE 67-01 M11-58624

LEAD /METAL/, CASTING

CONTINUOUS CASTING OF NON-FERROUS METAL BILLETS AND SLABS. PT. 1 67-02 M03-61644

LEAD PRODUCTS BY CONTINUOUS CASTING 67-09 M03-76618

LEAD /METAL/, CHEMICAL ANALYSIS

POLAROGRAPHIC METHODS OF SIMULTANEOUS DETERMINATION OF TIN, NICKEL, LEAD AND ZINC IN BRONZE 67-01 M19-57495

POLAROGRAPHIC DETERMINATION OF BISMUTH AND COPPER IN REFINED LEAD 67-01 M19-58732

ANALYSIS OF HIGH-PURITY LEAD 67-02 M19-59168

DIRECT ELECTROCHEMICAL DETERMINATION OF THE OXYGEN CONTENT OF METAL MELTS. PT. 2. INVESTIGATIONS CARRIED OUT ON SILVER, TIN AND LEAD MELTS 67-09 M19-77190

LEAD /METAL/, COATINGS

PLATING LEAD ON STEEL AT HIGH SPEED 67-02 M12-58973

SOME EXAMPLES OF THE USE OF FLAME-SPRAYED COATINGS FOR PROTECTION AGAINST HOT GASES 67-02 M12-62026

CLADDING STEEL WITH LEAD BY POWDER ROLLING 67-04 M12-68106

METALLIZING. PT. 9 67-06 M12-72136

LEAD AND ZINC--PARTNERS IN PROGRESS 67-07 M20-74293

SOME NEW APPROACHES TO THE USE OF LEAD IN THE CONSTRUCTION OF CHEMICAL PIPES AND CONTAINERS 67-09 M20-76614

WELDING OF PRESERVED ROLLED STEEL 67-11 M11-80871

SUPERPLASTICITY IN ELECTROPLATED COMPOSITES OF LEAD AND TIN 67-12 M17-83053

LEAD /METAL/, CONCENTRATION /COMPOSITION/

THE DETERMINATION OF SMALL QUANTITIES OF PB AND BI IN ALNICO AND SIMILAR ALLOYS 67-09 M19-77588

LEAD /METAL/, CORROSION

HOT CORROSION OF REFRACTORY ALLOYS BY COMBUSTION DEPOSITS CONTAINING LEAD 67-01 M18-57161

THE CORROSION BEHAVIOR OF PB AND PB ALLOYS IN SULFURIC ACID 3 67-01 M18-58628

THE CORROSION OF ZINC, CADMIUM AND LEAD IN GAPS 67-02 M18-60797

MATERIALS OF CONSTRUCTION 67-03 M20-65696

THE CORROSION BEHAVIOR OF PB AND PB ALLOYS IN H2SO4. PT. 4 67-05 M18-68585

CORROSION OF SOME METALS AND ALLOYS IN ALUMINUM ALLOY 67-06 M18-70177

THE EXAMINATION OF CORROSION PRODUCTS AND PROCESSES. PT. 2. POTENTIOSTATS 67-09 M18-76634

CRITERIA OF SOIL AGGRESSIVENESS TOWARDS BURIED METALS. PT. 3. VERIFICATION OF PREDICTED BEHAVIOR OF SELECTED SOILS 67-09 M18-77488

ANODIC CORROSION OF LEAD IN A SULPHURIC ACID SOLUTION UNDER THE INFLUENCE OF PERCHLORIC ACID 67-10 M18-78921

LEAD /METAL/, CRYSTAL GROWTH

THE RECRYSTALLIZATION OF PURE PB 67-08 M14-76261

LEAD /METAL/, CRYSTAL LATTICES

MECHANISM FOR VISCOUS GRAIN-BOUNDARY SLIDING 67-04 M14-66681

THE THEORY OF STACKING-FAULT ENERGIES IN CLOSE-PACKED METALS 67-05 M13-68759

EQUILIBRIUM VACANCY CONCENTRATION IN PURE PB AND DILUTE PB-TI AND PB-IN ALLOYS

67-07 M13-73145
NEUTRON DIFFRACTION 67-08 M13-74692
LEAD /METAL/, DIFFUSION
ON GRAIN BOUNDARY SELF-DIFFUSION OF LEAD. PT. 1. ORIENTATION DEPENDENCE 67-01 M14-58464
ON GRAIN BOUNDARY SELF-DIFFUSION OF LEAD. PT. 2. EFFECT OF SOLUTES 67-01 M14-58465
EFFECT OF ALPHA BOMBARDMENT ON THE DIFFUSION OF LEAD IN SILVER 67-02 M14-58951
SOME RELATIONSHIPS BETWEEN SELFDIFFUSION AND MELTING BEHAVIOR OF METALS 67-02 M14-60881
CALCULATION OF DIFFUSION PARAMETERS 67-02 M14-61918
DIFFUSION CONSTANTS IN LIQUID LEAD-TIN ALLOYS 67-04 M14-66175
INTERSTITIAL SOLUTIONS OF NOBLE METALS IN METALS AND SEMICONDUCTORS 67-04 M14-67540
METHOD OF INVESTIGATING THE KINETICS OF THE INTERACTION OF TWO LIQUID PHASES UNDER CONTROLLED CONVECTION CONDITIONS 67-12 M14-82105
LEAD /METAL/, DISSOLVING
DETERMINATION OF THE DISSOLUTION RATE OF MATERIALS IN LIQUID METALS 67-02 M14-60978
INVESTIGATION OF THE DISSOLUTION KINETICS OF METALS IN METALLIC MELTS BY THE ROTARY DISK METHOD --CU-PB SYSTEM-- 67-09 M14-76428
LEAD /METAL/, ELECTRICAL PROPERTIES
SUPPRESSION OF SURFACE SUPERCONDUCTIVITY BY COATING WITH A NORMAL METAL 67-02 M16-60257
THE TEMPERATURE AND FIELD DEPENDENCE OF THE GALVANOMAGNETIC PROPERTIES OF LEAD AND THE INFLUENCE OF THE SAMPLE SIZE 67-03 M15-65367
NEW MEASUREMENTS OF THE ELECTROMAGNETIC ABSORPTION SPECTRUM OF SUPERCONDUCTING LEAD 67-06 M16-70637
QUENCHED THIN PB FILMS. COMPARISON OF MEAN FREE PATHS CALCULATED FROM CRITICAL MAGNETIC FIELD VALUES WITH ELECTRON DIFFRACTION RESULTS 67-08 M16-75834
MEASUREMENT OF THOMSON HEAT IN METALLIC SYSTEMS 67-10 M15-79998
ELECTRIC CONDUCTIVITY AND DIELECTRIC ABSORPTION PHENOMENA IN LEAD ZIRCONATE CERAMICS 67-11 M15-80618
CRYSTALLOGRAPHIC CHANGES ENCOUNTERED IN THE PROCESSING OF POSITIVE LEAD-ACID BATTERY ACTIVE MATERIAL 67-11 M15-80826
TWO-BAND CONDUCTION IN PT, W, AND PB 67-11 M16-80325
LEAD /METAL/, EXTRACTION
LABORATORY TESTS OF WOOD RESIN OIL USED FOR FLOTATION OF OXIDE AND MIXED LEAD-ZINC ORES AND MINERALS OF ENVELOPING ROCKS 67-02 M02-59639
GRANULATION AND FLUIDIZER BED ROASTING OF WAELZ OXIDES UNDER SEMI-INDUSTRIAL CONDITIONS 67-02 M03-59543
PRODUCTION OF METALS OR ALLOYS FROM ASH, SCALE AND FROM THE LIGHT FRACTION OF FUSIBLE ALLOYS 67-02 M03-59573
EXTRACTION OF LEAD BY SOME AMINES AND CHLOROUS SALTS WITH QUATERNARY AMMONIA BASE 67-02 M03-62046
EFFECT OF OXYGEN ENRICHMENT OF BLASTS ON THE RATE OF ZINC AND LEAD SUBLIMATION FROM SLAGS --INDUSTRIAL TESTS-- 67-02 M03-62216
LIQUATION DURING SINTERING IN THE PRESENCE OF A MOLTEN PHASE WITH INCOMPLETE WETTING OF THE SOLID COMPONENT BY THE MOLTEN PHASE 67-02 M14-59559
FLASH SMELTING OF LEAD CONCENTRATES 67-03 M03-65006
RECOVERY OF ZINC AND LEAD FROM COMPLEX LOW-GRADE SULPHIDE CONCENTRATES BY ACID PRESSURE LEACHING 67-04 M02-66676
NONFERROUS METALS AND THE CHEMICAL ENGINEER. PT. 4. LEAD, ZINC, AND MOLYBDENUM 67-04 M03-66332
SOLVENT EXTRACTION STUDY MAY PAVE WAY FOR PROCESSING BULK SULPHIDE CONCENTRATES 67-06 M03-71497
ELECTRODEPOSITION OF LEAD FROM CHLORIDE SOLUTIONS 67-08 M03-74486
SOME PECULIARITIES OF THE ELECTRODEPOSITION OF LEAD FROM CHLORIDE SOLUTIONS IN THE COMPACT AND POWDERED FORMS 67-08 M03-74487
CALCULATING OPTIMUM CONDITIONS FOR ZONE MELTING 67-08 M03-75876
THERMODYNAMICS OF PBO AND PBO-SIO2 MELTS 67-08 M15-76061
AUTOMATION IN ZINC SMELTING 67-09 M03-77001
ELECTROTHERMAL EXTRACTION OF COPPER, LEAD AND IRON FROM SLAG DUMP FROM THE ALAVERDI COPPER CHEMICAL COMBINE 67-09 M03-77039
DISTRIBUTION OF GOLD AND SILVER IN LEAD SMELTING PRODUCTS 67-09 M03-77111
ELECTROCHEMICAL BEHAVIOR OF IMPURITIES DURING ELECTROLYTIC PRODUCTION OF HIGH-PURITY LEAD 67-10 M03-79036
ALKALI-ELECTROLYTIC METHOD FOR EXTRACTION OF ARSENIC FROM CONVERTER DUST 67-10 M03-79037
METHOD FOR PROCESSING COPPER DROSS 67-11 M03-81224
IMPROVED TECHNIQUES AND INCREASED LEAD RECOVERY IN PROCESSING LEAD-COPPER MATTE AND SPEISS IN THE G. DIMITROV WORKS 67-11 M03-81619
EXTRACTION OF SILVER FROM LEAD OBTAINED BY A PYROMETALLURGICAL METHOD 67-11 M03-81622
RECOVERY OF NONFERROUS METALS FROM METALLURGICAL FUMES 67-12 M03-83581
LEAD /METAL/, EXTRUSION
EFFECT OF TOOL GEOMETRY ON EXTRUSION PRESSURE IN SIDE-EXTRUSION 67-02 M07-61000
EXPERIMENTS IN METAL WORKING USING HIGH AND LOW EXPLOSIVE CHARGES 67-05 M07-69160
EXPERIMENTAL DETERMINATION OF CONTACT STRESSES IN PRESSING 67-07 M07-73949
HOT BACKWARD EXTRUSION OF SLEEVES WITH A THIN BOTTOM BY CYLINDRICAL AND TAPERED PUNCHES 67-07 M08-73950
HYDROMECHANICAL EXTRUSION OF THIN-WALLED TUBES 67-08 M07-75479
PRESSING METALS WITH INDEPENDENTLY MOVING DIES 67-08 M07-76244
COMPUTER APPLICATION TO THE VISIOPLASTICITY METHOD 67-09 M07-76463
SOME EXPERIMENTS ON FACTORS AFFECTING THE EXTRUSION OF LEAD AND LEAD ALLOYS IN A CONTINUOUS SCREW EXTRUSION MACHINE 67-09 M07-76604
SOME ASPECTS OF SHEATHING CABLES WITH THE HANSSON-ROBERTSON NO. 3 CONTINUOUS EXTRUSION MACHINE 67-09 M07-76610
STRAIN DISTRIBUTION IN RODS MADE BY INVERSE HYDROSTATIC EXTRUSION 67-11 M07-81657
LEAD /METAL/, FERMI SURFACE
FERMI SURFACE OF PB UNDER HYDROSTATIC PRESSURE 67-05 M16-69809
LEAD /METAL/, FLUID MECHANICS
INVESTIGATION OF THE HYDROMECHANICAL EFFECT OF THE IMPACT OF DROPS 67-09 M18-77351
LEAD /METAL/, FORGING
WALL PRESSURE WHEN FORGING AND FILLING OUT CORNERS IN CLOSED DIES 67-01 M07-57241
THE CALCULATION OF FORCES REQUIRED FOR DIE FORGING ON CRANK PRESSES AND OF RAM WEIGHTS IN FORGING 67-02 M07-60021
CHARACTERISTICS OF THE PROCESS OF UPSETTING UNDER PULSATING LOADS 67-04 M07-67043
FUNDAMENTAL STUDY OF METAL FLOW IN STEEL FORGING 67-06 M07-70244
FUNDAMENTAL STUDY OF METAL FLOW IN STEEL FORGING. PT. 2 67-07 M07-73837
PREDICTION OF EXTRUSION PRESSURES IN THE COLD FORGING OF STEEL 67-12 M07-82767
LEAD /METAL/, FORMING
IMPROVED EFFICIENCY IN WIREDRAWING WITH ULTRASOUND 67-04 M08-66923
FUNDAMENTAL STUDY OF METAL FLOW IN STEEL FORGING. PT. 1 67-06 M07-71316
LEAD /METAL/, IMPURITIES
EFFECT OF METAL IMPURITIES ON MECHANICAL PROPERTIES OF NICKEL IN TENSION 67-02 M17-62235
LEAD /METAL/, INTERMETALLICS
COMPOUND OF RARE EARTH ELEMENTS WITH PB HAVING A GENERAL CHEMICAL FORMULA M5X3 67-05 M13-69128
D88 PHASES OF THE RARE EARTH ELEMENTS WITH TIN AND LEAD 67-07 M13-73437
SUPERCONDUCTING HOMOGENEOUS INTI AND PBBI FILMS EVAPORATED FROM A SINGLE SOURCE 67-08 M12-76152
INFLUENCE OF THE SAMPLE GEOMETRY ON FREQUENCY AND Q-VALUE OF THE HELICON RESONANCE IN PBTE 67-10 M16-79356
LEAD /METAL/, IRRADIATION
REDISTRIBUTION OF IMPURITIES IN METALS DURING IRRADIATION AND RECOVERY 67-04 M16-67388
LEAD /METAL/, MACHINING
THE APPLICABILITY OF THE BINOMIAL LAW TO THE PROCESS OF FRICTION IN THE CUTTING OF METALS

67-10 M08-79108

LEAD /METAL/, MAGNETIC PROPERTIES
A HIGH-RESOLUTION METHOD OF INVESTIGATING THE MAGNETIC STRUCTURE OF SUPERCONDUCTORS 67-03 M15-65225
FLUX TRAPPING IN ROTATING SUPERCONDUCTORS 67-04 M16-66178
NUCLEAR MAGNETIC RESONANCE IN SUPERCONDUCTING LEAD 67-06 M16-70638

LEAD /METAL/, MAGNETIC RESONANCE
PRESSURE-DEPENDENCE OF THE KNIGHT SHIFT IN POLYCRYSTALLINE BETA TIN, LEAD, AND PLATINUM 67-02 M16-60535

LEAD /METAL/, MECHANICAL PROPERTIES
PROBLEM OF THE INTERRELATION BETWEEN THE SPEED, TEMPERATURE AND FORCE INDICES OF HARDNESS NUMBERS 67-01 M17-58136
AN EVALUATION OF VARIOUS EQUATIONS FOR EXPRESSING FIRST-STAGE CREEP BEHAVIOR 67-02 M17-59438
THE FREEZE-CRACKING RESISTANCE OF DISTRIBUTING PIPES 67-02 M17-59721
QUENCH-HARDENING GRADIENTS NEAR VACANCY SINKS IN CRYSTALS OF ZONE REFINED LEAD 67-02 M17-60634
FATIGUE CRACK FORMATION IN BICRYSTALS OF LEAD 67-02 M17-60811
INDENTATION HARDNESS AND THE CREEP OF SOLIDS 67-02 M17-61291
DEFORMATION RESISTANCE OF LEAD IN RELATION TO THE STRAIN-RATE FACTOR 67-02 M17-61558
ACTIVATION ENERGY OF THE TEMPERATURE BACKGROUND OF INTERNAL FRICTION 67-04 M17-66497
RESISTANCE TO CAVITATION AND MECHANICAL PROPERTIES OF METALS 67-04 M17-66870
DEFORMATION RESISTANCE OF CERTAIN DUCTILE METALS IN DEFORMATION AT A HIGH RATE 67-04 M17-67155
INTERNAL FRICTION PHENOMENA CONNECTED WITH THE GRAIN BOUNDARY IMPURITY CONCENTRATION IN A ZN-PB ALLOY 67-06 M17-70570
CRITICAL RESOLVED SHEAR STRESS OF LEAD 67-06 M17-71537
TEMPERATURE DEPENDENCE OF CRITICAL SHEAR STRESS IN ULTRAPURE LEAD SINGLE CRYSTALS TO 1.3 K 67-06 M17-72354
EXPERIMENTAL STUDIES ON FATIGUE MECHANISM IN PURE METALS AT ELEVATED TEMPERATURES 67-08 M17-74428
THE VALIDITY OF THE ASSUMPTION OF PLANE STRAIN CONDITIONS IN PLASTIC DEFORMATION PROCESSES AND YIELD POINT PHENOMENA IN METALS AND ALLOYS 67-08 M17-75576
DISPERSION STRENGTHENED LEAD--PROPERTIES AND POTENTIALITIES IN CHEMICAL PLANT AND SOME EARLY FIELD TRIALS 67-09 M17-76603
THE FATIGUE OF LEAD CABLE SHEATH MATERIALS 67-09 M17-76605
TESTS ON THIRTEEN DIFFERENT LEAD CABLE SHEATHING MATERIALS 67-09 M17-76606
SERVICE PERFORMANCE OF LEAD SHEATHED CABLES SUBJECT TO THERMAL MOVEMENT 67-09 M17-76607
APPLICATION OF POTENTIAL FLOW THEORY TO PLANE-STRAIN EXTRUSION 67-11 M17-81024
TECHNIQUE FOR THE DETERMINATION OF DYNAMIC-TENSILE-STRENGTH CHARACTERISTICS 67-11 M17-81091
THE STRESS SENSITIVITY OF CREEP OF LEAD AT LOW STRESSES 67-12 M17-82870

LEAD /METAL/, MELTING
THERMAL BALANCE OF A SHORT-DRUM FURNACE USED FOR MELTING LEAD 67-02 M03-58872
STUDY OF THE EFFECT OF FREQUENCY ON MAGNETOHYDRODYNAMIC EFFECTS IN AN INDUCTION CRUCIBLE FURNACE 67-02 M06-58875

LEAD /METAL/, METAL FOILS
TEMPERATURE DEPENDENCE OF DYNAMICAL ELECTRON DIFFRACTION INTENSITIES OF POLYCRYSTALLINE FOILS 67-02 M13-61825

LEAD /METAL/, METAL WORKING
THE DEFORMATION OF SHEET METAL THROUGH UNDERWATER SPARK DISCHARGES 67-04 M08-67060
INVESTIGATIONS OF METAL DEFORMATION DURING VIBRATION 67-06 M08-71363
NEW DEVELOPMENTS IN HYDRAULIC PRESSES FOR LEAD CABLE SHEATHING 67-09 M07-76609

LEAD /METAL/, MICROSTRUCTURE
GRAIN BOUNDARY MIGRATION DURING RECRYSTALLIZATION. PT. 1. ZONE-REFINED LEAD, ZINC, TIN AND BISMUTH. PT. 2. ZONE-REFINED ALUMINUM 67-06 M14-69933

LEAD /METAL/, OPTICAL PROPERTIES
EFFECT OF A PERIODIC LATTICE POTENTIAL ON THE OPTICAL PROPERTIES AND OTHER INTEGRAL CHARACTERISTICS OF CUBIC POLYVALENT METALS 67-06 M16-71828

LEAD /METAL/, PHASE TRANSFORMATIONS
THE INFLUENCE OF LOW-FREQUENCY VIBRATION ON THE NUCLEATION OF SOLIDIFYING METALS 67-02 M14-61840
THE ELECTRON EMISSION DURING THE MELTING AND SOLIDIFICATION OF METALS 67-05 M15-69190

LEAD /METAL/, PHYSICAL PROPERTIES
ELECTRICAL AND THERMOMETRIC PROPERTIES OF SUPERIMPOSED LEAD-COPPER FILMS AT LOW TEMPERATURES 67-04 M15-66120
COMPRESSIBILITY AND BINDING ENERGY OF THE SIMPLE METALS 67-07 M15-73942
THE VISCOSITIES OF LIQUID URANIUM, GOLD AND LEAD 67-09 M15-77467

LEAD /METAL/, POWDER METALLURGY
THE STRUCTURE AND PROPERTIES OF DISPERSION HARDENED LEAD 67-09 M09-76601
DISPERSION STRENGTHENED LEAD FOR CABLE SHEATHING 67-09 M09-76602
ELECTROLYTIC PREPARATION OF LEAD POWDER 67-09 M09-76838
A STUDY OF THE PREPARATION OF LEAD POWDER BY DIRECT REDUCTION OF LEAD MONOXIDE AND LEAD DIOXIDE 67-10 M09-78756
A STUDY OF THE PREPARATION OF LEAD POWDER BY DIRECT REDUCTION OF LEAD MONOXIDE AND LEAD DIOXIDE 67-12 M09-83125

LEAD /METAL/, POWER SUPPLIES
A COMPARATIVE STUDY OF LEAD-ACID BATTERIES 67-02 M20-58933

LEAD /METAL/, QUATERNARY SYSTEMS
AN INVESTIGATION OF THE LIQUID MISCIBILITY GAPS IN THE LEAD-COPPER-IRON-ARSENIC SYSTEM 67-11 M15-81338

LEAD /METAL/, REACTIONS /CHEMICAL/
STUDY OF THE REACTION OF LEAD SULFIDE AND SULFURIC ACID 67-02 M02-58859
MEASUREMENTS OF OXIDATION-REDUCTION RATE OF IRON AND OF OXYGEN PRESSURE IN OXIDE MELTS 67-02 M04-59152
REACTION RATE OF SULFUR WITH LEAD 67-05 M14-69476

LEAD /METAL/, RECOVERING
A STUDY OF TIN AND LEAD DISTRIBUTION AMONG SMELTING PRODUCTS 67-06 M03-71346

LEAD /METAL/, REFINING
METHOD FOR REFINING LEAD FROM THALLIUM 67-02 M03-59042
FIRE REFINING OF CRUDE LEAD AT THE UKSTSK LEAD-ZINC COMBINE 67-02 M03-60564
SEMI-INDUSTRIAL EXPERIMENTS ON CONTINUOUS COPPER EXTRACTION FROM CRUDE LEAD 67-06 M03-71872
DECOPPERING OF LEAD 67-07 M03-73881
THE PRODUCTION OF HIGH PURITY LEAD 67-09 M03-76619
A NEW METHOD FOR REFINING METALS 67-09 M03-76691
ELECTRIC SMELTING OF COMPLEX LEAD-ZINC SINTER 67-10 M03-78636
FLOW CHARACTERISTICS OF MOLTEN LEAD 67-12 M15-83081
THE DURABILITY OF THE MELTING VESSEL IN THE ZN-DESILVERIZATION OF PB 67-12 M17-82830

LEAD /METAL/, ROLLING
THE CRITICAL SECTION ANGLE IN ROLLING WIDE STRIPS 67-04 M07-66616
STUDY ON HELICAL ROLLING. PT. 1. PRELIMINARY EXPERIMENT WITH LEAD BILLETS 67-05 M07-69370
CHANGES IN SPECIFIC PRESSURE DURING DEFORMATION OF THICK SHEETS 67-05 M07-69602
POWER PARAMETERS IN ROLLING TUBES ON A SHORT MANDREL 67-11 M07-81655

LEAD /METAL/, SCATTERING
INELASTIC SCATTERING OF ELECTRONS IN BERYLLIUM AND LEAD AT LARGE ANGLES OF INCIDENCE OF THE PRIMARY BEAM 67-06 M16-71913

LEAD /METAL/, SEMICONDUCTORS
TEMPERATURE AND MAGNETIC FIELD DEPENDENCES OF THE JOSEPHSON CURRENT IN THE JUNCTION WITH A VERY THIN FILM OF TIN 67-03 M16-65643

LEAD /METAL/, SEPARATION
EXTRACTION OF LEAD AND ZINC FROM AQUEOUS COBALT SOLUTIONS BY MEANS OF IONITES 67-08 M03-75205

LEAD /METAL/, SHEATH WORKING
THE LEAD SHEATH IN GERMAN POWER CABLE PRACTICE

67-09 M20-76608
LEAD /METAL/, SMELTING
EFFECT OF COMPOSITIONAL VARIATIONS ON THE QUALITY OF ZINC-LEAD SINTER 67-08 M03-76059
LEAD /METAL/, SOLUBILITY
THE SOLUBILITY OF LEAD IN LIQUID ALUMINUM ALLOYS AT DIFFERENT TEMPERATURES 67-11 M14-81636
RETROGRADE SOLUBILITY OF LEAD IN N-TYPE PBS 67-12 M15-82853
LEAD /METAL/, SPHERES
DEFORMATION THEORY OF HOT PRESSING 67-11 M17-81090
LEAD /METAL/, SUPERCONDUCTIVITY
MAKING EFFECTIVE USE OF SUPERCONDUCTING MAGNETS 67-01 M16-57233
SIZE EFFECT IN THE INTERMEDIATE STATE THERMAL RESISTIVITY MAXIMA IN INDIUM AND LEAD 67-01 M16-57545
AMPLITUDE-DEPENDENT ULTRASONIC ATTENUATION IN NORMAL AND SUPERCONDUCTING LEAD 67-01 M16-57591
SUPERCONDUCTING CONTACTS IN HIGH MAGNETIC FIELDS 67-01 M16-57973
AMPLITUDE-DEPENDENT ULTRASONIC ATTENUATION IN SUPERCONDUCTORS 67-02 M16-60528
APPARENT SUPERCONDUCTING ENERGY GAP IN LEAD FROM ULTRASONIC MEASUREMENTS 67-02 M16-60529
CRITICAL-CURRENT BEHAVIOR IN NARROW THIN-FILM SUPERCONDUCTORS 67-02 M16-60534
SUPERCONDUCTIVITY OF TIN AND LEAD AT VERY HIGH PRESSURE 67-02 M16-60821
SUPERCONDUCTIVITY AND SOME OF ITS APPLICATIONS. 67-04 M16-66131
TUNNELING INVESTIGATION OF ENERGY-GAP ANISOTROPY IN SUPERCONDUCTORS 67-04 M16-66511
DETERMINATION OF THE ANISOTROPY OF THE ENERGY GAP IN SUPERCONDUCTING PB BY SUPERCONDUCTIVE TUNNELING 67-04 M16-68141
EFFECT OF DEGREE OF CRYSTAL LATTICE DISTORTION OF METAL ON ITS SUPERCONDUCTIVITY 67-08 M15-75259
PROXIMITY EFFECTS BETWEEN SUPERCONDUCTORS AND FERROMAGNETIC DOMAINS 67-09 M16-77970
AMPLITUDE-INDEPENDENT ULTRASONIC ATTENUATION IN SUPERCONDUCTING LEAD 67-10 M16-79150
FAR-INFRARED ABSORPTION IN SUPERCONDUCTING AND NORMAL LEAD 67-12 M16-82102
LEAD /METAL/, SUPERCONDUCTORS
IRREVERSIBLE MAGNETIZATION IN SUPERCONDUCTORS 67-09 M16-77014
LEAD /METAL/, TERNARY SYSTEMS
SURFACE TENSION OF TERNARY IDEAL METALLIC SOLUTIONS 67-03 M15-65951
STUDY OF A PBSE-PBI2 SECTION OF THE PB-SE-I TERNARY SYSTEM 67-06 M13-70744
THE AU-PB-SN TERNARY SYSTEM 67-06 M14-70795
CONSTITUTIONAL SUPERCOOLING IN TIN-BASE TERNARY ALLOYS 67-07 M13-72818
THE MICROSTRUCTURES OF TERNARY EUTECTIC ALLOYS IN THE SYSTEMS CD-SN---PB, IN, TL--, AL-CU---MG, ZN, AG--, AND ZN-SN-PB 67-09 M13-76678
SLAG-METAL EQUILIBRIA IN THE PB-PBO-SB2O3 SYSTEM 67-12 M13-82565
THERMODYNAMIC INTERACTIONS AND LIQUIDUS PHASE BOUNDARIES IN THE LEAD CORNER OF THE PB-ZN-AG AND PB-ZN-AU SYSTEMS 67-12 M15-82754
LEAD /METAL/, THERMAL PROPERTIES
THE ABSOLUTE THERMOELECTRIC POWER OF LIQUID METALS 67-01 M15-57972
A USEFUL RELATIONSHIP BETWEEN ATOMIC VIBRATION AMPLITUDES AND THERMAL EXPANSION FOR CUBIC SOLIDS 67-02 M15-59099
TRANSIENT DETERMINATIONS OF THERMAL DIFFUSIVITIES AND DISSIPATIONS OF METAL FOILS 67-02 M15-61073
INVESTIGATION OF THE HEAT CONDUCTIVITY OF CERTAIN METALS ON TRANSITION FROM THE SOLID TO THE LIQUID STATE 67-05 M15-69394
A METHOD OF MEASURING THERMAL DIFFUSIVITY BY HEATING OF STEP FUNCTION CHANGE 67-06 M15-71557
LEAD /METAL/, THERMODYNAMICS
THE INFLUENCE OF ADDITIVE ELEMENTS ON THE ACTIVITY COEFFICIENT OF SULFUR IN LIQUID LEAD AT 600 C 67-02 M14-59424
THERMODYNAMICS OF SHOCK COMPRESSION OF METALS 67-03 M15-65120
SPECIFIC HEAT OF LEAD IN THE RANGE FROM 2 TO 8 K 67-06 M15-71792
THERMODYNAMIC INTERACTION BETWEEN ZINC AND THE DILUTE SOLUTES ANTIMONY, BISMUTH, AND CADMIUM IN SOLUTION IN LIQUID LEAD 67-10 M15-79964
LEAD /METAL/, THIN FILMS
ELECTRODEPOSITION OF METALS IN ULTRASONIC FIELDS 67-04 M12-66279
AMORPHOUS NUCLEATION IN METALS 67-05 M14-68413
REDUCTION IN THE SURFACE TENSION OF SOLID METALS DUE TO ATOMS OF LIQUID SURFACE-ACTIVE METALS ADSORBED ON THEIR SURFACE 67-12 M15-82180
LEAD /METAL/, TRANSPORT PROPERTIES
THE MECHANISM OF IONIC MOBILITY IN MOLTEN METALS 67-02 M15-59932
SELF-TRANSPORT IN POLYCRYSTALLINE ZN AND PB 67-03 M14-65201
MECHANISM OF IONIC MOBILITY IN LIQUID METALS 67-07 M15-72587
INTERPRETATION OF THE HALL COEFFICIENT, ELECTRICAL RESISTIVITY AND SEEBECK COEFFICIENT OF P-TYPE LEAD TELLURIDE 67-08 M15-74388
LEAD /METAL/, WELDING
PULSED ARC WELDING OF LEAD 67-04 M11-67807
PULSED ARC WELDING OF LEAD 67-06 M11-70307
LEAD BASE ALLOYS, ATOMIC PROPERTIES
CLUSTERING IN LIQUID ALUMINUM-COPPER AND LEAD-TIN EUTECTIC ALLOYS 67-11 M16-81345
LEAD BASE ALLOYS, CASTING
INFLUENCE OF ALLOYING ELEMENTS ON CASTING FLUIDITY OF LEAD AND ZINC 67-02 M06-58931
PRESSURE CASTING WITH CORED INSERTS--SEVERAL EXAMPLES FROM PRACTICE 67-12 M06-81754
LEAD BASE ALLOYS, COATINGS
BRIGHT SOLDER PLATE 67-02 M12-59044
STRUCTURE AND PROPERTIES OF LEAD-TIN ALLOYS 67-05 M13-69254
PROPERTIES AND COMPARATIVE PERFORMANCE OF ELECTRODEPOSITED TERNE ALLOYS 67-07 M17-72768
LEAD BASE ALLOYS, CORROSION
THE CORROSION BEHAVIOR OF PB AND PB ALLOYS IN SULFURIC ACID 3 67-01 M18-58628
STRESS CORROSION IN THE GRIDS OF THE LEAD-ACID STORAGE BATTERY 67-03 M18-65419
THE CORROSION BEHAVIOR OF PB AND PB ALLOYS IN H2SO4. PT. 4 67-05 M18-68585
CORROSION RESISTANCE OF LEAD IN SULPHURIC ACID UNDER STATIC AND ALTERNATING STRESS 67-09 M18-76613
METHOD OF PREPARING LEAD-BASE ALLOYS WITH ALLOYING SULFUR AND COBALT ADDITIVES FOR THE MANUFACTURE OF INSOLUBLE ANODES 67-10 M18-79810
THE CORROSION BEHAVIOR OF PB AND PB ALLOYS IN BOILING SULFURIC ACID 67-11 M18-81032
STABILITY OF LEAD BASE ALLOYS IN SULFURIC ACID SOLUTIONS IN CONDITIONS OF ANODIC POLARIZATION 67-11 M18-81296
LEAD BASE ALLOYS, CRYSTAL LATTICES
ELECTRON DIFFRACTION OF LOW TEMPERATURE. PT. 3. RADIAL DISTRIBUTION ANALYSIS OF METASTABLE STRUCTURE OF METAL FILMS PREPARED BY LOW TEMPERATURE CONDENSATION 67-02 M13-60515
EQUILIBRIUM VACANCY CONCENTRATION IN PURE PB AND DILUTE PB-TI AND PB-IN ALLOYS 67-07 M13-73145
THE STACKING FAULT DENSITY IN SOLID SOLUTIONS BASED ON COPPER, SILVER, NICKEL, ALUMINIUM AND LEAD 67-07 M13-73906
LEAD BASE ALLOYS, DIFFUSION
ON GRAIN BOUNDARY SELF-DIFFUSION OF LEAD. PT. 2. EFFECT OF SOLUTES 67-01 M14-58465
ON THE TRACER DIFFUSION COEFFICIENT OF LEAD IN TWO-PHASE LEAD-SILVER CRYSTALS 67-06 M14-71724
LEAD BASE ALLOYS, ELECTRICAL PROPERTIES
EXPERIMENTAL EVIDENCE FOR A SURFACE MECHANISM FOR HYSTERESIS IN LOW-K TYPE-2 SUPERCONDUCTORS 67-02 M15-61569
ELECTRICAL CONDUCTIVITY OF LIQUID ALLOYS OF THE LEAD-SODIUM AND LEAD-POTASSIUM SYSTEMS 67-02 M15-61720
SUPERCONDUCTING TRANSITION TEMPERATURES OF LEAD ALLOYS 67-02 M16-59065
VARIATION IN THE THERMOELECTROMOTIVE FORCE ON THE MELTING OF ALLOYS IN THE SYSTEM BISMUTH-LEAD 67-05 M15-68242
CURRENT-CARRYING PROPERTIES OF SUPERCONDUCTING LEAD-BISMUTH ALLOYS 67-06 M15-72261
RESISTIVITY OF LIQUID LEAD-TIN ALLOYS 67-07 M15-74243
THE SEEBECK EMF FOR CERTAIN BI-, CD-, PB-, SN- AND

LEAD BASE ALLOYS

TL-BASE ALLOYS AGAINST THE PURE SOLVENT
67-10 M15-79951

LEAD BASE ALLOYS, EXTRUSION
EFFECT OF TOOL GEOMETRY ON EXTRUSION PRESSURE IN SIDE-EXTRUSION 67-02 M07-61000
SOME EXPERIMENTS ON FACTORS AFFECTING THE EXTRUSION OF LEAD AND LEAD ALLOYS IN A CONTINUOUS SCREW EXTRUSION MACHINE 67-09 M07-76604
PROGRESS IN THE CONTINUOUS EXTRUSION FOR LEAD-ALLOYED CABLE SHEATH 67-09 M07-76611
PRODUCTION EXPERIMENTS AND MODIFICATIONS TO HANSSON-ROBERTSON EXTRUDER 67-09 M07-76612

LEAD BASE ALLOYS, HEAT TREATMENT
A STUDY ON AGING PROCESS OF A LEAD-0.4 WT PER CENT MAGNESIUM ALLOY BY MEANS OF SPECIFIC HEAT MEASUREMENTS 67-01 M14-58326
THE EFFECT OF ARSENIC ON THE AGE-HARDENING OF LEAD-ANTIMONY ALLOYS 67-02 M14-60230

LEAD BASE ALLOYS, MECHANICAL PROPERTIES
THE STUDY OF THERMAL FATIGUE OF BEARING METALS LINING ON STEEL PLATES 67-01 M17-57588
THE PLASTIC BEHAVIOR OF PB-SB ALLOYS 67-01 M17-58623
ELASTIC MODULI OF THE LEAD-THALLIUM ALLOYS 67-02 M17-61078
SINGLE CRYSTALLINE ELASTIC CONSTANTS OF LEAD-THALLIUM ALLOYS 67-06 M17-70423
EFFECT OF STATE OF STRESS ON THE CREEP BEHAVIOR OF LEAD AND LEAD ALLOY TUBES 67-07 M17-73709
THE AGING BEHAVIOR OF PB-SB ALLOYS AT AMBIENT TEMPERATURE 67-11 M10-81030
RATE-SENSITIVE DEFORMATION IN TIN-LEAD ALLOYS 67-12 M17-82970

LEAD BASE ALLOYS, MELTING
CARBOTHERMAL PRODUCTION OF LEAD-CALCIUM ALLOYS 67-02 M03-59574

LEAD BASE ALLOYS, MICROSTRUCTURE
GRAIN-BOUNDARY SLIDING IN METALS 67-02 M13-61780
THE DEPENDENCE OF THE SIZE OF THE CELLULAR INTERFACE STRUCTURE IN DILUTE BINARY ALLOYS ON SOLIDIFICATION CONDITIONS 67-05 M14-68723
THE MORPHOLOGY OF SOME BINARY EUTECTIC ALLOYS 67-08 M14-74519

LEAD BASE ALLOYS, PHASE TRANSFORMATIONS
EVAPORATION LAWS OF ALLOYS DURING HIGH-FREQUENCY HEATING 67-09 M14-76980

LEAD BASE ALLOYS, PHYSICAL PROPERTIES
VAPOR PRESSURE OF LEAD AND ACTIVITY MEASUREMENTS ON LIQUID LEAD-TIN ALLOYS BY THE TORSION EFFUSION METHOD 67-12 M15-82730

LEAD BASE ALLOYS, PRECIPITATION
MORPHOLOGY OF CELLULAR PRECIPITATION OF TIN FROM LEAD-TIN BICRYSTALS 67-06 M14-70425

LEAD BASE ALLOYS, REACTIONS /CHEMICAL/
NATURAL AGING KINETICS OF LEAD-CADMIUM ALLOYS 67-06 M14-71124

LEAD BASE ALLOYS, REFINING
THE DECOPPERIZING OF LEAD. PT. 9 67-09 M03-77807

LEAD BASE ALLOYS, ROLLING
EFFECT OF ROLLING SPEED OF A HARDENING ALLOY ON TANGENTIAL AND NORMAL STRESS PEAKS 67-09 M07-77129

LEAD BASE ALLOYS, SOLDERING
SOLDERING PROBLEMS IN THE PRODUCTION OF ELECTRONIC TUBES 67-05 M11-68606

LEAD BASE ALLOYS, SUPERCONDUCTIVITY
ANISOTROPY OF THE ENERGY GAP IN SUPERCONDUCTING LEAD-BISMUTH ALLOYS 67-02 M16-61690
THE SUPERCONDUCTING PROPERTIES OF PB-TL ALLOYS 67-03 M16-65392
SURFACE IMPEDANCE IN THE SURFACE SUPERCONDUCTING STATE 67-06 M16-71791
NATURE OF THE A-C TRANSITION IN THE SUPERCONDUCTING SURFACE SHEATH IN PB-2 PER CENT IN 67-06 M16-71793
OBSERVATIONS OF MAGNETIC STRUCTURES IN TYPE II SUPERCONDUCTORS 67-07 M16-72941
ELECTRON AND PHONON EFFECTS IN SUPERCONDUCTING FCC LEAD-BASED ALLOYS 67-07 M16-73312

LEAD BASE ALLOYS, THERMAL PROPERTIES
THERMODYNAMIC PROPERTIES AND EQUILIBRIUM PHASE DIAGRAMS IN THE AL-PB AND AL-CD SYSTEMS 67-12 M15-82595

LEAD BASE ALLOYS, THERMODYNAMICS
THE INFLUENCE OF ADDITIVE ELEMENTS ON THE ACTIVITY COEFFICIENT OF SULFUR IN LIQUID LEAD AT 600 C 67-02 M14-59424

LEAD BASE ALLOYS, THIN FILMS
KINETICS OF DEPOSITION OF THIN LEAD SELENIDE FILMS 67-01 M16-57657

LEAD BASE ALLOYS, VAPORIZING
STUDY OF ALLOY EVAPORATION 67-02 M15-59931
EVAPORATION MECHANISMS OF ALLOYS 67-07 M15-72586

LEAD COMPOUNDS
SEE ALSO RED LEAD

LEAD COMPOUNDS, BAND THEORY
STUDY OF THE NONPARABOLICITY OF THE PBTE VALENCE BAND BY MEASUREMENTS OF THE THERMAL EMF IN A STRONG MAGNETIC FIELD 67-03 M16-65460
STRUCTURE OF THE VALENCE BAND OF HEAVILY DOPED LEAD TELLURIDE 67-06 M16-70503

LEAD COMPOUNDS, BINARY SYSTEMS
ELECTRON-DIFFRACTION STUDY OF THE PB2BI2SE5 STRUCTURE 67-10 M13-79355

LEAD COMPOUNDS, COATINGS
A PHOSPHATE COATING THAT CAN BE WELDED 67-10 M12-78635
LEAD PHOSPHATE PROTECTS STEEL AND PRESERVES ITS WELDABILITY 67-12 M12-82646

LEAD COMPOUNDS, CRYSTAL GROWTH
ON THE EPITAXIAL PRECIPITATION OF ZINC SULFIDE AND LEAD SULFIDE ON ZINC SULFIDE BY A CHEMICAL TRANSPORT REACTION AND BY SUBLIMATION 67-02 M14-60114
REPRODUCIBLE PREPARATION OF SN1-XPBXTE EPITAXIAL FILMS WITH MODERATE CARRIER CONCENTRATIONS 67-02 M14-61823
THE PREPARATION OF PBTE CRYSTALS 67-06 M14-71141
POLYMORPHISM IN SOME IV-VI COMPOUNDS INDUCED BY HIGH PRESSURE AND THIN-FILM EPITAXIAL GROWTH 67-08 M14-75552
COMPOSITIONAL INHOMOGENEITY OF --BA, PB-- TIO3 CRYSTALS 67-08 M14-75991

LEAD COMPOUNDS, CRYSTAL LATTICES
ELECTRON-DIFFRACTION STUDY OF THE PB2BI2SE5 STRUCTURE 67-06 M13-71186
STUDIES IN SOLID STATE CHEMISTRY. PT. 1. ON A SOLID-STATE MECHANISM FOR THE POLYMORPHIC TRANSFORMATION OF ORTHORHOMBIC TO TETRAGONAL PBO 67-07 M14-73637

LEAD COMPOUNDS, DEPOSITION
THE MECHANISM OF CHEMICAL DEPOSITION OF THIN LEAD SELENIDE FILMS 67-01 M14-57656

LEAD COMPOUNDS, DIFFUSION
DIFFUSION AND SOLUBILITY OF ZINC, CADMIUM, INDIUM AND IRON IN LEAD SELENIDE 67-06 M14-70939

LEAD COMPOUNDS, ELECTRICAL PROPERTIES
CONDUCTANCE INCREASE IN N-PBTE FILMS VIA ION BOMBARDMENT 67-04 M16-66176
A METHOD FOR MEASURING THE HALL EFFECT IN MATERIALS WITH HIGH SPECIFIC RESISTANCE 67-06 M16-72142
DIELECTRIC CONSTANTS OF PBWO4 AND CAWO4 67-09 M15-77459
THE PIEZO EFFECT AND ITS TECHNICAL APPLICATIONS 67-09 M15-77706

LEAD COMPOUNDS, FLAMMABILITY
STUDY OF THE PYROPHORIC PROPERTIES OF SUBLIMATES OF LEAD PRODUCTION 67-02 M15-61544

LEAD COMPOUNDS, MAGNETIC PROPERTIES
OSCILLATORY THERMOMAGNETIC EFFECTS IN LEAD TELLURIDE 67-07 M15-72950
MAGNETIC RESONANCE OF MN IN PBS, PBSE, AND PBTE 67-08 M16-75928
NEGATIVE MAGNETORESISTANCE IN N-TYPE LEAD SULPHIDE 67-11 M15-81679

LEAD COMPOUNDS, MECHANICAL PROPERTIES
INFLUENCE OF CHARGED DEFECTS ON MECHANICAL PROPERTIES OF LEAD SULFIDE 67-03 M17-65880

LEAD COMPOUNDS, MICROSTRUCTURE
A CHEMICAL POLISH THAT REVEALS COMPOSITIONAL VARIATIONS IN PBSE--1-X--TEX 67-09 M13-76630

LEAD COMPOUNDS, PHASES /STATE OF MATTER/
INVESTIGATION OF THE PBTE-SB2TE3 SYSTEM 67-02 M13-58870

LEAD COMPOUNDS, PHYSICAL PROPERTIES
CYCLOTRON ABSORPTION IN N-TYPE LEAD TELLURIDE 67-02 M16-59473
THERMAL AND OPTICAL ENERGY GAPS IN PBTE 67-03 M16-65884

LEAD COMPOUNDS, POWDER METALLURGY
THE EFFECTS OF SOME VARIATIONS IN FABRICATION PROCEDURE ON THE PROPERTIES OF LEAD ZIRCONATE-TITANATE CERAMICS MADE FROM SPRAY-DRIED, CO-

PRECIPITATED POWDERS 67-09 M09-76747

LEAD COMPOUNDS, REACTIONS /CHEMICAL/
PRODUCTS OF DISTILLED WATER OXIDATION OF GALENITE 67-02 M14-60088
BEHAVIOR OF SELENIUM IN THE PROCESSES OF OXIDIZING LEAD SELENIDE AND PBS-PBSE SOLID SOLUTIONS 67-02 M14-61716
KINETICS OF INTERACTION OF GALENITE WITH CERUSSITE 67-03 M03-65578
ON THE REACTION OF SELENIUM DIOXIDE WITH LEAD SULFIDE 67-10 M03-79828

LEAD COMPOUNDS, REDUCTION /CHEMICAL/
MATHEMATICAL MODELING OF LEAD OXIDE REDUCTION BY CARBON MONOXIDE 67-02 M03-58856
A STUDY OF THE PREPARATION OF LEAD POWDER BY DIRECT REDUCTION OF LEAD MONOXIDE AND LEAD DIOXIDE 67-12 M09-83125

LEAD COMPOUNDS, REFINING
THE EFFECT OF IRON OXIDE ON THE REDUCTION OF GALENITE 67-05 M03-68958
THE ELECTRICAL RESISTIVITY OF PB AND ZN COMPOUNDS. A CONTRIBUTION TO THE PROBLEM OF ELECTRIC GAS PURIFICATION 67-08 M03-74445
ZONE MELTING OF LEAD TELLURIDE 67-09 M14-76849

LEAD COMPOUNDS, SEMICONDUCTORS
X-RAY DIFFRACTION AND OPTICAL OBSERVATIONS ON CRYSTALLINE SOLIDS UP TO 300 KBAR 67-05 M13-68652
HARTREE SELF-CONSISTENT FIELD OF SEMICONDUCTOR PBSE 67-11 M16-80155
PIEZORESISTANCE EFFECT IN P-TYPE PBTE 67-11 M16-81486
RETROGRADE SOLUBILITY OF LEAD IN N-TYPE PBS 67-12 M15-82853

LEAD COMPOUNDS, SINGLE CRYSTALS
THE ORIGIN AND FORMATION OF DOMAIN STRUCTURE IN MAGNETOUNIAXIAL FERROMAGNETICS. PT. 2 67-08 M15-75256
EPITAXIAL FILMS OF PBTE, PBSE AND PBS GROWN ON MICA SUBSTRATES 67-10 M15-79337

LEAD COMPOUNDS, SUPERCONDUCTIVITY
SUPERCONDUCTING CONTACTS IN HIGH MAGNETIC FIELDS 67-01 M16-57973

LEAD COMPOUNDS, SYNTHESIS
SYNTHESIS AND ALLOYING OF LEAD TELLURIDE 67-04 M16-66029
THE SYNTHESIS OF LEAD TELLURIDE WITH THE AID OF CHEMICAL REACTIONS 67-04 M16-66031

LEAD COMPOUNDS, TERNARY SYSTEMS
PHASE EQUILIBRIUM IN THE SYSTEM PBO-TIO2-ZRO2 67-07 M14-72825
INVERSION OF CONDUCTION AND VALENCE BANDS IN PB1-XSNXSE ALLOYS 67-09 M16-77170
SLAG-METAL EQUILIBRIA IN THE PB-PBO-SB2O3 SYSTEM 67-12 M13-82565

LEAD COMPOUNDS, THERMAL PROPERTIES
THE THERMAL CONDUCTIVITY OF YELLOW PBO BETWEEN 0 AND 500 C 67-03 M15-65373

LEAD COMPOUNDS, THERMODYNAMICS
HEAT OF FORMATION OF PB-TEO3 67-01 M15-57302

LEAD COMPOUNDS, TRANSPORT PROPERTIES
TEMPERATURE DEPENDENCE OF THE HALL COEFFICIENT IN P-PBTE 67-05 M16-69397
TEMPERATURE DEPENDENCE OF THE HALL COEFFICIENT IN N-PBTE 67-05 M16-69398
HIGH-MOBILITY PBS AND CDS FILMS DEPOSITED UNDER ULTRAHIGH VACUUM EQUILIBRIUM CONDITIONS 67-06 M14-71140
INVESTIGATION OF THE NONPARABOLICITY OF THE CONDUCTION BAND OF PBTE BY THE METHOD OF MEASURING THE THERMOELECTRIC POWER IN A STRONG MAGNETIC FIELD 67-06 M15-70511
HALL EFFECT IN SEMICONDUCTORS WITH TWO TYPES OF CARRIER 67-06 M16-70868
SURFACE TRANSPORT PHENOMENA IN PBS% EPITAXIAL FILMS 67-07 M16-73944
INFLUENCE OF HYDROSTATIC PRESSURE ON THE ELECTRIC PROPERTIES OF SINGLE CRYSTALS OF THE SOLID SOLUTION 0.85PBTE PLUS 0.15PBS 67-09 M15-76774
ANOMALOUSLY HIGH-MOBILITY PBTE 67-09 M16-77016
CONDUCTIVITY MEASUREMENTS ON PBSE SINGLE CRYSTALS WITH NATURAL P-N JUNCTION 67-10 M15-78446
OPTICAL ENERGY GAPS OF PBSE-SNTE, PBSE-SNSE, PBTE-SNTE AND PBTE-SNSE 67-10 M16-79335

LEAD ORES
SEE ALSO GALENA

LEAD ORES, BENEFICIATION
COMPUTER CONTROL IMPROVES METALLURGY AT TENNESSEE COPPERS FLOTATION PLANT 67-02 M02-59496
LABORATORY TESTS OF WOOD RESIN OIL USED FOR FLOTATION OF OXIDE AND MIXED LEAD-ZINC ORES AND MINERALS OF ENVELOPING ROCKS 67-02 M02-59639
LEACHING ROASTED ZN-CU-PB CONCENTRATES WITH SULFURIC ACID UNDER PRESSURE 67-04 M02-67857
SEPARATION OF LEAD-COPPER CONCENTRATES BY THE SULFITE METHOD 67-05 M02-69266
TECHNOLOGY OF PRODUCING HIGH-GRADE CONCENTRATES FROM TIN-LEAD RAW MATERIAL 67-05 M02-69272
THE BEHAVIOR OF VERY FINE-GRAINED, COMPLEX SULFIDE ORES DURING FLOTATION 67-05 M03-69118
SEPARATION OF NONFERROUS METAL SULFIDES BY USING NA2S2O3 67-08 M02-74861
STUDY OF THE ADSORPTION OF OLEIC ACID ON SOME OXIDIZED LEAD MINERALS 67-09 M02-76717
ELECTROKINETIC ANALYSIS OF THE INTERACTION OF FLOTATION REAGENTS WITH SOME OXIDIZED LEAD MINERALS 67-09 M02-76819
ON THE PROBLEM OF TRANSFORMATIONS TAKING PLACE WITH OXIDIZED LEAD MINERALS DURING THEIR SULFIDIZING ROASTING 67-09 M02-76820
BENEFICIATION OF OSOGOVO DEPOSIT ORES 67-09 M02-76877
HOW SIZE OF MINERALS AFFECTS THEIR FLOTABILITY 67-09 M02-76895
DRESSABILITY OF POLYMETALLIC ORES FROM THE SEVERNI RODOPI DEPOSITS, SMOLYANSK REGION 67-09 M02-77750
SYSTEMS FOR ENRICHING POLYMETALLIC ORES WITH HIGH PYRITES CONTENTS 67-09 M02-77762
ADVANCES IN CONCENTRATION TECHNIQUES OF LEAD-ZINC ORES 67-10 M02-79862
COMBINED BENEFICIATION--METALLURGICAL METHOD FOR PROCESSING CASSITERITE-SULFIDE ORES 67-11 M02-81503
POSSIBILITIES OF INCREASING GOLD AND SILVER EXTRACTION IN THE BENEFICIATION OF OXIDIZED LEAD ORES FROM THE FIFTH LODE OF THE MADZHAROVO DEPOSIT 67-11 M02-81616
NOBLE METAL RECOVERY FROM BALANCED LEAD ORES OF THE MADZHAROVO DEPOSIT 67-11 M03-81614
NEW ECONOMIC CONSIDERATIONS APPLYING TO BENEFICIATION FLOTATION OF ORES 67-12 M02-82609
HEAT TRANSFER IN SINTER ROASTING 67-12 M02-83080
SEPARATION OF LEAD-COPPER CONCENTRATES WITH SOLUBLE MANGANESE COMPOUNDS 67-12 M02-83316
METHOD OF SEPARATING LEAD-ZINC-PYRITE BULK CONCENTRATES 67-12 M02-83443
POSSIBILITIES OF EXTRACTING LEAD FROM KREMIKOV ORE BY FLOTATION TECHNIQUES 67-12 M02-83444
EFFECT OF SOLUBLE SALTS ON THE FLOTABILITY OF SOME OXIDIZED LEAD MINERALS DURING XANTHATE FLOTATION 67-12 M02-83445
INVESTIGATION OF THE POSSIBILITY OF REDUCING THE HARMFUL EFFECT OF SOLUBLE SALTS ON THE FLOTATION OF OXIDIZED LEAD MINERALS BY USING HYDROXYLIC COLLECTORS 67-12 M02-83446
STUDY OF THE EFFECT OF THE LENGTH OF THE HYDROCARBON CHAIN OF XANTHATES DURING FLOTATION OF OXIDIZED LEAD MINERALS 67-12 M02-83447

LEAD ORES, CHEMICAL ANALYSIS
PHASE ANALYSIS BY CHEMICAL METHODS IN ORES AND MINE PRODUCTS 67-05 M19-69120

LEAD ORES, REACTIONS /CHEMICAL/
RECOVERING NON-FERROUS AND RARE METALS FROM LEAD CAKES, USING THE SULFATIZATION METHOD 67-04 M03-67522
REDUCTION OF CERUSSITE WITH CARBON MONOXIDE 67-10 M03-79829

LEAD ORES, REDUCTION /CHEMICAL/
ON THE BEHAVIOR OF COMPONENTS OF OXIDIZED LEAD-ZINC ORE DURING REDUCTION WITH CARBON 67-08 M03-74893
INVESTIGATION OF THE DETINNING OF RAW LEAD 67-08 M03-75691

LEAD ORES, REFINING
KINETICS OF THERMAL DECOMPOSITION OF CERUSSITE 67-09 M03-77035

LEAD PLATING
PLATING LEAD ON STEEL 67-09 M12-76480
HOMOGENEOUS LEAD COATINGS ON STEEL 67-09 M12-76615

LEADED BRASSES, MACHINING
MACHINABILITY OF COPPER AND COPPER-BASE ALLOYS 67-01 M08-58687
BRASS MACHINABILITY--THE STORY BEHIND BLUE DOT

LEADED BRASSES
67-04 M08-68101
SOME CONSIDERATIONS ON THE BEHAVIOR OF LEAD IN THE CUTTING OF LEADED BRASS 67-11 M08-81062
LEADED RED BRASS
SEE LEADED BRASSES
LEADED SEMI RED BRASS
SEE LEADED BRASSES
LEADED STEELS, MACHINABILITY
MACHINABILITY OF STEEL WITH ADDITIONS OF SELENIUM AND LEAD 67-02 M08-61300
LEADED STEELS, MACHINING
MACHINABILITY AND METALLURGY OF RESULFURIZED LOW-CARBON FREE-MACHINING STEELS 67-01 M08-58688
THE USE OF CUTTING TEMPERATURE AS A MEASURE OF THE MACHINABILITY OF STEELS 67-12 M08-82948
LEAF SPRINGS, MECHANICAL PROPERTIES
USE OF THREE-LAYER U7-30-U7 STEELS FOR AUTOMOBILE SPRINGS 67-08 M20-74968
LEAKAGE
INVESTIGATION OF THE PRESSURE TIGHTNESS OF GRAY CAST IRON 67-01 M15-57323
INVESTIGATION OF THE HYDRAULIC SOUNDNESS OF GREY CAST IRONS 67-07 M15-73045
STUDY ON SLIGHT LEAKAGE FROM A REACTOR CONTAINMENT VESSEL. REPORT OF THE SUBCOMMITTEE ON SLIGHT LEAKAGE 67-11 M11-80497
EQUIPMENT TESTING. LEAK TESTING ASSURES SOUND VESSELS 67-11 M19-81569
LEAKS
SEE LEAKAGE
LEVEL INDICATORS
DETERMINATION OF THE LEVEL OF LIQUID STEEL IN AN INGOT MOLD FOR CONTINUOUS CASTING OF STEEL 67-02 M04-59499
AUTOMATED CHARGE LEVEL METERING 67-04 M19-66030
RADIOISOTOPE APPARATUS IN THE IRON AND STEEL INDUSTRY 67-06 M04-71118
LEVELING
SEE ALSO ROLLER LEVELING
STRETCHER LEVELING
NEW LEVELING PRESS FOR DIE-CASTING DIES 67-11 M18-80386
TENSION LEVELING OF FERROUS AND NONFERROUS STRIP 67-12 M07-82928
LEVITATION MELTING
APPLICATION OF LEVITATION MELTING FOR PHYSICOCHEMICAL STUDY 67-02 M14-61745
LEVIATION MELTING APPARATUS FOR PHASE EQUILIBRIA STUDIES 67-03 M10-65985
STUDY OF SLAG-METAL EQUILIBRIA BY LEVITATION MELTING.. APPLICATION TO THE FE-MN-O SYSTEM 67-04 M14-66984
THE SOLUBILITY OF NITROGEN IN MOLTEN IRON ALLOYS BY ARC AND LEVITATION MELTING 67-04 M14-67588
LEVITATION MELTING. PT. 2. QUALITIES OF LEVITATION COILS AND LEVITATION EXPERIMENTS 67-10 M03-78688
LEVITATION MELTING 67-10 M03-79733
DECARBURIZATION OF A LEVITATED IRON DROPLET IN OXYGEN 67-12 M04-82862
LIFE
SEE CARRIER LIFE
SHELF LIFE
TOOL LIFE
LIFTING
SEE HOISTING
LIGHT /ILLUMINATION/
SEE POLARIZED LIGHT
LIGNITE
REDUCTION OF IRON ORE IN FUEL-MELTING MATERIALS 67-04 M04-66610
LIME SODA SINTER PROCESS
LIME SODA SINTER PROCESS. CORRELATION OF REACTION PRODUCTS WITH EXTRACTABILITY OF ALUMINA FROM ANORTHOSITE 67-06 M02-71412
LIMESTONE
REMOVING HARMFUL IMPURITIES FROM THE METAL IN OXYGEN CONVERTER STEELMAKING 67-04 M04-67685
LIMESTONE, DECOMPOSITION
KINETICS OF THERMAL DECOMPOSITION OF LIMESTONE 67-07 M14-72569
LIMESTONE, SINTERING
SIZED LIMESTONE FOR IRON ORE SINTERING 67-01 M02-57510
LIMESTONE, STEEL MAKING
LIMESTONE AS A COOLANT IN THE BASIC OXYGEN PROCESS 67-03 M04-65530
LINE DEFECTS
SEE DISLOCATIONS
LINE FREQUENCY INDUCTION FURNACES
SEE LOW FREQUENCY INDUCTION FURNACES
LINE SPECTRA
SUPPLEMENT TO ELECTRON DIFFRACTION AT LOW TEMPERATURE RADIAL DISTRIBUTION ANALYSIS OF A FILM COMPOSED OF VERY FINE CRYSTALLITES 67-06 M13-71548
X-RAY STUDY OF COLD-WORKED MAGNESIUM 67-06 M13-71661
STRUCTURE FORMATION OF CARBONYL IRON POWDER 67-07 M13-73292
ANALYSIS OF THE BROADENING AND CHANGES IN POSITION OF PEAKS IN AN X-RAY POWDER PATTERN 67-08 M13-75342
EVALUATION FROM X-RAY DIFFRACTION PROFILES OF FOURIER COEFFICIENTS AND THE MICROSTRAIN DISTRIBUTION FUNCTION 67-08 M13-75343
EXAMPLES OF APPLICATIONS OF LINE BROADENING 67-08 M13-75344
ANALYSIS OF THIN FILMS 67-08 M13-75345
X-RAY AND FATIGUE STUDIES OF HARDENED AND COLD-WORKED STEELS 67-08 M17-75346
LINEAL ANALYSIS
STUDY OF THE CHANGE IN ELECTRON STRUCTURE OF NI AND ITS ALLOYS WITH GA AND GE DURING DEFORMATION BY THE METHOD OF ELECTRON-POSITRON ANNIHILATION 67-06 M16-71477
LINERS
SEE ALSO BRAKE LININGS
CYLINDER LINERS
ELECTROLYTIC CELL LININGS
FURNACE LINERS
LADLE LININGS
WHAT CAUSES REFRACTORY WEAR 67-01 M17-57435
CONTROL OF HEARTH REFRACTORY DECOMPOSITION IN IDLE BASIC OPEN HEARTH FURNACES 67-03 M04-65515
REFRACTORY PROBLEMS AND TECHNIQUES ON A 230-TON OXYGEN FURNACE 67-03 M04-65531
CRUCIBLE LININGS FOR CORELESS ELECTRIC INDUCTION FURNACES 67-05 M06-69887
USING INSERTS IN SHEET FORMING DIES 67-05 M20-69494
LINERS, COATING
STUDY OF VIBROARC BUILDING OF BRONZE ON STEEL 67-01 M12-58027
LINERS, FAILURE
POTLINING FAILURES IN ALUMINUM ELECTROLYSIS CELLS 67-06 M03-71385
LINERS, LIFE
ENGINEERING EXPERIENCE IN BASIC OXYGEN STEELWORKS 67-06 M04-71947
CONVERTERS AND LANCES AT THE BAGNOLI WORKS --OF ITALSIDER-- 67-06 M05-71949
PROLONGING LINING LIFE IN AN LD VESSEL 67-06 M05-71951
LINERS, MAINTENANCE
MAINTENANCE OF THE VESSEL, CONTROLS, AND LANCE AT SPENCER WORKS 67-06 M04-71950
LINERS, MECHANICAL PROPERTIES
PRINCIPLES OF THE PRODUCTION OF REFRACTORY LIGHT-WEIGHT BRICKS BY THE FOAMING METHOD 67-07 M04-73206
LINERS, MICROSTRUCTURE
ROLE OF TITANIA IN BAUXITE REFRACTORIES 67-07 M04-73622
LINERS, REACTIONS /CHEMICAL/
FORMATION OF ALKALI SILICATES AND ALUMINO-SILICATES AND THEIR OCCURRENCE IN BLAST FURNACES 67-04 M14-66139
LINERS, SERVICE TIME
REFRACTORIES FOR BASIC OXYGEN FURNACES 67-01 M04-58454
EXPERIMENTAL ADOPTION OF RAMMED LININGS FROM SILICEOUS COMPOUNDS FOR STEEL-POURING LADLES 67-02 M05-58893
LINING PERFORMANCE AND RELINING TECHNIQUES IN A 100 TON B. O. S. FURNACE 67-04 M04-66112
DIRECT BONDED BRICK IN OPEN HEARTH FURNACES 67-11 M04-80110
LINERS, THERMAL PROPERTIES
THERMAL PROPERTIES OF MOLD COATING IN THE METAL MOLD CASTING FOR CAST IRON 67-12 M06-82604
LINERS, WEAR
PRODUCTION OF STEEL BY THE BASIC OXYGEN LD PROCESS IN LARGE FURNACES 67-07 M04-72559
DEVELOPMENT OF BALANCED BASIC OXYGEN FURNACE LININGS 67-07 M05-73092
THE MECHANISM OF REFRACTORY WEAR IN OXYGEN

CONVERTERS 67-09 M04-77624
LINES /TRANSMISSION/
SEE TRANSMISSION LINES
LINING /PROCESS/
REFRACTORIES FOR ELECTRIC FURNACES SIDE WALLS AND BOTTOMS 67-01 M04-57522
METAL CONTAINERS FOR THE TRANSPORTING AND STORAGE OF CHEMICALS 67-03 M20-65728
POSSIBLE DENSIFICATION OF DRY QUARTZITE MASS IN THE REFRACTORY LINING OF INDUCTION FURNACES 67-05 M04-69313
THE EFFECTS OF THE REFRACTORY LINING ON METALLURGICAL REACTIONS IN CORELESS INDUCTION FURNACES 67-05 M04-69323
HOT REPAIRS TO THE LINING OF BASIC OXYGEN FURNACES 67-07 M04-72437
DEVELOPMENT OF BALANCED BASIC OXYGEN FURNACE LININGS 67-07 M05-73092
REFRACTORY MASS FOR LINING TUYERE COMPONENTS 67-08 M05-74889
REFRACTORY GUNNING OF BASIC OXYGEN FURNACES 67-11 M04-80115
LINKING
SEE JOINING
LINZ DONAWITZ PROCESS
SEE LD CONVERTERS
LIQUEFIED GASES
ENGINEERING STUDIES SHOW POSSIBILITIES FOR LNG PIPELINE 67-11 M20-80513
LIQUEFIED GASES, STORAGE
ARC WELDING LOW-ALLOY STEEL THICK-WALLED PIPES OPERATING UNDER 180-320 ATMOSPHERES 67-01 M11-57536
LIQUEFIED GASES, STORAGE TANKS
MANUFACTURE OF OIL REFINING EQUIPMENT OF QUENCHED AND TEMPERED LOW-ALLOY STEEL 67-01 M17-57604
LIQUID COOLING
SEE ALSO WATER COOLING
COOLING RATES IN SPLAT COOLING 67-08 M10-75782
LIQUID FLOW
GATING IN DIE CASTING 67-04 M06-66637
POURING RATE AND NOZZLE WEAR OF STEEL PLANT LADLES 67-07 M04-73241
PRESSURE DIE CASTING AND THE MANIFOLD PROBLEM 67-12 M06-82901
FLOW CHARACTERISTICS OF MOLTEN LEAD 67-12 M15-83081
LIQUID FUELS
SEE FUEL OIL
KEROSENE
LIQUID GASES
SEE LIQUEFIED GASES
LIQUID LIQUID EXTRACTION
RECENT DEVELOPMENTS IN SOLVENT EXTRACTION TECHNOLOGY 67-02 M03-61586
LIQUID METAL EXTRACTION
PURIFICATION OF BERYLLIUM BY EXTRACTION FROM A METALLIC SOLVENT 67-03 M03-65247
LIQUID METAL TRANSFER
SEE MELT TRANSFER
LIQUID METALS
THE EFFECT OF GRAIN BOUNDARY PENETRATION ON THE DELAYED FAILURE OF CU-2 PER CENT BE 67-04 M17-66921
THE ALU-SCHMELZTESTER--A NEW INSTRUMENT FOR THE DETERMINATION OF HYDROGEN IN ALUMINUM MELTS 67-07 M19-74032
LIQUID METALS, ACTIVITY /CHEMICAL/
INVESTIGATION OF THE ACTIVITY OF PHOSPHORUS IN LIQUID IRON 67-08 M14-75658
THE EFFECT OF SULFUR ON THE ACTIVITY OF OXYGEN IN IRON, COBALT AND NICKEL MELTS AT 1600 C 67-08 M14-75659
LIQUID METALS, ATOMIC PROPERTIES
KNIGHT SHIFTS IN LIQUID BINARY ALLOYS CONTAINING DIVALENT METALS 67-07 M16-73492
CLUSTERING IN LIQUID ALUMINUM-COPPER AND LEAD-TIN EUTECTIC ALLOYS 67-11 M16-81345
COMPARISON OF THE ATOMIC DISTRIBUTION FUNCTIONS OF LIQUID AND SOLID METALS 67-12 M16-83005
LIQUID METALS, ATOMIZING
THE ATOMIZING OF MELTS 67-04 M09-68123
THE MECHANISM OF BREAKING THE LIQUID METAL STREAM BY A GAS JET 67-08 M09-75423
LIQUID METALS, CASTING
FERROUS METAL DIE CASTING PROVED FEASIBLE IN GE LABORATORY 67-03 M06-65469
A CONTACTLESS SYSTEM FOR MEASURING MOLTEN IRON TEMPERATURE AND OPTIMUM REGULATION OF CUPOLA BLAST 67-04 M06-66417
MOLDING-MELTING BALANCE IN THE MODERNIZATION OF FOUNDRIES 67-05 M06-69583
NEW ELECTRIC ARC FURNACE INITIATES SEMI-CONTINUOUS CASTING, EXTRUDING AND DRAWING OF COPPER TUBING AT HALSTEADS WYNNE PLANT 67-06 M03-71317
RESEARCH ON THE BEHAVIOR OF CAST METALS IN MOLD CAVITIES BY COLOR METHOD 67-12 M06-82449
LIQUID METALS, CHEMICAL ANALYSIS
DIRECT ELECTROCHEMICAL DETERMINATION OF THE OXYGEN CONTENT OF LIQUID METALS 67-07 M19-72703
DIRECT ELECTROCHEMICAL DETERMINATION OF THE OXYGEN CONCENTRATION IN LIQUID IRON. PT. 1. INVESTIGATIONS INTO LIQUID PURE IRON 67-07 M19-72704
MEASURING THE TEMPERATURE OF MOLTEN IRON WITH AN OPTICAL PYROMETER 67-07 M19-74039
IRON FOR STEELMAKING AT CORBY 67-08 M04-74656
USE OF ALUSCHMELTZTESTER FOR DETERMINING HYDROGEN CONTENT IN AL MELTS 67-08 M19-75378
DIRECT ELECTROCHEMICAL DETERMINATION OF THE OXYGEN CONTENT OF METAL MELTS. PT. 2. INVESTIGATIONS CARRIED OUT ON SILVER, TIN AND LEAD MELTS 67-09 M19-77190
LIQUID METALS, COATINGS
DIFFRACTOMETRIC STUDY OF THE RECRYSTALLIZATION OF TIN UNDER THE EFFECT OF LIQUID GALLIUM 67-02 M14-59659
LIQUID METALS, COOLING
COOLING RATES IN SPLAT COOLING 67-08 M10-75782
LIQUID METALS, CORROSION
THE NON-SELECTIVE CORROSION OF ALLOY STEELS IN LIQUID LOW MELTING POINT METALS 67-02 M18-59894
CORROSION RESISTANCE OF SOME METALS IN MOLTEN ALUMINUM 67-05 M18-69836
RESISTANCE OF SOME MATERIALS IN MOLTEN TIN 67-08 M18-75147
MECHANISM OF CORROSION CRACKING OF STRAINED METAL, INTERACTING WITH MOLTEN LITHIUM 67-11 M18-80580
CORROSION RESISTANCE OF CERTAIN METALLIC MATERIALS IN MOLTEN ALUMINUM 67-12 M18-82269
THE NATURE OF THE CORROSIVE ACTION OF OXYGEN-BEARING LIQUID SODIUM UPON STEEL 67-12 M18-82439
LIQUID METALS, CORROSION EFFECTS
INHIBITION OF THE REACTION OF MOLTEN ALUMINUM ON REFRACTORIES CONTAINING SILICA, BY TRACES OF MAGNESIUM 67-02 M03-62000
LIQUID METALS, CORROSION ENVIRONMENTS
RESISTANCE OF CORUNDUM CERAMIC TO LIQUID POTASSIUM-SODIUM ALLOY 67-05 M18-68600
LIQUID SODIUM TECHNOLOGY DEVELOPMENT. PT. 1. TEST LOOPS, PURIFICATION METHODS AND CORROSION TESTS 67-05 M18-68647
CORROSION OF MATERIALS BY LIQUID METALS 67-05 M18-69193
LIQUID METALS, CRYSTAL GROWTH
THERMAL CONVECTION AND CRYSTAL GROWTH 67-06 M14-71036
THE EFFECT OF ULTRASOUND ON THE CRYSTALLIZATION OF METALS AND ALLOYS DURING SOLIDIFICATION AND STRUCTURAL VARIATIONS TAKING PLACE IN THE SOLID STATE 67-06 M14-71112
LIQUID METALS, CRYSTALLIZATION
KINETICS OF ISOTHERMAL CRYSTALLIZATION OF CHROMIUM PIG IRONS 67-04 M14-66007
THE EFFECT OF CAPILLARINACTIVE ADDITIVES UPON THE CRYSTALLIZATION OF FUSED METALS 67-07 M14-72423
LIQUID METALS, DIFFUSION
INCREASE IN THE PERFORMANCE OF STEELS IN MELTS OF FUSIBLE METALS USING METHODS OF STRENGTHENING--TECHNOLOGY 67-01 M17-57670
ROLE OF OXYGEN IN THE ADSORPTIVE DECREASE IN STRENGTH OF STEEL SPECIMENS IN CONTACT WITH A MELT 67-02 M17-59657
EFFECT OF METALS DISSOLVED IN MERCURY ON THE ADSORPTIVE DECREASE IN STRENGTH OF ZINC 67-02 M17-59658
DIFFUSION IN LIQUID METALS 67-05 M14-68517
THE SOLUTION OF CARBON IN LIQUID RAW IRON 67-08 M14-75067
OXYGEN IN SILVER 67-08 M14-75627
OXYGEN DIFFUSION IN MELTED IRON 67-08 M14-75869
STUDY OF THE DIFFUSION OF SODIUM AND POTASSIUM IN IRON 67-11 M14-80582

LIQUID METALS

THE DIFFUSION OF HYDROGEN IN LIQUID IRON
67-12 M14-82753
ELECTROMIGRATION OF CADMIUM AND INDIUM IN LIQUID BISMUTH 67-12 M14-82957
THE DIFFUSIVITY OF OXYGEN IN LIQUID SILVER
67-12 M14-82984
THE DURABILITY OF THE MELTING VESSEL IN THE ZN-DESILVERIZATION OF PB 67-12 M17-82830

LIQUID METALS, DISSOLVING
DETERMINATION OF THE DISSOLUTION RATE OF MATERIALS IN LIQUID METALS 67-02 M14-60978
INFLUENCE OF CARBURIZING AND CHROMIZING ON INTERACTION BETWEEN IRON AND LIQUID ZN
67-02 M18-61992
DISSOLUTION OF COMMERCIALLY AVAILABLE SILICON NITRIDE INTO LIQUID IRON 67-08 M14-75305

LIQUID METALS, ELECTRICAL PROPERTIES
THE EFFECT OF PRESSURE ON THE RESISTIVITY AND THERMOELECTRIC POWER OF LIQUID MERCURY-INDIUM ALLOYS 67-02 M15-60807
ELECTRICAL CONDUCTIVITY OF LIQUID ALLOYS OF THE LEAD-SODIUM AND LEAD-POTASSIUM SYSTEMS
67-02 M15-61720
ELECTRICAL PROPERTIES OF SOME LIQUID SEMICONDUCTORS
67-02 M16-60810
THERMOELECTRIC POWER OF LIQUID DILUTE ALLOYS OF MERCURY 67-03 M15-65636
ELECTRONS IN LIQUID METALS 67-03 M16-65934
ELECTRICAL RESISTANCE OF IRON-CARBON MELTS
67-04 M15-66087
THE RESISTIVITY OF DILUTE SOLUTIONS OF MAGNESIUM IN LITHIUM IN THE LIQUID AND SOLID STATES
67-05 M15-68289
PREDICTED RESISTIVITIES OF LIQUID SILVER-TIN ALLOYS
67-06 M15-71990
ANISOTROPY OF GALLIUM CONTRIBUTES TO FALSE CLASSIFICATION WITH ANTIMONY AND BISMUTH
67-07 M15-73493
RESISTIVITY OF LIQUID LEAD-TIN ALLOYS
67-07 M15-74243
BRAGG REFLECTION OF ELECTRONS IN LIQUID ALLOYS
67-11 M15-80182
ELECTRICAL RESISTIVITY OF MOLTEN CESIUM AT HIGH PRESSURES 67-11 M15-80759
LIQUID PHASE MAGNETOHYDRODYNAMIC GENERATORS AND THE TECHNOLOGY OF THE ALKALI METALS
67-12 M20-82835

LIQUID METALS, EVAPORATION
EVAPORATION OF PERMALLOY BY ELECTRON BOMBARDMENT
67-08 M14-75158

LIQUID METALS, EXTRUSION
TEMPERATURE CONDITIONS OF THE STAMPING TOOL IN FLUID STAMPING 67-12 M08-82064

LIQUID METALS, FILTRATION
FILTERING SECONDARY ALUMINUM ALLOYS
67-04 M03-67510

LIQUID METALS, FLOW
STUDY OF THE FLOW AND DISINTEGRATION OF A METAL STREAM INTO DROPLETS 67-08 M04-74345

LIQUID METALS, FORMING
STAMPING OF LIQUID STEEL 67-09 M08-76409

LIQUID METALS, IMPREGNATION
IMPREGNATION OF SINTERED ARTICLES WITH LIQUID METALS 67-06 M09-70213

LIQUID METALS, MAGNETIC PROPERTIES
LOCALIZED IMPURITY STATES IN LIQUID METALS--PARAMAGNETIC SUSCEPTIBILITIES OF MANGANESE IN LIQUID METALS 67-08 M15-75053

LIQUID METALS, MECHANICAL PROPERTIES
PROPAGATION OF A CRACK FILLED WITH LIQUID METAL
67-02 M17-59434
CREEP STRENGTH OF 40KH STEEL AT COMPLEX STRESS STATE IN PB-SN EUTECTIC 67-07 M17-73165

LIQUID METALS, MICROSTRUCTURE
STRUCTURE OF LIQUID ALUMINIUM-COPPER ALLOYS
67-10 M13-78603

LIQUID METALS, OXIDATION
EFFECT OF SILICON, BORON AND CALCIUM ON OXIDATION OF LIQUID IRON-CHROMIUM ALLOYS
67-08 M18-75870
CONTRIBUTION TO THE STUDY OF THE PHENOMENA OCCURRING DURING THE OXIDATION OF A STEEL BATH
67-09 M14-76379

LIQUID METALS, PHASE TRANSFORMATIONS
THE STRUCTURE OF LIQUID GERMANIUM
67-11 M14-81637

LIQUID METALS, PHYSICAL PROPERTIES
NOMOGRAM TO FIND THE PRAN-DTL NUMBER OF CERTAIN LIQUID METALS 67-01 M15-58153
THE SOLUBILITY OF TANTALUM AND TUNGSTEN IN LIQUID RARE-EARTH METALS 67-03 M14-65131
VAPOR PRESSURE OF BERYLLIUM AND LIQUID SILVER
67-03 M15-65237
ELECTRICAL CONDUCTIVITY AND ELECTRODE PROCESSES IN LIQUID AND SOLID THALLIUM SULFIDES AND SELENIDES
67-03 M15-65585
DENSITY OF LIQUID FE-S AND FE-P ALLOYS
67-03 M15-65775
THE SOLUBILITIES OF CARBON, TANTALUM, TUNGSTEN AND RHENIUM IN LIQUID PLUTONIUM 67-06 M15-70890
OXYGEN PRESSURE IN LIQUID IRON. PT. 6. STUDY OF OXYGEN CONCENTRATION CELLS AT HIGH TEMPERATURE
67-06 M15-72269
LOCALIZED IMPURITY STATES IN LIQUID METALS--DILUTE ALLOYS OF NICKEL IN LIQUID BISMUTH
67-07 M15-73986
THEORETICAL DETERMINATION OF THE SURFACE ENERGY AND EFFECTIVE ION CHARGE IN LIQUID METALS
67-08 M15-74321
GASES IN METALS 67-08 M15-74559
THE RELATIONSHIP BETWEEN ELECTRICAL CONDUCTIVITY AND SOUND VELOCITY IN MOLTEN METALS
67-08 M15-74649
ON STRUCTURAL CHANGES IN LIQUID THALLIUM
67-08 M15-74865
CONTAINMENT OF LIQUID METALS AT HIGH TEMPERATURES AND THE ESTIMATION OF THEIR PROPERTIES
67-09 M15-77504
PROPAGATION OF SOULD IN LIQUID METALS
67-09 M15-77757
FLUX-PROTECTED METHOD OF MEASURING THE VISCOSITY OF MOLTEN METALS 67-10 M15-78857
STUDY OF THE ELECTRICAL CONDUCTIVITY OF CDSNAS2 IN THE SOLID AND LIQUID STATES 67-10 M15-79831
SOLUBILITY OF HYDROGEN IN LIQUID IRON AND IN SOME LIQUID BINARY IRON ALLOYS 67-11 M14-80943
APPROXIMATE CALCULATION OF THE SURFACE TENSION OF MOLTEN ALKALI METALS 67-11 M15-80653
A STUDY ON THE VISCOSITY OF MOLTEN IRON
67-11 M15-80942
DETERMINING THE INTERFACIAL TENSION OF LIQUID IRON ON A BOUNDARY WITH COKE 67-11 M15-81666

LIQUID METALS, PUMPING
THIN-WALLED CHANNELS OF A LINEAR INDUCTION PUMP FOR THE TRANSFER OF MOLTEN ALUMINUM
67-06 M03-70374

LIQUID METALS, REACTIONS /CHEMICAL/
CHANGE OF THE DISSOLVED OXYGEN CONTENT IN SILICON DEOXIDATION 67-01 M04-58308
BEHAVIOR OF SOME NITRIDES OF THE TRANSITION METALS AND OF ALUMINUM NITRIDE TOWARD LIQUID METALS
67-05 M14-69060
INVESTIGATIONS INTO THE MECHANISM OF THE REACTIONS OF SULPHUR AND MANGANESE IN CARBON-SATURATED IRON UNDER A CAO-SIO2-AL2O3 SLAG 67-06 M14-70255
INFLUENCING SULPHUR ACTIVITY IN CARBON-SATURATED HOT METAL BY ADDING MANGANESE, PHOSPHORUS, OR CHROMIUM 67-06 M14-70256
REACTION BETWEEN VITREOUS SILICA AND MOLTEN ALUMINUM 67-06 M14-71165
SCALE FORMATION ON STEEL AT TEMPERATURES OF INTEREST IN HOT WORKING 67-08 M18-75517
MEASUREMENT OF OXYGEN PRESSURE IN LIQUID IRON BY THE OXYGEN CONCENTRATION CELLS WITH THE SOLID ELECTROLYTE, ZRO2.CAO 67-10 M19-79992
MEASUREMENT OF OXYGEN ACTIVITY IN IRON, IRON-SILICON MANGANESE, AND IRON-MANGANESE MELTS USING SOLID ELECTROLYTE GALVANIC CELLS
67-12 M15-82741

LIQUID METALS, REFINING
THE STATE OF MAGNESIUM IN LIQUID IRON
67-02 M06-59182
DEGASSING OF ALUMINIUM AND LIGHT ALLOYS BY BUBBLING-THROUGH NITROGEN THROUGH POROUS REFRACTORY ELEMENTS 67-02 M06-60503
DEOXIDATION OF STEEL--WHAT HAPPENS FROM TAP TO SOLIDIFICATION 67-04 M04-68047
PROCESS OF TAP DEGASSING OF STEEL
67-05 M04-68728
MEASUREMENT OF THE RATE OF DEOXIDATION OF LIQUID STEEL BY THE EMF METHOD. PT. 7. STUDY OF OXYGEN CONCENTRATION CELLS AT HIGH TEMPERATURES
67-06 M04-72132
METHOD OF DETERMINING DISSOLVED OXYGEN AFTER THE ADDITION OF SILICON TO LIQUID STEEL FOR DEOXIDATION. PT. 1. INVESTIGATION OF DISSOLVED OXYGEN AFTER ADDITION OF DEOXIDANT
67-06 M04-72133

THE DEOXIDATION OF LIQUID IRON WITH TITANIUM
67-06 M04-72213
DEOXIDATION OF LIQUID IRON WITH CALCIUM SILICIDE. PT. 1. STUDY OF THE BEHAVIOR OF COMPLEX DEOXIDANTS 67-06 M04-72390
REMOVAL OF SILICON DURING CARBON ELIMINATION FROM LIQUID IRON USING STEAM-ARGON MIXTURES
67-06 M04-72391
AUXILIARY INSTALLATIONS FOR THE TREATMENT OF MELTS OF ALUMINUM AND ITS ALLOYS WITH CHLORINE
67-07 M03-74034
APPLICATION OF ULTRASONIC VIBRATIONS TO THE REMOVAL OF SULFUR FROM LIQUID PIG IRON
67-07 M04-72725
ELECTROMAGNETIC CHARGING OF MOLTEN METAL TO IMPROVE THE PURITY OF CASTINGS
67-07 M06-74043
VACUUM DEGASSING OF LIQUID METALS WITH A GAS BUBBLE PUMP 67-08 M03-75048
PROGRESS IN THE OXYGEN AND NITROGEN CONTROL IN STEEL PRODUCTION 67-08 M04-74451
DEOXIDATION OF LIQUID STEEL WITH ALUMINUM AND ELIMINATION OF THE RESULTING ALUMINA
67-08 M04-75313
BLOWING A THROUGH MOLTEN STEEL FOR DEGASSING AND STIRRING BY THE GAZAL PROCESS
67-08 M04-75794
KINETICS OF THE REACTION OF REMOVAL OF HYDROGEN AND NITROGEN FROM LIQUID STEEL 67-09 M14-77354
STATE OF MAGNESIUM IN MOLTEN CAST IRON
67-10 M06-78891
FILTERING ALUMINUM ALLOYS 67-12 M03-81971
DEOXIDATION OF LIQUID COPPER BY A SUBMERGED GAS JET 67-12 M03-82746

LIQUID METALS, SEMICONDUCTORS
ELECTRIC PROPERTIES OF SEMICONDUCTOR MELTS OF TI-S SYSTEM 67-02 M15-61203

LIQUID METALS, SOLIDIFICATION
NUCLEATION OF OXIDE PARTICLES DURING SOLIDIFICATION
67-08 M14-75315
INVESTIGATIONS CONCERNING THE QUESTION OF ELECTRON EMISSION DURING THE SOLIDIFICATION OF METAL MELTS
67-09 M14-76793

LIQUID METALS, SOLUBILITY
SOLUBILITY OF HYDROGEN IN LIQUID NICKEL
67-08 M14-75406
THE SOLUBILITY OF HYDROGEN IN MOLTEN NICKEL
67-12 M14-82027
SOLUBILITY OF HYDROGEN IN LIQUID TITANIUM AND NICKEL 67-12 M14-82165

LIQUID METALS, SORPTION
KINETIC STUDY OF THE ABSORPTION OF OXYGEN FROM THE AIR BY LIQUID SILVER 67-10 M14-79924
DECARBURIZATION OF IRON-CARBON MELTS IN CO2-CO ATMOSPHERES--KINETICS OF GAS-METAL SURFACE REACTIONS 67-12 M04-82955

LIQUID METALS, STEEL MAKING
SPRAY STEELMAKING--A DESCRIPTION OF THE PROCESS
67-04 M04-68109

LIQUID METALS, SURFACE PROPERTIES
THE ESTIMATION OF THE SURFACE TENSION OF METAL OXIDES 67-01 M15-57425
LIQUID METALS. PT. 7. THE SURFACE TENSION OF LIQUID BISMUTH IN PURE AND IMPURE HYDROGEN, IN OTHER GASES AND IN VACUO 67-01 M15-58653
THE EFFECT OF ZIRCONIUM ON THE SURFACE PROPERTIES OF LIQUID NICKEL AT THE MELT-GAS AND MELT-SOLID ALUMINUM OXIDE INTERFACES 67-02 M15-62113
EFFECT OF SMALL ADDITIONS ON SURFACE TENSION OF METALS 67-02 M15-62230
ADHESION OF NITRIDES TO STEEL AND SLAG
67-06 M15-70266
STUDY OF THE SURFACE TENSION OF LIQUID SODIUM AND POTASSIUM 67-06 M15-72040

LIQUID METALS, THERMAL MEASUREMENTS
DIGITAL TEMPERATURE MEASUREMENTS WITH IMMERSION THERMOCOUPLES 67-08 M19-75114

LIQUID METALS, THERMAL PROPERTIES
THE ABSOLUTE THERMOELECTRIC POWER OF LIQUID METALS
67-01 M15-57972
HEAT OF MIXING IN LIQUID ALLOYS
67-03 M15-65163
THERMAL SHOCK RESISTANCE OF CAST IRONS
67-04 M17-67260
TEMPERATURE PROFILES AND EDDY DIFFUSIVITIES IN LIQUID METALS 67-05 M15-69102
INVESTIGATION OF THE HEAT CONDUCTIVITY OF CERTAIN METALS ON TRANSITION FROM THE SOLID TO THE LIQUID STATE 67-05 M15-69394
EXPERIMENTAL INVESTIGATION OF THE THERMAL CONDUCTIVITY OF LIQUID CESIUM
67-09 M15-76766
STRUCTURAL FEATURES OF TIN-ANTIMONY ALLOYS IN THE LIQUID STATE 67-11 M15-81043
THERMOELECTRIC POWER OF SOME METALS AND ALLOYS IN THE LIQUID STATE 67-11 M15-81047
THERMODYNAMIC PROPERTIES OF LIQUID SOLUTIONS OF METALS. PT. 13. THE SYSTEM ZN-ID-CD AND IN-CD
67-11 M15-81638

LIQUID METALS, THERMODYNAMICS
THERMODYNAMICS OF DILUTE SOLUTIONS OF PLUTONIUM IN LIQUID MAGNESIUM 67-01 M15-57405
THERMODYNAMIC PROPERTIES OF LIQUID SOLUTIONS OF THE ALUMINUM-TIN SYSTEM 67-02 M15-61715
EFFECT OF CERIUM ON THE ACTIVITY OF SULFUR IN MOLTEN IRON 67-04 M14-66954
HOW MOLTEN METALS SOLIDIFY--AN INSIDE STORY
67-04 M14-67247
SPECIFIC HEAT OF LIQUID TIN AT 1000 TO 1700 C
67-10 M15-79832
THERMODYNAMIC INTERACTION BETWEEN ZINC AND THE DILUTE SOLUTES ANTIMONY, BISMUTH, AND CADMIUM IN SOLUTION IN LIQUID LEAD 67-10 M15-79964

LIQUID METALS, TRANSPORT PROPERTIES
ATOM MOTION IN LIQUID ALLOYS IN THE PRESENCE OF AN ELECTRIC FIELD 67-06 M16-70573
DOUBLE INVERSION OF ELECTRIC TRANSPORT IN THE AL-ZN SYSTEM IN LIQUID STATE 67-08 M15-74645
TRANSITIONAL IMPURITIES IN LIQUID COPPER
67-09 M16-77523
MAGNETIC POLARIZATION OF TRANSITIONAL IMPURITIES IN ALUMINIUM 67-09 M16-77524
HALL COEFFICIENT OF LIQUID METALS HG, GA, IN, AND SN, AND OF IN2BI AND HG-SN ALLOYS
67-11 M15-81049

LIQUID METALS, WETTABILITY
WETTING OF SOLID-METAL SURFACES BY MOLTEN METALS
67-05 M15-69561

LIQUID METALS, X RAY ANALYSIS
AN X-RAY DIFFRACTION INVESTIGATION OF LIQUID INDIUM
67-01 M13-57947
LOCAL ORDER IN LIQUID ALLOYS 67-08 M13-75340
LIQUID METAL SAMPLE HOLDER FOR LOW-ANGLE X-RAY DIFFRACTION 67-08 M13-76153

LIQUID PHASE DIFFUSION
SEE DIFFUSION

LIQUID PHASE SINTERING
THE COALESCENCE PHENOMENON IN LIQUID-PHASE SINTERING IN THE SYSTEMS TUNGSTEN-NICKEL-IRON AND TUNGSTEN-NICKEL-COPPER 67-02 M09-62108
DETERMINATION OF THE TEMPERATURES OF INCIPIENT MELTING OF A BLAST-FURNACE BURDEN
67-03 M06-65411
MECHANISM OF LIQUID PHASE SINTERING IN THE IRON-COPPER SYSTEM 67-08 M09-75389

LIQUID PHASES
THE PARTIAL STRUCTURE FACTORS OF LIQUID CU-SN
67-02 M13-60808
THE MIXING HEATS OF SB WITH B METALS. PT. 1. SYSTEMS WITH ZN AND CD 67-05 M15-68487
ON STRUCTURAL CHANGES IN LIQUID THALLIUM
67-08 M15-74865
STUDY OF THERMOELECTROMOTIVE FORCES IN CERTAIN COMPOUNDS DURING FUSION AND IN LIQUID PHASE
67-09 M15-77120

LIQUID PHASES, DIFFUSION
METHOD OF INVESTIGATING THE KINETICS OF THE INTERACTION OF TWO LIQUID PHASES UNDER CONTROLLED CONVECTION CONDITIONS 67-12 M14-82105

LIQUIDS, PHYSICAL PROPERTIES
EFFECT OF CARBON, SILICON, PHOSPHORUS AND NICKEL ON THE SOLUBILITY OF HYDROGEN IN LIQUID IRON
67-04 M15-67181

LIQUIDUS
DETERMINING THE AMOUNT OF CARBON EQUIVALENT OF GRAY CAST IRON BY COOLING CURVES 67-06 M14-70296
LIQUIDUS IN THE ALUMINA-RICH SYSTEM LA2O3-AL2O3
67-07 M14-72832
STUDY OF THE LIQUIDUS TEMPERATURES OF THE SYSTEM CAO-P2O-SIO2-IRON OXIDE. PT. 1. 15 PER CENT FEO LEVEL 67-08 M13-76225
LIQUIDUS CURVES AND CORROSION OF FE, CR, NI, CO, V, CB, TA, TI, ZR, IN 500 TO 750 C. MERCURY
67-08 M18-76187
A PREMELTING PHENOMENON IN NA-K ALLOYS
67-09 M14-76591
DENDRITIC LIQUATION IN MULTICOMPONENT ALLOYS
67-09 M14-77281

LIQUIDUS
STUDY OF THE CORRELATION BETWEEN THE LIQUIDUS OF EQUILIBRIUM DIAGRAMS OF PHASES OF BINARY METALLIC SYSTEMS AND THE THERMOCHEMICAL DATA CONCERNING THE LIQUID STATE 67-12 M13-82472
LIQUIDUS, ALLOYING EFFECTS
DETERMINATION OF THE LIQUIDUS TEMPERATURE OF CAST IRON ALLOYS 67-08 M06-75102
LIQUORS /LIQUIDS/
SEE LIQUIDS
LITHIUM, ADSORPTION
ABSORPTION OF LITHIUM ON SINGLE-CRYSTAL TUNGSTEN FACES COATED WITH AN ADSORBED OXYGEN FILM 67-09 M14-76779
LITHIUM, ALLOYING ADDITIVE
PHASE DIAGRAM OF THE ALUMINUM-RICH PORTION OF AL-MN-LI 67-08 M13-75892
RESEARCH INTO ALUMINUM-ZINC-LITHIUM SYSTEM ALLOYS 67-09 M17-77041
THE EFFECT OF LI ON THE HIGH TEMPERATURE OXIDATION OF FE-25 CR ALLOY 67-10 M18-80010
LITHIUM, BAND THEORY
EFFECT OF ELECTRON-HOLE SCATTERING RESONANCE ON X-RAY EMISSION SPECTRUM 67-09 M16-77157
LITHIUM, BINARY SYSTEMS
THE LITHIUM-GERMANIUM SYSTEM 67-09 M13-76940
LITHIUM, CORROSION ENVIRONMENTS
CORROSION STUDIES OF TUNGSTEN MOLYBDENUM AND RHENIUM IN LITHIUM 67-04 M18-66390
MECHANISM UNDERLYING THE CORROSION OF CARBON STEELS IN LITHIUM 67-10 M18-79641
CORROSION OF STAINLESS CHROMIUM-NICKEL STEEL IN MOLTEN LITHIUM 67-10 M18-79642
LITHIUM, DIFFUSION
DIFFUSION OF LI IN INSB 67-02 M16-60520
AN ELECTROPHOTOGRAPHIC METHOD FOR DETERMINING THE DIFFUSION COEFFICIENT OF LITHIUM IN P-TYPE SILICON 67-05 M16-69379
ELECTRON MIRROR OBSERVATION OF LITHIUM PRECIPITATION AT SCRATCH-INDUCED DISLOCATIONS IN SILICON 67-06 M16-70994
ELECTRON MIRROR MICROSCOPIC INVESTIGATION OF SURFACE DIFFUSION OF LITHIUM IN SILICON 67-07 M14-72955
CORROSION RESISTANCE OF ARMCO IRON IN LIQUID LITHIUM 67-07 M18-73166
INFLUENCE OF LITHIUM ON MECHANICAL PROPERTIES OF ARMCO IRON 67-09 M17-76427
DIFFUSION AND SOLUBILITY IN GALLIUM ANTIMONIDE 67-11 M14-80626
LITHIUM, ELECTRICAL PROPERTIES
THE TEMPERATURE DEPENDENCE OF THE ELECTRICAL RESISTANCE OF ALKALI METALS AT LOW TEMPERATURES 67-01 M16-58399
THE RESISTIVITY OF DILUTE SOLUTIONS OF MAGNESIUM IN LITHIUM IN THE LIQUID AND SOLID STATES 67-05 M15-68289
LITHIUM, IMPURITIES
VIBRATIONS OF INTERSTITIAL LI PLUS IONS IN SILICON. PT. 1. FORCE CONSTANTS 67-03 M13-65562
VIBRATIONS OF INTERSTITIAL LI PLUS IONS IN SILICON. PT. 2. FREQUENCIES OF LOCALIZED MODES 67-03 M13-65563
INFRARED ABSORPTION OF LOCALIZED VIBRATION DUE TO LITHIUM IN ZINC SELENIDE AND CADMIUM SULFIDE 67-04 M16-66745
LITHIUM, LIQUID METALS
LIQUID PHASE MAGNETOHYDRODYNAMIC GENERATORS AND THE TECHNOLOGY OF THE ALKALI METALS 67-12 M20-82835
LITHIUM, PHYSICAL PROPERTIES
MISCIBILITY OF MOLTEN LITHIUM AND SODIUM 67-10 M15-79049
DENSITIES OF LITHIUM, SODIUM AND POTASSIUM AT TEMPERATURES UP TO 1500-1600 C 67-10 M15-79252
CONCENTRATION OF THE LITHIUM ISOTOPE BY MEANS OF THE HAEFFNER EFFECT 67-12 M16-82146
LITHIUM, QUATERNARY SYSTEMS
A NEW QUATERNARY LIWV207.5 PHASE 67-05 M14-68920
LITHIUM, REACTIONS /CHEMICAL/
CERAMIC THERMOCHEMISTRY 67-05 M15-69139
BEHAVIOR OF CARBON IN SYSTEMS OF THE METAL-MOLTEN LITHIUM-CARBON TYPE 67-10 M14-79640
LITHIUM, THERMODYNAMICS
INFLUENCE OF PRESSURE ON THE HEAT CAPACITY OF METALS 67-04 M15-68010
LITHIUM BASE ALLOYS, CRYSTAL LATTICES
INVESTIGATION ON NOBLE METAL-HIGH ELECTROPOSITIVE ELEMENT ALLOYS--LIPD COMPOUNDS 67-10 M13-78337
LITHIUM BASE ALLOYS, MAGNETIC PROPERTIES
NUCLEAR MAGNETIC RESONANCE IN DILUTE ALLOYS OF LITHIUM 67-05 M16-69107
LITHIUM CARBONATE
SEE LITHIUM COMPOUNDS
LITHIUM COMPOUNDS
SEE ALSO LITHIUM FLUORIDE
LITHIUM COMPOUNDS, CORROSION
CORROSION OF METALS IN THE MOLTEN LIOH-LIF-H2O SYSTEM 67-11 M18-80827
LITHIUM COMPOUNDS, CRYSTAL LATTICES
DISSOLUTION SPIRALS ON GAMMA-IRRADIATED LITHIUM FLUORIDE 67-09 M13-77439
INVESTIGATION ON NOBLE METAL-HIGH ELECTROPOSITIVE ELEMENT ALLOYS--LIPD COMPOUNDS 67-10 M13-78337
LITHIUM COMPOUNDS, MAGNETIC PROPERTIES
INFLUENCE OF HEAT TREATMENT ON THE MAGNETIC-CRYSTALLOGRAPHIC ANISOTROPY AND ROTATION-HYSTERESIS LOSS IN LITHIUM PENTAFERRITE SINGLE CRYSTALS 67-06 M15-71920
TEMPERATURE DEPENDENCE OF THE MAGNETOSTRICTION CONSTANTS OF SINGLE-CRYSTAL LITHIUM FERRITE 67-10 M15-79464
LITHIUM COMPOUNDS, OPTICAL PROPERTIES
THERMOLUMINESCENCE AND COLOR CENTERS IN LIF 67-09 M16-77438
ELECTRONIC SPECTRUM OF CRYSTALLINE LITHIUM FLUORIDE 67-11 M15-81680
LITHIUM COMPOUNDS, PHASES /STATE OF MATTER/
A NEW TYPE OF OXYGENATED BRONZES--THE MIXED VANADIUM-MOLYBDENUM BRONZES WITH A LITHIUM INSERTION 67-12 M13-82285
LITHIUM COMPOUNDS, PHYSICAL PROPERTIES
CALCULATIONS OF DISPERSION CURVES AND SPECIFIC HEAT FOR LIF AND NACL USING THE BREATHING SHELL MODEL 67-11 M14-80616
LITHIUM COMPOUNDS, POWDER METALLURGY
ROLE OF POWDER METALLURGY IN THE FABRICATION OF VERY LARGE PARTS 67-01 M09-58683
LITHIUM COMPOUNDS, REACTIONS /CHEMICAL/
ELECTROCHEMICAL STUDIES IN MOLTEN LI2CO3-NA2CO3 67-07 M14-73454
REACTION RATE OF SOLID YTTRIUM METAL WITH MOLTEN LITHIUM FLUORIDE 67-10 M14-79688
LITHIUM COMPOUNDS, SINGLE CRYSTALS
INFLUENCE OF OH-IONS ON INFRARED ABSORPTION AND IONIC CONDUCTIVITY IN LITHIUM FLUORIDE CRYSTALS 67-11 M16-81670
LITHIUM COMPOUNDS, TERNARY SYSTEMS
MEASUREMENTS OF VAPOR PRESSURE FOR NAF3-ALF3 AND 67-07 M15-73878
LITHIUM CRYOLITE
SEE LITHIUM COMPOUNDS
LITHIUM FLUORIDE, CORROSION
CONCERNING THE POSSIBLE ROLE OF ADSORBED STEP-POISONS IN STRESS-CORROSION CRACKING 67-04 M18-66694
LIVE LOADS
SEE CYCLIC LOADS
LOAD DISTRIBUTION
SEE LOADS /FORCES/
LOADS /FORCES/
SEE ALSO CYCLIC LOADS
THE MEASUREMENT OF FORCE FOR THE DETERMINATION OF OPTIMUM CONDITIONS IN DEEP DRAWING 67-03 M08-65758
THE GRADATION OF DEFORMATION IN EXTRUDING CABLE SHEATHS AND ITS EFFECT ON EXTRUSION FORCES 67-06 M07-72126
LOCOMOTIVES
FIVE YEARS OF SUCCESSFUL RECONDITIONING OF WORN COMPONENTS AT THE LOCOMOTIVE WORKS AT SUMPERK 67-02 M11-61050
LOCOMOTIVES, MATERIALS
PROPERTIES OF LOW-ALLOY WELDING STEELS USED TO MANUFACTURE RAILWAY ROLLING STOCK 67-04 M17-67826
LOCOMOTIVES, WELDING
A CONTINUOUS PRODUCTION LINE FOR FITTING UP AND WELDING ELECTRIC LOCOMOTIVE FRAMES --FROM EXPERIENCE AT THE NOVOCHERKASSK ELECTRIC LOCOMOTIVE WORKS-- 67-02 M11-60192
SEMIAUTOMATIC WELDING OF LOCOMOTIVE FORGINGS USING A SELF-SHIELDING WIRE 67-04 M11-67813
SEMI-AUTOMATIC WELDING OF STRUCTURES FOR DIESEL LOCOMOTIVES WITH SELF SHIELDING ELECTRODES

67-06 M11-70313
WELDING IN THE MANUFACTURE OF ROLLING STOCK ON BRITISH RAILWAYS 67-10 M11-78795
WELDING BOGIE AND AXLE BOX SHOES OF LOCOMOTIVES IN 60G STEEL 67-11 M11-80560
LONG RANGE ORDER
SELF-DIFFUSION IN NEAR-EQUIATOMIC ORDERED AU-CD ALLOYS 67-05 M14-69819
HYPERFINE FIELDS AT SN119 IN DILUTE ALLOYS 67-08 M16-75828
VACANCY MODELS FOR CONCENTRATED BINARY ALLOYS. PT. 2 67-09 M13-77596
SUPPORTING EVIDENCE FOR LONG-RANGE DEFECT MIGRATION IN THE STAGE-1 RECOVERY OF COPPER 67-10 M16-79413
MECHANICAL PROPERTIES OF NI-CR-TI-AL ALLOY --NIMONIC TYPE-- SINGLE CRYSTALS IN VARIOUS ALLOY STRUCTURAL STATES 67-10 M17-79230
REMARKS ON THE STRUCTURE OF MARTENSITES IN CU-AL ALLOYS 67-11 M13-81269
DIRECT OBSERVATION OF THE STACKING ORDER IN BETA1 PRIME CU-AL MARTENSITE 67-11 M13-81270
ORDER-DISORDER PHENOMENA AND SOLID SOLUTIONS 67-11 M14-81110
ORDERING AND DISLOCATION PAIRS IN AN FE-6.0 WT PER CENT SI ALLOY 67-11 M14-81357
TEMPERATURE-DEPENDENT VARIATIONS OF THE EQUILIBRIUM ORDER PARAMETER OF THE HEXAGONAL LONG-RANGE ORDERED PHASE 1 IN THE CADMIUM-MAGNESIUM ALLOY OF STOICHIOMETRIC COMPOSITION, CDMG3 67-11 M14-81563
LONG RANGE ORDER, TEMPERATURE EFFECTS
X-RAY MEASUREMENT OF ORDER IN CUAU2 67-05 M14-69756
LONG-RANGE ORDER AND CRITICAL SCATTERING OF NEUTRONS BELOW THE TRANSITION TEMPERATURE IN BETA-BRASS 67-05 M14-69808
LOOPS /DISLOCATION/
SEE DISLOCATION LOOPS
LOOSE POWDER SINTERING
MICRO-ALLOYING BERYLLIUM FOR IMPROVING SINTERING CHARACTERISTICS AND MECHANICAL PROPERTIES 67-03 M09-65291
INFLUENCE OF PARTICLE SIZE ON SINTERING EFFICIENCY 67-04 M02-67426
LOST WAX INVESTMENT CASTING
SEE INVESTMENT CASTING
LOST WAX PROCESS
SEE INVESTMENT CASTING
LOW ALLOY STEELS
SEE ALSO BORON INTENSIFIED STEELS
COPPER STEELS
ELECTRICAL STEELS
LEADED STEELS
RESULFURIZED STEELS
SILICON MANGANESE STEELS
SILICON STEELS
NEW STEELS AND THEIR APPLICATIONS 67-06 M20-72010
ISO-CAST 9A --NICKEL-CHROMIUM-VANADIUM STEEL-- 67-07 M01-73159
LOW ALLOY STEELS, ALLOYING EFFECTS
RESIDUALS IN STEEL FOR FORGINGS 67-06 M19-71822
LOW ALLOY STEELS, BONDING
STRESSED SKIN STRUCTURES IN SANDWICH CONSTRUCTION 67-04 M09-66142
LOW ALLOY STEELS, BRAZING
BRAZING STRONG, RELIABLE JOINTS 67-05 M11-68773
LOW ALLOY STEELS, CASTING
THE CONTINUOUS CASTING OF SMALL CROSS SECTIONS 67-02 M04-59133
FUNDAMENTAL PROBLEMS AND THE PRACTICE OF THE CONTINUOUS CASTING OF WIDE SLABS 67-02 M04-59136
TRANSVERSE AND LONGITUDINAL CRACKS IN BASIC OPENHEARTH BLOOMS 67-02 M04-60828
IMPROVEMENT IN TECHNOLOGY FOR PRODUCING HOLLOW WATER-COOLED MANDRELS OF A PIERCING MILL 67-02 M07-61959
IMPROVING THE MANUFACTURE OF HOLLOW WATER-COOLED MANDRELS FOR THE SMALL AUTOMATIC PIERCING BENCH 67-04 M07-67780
INVESTIGATION OF BASIC POWER PARAMETERS OF A VERTICAL CONTINUOUS STEEL CASTING MACHINE PRODUCING FLAT INGOTS 67-05 M04-68548
GAS POROSITY IN STEEL CASTINGS 67-06 M06-72188
PRINCIPAL POWER PARAMETERS OF VERTICAL CONTINUOUS STEEL CASTING PLANT FOR PRODUCING FLAT BILLETS 67-07 M04-72459
MECHANISM OF THE FORMATION OF INTERNAL HOT CRACKS IN CONTINUOUS-CAST SQUARE STEEL BILLETS 67-07 M04-73004
INCREASING THE YIELD OF KILLED INGOT STEEL BY USING ISOTHERMAL HOT STOPS 67-08 M04-74351
IMPROVING INGOT SURFACES BY TREATING METAL WITH GRAPHITE IN THE INGOT MOULD 67-08 M04-75718
SELECTION FACTORS FOR STEEL INVESTMENT CASTINGS 67-08 M06-75491
THE BOOM IN FERROUS INVESTMENT CASTINGS 67-08 M06-75495
PRODUCTION OF SPEED RING CASTINGS 67-08 M06-76198
THE DESIGN OF FEEDER CONFIGURATION IN THE CASTING OF LOW-ALLOY CR-MO STEEL PLATES 67-12 M06-82938
LOW ALLOY STEELS, CHEMICAL ANALYSIS
DETERMINATION OF NIOBIUM IN MILD AND LOW-ALLOY STEELS 67-04 M19-67418
THE COMPOSITION OF NONMETALLIC INCLUSIONS IN ALUMINUM-ALLOYED STEELS 67-06 M13-70272
HOMOGENEITY CHARACTERIZATION OF NBS SPECTROMETRIC STANDARDS. PT. 2. CARTRIDGE BRASS AND LOW-ALLOY STEEL 67-06 M19-71433
LOW ALLOY STEELS, COATING
BUILD-UP RECLAMATION OF GUIDING ARCS IN DONBASS COAL COMBINES 67-02 M11-59522
NEW VANADIUM-CONTAINING OR COLUMBIUM-CONTAINING LOW-ALLOY STEELS FOR ENAMELLING 67-04 M12-66458
THE ADHERENCE OF ZINC COATS ON STEEL WIRE 67-08 M12-75074
FABRICATION OF PLATED STRUCTURAL MEMBERS-- COMPARISON OF ROLL PLATING AND SURFACING 67-08 M12-75788
PROGRESS, PROBLEMS AND POTENTIAL IN HOT DIP GALVANIZING 67-09 M12-77663
SELF-ADJUSTING CHROMIUM ELECTROLYTE WITH LOW CORROSION ACTIVITY 67-10 M18-78540
CHROMIZING TURNS PINK TO REDUCE WEAR 67-12 M12-82399
LOW ALLOY STEELS, CORROSION
WEATHER RESISTANT STEEL SHEETS 67-01 M18-58116
MICROPROCESSES IN STRESS CORROSION OF MARTENSITIC STEELS 67-01 M18-58512
STUDY ON LOW-TEMPERATURE CORROSION IN ACTUAL HEAVY OIL-FIRED BOILERS 67-01 M18-58696
HYDROGENATION OF STEEL DURING CATHODE POLARIZATION IN ALKALI SOLUTIONS 67-01 M18-58713
TWO CORROSION RESISTANT STEELS FROM JAPAN 67-02 M18-59466
CORROSION OF STEELS BY SEA WATER 67-02 M18-60043
SUSCEPTIBILITY TO SULFIDE CORROSION CRACKING IN VARIOUS KINDS OF HIGH-STRENGTH STEEL. STUDIES ON SULFIDE CORROSION CRACKING OF WELDABLE HIGH-STRENGTH STRUCTURAL STEEL. PT. 1 67-02 M18-60268
EMBRITTLEMENT OF WELDABLE HIGH-STRENGTH STRUCTURAL STEELS BY SULFIDE CORROSION. PT. 2 67-02 M18-60269
ANODIC POLARIZATION BEHAVIOR OF LOW ALLOY STEELS IN SULFURIC ACID SOLUTIONS 67-03 M18-65757
A NEW METHOD FOR THE DETERMINATION OF CORROSION RESISTANCE OF STEEL 67-03 M18-65832
CORROSION OF MILD STEEL BY ACTIVELY GROWING CULTURES OF SULFATE-REDUCING BACTERIA. THE INFLUENCE OF FERROUS IRON 67-03 M18-65995
EFFECT OF EXPOSURE TIME ON CAVITATION DAMAGE 67-04 M18-66232
STRESS-CORROSION SUSCEPTIBILITY OF HIGH-STRENGTH STEEL, IN RELATION TO FRACTURE TOUGHNESS 67-04 M18-66236
CORROSION OF HIGH STRENGTH STEELS IN CARBON DIOXIDE FOR GAS COOLED POWER REACTORS 67-04 M18-67593
FRETTING CORROSION OF METALS 67-05 M18-69147
CORROSION RESISTANCE OF SOME METALS IN MOLTEN ALUMINUM 67-05 M18-69836
THE EFFECT OF MOISTURE ON SLOW CRACK GROWTH IN THIN SHEETS OF SAE 4340 STEEL UNDER STATIC AND REPEATED LOADING 67-06 M17-71630
STABILIZED STEELS RESISTANT TO CORROSION CRACKING 67-06 M18-70203
CORROSION IN CENTRIFUGAL AIR COMPRESSORS 67-06 M18-70545
HYDROGEN-STRESS RELATIONSHIPS 67-06 M18-72335

LOW ALLOY STEELS

PRACTICAL CORROSION PROBLEMS IN RELATION TO WELDED JOINTS. PT. 1. SPECIAL CHARACTERISTICS OF THE WELDING PROCESS WHICH CAN CAUSE CORROSION PROBLEMS 67-08 M18-74701
CORROSIVE ACTIVITY OF AQUEOUS SOLUTIONS OF H2SO4 67-09 M18-76432
CORROSION OF MILD STEEL IN SEAWATER 67-09 M18-77229
STABILITY OF THE OXIDE FILM ON METALS IN RELATION TO INHIBITION OF CORROSION. PT. 1. MILD STEEL IN PRESENCE OF AGGRESSIVE ANIONS 67-09 M18-77485
CRITERIA OF SOIL AGGRESSIVENESS TOWARDS BURIED METALS. PT. 3. VERIFICATION OF PREDICTED BEHAVIOR OF SELECTED SOILS 67-09 M18-77488
PRINCIPAL METHODS OF PROTECTING STEEL FROM HYDROGEN CORROSION 67-11 M18-80593
ATMOSPHERIC CORROSION OF CARBON AND LOW ALLOY CAST STEELS 67-11 M18-81517
MAIN REASONS FOR FLAKING IN STEELS AND THE SIGNIFICANCE OF ACID OPENHEARTH STEEL 67-12 M18-81784
CORROSION RESISTANCE OF CERTAIN METALLIC MATERIALS IN MOLTEN ALUMINUM 67-12 M18-82269
FIELD CORROSION TESTS FOR COMPARISON OF CORROSIVITY IN JAPAN AND CHINA 67-12 M18-82894
AN INCUBATION TIME FOR THE INITIATION OF STRESS-CORROSION CRACKING IN PRECRACKED 4340 STEEL 67-12 M18-83071

LOW ALLOY STEELS, CRYOGENIC PROPERTIES
IMPROVING THE COLD SHORTNESS OF STEEL CASTINGS 67-04 M17-67509

LOW ALLOY STEELS, CRYSTAL LATTICES
PHASE AND STRUCTURAL RECRYSTALLIZATION OF 15KH1M1F STEEL DURING HEATING 67-04 M14-66622
BLOCK STRUCTURE OF MARTENSITE CRYSTAL FRAGMENTS IN STRUCTURAL STEELS 67-12 M13-81836
ON THE CRYSTAL STRUCTURE OF ALPHA- AND KAPPA PRIME-MARTENSITE OF HIGH-CARBON STEEL 67-12 M13-82335

LOW ALLOY STEELS, DIFFUSION
SELF-DIFFUSION OF NI IN AUSTENITE OF NICKEL STEELS 67-02 M14-59117
DISTRIBUTION OF CARBON AND ALLOYING ELEMENTS BETWEEN SOLID SOLUTION AND CARBIDES IN STEEL 67-11 M14-81156

LOW ALLOY STEELS, EXTRUSION
BASIC OPENHEARTH STEEL OF IMPROVED MECHANICAL PROPERTIES FOR EXTRUSION OF DYNAMICALLY LOADED AUTOMOBILE PARTS 67-04 M17-67438
COLD EXTRUSION OF BILLETS FOR WRIST PINS 67-06 M07-70473

LOW ALLOY STEELS, FABRICATION
ADVANTAGES AND ECONOMICS OF QUENCHED AND TEMPERED WELDABLE HIGH-STRENGTH STEEL 67-06 M08-71327

LOW ALLOY STEELS, FATIGUE /MATERIALS/
INFLUENCE OF FERRITE ON THE FATIGUE RESISTANCE OF 40KH STEEL 67-05 M17-68371

LOW ALLOY STEELS, FORGING
FORGING METALLURGY--STEEL. PT. 1 67-02 M07-59034
EFFECTS OF STRETCHING AND UPSETTING ON THE MECHANICAL PROPERTIES OF OPEN-DIE FORGINGS 67-02 M07-62098
COLD FORGING. LESS MACHINING, LOWER COSTS 67-05 M07-69315
INFLUENCE OF FORGING TECHNOLOGY ON QUALITY OF REDUCTOR GEARS 67-09 M07-76408
AN EXPERIMENT IN PRODUCING CYLINDRICAL GEAR FORGINGS WITH FINISHED TEETH ON HIGH-SPEED EQUIPMENT 67-12 M08-82062

LOW ALLOY STEELS, FORGINGS
NEW SPANISH STEELS IN FORGINGS FOR THE AUTOMOTIVE INDUSTRY 67-04 M07-67427

LOW ALLOY STEELS, FORMING
EXPLOSIVE HOT FORMING OF STEELS AND REFRACTORY METALS 67-05 M08-69742

LOW ALLOY STEELS, GRAIN GROWTH
EFFECTS OF ALUMINIUM NITRIDE ON THE PROPERTIES OF STEEL 67-08 M14-74736
EFFECTS OF ALUMINIUM NITRIDE ON THE PROPERTIES OF STEEL 67-09 M14-77379

LOW ALLOY STEELS, HARD SURFACING
INCREASING THE LIFE OF PARTS BY MULTIELECTRODE DEPOSIT WELDING 67-07 M11-72741

LOW ALLOY STEELS, HEAT TREATMENT
BETHLEHEM INSTALLS NEW PLATE QUENCH AND TEMPER FACILITY 67-01 M10-58495
LIQUID NITRIDING OF 10 AND 40H STEEL 67-01 M17-57143
EFFECT OF CARBONITRIDING ON PROPERTIES OF LOW-ALLOY STEELS 67-01 M17-58036
SURFACE ATTACK IN CR-FE ALLOYS 67-02 M10-59017
QUENCHING WITHOUT SCALE FORMATION 67-02 M10-59086
ON THE CONCENTRATING PROCESS OF THE ALLOYING ELEMENT INTO CEMENTITE DURING THE TEMPERING OF STEEL 67-02 M10-59123
HIGH-TEMPERATURE CARBURIZATION IN SALT AND GAS 67-02 M10-60501
ON THE THERMOMECHANICAL TREATMENT OF STEEL 67-02 M10-60620
QUENCH HEATING OF STRUCTURAL STEELS IN MOLTEN NACL AND KCL SALTS 67-02 M10-60851
THE PROPERTIES OF LOW-CARBON MARTENSITE. INTRODUCTION 67-02 M17-61695
PROPERTIES OF LOW-CARBON MARTENSITE. DISCUSSION OF RESULTS 67-02 M17-61698
HIGH-TEMPERATURE THERMOMECHANICAL PROCESSING OF DRILLING PIPES MADE FROM 38KHNM ALLOYED STEEL 67-02 M17-62153
INFLUENCE OF AUSTENITIZING TEMPERATURE ON STABILITY OF SUPERCOOLED AUSTENITE IN REINFORCING STEELS 67-04 M10-66365
BORIDING IN A POWDER MIXTURE 67-04 M10-66459
ON THE INTERMEDIATE ANNEALING DURING COLD FORMING PROCESS OF STEEL 67-04 M10-66893
FINAL REPORT ON STRESS RELIEVING OF CARBON STEEL AND CHROME-MOLYBDENUM WELDS 67-04 M10-67469
AUSROLLING RAIL STEEL 67-04 M10-67617
PHYSICAL AND CHEMICAL ANALYSES OF PROCESSES OF AGING AND GROWTH OF AUSTENITE GRAINS IN CAST STEEL 67-04 M14-66959
METALLOGRAPHY AND STRENGTHENING MECHANISMS OF 0.3 PER CENT C AND 0.3 PER CENT C-1.5 PER CENT CU STEELS. PT. 1. METALLOGRAPHY OF A 0.3 PER CENT C AND A 0.3 PER CENT C-1.5 PER CENT CU STEEL IN THE TEMPERED CONDITION 67-04 M14-66990
PRECIPITATION OF CARBIDES IN ALLOY STEELS 67-04 M14-67546
HIGH TEMPERATURE THERMAL-MECHANICAL TREATMENT OF DRILL TUBES MADE FROM 38KHNM ALLOY STEEL 67-04 M17-68195
IMPROVING THE STRENGTH OF STRUCTURAL STEEL BY HEAT TREATMENT 67-05 M10-68331
A SECTIONAL FURNACE FOR HEAT TREATING TUBES 67-05 M10-68559
HEAT TREATMENT OF INVESTMENT-CAST STAINLESS STEELS AND HIGH TEMPERATURE ALLOYS 67-05 M10-69889
COMPARATIVE EFFICIENCY OF SOME AUSFORMING METHODS 67-06 M10-70067
PRELIMINARY STRENGTHENING OF TUBES 67-06 M10-70068
FUEL CONSUMPTION DURING NONSCALE HEATING OF STEELS 67-06 M10-70478
QUENCHING STEEL PLATE ON THE FLY 67-06 M10-70728
DROP FORGERS INSTALL NEW HEAT-TREATMENT PLANT 67-06 M10-71824
QUENCHED AND TEMPERED STEEL PLATES AND PROCESSING EQUIPMENT 67-06 M10-71945
APPLICATION OF HIGH-TEMPERATURE ANNEALING 67-06 M11-71845
EFFECT OF SMALL ADDITIONS OF CHROMIUM AND MOLYBDENUM ON THE BEHAVIOR OF CARBON AND NITROGEN IN CARBONITRIDED CASES ON STEEL 67-06 M11-72299
INTERRELATION OF ISOTHERMAL AND CONTINUOUS-COOLING HEAT TREATMENTS OF LOW-ALLOY STEELS AND THEIR PRACTICAL SIGNIFICANCE 67-06 M14-71934
EFFECT OF MARTENSITE ON THE KINETICS OF BAINITE FORMATION IN LOW ALLOY STEELS 67-06 M14-72151
COMMENTS ON AN INVESTIGATION OF SECONDARY HARDENING OF A 1 PER CENT VANADIUM-0.2 PER CENT CARBON STEEL 67-06 M14-72238
QUENCHED AND TEMPERED PLATE STEELS 67-06 M17-71328
A MULTI-STAGE FURNACE FOR HEAT TREATMENT OF TUBES 67-07 M10-72470
HIGH TEMPERATURE GAS CARBURIZING BY INDUCTION HEATING 67-07 M10-72534
INCREASING TENSILE STRENGTH OF STRUCTURAL STEEL BY MEANS OF HEAT TREATMENT 67-07 M10-72859
TENIFER PROCESS OF SALT BATH NITRIDING 67-07 M10-72906
BATH CONTROL KEY IN NITRIDING GEARS 67-07 M10-72993

SCALE-FREE HEATING IN A PROTECTIVE MEDIUM OF GLASS
67-07 M10-73619
INTENSIFYING THE HEAT TREATMENT OF LOW-ALLOY LOW-CARBON SHEET STEEL 67-07 M10-73791
THE EFFECTIVENESS OF THERMALLY STRENGTHENING SHEET STEEL 67-08 M10-74595
SURFACE QUENCHING AFTER BULK INDUCTION HEATING--A PROMISING METHOD OF HEAT TREATING STEEL 67-08 M10-74971
INCREASE OF THE STRENGTH OF TRACTOR GEARS BY CASE HARDENING AND NITROCEMENTATION 67-08 M10-74972
QUENCHING OF SMALL FORGINGS OF STRUCTURAL STEELS FROM THE FORGING TEMPERATURE 67-08 M10-74979
INFLUENCE OF ALLOYED ELEMENTS ON ELECTROLYTIC BORIDING OF MEDIUM-CARBON STEEL 67-08 M10-76022
HEATING OF STRUCTURAL STEELS TO QUENCHING TEMPERATURE IN MOLTEN NACL AND KCL 67-08 M10-76109
ACCELERATION OF TEMPERING OF 36G2S AND 38KHNM STEEL PIPES BY INDUCTION HEATING 67-08 M10-76113
THE EFFECT OF TIME AND TEMPERATURE ON THE QUALITY AND DEPTH OF CASE, PRODUCED BY PACK CARBURIZING A LOW ALLOY STEEL, EN. 354 67-08 M10-76200
INTENSIFYING HEAT-TREATMENT CONDITIONS FOR LOW-ALLOY MILD STEELPLATE 67-09 M10-76554
COMPARATIVE EFFECTIVENESS OF CERTAIN METHODS OF THERMOMECHANICAL HARDENING OF STEELS 67-10 M08-78813
PRELIMINARY THERMOMECHANICAL TREATMENT OF PIPES 67-10 M10-78814
THE HEAT TREATMENT OF STEEL PLATES 67-10 M10-79303
APPLICATION OF AN EQUIVALENCE BETWEEN TIME AND TEMPERATURE TO THE STUDY OF CARBURIZING AND DECARBURIZING 67-11 M10-80145
DISPENSING WITH HIGH TEMPERATURE TEMPERING 67-11 M10-80377
EFFECT OF THE AUSTENITIZATION TEMPERATURE ON THE STABILITY OF SUPERCOOLED AUSTENITE IN REINFORCING STEELS 67-11 M10-50967
BORONIZING WITH POWDERED MIXTURES 67-11 M10-81000
PRACTICAL EXPERIENCES OF GASEOUS CEMENTATION BY GRANULES 67-12 M10-82142
PATENTING WIRE IN A FLUIDISED BED 67-12 M10-82152
RELATING THE FURNACE ATMOSPHERE TO THE JOB. PT. 2 67-12 M10-82882
ALLOYING OF STEELS FOR PETROLEUM INDUSTRY TUBING 67-12 M10-83536
INFLUENCE OF THERMOMECHANICAL TREATMENT ON STRUCTURE OF THE CHROMANSIL-TYPE STEELS 67-12 M14-83543

LOW ALLOY STEELS, HEATING
HIGH-TEMPERATURE ELECTROTHERMOMECHANICAL TREATMENT OF SPRING STEEL 67-02 M10-62231
EFFECT OF THERMOPHYSICAL PROPERTIES OF STEEL ON HEATING TECHNOLOGY 67-06 M10-70299

LOW ALLOY STEELS, IMPACT TESTS
TECHNICAL NOTE.. AN EVALUATION OF COOLING RATES IN CHARPY IMPACT SPECIMENS 67-06 M10-71685

LOW ALLOY STEELS, IMPURITIES
NONMETALLIC INCLUSIONS IN ALUMINUM-ALLOYED STEELS 67-04 M13-67609

LOW ALLOY STEELS, INGOTS
IMPROVING THE QUALITY OF INGOT SURFACES BY TREATING THE METAL IN MOLDS WITH GRAPHITE 67-06 M04-71249

LOW ALLOY STEELS, INOCULATION
NONMETALLIC INCLUSIONS IN RAIL STEEL INOCULATED WITH TITANIUM 67-10 M13-80035

LOW ALLOY STEELS, MACHINING
IMPROVED REAMER REDUCES MACHINING TIME 67-03 M08-65482
SIZING FORGINGS WITH ECM 67-06 M08-71932
ANALYSIS OF CHIP FORMATION CHARACTERISTICS OF 18 PER CENT NICKEL MARAGING STEEL 67-12 M08-82775
A SIZE OF CUT CONSTANT FOR MACHINABILITY EQUATIONS 67-12 M08-82950

LOW ALLOY STEELS, MECHANICAL PROPERTIES
THE EFFECT OF SLIDING SPEED ON THE RATE OF WEAR OF SAPPHIRE ON STEEL 67-01 M17-57207
ON THE FATIGUE STRENGTH OF INDUCTION HARDENED LARGE-SIZE PRESS-FITTED SPECIMEN 67-01 M17-57587
MANUFACTURE OF OIL REFINING EQUIPMENT OF QUENCHED AND TEMPERED LOW-ALLOY STEEL 67-01 M17-57604
DETERMINATION OF THE VALUE OF IMPACT STRENGTH OF STEEL 67-01 M17-57658
PROPERTIES OF STEEL PLATES --SUMITEN 60-- HAVING TENSILE STRENGTH OF 60 KG/MM2 67-01 M17-58248
THE ATMOSPHERIC-CORROSION-RESISTANT STEEL, SUMITOMO CR2-50 67-01 M17-58249
STEEL PLATE FOR BOILERS 67-01 M17-58250
METALLURGICAL ADVANTAGES AND ADVANCES IN HEAT TREATED STEELS, WITH PARTICULAR REFERENCE TO THE WELDABLE CONSTRUCTIONAL STEELS. PT. 3 67-01 M17-58449
STEPPING UP THE FIGHT AGAINST FRACTURE AND FATIGUE 67-01 M17-58485
DEVELOPMENT OF IMPROVED HIGH STRENGTH STEEL CASTING ALLOYS USING MATHEMATICAL MODELS 67-01 M17-58[illegible]
EFFECT OF DEFORMATION RATE AND TEMPERATURE ON MECHANICAL PROPERTIES OF SELECTED HIGH STRENGTH ALLOYS 67-01 M17-58692
EFFECT OF HEAT TREATMENT ON DUCTILITY OF FERRITIC-PEARLITIC STEELS 67-02 M17-58947
SPECIFICATIONS FOR CARBON AND LOW-ALLOY STRUCTURAL STEELS WITH GUARANTEED WELDABILITY 67-02 M17-58989
PROPERTIES OF CONTINUOUSLY CAST PRODUCTS 67-02 M17-59138
THE EFFECT OF BOUNDARY OXIDATION ON THE FORMATION OF THE SURFACE ZONE AND THE FATIGUE STRENGTH OF CASE-HARDENED SPECIMENS 67-02 M17-59531
SELECTION OF STEEL FOR THE MANUFACTURE OF MINE SUPPORT ARCHES IN THE AS-RECEIVED CONDITION AND HEAT TREATED 67-02 M17-59558
LABORATORY INVESTIGATION OF THE WEAR RESISTANCE OF WHEEL STEEL OF DIFFERENT CHEMICAL COMPOSITIONS AND HARDNESSES 67-02 M17-59581
BRITTLE FRACTURE OF STEELS WITH AN INCREASED YIELD STRENGTH 67-02 M17-59588
MECHANICAL AND ELECTRON-MICROSCOPE INVESTIGATION OF TEMPERING PROCESSES IN V-CONTAINING AND V-FREE HARDENABLE STRUCTURAL STEELS 67-02 M17-59624
RELATION BETWEEN SUBSURFACE HARDNESS AND MECHANICAL BEHAVIOR IN WELDED ASSEMBLIES OF 52 STEEL 67-02 M17-59757
BUILDING CONSTRUCTION AND HIGH-STRENGTH STEEL 67-02 M17-59962
THE USE OF IMPACT TORSION TESTING IN THE TESTING OF SURFACE-TREATED MATERIALS 67-02 M17-60024
INVESTIGATION OF HOT TEARING AND MECHANISM OF CRACK FORMATION IN CAST STEEL. PRACTICAL CRACK SENSITIVITY TEST PIECE 67-02 M17-60221
ULTRAHIGH-STRENGTH STEELS 67-02 M17-60621
HOW LOW CYCLE FATIGUE EMBRITTLES PRESSURE VESSEL STEELS 67-02 M17-60694
EFFECT OF SOME METALLURGICAL FACTORS ON THE MECHANICAL PROPERTIES OF FORGED STEEL 67-02 M17-60791
INVESTIGATION OF CASE HARDENING OF GEARS 67-02 M17-60843
THE NOTCH TOUGHNESS OF MILD STEEL AND LOW ALLOY WELD METALS 67-02 M17-60909
EFFECT OF INTERMEDIATE STRUCTURES ON THE PROPERTIES OF STRUCTURAL STEEL 67-02 M17-61223
PREVENTION OF BRITTLE FRACTURES IN WELDED STRUCTURES 67-02 M17-61650
THE INHERENCE OF THE PROPERTIES OF THERMOMECHANICALLY TREATED STEEL 67-02 M17-61931
STRUCTURE AND PROPERTIES OF STRUCTURAL STEEL MADE BY VARIOUS METHODS 67-02 M17-61951
INFLUENCE OF NICKEL ON MECHANICAL PROPERTIES AND CRYOGENIC PROPERTIES OF LOW-CARBON STEEL 67-02 M17-61976
INFLUENCE OF DEHYDROGENATING ANNEALING ON THE PROPERTIES OF 40KH AND 34KHN3M STEELS 67-02 M17-61987
STRUCTURE AND PROPERTIES OF COBALT-ALLOYED PATENTED WIRE 67-02 M17-62270
A STATISTICAL STUDY OF THE MECHANISMS OF CHANGES IN FATIGUE CHARACTERISTICS 67-02 M17-62282
DESIGN AND CONSTRUCTION OF PRESSURE VESSELS UTILIZING HIGH-STRENGTH STEEL 67-02 M20-59964
STEEL GROWS WITH THE TRANSPORTATION INDUSTRY 67-03 M01-65623
INFLUENCE OF WELDING CONDITIONS ON THE STRESS CONCENTRATION SENSITIVITY OF 15KHSND WELDED JOINTS 67-03 M17-65045

THE PROBLEM OF THE CREEP OF METALS. PT. 18. MORE INFORMATION ON HIGH TEMPERATURE TENSILE PROPERTIES 67-03 M17-65169
THE EFFECT OF ALLOYING ELEMENTS ON THE PROPERTIES OF THE WELDABLE HIGH STRENGTH STEEL. PT. 1. THE EFFECT OF ALLOYING ELEMENTS ON THE MECHANICAL PROPERTIES OF NORMALIZED HIGH STRENGTH STEEL. PT. 2. THE EFFECT OF ALLOYING ELEMENTS ON THE HARDENABILITY, MECHANICAL PROPERTIES AND WELDABILITY OF QUENCHED AND TEMPERED HIGH STRENGTH STEEL 67-03 M17-65821
HARDENABLE LOW-CARBON STEEL. U. S. STEELS Q-TEMP 67-04 M01-66293
HEAT TREATMENT OF LOW-CARBON AND LOW-ALLOYED STEELS 67-04 M10-67955
INVESTIGATION OF THE EFFECT OF ALTERNATING ELECTRICAL HEAT TREATMENT ON THE MECHANICAL PROPERTIES OF 40KHN STEEL 67-04 M17-66091
EQUIBIAXIAL LOW-CYCLE FATIGUE PROPERTIES OF TYPICAL PRESSURE-VESSEL STEELS 67-04 M17-66233
CREEP-RUPTURE PROPERTIES OF CENTRIFUGALLY CAST 1 1/4CR-1/2MO ALLOY STEEL PIPE 67-04 M17-66234
LONG-TERM RUPTURE STRENGTH OF ALLOYS AND PLASTICS FROM TENSILE STRENGTH AT ELEVATED TEMPERATURES 67-04 M17-66235
FRACTURE TOUGHNESS DETERMINATIONS OF A-302B AND NI-MO-V STEELS WITH VARIOUS SIZE SPECIMENS 67-04 M17-66237
LOW CYCLE FATIGUE CRACK PROPAGATION CHARACTERISTICS OF HIGH STRENGTH STEELS 67-04 M17-66238
SUPPLEMENTAL REPORT ON THE ELEVATED-TEMPERATURE PROPERTIES OF CHROMIUM-MOLYBDENUM STEELS 67-04 M17-66289
INFLUENCE OF THE LIQUID SLAG REFINING ON TOUGHNESS OF LOW ALLOY STRUCTURAL STEEL 67-04 M17-66360
INFLUENCE OF INOCULANTS ON COLD SHORTNESS OF LOW ALLOY STEELS 67-04 M17-66362
ALTERNATE LOADING RESISTANCE OF HIGH-STRENGTH STRUCTURAL STEEL 67-04 M17-66430
FATIGUE STRENGTH OF LOW-ALLOY STEEL WELDED JOINTS 67-04 M17-66565
STRENGTH OF WELDED JOINTS IN STRUCTURES MADE OF HIGH-STRENGTH STEEL 67-04 M17-66567
THE BASIC VARIETIES OF FAILURE IN MACHINE GEARS 67-04 M17-66631
NEW HIGH-STRENGTH STEELS AND THEIR USE IN THE MINING ENGINEERING INDUSTRY 67-04 M17-66857
VARIATION OF THE EXTERNAL FORM OF CEMENTITE AND MECHANICAL PROPERTIES DURING STRAIN AGING OF SPRING STEELS 67-04 M17-66877
ANALYSIS OF PLANE-STRAIN FRACTURE IN A SERIES OF 0.45C-NI-CR-MO STEELS WITH DIFFERENT SULFUR CONTENTS 67-04 M17-66942
EFFECT OF INDUSTRIAL MELTING TECHNOLOGY ON MECHANICAL PROPERTIES OF ELECTROSLAG WELDED STEEL 67-04 M17-67007
RESISTANCE TO DEFORMATION OF COLD EXTRUDING STEELS 67-04 M17-67248
APPLICATION OF FRACTURE MECHANICS TO AN ALLOY STEEL USED IN TURBO-GENERATOR LOW-PRESSURE DISKS 67-04 M17-67417
NATURAL AND ARTIFICIAL AGING OF CSN 10602 STEEL 67-04 M17-67435
CREEP RUPTURE PROPERTIES OF LARGE WELDED SPECIMENS 67-04 M17-67587
CREEP AND RUPTURE DATA FOR DOMESTIC MATERIALS 67-04 M17-67597
CREEP-RUPTURE PROPERTIES OF SOME FERRITIC AND AUSTENITIC STEELS 67-04 M17-67598
STRUCTURE AND PROPERTIES OF CONSTRUCTIONAL STEEL MELTED BY VARIOUS METHODS 67-04 M17-67782
STUDY OF TEMPER BRITTLENESS BY A METHOD USING AMPLITUDE-DEPENDENT INTERNAL FRICTION 67-04 M17-67820
PROPERTIES OF LOW-ALLOY WELDING STEELS USED TO MANUFACTURE RAILWAY ROLLING STOCK 67-04 M17-67826
FRACTURE PROPERTIES OF HARDENED AND TEMPERED STEELS 67-04 M17-67853
STRENGTHENING LOW-ALLOY STEEL WITH VANADIUM NITRIDES 67-04 M17-67929
RAISING THE QUALITY OF CAST STEEL 67-04 M17-67944
LOW-ALLOYED HEAT-RESISTANT STEEL POWER PLANTS 67-04 M17-67952
EFFECT OF THE CARBON AND MANGANESE CONCENTRATIONS ON THE PROPERTIES OF LOW-ALLOYED STEEL CONTAINING SMALL AMOUNTS OF NIOBIUM 67-04 M17-67958
EFFECT OF THE ADDITION OF SMALL AMOUNTS OF TITANIUM ON THE PROPERTIES AND STRUCTURE OF LOW-CARBON AND LOW-ALLOYED STEELS 67-04 M17-67968
FATIGUE RESISTANCE OF LOW-ALLOYED STRUCTURAL STEELS 67-04 M17-67971
STEEL WITH LOW HARDENABILITY FOR TRACTOR PARTS 67-04 M20-67957
STRUCTURE, PHASE COMPOSITION, AND MECHANICAL PROPERTIES OF 12KH2MFSR STEEL 67-05 M17-68366
INFLUENCE OF ALLOYED ELEMENTS ON THE MECHANICAL PROPERTIES OF QUENCHED STEEL SUBJECTED TO COLD DEFORMATION 67-05 M17-68377
THE DEPENDENCE OF THE ANISOTROPY OF PROPERTIES IN ZIRCONIUM STEELS ON HEAT TREATMENT 67-05 M17-68449
THE RESIDUAL STRESS BEHAVIOR IN FATIGUE PROCESS OF HIGH TENSILE STRENGTH STEELS. PT. 1 67-05 M17-68530
VARIATION OF RESIDUAL STRESS IN THE FATIGUE PROCESS OF INDUCTION HARDENED STEEL 67-05 M17-68531
MARAGING STEEL AND LOW-ALLOY STEELS OF VERY HIGH STRENGTH 67-05 M17-68781
INFLUENCE OF VACUUM POURING ON SOME PHYSICAL AND MECHANICAL PROPERTIES OF STRUCTURAL STEEL 67-05 M17-69009
INFLUENCE OF DIAMOND GRINDING ON PHYSICAL AND MECHANICAL PROPERTIES OF T15K6 CERMET AND 40KH STEEL 67-05 M17-69013
STUDY OF THE DEVELOPMENT OF FATIGUE CRACKS IN STEELS SUBJECTED TO TEMPER EMBRITTLEMENT 67-05 M17-69047
THE PRODUCTION OF CITY GAS BY THE OXIDIZING CATALYTIC CRACKING OF PETROLEUM HYDROCARBONS 67-05 M17-69353
THE PROBLEM OF THE CREEP OF METALS. PT. 19. MORE INFORMATION ON HIGH TEMPERATURE RUPTURE STRENGTH PROPERTIES 67-05 M17-69429
TOUGHNESS OF HIGH-STRENGTH, HOT ROLLED STEELS 67-05 M17-69445
THE EFFECT OF THE FREQUENCY OF IMPACT ON THE FATIGUE LIFE OF STEEL 67-05 M17-69616
EFFECT OF AUSFORMING ON THE PROPERTIES OF MACHINE STEEL 67-05 M17-69666
AISI 5160 --HIGH STRENGTH MACHINERY STEEL-- 67-06 M01-71452
PROPERTIES OF CARBON RAIL STEEL AND 40KHN STEEL AFTER QUENCHING WITH TEMPER AND AFTER ISOTHERMAL TREATMENT 67-06 M17-69976
THE FEASIBILITY OF LOWERING THE FLAKING SUSCEPTIBILITY OF STEEL BY ADDING SMALL AMOUNTS OF PALLADIUM 67-06 M17-69977
INFLUENCE OF AUSROLLING ON MECHANICAL PROPERTIES OF LOW-CARBON AND LOW-ALLOY STEELS 67-06 M17-70063
THE QUALITY OF GRADE 15GF LOW-ALLOY STEEL REINFORCEMENT ROD 67-06 M17-70098
RAIL QUALITY IMPROVED BY MEANS OF VANADIUM 67-06 M17-70100
EFFECT OF RARE EARTH METALS ON THE PROPERTIES OF STEEL IN LIQUID AND SOLID STATES 67-06 M17-70276
LOW ALLOY CASE HARDENABLE STEELS WITH A CORE OF HIGH STRENGTH AND DUCTILITY 67-06 M17-70354
THE STRAIN-RATE SENSITIVITY OF THE YIELD STRESS OF STEELS 67-06 M17-70627
THE RELATION BETWEEN YIELD AND FATIGUE FRACTURE OF MILD STEEL 67-06 M17-70628
RAPID METHOD OF ESTIMATING ROTATING BENDING FATIGUE LIMITS BY CAPACITANCE THERMOMETER FOR ROTATOR 67-06 M17-70818
HEAT AND MECHANICAL TREATMENT OF AIR-HARDENING STEEL BARS 67-06 M17-71104
35KHGF AND 30KH3MF STEELS AS SUBSTITUTES FOR CHROMIUM-NICKEL STEELS 67-06 M17-71121
EFFECT OF IRRADIATION ON THE HIGH-STRAIN FATIGUE BEHAVIOUR OF A LOW-CARBON AND A LOW-ALLOY STEEL 67-06 M17-71334
EFFECT OF PRELIMINARY HYDROGEN ABSORPTION AND CORROSION ON THE LOW-CYCLE FATIGUE OF STEEL 67-06 M17-71364
EFFECT OF STRESS CONDITIONS ON FATIGUE STRENGTH AND DURABILITY OF STEEL 67-06 M17-71366
FATIGUE CRACK PROPAGATION IN LOW-ALLOY HEAT-

TREATED STEELS 67-06 M17-71629
EFFECT OF VARIATION IN POISSONS RATIO ON PLASTIC TENSILE INSTABILITY 67-06 M17-71631
STUDY OF THE EFFECT OF GRAIN SIZE OF STEEL ON THE TRANSITION TEMPERATURE OF THE NOTCH TOUGHNESS 67-06 M17-71750
EFFECT OF PRESTRAINING ON IMPACT STRENGTH OF 30KHGSA STEEL 67-06 M17-72352
THE ENDURANCE OF WELDED JOINTS IN LOW ALLOY STEELS 67-07 M13-73422
EFFECT OF LONG-TIME ANNEALING TREATMENTS IN THE TEMPERATURE RANGE OF 550 TO 700 C. C. ON THE FORMATION OF STRUCTURE AND ON THE LONG-TIME BEHAVIOR OF A STEEL WITH 0.15 PER CENT C AND 0.5 PER CENT MO 67-07 M17-72479
EFFECT OF CONTINUOUS CASTING CONDITIONS ON THE PROPERTIES OF 1 PER CENT C, 1.5 PER CENT CR BEARING STEEL. PT. 3. STUDY OF CONTINUOUS CASTING OF STEEL 67-07 M17-72554
CAPACITY OF HIGH TENSILE STRUCTURAL STEEL FOR RESISTING ALTERNATING LOADS 67-07 M17-72689
ON THE TESTING OF STEEL IN BIAXIAL TENSION AT ROOM TEMPERATURE AND LOWER TEMPERATURES 67-07 M17-72789
INVESTIGATION OF THERMOMECHANICALLY HARDENED STEEL WORKING IN TENSION BY MEANS OF HIGH-SPEED FILMING 67-07 M17-72790
AN INSTALLATION FOR DETERMINING THE PLASTICITY OF METALS BY TORSION AT HIGH TEMPERATURES 67-07 M17-72871
CREEP STRENGTH OF 40KH STEEL AT COMPLEX STRESS STATE IN PB-SN EUTECTIC 67-07 M17-73165
THE MECHANICAL PROPERTIES OF CARBONITRIDED [illegible] STEELS. PT. 1. BENDING STRENGTH AND TOUGHNESS OF CARBONITRIDED STEELS WITH HIGH CORE STRENGTHS 67-07 M17-73186
THE USE OF MATERIALS PROPERTIES BY THE REACTOR VESSEL DESIGNER 67-07 M17-73397
THE EFFECTIVENESS OF WELDED JOINTS IN METAL STRUCTURES MADE OF HIGH TENSILE STEEL 67-07 M17-73424
THE FATIGUE STRENGTH OF BUTT-WELDED JOINTS IN LOW-ALLOY STRUCTURAL STEELS 67-07 M17-73886
THE EFFECT OF WELDING CONDITIONS ON THE SENSITIVITY TO STRESS RAISERS OF JOINTS IN 15KHSND STEEL 67-07 M17-73965
INCUT 4140 --FREE-CUTTING ALLOY STEEL-- 67-08 M01-75683
AISI 8720. CARBURIZING ALLOY STEEL 67-08 M01-75690
COPPER AS AN ALLOY IN STEEL AND CAST IRON 67-08 M17-74453
INFLUENCE OF THE STEEL-MAKING TECHNIQUE ON THE MECHANICAL PROPERTIES OF ELECTROSLAG WELDED STEEL 67-08 M17-74766
INCREASE OF THE WORKING LIFE OF TRACTOR PARTS 67-08 M17-74969
INTERDEPENDENCE BETWEEN THE FLAKE-FORMING SUSCEPTIBILITY OF STEEL, HYDROGEN CONTENT AND HEAT TREATING CONDITIONS 67-08 M17-75285
ENGINEERING APPLICATIONS OF BRITTLE FRACTURE RESEARCH 67-08 M17-75289
BEHAVIOR OF MILD STEEL DURING TESTING BY REPEATED-STATIC BENDING LOAD 67-08 M17-75353
HAZARDOUS METALLURGICAL NOTCHES 67-08 M17-75526
ELEVATED TEMPERATURE STRENGTH OF TUBES AND PIPES FOR HIGH-TEMPERATURE SERVICES 67-08 M17-75808
INFLUENCE OF THE STRUCTURE ON THE RESISTANCE OF METAL TO WEAR BY ABRASION 67-08 M17-76008
STABILITY OF THE STRUCTURE AND PROPERTIES OF 12SH1M1F STEEL PIPES 67-08 M17-76016
THERMOMECHANICAL TREATMENT OF STEEL DURING ISOTHERMAL TRANSFORMATION OF SUPER-COOLED AUSTENITE 67-09 M10-77422
INVESTIGATIONS INTO THE COLD WORKING PROPERTIES OF THE HEAT AFFECTED ZONE RESULTING FROM FLAME CUTTING STEEL SHEET METAL 67-09 M17-77339
CHARACTERISTICS OF REVERSE TEMPER BRITTLENESS IN CAST STEEL 67-09 M17-77369
INVESTIGATION OF THE NATURE OF REVERSE TEMPER BRITTLENESS OF STEELS BY THE INTERNAL FRICTION METHOD 67-09 M17-77401
INFLUENCE OF ALLOYING ELEMENTS ON PROPERTIES OF STRUCTURAL CR-MN STEELS 67-09 M17-77406
ROTATING STRENGTH OF HIGH-SPEED ROTOR 67-09 M17-77574
FATIGUE RESISTANCE OF 16GNM STEEL ELECTROSLAG WELDED JOINTS 67-09 M17-77603
THE EFFECT OF HOT-SPOT TEMPERATURES ON THE UNLUBRICATED WEAR OF STEEL 67-10 M17-78554
EFFECT OF THERMOMECHANICAL TREATMENT ON THE MECHANICAL PROPERTIES OF LOW-CARBON AND LOW-ALLOY STEELS 67-10 M17-78809
EFFECT OF NICKEL ON THE MECHAICAL PROPERTIES AND COLD BRITTLENESS THRESHOLD OF LOW-CARBON STEEL 67-10 M17-78833
EFFECT OF DEHYDROGENATION ANNEALING ON THE PROPERTIES OF 40KH AND 34KHN3M STEELS 67-10 M17-78844
EXPERIENCE WITH PRODUCING 14KHGS STEEL FOR GAS MAIN PIPES AT THE KOMMUNAR IRON AND STEEL PLANT 67-10 M17-78926
THE WEAR RESISTANCE OF CHROMIUM-SILICON-MANGANESE STEEL WHEN EXPOSED TO BOUNDARY FRICTION AND HIGH SPECIFIC LOADS 67-10 M17-78952
THE EFFECTS OF THERMOMECHANICAL TREATMENT ON THE MECHANICAL STRENGTH OF SPRING STEELS AFTER THEY HAVE BEEN USED 67-10 M17-78953
EFFECTS OF FLUCTUATIONS IN THE TEMPERATURE ON THE CREEP RESISTANCE OF 15 123 STEEL 67-10 M17-79743
A NEW FORMULA FOR THE EXTRAPOLATION OF CREEP TEST RESULTS--AN EXAMPLE OF ITS APPLICATION TO A CR-MO-V STEEL 67-11 M17-80253
THE EFFECT OF CARBON, NITROGEN, AND BORON ON ELEVATED-TEMPERATURE PROPERTIES 67-11 M17-80282
CREEP-RUPTURE DATA--TESTING AND APPLICATION FOR STRESS CONCENTRATION DESIGN CRITERIA 67-11 M17-80286
CHARACTERISTICS OF FATIGUE DIAGRAMS IN CONDITIONS OF FRETTING CORROSION 67-11 M17-80584
EFFECT OF REFINING WITH LIQUID SYNTHETIC SLAG ON THE DUCTILE CHARACTERISTICS OF LOW-ALLOY STRUCTURAL STEELS 67-11 M17-80962
EFFECT OF SMALL AMOUNTS OF ADDITIONAL ELEMENTS ON THE COLD BRITTLENESS OF CARBON AND LOW-ALLOY STEELS 67-11 M17-80964
WAYS OF INCREASING THE STRENGTH OF STRUCTURAL STEELS 67-11 M17-80980
THE EFFECT OF ENVIRONMENTS ON FATIGUE-CRACK PROPAGATION IN AN ULTRAHIGH-STRENGTH STEEL 67-11 M17-81033
FRACTURE TOUGHNESS OF A MEDIUM-STRENGTH STEEL 67-11 M17-81140
EFFECT OF LOWER BAINITE ON MECHANICAL STRENGTH AFTER TEMPERING 67-11 M17-81145
FAILURE ENERGY OF STEELS IN DYNAMIC BENDING 67-12 M17-81717
STUDY OF THE KINETICS OF FATIGUE CRACK DEVELOPMENT IN STEELS SUBJECT TO TEMPERING BRITTLENESS 67-12 M17-81998
EFFECT OF NIOBIUM ON THE STRUCTURE AND PROPERTIES OF HYPEREUTECTOID STEEL 67-12 M17-82091
APPARATUS FOR DETERMINING THE PLASTICITY OF METALS IN TORSION AT HIGH TEMPERATURES 67-12 M17-82179
THE EFFECT OF HYDRAULIC TEST PRESSURE UPON THE SUBSEQUENT SERVICEABILITY OF PARTS OPERATING IN HYDROGEN 67-12 M17-82432
FATIGUE CRACK NUCLEATION IN A HIGH-STRENGTH LOW-ALLOY STEEL 67-12 M17-82727
THE FRACTURE BEHAVIOR OF CASE-HARDENED PARTS 67-12 M17-82838
INVESTIGATIONS OF THE EFFECT OF SURFACE TREATMENT ON THE FATIGUE PROPERTIES OF STEELS 67-12 M17-82843
THE FATIGUE STRENGTH AND THE EFFECT OF NONMETALLIC INCLUSIONS ON THE ENDURANCE OF CASE-HARDENING STEELS 67-12 M17-82845
SOME DATA CONCERNING THE FATIGUE BEHAVIOR OF NITRIDED STEELS 67-12 M17-82847
A COLD RESISTANT STRUCTURAL STEEL 67-12 M17-83388
STRENGTH OF HIGH STRENGTH STEEL STRUCTURE 67-12 M20-82924

LOW ALLOY STEELS, MECHANICAL TESTS
HARDENABILITY MEASUREMENTS. PT. 4 67-06 M17-70829

LOW ALLOY STEELS, MELTING
USE OF NITRIDED FERROCHROMIUM IN RAIL PRODUCTION 67-04 M04-66079
THE OXIDIZING PROCESSES TAKING PLACE DURING ELECTROSLAG REMELTING 67-04 M04-67875
SOME ASPECTS OF PRODUCTION OF ALLOY STEELS AND

LOW ALLOY STEELS

STAINLESS STEEL CASTINGS 67-06 M04-71323
STREAM DEGASSING AS A METHOD TO IMPROVE QUALITY AND INCREASE PRODUCTION IN THE MELTING OF SPECIAL STEELS 67-08 M04-74352
ALLOYING 5KHNV STEEL OUTSIDE THE FURNACE 67-12 M04-82491
MANUFACTURE AND PROPERTIES OF THE STEEL ST45/60 67-12 M04-83347

LOW ALLOY STEELS, METAL WORKING
ON THE PRODUCT OF PLATE MILL AT WAKAYAMA STEEL WORKS 67-01 M07-58244
STUDY OF DEFORMATION DURING STAMPING OF BATH TUBS FROM 08SKVG SHEET STEEL 67-04 M07-66081
THE FINE GRINDING OF SUPERFINISHING OF COLD-ROLLING ROLLS--A COMPARISON. PT. 1 67-04 M08-67187
PRELIMINARY THERMOMECHANICAL PROCESSING OF CONSTRUCTION STEELS 67-04 M17-66092
LOW-TEMPERATURE THERMOMECHANICAL TREATMENT OF WIRE 67-05 M07-68562
SHRINK FORMING 67-05 M08-69317
CONTROLLED THERMOMECHANICAL STRENGTHENING AND RECRYSTALLIZATION OF HIGH-CARBON STEELS 67-05 M17-69012
BLANKING-OFF REFORMER TUBES DURING PLANT OPERATION 67-06 M07-70540
DETERMINING THE CONTACT AREA WHEN SPINNING BOTTOMS 67-06 M08-70281
RECRYSTALLIZATION DURING AUSFORMING 67-06 M08-70359
AUSFORMING WIRE DRAWING 67-07 M07-72473
STAMPING OF BALL JOINTS 67-07 M07-73443
CONTINUOUS PLANISHING 67-07 M08-74264
REACTOR PRESSURE VESSELS--DESIGN-FABRICATION-TESTING 67-09 M20-77546
METAL DEFORMATION IN THE PRODUCTION OF LARGE-DIAMETER ELECTROWELDED TUBES 67-10 M08-78434
CLOSED-DIE FORGING IN SCOTLAND. PT. 2 67-11 M07-80420
COMBINED ROLLING AND CALIBRATION OF LARGE-GAGE THREADS 67-12 M07-81795
METAL DEFORMATION IN PRODUCTION OF LARGE DIAMETER ELECTRIC-WELDED TUBES 67-12 M07-83432

LOW ALLOY STEELS, MICROSTRUCTURE
THE CRYSTALLOGRAPHIC ORIENTATION RELATIONSHIP BETWEEN MO2C AND FERRITE MATRIX 67-02 M13-60277
DIAGRAM SHOWING PHASE RELATIONS OF THE OXIDE INCLUSIONS FORMED IN STEELS OF THE FE-CR-O SYSTEM 67-02 M13-60623
RECRYSTALLIZATION OF 20KHGS STEEL DEFORMED AT HIGH TEMPERATURES 67-02 M14-59671
INFLUENCE OF FERRITE FORM ON REFINEMENT OF STEEL IN FRACTURE 67-02 M14-60272
DENDRITE STRUCTURE AND GRAIN SIZE OF UNDER COOLED MELTS 67-03 M14-65078
CONTROLLED SOLIDIFICATION 67-03 M14-65337
INVESTIGATION OF THE STRUCTURE OF THE CASE HARDENED LAYER OF 20KHGVT AND 20KHGSVT NICKEL-LESS STEELS 67-04 M13-66625
CHEMICAL THINNING TECHNIQUE FOR THE PREPARATION OF THIN FOILS FROM BULK SAMPLES OF FERROUS MATERIALS 67-04 M13-67026
A METHOD OF STUDYING THE TRANSFORMATION OF AUSTENITE UNDER WELDING CYCLE CONDITIONS 67-04 M14-66440
ON THE SOLUBILITY OF THE NITRIDES OF CHROMIUM, VANADIUM AND ALUMINUM IN AUSTENITE 67-04 M14-67391
BANDING IN CARBON AND LOW-ALLOY STEEL--A BRIEF REVIEW 67-05 M13-69871
STUDY OF NITROGEN-CONTAINING LOW-ALLOY STEEL 67-06 M13-70914
STUDY OF THE SURFACE MICRORELIEF OF STEEL WITH A WIDMANSTATTEN STRUCTURE 67-06 M14-69979
PRECIPITATION OF CRN IN LOW-ALLOY MEDIUM-TENSILE STRENGTH STEEL 67-06 M14-70813
A PROCEDURE FOR STUDYING THE AUSTENITE TRANSFORMATION DURING WELDING CYCLES 67-07 M14-72699
BURGERS VECTORS OF DISLOCATIONS IN DEFORMED IRON AND IRON ALLOYS 67-07 M14-73500
INFLUENCE OF ALLOYED ELEMENTS ON THE FORMATION OF THE WIDMANSTATTEN STRUCTURE 67-08 M13-74959
DISTRIBUTION OF THE PRECIPITATES OF THE SECOND PHASE ALONG THE BOUNDARIES IN ALLOYED STEELS AND ALLOYS 67-08 M13-74960
THE EFFECT OF OXYGEN IN RESULFURIZED STEELS. PT. 1 67-09 M04-76724
INFLUENCE OF ALLOYING ON THE RECRYSTALLISATION TEMPERATURE OF IRON DURING RAPID HEATING 67-12 M14-82155

LOW ALLOY STEELS, NONDESTRUCTIVE TESTING
APPLICATION OF EXOELECTRONIC EMISSION IN METAL SCIENCE 67-02 M19-60859
APPLICATION OF THE METHOD OF EXOELECTRON EMISSION IN METAL SCIENCE 67-08 M19-76117
ULTRASOUND INSPECTION OF MACROSTRUCTURE 67-12 M19-82308

LOW ALLOY STEELS, OXIDATION
A STUDY ON THE INTERNAL OXIDATION OF LOW-ALLOY STEELS 67-09 M18-76234
THE OXIDATION OF FE AND LOW-ALLOYED HEAT RESISTANT STEELS IN CO ATMOSPHERES AT 500 AND 550 C 67-11 M18-80353
SCALE BLISTERS ON FERROUS ALLOYS 67-12 M18-83216

LOW ALLOY STEELS, PHASE TRANSFORMATIONS
ON THE CAUSE OF THE LOWERING OF THE MARTENSITIC POINT AFTER PARTIAL TRANSFORMATION OF AUSTENITE IN THE INTERMEDIATE REGION 67-01 M14-57189
INVESTIGATION OF THE DECOMPOSITION KINETICS OF SUPERCOOLED AUSTENITE IN 20KHGNR STEEL 67-02 M14-59676
TRANSFORMATIONS DURING TEMPERING OF STEEL 67-02 M14-60286
TECHNOLOGICAL FACTORS, DETERMINING THE SELECTION OF STEELS FOR FULL HARDENED RAILS 67-04 M10-66627
A THERMAL STABILIZATION OF AUSTENITE 67-04 M14-66929
KINETICS OF THE INTERMEDIATE TRANSFORMATION IN CHROMIUM-NICKEL-MANGANESE STEELS 67-05 M14-68255
EFFECT OF HOT PLASTIC DEFORMATION ON THE KINETICS OF ISOTHERMAL TRANSFORMATION OF AUSTENITE 67-05 M14-69658
INTERRELATION OF ISOTHERMAL AND CONTINUOUS-COOLING HEAT TREATMENTS OF LOW-ALLOY STEELS AND THEIR PRACTICAL SIGNIFICANCE 67-06 M14-71934
PRECIPITATION HARDENING IN STEEL 67-06 M14-71936
ANISOTROPY OF THE RATE OF GROWTH OF ALPHA-PHASE CRYSTALS DURING BAINITE TRANSFORMATION 67-06 M14-72343
TRANSFORMATION FEATURES OF CARBURIZED CR-MO STEELS 67-09 M14-76757
EFFECT OF STRAIN DEFORMATION ON ISOTHERMAL TRANSFORMATION OF SUPERCOOLED AUSTENITE OF 40KHSA STEEL 67-09 M14-77264
INVESTIGATIONS ON THE TRANSFORMATION OF THE RETAINED AUSTENITE IN LOW-ALLOY STEELS WITH ABOUT 1 PER CENT C 67-09 M14-77349

LOW ALLOY STEELS, PHASES /STATE OF MATTER/
X-RAY MICROGRAPHY OF CARBIDE PHASES IN STEELS 67-02 M13-60098
TEXTURE STUDY OF THE ALPHA-TO-GAMMA TRANSFORMATION 67-05 M14-68249
PHASE COMPOSITION OF WELDED METAL OF LOW-ALLOY STEELS 67-06 M13-72301
STRUCTURAL COMPONENTS OF WELD METALS IN LOW ALLOY STEELS 67-11 M13-81573

LOW ALLOY STEELS, PHYSICAL PROPERTIES
THE EFFECT OF MOLYBDENUM ON THE HEAT RESISTANCE OF CR-MOV STEELS WITH A LOW CARBON CONTENT 67-04 M15-66020
STROLOY 5-C --LOW-ALLOY HIGH-STRENGTH TUBE STEEL-- 67-09 M01-76528

LOW ALLOY STEELS, QUENCHING /COOLING/
DEVELOPMENT IN EQUIPMENT AND PRACTICES FOR QUENCHING STEEL PLATES 67-03 M10-65923

LOW ALLOY STEELS, RADIATION EFFECTS
RADIATION EFFECTS IN NONFUEL MATERIALS 67-11 M16-80472

LOW ALLOY STEELS, RAILROAD TRACK
PROPERTIES OF LOW-ALLOY STEEL HEAT TREATED RAILS 67-02 M17-61755
DEVELOPING A TECHNOLOGY FOR PRODUCING HIGH-STRENGTH RAILROAD RAILS 67-05 M08-68554
DEVELOPING A TECHNOLOGY FOR PRODUCING HIGH-TENSILE STEEL RAILWAY RAILS 67-07 M08-72465

LOW ALLOY STEELS, REACTIONS /CHEMICAL/
USE OF SILICO-ALUMINUM TO DEOXIDIZE STEEL 67-04 M04-66032
ALLOYING LOW-CARBON MANGANESE STEEL WITH MINUTE ADDITIONS OF HAFNIUM 67-07 M14-72669

LOW ALLOY STEELS, REFINING
USE OF 14KHGS OXYGEN CONVERTER STEEL FOR PRODUCING

ELECTROWELDED TUBING 67-02 M04-62152
REFINING CABLE STEEL IN THE LADLE BY A SLAG FORMING MIXTURE AND SIMULTANEOUS ARGON BLOWING 67-07 M04-73778
REFINING CABLE STEEL IN LADLE WITH A SLAG-FORMING MIXTURE AND INJECTING IT WITH ARGON 67-09 M04-76541
STUDY OF THE EFFECT OF REPEATED ELECTROSLAG REMELTING ON THE QUALITY OF BALLBEARING STEELS 67-09 M04-76828
REFINING STEEL IN ELECTRIC FURNACES BY BLOWING WITH POWDERED MIXTURES IN AN AIR JET 67-09 M04-77629
REMOVAL OF NONMETALLIC INCLUSIONS FROM METAL IN ELECTROSLAG REMELTING 67-10 M04-78427
REFINING STEEL IN ELECTRIC FURNACES BY THE INJECTION OF POWDERED MIXTURES INTO THE AIR JET 67-11 M04-80917
IMPROVING THE PROPERTIES OF ELECTRIC STEEL FOR CASTINGS 67-12 M04-81722
NEW STEEL PROCESS COMBINES REFINING AND DEGASSING IN INDUCTION STIRRED FURNACE LADLE 67-12 M04-82883

LOW ALLOY STEELS, ROLLING
HIGH SPEED MILL AT CONTRECOEUR 67-01 M07-58496
STUDY OF SHEET METAL MADE BY LONGITUDINAL AND CROSS ROLLING FOR THE PRODUCTION OF LARGE-DIAMETER ELECTROWELDED PIPE 67-02 M07-61946
EFFECT OF ROLLING PLAN ON QUALITY OF HEAVY-GAGE STEEL AND MILL PRODUCTIVITY 67-02 M07-61947
EFFECT OF ROLLING SCHEDULE ON QUALITY OF THICK PLATE STEEL AND MILL OUTPUT 67-04 M07-67778
STUDY OF METAL IN LONGITUDINAL AND TRANSVERSE ROLLING IN ELECTRICALLY-WELDED LARGE DIAMETER PIPES 67-04 M07-67779
CALCULATION METHOD FOR HOT ROLLING OF STEEL SHEET AND STRIP 67-06 M07-70809
THE PRODUCTION AND FABRICATION OF COLD-FORMED SECTIONS AT THE WORKS OF AYRSHIRE METAL PRODUCTS LTD 67-07 M07-72998
INVESTIGATION OF ROLLED PRODUCTS FROM CONTINUOUSLY CAST RECTANGULAR BILLETS 67-09 M07-77634
ROLLING CONTINUOUSLY CAST RECTANGULAR STEEL BILLETS 67-11 M07-80922

LOW ALLOY STEELS, SAWS
THE RESISTANCE AND LIFE OF BLADES FOR HOT SAWING OF METAL 67-04 M08-66629

LOW ALLOY STEELS, SPECIFICATIONS
THE MECHANICAL AND PHYSICAL PROPERTIES OF THE BRITISH STANDARD EN STEELS 67-02 M01-60552

LOW ALLOY STEELS, STEEL MAKING
DEVELOPMENTS IN RESEARCH ON THE LD AND OG PROCESSES AND THEIR INDUSTRIALIZATION 67-01 M04-58107
MAKING TUNGSTEN-BEARING STEEL FOR THE PRODUCTION OF HIGH-STRENGTH TUBES 67-02 M04-61956
OXYGEN ATOMIZES MOLTEN IRON IN SPRAY STEELMAKING PROCESS 67-03 M04-65485
STEEL CONTAINING TUNGSTEN MELTED FOR HIGH-TENSILE TUBES 67-04 M04-67774
EFFECT OF SCRAP QUALITY AND CHARGING CONDITIONS ON THE PERFORMANCE AND COSTS OF AN OPENHEARTH FURNACE 67-04 M04-68006
INFLUENCE OF PRELIMINARY DEOXIDATION ON QUALITY OF OPENHEARTH STEEL TREATED WITH ANYTHETIC SLAG IN A LADLE 67-05 M04-68546
THE MECHANISM OF THE RIMMING OF METAL DURING THE VACUUM TREATMENT OF BALL BEARING STEEL IN THE LADLE 67-06 M04-70271
IRON FOR STEELMAKING AT APPLEBY-FRODINGHAM 67-07 M04-72412
EFFECT OF PRELIMINARY DEOXIDATION ON QUALITY OF OPEN-HEARTH STEEL TREATED WITH SYNTHETIC SLAG IN THE LADLE 67-07 M04-72457
USE OF EXOTHERMIC FERROALLOYS IN THE PRODUCTION OF LOW-ALLOY OXYGEN CONVERTER STEEL 67-08 M04-76271
CONTROL OF COMPOSITION IN ARC FURNACES 67-09 M04-76423
USE OF EXOTHERMIC FERROALLOYS WHEN MELTING LOW ALLOY BASIC OXYGEN STEEL 67-10 M04-79264

LOW ALLOY STEELS, SURFACE FINISHING
IMPROVING THE PRODUCTIVITY OF METAL FLAME SCARFING 67-04 M08-66619

LOW ALLOY STEELS, TENSION TESTS
STUDY OF STEEL THERMOMECHANICALLY STRENGTHENED DURING TENSION USING HIGH SPEED FILM 67-03 M17-65102
INVESTIGATION OF STEEL UNDER CONDITIONS OF BIAXIAL TENSION AT ROOM AND LOW TEMPERATURES 67-03 M17-65103

LOW ALLOY STEELS, WELDED JOINTS
AN APPROXIMATE ESTIMATION OF THE STRENGTH INDICES OF THE HEAT AFFECTED ZONE METAL IN THE WELDING OF CARBON AND LOW ALLOY STEELS 67-12 M15-82240

LOW ALLOY STEELS, WELDING
MAGNETIC INTERACTION OF ARCS DURING TWIN-ARC THREE-PHASE WELDING 67-01 M11-57393
WELDABILITY OF 10KHSND CONVERTER STEEL 67-01 M11-57534
WELDING TURNING BUTTS OF THICK-WALLED PIPES WITHOUT BACKING RINGS 67-01 M11-58210
AUTOMATIC DEPOSIT WELDING OF STAINLESS STEELS ONTO PEARLITIC STEELS USING A PLASMA JET 67-01 M12-57396
WELDABILITY OF HEAT-TREATED LOW-ALLOY 12G2SMF AND 12KHG2SMF STEELS 67-01 M17-57523
WELDING OF HEATERS IN KH5M STEEL 67-02 M11-59521
WELDABILITY OF HEAT TREATED LOW ALLOY 15GF STEEL 67-02 M11-60004
WELDING OF STEEL FOR LOW-TEMPERATURE SERVICE. PT. 3. YND-37 STEEL, YND-58 STEEL AND 9 PER CENT NI STEEL 67-02 M11-60170
STRENGTH OF WELDED JOINTS OF THERMALLY STRENGTHENED STEELS UNDER BIAXIAL TENSION 67-02 M11-60833
PROGRESS IN WELDING AND THE PROBLEM OF WELDING TECHNOLOGISTS IN AUSTRALIA 67-02 M11-60913
WELDABILITY OF 10KHSND CONVERTER STEEL 67-02 M11-61153
INVESTIGATION, FOR THE CASE OF WELDING, OF A RELATION BETWEEN TIME AND TEMPERATURE OF AUSTENIZATION 67-02 M14-59993
WELDING HEAT TREATED ST. 5 AND 35GS STEELS 67-02 M17-60003
WELDABILITY OF HEAT TREATED LOW ALLOY 12G2SMF AND 12KHG2SMF STEELS 67-02 M17-61142
WELDING OF SPECIAL AND COMMON STEEL PIPE 67-03 M11-65062
TWO-SIDED TRIPLE-LAYER WELDING OF SPIRAL-SEAMED TUBES, 1020 MM DIAMETER 67-04 M11-66435
ACCEPTANCE TESTING OF LOW-CARBON AND LOW-ALLOY STRUCTURAL STEELS FOR WELDABILITY 67-04 M11-66436
CHARACTERISTICS OF PLASTIC DEFORMATION IN NON-FUSION WELDING 67-04 M11-66461
WELDING OF HEATERS MADE FROM KH5M STEEL 67-04 M11-66470
ARC WELDING SEAMS WITH FORCED SHAPING 67-04 M11-66577
WELDING TECHNOLOGY USED TO REPAIR PASSENGER AND FREIGHT CARS OF THE GERMAN FEDERAL RAILWAYS 67-04 M11-66914
ESTABLISHMENT OF ARC WELDING PROCEDURE OF STRUCTURAL STEELS 67-04 M11-67586
STRENGTH IN BIAXIAL TENSION OF WELDED JOINTS IN HEAT TREATED STEELS 67-04 M11-67990
MECHANIZED BUILDUP OF VANES OF RADIAL-AXIAL HYDROTURBINE GEARS 67-04 M12-66573
WEAR-RESISTANT BUILDUP OF PIECES OF BUCKET EXCAVATOR CHAINS 67-04 M12-66813
DETERMINING THE AMOUNT OF AUSTENITE IN MULTI-PHASE HARD DEPOSITED METAL 67-04 M12-67174
COMPOUND KNIFE STEELS WITH WEAR-RESISTANT CUTTING EDGES 67-04 M20-66216
FLUX CORE WIRE FOR OPEN ARC WELDING OF LOW-CARBON AND LOW-ALLOY STEELS 67-06 M11-71649
RECLAMATION OF STEEL MILL ROLLS 67-06 M11-71826
CHARACTERISTICS OF WELDING OF STRUCTURAL STEEL REFINED IN A LADLE WITH SYNTHETIC SLAG 67-06 M11-71840
INFLUENCE OF THE INITIAL TEMPERATURE OF BASE METAL ON PROPERTIES OF WELDED JOINTS 67-06 M11-71842
PREDOMINANT CASES AND REASONS OF BRITTLE FAILURE 67-06 M11-71846
INFLUENCE OF ALLOYING ELEMENTS ON RESIDUAL CONTENT OF NITROGEN IN OPEN ARC WELDED METAL 67-06 M11-72303
MECHANIZED HARD SURFACING OF THE IMPELLERS OF A SUCTION DREDGE 67-06 M11-72311
THREE PASS SPIRAL WELDS MADE FROM BOTH SIDES IN 1020 MM DIAM PIPES 67-07 M11-72694
WELDABILITY TESTS FOR MILD AND LOW ALLOY STRUCTURAL STEELS 67-07 M11-72695
THE MECHANISED BUILDING UP OF RADIAL-AXIAL FLOW

LOW ALLOY STEELS
HYDRAULIC TURBINE RUNNER BLADES
67-07 M12-73430
HEAT TREATMENT OF HIGH-STRENGTH WELDED DRILLING TUBES 67-08 M10-74376
MANUFACTURING WELDED TUBES OF LOW-ALLOY STEELS
67-08 M11-74374
12G2SMF AND 12KHG2SMF CONSTRUCTION STEEL FOR WELDED STRUCTURES 67-08 M11-76283
BUILDING UP EXCAVATOR BUCKET LINE COMPONENTS WITH WEAR-RESISTANT METAL 67-08 M12-75917
INFLUENCE ON LOCAL JOINT DISTORTION OF THE RIGIDITY OF CLAMPING SHEETS FOR WELDING
67-09 M11-77243
ARGON ARC WELDING OF STEAM SUPERHEATING PIPES OF 12KH1MF STEEL 67-09 M11-77617
WELDABILITY OF CB-BEARING HIGH STRENGTH LOW ALLOY STEEL 67-09 M11-77952
INFLUENCE OF THE INITIAL TEMPERATURE OF BASE METAL ON THE PROPERTIES OF WELDED JOINT
67-09 M11-78114
WELDING HIGH-PRESSURE PIPELINE UNDER FIELD CONDITIONS 67-09 M11-78123
GRADES 12G2SMF AND 12KHG2SMF STRUCTURAL STEELS FOR WELDED STRUCTURES 67-10 M11-79276
POWDER FILLED WIRE FOR THE UNSHIELDED ARC WELDING OF MILD AND LOW ALLOY STEELS 67-10 M11-79616
ELECTRON BEAM WELDING OF D6AC STEEL IN THE HEAT TREATED CONDITION 67-11 M11-80411
AN INVESTIGATION INTO THE MANUFACTURE OF ROUND STEEL CHAINS FABRICATED BY MEANS OF BUTT-SEAM RESISTANCE WELDING 67-11 M11-80510
WELDING STRUCTURAL STEEL WHICH HAS BEEN REFINED IN THE LADLE WITH MOLTEN SYNTHETIC SLAG
67-11 M11-80872
EFFECTS OF THE INITIAL TEMPERATURE OF THE PARENT METAL ON THE PROPERTIES OF WELDED JOINTS
67-11 M11-80874
EFFECTS OF ALLOYING ELEMENTS ON THE RESIDUAL NITROGEN CONTENT OF THE WELD METAL AFTER OPEN ARC WELDING 67-11 M11-81575
BUILDING UP THE ROTORS OF SUCTION DREDGERS WITH WEAR-RESISTANT METAL 67-11 M11-81583
HETEROGENEITY AND AUSTENITE GRAIN GROWTH IN ELECTROSLAG WELDING OF 15KH2MF STEEL
67-11 M14-80552
WIDESPREAD CASES OF BRITTLE FRACTURE AND THEIR CAUSES 67-11 M17-80878
HEAT TREATMENT OF HIGH STRENGTH WELDED JOINTS IN DRILLING TUBES 67-12 M10-82249
DUCTILE INSERT FOR WELDING STEEL TO ALUMINUM
67-12 M11-82075
PRODUCTION OF WELDED TUBES IN LOW ALLOY STEELS
67-12 M11-82247
PROLONGING THE USEFUL LIFE OF COMPONENTS BY MULTI-ELECTRODE HARDFACING 67-12 M11-82320
OPTIMUM THERMAL CYCLE DURING RESISTANCE WELDING OF 12KH1MF STEEL 67-12 M11-82626
CURRENT PENETRATION SEAM WELDING--A NEW HIGH SPEED PROCESS 67-12 M11-82818
AUTOMATIC SUBMERGED ARC WELDING OF T-CONNECTIONS OF FOUNDATION ELEMENTS 67-12 M11-83191
TRANSFORMATIONS AND REACTIONS IN THE HEAT AFFECTED ZONE DURING WELDING AND FLAME CUTTING
67-12 M11-83205
CHEMICAL HETEROGENEITY IN RESISTANCE WELDED STEEL JOINTS OF LARGE CROSS SECTION
67-12 M19-82627
LOW ALLOY STEELS, X RAY ANALYSIS
X-RAY FLUORESCENCE TECHNIQUE FOR THE STUDY OF SEGREGATION IN STEEL 67-04 M13-66985
LOW CARBON STEELS, HEAT TREATMENT
OPEN-COIL ANNEALING AT EBBW VALE
67-04 M10-67906
LOW CARBON STEELS, MECHANICAL PROPERTIES
RELATIONSHIP BETWEEN MICRODEFORMATIONS AND THE GENERATION OF DISLOCATIONS IN IRON AND MILD STEEL
67-04 M17-66309
EFFECT OF NOTCH ACUITY ON BRITTLE FRACTURE BEHAVIOUR OF MILD STEEL AT 77 K
67-04 M17-66988
EFFECTS OF NONMETALLIC INCLUSIONS ON MECHANICAL PROPERTIES OF ELECTRIC RESISTANCE WELDED STEEL TUBES 67-04 M17-67514
EFFECT OF SHORT HEATING PERIODS ON THE MECHANICAL PROPERTIES OF 20S SHEET STEEL
67-04 M17-67969
LOW EXPANSION ALLOYS
SEE ALSO INVAR
LOW EXPANSION ALLOYS, BRAZING
LOW-VAPOR PRESSURE BRAZING ALLOYS FOR GRADUAL BRAZING IN TEMPERATURE RANGE FROM 450 TO 600 C
67-06 M11-71653
LOW EXPANSION ALLOYS, MAGNETIC PROPERTIES
ON THE MAGNETIC PROPERTIES OF INVAR ALLOYS
67-06 M15-70900
LOW EXPANSION ALLOYS, WELDING
COLD WELDING OF TRANSISTOR HOUSINGS
67-06 M11-71655
COLD WELDING OF TRANSISTOR BODIES
67-10 M11-79623
LOW FREQUENCY INDUCTION FURNACES
STUDY ON THE OPERATION OF A LOW-FREQUENCY ELECTRIC FURNACE 67-05 M06-66952
LOW TEMPERATURE TESTS
EVALUATION OF FRACTURE CHARACTERISTICS OF ALUMINUM ALLOYS AT CRYOGENIC TEMPERATURES
67-01 M17-57628
LOW-TEMPERATURE FLOW AND FRACTURE BEHAVIOR OF TANTALUM 67-01 M17-57630
A STUDY OF THE TOUGHNESS DIFFERENCES BETWEEN ALUMINUM-KILLED AND SEMIKILLED STEELS
67-01 M17-58461
MECHANICAL BEHAVIOR OF ALUMINUM STRAINED WITH IMPACT LOADING 67-02 M17-59125
DISLOCATION MECHANISMS FOR PLASTIC FLOW IN AN IRON-MANGANESE ALLOY AT LOW TEMPERATURES
67-02 M17-59429
MECHANICAL PROPERTIES OF MEDIUM-MANGANESE STEEL AT LOW TEMPERATURES 67-02 M17-59651
SOME NOTES ON THE MANUAL ARC WELDING OF LOW-TEMPERATURE HIGH-STRENGTH STEELS
67-02 M17-60106
TEMPERATURE DEPENDENCE OF THE HARDNESS OF LANTHANUM AND NEODYMIUM IN THE RANGE 77-293 K
67-02 M17-61939
INFLUENCE OF NICKEL ON MECHANICAL PROPERTIES AND CRYOGENIC PROPERTIES OF LOW-CARBON STEEL
67-02 M17-61976
MECHANICAL PROPERTIES OF KH14G14N3T STEEL AT MINUS 253 C 67-02 M17-61977
MECHANICAL PROPERTIES OF KH21G7AN5 STEEL AT LIQUID HYDROGEN TEMPERATURE 67-02 M17-61978
INVESTIGATION OF IMPACT STRENGTH OF AUSTENITIC STEELS AT LOW TEMPERATURES 67-02 M17-61979
LOW TEMPERATURE RECOVERY OF DEFORMED ZIRCONIUM
67-03 M14-65694
THERMAL CONDUCTIVITY OF DYSPROSIUM BETWEEN 1 AND 4 K 67-03 M15-65111
ULTRASONIC ATTENUATION IN CADMIUM SULFIDE FROM 1.8 TO 300 K 67-03 M15-65868
INVESTIGATION OF STEEL UNDER CONDITIONS OF BIAXIAL TENSION AT ROOM AND LOW TEMPERATURES
67-03 M17-65103
AN APPARATUS FOR DETERMINING THE ELASTIC CONSTANT OF METALS IN THE 20 TO - 253 C. TEMPERATURE RANGE
67-03 M17-65612
ELECTRICAL PROPERTIES OF PURE BISMUTH AND ITS ALLOYS WITH TIN IN A WIDE TEMPERATURE RANGE
67-04 M15-66016
ELECTRICAL RESISTANCE OF IRRADIATED ALPHA URANIUM CRYSTALS 67-04 M15-67464
ELECTRIC AND MAGNETIC PROPERTIES OF VO
67-04 M15-67486
BRITTLE FRACTURE IN ALPHA-TITANIUM
67-04 M17-66938
NUMERICAL DESCRIPTIONS OF THE AMBIENT LOW-TEMPERATURE, AND HIGH-STRAIN RATE FLOW AND FRACTURE BEHAVIOR OF PLAIN CARBON STEEL
67-04 M17-66941
ALUMINUM-KILLED STEEL PLATES --NORMALIZED-- FOR LOW-TEMPERATURE SERVICES 67-04 M17-67516
STRAIN-RATE DEPENDENCE OF THE FLOW STRESS FOR BASAL SLIP IN ZINC 67-04 M17-67582
ANALYSIS OF TEMPERATURE AND RATE RELATIONSHIPS OF YIELD STRENGTH AND FLOW STRESS OF ARMCO IRON IN THE LOW-TEMPERATURE RANGE 67-04 M17-67924
PHASE DIAGRAM OF BISMUTH AT LOW TEMPERATURES
67-05 M13-68572
SOME ELECTRICAL-RESISTIVITY MEASUREMENTS ON CERIUM METALS OF VARIOUS PURITIES 67-06 M15-69930
FATIGUE FRACTURE IN COPPER AND THE CU-8WT. PER CENT AL ALLOY AT LOW TEMPERATURE 67-06 M17-69947
ON THE TESTING OF STEEL IN BIAXIAL TENSION AT ROOM TEMPERATURE AND LOWER TEMPERATURES
67-07 M17-72789
HEAT EXPANSION OF INVAR ALLOYS AT LOW TEMPERATURES
67-08 M15-75284
DEVICE FOR DETERMINING THE CHARACTERISTICS OF

ELASTICITY OF METALS IN THE TEMPERATURE RANGE PLUS 20 TO MINUS 253 C 67-08 M17-74537
LOW-TEMPERATURE DEFORMATION TECHNIQUES 67-08 M17-74698
MARTENSITIC TRANSFORMATION AT VERY LOW-TEMPERATURES IN 18-10 LOW-CARBON AUSTENITIC STEELS DURING WORK HARDENING AND CREEP 67-10 M14-79936
EFFECT OF NICKEL ON THE MECHAICAL PROPERTIES AND COLD BRITTLENESS THRESHOLD OF LOW-CARBON STEEL 67-10 M17-78833
MECHANICAL PROPERTIES OF KH14G14N3T STEEL AT MINUS 253 C 67-10 M17-78834
MECHANICAL PROPERTIES OF KH21G7AN5 STEEL AT THE TEMPERATURE OF LIQUID HYDROGEN 67-10 M17-78835
IMPACT TOUGHNESS OF AUSTENITIC STEELS AT LOW TEMPERATURES 67-10 M17-78836
DIMENSIONAL VARIATION OF STEEL MOSAIC UNITS AT LOW TEMPERATURES 67-12 M13-83361
PLASTIC DEFORMATION OF LOW-CARBON STEEL AT BRITTLE FRACTURE 67-12 M17-82631
LOCAL AND UNIFORM DUCTILITY, STRENGTH AND IMPACT STRENGTH OF KH18N10T STAINLESS STEEL AT HIGH AND LOW TEMPERATURE 67-12 M17-83530
INVESTIGATION OF ON6A AND ON9A STEELS FOR PERFORMANCE AT -196 C 67-12 M17-83531
NOTCH SENSITIVITY OF KH21G7AN5 STAINLESS STEEL AT LIQUID HYDROGEN TEMPERATURE 67-12 M17-83533
LOW-TEMPERATURE MECHANICAL PROPERTIES OF SOME ALUMINUM ALLOY WELDS 67-12 M17-83534

LUBRICANTS
SEE ALSO LUBRICATING OILS
METAL PROCESSING LUBRICANTS .
BETTER FORGING LUBRICANTS DOUBLE THE LONGEVITY OF DIES 67-02 M07-59148
INVESTIGATION OF ANTIFRICTION PROPERTIES OF SEALING COMPOSITE MATERIALS. PT. 2 67-02 M09-60182
SELECTION OF LUBRICATION OILS FOR IRON-GRAPHITE SLIDING BEARINGS 67-02 M17-62129
THE SELECTION OF LUBRICANTS IN DEEP DRAWING 67-03 M08-65727
COLD DRAWING TUBES IN A WORK-HARDENED CONDITION 67-04 M07-67693
LUBRICANTS FOR COLD FORMING 67-04 M07-68058
EVALUATION OF STEEL WIRE-DRAWING LUBRICANT BY RADIO ISOTOPE 67-04 M07-68174
TESTING COMMERCIAL LUBRICANTS FOR TENDENCY TOWARDS CARBON FORMATION DURING ANNEALING OF ALUMINUM SHEETS 67-04 M10-66979
THE SURFACE TREATMENT OF EXTRUDED PARTS 67-04 M12-68059
A NEW LUBRICANT AND PROTECTIVE AGENT FOR USE ON STEEL ROD AND TUBE EXTRUSION PRESSES 67-05 M07-69432
THE LABORATORY TESTING OF MOLD RELEASE AGENTS 67-06 M06-71093
FACTORS IN SELECTING MATERIALS FOR FORMING 67-06 M07-70722
INVESTIGATION OF THE CHEMICAL STABILITY OF SOLID LUBRICANTS AT HIGH TEMPERATURES. PT. 1 67-06 M18-70770
EVALUATION OF CUTTING FLUIDS FOR TAPPING CAST IRONS 67-07 M08-72995
IN DRAWING, BLANKING, STAMPING--SELECTING THE PROPER PRESS LUBRICANT 67-07 M08-74263
LUBRICATING WITH MOLYBDENUM DISULFIDE 67-07 M08-74289
GEARS AND THEIR LUBRICATION 67-07 M17-73691
ASPECTS OF LUBRICATION AFFECTING LIFE OF ROLLING BEARINGS 67-07 M17-73722
ROLE OF ADDITIVES IN LUBRICANTS 67-08 M01-76297
LUBRICANT FOR COLD ROLLING OF METALS 67-08 M07-74867
METALWORKING 67-08 M07-75497
LUBRICANTS FOR BLANKING, STAMPING AND DRAWING 67-08 M08-75943
DEVICE AND METHOD FOR INVESTIGATION OF THE ANTIFRICTION PROPERTIES OF SOLID LUBRICANTS 67-08 M17-75439
A NEW APPROACH TO DIECASTING DIE LUBRICATION 67-09 M06-77798
COMPUTING THE COEFFICIENT OF FRICTION IN THE ROLL BITE FROM MILL DATA 67-09 M07-76500
STEEL EXTRUSION USING GLASS AS A LUBRICANT. --UGINE-SEJOURNET PROCESS-- 67-09 M07-77154
PRESS FORMING OF STAINLESS STEELS 67-09 M08-78142
THE LUBRICATION OF STEEL BY ELECTROPLATED GOLD 67-10 M17-78550
AN ELECTRON-MICROSCOPIC STUDY OF ALUMINUM WEAR PARTICLES FORMED DURING SLIDING IN THE PRESENCE OF POLYGLYCOLS 67-10 M17-79110
FRICTION WEAR TESTING OF ANTIFRICTION COATINGS AT UP TO 600 C. IN VACUUM AND INERT GASES 67-10 M17-79207
MOS2 IN BEARINGS 67-10 M20-78457
THE INFLUENCE OF VAPORS OF ORGANIC LIQUIDS AND OF STEAM ON THE SLIDING FRICTION SYSTEM OF MOS2 STEEL 67-11 M17-80868
THE CORROSION BEHAVIOR OF PALLADIUM IN TITANIUM-PALLADIUM ALLOY 67-12 M01-82504

LUBRICANTS, FRICTION
IMPROVING FRICTIONAL BEHAVIOR WITH SOLID FILM LUBRICANTS 67-03 M05-65432

LUBRICANTS, MACHINING
NOW--A BETTER SOLID FILM LUBRICANT 67-07 M08-72988

LUBRICANTS, MATERIALS
ANTIFRICTION PROPERTIES OF SOME COMPOSITE SINTERED PACKING MATERIALS. PT. 2 67-09 M09-76915

LUBRICANTS, METAL WORKING
SELECTING PRESS LUBRICANTS FOR STAMPING OPERATIONS 67-11 M08-81200

LUBRICANTS, SERVICE TIME
LUBRICANT LIFE TESTS ON BALL BEARINGS FOR SPACE APPLICATIONS 67-05 M17-68942

LUBRICATING OILS
LUBRICATION IN THE CONTINUOUS CASTING PROCESS 67-05 M04-69488
COLD ROLLING LUBRICATION TECHNOLOGY 67-09 M07-77149

LUBRICATION
HIGH-SPEED COLD ROLLING OF LOW-CARBON STEEL SHEET AS A FUNCTION OF LUBRICANT TYPE 67-01 M07-58091
EXTRUSION AT TEMPERATURES APPROACHING 5000 F 67-01 M07-58673
INVESTIGATION OF THE RUNNING-IN ABILITY OF IRON-BASE POWDERED-METAL MATERIALS 67-01 M09-58149
PRACTICAL TECHNIQUES FOR EFFICIENT LUBRICATION USING FRICTION-RESISTANT LACQUERS 67-01 M12-58386
SELECTING EMULSION LUBRICANTS FOR COLD STEEL STRIP ROLLING 67-02 M07-58888
THE SYNTHETIC FLUID AND ITS USES IN WIRE DRAWING 67-02 M07-59005
MEASUREMENT OF TENSION IN FINE WIRE DRAWING 67-02 M07-59008
DEVICE FOR AUTOMATIC LUBRICANT FEED IN TUBE DRAWING AND ROLLING 67-02 M07-59680
COOLING AND LUBRICATION OF ROLLERS DURING ROLLING AND SPREADING OF WIRE 67-02 M07-62284
HOW TO BEND TITANIUM TUBING 67-02 M08-59033
EFFECT OF COOLING LIQUID ON THE FRICTION PROCESS AND TOOL WEAR 67-03 M17-65207
MOLYBDENUM DISULPHIDE DEPOSITS--THEIR FORMATION AND CHARACTERISTICS ON STEEL BALLS 67-03 M17-65600
EVALUATING THE EFFECTIVENESS OF LUBRICATION IN UPSETTING ON MECHANICAL PRESSES 67-04 M08-67041
THE RELATIONSHIP BETWEEN BASIC MODES OF WEAR AND EXPERIENCE IN ENGINEERING PRACTICE 67-04 M17-66292
RESEARCH IN THE FIELD OF OIL-IMPREGNATED, POROUS BRONZE BEARINGS 67-04 M20-67211
CHANGING STRIP THICKNESS AS AFFECTED BY ROLLING RATE 67-05 M07-68551
COST-SAVING FACTORS IN GRINDING AND POLISHING WITH ABRASIVE BELTS 67-05 M08-68607
SURFACE ROUGHNESS AND THE ENTRAPMENT OF LUBRICANT IN METAL-WORKING 67-05 M08-68725
SELF-LUBRICATING COMPOSITES OF POROUS NICKEL AND NICKEL-CHROMIUM ALLOY IMPREGNATED WITH BARIUM FLUORIDE-CALCIUM FLUORIDE EUTECTIC 67-05 M17-68941
LUBRICANT LIFE TESTS ON BALL BEARINGS FOR SPACE APPLICATIONS 67-05 M17-68942
DRAWING OF CARBON STEEL WIRE WITH EXTREME PRESSURE LUBRICATION. PT. 2. WIRE ELONGATION CHARACTERISTICS UNDER CRITICAL PRESSURE 67-06 M07-72399
GUIDE TO SELECTION OF MATERIALS FOR BUSHINGS AND THRUST BEARINGS 67-06 M17-70724
VARIATIONS OF STRIP THICKNESS IN RELATION TO ROLLING SPEED 67-07 M07-72462

LUBRICATION

TESTING THE SUITABILITY OF BOUNDARY-ACTIVE LUBRICANTS FOR COLD WORKING 67-07 M07-72545
MODERNIZATION OF THE ANGLE SECTION MILL AT DISTRICT IRON AND STEEL COMPANY, LIMITED 67-07 M07-73087
CHOOSING LUBRICANTS FOR HOT PIERCING OF ROUND BILLETS 67-07 M07-73787
PURPOSES AND ATTRIBUTES OF METALWORKING LUBRICANTS 67-07 M08-73692
DETERMINING THE FORMABILITY OF R18 STEEL AT HIGH LOADING RATES 67-07 M08-73951
METALLIC STEARATES FOR POWDER METALLURGY 67-07 M09-73961
EQUIPMENT AND LUBRICATION USED WHEN HOT ROLLING TUBES MADE OF ALLOY AMG6 67-08 M07-75095
DRAWING COPPER WIRE WITH A LUBRICANT UNDER EXTERNALLY GENERATED PRESSURE 67-08 M07-75140
AN ATTEMPT TO REDUCE PIERCING PRESSURE WITH TRAPPED LUBRICANT 67-08 M07-75575
PROCESS KINETICS OF OIL FILTRATION THROUGH PORES OF ANTIFRICTION POWDER COMPOSITES 67-08 M09-74917
FRICTION BEARINGS WITH POWDER COMPOSITE ELEMENTS 67-08 M09-74918
TECHNIQUES AND ORGANIZATION OF THE EXPERIMENTAL PRODUCTION OF METAL-PLASTIC ANTIFRICTION STRIP FOR COMPONENTS OPERATED UNDER CONDITIONS OF DRY FRICTION 67-08 M09-75473
THE EFFECTS OF SURFACE ROUGHNESS IN THE HYDRODYNAMIC LUBRICATION THEORY OF A SHORT JOURNAL BEARING 67-08 M17-75543
RADIOTRACER METHOD FOR INVESTIGATION OF ANTIWEAR PROPERTIES OF LUBRICATING OIL ADDITIVES UNDER CONDITIONS OF ELECTRO-EROSIVE WEAR 67-08 M17-75544
LUBRICANTS FOR HOT BROACHING OF ROUND BILLETS 67-09 M07-76550
INVESTIGATION OF HIGH-SPEED COLD ROLLING OF LOW-CARBON STEEL WITH VARIOUS EMULSIONS 67-09 M07-77364
CONTROLLED STRETCH-DRAW FORMING 67-09 M07-77507
REASONS FOR THE EFFECT OF THE ROLLING SPEED ON THE COEFFICIENT OF FRICTION DURING COLD ROLLING WITH LIQUID LUBRICANTS 67-09 M07-77759
EXTRUDING INSTALLATIONS FOR THE PRODUCTION OF SEAMLESS STEEL TUBES 67-09 M07-77942
AUTOMATIC DIE LUBRICATION IN HOT AND COLD FORGING 67-09 M07-78167
THE CONTRIBUTION OF A METALLURGIST TO TRIBOLOGY 67-09 M17-77231
THE ROLE OF LUBRICANTS IN THE HOT EXTRUSION OF STEELS 67-10 M07-79725
RESISTANCE TO DEFORMATION AND DEFORMATION EFFICIENCY IN UPSETTING. PT. 1 67-10 M07-79975
DRAWING OPERATIONS ON SHEET MAGNESIUM 67-10 M08-78503
AUTOMATED WELDING SETUP SPEEDS BOMB PRODUCTION 67-10 M11-78602
THE EFFECT OF OXYGEN ON POLISHING OF STEEL 67-10 M12-79112
A FURTHER INVESTIGATION OF THE ERICHSEN TEST 67-10 M17-78502
LUBRICATION WITH ELECTRODEPOSITED FILMS OF SILVER-RHENIUM AND GOLD-MOLYBDENUM 67-10 M17-78587
YOU CAN AVOID THE HIGH COST OF HEAVY MACHINERY FAILURES 67-10 M17-78628
THE INVESTIGATION OF THE IMPORTANCE OF FRICTION IN MASSIVE DEFORMATION IN RING UPSETTING TESTS 67-10 M17-79180
INFLUENCE OF LUBRICANT ADDITIVES ON WIRE-WOOL TYPE BEARING FAILURES WITH 12 PER CENT CHROMIUM STEEL JOURNALS 67-10 M17-79578
METALWORKING 67-11 M07-80531
PREDICTING BEARING PERFORMANCE 67-11 M20-81366
LUBRICANTS FOR USE IN COPPER MOLDS IN THE CONTINUOUS CASTING OF STEEL 67-12 M04-82690
FRICTION DURING HIGH-SPEED COLD ROLLING OF METALS WITH VARIOUS LUBRICANTS 67-12 M07-81715
THE ORIGIN OF SOME SURFACE DEFECTS ON ROLLED AND DRAWN PRODUCTS 67-12 M07-83234
USE OF SYNTHETIC ALIPHATIC ACID-BASE LUBRICANTS FOR DRAWING TUBES 67-12 M07-83410
PREPARATION OF IRON AND STEEL WIRE FOR THE PRODUCTION OF SCREWS, NUTS AND FORMED COMPONENTS 67-12 M12-82443
FRICTIONAL AND WEAR RESISTANT BEHAVIOR OF A MACHINE TOOL SLIP-GUIDE 67-12 M17-82462
WEAR OF ENGINEERING MATERIALS 67-12 M17-82915
EFFECT OF ELECTRICAL CURRENTS ON BALL BEARING DAMAGE IN VACUUM AND IN AIR 67-12 M18-82990

LUBRICATION, METAL WORKING
EVALUATION OF THE EFFECTIVENESS OF LUBRICANTS IN UPSETTING ON MECHANICAL PRESSES 67-10 M07-79724

LUBRICATION, TEMPERATURE EFFECTS
GEAR MATERIAL FOR OPERATION AT 1000 F 67-08 M17-74491

LUBRICATION SYSTEMS
LUBRICATION OF A NEW 80 INCH HOT STRIP MILL 67-01 M07-57979
LUBRICATION IN THE CONTINUOUS CASTING PROCESS 67-04 M04-67752
LUBRICATION IN THE CONTINUOUS CASTING PROCESS 67-05 M04-69488

LUMINANCE
SEE BRIGHTNESS

LUMINESCENCE
SEE ALSO ELECTROLUMINESCENCE
FLUORESCENCE
PHOTOLUMINESCENCE
THERMOLUMINESCENCE
X RAY FLUORESCENCE
RECOMBINATION RADIATION OF BORON 67-01 M16-58418
LUMINESCENCE OF POWDER METAL ALLOYS 67-04 M09-66258
OPTICAL ABSORPTION, PHOTOCONDUCTIVITY, SPONTANEOUS AND STIMULATED LIGHT EMISSION INVOLVING EXCITON STATES IN CDTE 67-04 M16-66749
STUDY OF IONIZATION-INDUCED RADIATION DAMAGE IN MGO 67-06 M15-69923
LUMINESCENCE OF CDS EXCITED BY ELECTRONS OF VARIOUS ENERGIES 67-08 M16-75231
COEFFICIENTS OF BRIGHTNESS OF SINTERED ALLOYS 67-10 M09-78990
THE ROLE OF ACCEPTORS IN THE LUMINESCENCE OF N-TYPE GAAS 67-11 M15-81677

LUMINESCENCE, RADIATION EFFECTS
THRESHOLD ENERGY FOR ATOMIC DISPLACEMENT IN CADMIUM TELLURIDE 67-11 M16-80617

LUTECIUM, ALLOYING ADDITIVE
THE EFFECT OF CERTAIN RARE-EARTH SOLUTES UPON THE FCC-BCC TRANSFORMATION TEMPERATURE OF THORIUM 67-01 M14-58532

LUTECIUM, MAGNETIC PROPERTIES
MAGNETIC PROPERTIES OF SOME RARE-EARTH ALLOYS AT HIGH PRESSURES 67-05 M15-69521

LUTETIUM, INTERMETALLICS
STRENGTH OF THE S-F EXCHANGE INTERACTION IN RARE-EARTH INTERMETALLICS 67-08 M16-75006

LUTETIUM, THERMODYNAMICS
SPECIFIC HEAT OF LUTETIUM BETWEEN 3 AND 25 K 67-08 M15-74659

LUTETIUM BASE ALLOYS, CRYSTAL LATTICES
COMPOUNDS OF EUNI5, TMNI5 AND LUNI5 AND THEIR CRYSTALLINE STRUCTURES 67-09 M13-76826

MACHINABILITY
EFFECT OF HEAT TREATMENT ON MACHINABILITY OF CAST IRON 67-01 M08-57440
FREE-MACHINING ALUMINUM ALLOYS 67-01 M08-58382
STUDY ON THE MACHINABILITY OF COLD FINISHED STEEL BARS 67-01 M08-58556
MACHINING EVALUATION OF HIGH-STRENGTH MARAGING STEEL 67-01 M08-58684
MACHINING CHARACTERISTICS OF 18 PER CENT NICKEL MARAGING STEELS 67-01 M08-58685
STUDY OF THE MACHINABILITY OF SCREW STOCK STEELS BY MEANS OF RADIOACTIVE TOOLS 67-02 M08-60656
ON THE TURNING AND THE DRILLING OF LOW-PRESSURE DIE CASTINGS 67-02 M08-61028
MACHINABILITY OF STEEL WITH ADDITIONS OF SELENIUM AND LEAD 67-02 M08-61300
INVESTIGATION OF CERMET STABILITY DURING CUTTING OF POROUS IRON 67-02 M09-59614
MAGNETIC AND MECHANICAL PROPERTIES OF ANKOTI-5I ALLOYS 67-02 M15-59638
MACHINABILITY RATING 67-02 M17-60884
ON THE MACHINABILITY OF WROUGHT ALUMINUM AND ITS ALLOYS 67-02 M17-61026
THE MACHINABILITY OF ALUMINUM IN COMPARISON WITH OTHER METALS 67-02 M17-61027
CHARACTERISTICS OF BE-38 PER CENT AL SHEET 67-03 M01-65289

MACHINABILITY OF FREE CUTTING BRASSES
67-03 M08-65700
MACHINABILITY DATA FOR ALUMINUM
67-04 M08-66303
MACHINABILITY OF CAST ALLOY BASED ON THE AL-ZN-MG SYSTEM 67-04 M08-67119
SOME PROBLEMS ON THE TURNING OF ALUMINUM CAST ALLOY
67-04 M08-67120
MACHINABILITY OF ALUMINUM ALLOYS
67-04 M08-67121
BRASS MACHINABILITY--THE STORY BEHIND BLUE DOT
67-04 M08-68101
MACHINABILITY AND CORROSION RESISTANCE OF 1CR18NI12MO2TI STEELS 67-04 M18-66021
CONTINUOUS CASTING OF FREE-CUTTING STEELS
67-05 M01-69074
THE SIGNIFICANCE OF THE SPACE-AGE METALS
67-05 M08-68506
THE WORK MATERIALS 67-05 M17-68507
ALUMINUM ENGINE TECHNOLOGY--WHERE IS IT NOW
67-05 M20-68468
IMPROVED BERYLLIUM COPPER ALLOY MACHINES QUICKLY, SMOOTHLY 67-06 M08-70691
CARBIDE MACHINING OF SUPERALLOYS
67-06 M08-71484
MATERIAL AND TECHNIQUE FACTORS IN THE MACHINING OF IRON CASTINGS. PT. 1 67-06 M08-72027
GRAY IRON CASTINGS FOR MAXIMUM MACHINABILITY
67-06 M17-70856
INOCULATION OF GRAY CAST IRON. PT. 1
67-06 M17-70857
MAGNESIUM DIE CAST COMPONENTS IN OFFICE MACHINES
67-07 M06-74001
MACHINABILITY OF A FERRITIC CHROMIUM STEEL PRODUCED BY DIFFERENT FURNACE PRACTICES
67-07 M08-72680
EFFECT OF THE PEARLITIC STRUCTURE ON THE MACHINABILITY OF CEMENTED STEELS
67-07 M08-73202
COMPARATIVE INVESTIGATIONS INTO THE MACHINABILITY OF GRAPHITE-CONTAINING CAST IRON-BASE MATERIALS
67-07 M08-73247
MACHINABILITY OF COMPONENTS FROM DIFFERENT HEATS OF CK STEEL 67-07 M17-72721
NEW ZINC ALLOY FOR PROTOTYPES 67-07 M17-73960
PRESENT STATUS AND DEVELOPMENT TENDENCIES OF CAST IRON WITH SPHEROIDAL GRAPHITE
67-08 M01-75676
PROPERTIES OF COMMERCIAL CASTING ALLOYS
67-08 M06-74809
OPTIMUM CHEMICAL COMPOSITION OF SILICON BRASS FOR DIE CASTING 67-08 M06-75197
MACHINING 67-08 M08-74845
TEMPERATURE KEY TO MACHINING 67-08 M08-75530
A MEASUREMENT OF THE MACHINABILITY OF FREE-MACHINING STEELS THROUGH THE USE OF RADIOACTIVE CUTTING TOOLS 67-08 M08-75643
THE MANUFACTURE AND PROPERTIES OF MOLYBDENUM
67-08 M17-75939
WORKABLE IRON-SILICON CAST IRON AS AN ACID-RESISTANT MATERIAL FOR PROCESSING
67-09 M01-77017
MACHINING AND HEADING--SELECTION OF STAINLESS STEEL GRADES 67-09 M08-77100
MACHINABILITY OF NEW LOW-NICKEL STAINLESS STEELS
67-09 M08-77960
HOW TO AVOID PROBLEMS IN MACHINING IRON CASTINGS
67-09 M08-77984
MACHINABILITY OF STEELS. PT. 2 67-09 M08-78198
NEW CONCEPTS IN ECONOMY 67-10 M01-79753
TITANIUM CASTINGS 67-10 M06-79093
MODERN MACHINING METHODS.. A CHALLENGE TO FOUNDRY TECHNIQUES 67-10 M06-79241
DETERMINATION OF THE MACHINABILITY OF STEELS BY FACING TESTS 67-10 M08-78366
GRADES WITH IMPROVED MACHINABILITY
67-10 M08-79762
FREE-MACHINING RESULFURIZED CARBON STEELS--INVESTIGATION OF MACHINABILITY AND BRITTLENESS OF DRAWN PRODUCTS 67-10 M17-78675
ACID AND HEAT RESISTANT STAINLESS STEELS--MACHINING AND HEAT TREATMENT 67-11 M01-80390
CONTINUOUS GREY-IRON CASTING PRODUCES BETTER BARS AND SECTIONS 67-11 M04-80769
NEW PROCESS IMPROVES MACHINABILITY OF BAR STOCK
67-11 M07-80933
SOME CONSIDERATIONS ON THE BEHAVIOR OF LEAD IN THE CUTTING OF LEADED BRASS 67-11 M08-81062
ANALYSIS OF CHIP FORMATION CHARACTERISTICS OF 18 PER CENT NICKEL MARAGING STEEL
67-12 M08-82775
ECM MACHINABILITY DATA & RATINGS
67-12 M08-82911
THE USE OF CUTTING TEMPERATURE AS A MEASURE OF THE MACHINABILITY OF STEELS 67-12 M08-82948
THERMAL COEFFICIENTS. A PROPOSED MACHINABILITY INDEX 67-12 M08-82949
A SIZE OF CUT CONSTANT FOR MACHINABILITY EQUATIONS
67-12 M08-82950
A STUDY ON TAPPING WROUGHT ALUMINUM. PT. 1
67-12 M08-83109
MACHINABILITY OF MAGNESIUM ALLOY AZ 63 TURNING. STUDY ON THE MACHINING OF MAGNESIUM ALLOY. PT. 1
67-12 M08-83113
THE CRITERIA OF QUALITY IN GRAY IRON CASTINGS
67-12 M19-83223

MACHINABILITY, ALLOYING EFFECTS
ON THE TURN-MACHINABILITY OF ALUSIL
67-02 M08-59119
ON THE TURNING MACHINABILITY OF ALUMINUM-MAGNESIUM CAST ALLOYS 67-02 M08-59991
EFFECTS OF NI AND CR ON SOME PROPERTIES OF PLAIN CARBON STEEL 67-04 M17-67561
INVESTIGATION INTO 18-4-1 HIGH-SPEED TOOL STEEL CONTAINING 0.25 PER CENT SULFUR
67-07 M17-73245
EFFECTS OF ALLOYING ELEMENTS AND IMPURITIES ON PROPERTIES 67-08 M01-74807
THE DRILLING AND THE REAMING OF ALUSIL
67-08 M08-75376
EFFECT OF LEAD ON MACHINABILITY OF CEMENTED STEELS
67-08 M08-75399
QUANTITATIVE EVALUATION OF MACHINABILITY OF SOME COMMERCIAL ALUMINIUM ALLOYS 67-10 M08-78612
HOW TO UPGRADE FREE-MACHINING PROPERTIES
67-10 M08-79763
MEASURING MACHINABILITY 67-10 M08-79764
EFFECTS OF MISCH METAL ADDITIONS ON THE MACHINABILITY AND MECHANICAL PROPERTIES OF ALUMINIUM ALLOYS 67-10 M17-78606
SOME CONSIDERATIONS ON THE TURNING OF ALUMINUM-MANGANESE CAST ALLOYS 67-12 M08-81904

MACHINABILITY, COMPOSITION EFFECTS
MACHINABILITY OF COPPER AND COPPER-BASE ALLOYS
67-01 M08-58687
MACHINABILITY AND METALLURGY OF RESULFURIZED LOW-CARBON FREE-MACHINING STEELS 67-01 M08-58688
HIGH-SPEED MACHINING AND COLD HEADING OF STAINLESS STEEL 67-07 M08-74151
THE EFFECT OF OXYGEN IN RESULFURIZED STEELS. PT. 1
67-09 M04-76724

MACHINABILITY, HEATING EFFECTS
THERMAL COEFFICIENTS AS A MACHINABILITY INDEX
67-08 M08-74458

MACHINE GUNS
SEE GUNS
MACHINE TOOLS
MATERIALS USED IN THE MACHINING OF HIGHLY HEAT-RESISTANT MATERIALS IN COMBUSTION ENGINE CONSTRUCTION 67-02 M08-59619
STATUS OF THE TECHNOLOGY OF PRECISION STAMPING
67-02 M08-59810
DEVELOPMENT OF TOOLS FOR MACHINING OPERATIONS AND CURRENT STATUS OF TECHNOLOGY 67-02 M08-59975
THE WORK MATERIALS 67-05 M17-68507
MACHINING LIGHTWEIGHT DIE CASTINGS ON A DIAL MACHINE 67-06 M08-69956
THREAD-FORMING BY NONCUTTING OR SCRAPLESS DEFORMATION. PT. 2 67-06 M08-70556
THE CHIP-FORMING FINISHING OF COLD DEFORMED WORKPIECES 67-06 M08-71208
MACHINE TOOLS FOR UPSETTING AND HEADING
67-08 M08-75762
AN ANALYSIS OF THE DEVELOPMENT OF CARBIDE TOOL CRATER WEAR 67-09 M08-78106
PREPARED ATMOSPHERE QUENCHING OF HIGH-SPEED STEELS AND HIGH-CARBIDE HIGH-SPEED STEELS WITHOUT DEFORMATION 67-09 M10-77833
HARD FACING IMPROVES LIFE OF PRESS TOOLS
67-10 M08-79403

MACHINE TOOLS, CLEANING
SHOT-BLASTING PLANT FOR MACHINE TOOL CASTINGS
67-07 M12-73336

MACHINE TOOLS, COATING
LATEST DEVELOPMENTS IN ZINC-RICH PAINTS
67-03 M12-65627
THE CONTRIBUTION OF PLASMA SPRAYING TECHNIQUES TO THE PROTECTION AGAINST WEAR OF TOOLS

67-07 M12-74160

MACHINE TOOLS, GRINDING
AN EVALUATION OF THE ELECTROLYTIC GRINDING OF TUNGSTEN CARBIDE. PT. 2 67-10 M08-79402
MACHINE TOOLS, MECHANICAL PROPERTIES
POSSIBILITIES OF ERRORS AND FLAWS IN THE HEAT TREATMENT OF TOOLS 67-09 M19-76721
THE WEAR RESISTANCE OF MACHINE TOOLS UNDER VARIOUS CUTTING CONDITIONS 67-12 M08-82463
MACHINE TOOLS, MICROSTRUCTURE
PROBLEMS OF STRESS-RELIEF TEMPERING OF GRAY IRON MACHINE TOOL BEDS 67-05 M10-69348
MACHINE TOOLS, SPECIFICATIONS
RESEARCH, DEVELOPMENT AND APPLICATIONS OF MACHINE TOOLS. PT. 4 67-09 M20-76687
MACHINING
SEE ALSO ABRASIVE MACHINING
BELT GRINDING
BORING
BROACHING
CENTERLESS GRINDING
CHEMICAL MACHINING
CHEMICAL MILLING
CONTOUR MILLING
CORING
COUNTERSINKING
CYLINDRICAL GRINDING
DEBURRING
DRILLING
ELECTRIC DISCHARGE GRINDING
ELECTROCHEMICAL MACHINING
ELECTROEROSION /MACHINING/
ELECTROLYTIC GRINDING
ELECTRON BEAM MACHINING
FACE MILLING
GEAR CUTTING
GEAR GRINDING
GEAR HOBBING
GEAR MACHINING
GRINDING
GROOVING
GUN DRILLING
HOT MACHINING
MILLING /MACHINING/
PLANING
PROFILE GRINDING
REAMING
ROTARY DRILLING
ROUGH GRINDING
ROUTING /MACHINING/
SAWING
SLOT GRINDING
SLOT MILLING
SPARK MACHINING
SPOT FACING
SURFACE GRINDING
TAPPING /THREADS/
THREAD CUTTING
TREPANNING
TURNING /MACHINING/
ULTRASONIC MACHINING
TRACER TURNS THINWALL PARTS 67-01 M08-57231
HIGH-SPEED MACHINING CENTER HANDLES KING-SIZE PARTS 67-01 M08-57436
USE MILL KNOW-HOW IN MACHINING STAINLESS 67-01 M08-57951
HOW HEAT AFFECTS TOOL WEAR 67-01 M08-58509
CUTTING FLUID APPLICATIONS--HOW IT CAN IMPROVE YOUR MACHINING DOLLAR 67-01 M08-58550
MACHINING CAST NODULAR-IRON CRANKSHAFTS 67-01 M08-58570
ALUMINUM AND ALUMINUM ALLOYS IN SHEET, PLATE AND TUBE FORM 67-01 M17-58306
CUTTING FORCE CHARACTERISTICS AT HIGH CUTTING RATES 67-02 M08-60222
MACHINING TESTS WITH SINTERED MOLYBDENUM USING TURNING AND DRILLING OPERATIONS 67-02 M08-60223
THE SOLID STATE--REHBINDER EFFECT IN LUBRICATED METAL CURRING 67-02 M08-60882
MACHINING DAMAGE STUDIES IN BERYLLIUM 67-03 M08-65294
TOOL SELECTION FOR TOUGH ALLOYS 67-03 M08-65492
HOW RELIABLE IS MACHINABILITY DATA 67-03 M08-65566
HIGH TEMPERATURE METALS 67-03 M08-65864
BERYLLIUM AS A TECHNOLOGICAL MATERIAL 67-03 M17-65273
THE EFFECT OF TEST BAR VARIABLES ON THE TENSILE PROPERTIES OF MAGNESIUM CASTING ALLOYS 67-03 M17-65318
CUTTING FLUIDS TAME TITANIUM 67-04 M08-66301
DIAMONDS IN INDUSTRY 67-04 M08-67495
LONG TUBES, LONG PARTS--HEIL CUTS CYLINDER COSTS 67-04 M08-68102
MACHINING OF ALUMINIUM 67-05 M08-68500
DIAMOND TOOLS ARE TRADITIONAL FOR MACHINING ALUMINIUM ALLOY ENGINE PISTONS 67-05 M08-68803
THE IMPORTANCE OF PURITY IN PROCESSING TUNGSTEN CARBIDE 67-05 M08-68804
ROCKET WARHEADS PROVIDE NEW WORK FOR ONTARIO PLANT 67-05 M08-68805
UNIT PRESSURE--KEY TO SUCCESS IN STAINLESS 67-05 M08-69021
HOW TO MACHINE CAST HIGH ALLOYS 67-05 M08-69590
THE AUTOGENOUS TECHNIQUES-INCREASING APPLICATION TO REINFORCING CONCRETE CONSTRUCTION 67-05 M20-69350
THE THERMAL GAP IN MICROINCH MEASUREMENT AND MACHINING 67-06 M08-69957
CERAMIC TOOLS--TODAY AND TOMORROW 67-06 M08-70567
CUTTING FLUID ADDITIVES TAME TITANIUM 67-06 M08-71206
THE CHIP-FORMING FINISHING OF COLD DEFORMED WORKPIECES 67-06 M08-71208
SYSTEMATIC APPROACHES TO MACHINING DATA FOR AEROSPACE ALLOYS 67-06 M08-71482
COMPARATIVE STUDY OF TOOL WEAR AND THE ROUGHNESS OF THE MACHINED SURFACE. PT. 3 67-06 M08-71806
THE INFLUENCE OF DIFFERENT MACHINING PROCESSES ON THE MECHANICAL AND CORROSION-CHEMICAL BEHAVIOR OF A HEAT TREATED STEEL 67-06 M17-71507
CARBIDES FOR SCREW MACHINES--TESTS ON FREE-CUTTING STEELS. PT. 2 67-07 M08-72744
EFFECTIVE UTILIZATION OF POINT-TO-POINT NUMERICAL CONTROL 67-07 M08-72985
PURPOSES AND ATTRIBUTES OF METALWORKING LUBRICANTS 67-07 M05-73692
MACHINING MOLY DIECASTING DIES 67-07 M08-73857
MATERIAL AND TECHNIQUE FACTORS IN THE MACHINING OF IRON CASTINGS. PT. 2. 67-07 M08-74255
MACHINING 67-08 M08-74845
CONTRIBUTION TO THE MECHANICS OF MACHINING 67-08 M08-75571
MACHINING SCIENCE AND APPLICATION 67-08 M08-75706
MACHINING OF GRAPHITE 67-08 M08-75799
EXPANDING P/M PARTS APPLICATIONS THROUGH SECONDARY MACHINING 67-08 M09-75387
ON THE POSSIBILITY OF IMPROVING THE MACHINING OF CERMET BUSHINGS 67-09 M08-76919
MACHINING DATA FOR 18 PER CENT NICKEL MARAGING STEEL 67-09 M08-77495
FLOW STRESS CHARACTERISTICS AND THE MACHINING PROCESS 67-09 M08-77557
MACHINING HIGH STRENGTH MATERIALS 67-09 M08-78018
MACHINING ALCOA ALUMINUM 67-09 M08-78186
THE RELATIONSHIP BETWEEN CUTTING GEOMETRY, TOOL WEAR AND SURFACE QUALITY IN THE PEELING OF STEEL BARS WITH CARBIDE TOOLS. PT. 1 67-09 M08-78280
RELATIONSHIP BETWEEN CUTTING GEOMETRY, TOOL WEAR AND SURFACE QUALITY IN THE PEELING OF STEEL BARS WITH CARBIDE TOOLS. PT. 3. EFFECT OF PEELING AND STRAIGHTENING CONDITIONS ON THE SURFACE OF BRIGHT BARS.. RELATIONSHIP BETWEEN TOOL WEAR AND SURFACE QUALITY 67-09 M08-78282
QUALITY OF MACHINED SURFACE OF POROUS BRONZE-GRAPHITE COMPOSITE 67-10 M08-79348
CARBIDE TOOL SELECTION--A DECISION IN ECONOMICS 67-10 M08-79509
THE ECONOMICS OF COLLECTING AND APPLYING MACHINING DATA TO CARBIDE TOOLS--AN ENGINEERING APPROACH 67-10 M08-79510
MACHINING HIGH STRENGTH STEELS AND THERMAL RESISTANT ALLOYS 67-10 M08-79516
MAGNESIUM--A LIGHT VERSATILE METAL FOR TOOLING 67-10 M08-79521
BASIC INVESTIGATION OF BUILT-UP EDGE 67-10 M08-79880
CARBIDE GRADE SELECTION 67-10 M17-79508
THERMAL COEFFICIENTS AS A MACHINABILITY INDEX 67-11 M08-80539

RESEARCH ON SWARF REMOVAL SYSTEMS
67-11 M08-81487
THE DEPENDENCE OF TOOL WEAR ON CUTTING CONDITIONS CHIP-FORMING MACHINING 67-11 M08-81530
THE EFFECT OF THE TITANIUM CARBIDE CONTENT OF CEMENTED WC-TIC CUTTING TOOLS IN THE MACHINING OF STEELS AND CAST IRONS 67-12 M08-81854
EFFICIENT METHODS OF MACHINING NONMAGNETIC MATERIALS 67-12 M08-81995
ADVANCED MACHINING TECHNOLOGY 67-12 M08-82645
MACHINING MAGNESIUM DIE CASTINGS
67-12 M08-82704
PRODUCIBILITY ASPECTS OF AEROSPACE PRODUCTS WITH REGARD TO MACHINABILITY 67-12 M08-82889
THE RELATIONSHIP BETWEEN CUTTING FORCE, CHIP FORMATION AND TEMPERATURE IN TURNING WITH HIGH-SPEED TOOL STEELS 67-12 M08-82933
A STUDY OF THE EFFECT OF CUTTING FLUIDS ON THE METAL-CUTTING PROCESS 67-12 M08-82946
RECENT DEVELOPMENTS IN PLASMA ARC MACHINING
67-12 M08-82951
URANIUM MACHINING 67-12 M08-82952
DYNAMIC CHIP BREAKING. CAN IT OVERCOME THE SURFACE FINISH PROBLEM 67-12 M08-82953
MACHINING--NEW TRENDS IN OLD TECHNIQUES
67-12 M08-83134
TITANIUM CARBIDE OPENS NEW ERA IN CUTTING TOOLS
67-12 M17-82648
DEVELOPMENT OF ADVANCED CERAMIC CUTTING TOOLS
67-12 M17-82947

MACHINING, AUTOMATION
MACHINING CLOSE TOLERANCE CASTINGS ON A CHUCKING AUTOMATIC 67-07 M08-72986

MACROFRACTOGRAPHY
SEE FRACTOGRAPHY

MACROSTRUCTURE
ON THE EXISTENCE OF A DENDRITE SHOWER
67-04 M13-67536
QUALITY OF STEEL FROM CONTINUOUSLY CAST BILLETS. PT. 1. THE QUALITY OF HIGH-CARBON STEEL WIRE ROD ROLLED FROM BILLETS CONTINUOUSLY CAST FROM BASIC OXYGEN LD STEEL 67-05 M01-68732
ON THE FORMATION OF STRING GHOST IN KILLED STEEL INGOT 67-05 M04-69709
FORMATION OF CRYSTAL STRUCTURES IN PURE AL
67-05 M06-68887
INTERNAL SOUNDNESS OF CONTINUOUSLY-CAST BILLETS
67-06 M13-72278
INFLUENCE OF MELTING UNDER VACUUM ON THE PROPERTIES OF FERRITIC HIGH-TEMPERATURE STEEL
67-09 M04-77222
HOW ELECTROMAGNETIC STIRRING OF SOLIDIFYING METAL AFFECTS THE CHEMICAL HETEROGENEITY AND MACROSTRUCTURE OF THE INGOT 67-11 M04-81410
MICROSCOPIC STUDY OF THE CHANGE IN THE MINERAL COMPOSITIONS OF SLAGS DURING BOILING OF STAINLESS STEEL IN THE COURSE OF MELTING
67-11 M13-81463
MACROSEGREGATION. PT. 1 67-12 M06-82766

MACROSTRUCTURE, ALLOYING EFFECTS
EFFECT OF CERIUM ON STRUCTURE AND PROPERTIES OF OKH23N18 STEEL 67-05 M13-68557
STUDY ON MACROSTRUCTURE OF AL ALLOY
67-05 M13-68884
EFFECTS OF RARE ELEMENTS ON THE PROPERTIES OF AL10V ALLOY 67-06 M17-70096
EFFECT OF CERIUM ON STRUCTURE AND PROPERTIES OF OKH23N18 STEEL 67-07 M13-72468

MACROSTRUCTURE, NONDESTRUCTIVE TESTING
ULTRASOUND INSPECTION OF MACROSTRUCTURE
67-12 M19-82308

MAGNAFLUX INSPECTION
SEE MAGNETIC PARTICLE TESTING

MAGNESIA
SEE MAGNESIUM OXIDE

MAGNESITE CHROME REFRACTORIES
SEE CHROMITE REFRACTORIES
MAGNESITE REFRACTORIES

MAGNESITE REFRACTORIES
CHANGES DURING SERVICE IN BASIC REFRACTORIES IN CHANNEL INDUCTION FURNACES MELTING NICKEL
67-04 M05-67845
THE EFFECT OF CARBON IN TAR-IMPREGNATED BURNT MAGNESITE BRICK ON THE WEAR OF BASIC OXYGEN FURNACE LININGS 67-07 M04-72710
TAR-DOLOMITE-MAGNESITE BRICK BASED ON DOLOMITE FROM THE ALEKSEEV SITE 67-07 M05-72608

MAGNESITE REFRACTORIES, FURNACE LINERS
LINING LIFE FOR CONVERTERS TREATING HIGH-METALLIZED COPPER-NICKEL MATTES
67-07 M03-72791

MAGNESITE REFRACTORIES, GUNNITING
JET GUNNITING OF BASIC REFRACTORIES
67-07 M05-72612

MAGNESITE REFRACTORIES, LIFE
PROLONGING LINING LIFE IN AN LD VESSEL
67-06 M05-71951

MAGNESITE REFRACTORIES, LINERS
FAILURE MECHANISM OF PERICLASESPINEL AND CHROMITE-MAGNESITE LININGS IN OXYGEN CONVERTERS
67-06 M05-70564

MAGNESITE REFRACTORIES, MECHANICAL PROPERTIES
TECHNIQUE FOR MICROSCOPIC OBSERVATION OF CRACK PROPAGATION 67-04 M17-67735
WEAR IN MAGNESITE-CHROMITE STOPPER TUBES IN VACUUM DEGASSING OF TRANSFORMER STEEL
67-05 M04-69308
EFFECT OF THE SILICATE CONSTITUTION OF MAGNESITE BRICKS ON THE HIGH-TEMPERATURE STRENGTH
67-06 M17-70604
FACTORS AFFECTING THE WEAR RATE OF THE REFRACTORY LINING OF LD CRUCIBLES 67-07 M04-73117

MAGNESITE REFRACTORIES, PHASES /STATE OF MATTER/
CURRENT REFRACTORIES RESEARCH AND ITS APPLICATIONS
67-03 M04-65932

MAGNESITE REFRACTORIES, PHYSICAL PROPERTIES
DIRECT BONDED BRICK IN OPEN HEARTH FURNACES
67-11 M04-80110

MAGNESITE REFRACTORIES, REACTIONS /CHEMICAL/
THE EFFECTS OF THE REFRACTORY LINING ON METALLURGICAL REACTIONS IN CORELESS INDUCTION FURNACES 67-05 M04-69323

MAGNESITE REFRACTORIES, SERVICE TIME
REFRACTORY GUNNING OF BASIC OXYGEN FURNACES
67-11 M04-80115

MAGNESITE REFRACTORIES, SINTERING
INTENSIFYING THE SINTERING OF NATURAL AND CAUSTIC MAGNESITE BY THERMAL ACTIVATION
67-03 M05-65911

MAGNESITE REFRACTORIES, STEEL MAKING
CHANGE IN CHEMICAL MINERALOGICAL COMPOSITION OF TAR-BONDED MAGNESIA REFRACTORIES IN OXYGEN CONVERTERS 67-10 M05-79817

MAGNESITE REFRACTORIES, SWELLING
SWELLING OF CHROMITE-CONTAINING REFRACTORIES
67-07 M05-72618

MAGNESITE REFRACTORIES, THERMAL PROPERTIES
RESISTANCE OF REFRACTORIES IN HEAVY-AND MEDIUM-DUTY FURNACES WITH COMBINED USE OF OXYGEN
67-08 M05-74888

MAGNESITE REFRACTORIES, WEAR
DISINTEGRATION OF MAGNESIA REFRACTORIES IN CONVERTER MELTING OF COPPER 67-03 M05-65301
SUITABLE GRAIN COMPOSITION OF MAGNESITE POWDER FOR HEARTHS OF OPENHEARTH FURNACES OPERATING BY COMBINATION PROCESSES 67-07 M05-72610

MAGNESIUM
PRINCIPLES OF MAGNESIUM TECHNOLOGY
67-02 M01-60901
STRESS FIELDS AROUND THE EDGE DIPOLE IN CD, ZN AND MG ANISOTROPIC CRYSTALS 67-09 M13-77516

MAGNESIUM, ALLOYING ADDITIVE
TREATING NICKEL MELTS WITH ADDITIONS OF MAGNESIUM, CERIUM AND ZIRCONIUM 67-01 M17-57283
STUDIES OF THE SIMULTANEOUS ADDITION OF MAGNESIUM AND RARE EARTH ALLOYS ON THE MANUFACTURE OF NODULAR GRAPHITE CAST IRON 67-02 M06-60148
MANUFACTURE OF SPHEROIDAL GRAPHITE CAST IRON WITH MG AND RARE-EARTH MIXED AGENT
67-02 M06-60754
ELIMINATION OF CHILLING IN THINWALLED MAGNESIUM-TREATED IRON CASTINGS 67-02 M06-61007
MECHANISM OF DENODULARIZER ACTION IN MAGNESIUM-TREATED CAST IRON 67-02 M06-61012
EXPLORATORY EXPERIMENT ON FEASIBILITY OF MAKING A TI-MG ALLOY UNDER HIGH PRESSURE
67-02 M13-59442
SOLUTE-VACANCY INTERACTION ENERGIES AND THE EFFECT OF 0.009 AT. PER CENT MG ON THE AGING KINETICS OF AN A1-4.01 AT. PER CENT ZN ALLOY
67-02 M14-58945
HALL COEFFICIENT OF ALUMINUM RICH ALLOYS
67-02 M15-59059
PROBLEMS OF CORROSION OF BERYLLIUM IN CARBON DIOXIDE UNDER PRESSURE AT HIGH TEMPERATURES
67-03 M18-65259
THE INFLUENCE OF ALLOYING ELEMENTS ON ALUMINUM ANODES IN SEA WATER 67-03 M18-65473

MAGNESIUM

STUDIES ON GRAPHITIZATION OF CONVENTIONALLY AND ISOTHERMALLY ANNEALED WHITE CAST IRONS 67-05 M14-69878
EFFECT OF CERTAIN ELEMENTS ON THE FORM OF GRAPHITE IN CAST IRON 67-05 M14-69880
INFLUENCE OF MG ON THE RECOVERY OF AL IRRADIATED WITH FAST NEUTRONS AT 78 K 67-05 M15-69336
DUCTILE IRON--A PERIOD OF ADJUSTMENT 67-06 M06-71050
APPLICATION OF HIGH-PURITY AL IN THE DEVELOPMENT OF HIGH-STRENGTH AL-ZN-MG-CU ALLOYS 67-06 M17-71979
THE MAGNESIUM INJECTION PROCESS FOR DUCTILE IRON 67-07 M06-73079
USING UNALLOYED MAGNESIUM IN DUCTILE IRON PRODUCTION 67-09 M06-76523
THE ANNEALING OF QUENCHED-IN VACANCIES IN DILUTE ALUMINIUM ALLOYS 67-11 M10-80302
EFFECT OF SIMULTANEOUS ADDITIONS OF MAGNESIUM AND RARE EARTH ALLOY ON THE MANUFACTURING OF NODULAR GRAPHITE CAST IRON 67-12 M04-82824
EFFECT OF CHLORIDE SALTS OF ALKALI AND ALKALI-EARTH ELEMENTS ON THE PROPERTIES OF 15KH1M1FL STEEL ELEMENTS ON THE PROPERTIES 67-12 M04-83028
THE INFLUENCE OF A DILUTE MAGNESIUM ADDITION ON THE GROWTH AND SHRINKAGE OF DISLOCATION LOOPS IN ALUMINIUM 67-12 M13-82540
MAGNETIC ANALYSIS OF DILUTE BINARY ALLOYS OF COPPER, ZINC, AND MAGNESIUM IN ALUMINUM 67-12 M15-82966
SAP-TYPE ALLOYS SOLID SOLUTION STRENGTHENED WITH MAGNESIUM 67-12 M17-83048

MAGNESIUM, ATOMIC PROPERTIES
COMMENTS ON PAPERS RESULTING FROM HUME-ROTHERYS NOTE-1965 67-06 M16-71970
THE ABSOLUTE X-RAY SCATTERING FACTOR OF MAGNESIUM 67-10 M16-78912

MAGNESIUM, BENEFICIATION
INDUSTRIAL TESTS ON THE INTENSIFICATION OF MAGNESIUM ELECTROLYZERS WITH SIDE ANODE SUPPLY 67-04 M03-66972
BENEFICIATION OF A POLISH CARNALLITE--DEVELOPMENT OF A FLOWSHEET 67-08 M02-76060

MAGNESIUM, BINARY SYSTEMS
STUDY OF THE MANGANESE-BORON SYSTEM 67-01 M13-58058
EFFECT OF THE STRUCTURE OF AN INTERMETALLIC COMPOUND ON THE THERMODYNAMIC PROPERTIES OF METALLIC SYSTEMS 67-04 M13-66013
PRACTICE OF THERMODYNAMIC ANALYSIS OF BINARY SYSTEMS OF METALS WITH INTERMETALLIC BONDS 67-04 M13-67451
STUDY OF PHASE DIAGRAMS IN BINARY SYSTEMS BASED ON ISOACTIVITIES 67-04 M13-67849
STUDY OF THE MG2SN-MG2SI SYSTEM 67-04 M13-67939
ANELASTICITY MEASUREMENTS IN THE MG-CD ALLOY SYSTEM 67-04 M17-66535
STUDY OF THE LIQUIDUS RELATIONS IN EQUILIBRIUM DIAGRAMS FOR PHASES WITH A DEFINITE COMPOSITION APPLICATION TO THE ESTIMATION OF THE LATENT HEAT OF FUSION 67-12 M13-82697
THERMODYNAMIC PROPERTIES OF SOLID MAGNESIUM-NICKEL ALLOYS 67-12 M15-82420
THERMODYNAMICS OF FORMATION OF BINARY RARE EARTH-MAGNESIUM PHASES WITH CSCL-TYPE STRUCTURES 67-12 M15-82848
THERMODYNAMIC PROPERTIES OF LIQUID MAGNESIUM-SILICON ALLOYS. DISCUSSION OF THE MG-GROUP IVB SYSTEMS 67-12 M15-82850

MAGNESIUM, BONDING
ADHESIVE BONDING DIE CASTINGS 67-02 M11-60994

MAGNESIUM, BRAZING
FOR ALUMINUM OR MAGNESIUM...NEW PROCESS FEATURES CLOSE CONTROL OF BRAZING HEAT 67-04 M11-66242

MAGNESIUM, CASTING
CONTINUOUS CASTING OF NON-FERROUS METAL BILLETS AND SLABS. PT. 1 67-02 M03-61644
MAGNESIUM PRESSURE DIE CAST PARTS IN MOTOR VEHICLES 67-02 M06-59725
COLD CHAMBER DIE CASTING MACHINES GET AUTOMATIC METAL POURING 67-02 M06-61091
TRENDS IN DIECASTING 67-04 M06-68114
THE FUNDAMENTALS OF THE DIE CASTING OF MG 67-05 M06-68599
INVESTIGATION OF CONVEYOR CASTING OF MAGNESIUM 67-06 M03-71306
MAGNESIUM DIE CAST COMPONENTS IN OFFICE MACHINES 67-07 M06-74001
PILOT CANOPY FRAME CASTING CUTS COSTS OVER 50 PER CENT 67-10 M06-78774

MAGNESIUM, CASTINGS
LIGHT METAL PRESSURE DIE CASTINGS IN EUROPEAN MOTOR VEHICLES 67-10 M20-78763

MAGNESIUM, CHEMICAL ANALYSIS
MICROANALYSIS OF OXYGEN BY A RADIOACTIVE REAGENT 67-03 M19-65252
STATE OF MAGNESIUM IN MOLTEN CAST IRON 67-10 M06-78891

MAGNESIUM, CLEANING
CHEMICAL DERUSTING IN THE PRODUCTION LINE 67-12 M12-82131

MAGNESIUM, COATING
NEW PROTECTIVE COATING FOR NON-FERROUS METALS 67-02 M18-61094
MULTI-DUTY COATING FOR NONFERROUS METALS 67-06 M12-70226
DEVELOPMENTS AND TENDENCIES IN PRECIOUS-METAL ELECTROPLATING. PT. 4 67-07 M12-73820
TWO PAGES OF REPRODUCIBLE DATA TABLES--PROTECTIVE FINISHES 67-08 M12-74602

MAGNESIUM, COATINGS
CONDENSATION OF MAGNESIUM VAPOR FROM A MIXTURE WITH HELIUM 67-11 M12-81214

MAGNESIUM, CORROSION
ANODIC DISINTEGRATION OF METALS UNDERGOING ELECTROLYSIS IN AQUEOUS SALT SOLUTIONS 67-05 M18-69475
THE ANODIC DISSOLUTION OF DEFORMED MG IN H2SO4 67-07 M18-72764
MAGNESIUM CORROSION PROBLEMS 67-10 M18-78461
ON USING EXOELECTRON EMISSION AND ELLIPSOMETRY FOR INVESTIGATING INHIBITORS AND STIMULATORS OF ATMOSPHERIC CORROSION OF METALS 67-12 M18-82305

MAGNESIUM, CORROSION RESISTANCE
EFFECT OF TITANIUM ON CORROSION RESISTANCE OF MAGNESIUM 67-07 M18-73659

MAGNESIUM, CRYSTAL DEFECTS
THE THEORY OF STACKING-FAULT ENERGIES IN CLOSE-PACKED METALS 67-05 M13-68759

MAGNESIUM, CRYSTAL LATTICES
CALCULATION OF CLEAVAGE CHARACTERISTICS OF HEXAGONAL-CLOSE-PACKED CRYSTALS 67-01 M13-58456
X-RAY STUDY OF COLD-WORKED MAGNESIUM 67-06 M13-71661
THE DEPENDENCE OF THE CALCULATED ELASTIC CONSTANTS ON THE C..A RATIO FOR HEXAGONAL CLOSE-PACKED STRUCTURE METALS 67-06 M17-71498
ORIENTATION DEPENDENCE OF DISLOCATION DAMPING IN MAGNESIUM SINGLE CRYSTALS 67-07 M17-72659
NONCENTRAL FORCE MODEL FOR HEXAGONAL CLOSE-PACKED CRYSTAL LATTICES 67-08 M13-75229
THE ACTIVATION PARAMETERS FOR DISLOCATION GLIDE 67-10 M14-78910

MAGNESIUM, DIFFUSION
DIFFUSION OF IRON IN SOME MOLTEN NONFERROUS METALS 67-01 M14-57515
EXAMINATION OF THE DIFFUSION OF BERYLLIUM IN MAGNESIUM BY LOCAL SPECTRAL ANALYSIS 67-05 M14-69621
DIFFUSION MECHANISMS IN ORDERED BODY-CENTERED CUBIC ALLOYS 67-11 M14-81590

MAGNESIUM, DISLOCATIONS
ELECTRON MICROSCOPIC OBSERVATION ON THE INTERACTION BETWEEN OXIDE PARTICLES AND DISLOCATIONS IN ALUMINUM AND MAGNESIUM 67-02 M13-60155

MAGNESIUM, ELASTIC CONSTANTS
CALCULATION OF THE BINDING ENERGY AND ELASTIC MODULI OF MG 67-05 M15-68406

MAGNESIUM, ELECTROLYSIS
EFFECT OF IMPURITIES ON THE ELECTROLYSIS PROCESS FOR MAGNESIUM CHLORIDE AND CARNALLITE 67-02 M03-60960
DEVELOPMENT AND TEST OF MECHANIZED MAGNESIUM ELECTROLYZERS WITH UPPER LEAD-IN OF ANODES 67-02 M03-62052
THERMODYNAMIC PROPERTIES OF MGCL2 IN CHLORIDE MELTS 67-03 M03-65580
STARTING UP MAGNESIUM ELECTROLYZERS AT A FULL LEVEL OF ELECTROLYTE 67-05 M03-68230

MAGNESIUM, EXTRACTION
EFFECT OF SILICA IMPURITIES ON THE ELECTROLYSIS OF MAGNESIUM CHLORIDE AND CARNALLITE 67-02 M03-60567
THE STATE OF MAGNESIUM IN LIQUID IRON

67-02 M06-59182
EFFECT OF PETROLEUM COKE AND WATER VAPOR IN CHLORINATION OF HYDROLYSIS PRODUCTS OF MELTED CARNALLITE 67-06 M03-72117
AN ECONOMIC AND TECHNICAL EVALUATION OF MAGNESIUM PRODUCTION METHODS. PT. 2. CARBOTHERMIC 67-07 M03-74199
SOME ASPECTS OF MAGNESIUM PRODUCTION BY ELECTROLYTIC PROCESS ON A PILOT PLANT SCALE 67-08 M03-74385
INFLUENCE OF TI IMPURITIES IN ROW MATERIAL ON CURRENT EFFICIENCY DURING ELECTROLYSIS OF MAGNESIUM 67-08 M03-76242
OBTAINING MAGNESIUM METAL 67-09 M03-76866
PRODUCTION OF ALKALINE METALS AND MAGNESIUM BY REFINING LIQUID BASIC PIG IRON OUTSIDE THE BLAST FURNACE 67-09 M03-77048
REVIEW OF ELECTROLYTIC AND THERMAL REDUCTION METHODS--THE PRESENT INDUSTRIAL USE FOR MANUFACTURE AND APPLICATIONS OF MAGNESIUM 67-12 M03-81961

MAGNESIUM, EXTRUSION
EXTRUSION AND FORMING UNDER HIGH FLUID PRESSURES 67-01 M07-58672

MAGNESIUM, FERMI SURFACE
FERMI SURFACE OF MAGNESIUM. PT. 1. MAGNETOACOUSTIC ATTENUATION 67-08 M16-74663

MAGNESIUM, FIBER METALLURGY
MICROSTRAIN BEHAVIOR OF METAL MATRIX COMPOSITES 67-11 M17-81129

MAGNESIUM, HARDENING
WORK SOFTENING INDUCED YIELDING IN MAGNESIUM; SINGLE CRYSTALS 67-06 M17-70792

MAGNESIUM, HEAT TREATMENT
THE DISTRIBUTION OF BE AND THE GRAIN SIZE IN MG-AL ALLOYS CONTAINING BE 67-05 M06-68865

MAGNESIUM, INTERMETALLICS
TEMPERATURE AND STRAIN-RATE DEPENDENCE OF THE FLOW STRESS OF AGMG SINGLE CRYSTALS 67-01 M17-57110
NATURE OF THE ORDER-DISORDER TRANSFORMATION IN THE ALLOY MG3CD 67-02 M14-61922
THE ELASTIC CONSTANTS OF MGAG AND MGCU2 SINGLE CRYSTALS 67-05 M17-69575
ELASTIC CONSTANTS AND CALCULATED LATTICE VIBRATION FREQUENCIES OF MG2SN 67-05 M17-69576
THE CRYSTAL STRUCTURE OF CE5MG42 67-06 M13-71404
GROWING MGZN2 SINGLE CRYSTALS FROM THE VAPOR PHASE 67-07 M14-72451
TEMPERATURE-DEPENDENT VARIATIONS OF THE EQUILIBRIUM ORDER PARAMETER OF THE HEXAGONAL LONG-RANGE ORDERED PHASE 1 IN THE CADMIUM-MAGNESIUM ALLOY OF STOICHIOMETRIC COMPOSITION, CDMG3 67-11 M14-81563

MAGNESIUM, LIQUID METALS
THERMODYNAMICS OF DILUTE SOLUTIONS OF PLUTONIUM IN LIQUID MAGNESIUM 67-01 M15-57405
WAVE NUMBER-DEPENDENT ELASTIC MODULI IN LIQUID METALS 67-10 M16-78444

MAGNESIUM, MACHINING
TOUGH, TEMPERAMENTAL TITANIUM TAMED 67-05 M08-68421
MAGNESIUM--A LIGHT VERSATILE METAL FOR TOOLING 67-10 M08-79521
MACHINING MAGNESIUM DIE CASTINGS 67-12 M08-82704

MAGNESIUM, MAGNETIC PROPERTIES
THEORY OF THE GALVANOMAGNETIC PROPERTIES OF MAGNESIUM AND ZINC 67-02 M15-60766
INVESTIGATION OF THE DEPENDENCE OF CERTAIN PROPERTIES OF MAGNESIUM AND MANGANESE FERRITES ON THEIR COMPOSITION 67-10 M15-79457

MAGNESIUM, MECHANICAL PROPERTIES
THE GROWTH OF GRAIN BOUNDARY CAVITIES DURING HIGH TEMPERATURE FATIGUE 67-01 M17-57483
EFFECT OF TEMPERATURE ON THE MECHANISM OF PLASTIC DEFORMATION OF MAGNESIUM AND MAGNESIUM ALLOY WITH 3 PER CENT NEODYMIUM 67-01 M17-58083
MAGNESIUM TOOLING--ALL SIGNS SAY GO 67-01 M20-57234
SHARP YIELDING DUE TO WORK SOFTENING OF DYNAMICALLY PRESTRAINED SINGLE CRYSTALS OF MAGNESIUM 67-02 M17-60159
ON THE DUCTILITY CRITERION IN PRESSURE DEFORMATION OF METALS 67-02 M17-60735
THE MACHINABILITY OF ALUMINUM IN COMPARISON WITH OTHER METALS 67-02 M17-61027
CONTRIBUTION TO THE STUDY OF MAGNESIUM, ZIRCONIUM, BERYLLIUM AND ZINC BEHAVIOR DURING ALTERNATIVE PLASTIC DEFORMATIONS 67-03 M17-65554
BACKGROUND INTERNAL FRICTION OF SOME PURE METALS AT LOW FREQUENCIES 67-03 M17-65881
TEXTURE STRENGTHENING 67-05 M17-68669
PLASTICITY OF DEFORMED MAGNESIUM 67-05 M17-69268
APPLICATION OF ANISOTROPIC ELASTICITY THEORY TO THE CHOICE OF PRIMARY SLIP SYSTEMS IN HCP METAL CRYSTALS 67-06 M17-71277
WORK HARDENING IN EASY GLIDE 67-07 M17-73059
COMPRESSIVE DEFORMATION AFFECTED BY SUPERIMPOSED ULTRASONIC VIBRATION 67-08 M17-74411

MAGNESIUM, MELTING
INDUCTION MELTING IN THE FOUNDRY 67-06 M06-71598
MELTING MAGNESIUM CHIPS AND MAGNESIUM ALLOYS WITH FL5 FLUX 67-07 M03-73421

MAGNESIUM, METAL WORKING
HOT DEEP DRAWING--B&P EXPERIENCE 67-03 M07-65036
MAGNETISM TAMED FOR FORMING 67-07 M07-73693
DRAWING OPERATIONS ON SHEET MAGNESIUM 67-10 M08-78503

MAGNESIUM, MICROSTRUCTURE
GRAIN-BOUNDARY SLIDING IN METALS 67-02 M13-61780
DESCRIPTION OF A NEW TECHNIQUE FOR THE PREPARATION OF THIN METALLIC FILMS. APPLICATION FOR THE EXAMINATION OF GRAIN ORIENTATION SEAMS BY TRANSMISSION ELECTRON MICROSCOPY 67-05 M13-69134
TOPOLOGY OF SURFACE GRAINS AFTER ANNEALING OR CREEP 67-05 M14-68692
LINE SHAPE ANALYSIS OF COLD WORKED MAGNESIUM 67-07 M13-73435
TOPOLOGY OF SURFACE GRAINS AFTER ANNEALING OR CREEP 67-08 M13-76207
A METHOD FOR DETECTION OF MICROPORES IN METALS 67-10 M13-79206
METALLOGRAPHIC RESEARCH INTO SUBSTANCES ON A POWDERED MAGNESIUM BASE 67-10 M13-79740

MAGNESIUM, NONDESTRUCTIVE TESTING
NONDESTRUCTIVE TESTING OF ADHESIVE BONDS IN AIRCRAFT 67-10 M19-79437

MAGNESIUM, OXIDATION TESTS
OXIDATION KINETICS OF MAGNESIUM IN DRY OXYGEN BETWEEN 350 AND 450 C. --THE INFLUENCE OF PRESSURE 67-01 M18-58125
OXIDATION OF THIN MAGNESIUM LAYERS AT HIGH TEMPERATURES 67-01 M18-58126

MAGNESIUM, PHYSICAL PROPERTIES
THERMAL RELAXATION OF MECHANICAL VIBRATIONS IN POLYCRYSTALS 67-04 M15-67824
STUDY OF THE WETTING OF TITANIUM 3 STEEL AND 1KH18N9T STEEL BY MAGNESIUM AND MAGNESIUM CHLORIDE 67-06 M15-71129
THE ATOMIC HEATS OF MG SPECIMENS CONTAINING H AND SI IN THE TEMPERATURE RANGE OF 20 TO 300 K 67-07 M15-72727
COMPRESSIBILITY AND BINDING ENERGY OF THE SIMPLE METALS 67-07 M15-73942

MAGNESIUM, POWDER METALLURGY
PREPARATION OF FINE METAL PARTICLES BY MEANS OF EVAPORATION IN HELIUM GAS 67-08 M09-75933

MAGNESIUM, REACTIONS /CHEMICAL/
METALLOCHEMISTRY OF MAGNIDES 67-07 M14-73273

MAGNESIUM, REDUCTION /CHEMICAL/
LOSSES OF REDUCING AGENT WHEN MG AND CA ARE PRODUCED BY THE SILICOTHERMAL METHOD 67-09 M03-77047

MAGNESIUM, REFINING
REFINING MAGNESIUM WITH TITANIUM TETRACHLORIDE VAPORS 67-01 M03-57275
INTERACTION OF MAGNESIUM WITH CERTAIN IMPURITIES IN THE ELECTROLYSIS OF MAGNESIUM CHLORIDE 67-02 M03-60541
ZONE REFINING OF MAGNESIUM 67-02 M03-60732
NEW PREPARATIONS OF HIGH-PURITY MAGNESIUM BY ZONE MELTING 67-02 M06-60555
ELECTROLYZER FOR THREE-LAYER REFINING OF MAGNESIUM ALLOY SCRAP AND WASTES AND MAGNESIUM RAW SOURCE MATERIALS 67-04 M03-66960
A COMPARATIVE EVALUATION OF TWO PLANS FOR REPROCESSING LIQUID MAGNESIUM RAW MATERIAL 67-04 M03-66973
STUDY OF THE POLARIZATION ELECTROMOTIVE FORCES DURING ELECTROLYTIC DEPOSITION OF MG FROM AL-MG

MAGNESIUM
ALLOYS 67-05 M03-68962
STUDY OF CONDITIONS OF ZONE RECRYSTALLIZATION OF MG 67-05 M03-68963
METHOD OF FEEDING MAGNESIUM ELECTROLYZERS WITH RAW MATERIAL 67-06 M03-70143
ELECTRIC RESISTANCE FURNACE FOR REFINING MAGNESIUM 67-06 M03-70144
STUDY OF THE PHYSICO-CHEMICAL PROPERTIES OF SOME COMMERCIAL FLUXES FOR MAGNESIUM SMELTING 67-06 M03-72109
LOSSES OF REDUCING AGENT WHEN MG AND CA ARE PRODUCED BY THE SILICOTHERMAL METHOD 67-09 M03-77047
INVESTIGATION OF THE VACUUM DISTILLATION KINETICS OF MAGNESIUM ALLOYS 67-10 M03-79133
MAGNESIUM, SEPARATION
REFINING FERROSILICON FROM ALUMINUM WITH FORMATION OF METALLIC MAGNESIUM 67-09 M04-76564
MAGNESIUM, SINGLE CRYSTALS
REFINEMENT OF A TH2NI17-TYPE STRUCTURE, CEMG1.03 67-11 M13-80491
PLASTICITY OF MAGNESIUM CRYSTALS 67-12 M17-82763
MAGNESIUM, SOLUBILITY
THE SOLUBILITY OF IRON IN MAGNESIUM 67-09 M13-77272
MAGNESIUM, SPECIFICATIONS
LIGHT METALS AND ALLOYS. ASTM STANDARDS. PT. 6 67-03 M19-65494
MAGNESIUM, SURFACE FINISHING
VIBRATORY FINISHING 67-05 M12-68438
HARD ANODIZING OF MAGNESIUM 67-11 M12-81238
MAGNESIUM, SURFACE PROPERTIES
DETERMINING THE TRUE SURFACE VALUE OF ZN, CD AND MG VACUUM CONDENSATES IN THE PROCESS OF OXIDATION 67-04 M18-67654
MAGNESIUM, TERNARY SYSTEMS
SHAPE OF SOLUBILITY ISOTHERMS IN TERNARY SYSTEMS 67-01 M13-58042
THE MICROSTRUCTURES OF TERNARY EUTECTIC ALLOYS IN THE SYSTEMS CD-SN---PB, IN, TL--, AL-CU---MG, ZN, AG--, AND ZN-SN-PB 67-09 M13-76678
DETERMINATION OF THE COSOLUBILITY LIMIT OF NEODYMIUM AND NICKEL IN SOLID MAGNESIUM 67-09 M13-76842
COBALT, NICKEL AND COPPER PHASES IN TERNARY MNCU2AL SOLUTION 67-09 M13-77572
X-RAY DIFFRACTION ANALYSIS OF THE CE-MG-AL SYSTEM IN THE 0-33.3 AT . PER CENT CE RANGE 67-11 M13-81173
THE CRYSTAL STRUCTURE OF THE LAVES PHASE IN MG-ZN-AG-SYSTEM. PT. 1 67-12 M13-81768
CONSTITUTION DIAGRAM OF THE MG-ND-NI SYSTEM IN THE MAGNESIUM-RICH RANGE 67-12 M13-82121
MAGNESIUM, THERMAL PROPERTIES
DOUBLE MECHANICAL HEAT SWITCH FOR CALORIMETRY BELOW 1 K 67-06 M15-70552
ENTHALPY, HEAT CAPACITY, AND HEAT OF FUSION OF MAGNESIUM FROM 404 TO 1300 K 67-06 M15-70703
MAGNESIUM, THIN FILMS
HIGH-TEMPEPATURE OXIDATION OF THIN MAGNESIUM FILMS 67-04 M18-66668
X-RAY DIFFRACTION BY MULTILAYERED THIN-FILM STRUCTURES AND THEIR DIFFUSION 67-12 M14-82377
MAGNESIUM, VAPOR PRESSURE
A METHOD OF COMPUTING ELASTICITY VAPORS OF METALS DURING THEIR VACUUM THERMAL REDUCTION FROM OXIDES WITH ALLOYS 67-12 M03-83094
MAGNESIUM, VAPORIZING
EFFECT OF TEMPERATURE ON THE RATE OF VAPORIZATION OF MAGNESIUM FROM LIQUID CAST IRON 67-10 M14-79728
MAGNESIUM, WELDING
CAPACITOR DISCHARGE MACHINES FOR SPOT-WELDING OF LIGHT ALLOYS 67-02 M11-60018
WELD STRENGTH IMPROVED BY ROLL PLANISHING 67-03 M08-65170
RESISTANCE WELDING DESIGN FOR MAGNESIUM 67-08 M11-74442
MAGNESIUM BASE ALLOYS
PRINCIPLES OF MAGNESIUM TECHNOLOGY 67-02 M01-60901
MAGNESIUM CASTING ALLOYS FOR STRUCTURAL COMPONENTS OF AIRPLANES. RECENT DEVELOPMENTS 67-02 M17-61965
MAGNESIUM BASE ALLOYS, AEROSPACE
AEROSPACE STRUCTURAL METALS HANDBOOK. V2. NON-FERROUS LIGHT METAL ALLOYS 67-04 M01-66200
MAGNESIUM BASE ALLOYS, BAND THEORY
SOFT X-RAY ABSORPTION SPECTRA OF METALS AND ALLOYS. PT. 1. BE, AL, SB, BI AND AL-MG ALLOYS 67-04 M16-67473
MAGNESIUM BASE ALLOYS, CASTING
MAGNESIUM PRESSURE DIE CAST PARTS IN MOTOR VEHICLES 67-02 M06-59725
DIE CASTING OF METALS, INJECTION MOLDING OF ORGANIC MATERIALS 67-02 M06-60611
THE FUNDAMENTALS OF THE DIE CASTING OF MG 67-05 M06-68599
AEROSPACE CASTINGS PRODUCED FROM MAGNESIUM-LITHIUM-SILICON ALLOY 67-05 M06-68684
THE INFLUENCE OF ALLOY COMPOSITION ON THE PREVENTION OF IGNITION DUE TO BE ADDITION TO MG ALLOYS 67-05 M06-68885
A FUNDAMENTAL STUDY ON THE CASTING CRACK OF LIGHT METAL ALLOYS. RELATION BETWEEN THE CASTING CONTRACTION STRESS AND THE HOT STRENGTH 67-05 M17-68898
EFFICIENT MELTING AND CASTING METHODS IN THE MASS PRODUCTION OF LIGHT-METAL CASTINGS 67-06 M06-71190
AUTOMATIC POURING FURNACE FOR DIECASTING 67-07 M06-72819
AUTOMATIC FEEDING OF COLD CHAMBER MACHINES WITH MOLTEN MAGNESIUM ALLOYS 67-09 M06-76733
THE GATING AND RISERING OF COUNTER-GRAVITY POURED MAGNESIUM-LITHIUM CASTINGS 67-10 M06-79295
ANNUAL DIE CASTING REVIEW. PT. 1. PROPERTIES AND MATERIALS 67-12 M06-82940
MAGNESIUM BASE ALLOYS, CASTINGS
ENGINEERED CASTINGS 67-03 M06-65496
HOT-CRACKING SUSCEPTIBILITY OF CAST METALS 67-06 M06-71192
SEGREGATION AND INCLUSIONS IN ZIRCONIUM-CONTAINING MAGNESIUM CASTING ALLOYS 67-10 M19-79751
MAGNESIUM BASE ALLOYS, CHEMICAL ANALYSIS
HYDROGEN DETERMINATION IN MAGNOX AL 80 AND MAGNOX ZN 55 BY VACUUM SUBLIMATION 67-02 M19-59414
THE DETERMINATION OF INDIUM IN MAGNESIUM ALLOYS BY FLAME PHOTOMETRY 67-05 M19-69624
MAGNESIUM BASE ALLOYS, CORROSION
THE INHIBITION OF PITTING AND STRESS-CORROSION CRACKING OF MG-AL ALLOYS BY NO3 67-05 M18-69707
SURFACE SEALING OF MAGNESIUM ALLOY COMPONENTS OPERATING UNDER MARITIME CONDITIONS 67-09 M18-77199
MAGNESIUM ALLOYS IN TERPHENYLS--CORROSION INHIBITORS 67-09 M18-78260
AQUEOUS CORROSION BEHAVIOR OF LIGHT ALLOYS 67-10 M18-79932
ATMOSPHERIC EXPOSURE OF LIGHT METALS 67-11 M18-80695
MAGNESIUM BASE ALLOYS, CRYSTAL LATTICES
STRUCTURE OF THE PARTIALLY ORDERED STATE OF A3B ALLOYS 67-06 M13-72355
ORDERING AND ITS EFFECT ON DISLOCATION ARRANGEMENTS IN MG3CD 67-12 M14-82962
MAGNESIUM BASE ALLOYS, DEFORMATION
A CRITICAL REVIEW OF THE PEIERLS MECHANISM 67-06 M17-71524
MAGNESIUM BASE ALLOYS, DIFFUSION
A COMMENT ON DIFFUSION CREEP DEFORMATION IN A MAGNESIUM REACTOR COMPONENT 67-03 M14-65862
MAGNESIUM BASE ALLOYS, ELECTRICAL PROPERTIES
THE RELATION BETWEEN DAMPING BEHAVIOR AND CONSTITUTION OF QUENCHED ALUMINIUM-COPPER-MAGNESIUM-SILICON ALLOYS 67-05 M15-68694
MAGNESIUM BASE ALLOYS, ELECTROREFINING
COMBINED LIQUATION-ELECTROLYTIC METHOD OF REFINING ALUMINUM ALLOYS 67-12 M03-83100
MAGNESIUM BASE ALLOYS, EXTRUSION
ANNALYTICAL DETERMINATION OF STRAIN FORCES IN TUBE EXTRUSION 67-01 M07-57316
MEASUREMENT OF ALUMINIUM EXTRUSION TEMPERATURES--COLLABORATIVE WORKS TRIALS OF A COMMERCIAL LEAD SULPHIDE-CELL INSTRUMENT 67-02 M08-61292
MAGNESIUM BASE ALLOYS, FIBER METALLURGY
INFLUENCE OF CONSTITUENT PROPERTIES UPON THE STRUCTURAL EFFICIENCY OF FIBROUS COMPOSITE SHELLS 67-01 M17-58521
MAGNESIUM BASE ALLOYS, GRAIN REFINEMENT
EFFECT OF ROLLING CONDITIONS ON THE GRAIN SIZE IN MG-ZR ALLOYS 67-06 M13-70209
MAGNESIUM BASE ALLOYS, HEAT TREATMENT
THE DISTRIBUTION OF BE AND THE GRAIN SIZE IN MG-AL

ALLOYS CONTAINING BE 67-05 M06-68865
HIGH STRENGTH MAGNESIUM ALLOY 67-07 M10-74166
MAGNESIUM BASE ALLOYS, MACHINING
TEMPERATURE KEY TO MACHINING 67-08 M08-75530
THERMAL COEFFICIENTS AS A MACHINABILITY INDEX 67-11 M08-80539
MACHINABILITY OF MAGNESIUM ALLOY AZ 63 TURNING. STUDY ON THE MACHINING OF MAGNESIUM ALLOY. PT. 1 67-12 M08-83113
MAGNESIUM BASE ALLOYS, MECHANICAL PROPERTIES
EFFECT OF ALLOYING ON STRUCTURE AND PROPERTIES OF MG-LI ALLOYS CONTAINING ALUMINUM 67-01 M17-57282
TENSILE TESTING OF ALLOYS IN THE MELTING TEMPERATURE RANGE 67-01 M17-57465
EFFECT OF TEMPERATURE ON THE MECHANISM OF PLASTIC DEFORMATION OF MAGNESIUM AND MAGNESIUM ALLOY WITH 3 PER CENT NEODYMIUM 67-01 M17-58083
INFLUENCE OF PREVIOUS STRESSING ON THE DAMPING CAPACITY OF A MG-ZR ALLOY SHOWING A TWINNING PHENOMENON 67-02 M15-61021
RELATIONSHIP BETWEEN CHEMICAL COMPOSITION AND PROPERTIES OF MG-LI ALLOYS 67-02 M17-59198
FATIGUE CRACK PROPAGATION IN METALS 67-02 M17-60700
INFLUENCE OF ZN ON THE PROPERTIES OF CREEP-RESISTING MG-ND-ZR ALLOYS 67-02 M17-61197
MECHANICAL PROPERTIES OF MA2-1 ALLOY CONTAINING VARIOUS AMOUNTS OF HYDROGEN 67-02 M17-61288
INVESTIGATION OF THE STRUCTURE OF MG-3 PER CENT ND ALLOY, SUBJECTED TO HIGH-TEMPERATURE PLASTIC DEFORMATION 67-02 M17-62084
EFFECT OF TEMPERATURE, DEGREE AND DURATION OF DEFORMATION ON THE DEFORMABILITY OF MAGNESIUM ALLOYS 67-02 M17-62222
THE USE OF LIGHT METAL ALLOYS IN ENGINES OF VEHICLES 67-02 M20-60216
THE EFFECT OF TEST BAR VARIABLES ON THE TENSILE PROPERTIES OF MAGNESIUM CASTING ALLOYS 67-03 M17-65318
CONTRIBUTION TO THE STUDY OF MAGNESIUM, ZIRCONIUM, BERYLLIUM AND ZINC BEHAVIOR DURING ALTERNATIVE PLASTIC DEFORMATIONS 67-03 M17-65554
EFFECT OF ALLOYING AND PROCESSING ON DAMPING OF ULTRASONIC VIBRATIONS IN MG ALLOYS 67-03 M17-65791
UTILIZATION OF PLASTIC FLOW LEADING TO LONG FATIGUE LIFE IN ORDERED ALLOYS 67-04 M17-66127
ON THE DAMPING CAPACITY OF MG AND ITS ALLOYS 67-05 M17-68864
ON THE EVALUATION OF MECHANICAL PROPERTIES AND THE TYPE OF FRACTURE OF ANISOTROPIC METALS 67-05 M17-69633
MAGNESIUM CASTING ALLOYS FOR AIRCRAFT STRUCTURES 67-06 M01-70671
MAGNESIUM ZK60A 67-06 M01-71153
EFFECT OF MICROPOROSITY ON THE TENSILE PROPERTIES OF QE22A ALLOY 67-06 M08-70674
METHOD OF TESTING ALLOYS IN TENSION IN THE SOLIDUS-LIQUIDUS RANGE 67-06 M17-70753
MEASUREMENT OF BIAXIAL CREEP STRAINS USING THE MOIRE METHOD 67-06 M17-70867
ELASTIC CONSTANTS OF MAGNESIUM THORIUM ALLOY 67-06 M17-71637
THE MECHANISM OF PRISMATIC CREEP IN MG-12 AT. PER CENT LI 67-06 M17-71959
A MATHEMATICAL MODEL OF THE RELATIONSHIP OF THE RELATIVE ELONGATION TO THE STRUCTURAL CHARACTERISTICS OF AN ALLOY IN SOLID-LIQUID STATE 67-06 M17-72120
EFFECT OF SUPPLEMENTAL ALLOYING ON THE PROPERTIES OF ALLOYS OF THE MG-LI-AL SYSTEM 67-06 M17-72124
HIGH-STRENGTH LIGHT ALLOYS 67-07 M01-74260
THERMAL EXPANSION AND ELASTIC CONSTANTS OF BETA PRIME PHASE-AGMG. PT. 2. SINGLE-CRYSTAL ELASTIC CONSTANTS FROM 77 TO 750 K 67-07 M17-72639
ELASTIC CONSTANTS OF MAGNESIUM-LITHIUM ALLOYS 67-07 M17-73933
MAGNESIUM MSR-B --HEAT TREATABLE CASTING ALLOY-- 67-08 M01-75684
EFFECTS OF CERIUM ON WORKABILITY OF MAGNESIUM 67-08 M17-75358
IMPROVING THE PROPERTIES OF HIGH-TEMPERATURE MAGNESIUM ALLOYS BY HEAT AND MECHANICAL TREATMENT 67-09 M17-77046
THE CREEP PROPERTIES OF A COMPACTED MAGNESIUM ALLOY POWDER 67-09 M17-77472
CAVITY NUCLEATION DURING CREEP OF MAGNOX AL80 67-09 M17-78267
INFLUENCE OF ALLOYING ON DAMPING OF ULTRASOUND IN MAGNESIUM ALLOYS 67-10 M17-79144
THE NEW MAGNESIUM ALLOYS FOR AEROSPACE 67-10 M17-79179
THE INFLUENCE OF A SUBGRAIN STRUCTURE ON PRECIPITATION-HARDENING AND NUCLEATION OF PRECIPITATES IN AN AL-ZN-MG ALLOY 67-11 M14-80105
EFFECT OF MANGANESE ON THE PROPERTIES OF MGZN-1 R. E. M. ALLOY SHEETS 67-11 M17-81162
ANISOTROPY OF FATIGUE RESISTANCE OF METALS 67-12 M17-81888
ON THE APPLICATION OF THE PROT METHOD TO FATIGUE TESTS OF LIGHT METAL ALLOYS 67-12 M17-81890
THE INFLUENCE OF STRAIN HARDENING ON THE HARDNESS AND THE STRUCTURE OF THE MAGNESIUM-ZINC ALLOY OF 6 PER CENT ZINC, QUENCHED AND THEN TEMPERED AT 250 C 67-12 M17-82234
RESEARCH INTO THE PROPERTIES OF THE ML5 CAST INDUSTRIAL ALLOY IRRADIATED WITH NEUTRONS 67-12 M17-83371
RECENT DEVELOPMENTS IN MAGNESIUM CASTING ALLOYS 67-12 M17-83376
ALUMINUM AND MAGNESIUM IN REACTOR METALLURGY 67-12 M20-83144
MAGNESIUM BASE ALLOYS, MELTING
COPPER AND ALUMINUM --NON-FERROUS AND LIGHT METALS AND ALLOYS--. PT. 2 67-04 M06-66243
MELTING MAGNESIUM CHIPS AND MAGNESIUM ALLOYS WITH FL5 FLUX 67-07 M03-73421
FILTRATION OF LIGHT METAL MELTS 67-07 M03-73490
MAGNESIUM BASE ALLOYS, METAL WORKING
CONCERNING THE INCREASE IN DUCTILITY OF CERTAIN HEXAGONAL METALS AFTER COLD DEFORMATION.. CASE OF MG-0.5 PER CENT ZR ALLOY 67-01 M17-57165
AUSFORMING OF MAGNESIUM ALLOYS WITH NEODYMIUM 67-02 M10-60800
INFLUENCE OF STRAIGHTENING ON TEXTURE AND MECHANICAL PROPERTIES OF MA2-1 MG ALLOY PLATES 67-02 M17-59768
INFLUENCE OF STRAIGHTENING ON THE TEXTURE AND MECHANICAL PROPERTIES OF SHEETS OF THE MA2-1 ALLOY 67-08 M17-76126
MAGNESIUM BASE ALLOYS, MICROSTRUCTURE
THE EFFECT OF FABRICATION VARIABLES ON GRAIN SIZE OF MAGNOX AL80 FUEL CANS 67-02 M13-60231
EFFECT OF ALLOYING ELEMENTS ON RECRYSTALLIZATION OF MG ALLOYS 67-02 M14-62233
INHIBITION OF GRAIN GROWTH DURING RECRYSTALLIZATION AND HARDENING BY INTERVAL HYDROGENATION OF MAGNESIUM-ZIRCONIUM ALLOYS 67-06 M14-70253
MAGNESIUM BASE ALLOYS, PHASE DIAGRAMS
METALLOCHEMISTRY OF MAGNIDES 67-07 M14-73273
MAGNESIUM BASE ALLOYS, PHASE TRANSFORMATIONS
SOLID SOLUTION DISINTEGRATION KINETICS IN THE ALLOY MG-AL 67-05 M14-68848
RESEARCH INTO THE EFFECT OF ELECTROMAGNETIC MIXING ON THE SOLIDIFICATION OF DUCTILE MAGNESIUM ALLOYS 67-09 M14-76958
THE TRANSFORMATIONS OF A CD-MG ALLOY WITH A STOICHIOMETRIC COMPOSITION OF CDMG3 67-10 M14-79874
MAGNESIUM BASE ALLOYS, PHASES /STATE OF MATTER/
SOLUBILITY RELATIONSHIPS IN MAGNESIUM-MANGANESE-ZIRCONIUM ALLOYS 67-05 M14-69567
MAGNESIUM BASE ALLOYS, PHYSICAL PROPERTIES
INTERNAL FRICTION IN SINTERED MAGNESIUM 67-04 M17-67821
SELF-ABSORPTION IN SOFT X-RAY SPECTRA OF ALLOYS 67-06 M16-71288
CHARACTERISTICS OF METAL SUBLIMATION IN THE PRESENCE OF AN OXIDIZED SURFACE LAYER 67-12 M14-82170
FLAMMABILITY OF MAGNESIUM 67-12 M15-82072
MAGNESIUM BASE ALLOYS, REFINING
ENERGY BALANCE OF AN EXPERIMENTAL-INDUSTRIAL ELECTROLYZER USED IN TRIPLE-LAYER REFINING OF MAGNESIUM ALLOY SCRAP AND WASTE PRODUCTS 67-02 M03-62218
MAGNESIUM BASE ALLOYS, SINGLE CRYSTALS
MECHANISM OF BASAL CREEP IN MG-12 AT. PER CENT LI FROM 500 TO 885 K 67-06 M17-71078
MAGNESIUM BASE ALLOYS, SPECIFICATIONS
LIGHT METALS AND ALLOYS. ASTM STANDARDS. PT. 6 67-03 M19-65494
MAGNESIUM BASE ALLOYS, THERMAL PROPERTIES
THERMAL EXPANSION AND ELASTIC CONSTANTS OF BETA

MAGNESIUM BASE ALLOYS

PRIME PHASE AGMG. PT. 1. THE COEFFICIENT OF THERMAL EXPANSION FROM 77 TO 800 K 67-07 M15-72638
ENERGY OF THE ORDER-DISORDER TRANSFORMATION OF MGIN AS A SUPERLATTICE WITH THE L1O STRUCTURE 67-08 M14-74423
THERMODYNAMIC PROPERTIES OF LIQUID MAGNESIUM-LEAD ALLOYS 67-12 M15-82581

MAGNESIUM BASE ALLOYS, THERMODYNAMICS
NATURE OF THE ANOMALOUS VALUE OF HEAT CAPACITY OF ORDERED ALLOYS IN THE REGION OF TEMPERATURES ABOVE THE ORDER-DISORDER PHASE TRANSITION 67-02 M15-58860

MAGNESIUM BASE ALLOYS, ULTRASONICS
MAGNESIUM ALLOYS WHICH ABSORB LITTLE ULTRASOUND 67-09 M16-76712

MAGNESIUM BASE ALLOYS, VAPORIZING
STUDY OF ALLOY EVAPORATION 67-02 M15-59931
EVAPORATION MECHANISMS OF ALLOYS 67-07 M15-72586

MAGNESIUM BASE ALLOYS, WELDING
CHARACTERISTIC REDISTRIBUTION OF SOLUTE IN FUSION WELDING 67-04 M11-67036
WELDING DESIGN AND PROCESS MANUAL--MAGNESIUM 67-05 M11-68433
SOME FEATURES OF QUALITY CONTROL OF CONTACT WELDING USING REFERENCE MATERIAL 67-06 M11-70388
PRODUCING HIGH QUALITY RESISTANCE WELDS IN ALUMINUM AND MAGNESIUM 67-06 M11-72245
GAS-SHIELDED STUD WELDING OF MAGNESIUM 67-07 M11-74282
INSPECTION OF RESISTANCE WELDS WITH THE AID OF MARKING MATERIALS 67-09 M11-78088

MAGNESIUM COMPOUNDS
SEE ALSO MAGNESIUM OXIDE

MAGNESIUM COMPOUNDS, ATOMIC PROPERTIES
DOUBLY-ASSOCIATED CATION-VACANCY CENTERS IN MAGNESIUM OXIDE 67-11 M16-81683
PARAMAGNETIC RESONANCE OF IONS OF THE IRON GROUP IN SINGLE CRYSTALS OF PERICLSE 67-12 M16-82797

MAGNESIUM COMPOUNDS, BENEFICIATION
USE OF NATURAL GAS FOR PREPARATION OF CARNALLITE FOR ELECTROLYSIS 67-10 M02-79041

MAGNESIUM COMPOUNDS, CHEMICAL ANALYSIS
EXPRESS DETERMINATION OF THE PHASE COMPOSITION OF ARTIFICIAL CARNALLITE 67-04 M19-67530

MAGNESIUM COMPOUNDS, CORROSION
THERMOGRAVIMETRIC INVESTIGATIONS OF SUBSTANCES CONTAINING SULFATE WITH HIGH-TEMPERATURE CORROSION ON THE FIRE SIDE OF COAL-FIRED BOILERS 67-02 M18-62009

MAGNESIUM COMPOUNDS, CRYSTAL LATTICES
REACTIONS BETWEEN VACANCIES AND IMPURITIES IN MAGNESIUM OXIDE. PT. 1. CR3 PLUS-ION IMPURITIES 67-06 M14-72197
REACTIONS BETWEEN VACANCIES AND IMPURITIES IN MAGNESIUM OXIDE. PT. 2. MN4 PLUS-ION AND OH EQUALS -ION IMPURITIES 67-06 M14-72198
STRUCTURAL CHARACTERISTICS AND CRYSTALLOCHEMISTRY OF BINARY MAGNESIUM COMPOUNDS 67-08 M13-75437
ON CHANGES IN SHORT-RANGE ORDER STRUCTURES IN MELTS OF MAGNESIUM COMPOUNDS AND GROUP 4 ELEMENTS DURING HEATING 67-11 M14-81327

MAGNESIUM COMPOUNDS, DEFORMATION
A CRITICAL REVIEW OF THE PEIERLS MECHANISM 67-06 M17-71524

MAGNESIUM COMPOUNDS, DEHYDRATION
THERMAL AND MATERIALS BALANCES FOR A FLUIDIZED BED FURNACE DEWATERING CARNALLITE 67-06 M02-71352

MAGNESIUM COMPOUNDS, DIFFUSION
EFFECT OF MGO AND MGTIO3 DOPING ON DIFFUSION-CONTROLLED CREEP OF POLYCRYSTALLINE ALUMINUM OXIDE 67-08 M17-76095

MAGNESIUM COMPOUNDS, MAGNETIC PROPERTIES
NUCLEATION AND GROWTH OF REVERSE DOMAINS 67-07 M15-73556

MAGNESIUM COMPOUNDS, MECHANICAL PROPERTIES
THE VOIGT-REUSS-HILL APPROXIMATION AND ELASTIC MODULI OF POLYCRYSTALLINE MGO, CAF2, BETA-ZNS, ZNSE, AND CDTE 67-10 M17-79160

MAGNESIUM COMPOUNDS, OPTICAL PROPERTIES
SUITABILITY OF MAGNESIUM FLUORIDE, CRYOLITE AND FLUORITE AS ANTIREFLECTION MATERIALS FOR INFRARED RADIATIONS 67-08 M15-75566
THERMOLUMINESCENT STUDY OF THE COLOR CENTERS IN IRRADIATED POLYCRYSTALLINE MGO 67-11 M15-81686

MAGNESIUM COMPOUNDS, PHASE DIAGRAMS
METALLOCHEMISTRY OF MAGNIDES 67-07 M14-73273

MAGNESIUM COMPOUNDS, PHYSICAL PROPERTIES
STUDY OF THE WETTING OF TITANIUM 3 STEEL AND 1KH18N9T STEEL BY MAGNESIUM AND MAGNESIUM CHLORIDE 67-06 M15-71129

MAGNESIUM COMPOUNDS, POWDER METALLURGY
ATOMIZING TECHNIQUES AS AUXILIARY MEANS IN THE POWDER SINTERING PROCESS 67-02 M09-58932
INVESTIGATION OF COMPACTIBILITY OF HOT PRESSED MGO WITH VARIOUS ADDITIONS 67-02 M09-60177
IMPURITY DISTRIBUTION IN MGO 67-03 M09-65652
DENSIFICATION DURING THE HOT PRESSING OF MAGNESIUM OXIDE WITH ADDITIONS 67-09 M09-76910

MAGNESIUM COMPOUNDS, REACTIONS /CHEMICAL/
EFFECT OF PETROLEUM COKE AND WATER VAPOR IN CHLORINATION OF HYDROLYSIS PRODUCTS OF MELTED CARNALLITE 67-06 M03-72117
ACTIVITY OF MAGNESIUM CHLORIDE AND HYDROXYCHLORIDE IN MAGNESIUM BATH MELTS 67-09 M03-77117
THERMAL DEGRADATION OF MAGNESIUM SULFATE HEPTAHYDRATE UNDER CONTROLLED VAPOR PRESSURE 67-12 M15-83133

MAGNESIUM COMPOUNDS, REDUCTION /CHEMICAL/
REDUCTION OF MAGNESIUM FERRITE AND CHROMITE IN SOLID SOLUTIONS 67-04 M03-67096

MAGNESIUM COMPOUNDS, REFINING
EFFECT OF IRON IMPURITIES ON ELECTROLYSIS OF MAGNESIUM CHLORIDE 67-02 M03-59691
CHLORINATING PRODUCTS OF THE HYDROLYSIS OF MOLTEN CARNALLITE 67-02 M03-60540
EFFECT OF SILICA IMPURITIES ON THE ELECTROLYSIS OF MAGNESIUM CHLORIDE AND CARNALLITE 67-02 M03-60567
DESULFURIZATION OF MOLTEN CARNALLITE WITH METALLIC MAGNESIUM 67-12 M02-83093

MAGNESIUM COMPOUNDS, REFRACTORIES
PACKING AT HOT PRESSING OF MAGNESIUM OXIDE OBTAINED BY DISSOCIATION OF CERTAIN COMPOUNDS 67-07 M05-72611

MAGNESIUM COMPOUNDS, SPECTRUM ANALYSIS
PARAMAGNETIC RESONANCE OF IONS OF THE IRON GROUP IN PERICLASE SINGLE CRYSTALS 67-06 M16-71476

MAGNESIUM COMPOUNDS, SURFACE PROPERTIES
METALLOGRAPHIC INVESTIGATION OF WETTABILITY SPECIMENS 67-07 M15-74276

MAGNESIUM COMPOUNDS, THERMODYNAMICS
THERMAL STUDY OF GROUP 2-4 SEMICONDUCTORS. PT. 2. HEAT CAPACITY OF MG2SN IN THE RANGE 5 TO 300 K 67-05 M15-68231

MAGNESIUM OXIDE
SEMI-INDUSTRIAL EXPERIMENTAL PRODUCTION OF SYNTHETIC MAGNESIUM OXIDE FROM MAGNESIUM SALT SOLUTIONS 67-04 M03-67825

MAGNESIUM OXIDE, ALLOYING ADDITIVE
MGO INJECTION SLOWS BOILER CORROSION. PT. 2 67-10 M18-79476

MAGNESIUM OXIDE, ATOMIC PROPERTIES
LATTICE DYNAMICS OF MGO 67-06 M16-70990
INTERACTIONS OF LONG RANGE AND PARAMAGNETIC IONS 67-10 M16-79370

MAGNESIUM OXIDE, BENEFICIATION
ACID TREATMENT OF SEA WATER IMPROVES QUALITY OF PERICLASE YIELD 67-01 M05-58574

MAGNESIUM OXIDE, BINARY SYSTEMS
PHASE RELATIONS IN THE ZRO2-MGO SYSTEM 67-09 M14-76751

MAGNESIUM OXIDE, CRYSTAL LATTICES
GENERATION OF VACANCIES IN MGO BY DEFORMATION 67-02 M13-61072
DISLOCATION DIPOLES IN MGO 67-05 M13-69462

MAGNESIUM OXIDE, CRYSTAL STRUCTURE
KINKING IN MGO SINGLE CRYSTALS UNDER HIGH CONFINING PRESSURE 67-05 M13-68295

MAGNESIUM OXIDE, DIFFUSION
THE DIFFUSION OF CALCIUM IN MAGNESIUM OXIDE 67-01 M14-57943

MAGNESIUM OXIDE, IRON AND STEEL MAKING
MAGNESIUM OXIDE IN BLAST FURNACE SLAGS 67-04 M04-67542

MAGNESIUM OXIDE, MECHANICAL PROPERTIES
THERMOMECHANICAL BEHAVIOR 67-02 M17-60705
ON THE DUCTILE BEHAVIOR OF NOMINALLY BRITTLE MATERIALS DURING EROSIVE CUTTING 67-03 M17-65936
THE DEFORMATION OF MGO SINGLE CRYSTALS DOPED WITH

TITANIUM AND VANADIUM 67-06 M14-70632
ON STRAIN-HARDENING OF MAGNESIUM OXIDE
67-06 M17-70957
STUDY OF THE MECHANISM OF STRAIN IN MGO COMPACTS DURING ROASTING 67-08 M17-75597
DEVELOPMENT OF MGO HEAT EXCHANGE MEDIA
67-09 M05-77962
INTRINSIC BRITTLE STRENGTH OF MAGNESIUM OXIDE BICRYSTALS 67-09 M17-77426
MECHANISM OF CREEP IN MGO BRICK
67-12 M17-82993

MAGNESIUM OXIDE, MICROSTRUCTURE
TRANSMISSION ELECTRON-MICROSCOPIC STUDIES ON MECHANISMS FOR DIPOLE FORMATION IN MGO
67-01 M13-57487

MAGNESIUM OXIDE, OPTICAL PROPERTIES
STUDY OF IONIZATION-INDUCED RADIATION DAMAGE IN MGO
67-06 M15-69923
THE EFFECT OF AMORPHOUS SURFACE LAYERS ON ELECTRON MICROSCOPE IMAGES OF CRYSTALS
67-11 M13-80808

MAGNESIUM OXIDE, PHYSICAL PROPERTIES
THE REFLECTION SPECTRA OF SOLIDS, CONDITIONS AND LIMITS OF THE QUANTITATIVE EVALUATION OF THE KUBELKA-MUNK FUNCTION 67-04 M15-67252
ROASTING AND RECRYSTALLIZATION OF MAGNESIUM OXIDE
67-07 M05-72616

MAGNESIUM OXIDE, POWDER METALLURGY
HOT-PRESSED TRANSLUCENT OXIDES 67-02 M09-60710
EFFECT OF WATER VAPOR ON INITIAL SINTERING OF MAGNESIA 67-02 M09-61085
GAS ENTRAPMENT DURING THE SINTERING OF MAGNESIA IN ARGON 67-03 M09-65672
MAGNESIA PRECURSOR AND SINTERING STUDY
67-04 M05-67325
EFFECT OF LIF ON HOT-PRESSING OF MGO
67-10 M09-79432
EFFECT OF ISOSTATIC PRESSURE ON SINTERING
67-10 M09-79433

MAGNESIUM OXIDE, REACTIONS /CHEMICAL/
REDUCED PRESSURE SINTERING OF MGO AS HIGH FREQUENCY INSULATOR. PT. 2 67-02 M05-60161
STOICHIOMETRY OF MGO-MNXO SOLID SOLUTIONS IN AIR AT HIGH TEMPERATURES 67-02 M05-61088

MAGNESIUM OXIDE, REDUCTION /CHEMICAL/
THERMAL PROCESSES FOR THE PRODUCTION OF MAGNESIUM
67-09 M03-77530
REDUCTION OF MAGNESIA FROM THE LINING IN THE PRODUCTION OF STEEL TREATED WITH ALUMINIUM
67-12 M04-82109

MAGNESIUM OXIDE, SERVICE TIME
RESISTANCE OF MAGNESIUM REFRACTORIES TO REACTION PRODUCTS OF COPPER SMELTING 67-02 M04-59778

MAGNESIUM OXIDE, SINGLE CRYSTALS
FLOATING-ZONE REFINING BY ELECTRON BOMBARDMENT
67-01 M14-57982

MAGNESIUM OXIDE, SURFACE PROPERTIES
DISLOCATION STRUCTURES IN CLEAVED MAGNESIUM OXIDE
67-01 M13-57123

MAGNESIUM OXIDE, THERMAL PROPERTIES
THERMAL EXPANSION AND ELASTIC PROPERTIES OF TWO-PHASE CERAMIC BODIES 67-05 M15-68611
THERMODYNAMICS OF THE INTERACTION OF ZRO2, MGO AND CAO WITH REFRACTORY METALS 67-12 M15-81741

MAGNESIUM OXIDE, THIN FILMS
THINNING OF POLYCRYSTALLINE MGO FOR TRANSMISSION ELECTRON MICROSCOPY 67-05 M13-68659

MAGNESIUM OXIDE, VAPORIZING
EVAPORATION OF POROUS OXIDE CERAMIC AT HIGH TEMPERATURES 67-03 M05-65304

MAGNETIC ALLOYS
SEE ALSO PERMALLOY
CONTRIBUTION TO THE STUDY OF THE PRINCIPAL PROPERTIES OF SERMALLOY A1, AN ALNICO ALLOY WITH 38 PER CENT COBALT 67-01 M15-58647
HYSTERESIS LOOP ASYMMETRY INDUCED BY MAGNETIC ANNEALING IN FE-AL ALLOY 67-01 M15-58660
PERMANENT MAGNET CAPABLE OF COLD WORKING
67-01 M20-57518
SATURATION MAGNETIZATION IN THE ALLOY CO-PT
67-02 M15-61937
ELECTROMAGNETIC ALLOYS 67-04 M17-67719

MAGNETIC ALLOYS, ATOMIC PROPERTIES
HYPERFINE INTERACTIONS AT FE57 NUCLEI IN INTERMETALLIC COMPOUNDS OF THE FE-MN SYSTEM WITH THE BETA-MANGANESE STRUCTURE 67-07 M16-73529

MAGNETIC ALLOYS, CASTING
PRODUCTION AND PROPERTIES OF ALNICO ALLOYS WITH COLUMNAR STRUCTURE 67-01 M06-58444

MAGNETIC ALLOYS, CHEMICAL ANALYSIS
ANALYSIS OF THE NONMETALLIC INCLUSIONS IN MAGNETICALLY HARD ALLOYS 67-09 M19-76978
THE DETERMINATION OF SMALL QUANTITIES OF PB AND BI IN ALNICO AND SIMILAR ALLOYS 67-09 M19-77588

MAGNETIC ALLOYS, CLADDING
BIMETAL TAPE WITH METALLOCERAMICC MAGNETIC LAYER ON A NONMAGNETIC BASE 67-01 M12-58137

MAGNETIC ALLOYS, COATINGS
TECHNICAL DEVELOPMENTS IN 1966 67-04 M12-66507

MAGNETIC ALLOYS, CORROSION
A STUDY ON CORROSION RATES OF STRANDS BY MAGNETIC MEASUREMENTS 67-02 M18-59161

MAGNETIC ALLOYS, CRYSTAL LATTICES
RESEARCH INTO THE CRYSTAL STRUCTURE OF THE METASTABLE PHASES IN TICONAL ALLOY
67-09 M13-76945

MAGNETIC ALLOYS, ELECTRICAL PROPERTIES
RESISTIVITY OF ORDERED AND DISORDERED IRON-NICKEL ALLOYS 67-02 M15-62193
VARIATION OF THE LOW-TEMPERATURE RESISTIVITY IN DILUTE MAGNETIC ALLOYS 67-07 M15-73524

MAGNETIC ALLOYS, ELECTRON MICROSCOPY
MAGNETIC AND METALLURGICAL STRUCTURES IN PERMANENT MAGNETS 67-02 M15-61033

MAGNETIC ALLOYS, HEAT TREATMENT
EFFECT OF HEAT TREATMENT ON THE MAGNETIC PROPERTIES OF A COBALT-PLATINUM ALLOY 67-02 M15-59955
HEAT TREATMENT OF HIGH-COERCIVITY ALLOYS OF THE MAGNICO TYPE 67-04 M10-66379
DETERMINATION OF THE OPTIMUM TEMPERING TREATMENT FOR A PERMANENT MAGNETIC ALLOY OF THE ALNICO 160 TYPE 67-09 M15-76703
ON THE THEORY OF THERMOMAGNETIC TREATMENT OF HIGH COERCIVE ALLOYS OF THE TICONAL TYPE
67-10 M15-79838
HEAT TREATMENT OF HIGH-COERCIVITY ALLOYS OF THE MAGNICO TYPE 67-11 M10-80981

MAGNETIC ALLOYS, MAGNETIC PROPERTIES
EFFECT OF CRYSTALLITE SIZE ON COERCIVE FORCE OF THIN FERROMAGNETIC FILMS 67-01 M15-57119
EFFECT OF TEMPERING ON THE PROPERTIES OF A MAGNETICALLY-HARD ALLOY OF THE SYSTEM FE-NI-CR
67-01 M15-57343
INTERACTIONS BETWEEN DOMAIN WALLS IN COUPLED FILMS
67-01 M15-57567
COMPARISON OF MAGNETIC MEASUREMENTS AND THEORETICAL PREDICTIONS FOR NICKEL-IRON FILMS OVER A WIDE COMPOSITION RANGE -67-01 M15-57569
THE EFFECT OF UNIAXIAL ELASTIC STRESSES ON THE REMAGNETIZATION OF THIN PERMALLOY LAYERS
67-01 M15-57571
THE STRUCTURE AND POLARITY OF DOMAIN BOUNDARIES IN FERROMAGNETIC LAYERS 67-01 M15-57572
ON THE MAGNETIC STRUCTURE OF SOME ALLOYS OF TRANSITION METALS 67-01 M15-57576
THE REMAGNETIZATION OF THIN FERROMAGNETIC LAYERS ALONG THE AXIS OF LIGHT MAGNETIZATION
67-01 M15-57583
MINOR LOOP LOSS PREDICTIONS IN DEVICES USING PERMANENT MAGNET MATERIALS 67-01 M15-58668
MAGNETIC PROPERTIES OF MNAL SYSTEM ALLOYS
67-01 M15-58670
FIELDS IN CUBICAL TEXTURE IN THE PRESENCE OF A BIAS FIELD 67-01 M15-58671
ISOTHERMAL TREATMENT OF THE YUNDK24 ALLOY IN A MAGNETIC FIELD 67-02 M15-59635
MAGNETIC AND MECHANICAL PROPERTIES OF ANKOTI-5I ALLOYS 67-02 M15-59638
IMPROVEMENT IN MAGNETIC PROPERTIES OF MNAL-B PERMANENT MAGNETS BY SWAGING WORKING
67-02 M15-59741
THE INFLUENCE OF THE ADDITION OF VANADIUM ON THE CHARACTERISTIC OF NEW MAGNET ALLOY MALCOLLOY IN THE SYSTEM OF COBALT AND ALUMINUM
67-02 M15-59743
ON THE YIELD OF SULFUR AND THE INFLUENCE OF SULFUR ON THE MAGNETIC PROPERTIES OF TITANIUM CONTAINING HIGH-COERCIVE FORCE ALNICO MAGNET ALLOYS WITH SULFUR 67-02 M15-60141
THE EFFECT OF THE ADDITION OF CHROMIUM ON THE PROPERTIES OF A NEW MAGNET ALLOY MALCOLLOY IN THE SYSTEM OF COBALT AND ALUMINUM
67-02 M15-60266
EFFECT OF THE ADDITION OF VANADIUM ON THE PROPERTIES OF A NEW HIGH MAGNETIC PERMEABILITY ALLOY NIMALLOY IN THE SYSTEM OF NICKEL AND MANGANESE 67-02 M15-60267
THE ANOMALOUS CHANGES OF THE MAGNETIC PROPERTY OF

MAGNETIC ALLOYS

A MUMETAL 67-02 M15-60278
INFLUENCE OF AN EXTERNAL MAGNETIC FIELD ON DOMAIN BOUNDARIES. PT. 1. FLAT 180 DEGREE DOMAIN BOUNDARY IN A MAGNETICALLY UNIAXED FERROMAGNETIC 67-02 M15-61158
NUCLEATION AND FORMATION OF A DOMAIN STRUCTURE IN MAGNETICALLY UNIAXED FERROMAGNETICS. PT. 1 67-02 M15-61160
EFFECT OF ELASTIC STRESSES ON THE MAGNETIC PROPERTIES OF A HIGH-COERCIVITY ALLOY ON THE SYSTEM FE-NI-CR 67-02 M15-61665
EFFECT OF HEAT TREATMENT ON THE MAGNETIC PROPERTIES OF CERTAIN ALLOYS OF THE SYSTEMS FE-MN AND FE-NI 67-02 M15-61928
MAGNETOSTRICTION OF THE METAMAGNETIC IRON-RHODIUM ALLOY 67-03 M15-65305
FERROMAGNETIC DOMAIN WALL INTERACTIONS USING LORENZ ELECTRON MICROSCOPY 67-03 M15-65893
STRUCTURE OF THE STRIPE DOMAINS OF ANOMALOUS MAGNETIC THIN FILMS 67-04 M15-66999
INCREMENTAL SUSCEPTIBILITY MATRICES AND THEIR MEASUREMENT IN FE-NI CUBIC TEXTURES 67-04 M15-67056
STATIC AND IMPULSE MAGNETIZATION AND MAGNETIC REVERSAL OF THIN FILMS 67-04 M15-67374
IMPURITY NUCLEUS RELAXATION IN FERROMAGNETIC METALS 67-04 M16-67487
MAGNETIZATION CURVE FOR THIN FERROMAGNETIC FILMS 67-06 M15-72370
EFFECTS OF STRAIN, PREFERRED ORIENTATION, AND LOCAL CRYSTALLITE SIZE VARIATION ON NEEL AND CROSS-TIE DOMAIN WALLS 67-07 M15-72642
MAGNETIC PROPERTIES OF SPLAT-COOLED FE-CO-V ALLOYS 67-07 M15-73507
PULSE INVESTIGATIONS OF MAGNETIC MULTILAYER STORAGE ELEMENTS AND NI-FE FILMS WITH DIFFUSED CU 67-07 M15-73806
DOMAIN CLEAVAGE AND THE CLEAVAGE ANGLE OF TEMPERED PERMALLOY FILMS 67-07 M15-73807
STRUCTURE AND MAGNETIC PROPERTIES OF CO-W AND CO-MO ALLOYS 67-09 M15-76697
THE EFFECT OF THE ADDITION OF TUNGSTEN ON THE PROPERTIES OF NEW MAGNET ALLOY--MALCOLLOY-- IN THE COBALT AND ALUMINUM SYSTEM 67-09 M15-77994
THE EFFECT OF THE ADDITION OF MANGANESE ON THE PROPERTIES OF NEW MAGNET ALLOY MALCOLLOY IN THE COBALT AND ALUMINUM SYSTEM 67-09 M15-77995
CHANGES IN MAGNETIC PROPERTIES OF FE-AL-NI-CO-TI HIGH-COERCIVITY PERMANENT MAGNET ALLOYS DURING THE AGING PROCESS 67-09 M15-78208
CRITICAL PARAMETERS OF EVAPORATED NIFE FILMS FOR FAST STORES 67-10 M15-78868
DOMAIN STRUCTURE OF ALNICO ALLOY SINGLE CRYSTALS WHICH ARE IN DIFFERENT STRUCTURAL STATES 67-10 M15-79835

MAGNETIC ALLOYS, MELTING
EFFECT OF MELTING METHODS ON THE PROPERTIES OF IRON-ALUMINIUM ALLOYS 67-02 M15-60290

MAGNETIC ALLOYS, MICROSTRUCTURE
THE MICROSTRUCTURE OF AL-NI ALLOYS 67-07 M13-73801

MAGNETIC ALLOYS, PHASE TRANSFORMATIONS
STRUCTURE OF TICONAL ALLOY AFTER HEAT TREATMENT IN A MAGNETIC FIELD 67-02 M14-60067
DISINTEGRATION OF THE SUPERSATURATED SOLID SOLUTION IN THE ALLOY OF ALNICO WITH TITANIUM 67-02 M14-61168
EFFECT OF ALUMINUM ON STRUCTURE AND PROPERTIES OF MAGNETIC ALLOYS 67-06 M15-70289
INFLUENCE OF CARBON IN MAGNICO ALLOYS 67-08 M14-74991
TRANSFORMATION OF METASTABLE PHASE FEAL AND CHANGES IN MAGNETIC PROPERTIES DURING ORDERING OF QUENCHED FE-AL ALLOY 67-09 M14-77296
STRUCTURAL CHANGES DURING HEAT TREATMENT OF MAGNICO ALLOYS 67-09 M14-77867

MAGNETIC ALLOYS, PHASES /STATE OF MATTER/
MULTICOMPONENT SUPERLATTICES OF VARIABLE COMPOSITION IN NI3FE AND NI3MN-BASE MAGNETIC ALLOYS 67-10 M13-79915

MAGNETIC ALLOYS, PHYSICAL PROPERTIES
SOLIDIFICATION TEMPERATURES OF PERMANENT MAGNET ALLOYS 67-04 M14-67949
RESEARCH INTO PERMANENT THERMAL CHANGES IN PERMALLOYS 67-10 M15-78958
COVANDUR --SOFT MAGNETIC ALLOY-- 67-11 M01-81250

MAGNETIC ALLOYS, POWDER METALLURGY
MAGNETICALLY SOFT POWDERED ALSIFER-TYPE MATERIALS 67-06 M09-71878

MAGNETIC ALLOYS, REFINING
RAISING THE LEVEL OF THE MAGNETIC PROPERTIES OF GRAIN-ORIENTED 50NP STEEL 67-02 M15-61878
IMPROVING THE MAGNETIC PROPERTIES OF 50NP TEXTURED ALLOY 67-04 M15-67697

MAGNETIC ALLOYS, REMANENCE
THE REMANENCE BEHAVIOR OF PERMANENT MAGNETIC MATERIALS 67-02 M15-61034

MAGNETIC ALLOYS, SINGLE CRYSTALS
MAGNETIC PROPERTIES OF ORDERED PT-CO 67-01 M15-58658

MAGNETIC ALLOYS, SUPERCONDUCTIVITY
DIRECT EVIDENCE OF PERSISTENT CURRENT LOOPS IN HARD SUPERCONDUCTING WIRE 67-04 M16-68072

MAGNETIC ALLOYS, THIN FILMS
EFFECTIVE TRIAXIAL ANISOTROPY IN TRIPLE-LAYERED THIN MAGNETIC FILMS 67-04 M15-66997

MAGNETIC ALLOYS, WELDING
DIFFUSION JOINING OF MAGNETIC ALLOYS IN A VACUUM 67-06 M11-70106

MAGNETIC ANISOTROPY
ORDER-DISORDER TRANSFORMATION AND MAGNETIC PROPERTIES IN IRON-NICKEL ALLOYS 67-01 M14-58659
EFFECTIVE BIAXIAL ANISOTROPY IN DOUBLE-LAYERED THIN MAGNETIC FILMS 67-01 M15-57111
ON PARTICULARITIES OF MAGNETIC PROPERTIES OF THIN FILMS WITH EXCHANGE ANISOTROPY 67-01 M15-57577
MAGNETIC PROPERTIES OF RARE-EARTH-IRON INTERMETALLIC COMPOUNDS 67-01 M15-58655
MAGNETOCRYSTALLINE ANISOTROPY OF YCO5 AND Y2CO17 67-01 M15-58656
MAGNETIC PROPERTIES OF ORDERED PT-CO 67-01 M15-58658
EFFECT OF DEFORMATION-INDUCED CRYSTAL IMPERFECTIONS ON MAGNETOCRYSTALLINE ANISOTROPY OF NICKEL SINGLE CRYSTALS 67-02 M13-61831
RELATION BETWEEN THE MAGNETIZATION, THE INDUCED MAGNETIC ANISOTROPY AND THE RECRYSTALLIZATION PROCESS OF A COLD ROLLED FERROMAGNETIC GAMMA-PHASE ALLOY IN THE CO-FE-CR-NI SYSTEM --ANISOTROPY INDUCED BY COLD WORKING IN A FERROMAGNETIC GAMMA-PHASE ALLOY IN THE CO-FE-CR-NI SYSTEM. PT. 2.-- 67-02 M15-59738
MAGNETIC AND IMPULSE PROPERTIES OF FERRITES CONTAINING VARIOUS AMOUNTS OF CO, SUBJECTED TO THERMOMAGNETIC TREATMENT 67-02 M15-59941
THE MAGNETORESISTANCE EFFECT AND THE ELECTRIC RESISTANCE OF SINGLE CRYSTALS OF COBALT 67-02 M15-60275
TEMPERATURE DEPENDENCE OF OBLIQUE-INCIDENCE ANISOTROPY IN PERMALLOY FILMS 67-02 M15-61510
MAGNETIC PROPERTIES OF SINGLE-CRYSTAL LAYERS OF FE, NI, CO AND THEIR ALLOYS 67-02 M15-61514
NEGATIVE OBLIQUE-INCIDENCE ANISOTROPY IN MAGNETOSTRICTION-FREE PERMALLOY FILMS 67-02 M15-61517
ON THE ORIGIN OF M-INDUCED ANISOTROPY IN NICKEL AND PERMALLOY FILMS 67-02 M15-61519
OBLIQUE-INCIDENCE ANISOTROPY IN COBALT FILMS 67-02 M15-61523
EPITAXIAL INFLUENCE OF THE SUBSTRATES ON THE ANISOTROPY IN THIN ELECTRODEPOSITED NI-FE CYLINDRICAL FILMS 67-02 M15-61529
THEORY OF COERCIVE FIELD STRENGTH OF HEXAGONAL COBALT SINGLE CRYSTALS 67-02 M15-61821
ANISOTROPY DISTRIBUTION AND NATURAL FERROMAGNETIC RESONANCE IN SINGLE-DOMAIN PARTICLES OF FE AND FE-CO ALLOY 67-02 M15-62072
EPITAXIAL FILMS OF IRON, NICKEL AND COBALT 67-02 M15-62078
THE EFFECT OF OXYGEN STOICHIOMETRY ON THE MAGNETO-CRYSTALLINE ANISOTROPY OF MAGNETITE 67-03 M15-65162
A HIGH-RESOLUTION METHOD OF INVESTIGATING THE MAGNETIC STRUCTURE OF SUPERCONDUCTORS 67-03 M15-65225
MAGNETIC ANISOTROPY IN COBALT FERROMAGNETIC THIN FILMS 67-04 M15-66815
EFFECTIVE TRIAXIAL ANISOTROPY IN TRIPLE-LAYERED THIN MAGNETIC FILMS 67-04 M15-66997
IN-SITU MEASUREMENTS OF MAGNETIC PROPERTIES IN VACUUM-DEPOSITED PERMALLOY FILMS 67-04 M15-67104
SUPER HIGH PERMEABILITY AND UNIAXIAL ANISOTROPY OF

5 MO-PERMALLOY 67-05 M15-69202
ORIGIN OF THE PERIODIC COMPONENT OF ANISOTROPY DISPERSION IN NI-FE THIN FILMS 67-05 M15-69289
ROTATIONAL ANISOTROPY IN PERMALLOY FILMS 67-05 M15-69388
MAGNETIC ANISOTROPY IN THE C-PLANE OF FE2AS 67-05 M15-69755
OBLIQUE-INCIDENCE ANISOTROPY AND DOMAIN CONFIGURATION IN NI-CO FILMS 67-05 M15-69762
SUBSTRATE TEMPERATURE DEPENDENCE OF OBLIQUE-INCIDENCE ANISOTROPY IN NI-FE FILMS 67-05 M15-69764
TEMPERATURE DEPENDENCE OF THE CRITICAL FIELD IN SUPERCONDUCTING VANADIUM 67-05 M16-69775
A NOVEL METHOD FOR THE MEASUREMENT OF CRYSTAL ANISOTROPY IN MAGNETIC FILMS 67-06 M15-70581
EXCHANGE ANISOTROPY IN THIN MAGNETIC FILMS 67-06 M15-70871
EXCHANGE ANISOTROPY IN THIN MAGNETIC FILMS 67-06 M15-71833
INFLUENCE OF HEAT TREATMENT ON THE MAGNETIC-CRYSTALLOGRAPHIC ANISOTROPY AND ROTATION-HYSTERESIS LOSS IN LITHIUM PENTAFERRITE SINGLE CRYSTALS 67-06 M15-71920
MAGNETIZATION CURVE FOR THIN FERROMAGNETIC FILMS 67-06 M15-72370
EFFECT OF ION DIFFUSION DURING HEAT AND THERMOMAGNETIC TREATMENTS ON THE MAGNETOCRYSTALLOGRAPHIC ANISOTROPY IN SINGLE CRYSTALS OF NICKEL-COBALT FERRITES 67-07 M15-72588
MAGNETIC AND IMPULSE PROPERTIES OF FERRITES WITH DIFFERENT AMOUNTS OF CO AFTER THERMOMAGNETIC TREATMENT 67-07 M15-72596
OBLIQUE-INCIDENCE MAGNETIC ANISOTROPY IN CODEPOSITED ALLOY FILMS 67-07 M15-72657
VOLUME- AND TEMPERATURE DEPENDENCE OF THE ANISOTROPIC MAGNETOSTRICTION OF IRON, NICKEL AND SOME IRON-ALLOYS 67-07 M15-73303
EFFECT OF ORDERING ON ROLLING-INDUCED MAGNETIC ANISOTROPY IN FECO-2V 67-07 M15-73504
A FAMILY OF NEW COBALT-BASE PERMANENT MAGNET MATERIALS 67-07 M15-73506
METALLURGY AND MAGNETIC PROPERTIES CONTROL IN PERMALLOY 67-07 M15-73538
RESONANCE METHOD FOR MEASUREMENT OF SMALL UNIAXIAL ANISOTROPY IN FINE FERROMAGNETIC WIRES 67-07 M15-73555
ANISOTROPY CONSTANT OF 50..50 NI-CO ALLOY FILMS 67-07 M15-73572
PARALLEL OBLIQUE-INCIDENCE ANISOTROPY IN NIFE FILMS 67-07 M15-73574
MAGNETOSTRESS EFFECTS IN EVAPORATED NI FILMS 67-07 M15-73575
DEPENDENCE OF MAGNETIC ANISOTROPY ON THE CRYSTAL STRUCTURE OF NI-FE THIN FILMS 67-07 M15-73576
BASAL-PLANE ANISOTROPY OF GADOLINIUM 67-07 M15-73582
MAGNETOCRYSTALLINE ANISOTROPY OF TWO YTTRIUM-COBALT COMPOUNDS 67-07 M15-73583
MAGNETIC ANISOTROPY OF TERBIUM AND DYSPROSIUM 67-07 M15-73584
PROPERTIES OF MANGANESE-PERMALLOY FILMS 67-07 M15-73590
UNIAXIAL ANISOTROPY AND ROTATIONAL HYSTERESIS IN THIN GADOLINIUM FILMS 67-07 M15-73592
MAGNETIC PROPERTIES AND ANNEALING BEHAVIOR OF ELECTRODEPOSITED NIFES THIN FILMS 67-07 M15-73596
MAGNETIC PERPENDICULAR ANISOTROPY OF NICKEL THIN FILMS EVAPORATED IN ULTRA HIGH VACUUM 67-07 M15-73988
NEW FERROMAGNETIC STATE OBSERVED DURING RECRYSTALLIZATION AND INDUCED MAGNETIC ANISOTROPY OF COLD ROLLED FERROMAGNETIC GAMMA-PHASE ALLOY 67-08 M15-74407
BEHAVIORS OF SOME MAGNETIC COMPOUNDS UNDER INTENSE MAGNETIC FIELDS 67-08 M15-74439
THE MAGNETOCRYSTALLINE ANISOTROPY OF IRON SELENIDE FE7SE8 67-08 M15-76173
MAGNETOCRYSTALLINE ANISOTROPY OF SINGLE-CRYSTAL EUROPIUM OXIDE 67-08 M16-75932
STRUCTURE AND MAGNETIC PROPERTIES OF CO-W AND CO-MO ALLOYS 67-09 M15-76697
EFFECT OF MAGNETIC ANNEALING ON THE MAGNETIZATION OF COBALT-FERRITE POWDERS 67-09 M15-76782
MAGNETIC STRUCTURES OF HOLMIUM. PT. 2. THE MAGNETIZATION PROCESS 67-09 M15-77688
MAGNETIC ANISOTROPY OF THIN FILMS OF COBALT AND FE-CO-NI ALLOYS 67-09 M15-77787
HYPERFINE MAGNETIC FIELDS AT COBALT NUCLEI IN DILUTE PDCO ALLOYS 67-09 M15-77969
MAGNETIC ANISOTROPY IN FERROMAGNETIC THIN FILMS 67-10 M15-78496
MEASURING THE MAGNETIC ANISOTROPY OF SINGLE CRYSTALS IN TRANSVERSE VOLTAGE FIELDS 67-10 M15-79016
TEMPERATURE DEPENDENCE OF MAGNETOCRYSTALLINE ANISOTROPY OF AN FE-AL ALLOY NEAR THE CONCENTRATION FE3AL 67-10 M15-79025
GALVANOMAGNETIC PROPERTIES OF MOLYBDENUM CRYSTALS IN STRONG EFFECTIVE FIELDS 67-10 M15-79539
MAGNETIC BEHAVIOR OF A EUTECTIC ALLOY FEATURING AN ALIGNED ARRAY OF IRON RODS 67-11 M15-80124
THE USE OF THE MAGNETO-OPTICAL KERR EFFECT FOR THE DETERMINATION OF MAGNETIZATION CURVES 67-11 M15-80230
THE MAGNETOCRYSTALLINE ANISOTROPY OF NI-CO FERRITES 67-11 M15-80615
INDUCED UNIAXIAL MAGNETIC ANISOTROPY OF FE-AL ALLOYS AT LOW CONCENTRATIONS 67-11 M15-80625
THE RELATIONSHIP BETWEEN THE MAGNETIC ANISOTROPY AND MAGNETIZATION ENERGY CONSTANTS OF CUBIC FACE CENTERED POLYCRYSTALLINE MATERIALS 67-11 M15-80722
THE ANISOTROPY OF MAGNETIC SUSCEPTIBILITY OF METALLIC SCANDIUM AND YTTRIUM 67-11 M15-80739
COERCIVE FORCE AND ANISOTROPY FIELD OF MULTI-LAYER PERMALLOY FILMS 67-11 M15-81053
PERPENDICULAR ANISOTROPY IN 81NI-19FE THIN FILMS 67-11 M15-81096
ELECTRON MICROSCOPIC STUDIES ON ORIGINS OF MAGNETIZATION RIPPLES IN FERROMAGNETIC THIN FILMS 67-12 M15-81761
MAGNETIC PROPERTIES OF ANOMALOUS NICKEL THIN FILMS 67-12 M15-81765
MICROMAGNETIC THEORY FOR MAGNETIZATION OF SINGLE CRYSTALS 67-12 M15-82221
TIME AND TEMPERATURE DEPENDENCE OF COERCIVITY OF ALNI A ALLOY 67-12 M15-82231
EFFECT OF DEPOSITION CONDITIONS ON ROTATING HYSTERESIS IN THIN FERROMAGNETIC FILMS 67-12 M15-82324
MAGNETIC ANISOTROPY OF IRON-COBALT ALLOYS 67-12 M15-82325
MAGNETIC STRUCTURE OF THE RARE EARTH METALS 67-12 M15-82644
VARIATIONS OF CRYSTAL MAGNETIC ANISOTROPY IN MO-PERMALLOY WITH HEAT TREATMENTS 67-12 M15-82899

MAGNETIC ANISOTROPY, ALLOYING EFFECTS
INFLUENCE OF SMALL ADMIXTURES OF CO2 PLUS ON THE FERROMAGNETIC RESONANCE OF NI-ZN-CR FERRITES SUBJECTED TO MAGNETOTHERMAL TREATMENT 67-06 M15-70518
EXCHANGE ANISOTROPY OF FE65--NI1-XMNX--35 ALLOYS 67-12 M15-81764

MAGNETIC ANISOTROPY, COMPOSITION EFFECTS
INDUCED ANISOTROPY IN MANGANESE FERRITE 67-07 M15-72664
NONMAGNETOSTRICTIVE COMPOSITIONS OF FE-NI-CO FILMS 67-11 M15-81097

MAGNETIC ANISOTROPY, PRESSURE EFFECTS
CHANGE OF THE MAGNETIC ANISOTROPY CONSTANT K1 OF NICKEL UNDER HYDROSTATIC PRESSURE 67-08 M15-75821
INFLUENCE OF RESIDUAL GAS AND VAPORIZED BASE METAL ON THE PROPERTIES OF PERMALLOY EVAPORATED COATINGS 67-12 M15-82230

MAGNETIC ANISOTROPY, TEMPERATURE EFFECTS
MAGNETIC ANISOTROPY INDUCED IN THIN FILMS AT LOW TEMPERATURES 67-02 M15-61511
MAGNETIC ANISOTROPY INDUCED BY MAGNETIC-FIELD COOLING THROUGH THE ANOMALY TEMPERATURE IN VANADIUM METAL 67-12 M15-81772

MAGNETIC ANNEALING
ISOTHERMAL MAGNETIC-ANNEALING EXPERIMENTS ON SUBSTITUTIONAL ALLOYS 67-07 M15-73508

MAGNETIC CLUTCHES
SEE CLUTCHES

MAGNETIC COOLING
MAGNETIC ANISOTROPY INDUCED BY MAGNETIC-FIELD COOLING THROUGH THE ANOMALY TEMPERATURE IN VANADIUM METAL 67-12 M15-81772

MAGNETIC CORES

MAGNETIC CORES

IS 3.25 PER CENT SI ORIENTED CORE STEEL THE ULTIMATE 67-07 M15-73512
DEVELOPMENT AND APPLICATION OF LOW-NOISE 6.5 PER CENT SI-FE SHEET 67-07 M15-73516
MAGNETIC CORES, MAGNETIC PROPERTIES
SOME PROPOSALS FOR THE STANDARDIZATION OF CORE TRAYS 67-07 M15-73815
MAGNETIC DOMAINS
THE OBSERVATION OF MAGNETIC MICROSTRUCTURES AS A METALLOGRAPHIC EXAMINATION METHOD 67-01 M13-58396
DOMAIN STRUCTURE OF HEXAGONAL FERRIMAGNETIC OXIDES WITH HIGH ANISOTROPY FIELD 67-01 M15-57120
INTERACTIONS BETWEEN DOMAIN WALLS IN COUPLED FILMS 67-01 M15-57557
COMPARISON OF MAGNETIC MEASUREMENTS AND THEORETICAL PREDICTIONS FOR NICKEL-IRON FILMS OVER A WIDE COMPOSITION RANGE 67-01 M15-57569
THE STRUCTURE AND POLARITY OF DOMAIN BOUNDARIES IN FERROMAGNETIC LAYERS 67-01 M15-57572
MAGNETOCRYSTALLINE ANISOTROPY OF YCO5 AND Y2CO17 67-01 M15-58656
INVESTIGATIONS OF THE DOMAIN STRUCTURE OF NICKEL SINGLE CRYSTALS 67-01 M15-58666
SLOW RELAXATION EFFECTS IN MAGNETICALLY NONUNIFORM MATERIALS 67-01 M15-58667
FIELDS IN CUBICAL TEXTURE IN THE PRESENCE OF A BIAS FIELD 67-01 M15-58671
THE MAGNETIZATION PROCESS IN NICKEL SINGLE CRYSTALS. PT. 1 67-01 M15-58779
ON THE INFLUENCE OF DEFECTS ON THE MAGNETIZATION PROCESSES TAKING PLACE ON THE SURFACE OF POLYCRYSTALLINE FE-SI SAMPLES 67-01 M15-58797
NEW METALLOGRAPHIC METHOD FOR REVEALING MAGNETIC PATTERNS IN FERRITE 67-02 M13-60749
MAGNETIC DOMAINS AND TECHNIQUES FOR THEIR OBSERVATION 67-02 M15-59901
MAGNETIC DOMAIN STRUCTURE OF THIN UNIAXIAL CRYSTALS 67-02 M15-60804
THE TEMPERATURE DEPENDENCE OF THE MAGNETIC DOMAIN STRUCTURE IN THIN COBALT CRYSTALS 67-02 M15-60805
MOBILITY AND LOSS MECHANISMS FOR DOMAIN WALL MOTION IN THIN FERROMAGNETIC FILMS 67-02 M15-61079
NUCLEATION AND FORMATION OF A DOMAIN STRUCTURE IN MAGNETICALLY UNIAXED FERROMAGNETICS. PT. 1 67-02 M15-61160
THEORY OF COERCIVE FIELD STRENGTH OF HEXAGONAL COBALT SINGLE CRYSTALS 67-02 M15-61821
RELATIONSHIP OF COERCIVE FORCE TO THICKNESS OF FERROMAGNETIC FILMS 67-02 M15-62073
POLARITY EFFECT OF INTERDOMAIN BOUNDARIES IN THIN MAGNETIC FILMS 67-02 M15-62075
EPITAXIAL FILMS OF IRON, NICKEL AND COBALT 67-02 M15-62078
A HIGH-RESOLUTION METHOD OF INVESTIGATING THE MAGNETIC STRUCTURE OF SUPERCONDUCTORS 67-03 M15-65225
THE MAGNETIC STRUCTURE OF PLASTICALLY DEFORMED CHROMIUM 67-03 M15-65397
FERROMAGNETIC DOMAIN WALL INTERACTIONS USING LORENZ ELECTRON MICROSCOPY 67-03 M15-65893
LORENTZ MICROSCOPY OF GROWING DOMAINS IN PERMALLOY FILMS 67-03 M15-65899
MAGNETIZING FINELY-DISPERSED PARTICLES OF FE-CO ALLOY 67-04 M15-66480
STRUCTURE OF THE STRIPE DOMAINS OF ANOMALOUS MAGNETIC THIN FILMS 67-04 M15-66999
MAGNETORESISTANCE AND EFFECT OF BLOCH WALLS IN ZONE-MELTED IRON 67-04 M15-67259
STATIC AND IMPULSE MAGNETIZATION AND MAGNETIC REVERSAL OF THIN FILMS 67-04 M15-67374
THE FORM OF LOCKING DOMAINS INSIDE SILICON IRON CRYSTALS 67-04 M15-67375
PARTIAL REMAGNETIZATION OF THIN FERROMAGNETIC FILMS 67-04 M15-67663
THE MAGNETOSTRICTION OF NI 67-04 M15-67730
TEMPERATURE-MAGNETIC HYSTERESIS IN THE HIGH-COERCIVITY ALLOY CO-PT 67-05 M15-68259
THE NON-PENETRATING DOMAIN STRUCTURE IN THIN PERMALLOY FILMS 67-05 M15-68856
ROTATIONAL ANISOTROPY IN PERMALLOY FILMS 67-05 M15-69388
INVESTIGATION OF THE MAGNETIC STRUCTURE OF THIN FILMS BY MEANS OF UEMV-100 ELECTRON MICROSCOPES 67-05 M15-69629
OBLIQUE-INCIDENCE ANISOTROPY AND DOMAIN CONFIGURATION IN NI-CO FILMS 67-05 M15-69762
DEFORMATION AND TEMPERATURE INFLUENCES ON MAGNETIC PROPERTIES OF NICKEL SINGLE CRYSTALS. PT. 1. DOMAIN WALL DISPLACEMENTS IN 110 AND 111 NICKEL SINGLE CRYSTALS 67-05 M15-69773
STUDY OF THE DOMAIN STRUCTURE OF NICKEL SINGLE CRYSTALS. PT. 2. MEASUREMENTS AND OBSERVATIONS ON PRISMATIC CRYSTALS WITH A --110-- AXIS 67-05 M15-69779
INTERACTION OF FERROMAGNETIC AND SUPERCONDUCTING THIN FILMS 67-05 M16-68905
INFLUENCE OF THE PERIODIC ANTI-PHASE DOMAIN STRUCTURE ON THE MECHANICAL PROPERTIES OF COPPER-PALLADIUM ALLOYS 67-05 M17-69384
REVIEW OF WALL CREEPING IN THIN MAGNETIC FILMS 67-06 M15-71417
THE DOMAIN STRUCTURE OF COBALT FERRITE 67-06 M15-71755
MICROMAGNETIC TREATMENT OF THE INTERACTION BETWEEN DISLOCATIONS AND BLOCH WALLS 67-07 M15-72953
SIMULATED DYNAMIC BEHAVIOR OF DOMAINS IN ORIENTED ELECTRICAL STEEL SHEETS 67-07 M15-73513
DOMAIN CONFIGURATION AND LOSSES IN CUBE-TEXTURED SILICON IRON 67-07 M15-73521
CONTRAST IN THE ELECTRON MICROSCOPE DUE TO STRAY MAGNETIC FIELDS NEAR SINGLE-DOMAIN IRON WHISKERS 67-07 M15-73554
NUCLEATION AND GROWTH OF REVERSE DOMAINS 67-07 M15-73556
ORIGIN OF STRIPE DOMAINS IN NI-FE FILMS 67-07 M15-73570
DOMAIN CLEAVAGE AND THE CLEAVAGE ANGLE OF TEMPERED PERMALLOY FILMS 67-07 M15-73807
DOMAIN WALL CREEPING IN UNIPOLAR NANOSECOND PULSE FIELDS 67-07 M15-73808
OBSERVATION OF DOMAIN STRUCTURE IN STRETCHED SPECIMENS OF HIGH-COERCIVITY VICALLOY ALLOY 67-08 M15-74634
CHANGE IN FORM OF DOMAIN STRUCTURE IN SINGLE CRYSTALS OF HIGH-COERCIVITY ALNICO ALLOY DURING MAGNETIC REVERSAL 67-08 M15-74635
DOMAIN-WALL MOTION IN BARIUM FERRITE SINGLE CRYSTALS 67-09 M15-77445
LARGE DISPLACEMENTS OF DOMAIN BOUNDARIES IN THIN FILMS 67-09 M15-77781
THE FREQUENCY DEPENDENCE OF DEMAGNETIZATION AND MAGNETIC LOSS IN SILICON IRON 67-10 M15-78567
THE MAGNETOELASTIC INTERNAL DAMPING IN IRON 67-10 M15-79482
TWO-LAYER FILMS OF MANGANESE-PERMALLOY WITH UNIDIRECTIONAL ANISOTROPY --FEATURES OF DOMAIN STRUCTURE-- 67-10 M15-79834
DOMAIN STRUCTURE OF ALNICO ALLOY SINGLE CRYSTALS WHICH ARE IN DIFFERENT STRUCTURAL STATES 67-10 M15-79835
FINE MAGNETIC DOMAIN STRUCTURES OF IRON, NICKEL AND COBALT FILMS 67-10 M15-79840
ELECTRON MIRROR OBSERVATION OF SUPER-CONDUCTORS IN THE INTERMEDIATE STATE 67-10 M16-78781
EVIDENCE FOR DOMAIN-WALL COMPRESSIBILITY IN PERMALLOY WIRE 67-11 M15-80126
INFLUENCE OF MAGNETOSTRICTION ON THE MAGNETIC DOMAIN STRUCTURE OF UNIAXIAL CRYSTALS, ESPECIALLY OF COBALT 67-12 M15-82012
DYNAMIC HYSTERESIS LOOPS IN THIN FILMS OF SI-FE ALLOY 67-12 M15-82223
DEPENDENCE OF PERMEABILITY OF GRAIN ORIENTED IRON-SILICON SHEET ON MAGNETIZATION FREQUENCY 67-12 M15-82224
THE RAYLEIGH REGION IN NICKEL 67-12 M15-82225
DOMAIN WALL ENERGY MEASUREMENTS USING NARROW PERMALLOY STRIPS 67-12 M15-83275
THE DOMAIN STRUCTURE OF COBALT AND MAGNETOPLUMBITE CRYSTALS IN THE RESIDUALLY MAGNETIZED AND DEMAGNETIZED STATES 67-12 M15-83364
MAGNETIC DOMAINS, CRYSTAL LATTICES
EFFECTS OF STRAIN, PREFERRED ORIENTATION, AND LOCAL CRYSTALLITE SIZE VARIATION ON NEEL AND CROSS-TIE DOMAIN WALLS 67-07 M15-72642
MAGNETIC DOMAINS, HEATING EFFECTS
MAGNETIC DOMAIN STRUCTURE OF NI-MN ALLOY 67-02 M15-59477
MAGNETIC DOMAINS, STRESS EFFECTS
FERROMAGNETIC DOMAIN STRUCTURE OF IRON WHISKERS WITH --111-- AXES 67-01 M15-58654
MAGNETIC PROPERTIES OF MNAL SYSTEM ALLOYS 67-01 M15-58670

THE EFFECT OF MAGNETIC TEXTURE ON THE PROCESSES OF MAGNETIC REVERSAL OF FERROMAGNETICS 67-02 M15-62076
EFFECT OF UNIAXIAL STRESS ON DOMAIN STRUCTURE OF PERMALLOY FILMS 67-09 M15-77788

MAGNETIC DOMAINS, TEMPERATURE EFFECTS
TEMPERATURE DEPENDENCE AND CRITICAL TEMPERATURE OF MAGNETIC DOMAIN STRUCTURES IN THIN FILMS 67-04 M15-67471

MAGNETIC EFFECTS
SEE MAGNETIC PROPERTIES

MAGNETIC FIELDS
EFFECTS OF GASES ON THE PROPERTIES OF VAPOR-DEPOSITED NI-FE FILMS 67-01 M15-57113
TEMPERATURE DEPENDENCE OF CRITICAL FIELDS IN HIGH FIELD SUPERCONDUCTORS 67-01 M16-57450
MEASUREMENT OF CRITICAL FIELD HC3 AND CRITICAL SURFACE CURRENT IN SUPERCONDUCTING V-TI ALLOYS UP TO 30 KOE 67-01 M16-57959
CRITICAL FIELDS OF TYPE 2 SUPERCONDUCTORS IN THE PRESENCE OF ELECTRON SPIN EFFECTS 67-01 M16-58630
IMPROVEMENT IN MAGNETIC PROPERTIES OF MNAL-B PERMANENT MAGNETS BY SWAGING WORKING 67-02 M15-59741
CRITICAL MAGNETIC FIELDS IN SUPERCONDUCTING FILMS OF INDIUM 67-02 M16-60527
HYPERFINE MAGNETIC FIELDS IN IRON-PALLADIUM ALLOYS 67-03 M16-65139
THE TEMPERATURE DEPENDENCE OF HYPERFINE FIELDS IN DILUTE FECU ALLOYS 67-03 M16-65141
CRITICAL MAGNETIC FIELDS OF SUPERCONDUCTING SNTE 67-03 M16-65142
SUPERCONDUCTING CRITICAL FIELDS, CURRENTS AND TEMPERATURES IN THE NB-ZR-N TERNARY SYSTEM 67-03 M16-65390
SECOND-KIND SUPERCONDUCTIVITY OF INDIUM-LEAD ALLOYS 67-03 M16-65635
MAGNETIC PROPERTIES OF SUPERCONDUCTING SN FILMS 67-03 M16-65646
INVESTIGATING ARC MOTION IN A MAGNETIC FIELD 67-04 M11-66427
EFFECT OF A MAGNETIC FIELD ON THE RECRYSTALLIZATION TEXTURE OF IRON 67-04 M14-67651
EFFECT OF ANNEALING IN A MAGNETIC FIELD APPLIED ALONG THE HARD OR EASY AXIS, ON THE PROPERTIES OF THIN MAGNETIC FILMS 67-04 M15-67659
MAGNETIC PROPERTIES OF SUPERCONDUCTING MO-RE ALLOYS 67-04 M16-68140
MAGNETIC HYPERFINE STRUCTURE OF THE GD155 LEVELS IN METALLIC GADOLINIUM AND IN THE INTERMETALLIC COMPOUND GDAL2 67-05 M16-69028
THE ROLE OF SURFACE TREATMENT IN THE FIELD EFFECT ANOMALY OF N-TYPE INSB AT HIGH MAGNETIC FIELDS 67-06 M15-71025
SUPERHEATING AND SUPERCOOLING IN TYPE I SUPERCONDUCTORS--TIN 67-06 M16-70464
UPPER-CRITICAL-FIELD LIMITS FOR BULK TYPE 2 SUPERCONDUCTORS 67-06 M16-71517
EFFECT OF FERROMAGNETIC CONSTRUCTION ELEMENTS ON THE MAGNETIC FIELD IN THE MELTING ZONE OF LARGE ALUMINUM-ELECTROLYSIS CELLS 67-07 M03-72783
THE MOVEMENT OF ARCS IN MAGNETIC FIELDS 67-07 M15-72686
THE HYPERFINE MAGNETIC FIELD ON RH103 NUCLEI IN THE ORDERED FE0.52RH0.48 ALLOY 67-07 M15-73494
CONTRAST IN THE ELECTRON MICROSCOPE DUE TO STRAY MAGNETIC FIELDS NEAR SINGLE-DOMAIN IRON WHISKERS 67-07 M15-73554
THERMALLY INDUCED PARALLEL MAGNETIC COUPLING IN COUPLED THIN FILMS 67-07 M15-73595
FIELD-DEPENDENT MAGNETIC SUSCEPTIBILITY OF MNO 67-07 M15-73603
PROBLEMS IN THE DEVELOPMENT AND USE OF SILICON-IRONS, ORIENTED CRYSTAL AND NONORIENTED 67-07 M15-73811
THE TEMPERATURE DEPENDENCE OF THE CRITICAL FIELD HC2 IN SOLID SOLUTION NB-TA ALLOYS 67-07 M16-73495
HYPERFINE FIELDS IN FE-SI ALLOYS 67-07 M16-73525
PALLADIUM HYPERFINE FIELD IN FERROMAGNETIC PD-FE ALLOYS 67-07 M16-73526
CRITICAL SURFACE CURRENTS AND THE ANGULAR DEPENDENCE OF THE SURFACE CRITICAL FIELD OF A TYPE 2 SUPERCONDUCTOR 67-07 M16-74058
SEMICONDUCTORS AND SEMIMETALS. V. 1. PHYSICS OF 3-V COMPOUNDS 67-07 M16-74201
INFLUENCE OF MAGNETIC FIELD ON SURFACE FIELD-EFFECT IN GERMANIUM 67-08 M15-75079
THERMOMAGNETIC EFFECTS IN ANISOTROPIC MEDIA 67-08 M15-75224
RADIOFREQUENCY SIZE EFFECTS IN CADMIUM IN MAGNETIC FIELDS INCLINED TO THE SAMPLE SURFACE 67-08 M15-75233
EFFECT OF DEGREE OF CRYSTAL LATTICE DISTORTION OF METAL ON ITS SUPERCONDUCTIVITY 67-08 M15-75259
INTERACTION OF CONDUCTION AND INDUCED CURRENTS IN NB3ZR WIRES SUBJECTED TO AXIAL FIELDS 67-08 M15-75553
MAGNETIC DEFORMATION OF CYLINDRICAL WORKPIECES 67-08 M15-75675
NONLINEAR AND NONLOCAL EFFECTS ON THE CRITICAL MAGNETIC FIELD FOR SUPERCONDUCTING IN-SN ALLOYED FILMS 67-08 M16-75081
QUANTUM OSCILLATIONS OF THE NERNST-ETTINGSHAUSEN EFFECT IN INDIUM ARSENIDE 67-08 M16-75246
THE PHYSICAL LAWS OF ELECTRIC WELDING AND THE UTILIZATION OF MAGNETIC FIELDS. PT. 1 67-09 M11-77106
MAGNETORESISTANCE AND CONDUCTION ELECTRON-IMPURITY SPIN COUPLING IN DILUTE SILVER ALLOYS 67-09 M15-76372
HYPERFINE MAGNETIC FIELDS AT COBALT NUCLEI IN DILUTE PDCO ALLOYS 67-09 M15-77969
ELASTIC HYSTERESIS OF THERMOELECTROMOTIVE FORCE OF FE-NI ALLOYS 67-10 M15-79233
ON THE THEORY OF THERMOMAGNETIC TREATMENT OF HIGH COERCIVE ALLOYS OF THE TICONAL TYPE 67-10 M15-79838
DEPENDENCE OF THE CRITICAL CURRENT ON THE MAGNETIC FIELD STRENGTH AND EXPERIMENTAL REGULARITIES IN THE CHARACTER OF THE DESTRUCTION OF THE SUPERCONDUCTIVITY OF NIOBIUM BY A CURRENT AND A MAGNETIC FIELD 67-10 M16-79459
HYPERFINE MAGNETIC FIELDS AT COBALT AND TIN NUCLEI IN DILUTE ALLOYS 67-11 M15-80190
MAGNETIC FIELD DEPENDENCE OF CURRENT OSCILLATIONS IN PIEZOELECTRIC SEMICONDUCTORS 67-11 M15-80604
THE MAGNETOCRYSTALLINE ANISOTROPY OF NI-CO FERRITES 67-11 M15-80615
INTERNAL MAGNETIC FIELDS AT SN119 NUCLEI IN HEUSLER ALLOYS 67-11 M15-80783
COERCIVITY MEASUREMENTS OF COLD ROLLED MO-PERMALLOY BY A-C AND D-C METHODS 67-11 M15-81098
HYPERFINE FIELDS IN FE-PD-H ALLOYS 67-11 M15-81669
VARIATIONS OF YOUNGS MODULUS THROUGHOUT THE MIXED STATE IN NIOBIUM 67-11 M17-80231
GUREVICH MAGNETOMORPHIC OSCILLATIONS IN SINGLE CRYSTALS OF ALUMINUM AT HELIUM TEMPERATURES 67-12 M15-82526
ACOUSTOELECTRIC OSCILLATIONS WITH FIELD-DEPENDENT PERIOD IN INDIUM ANTIMONIDE 67-12 M15-83010
THE STABILITY OF CYLINDRICAL PERMALLOY FILMS IN AN INHOMOGENEOUS MAGNETIC FIELD 67-12 M15-83011
NUCLEAR MAGNETIC RESONANCE STUDIES OF CUCR2SE4 AND CUCR2TE4 67-12 M16-81770

MAGNETIC FIELDS, SIZE EFFECTS
CALCULATION OF NUCLEATION FIELD STRENGTH IN CYLINDRICAL IRON SPECIMENS 67-12 M15-82226

MAGNETIC FIELDS, TEMPERATURE EFFECTS
THE PENETRATION DEPTH IN TWO BAND MODEL SUPERCONDUCTORS 67-08 M16-75238

MAGNETIC FILMS, ANISOTROPY
OBLIQUE-INCIDENCE MAGNETIC ANISOTROPY IN CODEPOSITED ALLOY FILMS 67-07 M15-72657

MAGNETIC FILMS, COATING
PLATED-WIRE MEMORIES--UNIVACS BET TO REPLACE TOROIDAL FERRITE CORES 67-08 M12-74474

MAGNETIC FILMS, COATINGS
REVIEW OF DEPOSITED METALLIC FILMS FOR COMPUTER APPLICATION 67-06 M12-71380
THE ELECTRODEPOSITION OF THIN MAGNETIC PERMALLOY FILMS 67-07 M12-73589

MAGNETIC FILMS, DEPOSITION
LABORATORY APPARATUS FOR PREPARING THIN MULTILAYER FILMS BY VACUUM VAPORIZATION 67-04 M12-68086
ELECTRODEPOSITION OF THIN MAGNETIC FILMS IN THE NI-FE-CU SYSTEM 67-07 M12-73593

MAGNETIC FILMS, MAGNETIC PROPERTIES
EFFECTIVE BIAXIAL ANISOTROPY IN DOUBLE-LAYERED THIN MAGNETIC FILMS 67-01 M15-57111
ON PARTICULARITIES OF MAGNETIC PROPERTIES OF THIN FILMS WITH EXCHANGE ANISOTROPY 67-01 M15-57577

MAGNETIC FILMS

EPITAXIAL INFLUENCE OF THE SUBSTRATES ON THE ANISOTROPY IN THIN ELECTRODEPOSITED NI-FE CYLINDRICAL FILMS 67-02 M15-61529
RELATIONSHIP OF THE COERCIVITY OF THIN FERROMAGNETIC FILMS TO CERTAIN FACTORS 67-04 M15-66482
MAGNETIC ANISOTROPY IN COBALT FERROMAGNETIC THIN FILMS 67-04 M15-66815
STRUCTURE OF THE STRIPE DOMAINS OF ANOMALOUS MAGNETIC THIN FILMS 67-04 M15-66999
LOCKING EFFECT ON MAGNETIZATION REVERSAL IN MAGNETIC THIN FILMS 67-04 M15-68170
MAGNETIZATION REVERSALS DRIVEN BY SINUSOIDAL FIELDS IN MAGNETIC THIN FILMS 67-04 M15-68171
A NOVEL METHOD FOR THE MEASUREMENT OF CRYSTAL ANISOTROPY IN MAGNETIC FILMS 67-06 M15-70581
REVIEW OF WALL CREEPING IN THIN MAGNETIC FILMS 67-06 M15-71417
MAGNETIC THIN FILMS DEPOSITED ONTO A LIQUID-LIKE SURFACE 67-06 M15-71547
EXCHANGE ANISOTROPY IN THIN MAGNETIC FILMS 67-06 M15-71833
PULSE INVESTIGATIONS OF MAGNETIC MULTILAYER STORAGE ELEMENTS AND NI-FE FILMS WITH DIFFUSED CU 67-07 M15-73806
DOMAIN CLEAVAGE AND THE CLEAVAGE ANGLE OF TEMPERED PERMALLOY FILMS 67-07 M15-73807

MAGNETIC FILMS, THIN FILMS

EFFECTIVE TRIAXIAL ANISOTROPY IN TRIPLE-LAYERED THIN MAGNETIC FILMS 67-04 M15-66997

MAGNETIC FILMS, WAVE MECHANICS

THEORY OF MAGNETOELASTIC INTERACTION IN THIN MAGNETIC FILM 67-04 M16-66493

MAGNETIC FLUX

SUPERCONDUCTING FLUXLINE PINNING BY TWIN BOUNDARIES 67-02 M15-61536
FLUX TRAPPING IN ROTATING SUPERCONDUCTORS 67-04 M16-66178
COBALT-PLATINUM ROTORS FOR SMALL SYNCHRONOUS DEVICES--ECONOMICS OF DESIGN AND CONSTRUCTION 67-05 M20-69715
MAGNETS MADE OF THE PERMANENT MAGNET MATERIALS OXIT AND OXILIT FOR THE FIELD EXCITATION OF D-C MOTORS 67-08 M20-75068

MAGNETIC FLUX, COMPOSITION EFFECTS

THE EFFECT OF THE ADDITION OF CHROMIUM ON THE PROPERTIES OF A NEW MAGNET ALLOY MALCOLLOY IN THE SYSTEM OF COBALT AND ALUMINUM 67-02 M15-60266

MAGNETIC FLUX WELDING

SEE GAS METAL ARC WELDING

MAGNETIC FORCE

SEE MAGNETIC FIELDS
MAGNETIC FLUX

MAGNETIC FORCE WELDING

MAGNETIC FORCE WELDING TAMES EXOTICS 67-04 M11-67632
FUNDAMENTALS OF MAGNETIC PULSE WELDING 67-06 M11-71218

MAGNETIC FORMING

NEW FRONTIERS IN METAL FORMING--MAGNETICS 67-01 M07-57950
SHAPING METAL MAGNETICALLY 67-01 M08-58522
DEFORMING METAL BY PULSING MAGNETIC FIELD 67-02 M08-59820
HIGH ENERGY ELECTRICAL FORMING 67-02 M08-60110
A LOOK AT SOME UNCONVENTIONAL NEW METAL-FORMING METHODS 67-03 M07-65400
HIGH-VELOCITY FORMING OF METALS 67-04 M08-66590
PRINCIPLES AND PRACTICES OF EXPLOSIVE FORMING 67-05 M08-69735
A SURVEY OF H. E. R. FORMING 67-05 M08-69736
NEW METHODS OF FORMING STEEL 67-06 M07-72009
SINGULARITIES OF THE MECHANISM OF THE HIGH-SPEED DEFORMATION OF COPPER 67-06 M13-72356
MAGNETISM TAMED FOR FORMING 67-07 M07-73693
VARIETY OF HERF METHODS USED FOR GD/FORT WORTHS F-111 67-08 M08-74732
SHOCK FORMING BANGS OUT COMPLEX PARTS ACCURATELY 67-08 M08-74740
SMALL MAGNETIC IMPACT FORMING DEVICE 67-08 M09-74933
HIGH VELOCITY METALWORKING 67-09 M08-77382
BONDING OF ALUMINUM BY THE CAPACITOR DISCHARGE MAGNETIC FORMING PROCESS 67-09 M11-77948
DEVELOPMENTS IN THE FORMING OF METALS 67-10 M08-79307
EFFECT OF MAGNETIC IMPULSE DEFORMATION ON THE MECHANICAL PROPERTIES OF NICKEL, IRON AND COPPER 67-11 M17-81662

MAGNETIC HYSTERESIS

SEE HYSTERESIS

MAGNETIC INDUCTION

SEE ALSO ELECTROMAGNETIC INDUCTION
FURTHER INVESTIGATION OF RELAXATION PHENOMENA IN FE-SI-C--N-- ALLOYS 67-01 M17-57584
IMPROVEMENT IN MAGNETIC PROPERTIES OF MNAL-B PERMANENT MAGNETS BY SWAGING WORKING 67-02 M15-59741
PHASE TRANSFORMATIONS IN COLD STRAINED IRON-MANGANESE ALLOYS 67-04 M15-66621
PULSED NMR IN FE 67-07 M16-73527
INFLUENCE OF THE CARBIDE PHASE ON THE PROPERTIES OF TRANSFORMER STEEL 67-08 M15-74988

MAGNETIC MATERIALS

SEE ALSO FERROMAGNETIC MATERIALS
MAGNETIC ALLOYS
MAGNETITE
PARAMAGNETIC MATERIALS
PERMALLOY

PRODUCTION METHOD FOR MAGNETIC WIRE 67-02 M08-60948
VACUMET HYMU 800 67-06 M01-71158
WANTED.. MATERIALS THAT DO NOT EXIST 67-06 M01-71238

MAGNETIC MATERIALS, AEROSPACE ENGINES

MAGNETIC MATERIALS FOR SPACE POWER SYSTEMS 67-07 M20-73531

MAGNETIC MATERIALS, CRYSTAL GROWTH

CHEMICAL VAPOR GROWTH OF SINGLE-CRYSTAL MAGNETIC OXIDE FILMS 67-07 M14-73523

MAGNETIC MATERIALS, CRYSTAL STRUCTURE

CRYSTAL STRUCTURE AND MAGNETIC PROPERTIES OF HIGH-COERCIVITY MN-AL ALLOY 67-06 M15-72340

MAGNETIC MATERIALS, ENERGY

MAGNETIC CRYSTAL ENERGY CONSTANTS K1, K2, K3 OF NICKEL-IRON ALLOYS 67-05 M15-68340

MAGNETIC MATERIALS, HEAT TREATMENT

EFFECT OF ANNEALING IN A MAGNETIC FIELD APPLIED ALONG THE HARD OR EASY AXIS, ON THE PROPERTIES OF THIN MAGNETIC FILMS 67-04 M15-67659
STUDY OF THE EFFECT OF TITANIUM ON ALNICO ALLOYS CONTAINING 34 PER CENT COBALT 67-06 M14-70598

MAGNETIC MATERIALS, MAGNETIC PROPERTIES

DOMAIN STRUCTURE OF HEXAGONAL FERRIMAGNETIC OXIDES WITH HIGH ANISOTROPY FIELD 67-01 M15-57120
EFFECTS OF NEUTRON-RADIATION ON MAGNETIC MATERIALS 67-04 M15-67319
CONTRIBUTION TO THE TEMPERATURE DEPENDENCE OF THE MAGNETIC PROPERTIES OF PERMANENT MAGNET MATERIALS 67-08 M15-75987

MAGNETIC MATERIALS, PHASES /STATE OF MATTER/

ORDERING AND MAGNETIC TRANSFORMATION IN AN FE-AL ALLOY 67-05 M14-69641

MAGNETIC MATERIALS, POWDER METALLURGY

TRENDS IN THE DEVELOPMENT OF SINTERED MATERIALS 67-02 M09-60205
RECENT DEVELOPMENT TRENDS IN POWDER METALLURGY 67-07 M09-73898
USE OF POWDER COMPOSITE MAGNETIC CONDUCTORS IN ALTERNATING CURRENT DEVICES 67-08 M20-74912
SOFT MAGNETIC MATERIALS OBTAINED BY ROLLING METAL POWDERS 67-09 M09-76569
PRODUCTION OF POWDER COMPOSITE FERROSILICON MAGNETIC CONDUCTORS WITH PLANAR DIELECTRIC LAYERS 67-09 M09-76570

MAGNETIC MATERIALS, REFINING

THE ELECTRON BEAM MELTING OF SOFT MAGNETIC FERROUS MATERIALS 67-08 M04-74444

MAGNETIC MATERIALS, ROLLING

METHOD FOR MAKING BIDIRECTIONAL IRON-ALUMINIUM ALLOY MAGNETIC SHEET 67-02 M07-60949

MAGNETIC MATERIALS, SPECIFICATIONS

HIPERCO 50 --SOFT MAGNETIC ALLOY-- 67-04 M01-66324

MAGNETIC MEASUREMENTS

PRECIPITATION PROCESSES IN ALNICO 67-01 M14-58661
GALVANO-MAGNETIC EFFECT OF COBALT IN THE EPSILON-GAMMA TRANSFORMATION RANGE 67-01 M15-57355
PROCESSES OF CARBIDE TRANSFORMATION ON THE TEMPERING OF STEEL 67-01 M15-57357
UPPER LIMITS OF THE MAGNETIC HYSTERESIS OF CERTAIN FERROMAGNETICS 67-01 M15-57364
SOME MAGNETIC PROPERTIES OF NI-EU ALLOYS

67-01 M15-57365
FERROMAGNETIC DOMAIN STRUCTURE OF IRON WHISKERS WITH --111-- AXES 67-01 M15-58654
MAGNETIC PROPERTIES OF RARE-EARTH-IRON INTERMETALLIC COMPOUNDS 67-01 M15-58655
MAGNETOCRYSTALLINE ANISOTROPY OF YCO5 AND Y2CO17 67-01 M15-58656
MAGNETIC PROPERTIES OF ORDERED PT-CO 67-01 M15-58658
HYSTERESIS LOOP ASYMMETRY INDUCED BY MAGNETIC ANNEALING IN FE-AL ALLOY 67-01 M15-58660
INVESTIGATIONS OF THE DOMAIN STRUCTURE OF NICKEL SINGLE CRYSTALS 67-01 M15-58666
SLOW RELAXATION EFFECTS IN MAGNETICALLY NONUNIFORM MATERIALS 67-01 M15-58667
MINOR LOOP LOSS PREDICTIONS IN DEVICES USING PERMANENT MAGNET MATERIALS 67-01 M15-58668
THE MAGNETIC PROPERTIES OF SIGMA PHASE ALLOYS 67-01 M15-58669
MAGNETIC PROPERTIES OF MNAL SYSTEM ALLOYS 67-01 M15-58670
FIELDS IN CUBICAL TEXTURE IN THE PRESENCE OF A BIAS FIELD 67-01 M15-58671
MAGNETIC PROPERTIES OF GRAIN ORIENTED SILICON STEEL UNDER SINUSOIDAL EXCITING CURRENT 67-02 M15-59081
THE MAGNETIC CHARACTERISTICS OF IRON CORE IN FREQUENCY MULTIPLIER 67-02 M15-59082
MAGNETIC DOMAINS AND TECHNIQUES FOR THEIR OBSERVATION 67-02 M15-59901
MAGNETIC PROPERTIES OF IRON-NEODYMIUM ALLOYS .. 67-02 M15-61678
MAGNETIC PROPERTIES OF V-TA ALLOYS 67-02 M15-61679
MEASUREMENT OF THE NORMAL COMPONENT OF SWITCHING SIGNALS IN MAGNETIC THIN FILMS 67-03 M15-65159
A MAGNETIC SUSCEPTIBILITY APPARATUS FOR WEAKLY MAGNETIC METALS, AND THE SUSCEPTIBILITY OF PURE COPPER IN THE RANGE 6-300 K 67-03 M15-65737
MOSSBAUER EFFECT IN IRON CONTAINING THIRD SERIES TRANSITION ELEMENTS 67-03 M16-65745
SUSCEPTIBILITY OF THE PARAPROCESS OF ELINVAR ALLOYS 67-04 M15-66481
MAGNETIZATION PROCESSES IN THE HIGH-FIELD RANGE OF FERROMAGNETICS MADE BY PRESSING FERROMAGNETIC PARTICLES 67-04 M15-66484
MAGNETIC PROPERTIES OF DY-Y ALLOYS 67-04 M15-67913
CONTINUOUS MEASUREMENT OF SINTER QUALITY 67-05 M02-68537
THERMOMAGNETIC TREATMENT OF 66-PERMALLOY AND SILICON IRON IN A ROTATING MAGNETIC FIELD 67-05 M15-68257
MAGNETIC SUSCEPTIBILITY MEASUREMENTS OF RUTILE AND THE MAGNELI PHASES OF THE TI-O SYSTEM 67-05 M15-69523
DETERMINATION OF THE LOSS IN AN ALTERNATING FIELD ON A THIN FILM OF SUPERCONDUCTING NB-25 PER CENT ZR 67-05 M16-69097
STUDY OF THE REDUCTION OF IRON OXIDES USING THE MAGNETIC METHOD 67-06 M04-69964
A MAGNETIC DEVICE FOR DETECTING PHASE CHANGES AT ELEVATED TEMPERATURES 67-06 M14-71011
A NOVEL METHOD FOR THE MEASUREMENT OF CRYSTAL ANISOTROPY IN MAGNETIC FILMS 67-06 M15-70581
INVESTIGATION OF THE MAGNETIC STRUCTURE OF A FERROMAGNETIC SUBSTANCE BY MAGNETO-OPTIC APPARATUS WITH MICRON RESOLUTION 67-06 M15-71922
THE APPLICATIONS AND ADVANTAGES OF AIR COILS --OR PNEUMATIC COILS-- FOR A CONTINUOUS AUTOMATIC RECORDING OF THE MAGNETIC VALUES OF SILICON STEEL STRIP 67-07 M10-73809
AUTOMATED INDUCTION MAGNETOMETER 67-07 M19-73553
MAGNETIC MEASUREMENT TECHNIQUES FOR THIN FILMS AND SMALL PARTICLES 67-07 M19-73605
ROTATING FIELD MAGNETOMETER FOR MEASUREMENT OF ANISOTROPIC MAGNETIC MATERIALS 67-08 M15-74932
FURTHER EVIDENCE OF NAGAOKAS BOUND STATE FOR CONDUCTION ELECTRONS IN DILUTE ALLOYS 67-08 M15-75925
INVESTIGATION OF THE MAGNETIC STRUCTURE OF FERROMAGNETIC SUBSTANCES BY A MAGNETOOPTICAL APPARATUS WITH MICRON RESOLUTION 67-10 M15-79541
PERPENDICULAR ANISOTROPY IN 81NI-19FE THIN FILMS 67-11 M15-81096
CRYSTALLOGRAPHIC STUDY OF THE COMPOSITION FEXGA2-XO3 USING POLARIZED NEUTRONS 67-11 M15-81674
A METHOD FOR EVALUATING THE STABILITY OF COMPOSITE SUPERCONDUCTORS 67-11 M16-81086

MAGNETIC MEASUREMENTS, SIZE EFFECTS
INTRINSIC SIZE EFFECTS IN TYPE-2 SUPERCONDUCTING FILMS 67-08 M16-75929

MAGNETIC MOMENT
THE MAGNETIC STRUCTURE OF URANIUM MONOPHOSPHIDE 67-01 M15-57983
MAGNETIC PROPERTIES OF RARE-EARTH-IRON INTERMETALLIC COMPOUNDS 67-01 M15-58655
LOCALIZED MAGNETIC MOMENTS IN MN4N 67-03 M15-65638
ELECTRIC AND MAGNETIC PROPERTIES OF VO 67-04 M15-67486
ELECTRICAL RESISTIVITY, THERMAL CONDUCTIVITY AND MAGNETIC SUSCEPTIBILITY OF POLYCRYSTALLINE SAMARIUM AT LOW TEMPERATURES 67-04 M15-68152
EXPERIMENTAL TESTS OF THE CRITICAL-STATE MODEL FOR HYSTERETIC SUPERCONDUCTORS 67-04 M16-67179
ON THE VANADIUM-OXYGEN SYSTEM.. CONFIRMATION OF THE VO2.33 --V3O7-- PHASE BY MAGNETOCHEMISTRY 67-05 M14-68911
THE ANTIFERROMAGNETISM IN THE UNORDERED ALLOY NI3MN 67-05 M15-68855
MAGNETIC STRUCTURE TRANSFORMATION IN MNPT 67-05 M15-69375
MOSSBAUER EFFECT STUDY OF BCC STRUCTURE ALLOYS, FEAL AND FETI 67-06 M15-70418
MAGNETIC PROPERTIES OF ZINC-RICH ZINC-MANGANESE ALLOYS IN THE LIQUID AND SOLID STATE 67-06 M15-71662
LOCALIZED MAGNETIC MOMENTS IN IMPURITY-BANDED SEMICONDUCTORS 67-07 M15-73179
MAGNETIC FORM FACTOR OF NI IN THE PARAMAGNETIC STATE 67-07 M15-73543
MAGNETIC PROPERTIES OF THE IRON-GROUP METAL PHOSPHIDES 67-07 M15-73545
NMR STUDIES OF NI-PD AND NI-RU ALLOYS 67-07 M15-73992
THE PARAMAGNETIC FORM FACTOR OF GADOLINIUM 67-07 M16-73585
FURTHER EVIDENCE OF NAGAOKAS BOUND STATE FOR CONDUCTION ELECTRONS IN DILUTE ALLOYS 67-08 M15-75925
NEUTRON DIFFRACTION STUDY OF FESN 67-08 M15-76170
QUENCHING OF MAGNETIC MOMENT AT LOW TEMPERATURES IN DILUTE AU-V ALLOYS 67-08 M15-76174
ANALYSIS OF THE MAGNETIC HYPERFINE STRUCTURE OBSERVED USING THE MOSSBAUER EFFECT IN TM METAL 67-08 M16-75835
MAGNETOCRYSTALLINE ANISOTROPY OF SINGLE-CRYSTAL EUROPIUM OXIDE 67-08 M16-75932
MAGNETIC STRUCTURE OF INTERMETALLIC COMPOUND PRCO2 67-09 M15-77971
MAGNETIC PROPERTIES OF THE COMPOUND MN3GE2 IN STRONG MAGNETIC FIELDS 67-10 M15-79540
STUDY OF THE ROTATION OF MAGNETIC MOMENT IN PERMALLOY FILMS 67-10 M15-79841
FUNDAMENTALS OF MAGNETISM IN METALS 67-10 M16-78310
DISTRIBUTION OF ATOMIC MAGNETIC MOMENTS IN NI-MO, NI-W DILUTED ALLOYS 67-10 M16-79234
FORMATION OF LOCAL MAGNETIC MOMENTS IN METALS 67-11 M15-80407
NEUTRON-DIFFRACTION STUDY OF ANTIFERROMAGNETISM IN USB2 AND BUI2 67-11 M15-81515
PREPARATION AND MAGNETIC PROPERTIES OF COBALT DISULFIDE 67-11 M15-81684
THE IRREVERSIBLE BEHAVIOUR OF SUPERCONDUCTING NIOBIUM WIRE 67-11 M16-80908
KINETIC REACTIONS OF CO ON DIVIDED NICKEL 67-12 M14-82695
ANTIFERROMAGNETISM OF GAMMA-FEMN ALLOYS. PT. 2. NEUTRON DIFFRACTION AND MOSSBAUER EFFECT STUDIES 67-12 M15-81762
APPROACH TO MAGNETIC SATURATION IN SINGLE CRYSTAL THULIUM AT 4.2 K AND 140 KG 67-12 M15-81850
NEUTRON-DIFFRACTION STUDY OF ANTIFERROMAGNETISM IN USB2 AND UBI2 67-12 M15-82006
MAGNETIC SUSCEPTIBILITIES OF SOME RARE-EARTH-ZINC --RZN2-- INTERMETALLIC COMPOUNDS 67-12 M15-82360
EXPERIMENTAL TEST OF RIGID BAND MODELS FOR CR BY MEANS OF CR-V-MN TERNARY DILUTE ALLOYS 67-12 M16-81760

MAGNETIC MOMENT, ALLOYING EFFECTS
ANTIFERROMAGNETISM IN CHROMIUM ALLOYS. PT. 1. NEUTRON DIFFRACTION 67-02 M15-60760
ANTIFERROMAGNETISM IN DILUTE CR-FE ALLOYS 67-08 M15-76172
MAGNETIC MOMENT, COMPOSITION EFFECTS
EFFECT OF OXYGEN DEFICIENCY ON THE MAGNETIC PROPERTIES OF COPPER FERRITE 67-04 M15-67484
MAGNETIC MOMENT, PRESSURE EFFECTS
EFFECT OF HYDROSTATIC PRESSURE ON THE MAGNETIC MOMENT OF CU-NI ALLOYS 67-04 M15-67480
MAGNETIC MOMENT, TEMPERATURE EFFECTS
MAGNETIC STRUCTURES OF HOLMIUM. PT. 1. THE VIRGIN STATE 67-02 M15-60761
MAGNETIC PARTICLE METHOD
SEE MAGNETIC PARTICLE TESTING
MAGNETIC PARTICLE TESTING
FORGING METALLURGY--STEEL. PT. 3. MODERN INSPECTION AND TESTING METHODS 67-04 M19-66170
EFFECTS OF THE INSPECTING CONDITIONS ON THE RESULTS IN MAGNETIC PARTICLE INSPECTION 67-04 M19-67724
TESTING TUBING FOR A PLASTICS PROCESS 67-04 M19-68153
APPLYING NDT TO WELDS 67-05 M19-68688
RADIOGRAPHIC CONTROL OF WELDMENTS 67-05 M19-69124
A FLUORESCENT FERROMAGNETIC TESTING AGENT FOR THE MAGNETIC PARTICLE METHOD OF CRACK DETECTION 67-06 M19-70052
A BALANCED LOOK AT WELD INSPECTION 67-06 M19-70456
NONDESTRUCTIVE TESTING BY MAGNETIC FLAW DETECTION 67-06 M19-70802
NONDESTRUCTIVE TESTING OF SPACE VEHICLE LIQUID PROPELLANT ROCKET ENGINES 67-06 M19-72094
THE SURFACE TESTING OF STEEL TUBES BY THE FLUORESCENCE-MAGNAFLUX METHOD 67-07 M19-72682
NDT APPLIED TO PIPELINE CONSTRUCTION AND OPERATION IN THE U.S.A. 67-07 M19-73315
ECONOMICS OF NONDESTRUCTIVE TESTING 67-08 M19-75556
MAGNETIC BILLET CLASSIFIER 67-09 M19-76471
QUALITY CONTROL OF CAST STEEL BY NONDESTRUCTIVE TESTING METHODS, ESPECIALLY BY ULTRASOUND 67-09 M19-77198
STRAY FIELDS AND MAGNETIC TESTING OF WORKPIECES 67-09 M19-77587
NDT--THE KEY TO SUBMARINE WELD INTEGRITY 67-09 M19-77912
NON-DESTRUCTIVE TESTING FOR INVESTMENT CASTINGS 67-09 M19-78279
NONDESTRUCTIVE TESTING OF ADHESIVE BONDS IN AIRCRAFT 67-10 M19-79437
RADIOGRAPHY IN SHIPBUILDING. PT. 1 67-12 M19-83116
MAGNETIC PERMEABILITY
ANTIFERROMAGNETIC TO WEAK FERROMAGNETIC TRANSITION AND THE TEMPERATURE DEPENDENCE OF THE TRANSVERSE SUSCEPTIBILITY IN HEMATITE BELOW THE MORIN TRANSITION 67-01 M15-57447
MAGNETIC AFTER-EFFECT OF THE REVERSIBLE SUSCEPTIBILITY OF COBALT 67-01 M15-57582
FIELDS IN CUBICAL TEXTURE IN THE PRESENCE OF A BIAS FIELD 67-01 M15-58671
ON THE INFLUENCE OF DEFECTS ON THE MAGNETIZATION PROCESSES TAKING PLACE ON THE SURFACE OF POLYCRYSTALLINE FE-SI SAMPLES 67-01 M15-58797
REMOVAL OF SUPERCONDUCTING SURFACE-SHEATH BY COPPER-PLATING 67-01 M16-57971
INVESTIGATING MATERIALS OF LOW MAGNETIC PERMEABILITY 67-02 M15-58979
THE MAGNETIC SUSCEPTIBILITIES OF PD-CD, PD-SB AND PT-CU BINARY ALLOYS 67-02 M15-59060
INVESTIGATING MATERIALS OF LOW MAGNETIC PERMEABILITY 67-02 M15-59625
INVESTIGATION OF THE MAGNETIC PROPERTIES AND HARDNESS IN IRON-COBALT ALLOYS 67-02 M15-59919
EFFECTIVE PERMEABILITY OF THIN MAGNETIC FILMS AS A FUNCTION OF AMPLITUDE OF RADIO FREQUENCY FIELD 67-02 M15-59924
VALENCY STATE OF COBALT ATOMS IN COBALT MONOSILICIDE 67-02 M15-60537
THE MAGNETIC SUSCEPTIBILITY OF CHROMIUM SILICIDES 67-02 M15-60579
MAGNETIC SUSCEPTIBILITY OF CUPROUS OXIDE SINGLE CRYSTALS AT 25 C 67-02 M15-60588
MAGNETIC PROPERTIES OF DYAL2 AND NDAL2 67-02 M15-61837
LOW-TEMPERATURE PARAMAGNETIC SUSCEPTIBILITY OF TRANSITION METALS WITH A SMALL NUMBER OF D-ELECTRONS 67-02 M15-61921
ANISOTROPY DISTRIBUTION AND NATURAL FERROMAGNETIC RESONANCE IN SINGLE-DOMAIN PARTICLES OF FE AND FE-CO ALLOY 67-02 M15-62072
DIAMAGNETIC SUSCEPTIBILITY AND LINEAR THERMAL EXPANSION OF GRAPHITIZED CARBONS 67-02 M15-62130
MAGNETIC CHARACTERISTICS OF SOME 1..1 COMPOUNDS OF THE LANTHANIDES WITH GOLD AND ALUMINUM 67-03 M15-65130
MAGNETIC SUSCEPTIBILITIES OF CUBIC UO2 PLUS X AT HIGH TEMPERATURE 67-03 M15-65155
THE MAGNETIC STRUCTURE OF FE2AS 67-03 M15-65637
MAGNETIC PROPERTIES OF ZNMN2S4, ZNMN2SE4 AND ZNMN2TE4 67-03 M15-65648
A MAGNETIC SUSCEPTIBILITY APPARATUS FOR WEAKLY MAGNETIC METALS, AND THE SUSCEPTIBILITY OF PURE COPPER IN THE RANGE 6-300 K 67-03 M15-65737
FACTORS INFLUENCING THE INITIAL PERMEABILITY OF SOME ALLOYS BASED ON 80NI20FE 67-03 M15-65754
MAGNETIC SUSCEPTIBILITY OF GROUP 2, GROUP 4 SEMICONDUCTOR ZNO 67-03 M15-65919
ARSENIDES OF THE TRANSITION METALS. PT. 8. SOME BINARY AND TERNARY GROUP 8 DIARSENIDES AND THEIR MAGNETIC AND ELECTRICAL PROPERTIES 67-03 M15-65945
CONTROL AND AUTOMATION OF THE DWIGHT-LLOYD PROCESS 67-04 M04-68048
THE FERROMAGNETIC AFTER-EFFECT IN IRRADIATED NICKEL, AND ITS APPLICATION TO THE STUDY OF POINT DEFECTS IN FCC METALS 67-04 M13-67318
THE MAGNETIC SUSCEPTIBILITIES AND SN119 ISOMER SHIFTS OF SOME PD-SN ALLOYS 67-04 M15-66179
MAGNETIZING FINELY-DISPERSED PARTICLES OF FE-CO ALLOY 67-04 M15-66480
INCREMENTAL SUSCEPTIBILITY MATRICES AND THEIR MEASUREMENT IN FE-NI CUBIC TEXTURES 67-04 M15-67056
ELECTRIC AND MAGNETIC PROPERTIES OF VO 67-04 M15-67486
ELECTRICAL RESISTIVITY, THERMAL CONDUCTIVITY AND MAGNETIC SUSCEPTIBILITY OF POLYCRYSTALLINE SAMARIUM AT LOW TEMPERATURES 67-04 M15-68152
ELECTRON SPIN RESONANCE OF PHOSPHORUS-DOPED SILICON IN THE METALLIC CONDUCTION REGION 67-04 M16-66788
MN-ZN-FERRITES WITH LOW LOSS PROPERTY AND HIGH INITIAL PERMEABILITY 67-04 M16-66996
EQUIATOMIC TRANSITION METAL ALLOYS OF MANGANESE. PT. 5. ON THE MAGNETIC PROPERTIES OF THE PTMN PHASE 67-04 M16-68157
CONTINUOUS MEASUREMENT OF SINTER QUALITY 67-05 M02-68537
MAGNETIC PROPERTIES OF DILUTE COPPER-MANGANESE ALLOYS 67-05 M15-68847
EFFECT OF DOMAIN STRUCTURE ON THE MAGNETIC PROPERTIES OF CHROMIUM OXIDE 67-05 M15-69024
MAGNETIC SUSCEPTIBILITY CHANGES IN SILVER POWDERS DURING OXIDATION-REDUCTION CYCLING 67-05 M15-69032
SUPER HIGH PERMEABILITY AND UNIAXIAL ANISOTROPY OF 5 MO-PERMALLOY 67-05 M15-69202
MAGNETISM OF THE TITANIUM-OXYGEN SYSTEM 67-05 M15-69300
MAGNETIC BEHAVIOR OF CE IN ITS INTERMETALLIC COMPOUNDS. PT. 6. CE-BE, CE-B AND CE-C SYSTEMS 67-05 M15-69351
TEMPERATURE DEPENDENCE OF THE INITIAL COMPLEX PERMEABILITY OF CO0.6ZN0.4FE2O4 FERRITES OVER A WIDE RANGE OF FREQUENCIES 67-05 M15-69387
THE EFFECT OF DISLOCATIONS ON THE MAGNETIZATION CURVES OF FERROMAGNETIC CRYSTALS 67-05 M15-69453
MAGNETIC SUSCEPTIBILITY MEASUREMENTS OF RUTILE AND THE MAGNELI PHASES OF THE TI-O SYSTEM 67-05 M15-69523
DE HAAS-VAN ALPHEN EFFECT IN ANTIMONY AT VERY LOW TEMPERATURES 67-05 M16-69029
GALVANOMAGNETIC EFFECTS AND MAGNETIC SUSCEPTIBILITY OF TIN-DOPED BISMUTH CRYSTALS 67-05 M16-69752
PROCESS YIELDS CO-FE ALLOYS WITH SUPERIOR HIGH

TEMPERATURE MAGNETIC PROPERTIES
67-06 M15-70012
MAGNETIC RELAXATION IN NICKEL ABOVE THE CURIE TEMPERATURE 67-06 M15-71787
MAGNETIC PROPERTIES AND HARDNESS OF IRON-COBALT ALLOYS 67-07 M15-72574
EFFECTIVE PERMEABILITY OF THIN MAGNETIC FILMS AS A FUNCTION OF THE AMPLITUDE OF A RADIOFREQUENCY FIELD 67-07 M15-72579
THE MAGNETIC SUSCEPTIBILITY OF PURE AND IMPURE COPPER METAL 67-07 M15-73085
LOW-TEMPERATURE THERMOELECTRIC POWER AND MAGNETIC SUSCEPTIBILITY OF RARE EARTH METALS IN GOLD AND SILVER 67-07 M15-73295
TEXTURE-ELECTRICAL-PROPERTY CORRELATIONS IN ORIENTED SILICON STEEL 67-07 M15-73518
STRUCTURES AND MAGNETIC PROPERTIES OF GRAIN-ORIENTED 3.2 PER CENT SILICON-IRON
67-07 M15-73522
EFFECT OF SILICON ON THE LOW-INDUCTION PERMEABILITY OF 4-MOLYBDENUM PERMALLOY 67-07 M15-73532
SOME CONCEPTS CONCERNING THE NEW HIGH-PERMEABILITY 50-50 NICKEL-IRON ALLOYS 67-07 M15-73537
METALLURGY AND MAGNETIC PROPERTIES CONTROL IN PERMALLOY 67-07 M15-73538
MAGNETIC PROPERTIES OF THE IRON-GROUP METAL PHOSPHIDES 67-07 M15-73545
LOW-TEMPERATURE SUSCEPTIBILITIES OF RH AND IR WITH FE IMPURITIES 67-07 M15-73551
CHANGE OF MAGNETIC PROPERTIES OF DILUTE GOLD-CHROMIUM ALLOYS BY SUBSTITUTIONS OF TIN, ALUMINUM, AND COPPER FOR GOLD
67-07 M15-73560
AVERAGE RIPPLE-ANGLE MAGNITUDE, WALL PINNING, AND SUSCEPTIBILITY IN THIN PERMALLOY FILMS
67-07 M15-73569
COMPOUNDS AND OXIDES. PT. 3. THE MAGNETIC SUSCEPTIBILITY OF NEPTUNIUM OXIDE AND CARBIDE BETWEEN 4.2 AND 350 K 67-07 M15-73599
MAGNETIC BEHAVIOR OF THE SYSTEM MN2O3-FE2O3
67-07 M15-73600
MAGNETIC-SUSCEPTIBILITY STUDIES ON THE MAGNELI PHASES OF THE TITANIUM-OXYGEN SYSTEM
67-07 M15-73601
MAGNETIC PROPERTIES OF FEXO AS RELATED TO THE DEFECT STRUCTURE 67-07 M15-73602
FIELD-DEPENDENT MAGNETIC SUSCEPTIBILITY OF MNO
67-07 M15-73603
INVESTIGATION OF THE MAGNETIC PROPERTIES OF NEODYMIUM MONOCHALCOGENIDES AT 4.2-150 K
67-07 M15-73704
A THIRD MAXIMUM IN THE PERMEABILITY/TEMPERATURE CURVE OF MN-ZN FERRITES 67-07 M15-73804
PROPERTIES OF HIGHLY-PERMEABLE NI-FE-V ALLOYS
67-07 M15-73810
SOME PROPOSALS FOR THE STANDARDIZATION OF CORE TRAYS 67-07 M15-73815
ELECTRICAL RESISTIVITY, MAGNETIC SUSCEPTIBILITY, AND THERMAL EXPANSION OF THORIUM MONOCARBIDE
67-07 M15-74239
NUCLEAR MAGNETIC RESONANCE AND SUSCEPTIBILITY MEASUREMENTS IN INTERMETALLIC COMPOUNDS
67-07 M16-73147
THE MAGNETIC SUSCEPTIBILITY OF P-TYPE CDSB
67-07 M16-73463
NMR AND MAGNETIC SUSCEPTIBILITY OF CO MAGNETIC IMPURITIES IN TRANSITION METAL HOSTS
67-07 M16-73528
RELATIONSHIP BETWEEN THE SPIN SUSCEPTIBILITY ENHANCEMENT AND THE SUPERCONDUCTING TRANSITION TEMPERATURE 67-07 M16-73546
MAGNETIC ANOMALY IN THE METALLIC IMPURITY CONDUCTION 67-07 M16-73991
LOW-TEMPERATURE PERMEABILITY MEASUREMENTS ON FERRITES 67-08 M15-74392
NEW FERROMAGNETIC STATE OBSERVED DURING RECRYSTALLIZATION AND INDUCED MAGNETIC ANISOTROPY OF COLD ROLLED FERROMAGNETIC GAMMA-PHASE ALLOY
67-08 M15-74407
FERROMAGNETIC RESONANCE IN SMALL PARTICLES OF NICKEL, COBALT AND IRON 67-08 M15-74636
SOME INVESTIGATIONS ON THE ELECTRIC AND MAGNETIC PROPERTIES OF CR2O3-BEO SYSTEM
67-08 M15-74779
LOCALIZED IMPURITY STATES IN LIQUID METALS--PARAMAGNETIC SUSCEPTIBILITIES OF MANGANESE IN LIQUID METALS 67-08 M15-75053
MAGNETIC STUDIES OF TI3O5 67-08 M15-75819
NUCLEAR MAGNETIC RESONANCE AND MAGSUSCEPTIBILITIES OF V-NB ALLOYS 67-08 M16-74662
MAGNETIC SUSCEPTIBILITY OF DELTA PLUTONIUM ALLOYS
67-09 M15-76315
THE BAND STRUCTURE, SPECIFIC HEAT, MAGNETIC SUSCEPTIBILITY, AND ANOMALOUS THERMAL EXPANSION OF DELTA PLUTONIUM 67-09 M15-76316
THE MAGNETIC SUSCEPTIBILITY OF THE MONOCARBIDES OF URANIUM AND PLUTONIUM 67-09 M15-76318
ANOMALIES DUE TO S-D INTERACTION AT VERY LOW TEMPERATURES IN DILUTE AU-V ALLOYS
67-09 M15-77972
INVESTIGATION OF THE DEPENDENCE OF CERTAIN PROPERTIES OF MAGNESIUM AND MANGANESE FERRITES ON THEIR COMPOSITION 67-10 M15-79457
APPLICATION OF ANTIMAGNETIC CASTINGS IN SPACE RESEARCH 67-10 M15-79690
PARAMAGNETIC STUDY OF FE-SI AND FE-GE ALLOYS
67-10 M15-80022
MAGNETIC SUSCEPTIBILITY AND MOSSBAUER EFFECT MEASUREMENTS IN FEIN2S4 67-10 M16-79362
STUDIES OF PSEUDO-BINARY LAVES-PHASE SYSTEMS CONTAINING LANTHANIDES. PT. 1. CONSTITUTION AND MAGNETIC PROPERTIES OF THE GDAL2-GDFE2, GDAL2-GDCO2 AND ERCO2-ERAL2 SYSTEMS
67-11 M13-80314
ORDER-DISORDER OF NONSTOICHIOMETRIC BINARY ALLOYS AND ISING ANTIFERROMAGNETS IN MAGNETIC FIELDS
67-11 M14-80660
PARAMAGNETIC BEHAVIOR OF NICKEL-RICH NICKEL-CHROMIUM ALLOYS 67-11 M15-80125
PHENOMENOLOGICAL THEORY OF THE RESISTIVITY AND SUSCEPTIBILITY OF DILUTE RH-FE AND IR-FE ALLOYS
67-11 M15-80184
THE MAGNETIC PROPERTIES OF THE MOLYBDENUM-IRON SOLID SOLUTION 67-11 M15-80372
STUDY OF THE MAGNETIC SUSCEPTIBILITY OF MARTENSITIC EPSILON-PRIME AND EPSILON PHASES IN MANGANESE STEELS 67-11 M15-80723
THE INITIAL SUSCEPTIBILITY ABOVE AND THE SPONTANEOUS MAGNETIZATION UNDER THE CURIE TEMPERATURE OF FE, CO AND NI 67-11 M15-80807
A REVIEW OF THE PHYSICAL PROPERTIES OF SOME PRIMARY SOLID SOLUTIONS, AND THEIR INTERPRETATION
67-11 M15-81109
REPORT ON THE DETERMINATION OF THE FERMI SURFACE OF ORDERED BETA PRIME PHASES 67-11 M15-81113
MAGNETIC SUSCEPTIBILITY OF VERY DILUTE CU-FE AND AU-FE ALLOYS IN THE RANGE 6 TO 300 K
67-11 M15-81668
MAGNETOCHEMICAL STUDY OF THE REDUCTION OF GAMMA MNO2 67-12 M14-81813
CHEMICAL AND MAGNETIC ORDER IN PTNI ALLOY
67-12 M15-81771
EFFECTS OF STRONG MAGNETIC FIELD ON THE SOLIDIFICATION OF ALUMINUM ALLOYS
67-12 M15-81901
MAGNETIC SUSCEPTIBILITY OF FACE-CENTERED CUBIC IRON-RHENIUM ALLOYS 67-12 M15-82013
ON THE MAGNETIC BEHAVIOR OF MOLTEN B-T-ALLOYS
67-12 M15-82049
THERMOMAGNETIC STUDIES OF THE MAGNETOCALORIC EFFECT OF COBALT NEAR THE CURIE POINT
67-12 M15-82222
TEMPERATURE DEPENDENCE OF MAGNETIC SUSCEPTIBILITY OF RU, RH, OS, IR AND PT BETWEEN 80 AND 1850 K
67-12 M15-82227
FREQUENCY DEPENDENCE OF MAGNETIC LOSSES IN HO IN THE NEIGHBORHOOD OF THE CURIE TEMPERATURE
67-12 M15-82291
MAGNETIC SUSCEPTIBILITIES OF SOME RARE-EARTH-ZINC --RZN2-- INTERMETALLIC COMPOUNDS
67-12 M15-82360
MAGNETIC BREAKDOWN IN ZINC AND ITS ALLOYS AS SEEN IN THE DE HAAS-VAN ALPHEN EFFECT
67-12 M15-82524
NEW RESULTS CONCERNING SOFT-MAGNETIC FE-NI ALLOYS WITH NI CONTENTS BETWEEN 50 AND 60 PER CENT --EFFECT OF CRYSTAL ORIENTATION AND ORDERING OROCESSES-- 67-12 M15-83145

MAGNETIC PERMEABILITY, ALLOYING EFFECTS
CASTINGS FROM NONMAGNETIC IRON CONTAINING 2 PER CENT NI 67-04 M15-66414
EFFECT OF MANGANESE ON THE STRUCTURE AND PROPERTIES OF NONMAGNETIC STAINLESS STEELS
67-04 M15-67974
ON THE REFINING EFFECT OF SI IN THE VACUUM MELTING OF 50NI-FE ALLOY AND ITS INFLUENCE ON THE MAGNETIC PROPERTIES 67-05 M15-69862
MAGNETIC PROPERTIES OF ZINC-RICH ZINC-MANGANESE

MAGNETIC PERMEABILITY

ALLOYS IN THE LIQUID AND SOLID STATE
67-06 M15-71662
MAGNETIC SUSCEPTIBILITY OF NICKEL-SILICON ALLOYS
67-07 M15-73854
MAGNETIC PROPERTIES OF SINTERED COMPACTS OF IRON POWDERS WITH AND WITHOUT PHOSPHORUS ADDITION
67-09 M15-78247

MAGNETIC PERMEABILITY, COMPOSITION EFFECTS
VARIATIONS IN SOME PROPERTIES OF SINTERED TUNGSTEN CARBIDE-COBALT ALLOYS WITH PARTICLE SIZE AND BINDER COMPOSITION 67-01 M15-58743
EFFECT OF THE ADDITION OF VANADIUM ON THE PROPERTIES OF A NEW HIGH MAGNETIC PERMEABILITY ALLOY NIMALLOY IN THE SYSTEM OF NICKEL AND MANGANESE 67-02 M15-60267
EFFECT OF COMPOSITIONAL VARIATION ON THE PERMEABILITY OF MOLYBDENUM PERMALLOY
67-07 M15-73535

MAGNETIC PERMEABILITY, COOLING EFFECTS
EFFECTS OF COMPOSITION AND COOLING RATE ON THE INITIAL PERMEABILITY OF MUMETAL
67-07 M15-73534

MAGNETIC PERMEABILITY, HEATING EFFECTS
HYSTERESIS LOOP ASYMMETRY INDUCED BY MAGNETIC ANNEALING IN FE-AL ALLOY 67-01 M15-58660
RECOVERY OF MAGNETIC PROPERTIES IN A STRAINED STRIP OF TRANSFORMER STEEL AFTER ANNEALING IN VARIOUS MEDIA 67-04 M15-66495
DEPENDENCE OF THE DECREASE OF MAGNETIC PERMEABILITY IN ELECTROTECHNICAL STEEL WITH TIME ON THE CONDITIONS OF HEAT TREATMENT 67-08 M15-74990
MAGNETIC AFTER-EFFECT IN DEFORMED COBALT SINGLE CRYSTALS 67-12 M15-82010

MAGNETIC PERMEABILITY, IMPURITY EFFECTS
EFFECT OF SULFUR ON THE HIGH-DENSITY MAGNETIC PROPERTIES OF ORIENTED 3 1/4 PER CENT SILICON STEEL 67-07 M15-73520
LOCALIZED IMPURITY STATES IN LIQUID METALS--DILUTE ALLOYS OF NICKEL IN LIQUID BISMUTH
67-07 M15-73936
MAGNETIC POLARIZATION OF TRANSITIONAL IMPURITIES IN ALUMINIUM 67-09 M16-77524

MAGNETIC PERMEABILITY, PRESSURE EFFECTS
OSCILLATIONS OF ELECTRONIC THERMODYNAMIC CHARACTERISTICS OF A METAL FILM AT HIGH PRESSURES
67-06 M16-71912

MAGNETIC PERMEABILITY, RADIATION EFFECTS
THE COMBINED EFFECTS OF TEMPERATURE AND IRRADIATION ON THE MECHANICAL PROPERTIES OF AUSTENITIC STAINLESS STEELS 67-07 M17-73386

MAGNETIC PERMEABILITY, TEMPERATURE EFFECTS
MAGNETIC PROPERTIES OF FE-MODIFIED MN3B4
67-02 M15-59469
A CALCULATION ON THE TEMPERATURE VARIATION OF THE MAGNETIZATION FOR IRON METAL 67-02 M15-59471
THE ANOMALOUS CHANGES OF THE MAGNETIC PROPERTY OF A MUMETAL 67-02 M15-60278
INVESTIGATION OF SOME MAGNETIC PROPERTIES OF NICKEL-CADMIUM FERRITES 67-06 M15-70509
MEASUREMENT OF THE SPECIFIC MAGNETIC SUSCEPTIBILITY OF OS BETWEEN 80 AND 1850 K. BY AN IMPROVED FARADAY METHOD 67-08 M15-75645
FURTHER EVIDENCE OF NAGAOKAS BOUND STATE FOR CONDUCTION ELECTRONS IN DILUTE ALLOYS
67-08 M15-75925
THE HALL EFFECT, MAGNETORESISTIVITY, AND MAGNETIC SUSCEPTIBILITY OF ALPHA-MANGANESE AT LOW TEMPERATURES 67-10 M15-78782
CHANGE IN THE CHARACTER OF THE CHEMICAL BOND ON MELTING COMPOUNDS WITH THE NACL AND CAF2 TYPE OF LATTICE 67-11 M15-80163
MAGNETIC SUSCEPTIBILITY OF AGF2
67-12 M15-82537
EFFECT OF MARTENSITIC TRANSFORMATION ON THE ELECTRICAL AND MAGNETIC PROPERTIES OF NITI
67-12 M15-82748
MAGNETIC ANALYSIS OF DILUTE BINARY ALLOYS OF COPPER, ZINC, AND MAGNESIUM IN ALUMINUM
67-12 M15-82966

MAGNETIC PROPERTIES
SEE ALSO ANTIFERROMAGNETISM
COERCIVE FORCE
CRYOMAGNETIC PROPERTIES
CURIE TEMPERATURE
DIAMAGNETISM
FERROMAGNETISM
MAGNETIC ANISOTROPY
MAGNETIC PERMEABILITY
MAGNETORESISTIVITY
NEEL POINT
PIEZOMAGNETISM
REMANENCE
EVALUATION OF STAINLESS STEEL CASTING ALLOYS FOR CRYOGENIC SERVICE IN THE 80-INCH LIQUID-HYDROGEN BUBBLE CHAMBER 67-01 M11-57622
CONTRIBUTION TO THE STUDY OF THE PRINCIPAL PROPERTIES OF SERMALLOY A1, AN ALNICO ALLOY WITH 38 PER CENT COBALT 67-01 M15-58647
MAGNETIC PROPERTIES OF CE, PR AND ND MONOCHALCOGENIDES AT 4.2 TO 1300 K
67-01 M16-57956
MAGNETIC STRUCTURES OF TBC2 AND HOC2
67-01 M16-58639
THE MAGNETIC CHARACTERISTICS OF IRON CORE IN FREQUENCY MULTIPLIER 67-02 M15-59082
MAGNETOACOUSTIC ATTENUATION IN BISMUTH
67-02 M15-59475
MAGNETOACOUSTIC ATTENUATION OF CIRCULARLY POLARIZED ULTRASOUND IN SN, AL, AND SB
67-02 M15-60767
DYNAMIC BEHAVIOR OF MAGNETIZATION PROCESSES IN BARIUM FERRITE IN HIGH PULSED MAGNETIC FIELDS
67-02 M15-61035
QUANTITATIVE DETERMINATION OF BARIUM FERRITE TEXTURE 67-02 M15-61036
IRRADIATION OF HEUSLER ALLOYS 67-02 M16-61116
CASTING ELECTRICAL STEEL AND RESULTING EFFECT ON ITS MAGNETIC PROPERTIES 67-04 M06-66336
BONDING, LATTICE PARAMETER, DENSITY AND DEFECT STRUCTURE OF TIN CONTAINING AN EXCESS OF N
67-04 M13-66537
METALS AND NONMETALS--MEMBERS OF THE SAME FAMILY
67-04 M16-67548
PRODUCTION OF TRANSFORMER STEEL BY THE OXYGEN-CONVERSION METHOD 67-05 M04-69508
MAGNETIC CRYSTAL ENERGY CONSTANTS K1, K2, K3 OF NICKEL-IRON ALLOYS 67-05 M15-68340
MAGNETIC ULTRASONIC ATTENUATION IN NICKEL AND COBALT 67-05 M15-69716
MAGNETICALLY SOFT POWDERED ALSIFER-TYPE MATERIALS
67-06 M09-71878
EFFECT OF HEAT TREATMENT ON THE MAGNETIC AND ELECTRICAL PROPERTIES OF MAGNESIUM-ALUMINUM SUPERHIGH-FREQUENCY FERRITES 67-06 M15-70772
PULSED MAGNETIC REVERSAL OF CYLINDRICAL POLYCRYSTALLINE THIN FERROMAGNETIC FILMS
67-06 M15-72378
MAGNETIC, SUPERCONDUCTING, AND OTHER PHASE TRANSITIONS WITHIN THE METALLIC STATE
67-06 M16-71202
EFFECT OF PH VARIATION ON THE MAGNETIC PROPERTIES OF ELECTROLESS COBALT-PHOSPHORUS THIN FILMS
67-07 M12-74123
ANTIPHASE BOUNDARIES AND DOMAINS
67-07 M13-73674
MAGNETIC PROPERTIES OF COMPOUNDS AND SOLID SOLUTIONS OF RARE-EARTH METALS
67-07 M15-73580
BOND CHARACTER AS REVEALED BY ELECTRONIC PROPERTIES
67-07 M15-73664
MAGNETIC PROPERTIES 67-07 M15-73687
MAGNETISM IN SOLIDS 67-07 M15-74208
SPECIAL FEATURES IN THE PRODUCTION OF STAINLESS STEEL SPRING WIRE 67-07 M17-74150
TRANSFORMATION OF METASTABLE PHASE FEAL AND CHANGES IN MAGNETIC PROPERTIES DURING ORDERING OF QUENCHED FE-AL ALLOY 67-09 M14-77296
ELECTRICAL AND MAGNETIC PROPERTIES OF SOLID SOLUTIONS OF VANADIUM AND TITANIUM DISILICIDES IN CHROMIUM DISILICIDE 67-09 M15-76916
THE ANOMALOUS CHANGE IN VOLUME OF THE MIXED CRYSTAL SERIES --FE, CR--3C AND ITS SPECIFIC THERMOCHEMICAL AND MAGNETIC BEHAVIOR
67-09 M15-77197
NEW GRADES OF A COLD ROLLED ELECTRICAL STEEL
67-09 M15-77637
EFFECT OF STRIP TENSION DURING HEAT TREATMENT IN A CONTINUOUS FURNACE ON THE MAGNETIC PROPERTIES OF TRANSFORMER STEEL 67-09 M15-77638
DECREASING SPECIFIC LOSSES IN TRANSFORMER STEEL BY PRODUCING LOW STRESSES IN THE CRYSTAL LATTICE
67-09 M15-77766
SOME CHARACTERISTICS OF THE GALVANOMAGNETIC PROPERTIES OF SB-BI ALLOYS 67-09 M15-77782
CRITICAL PARAMETERS OF EVAPORATED NIFE FILMS FOR FAST STORES 67-10 M15-78868
CONTRIBUTION TO THE THEORY OF INTERBAND MAGNETIC BREAKDOWN IN METALS 67-10 M16-79470

TRACE CHARACTERIZATION AND THE PROPERTIES OF MATERIALS 67-11 M01-80131
ELECTRONS, NEUTRONS AND PROTONS IN ENGINEERING 67-11 M01-81101
STUDY OF THE PHYSICO-CHEMICAL PROPERTIES OF MANGANESE ALLOYS IN LIQUID STATE 67-11 M15-80432
NEW GRADES OF COLD ROLLED ELECTROTECHNICAL STEEL 67-11 M15-80925
THERMOELECTRIC AND THERMOMAGNETIC EFFECTS AND APPLICATIONS 67-12 M01-82986
THERMAL DECOMPOSITION OF NICKEL CARBIDE --REACTIVITY OF NICKEL WITH CO IN THE PRESENCE OF FREE CARBON-- 67-12 M14-82696
MAGNETIC FORM FACTOR OF TERBIUM 67-12 M15-81900
THE EFFECT OF SURFACE ON THE PROPERTIES OF HIGHLY DISPERSED FERROMAGNETIC POWDERS 67-12 M15-82322
THE MAGNETIC PROPERTIES OF SPUTTERED NIFE FILMS 67-12 M15-83276

MAGNETIC PROPERTIES, ALLOYING EFFECTS
ON THE YIELD OF SULFUR AND THE INFLUENCE OF SULFUR ON THE MAGNETIC PROPERTIES OF TITANIUM CONTAINING HIGH-COERCIVE FORCE ALNICO MAGNET ALLOYS WITH SULFUR 67-02 M15-60141
STUDY OF THE EFFECT OF TITANIUM ON ALNICO ALLOYS CONTAINING 34 PER CENT COBALT 67-06 M14-70598
INFLUENCE OF A SMALL ADDITION OF URANIUM ON THE MECHANICAL AND MAGNETIC PROPERTIES OF A 50 PER CENT NI-FE-NI ALLOY 67-08 M17-76233
ALUMINUM IN THE PRODUCTION OF COLD ROLLED TRANSFORMER STEEL 67-09 M04-77639
ALUMINIUM IN PRODUCTION OF COLD-ROLLED TRANSFORMER STEEL 67-11 M04-80927

MAGNETIC PROPERTIES, ANISOTROPY
THE COERCIVITY OF PERMANENT MAGNETS 67-02 M15-61030

MAGNETIC PROPERTIES, COMPOSITION EFFECTS
STUDY OF AN 11.3-TON INGOT OF OPENHEARTH TRANSFORMER STEEL 67-12 M15-81864
EFFECTS OF THE CHEMICAL COMPOSITION OF STEEL ON ITS MAGNETIC PROPERTIES 67-12 M15-83304

MAGNETIC PROPERTIES, HEATING EFFECTS
EFFECT OF HEAT TREATMENT ON THE MAGNETIC PROPERTIES OF A COBALT-PLATINUM ALLOY 67-02 M15-59955
EFFECT OF HEAT TREATMENT ON THE MAGNETIC PROPERTIES OF CERTAIN ALLOYS OF THE SYSTEMS FE-MN AND FE-NI 67-02 M15-61928
EFFECT OF CERTAIN PRODUCTION FACTORS ON THE PROPERTIES OF COIL TRANSFORMER STEEL 67-10 M10-78440
HOW ROASTING CONDITIONS AND SUBSTANCE COMPOSITION AFFECT THE MAGNETIC PROPERTIES OF ROAST BAKAL FERROCARBONATE ORE 67-11 M02-81307
EFFECT OF ELONGATION OF STRIPS DURING HEAT TREATMENT IN A THROUGH FURNACE ON THE MAGNETIC PROPERTIES OF TRANSFORMER STEEL 67-11 M15-80926
EFFECT OF CERTAIN TECHNOLOGICAL FACTORS ON PROPERTIES OF TRANSFORMER STEEL IN COILS 67-12 M10-83438

MAGNETIC PROPERTIES, PRESSURE EFFECTS
PRESSURE EFFECT ON MAGNETIC TRANSITIONS IN CRS1.17 67-04 M15-67481

MAGNETIC PROPERTIES, RADIATION EFFECTS
EFFECTS OF NEUTRON-RADIATION ON MAGNETIC MATERIALS 67-04 M15-67319
RADIATION DAMAGE IN SOLIDS 67-04 M16-67301
FERROMAGNETIC RESONANCE OF HE3-IRRADIATED THIN METAL FILMS 67-12 M15-83266

MAGNETIC PROPERTIES, TEMPERATURE EFFECTS
MAGNETIC STRUCTURES OF HOLMIUM. PT. 1. THE VIRGIN STATE 67-02 M15-60761
TEMPERATURE DEPENDENCE OF THE SATURATION MAGNETIZATION OF THE FERRO-MAGNETIC OXIDE EUO 67-02 M15-61683
COBALT-PLATINUM ALLOY MAGNETS--EFFECT OF HIGH TEMPERATURES ON MAGNETIC PROPERTIES 67-06 M15-72266
EFFECT OF THERMOMAGNETIC TREATMENT ON THE PHYSICAL PROPERTIES OF 50N PERMALLOY 67-09 M15-77768
CHANGES IN MAGNETIC PROPERTIES OF ELECTRICAL STEELS IN RELATION TO TEMPERATURE 67-09 M15-77790

MAGNETIC RELAXATION
SEE MAGNETIC INDUCTION

MAGNETIC RESONANCE
SEE ALSO ELECTRON PARAMAGNETIC RESONANCE
NUCLEAR MAGNETIC RESONANCE
PARAMAGNETIC RESONANCE
GEOMETRICAL RESONANCE EFFECT IN SUPERCONDUCTING SN 67-01 M16-58637
ANALYSIS BY ATOMIC ABSORPTION IN METALLURGY 67-03 M16-65453
EFFECT OF DOPING ON THE ELECTRON SPIN RESONANCE IN PHOSPHORUS-DOPED SILICON 67-04 M16-66789
INFLUENCE OF THE ANOMALOUS SKIN EFFECT ON THE FERROMAGNETIC-RESONANCE LINEWIDTH IN IRON 67-06 M15-71796
RELAXATION PROCESSES FOR FERROMAGNETIC RESONANCE IN THIN FILMS 67-07 M15-73577
FERROMAGNETIC RESONANCE IN COBALT SINGLE CRYSTALS 67-07 M15-73702
FERROMAGNETIC RESONANCE IN EVAPORATED THIN FILM OF MNSB 67-07 M15-73987
LONGITUDINAL MAGNETOACOUSTIC EFFECT IN ALUMINUM 67-07 M16-73941
FERROMAGNETIC RESONANCE IN SMALL PARTICLES OF NICKEL, COBALT AND IRON 67-08 M15-74636
THE THEORY OF FERROMAGNETIC RESONANCE IN METALS 67-09 M15-77212
HIGH-TEMPERATURE RESONANCE LOSSES IN SILICON-DOPED YTTRIUM-IRON GARNET --YIG-- 67-10 M15-79408
THE ELECTRON SPIN RESONANCE OF VO2 PLUS IONS
B IN TWO TYPES OF ALUMINUM ALUMS 67-11 M16-80329
TEMPERATURE DEPENDENCE OF FERROMAGNETIC RESONANCE IN POLYCRYSTALLINE NICKEL 67-12 M15-82228

MAGNETIC RESONANCE, TEMPERATURE EFFECTS
FERROMAGNETIC RESONANCE IN NICKEL AT LOW TEMPERATURES 67-02 M15-60759
TEMPERATURE DEPENDENCE OF THE FERROMAGNETIC RESONANCE LINEWIDTH IN THIN NI-FE FILMS 67-12 M15-82366

MAGNETIC ROASTING
THE DYNAMICS OF FLUIDIZATION OF IRON AND ITS ORES 67-03 M02-65803
BENEFICIATING LEAN CHROMITE ORES BY THE MAGNETIC ROASTING METHOD 67-04 M02-66076
STUDY OF POSSIBLE MAXIMUM EXTRACTION OF IRON AND INCREASED REMOVAL OF LEAD IN MAGNETIZING ROASTING OF KREMIKOVO IRON ORE 67-04 M03-67446

MAGNETIC SCATTERING
SEE DISPERSION /WAVE/
ELECTROMAGNETIC WAVES

MAGNETIC SEPARATORS
MAGNETIC SEPARATION OF NICKEL FROM NICKEL CONTAINING IRON ORE, TREATED BY SULFIDIZING AND REDUCING ROASTING 67-02 M03-58937
UPGRADING LORRAINE MINERALS. ENRICHMENT BY PHYSICAL MEANS 67-04 M02-67398
PROCESSING OF HIGH-IRON ARKANSAS BAUXITE ORES 67-05 M02-69559
EFFECT OF MAGNETIC FLOCCULATION ON MAGNETIC BENEFICIATION OF ORES 67-06 M02-70208
RATIONAL ANALYSIS OF M, FE, FEO, FE3O4 AND FE2O3 IN AN IRON SCALE 67-06 M02-70786
BENEFICIATION OF ASWAN IRON ORES 67-10 M02-79054
A STUDY OF THE SEMIREDUCTION OF WABANA IRON ORE 67-10 M02-79563
PURIFICATION OF RAW MATERIALS 67-10 M02-79989
SEPARATION OF FERROMAGNETIC IMPURITIES 67-10 M19-78770
MAGNETIC BENEFICIATION OF PYROCHLORE-ZIRCONIUM FLOTATION CONCENTRATES 67-11 M02-81229
MAGNETIC HYDROSTATIC SEPARATION OF LISAKOVSK ORES 67-11 M02-81457
UPGRADING CRUDE TIN-TUNGSTEN CONCENTRATES 67-12 M02-81894

MAGNETIC SUSCEPTIBILITY
SEE MAGNETIC PERMEABILITY

MAGNETIC TAPE
ANHYSTERETIC MAGNETIZATION OF NI-FE TAPE CORES 67-07 M15-73539
MAGNETIC RECORDING MATERIALS 67-07 M20-73540

MAGNETIC TAPE, COATING
EVALUATION AND CONTROL OF THE MAGNETIC PROPERTIES OF CONTINUOUSLY PLATED ELECTROLESS NICKEL-COBALT-PHOSPHORUS MAGNETIC TAPE 67-07 M12-74125

MAGNETIC TESTING
SEE ALSO MAGNETIC PARTICLE TESTING
APPARATUS FOR CONTINUOUS MAGNETIC RECORDING INSPECTION FOR SMALL-SIZE ELECTRIC RESISTANCE WELDED PIPE 67-01 M19-57908
CONTINUOUS NONDESTRUCTIVE MAGNETIC TESTING OF STEEL

STRIP 67-01 M19-57935
THE EFFECTS OF APPLIED MAGNETIC FIELDS ON WELDING ARCS 67-02 M11-61584
SOME MAGNETIC PROPERTIES OF DILUTED CU-CO ALLOYS 67-02 M15-61037
THE PROBLEM OF FERRITE DETERMINATION IN AUSTENITIC WELDS 67-02 M19-59968
THE PRESENT STATUS OF METHODS OF NONDESTRUCTIVE TESTING OF WELDED JOINTS 67-02 M19-61265
THE MAGNETOSTRICTION OF NICKEL 67-03 M15-65189
THE SUITABILITY OF THE R9500-1E MAGNETIC INDUCTION TESTING DEVICE FOR THE DETERMINATION OF SURFACE DECARBURIZATION IN STEEL RODS 67-03 M19-65571
AN INSTRUMENT FOR MEASURING THE SURFACE HARDNESS OF STEEL BY MEANS OF GALVANOMAGNETIC PICKUPS 67-04 M17-67667
A NEW METHOD FOR THE DETERMINATION OF THE FATIGUE STRENGTH OF CARBON STEELS BASED ON MAGNETIC VISCOSITY 67-04 M17-68147
MICROLOCAL MAGNETOGRAPHIC INSPECTION OF POLISHED SURFACES OF STEEL PIECES 67-04 M19-67087
THE PRESENT SITUATION IN THE NON-DESTRUCTIVE TESTING OF WELDS 67-05 M19-68265
THE APPLICATION OF NONDESTRUCTIVE COATING THICKNESS-MEASURING METHODS 67-07 M12-73821
ON THE CORRELATION BETWEEN COERCIVITY AND THE MECHANICAL PROPERTIES OF 40KHNMA --AISI 4340 TYPE-- STEEL 67-07 M19-72672
MEASURING STRESS ON MAGNETIC-HARD STEELS BY THE MAGNETO-ELASTIC METHOD 67-08 M17-75349
POSSIBILITIES FOR THE USE OF NONDESTRUCTIVE TESTING FOR THE DETECTION OF DEFECTS IN THE PRODUCTION OF STEEL TUBES 67-09 M19-76696
HIGHLY LOCALIZED MAGNETOGRAPHIC TESTING OF THE GROUND SURFACES OF STEEL COMPONENTS 67-09 M19-78067
ELECTRON MIRROR OBSERVATION OF SUPER-CONDUCTORS IN THE INTERMEDIATE STATE 67-10 M16-78761
POSSIBLE APPLICATIONS OF NONDESTRUCTIVE TESTING IN THE PRODUCTION OF STEEL TUBES. PT. 2. DEFECT DETECTION 67-10 M19-79480
NONDESTRUCTIVE TESTING METHODS FOR ASSESSING THE BEHAVIOR OF MATERIALS AT LONG TIME STRESS 67-10 M19-79481

MAGNETISM
SEE ALSO ELECTROMAGNETISM
FERROMAGNETISM
NEEL POINT
ORIGIN OF THE PERIODIC COMPONENT OF ANISOTROPY DISPERSION IN NI-FE THIN FILMS 67-05 M15-69289
MAGNETISM OF THE TITANIUM-OXYGEN SYSTEM 67-05 M15-69300
MAGNETISM 67-05 M16-68993
THE DEVELOPMENT OF SPECIAL NONMAGNETIC STEELS 67-05 M20-69320
CRYSTAL CHEMISTRY AND MAGNETISM OF OXIDE MATERIALS. PT. 1. PRINCIPLES AND APPLICATION OF CRYSTAL FIELD THEORY 67-06 M16-70578
MAGNETIC PROPERTIES OF RARE-EARTH COMPOUNDS 67-07 M15-73587

MAGNETITE, BENEFICIATION
STUDY OF REDUCTION OF IRON OXIDE USING THE MAGNETIC METHOD 67-02 M02-62226
CONTROL AND AUTOMATION OF THE DWIGHT-LLOYD PROCESS 67-04 M04-68048
HOW THE POROSITY OF FERRUGINOUS MINERALS AFFECTS THEIR FLOTABILITY 67-07 M02-73484
SULFUR REMOVAL IN SINTERING MAGNETITE IRON ORES AND CONCENTRATES WITH MAGNESIAL GANGUE. PT. 2 67-08 M02-74575
INFLUENCE OF BAKAL SIDERITES ON SINTERING PROCESS INDICES AND SINTER QUALITY 67-08 M02-75709
QUALITY FEATURES AND SMELTING PROPERTIES OF PELLETS 67-09 M02-78048
SELECTING OPTIMUM MAGNETITE FLOTATION PROCEDURES 67-11 M02-81436
PELLETIZING FINE CONCENTRATES AND PULVERIZED MATERIALS 67-11 M02-81602
PRODUCING A HIGH STRENGTH SINTER WITH 1.2-1.4 BASICITY 67-12 M02-81857

MAGNETITE, COATINGS
STUDIES IN CORROSION OF MAGNETITE-COATED MILD STEEL IN WATER 67-10 M18-78611

MAGNETITE, IRONMAKING
CHARACTERISTIC CHANGES IN CHARGE MATERIALS IN A BLAST FURNACE WHEN OPERATING ON STEAM BLAST AND NATURAL GAS 67-08 M04-75864

MAGNETITE, MAGNETIC PROPERTIES
EFFECT OF PARTICLE INTERACTION ON THE ANHYSTERETIC MAGNETIZATION PROCESS IN MAGNETITE POWDER 67-06 M15-75287
THE COMPOSITION AND PROPERTIES OF MAGNETITES OBTAINED FROM KERCH ORES 67-09 M15-76960

MAGNETITE, PELLETING
EXPERIMENTAL PRODUCTION OF PREREDUCED PELLETS FROM NATURAL AND SYNTHETIC MAGNETITES 67-01 M02-57507
GRANULATION OF FINE-GRAINED MATERIALS BY VIBRATION 67-06 M02-72102

MAGNETITE, PHYSICAL PROPERTIES
CHANGE IN VISCOSITY THROUGHOUT THE DEPTH OF A FLUID BED OF IRON-ORE CONCENTRATES 67-08 M03-75863

MAGNETITE, REACTIONS /CHEMICAL/
REDUCTION OF A BURDEN OF IRON OXIDES BY A GAS 67-02 M04-61993
ON THE DESTRUCTION OF MAGNETITE IN THE CONVERTER 67-09 M04-77110

MAGNETITE, REDUCTION /CHEMICAL/
PRODUCTION OF METALLIZED PELLETS USING CRUDE NATURAL GAS AS THE REDUCING AGENT 67-04 M02-66201
RELATIONS BETWEEN PORE STRUCTURE AND DENSIFICATION MECHANISM IN THE COMPACTING OF IRON POWDERS. PT. 2. THEORETICAL CONSIDERATIONS ABOUT THE CHANGE OF PORE SIZE DISTRIBUTION IN COMPACTING 67-05 M09-68946
REDUCTION KINETICS OF IRON OXIDE PELLETS WITH HYDROGEN AT LOWER TEMPERATURES 67-09 M04-77985

MAGNETITE, REFINING
A STUDY OF THE REACTION TEMPERATURES OBTAINED DURING THE ISOTHERMAL REDUCTION OF IRON ORES 67-04 M03-66173
CHARACTERISTICS OF THE MINERALOGICAL COMPOSITION AND STRUCTURE OF FLUXED SINTER WITH A HIGH IRON CONTENT 67-05 M02-68316
SPECIAL FEATURES OF THE MINERALOGICAL COMPOSITION AND STRUCTURE OF FLUXED SINTER OF HIGH IRON CONTENT 67-07 M02-72644

MAGNETITE, SINTERING
SINTERING A BATCH COMPOSED OF 100 PER CENT FINE-COMMINUTED KREMIKOVO MAGNETITE CONCENTRATE 67-05 M02-69228
INFLUENCE OF SIDERITE ON SINTERING PROCESS AND QUALITY OF SINTER 67-06 M02-71240

MAGNETITE, THIN FILMS
THE RELATIONSHIP BETWEEN CORROSION, STRESS AND THE FE3O4 LAYERS 67-05 M18-69333

MAGNETIZATION
SEE ALSO SATURATION /MAGNETIC/
EFFECT OF MAGNETIZATION ON THE L2O ORDERING REACTION IN IRON-ALUMINUM ALLOYS 67-01 M14-58735
COMPOSITION AND ATOMIC ORDER DEPENDENCE OF THE MAGNETIZATION OF NI-MN ALLOYS 67-01 M15-57342
MAGNETIZATION CURVES AND STATIC HYSTERESIS LOOPS OF THIN PERMALLOY FILMS 67-01 M15-57353
INTERACTIONS BETWEEN DOMAIN WALLS IN COUPLED FILMS 67-01 M15-57567
THE EFFECT OF UNIAXIAL ELASTIC STRESSES ON THE REMAGNETIZATION OF THIN PERMALLOY LAYERS 67-01 M15-57571
ON PARTICULARITIES OF MAGNETIC PROPERTIES OF THIN FILMS WITH EXCHANGE ANISOTROPY 67-01 M15-57577
THE REMAGNETIZATION OF THIN FERROMAGNETIC LAYERS ALONG THE AXIS OF LIGHT MAGNETIZATION 67-01 M15-57583
MAGNETIC PROPERTIES OF ORDERED PT-CO 67-01 M15-58658
MAGNETIC PROPERTIES OF MNAL SYSTEM ALLOYS 67-01 M15-58670
THE MAGNETIZATION PROCESS IN NICKEL SINGLE CRYSTALS. PT. 1 67-01 M15-58779
ON THE INFLUENCE OF DEFECTS ON THE MAGNETIZATION PROCESSES TAKING PLACE ON THE SURFACE OF POLYCRYSTALLINE FE-SI SAMPLES 67-01 M15-58797
REMOVAL OF SUPERCONDUCTING SURFACE-SHEATH BY COPPER-PLATING 67-01 M16-57971
MAGNETIC STRUCTURE OF THE ZETA PHASE OF PD3MN2 ALLOY 67-02 M15-59066
RELATION BETWEEN THE MAGNETIZATION, THE INDUCED MAGNETIC ANISOTROPY AND THE RECRYSTALLIZATION

PROCESS OF A COLD ROLLED FERROMAGNETIC GAMMA-PHASE ALLOY IN THE CO-FE-CR-NI SYSTEM --ANISOTROPY INDUCED BY COLD WORKING IN A FERROMAGNETIC GAMMA-PHASE ALLOY IN THE CO-FE-CR-NI SYSTEM. PT. 2.-- 67-02 M15-59738
IMPROVING THE MAGNETIC PROPERTIES OF BARIUM FERRITE BY THE ADDITION OF BI2O3 67-02 M15-59742
INVESTIGATION OF THE MAGNETIC PROPERTIES AND HARDNESS IN IRON-COBALT ALLOYS 67-02 M15-59919
EFFECTIVE PERMEABILITY OF THIN MAGNETIC FILMS AS A FUNCTION OF AMPLITUDE OF RADIO FREQUENCY FIELD 67-02 M15-59924
EXPERIMENTAL EVIDENCE FOR A SURFACE MECHANISM FOR HYSTERESIS IN LOW-K TYPE-2 SUPERCONDUCTORS 67-02 M15-61569
MEASURING THE LENGTH OF REMAGNETIZATION PULSES 67-02 M15-61681
MAGNETIC PROPERTIES OF EU3O4 67-02 M15-61682
MAGNETIC ANALYSIS BY ELECTRON REFLECTION 67-02 M15-61899
SATURATION MAGNETIZATION IN THE ALLOY CO-PT 67-02 M15-61937
MAGNETIC PROPERTIES OF COBALT AND BARIUM FERRITES 67-02 M18-62089
SPONTANEOUS MAGNETIZATION OF EUO AND GDN 67-03 M15-65145
MAGNETIC PROPERTIES OF THE INTERMETALLIC COMPOUNDS OF COBALT WITH THE RARE EARTH METALS AND YTTRIUM 67-04 M15-66191
MAGNETIZING FINELY-DISPERSED PARTICLES OF FE-CO ALLOY 67-04 M15-66480
MAGNETIC ANISOTROPY IN COBALT FERROMAGNETIC THIN FILMS 67-04 M15-66815
STATIC AND IMPULSE MAGNETIZATION AND MAGNETIC REVERSAL OF THIN FILMS 67-04 M15-67374
MAGNETIZATION OF THIN NICKEL FILMS 67-04 M15-67390
ON THE BEHAVIOR OF METALS UNDER INTENSE MAGNETIC FIELD 67-04 M15-67545
STUDY OF THE LAW OF APPROXIMATION TO SATURATION OF FE AND FE-SI ALLOYS 67-04 M15-67912
LOCKING EFFECT ON MAGNETIZATION REVERSAL IN MAGNETIC THIN FILMS 67-04 M15-68170
MAGNETIZATION REVERSALS DRIVEN BY SINUSOIDAL FIELDS IN MAGNETIC THIN FILMS 67-04 M15-68171
EXPERIMENTAL TESTS OF THE CRITICAL-STATE MODEL FOR HYSTERETIC SUPERCONDUCTORS 67-04 M16-67179
MAGNETIC PROPERTIES OF SUPERCONDUCTING MO-RE ALLOYS 67-04 M16-68140
NEUTRON-DIFFRACTION STUDY OF DILUTE CHROMIUM ALLOYS WITH IRON 67-04 M16-68142
THE DEPENDENCE OF ELASTIC AND MAGNETIC PROPERTIES OF NICKEL-COPPER ALLOYS ON ANNEALING TEMPERATURE 67-04 M17-66920
INVESTIGATION OF THE STRUCTURAL AND MAGNETIC CHEMISTRY OF COMPLEX CARBIDES 67-05 M15-68614
THE EFFECT OF DISLOCATIONS ON THE MAGNETIZATION CURVES OF FERROMAGNETIC CRYSTALS 67-05 M15-69453
NUCLEATION IN PULSED MAGNETIC REVERSAL OF CYLINDRICAL POLYCRYSTALLINE FERROMAGNETIC FILMS 67-05 M15-69642
DEFORMATION AND TEMPERATURE INFLUENCES ON MAGNETIC PROPERTIES OF NICKEL SINGLE CRYSTALS. PT. 1. DOMAIN WALL DISPLACEMENTS IN 110 AND 111 NICKEL SINGLE CRYSTALS 67-05 M15-69773
STUDY OF THE DOMAIN STRUCTURE OF NICKEL SINGLE CRYSTALS. PT. 2. MEASUREMENTS AND OBSERVATIONS ON PRISMATIC CRYSTALS WITH A --110-- AXIS 67-05 M15-69779
ON THE MAGNETIC PROPERTIES OF INVAR ALLOYS 67-06 M15-70900
DEFORMATION AND TEMPERATURE DEPENDENCE OF THE MAGNETIZATION PROCESS IN NICKEL SINGLE CRYSTALS. PT. 2. BLOCH WALL DISPLACEMENTS AND ROTATIONS OF THE SPONTANEOUS MAGNETIZATION IN --001-- NICKEL SINGLE CRYSTALS 67-06 M15-70934
INTERACTION BETWEEN DISLOCATIONS AND BLOCK WALLS WITH FIXED MAGNETIZATION 67-06 M15-70989
EASY MAGNETIZATION AXIS OF PERMALLOY AS REVEALED BY ELECTRON DIFFRACTION 67-06 M15-71047
THE EFFECT OF PRESSURE ON THE CURIE TEMPERATURE AND RESISTIVITY OF SOME RARE-EARTH METALS AND HEUSLER ALLOYS 67-06 M15-71282
THE EFFECT OF SUBLATTICE ORDER IN BINARY ALLOYS WITH ONE MAGNETIC COMPONENT. PT. 3 67-06 M15-71286
MAGNETIZATION REVERSAL PROCESS IN BARIUM FERRITE POWDERS 67-06 M15-71765
ON THE PROCESS OF REVERSAL OF MAGNETIZATION IN BARIUM FERRITE POWDERS 67-06 M15-71914
FERROMAGNETISM IN THE INTERMETALLIC PHASE NI3AL 67-06 M15-71993
ELECTRICAL RESISTANCE AND MAGNETIZATION OF TYPE 2 SUPERCONDUCTORS 67-06 M16-71991
MAGNETIC PROPERTIES OF FE65 --NI1-XMNX--35 TERNARY ALLOYS 67-07 M15-72407
MAGNETIC PROPERTIES AND HARDNESS OF IRON-COBALT ALLOYS 67-07 M15-72574
EFFECTIVE PERMEABILITY OF THIN MAGNETIC FILMS AS A FUNCTION OF THE AMPLITUDE OF A RADIOFREQUENCY FIELD 67-07 M15-72579
THE MAGNETIZATION PROCESS IN NICKEL SINGLE CRYSTALS. PT. 2 67-07 M15-72888
THE THEORY OF MAGNETIC HARDNESS OF PLATINUM COBALT 67-07 M15-72956
SURFACE OF MAGNETIZATION, FIELD, AND TEMPERATURE FOR NICKEL NEAR ITS CURIE TEMPERATURE 67-07 M15-73501
MAGNETIC CRITICAL-POINT BEHAVIOR OF CRO2 67-07 M15-73502
A FAMILY OF NEW COBALT-BASE PERMANENT MAGNET MATERIALS 67-07 M15-73506
MAGNETIC PROPERTIES OF SPLAT-COOLED FE-CO-V ALLOYS 67-07 M15-73507
ORIGIN OF CONSTRICTED MAGNETIZATION LOOPS IN HARD-ROLLED NICKEL AT LOW TEMPERATURES 67-07 M15-73510
ANHYSTERETIC MAGNETIZATION OF NI-FE TAPE CORES 67-07 M15-73539
EFFECT OF PHOSPHORUS ON THE MAGNETIZATION OF NICKEL 67-07 M15-73547
MAGNETIZATION RIPPLE IN MULTILAYER FILMS 67-07 M15-73579
PIEZOMAGNETIC EFFECT IN ALPHA-FE2O3 67-07 M15-73703
NEUTRON DIFFRACTION STUDY OF FE7SE8 67-07 M15-73989
MAGNETIC PROPERTIES ON SIGMA-PHASE OF FE-V ALLOYS 67-07 M15-73993
ENERGY DEPENDENCE OF MAGNETIC CHANGES INDUCED BY ELECTRON IRRADIATION 67-07 M16-73566
MAGNETORESISTANCE EFFECT AND ELECTRIC RESISTANCE OF SINGLE CRYSTALS OF COBALT 67-08 M15-74406
CHANGE IN FORM OF DOMAIN STRUCTURE IN SINGLE CRYSTALS OF HIGH-COERCIVITY ALNICO ALLOY DURING MAGNETIC REVERSAL 67-08 M15-74635
EFFECT OF STRUCTURAL STATE ON THE MAGNETIC PROPERTIES OF A CO-PT ALLOY 67-08 M15-74648
CALCULATION OF THE MAGNETIC PROPERTIES OF SUPERCONDUCTING VANADIUM 67-08 M15-75822
MAGNETIC PROPERTIES OF ZRZN2--ITINERANT ELECTRON FERROMAGNET 67-08 M15-76171
THE MAGNETOCRYSTALLINE ANISOTROPY OF IRON SELENIDE FE7SE8 67-08 M15-76173
MEISSNER EFFECT FOR SUPERCONDUCTORS WITH MAGNETIC IMPURITIES 67-08 M16-74400
SUPERHEATING IN PURE SUPERCONDUCTING NIOBIUM 67-08 M16-74472
MAGNETIC PROPERTIES OF ELECTROLESS COBALT BASED ALLOYS 67-09 M15-76998
EXPERIMENTAL STUDY OF THE IRREVERSIBLE MAGNETIZATION CAUSED BY ELASTIC STRAINS 67-09 M15-77209
MEASUREMENTS OF MAGNETIZATION IN SUPERCONDUCTIVE MOLYBDENUM 67-09 M15-77687
MAGNETIC STRUCTURES OF HOLMIUM. PT. 2. THE MAGNETIZATION PROCESS 67-09 M15-77688
IRREVERSIBLE MAGNETIZATION IN SUPERCONDUCTORS 67-09 M16-77014
DEVELOPMENT AND EVALUATION OF MAGNETIC AND ELECTRICAL MATERIALS CAPABLE OF OPERATING IN THE 800 TO 1600 F. TEMPERATURE RANGE 67-10 M15-79200
SUBLATTICE MAGNETIZATION IN FEF3 NEAR THE NEEL POINT 67-10 M15-79364
INVESTIGATION OF MAGNETIZATION CURVES OF UNIAXIAL FILMS 67-10 M15-79458
FINE MAGNETIC DOMAIN STRUCTURES OF IRON, NICKEL AND COBALT FILMS 67-10 M15-79840
A NOTE ON THE CONSISTENCY OF VALUES OF THE SPONTANEOUS OR SATURATION MAGNETIZATION OF POLYCRYSTALLINE IRON AND NICKEL AT 298 K 67-11 M15-80609
HALL EFFECT IN NI-CU ALLOYS AT LOW TEMPERATURES 67-11 M15-80725

MAGNETIZATION
YOUNGS MODULUS AND MAGNETIC SATURATION OF ORDERED NI3FE-NI3MN ALLOYS AT HIGH TEMPERATURES 67-11 M15-81171
MAGNETIC AND MAGNETOSTRICTION PROPERTIES OF AN ERBIUM SINGLE CRYSTAL IN THE PARAMAGNETIC REGION 67-11 M15-81370
MAGNETIC STUDY OF MARTENSITIC TRANSFORMATION OF STAINLESS STEEL 67-11 M15-81472
ELECTRON MICROSCOPIC STUDIES ON ORIGINS OF MAGNETIZATION RIPPLES IN FERROMAGNETIC THIN FILMS 67-12 M15-81761
MAGNETIC PROPERTIES OF RIGID SUPERCONDUCTORS 67-12 M15-82328
EFFECT OF PRECIPITATION ON THE SUPERCONDUCTING PROPERTIES OF AN AL-15 AT . PER CENT ZN ALLOY 67-12 M16-82867
MAGNETIZATION, ALLOYING EFFECTS
EFFECTS OF NICKEL ON THE FORMATION OF SIGMA PHASE AND SOME CHANGES OF PROPERTIES IN 25 PER CENT CHROMIUM STEELS 67-02 M14-59978
SUSCEPTIBILITY OF THE PARAPROCESS OF ELINVAR ALLOYS 67-04 M15-66481
EFFECT OF PHOSPHORUS ON THE MAGNETIZATION OF NICKEL 67-07 M15-73547
RESEARCH INTO THE EFFECTS OF ADDING SMALL AMOUNTS OF TANTALUM AND MOLYBDENUM ON THE MAGNETIC AND ELECTRICAL PROPERTIES OF AN ALLOY WITH A COMPOSITION CLOSE TO NI3FE 67-09 M15-76561
UNALLOYED AND LOW-ALLOY CAST STEELS WITH INCREASED MAGNETIZATION PROPERTIES 67-11 M15-81543
MAGNETIZATION, HEATING EFFECTS
EFFECTS OF MECHANICAL AND THERMAL TREATMENT ON THE STRUCTURE AND MAGNETIC TRANSITIONS IN FERH 67-07 M15-73549
MAGNETIZATION, MAGNETIC PROPERTIES
EFFECT OF PARTICLE INTERACTION ON THE ANHYSTERETIC MAGNETIZATION PROCESS IN MAGNETITE POWDER 67-08 M15-75287
MAGNETIZATION, SHOCK WAVES
SHOCK-INDUCED SECOND-ORDER PHASE CHANGE IN INVAR 67-08 M15-76254
MAGNETIZATION, STRESS EFFECTS
MAGNETIZATION REVERSAL --SWITCHING-- LOSSES IN TRANSFORMER SHEET STEEL 67-07 M15-73813
EFFECT OF MEAN STRESS AND HARDNESS ON MAGNETIZATION INDUCED FROM CYCLIC DEFORMATION 67-09 M15-78046
MAGNETIZATION, TEMPERATURE EFFECTS
THE MAGNETIC PROPERTIES OF SIGMA PHASE ALLOYS 67-01 M15-58669
A CALCULATION ON THE TEMPERATURE VARIATION OF THE MAGNETIZATION FOR IRON METAL 67-02 M15-59471
MAGNETIC AND PARAMAGNETIC RESONANCE PROPERTIES OF EUAL4 67-05 M15-68282
DEVIATIONS FROM THE BLOCK RULE IN IRON-COBALT ALLOYS 67-11 M15-80744
MAGNETO OPTICS
LANDAU LEVELS AND MAGNETO-ABSORPTION IN INSB 67-03 M16-65033
OSCILLATORY MAGNETO-ABSORPTION OF THE DIRECT TRANSITION IN THE LAYER COMPOUND GALLIUM SELENIDE AT 1.5 K 67-04 M16-66750
HIGH FIELD MAGNETO-OPTICAL STUDIES OF CD3AS2 67-04 M16-66751
OSCILLATORY MAGNETO-ABSORPTION IN TELLURIUM 67-04 M16-66752
THE EFFECTS OF BAND-POPULATION ON INTER-BAND MAGNETO-OPTICAL PHENOMENA 67-04 M16-66753
MAGNETO-OPTICAL STUDY OF HYDROGENIC DONOR IMPURITY STATES IN INSB 67-04 M16-66758
INTERBAND MAGNETOABSORPTION IN INAS AND INSB 67-06 M16-69920
INTERBAND MAGNETO-OPTICAL STUDIES OF SEMICONDUCTORS AND SEMIMETALS 67-07 M15-73302
EFFECT OF MECHANICAL STRESS ON MAGNETIC REVERSAL PROCESSES IN FERROMAGNETIC FILMS 67-08 M15-75255
OPTICAL AND MAGNETO-OPTICAL PROPERTIES OF SOME SEMICONDUCTORS 67-08 M16-74437
OPTICAL PROPERTIES OF METALS 67-10 M15-79101
MAGNETOCHEMISTRY
ON THE VANADIUM-OXYGEN SYSTEM.. CONFIRMATION OF THE VO2.33 --V3O7-- PHASE BY MAGNETOCHEMISTRY 67-05 M14-68911
MAGNETOHYDRODYNAMIC GENERATORS, DESIGN
LIQUID PHASE MAGNETOHYDRODYNAMIC GENERATORS AND THE TECHNOLOGY OF THE ALKALI METALS 67-12 M20-82835
MAGNETOHYDRODYNAMIC WAVES
SEE MAGNETOHYDRODYNAMICS
MAGNETOHYDRODYNAMICS
STUDY OF THE EFFECT OF FREQUENCY ON MAGNETOHYDRODYNAMIC EFFECTS IN AN INDUCTION CRUCIBLE FURNACE 67-02 M06-58875
THE EFFECT OF AN ELECTRIC FIELD UPON SOLUTE REDISTRIBUTION DURING SOLIDIFICATION OF BI-SN ALLOYS 67-12 M14-82968
MAGNETOMETERS
SOME TECHNIQUES FOR SENSITIVE MAGNETIC MEASUREMENTS USING SUPERCONDUCTING CIRCUITS AND MAGNETIC SHIELDS 67-06 M16-70549
THE ROTATING-SAMPLE MAGNETOMETER 67-07 M19-73552
AUTOMATED INDUCTION MAGNETOMETER 67-07 M19-73553
ROTATING FIELD MAGNETOMETER FOR MEASUREMENT OF ANISOTROPIC MAGNETIC MATERIALS 67-08 M15-74932
MAGNETOPLASMA
SEE PLASMA /PHYSICS/
MAGNETORESISTIVITY
MAGNETORESISTANCE IN ELEMENTAL BORON 67-01 M15-58417
SLOW RELAXATION EFFECTS IN MAGNETICALLY NONUNIFORM MATERIALS 67-01 M15-58667
SOME CHARACTERISTICS OF GALVANOMAGNETIC PROPERTIES OF BISMUTH 67-02 M15-59923
THE MAGNETORESISTANCE EFFECT AND THE ELECTRIC RESISTANCE OF SINGLE CRYSTALS OF COBALT 67-02 M15-60275
THEORY OF THE GALVANOMAGNETIC PROPERTIES OF MAGNESIUM AND ZINC 67-02 M15-60766
MAGNETORESISTIVE ELEMENTS AND THEIR APPLICATIONS 67-02 M16-59411
MAGNETORESISTANCE AND COUPLED ORBITS IN TIN 67-03 M15-65032
MAGNETIC BREAKDOWN IN CHROMIUM 67-03 M15-65143
ELECTRICAL RESISTIVITY AND LONGITUDINAL ELECTRICAL MAGNETORESISTIVITY OF PALLADIUM-RICH PALLADIUM-ERBIUM ALLOYS AT LOW TEMPERATURES 67-03 M15-65214
HALL EFFECT AND TRANSVERSE MAGNETORESISTANCE IN SOME FERROMAGNETIC IRON-CHROMIUM ALLOYS 67-03 M16-65026
MAGNETORESISTANCE IN THE EXTREME QUANTUM LIMIT IN N-TYPE INSB 67-03 M16-65109
SHUBNIKOV-DE HAAS EFFECT OF N-TYPE HGTE 67-03 M16-65647
STUDY OF MAGNETIC RESISTANCE OF ORIENTED HEXAGONAL FERRITES 67-04 M15-66485
MAGNETORESISTANCE AND EFFECT OF BLOCH WALLS IN ZONE-MELTED IRON 67-04 M15-67259
DIFFUSED GERMANIUM RESISTORS FOR THERMOMETRY IN 20 TO 70 K. RANGE 67-04 M15-67401
EFFECT OF HYDROSTATIC PRESSURE ON THE MAGNETIC TRANSITION TEMPERATURES OF DY 67-04 M15-67479
GALVANOMAGNETIC PROPERTIES OF SURFACE LAYERS IN INDIUM ARSENIDE 67-04 M16-66764
GALVANOMAGNETIC EFFECTS AND BAND STRUCTURE OF CDSB 67-04 M16-66765
LOW TEMPERATURE TRANSPORT EFFECTS IN N-TYPE GASB AT HIGH MAGNETIC FIELDS 67-04 M16-66767
MAGNETORESISTANCE STUDIES OF HGTE AT LOW TEMPERATURES 67-04 M16-66769
SHUBNIKOV-DE HAAS EFFECT IN TELLURIUM 67-04 M16-66770
NEGATIVE MAGNETORESISTANCE IN THE METALLIC IMPURITY CONDUCTION 67-04 M16-66783
MAGNETORESISTANCE OF HEAVILY DOPED N-TYPE SILICON 67-04 M16-66785
GALVANOMAGNETIC STUDIES OF SN-DOPED BI 67-04 M16-66795
NEW METHODS FOR DE HAAS-SHUBNIKOV MEASUREMENTS 67-04 M16-67103
SHIFT OF THE MAGNETORESISTANCE OSCILLATION MAXIMA DUE TO AN ELECTRIC FIELD IN INSB 67-04 M16-67366
SHUBNIKOV-DE HAAS EFFECT IN IMPURITY BAND 67-04 M16-67424
TRANSIENT MAGNETORESISTANCE OF PHOTOELECTRONS IN CADMIUM SULFIDE 67-04 M16-67472
DIRECT EVIDENCE OF PERSISTENT CURRENT LOOPS IN HARD SUPERCONDUCTING WIRE 67-04 M16-68072
EXPERIMENTS ON THE MAGNETORESISTIVITY AND HALL EFFECT IN NI AND NI ALLOYS. THE VALIDITY OF KOHLERS RULE 67-05 M15-68280
BEHAVIOR OF GALVANOMAGNETIC COEFFICIENTS OF BISMUTH

FILMS IN THE QUANTUM SIZE REGION
67-05 M15-69100
MEASUREMENT OF THE MAGNETORESISTANCE OF P-TYPE SILICON IN STRONG PULSED MAGNETIC FIELDS
67-05 M16-69390
MAGNETORESISTANCE OF UNIAXIALLY STRESSED GERMANIUM IN IMPURITY BAND CONDUCTION REGION
67-05 M16-69754
MAGNETORESISTANCE OF CRYSTALLINE MERCURY
67-06 M15-69913
MOBILITY OF CURRENT CARRIERS AND MAGNETORESISTANCE IN BISMUTH ALLOYS 67-06 M15-70186
ELASTORESISTANCE EFFECT IN THIN FILMS OF CU-NI
67-06 M15-71546
NEGATIVE LONGITUDINAL MAGNETORESISTANCE OF N-TYPE INAS 67-06 M16-70874
SCREENING-ENHANCED SHUBNIKOV-DE HAAS OSCILLATIONS IN SB-DOPED GRAY TIN 67-06 M16-71224
RESISTANCE ANOMALY OF INSB AT VERY LOW TEMPERATURES
67-06 M16-72148
SOME FEATURES OF THE GALVANOMAGNETIC PROPERTIES OF BISMUTH 67-07 M15-72578
GALVANOMAGNETIC PROPERTIES OF SINGLE-CRYSTAL IRON FILMS AND WHISKERS 67-07 M15-73562
MAGNETORESISTANCE OF NICKEL-COPPER SINGLE-CRYSTAL THIN FILMS 67-07 M15-73568
ON THE CHANGE OF ELECTRICAL PROPERTIES CAUSED BY SHORT RANGE ORDER IN THE ALPHA-SOLID SOLUTIONS WITH GOLD-SILVER- OR COPPER-BASE ALLOYS CONTAINING MANGANESE 67-07 M15-73852
RESISTANCE AND MAGNETORESISTANCE OF THIN INDIUM WIRES 67-07 M15-73936
GALVANOMAGNETIC PROPERTIES OF SINGLE-CRYSTAL ANTIMONY BETWEEN 77 AND 273 K
67-07 M16-74060
MAGNETORESISTANCE 67-07 M16-74207
MAGNETORESISTANCE EFFECT AND ELECTRIC RESISTANCE OF SINGLE CRYSTALS OF COBALT 67-08 M15-74406
LONGITUDINAL MAGNETORESISTANCE EFFECT IN SINGLE CRYSTALS OF NICKEL-COPPER ALLOYS
67-08 M15-74427
MAGNETORESISTANCE OF MN-ZN FERRITES IN THE CURIE TEMPERATURE DOMAIN 67-08 M15-74778
ELECTRICAL MAGNETORESISTIVITY OF CHROMIUM-IRON ALLOYS 67-08 M15-75129
THE OBSERVATION OF OPEN ORBITS IN MERCURY BY A TORQUE METHOD 67-08 M15-75820
GALVANOMAGNETIC EFFECTS IN IRON WHISKERS
67-08 M16-74946
SPIN REVERSAL TRANSITIONS IN IMPURITY HOP CONDUCTION 67-08 M16-75827
MAGNETORESISTANCE AND CONDUCTION ELECTRON-IMPURITY SPIN COUPLING IN DILUTE SILVER ALLOYS
67-09 M15-76372
EXPERIMENTAL STUDIES OF MAGNETIC PROPERTIES OF A METAL IN THE NORMAL AND SUPERCONDUCTING STATES
67-10 M15-78397
MEASURING THE MAGNETIC ANISOTROPY OF SINGLE CRYSTALS IN TRANSVERSE VOLTAGE FIELDS
67-10 M15-79016
PECULIARITIES OF THE MAGNETORESISTANCE IN BI IN HIGH TRANSVERSE AND LONGITUDINAL MAGNETIC FIELDS
67-10 M15-79022
LONGITUDINAL MAGNETORESISTANCE AND HALL MOBILITY OF N-TYPE GERMANIUM AT HIGH ELECTRIC FIELDS
67-10 M15-79153
RESISTANCE OF P-INSB IN A STRONG LONGITUDINAL MAGNETIC FIELD 67-10 M15-79473
LOW TEMPERATURE ELECTRICAL PROPERTIES OF SILICON MATERIAL 67-10 M15-80025
THERMOMAGNETIC FIGURES OF MERIT OF BISMUTH AT 77 K
67-11 M15-80301
MAGNETIC BREAKDOWN, FERMI SURFACE, AND GALVANOMAGNETIC PROPERTIES IN ANTIFERROMAGNETIC METALS 67-11 M15-80658
LOW-TEMPERATURE MAGNETORESISTANCE OF N-TYPE GERMANIUM DOPED WITH SMALL AND INTERMEDIATE CONCENTRATIONS OF PHOSPHORUS 67-11 M15-81395
HOP-CONDUCTION MAGNETORESISTANCE IN P-TYPE GERMANIUM 67-11 M15-81396
DIFFUSION SIZE EFFECT IN BISMUTH AT LIQUID HELIUM TEMPERATURES 67-11 M15-81471
NEGATIVE RESISTANCE AND INSTABILITIES OF BISMUTH CRYSTALS IN A MAGNETIC FIELD 67-11 M15-81473
ELECTRICAL RESISTIVITY STUDIES OF CHROMIUM RICH CHROMIUM-GERMANIUM ALLOYS BETWEEN 4 AND 320 K
67-11 M15-81675

MAGNETORESISTIVITY
NEGATIVE MAGNETORESISTANCE IN N-TYPE LEAD SULPHIDE
67-11 M15-81679
HIGH-FIELD MAGNETORESISTANCE OF ORDERED BETA BRASS
67-12 M15-82528
TRANSVERSE MAGNETORESISTANCE IN N-TYPE GERMANIUM
67-12 M15-82534

MAGNETORESISTIVITY, ALLOYING EFFECTS
CONTRIBUTION TO THE KNOWLEDGE OF THE PHYSICAL PROPERTIES OF CU-MN SOLID SOLUTIONS AS DEPENDENT ON PRIOR THERMAL AND MECHANICAL TREATMENTS
67-05 M15-69844

MAGNETORESISTIVITY, IMPURITY EFFECTS
MAGNETORESISTANCE OF N-TYPE GERMANIUM IN THE PHONON-ASSISTED HOPPING CONDUCTION RANGE AT HIGH MAGNETIC FIELDS 67-02 M15-60771
CONDUCTION BAND OF GASB 67-02 M15-61693
RESISTIVITY OF VERY PURE TH AND TH-RARE-EARTH ALLOYS 67-05 M15-69805
GALVANOMAGNETIC STUDIES OF SN-DOPED BI. PT. 1. POSITIVE FERMI ENERGIES 67-05 M15-69815

MAGNETORESISTIVITY, SIZE EFFECTS
SIZE EFFECTS IN THE LONGITUDINAL MAGNETORESISTANCE OF THIN SILVER FILMS 67-07 M15-73939

MAGNETORESISTIVITY, STRESS EFFECTS
EFFECTS OF APPLIED AND RESIDUAL STRESS ON THE MAGNETORESISTANCE OF NICKEL 67-07 M15-73505

MAGNETORESISTIVITY, TEMPERATURE EFFECTS
RESISTANCE ANOMALY AND NEGATIVE MAGNETORESISTANCE IN N-TYPE INSB AT VERY LOW TEMPERATURES
67-05 M15-69820
THE HALL EFFECT, MAGNETORESISTIVITY, AND MAGNETIC SUSCEPTIBILITY OF ALPHA-MANGANESE AT LOW TEMPERATURES 67-10 M15-78782

MAGNETOSTRICTION
OSCILLATORY MAGNETOSTRICTION IN N-GALLIUM ANTIMONIDE 67-01 M16-58579
MAGNETOSTRICTION OF A CO-PT ALLOY
67-02 M15-59661
DYNAMIC MAGNETOSTRICTION OF IRON IN PULSATING FIELDS 67-02 M15-61664
MAGNETOSTRICTION OF IRON IN VARIABLE FIELDS
67-02 M15-61667
EFFECT OF THERMOMECHANICAL TREATMENT ON THE SPECIFIC LOSSES, COERCIVE FORCE AND MAGNETOSTRICTION OF STEEL E330
67-02 M15-61936
THE MAGNETOSTRICTION OF NICKEL 67-03 M15-65189
MAGNETOSTRICTION OF THE METAMAGNETIC IRON-RHODIUM ALLOY 67-03 M15-65305
MECHANISM OF THE EFFECT OF TEMPERING ON THE CRYSTAL LATTICE PARAMETER OF DISPERSION-HARDENED INVARS
67-04 M13-67652
THE MAGNETOSTRICTION OF NI 67-04 M15-67730
DEFORMATION AND TEMPERATURE INFLUENCES ON MAGNETIC PROPERTIES OF NICKEL SINGLE CRYSTALS. PT. 1. DOMAIN WALL DISPLACEMENTS IN 110 AND 111 NICKEL SINGLE CRYSTALS 67-05 M15-69773
DEFORMATION AND TEMPERATURE DEPENDENCE OF THE MAGNETIZATION PROCESS IN NICKEL SINGLE CRYSTALS. PT. 2. BLOCH WALL DISPLACEMENTS AND ROTATIONS OF THE SPONTANEOUS MAGNETIZATION IN --001-- NICKEL SINGLE CRYSTALS 67-06 M15-70984
THE CONSTANTS OF MAGNETOSTRICTION OF IRON CONTAINING 2.56 WT. PER CENT SILICON
67-06 M15-71862
MAGNETOSTRICTION SATURATION OF FESI SINGLE CRYSTALS CONTAINING 4.4 WT PER CENT SI BETWEEN ROOM TEMPERATURE AND CURIE POINT 67-07 M15-72749
VOLUME- AND TEMPERATURE DEPENDENCE OF THE ANISOTROPIC MAGNETOSTRICTION OF IRON, NICKEL AND SOME IRON-ALLOYS 67-07 M15-73303
ORIGIN OF CONSTRICTED MAGNETIZATION LOOPS IN HARD-ROLLED NICKEL AT LOW TEMPERATURES
67-07 M15-73510
DEVELOPMENT AND APPLICATION OF LOW-NOISE 6.5 PER CENT SI-FE SHEET 67-07 M15-73516
FORCED MAGNETOSTRICTION OF NICKEL, COBALT, AND IRON AT 4.2 K 67-07 M15-73561
MAGNETOSTRICTION OF NICKEL SINGLE CRYSTALS
67-07 M15-73563
PROPERTIES OF MANGANESE-PERMALLOY FILMS
67-07 M15-73590
MAGNETOELASTIC COEFFICIENT AND TEMPERATURE RELATIONSHIP IN THIN NI-FE FILMS
67-07 M15-73597
ZERO MAGNETOSTRICTION COMPOSITION OF NIFE FILMS
67-07 M15-73598
PROPERTIES OF HIGHLY-PERMEABLE NI-FE-V ALLOYS
67-07 M15-73810

MAGNETOSTRICTION

PROBLEMS IN THE DEVELOPMENT AND USE OF SILICON-IRONS, ORIENTED CRYSTAL AND NONORIENTED 67-07 M15-73811
OBSERVATION OF DOMAIN STRUCTURE IN STRETCHED SPECIMENS OF HIGH-COERCIVITY VICALLOY ALLOY 67-08 M15-74634
THE THEORY OF SUSCEPTIBILITY AND COERCIVE FORCE OF MAGNETIC MATERIALS 67-08 M15-75247
EFFECT OF THERMOMAGNETIC TREATMENT ON THE MAGNETIC PROPERTIES AND DOMAIN STRUCTURE OF SILICON IRON SINGLE CRYSTALS. PT. 1 67-08 M15-75258
THE TEMPERATURE DEPENDENCE OF THE INTERNAL DEMAGNETIZING FACTOR OF NI 67-08 M15-75646
MAGNETOSTRICTION AND COMPOSITIONAL GRADIENTS IN BOAT-EVAPORATED PERMALLOY FILMS 67-09 M15-77431
FURTHER MEASUREMENTS RELATING TO THE MECHANICAL PROPERTIES OF MASSIVE CEMENTITE 67-10 M15-79069
EFFECT OF MAGNETIC FIELD AND EXTERNAL LOADS ON THE THERMOELECTROMOTIVE FORCES OF FE-NI ALLOYS 67-10 M15-79219
TEMPERATURE DEPENDENCE OF THE MAGNETOSTRICTION CONSTANTS OF SINGLE-CRYSTAL LITHIUM FERRITE 67-10 M15-79464
INFLUENCE OF DISLOCATION STRUCTURE ON COERCIVE FORCE OF SILICON IRON 67-11 M13-80740
MAGNETIC PROPERTIES IN THE COLD WORKED STATE OF IRON-NICKEL-CHROMIUM ALLOYS CONTAINING 35 WT PER CENT NI AND 0-20 WT PER CENT CR 67-11 M15-81071
NONMAGNETOSTRICTIVE COMPOSITIONS OF FE-NI-CO FILMS 67-11 M15-81097
MAGNETIC AND MAGNETOSTRICTION PROPERTIES OF AN ERBIUM SINGLE CRYSTAL IN THE PARAMAGNETIC REGION 67-11 M15-81370
EFFECT OF HYDROSTATIC PRESSURE ON THE FERMI SURFACE OF BE 67-11 M16-80186
INFLUENCE OF MAGNETOSTRICTION ON THE MAGNETIC DOMAIN STRUCTURE OF UNIAXIAL CRYSTALS, ESPECIALLY OF COBALT 67-12 M15-82012
THERMAL RESEARCH INTO THE MAGNETOSTRICTION OF AN FECO ALLOY 67-12 M15-83305

MAGNETOSTRICTION, ALLOYING EFFECTS
STRAIN GAGE FACTOR AND ELECTRICAL AND MAGNETIC PROPERTIES IN AS-COLDWORKED STATE OF IRON-NICKEL-CHROMIUM ALLOYS CONTAINING 35 WT PER CENT NICKEL AND 0-20 WT PER CENT CHROMIUM 67-08 M15-74433

MAGNETOSTRICTION, TEMPERATURE EFFECTS
HIGH-TEMPERATURE MAGNETOSTRICTION IN ALLOYS 67-07 M15-73564
THE MEASUREMENT OF SATURATION MAGNETOSTRICTION OF POLYCRYSTALLINE AND FERROMAGNETIC ALLOYS AND FERRITES IN THE MINUS 140 TC PLUS 160 C. RANGE 67-07 M15-73802

MAGNETS
SEE ALSO ELECTROMAGNETS
PERMANENT MAGNETS
SOLENOIDS
PERMANENT MAGNET CAPABLE OF COLD WORKING 67-01 M20-57518
COBALT-PLATINUM ALLOY MAGNETS--EFFECT OF HIGH TEMPERATURES ON MAGNETIC PROPERTIES 67-06 M15-72266
PROBLEMS OF THE MANUFACTURE OF MAGNETS FOR PARTICLE ACCELERATORS 67-06 M20-72127

MAGNETS, SUPERCONDUCTIVITY
DISTRIBUTION OF NORMAL REGION AFTER S-N TRANSITION IN A SUPERCONDUCTING MAGNET 67-02 M16-60518

MAINS, CORROSION
ADOPTION OF MODIFIED GERMAN STANDARDS FOR INHIBITION OF PIPE CORROSION IN AUSTRIA 67-07 M18-74004
INTERNATIONAL PROTECTION OF NETWORKS AGAINST CORROSION 67-07 M18-74005

MAINS FREQUENCY INDUCTION FURNACES
SEE LOW FREQUENCY INDUCTION FURNACES

MAINTENANCE
METHOD AND APPARATUS FOR REGENERATING SINTERED HARD-ALLOY BOLSTERS USED IN DIES 67-01 M09-58155
REPLACING LARGE BELL OF WAKAYAMA NO. 1 BLAST FURNACE 67-02 M04-58842
METHOD FOR MAKING THE HEARTH OPERATING LAYER 67-02 M04-60092
BUILDUP OF BABBITT LINING DURING REPAIR OF LARGE BEARINGS 67-02 M12-61274
HEARTH MAINTENANCE AND REFRACTORY USAGE WITH HIGH OXYGEN PRACTICE AT FORD MOTOR COMPANY 67-03 M04-65533
REFRACTORY EXPERIENCE IN OPEN HEARTH STEELMAKING IN AUSTRALIA 67-03 M04-65534
THE RECONDITIONING OF LARGE EQUIPMENT PARTS AT METAL WORKS 67-04 M11-66523
WELDING TECHNOLOGY USED IN REPAIR WORK ON THE ROLLING STOCK OF THE GERMAN FEDERAL RAILWAYS 67-04 M11-68007
EFFECT OF PHASE COMPOSITION OF HEARTHS ON THEIR DURABILITY 67-05 M04-68549
EXPERIENCE WITH RECLAIMING MOLDS AT THE KRIVORGG METALLURGICAL WORKS 67-05 M11-68323
METHODS OF LARGE BEARINGS BY SURFACING THE WHITE METAL LINING 67-05 M12-68274
THE EFFECT OF PHASE COMPOSITION OF HEARTHS ON HEARTH LIFE 67-07 M04-72460
EXPERIENCE OF RECONDITIONING INGOT MOLDS AT THE KRIVOI ROG IRON- AND STEEL- WORKS 67-07 M11-72851
GAS METAL-ARC WELDING APPLIED IN MAINTENANCE 67-12 M11-82816
ELECTROSLAG WELDING OF STACK SHELL OF A BLAST FURNACE 67-12 M11-83418

MALCOMIZING
SEE NITRIDING

MALLEABLE CAST IRON
SEE ALSO MALLEABLE IRON
MECHANIZED MALLEABLE IRON FOUNDRY 67-07 M06-73090

MALLEABLE IRON
ANNUAL REVIEW OF MALLEABLE CAST IRON. PT. 4 67-06 M06-70041

MALLEABLE IRON, CASTING
CHANGING CHEMICAL COMPOSITION WHEN MAKING MALLEABLE CAST IRON IN A ROTARY FURNACE 67-04 M06-66654
WILLIAM LEE AND SONS --MALLEABLE--, LTD., COMPLETES PHASE 1 EXPANSION 67-06 M06-72024
MALLEABLE IRON CASTING AUTOMATED 67-09 M06-76515
PRODUCTION OF MALLEABLE TUBE FITTINGS 67-09 M06-77399
AUTOMATIC-MOULDING AND -POURING AT BRITANNIA WORKS 67-09 M06-78032
AUTOMATIC MOULDING SYSTEM EMPLOYED IN A NEW MALLEABLE IRON FOUNDRY 67-10 M06-78389
AUTOMATIC CASTING OF MALLEABLE IRON 67-10 M06-79298
HIGHLY-AUTOMATED FOUNDRY FOR CAST IRON CONDUIT FITTINGS 67-11 M06-81694
LINEAR SHRINKAGE OF MALLEABLE IRON CASTINGS 67-12 M06-82620
NEW MALLEABLE IRON FOUNDRY--AUTOMATIC MOULDING AND POURING 67-12 M06-83161

MALLEABLE IRON, CASTINGS
ACCURACY OF MALLEABLE IRON CASTINGS 67-06 M06-70759
APPLICATION OF MALLEABLE IRON CASTINGS 67-09 M01-77983

MALLEABLE IRON, CLEANING
GRINDING IN THE CASTING PLANT 67-10 M12-79800

MALLEABLE IRON, CORROSION
CORROSION RESISTANCE OF PEARLITIC-FERRITIC MALLEABLE CAST IRON 67-02 M18-61200
HEAT RESISTING PROPERTIES OF THIN IRON CASTINGS 67-04 M18-67113

MALLEABLE IRON, CRYSTAL LATTICES
NUCLEATION AND GROWTH OF GRAPHITE IN MALLEABLE CAST IRON 67-07 M14-73253

MALLEABLE IRON, DEFECTS
SURFACE DEFECTS IN MALLEABLE CAST IRONS 67-10 M19-78726

MALLEABLE IRON, FOUNDRY PRACTICE
CFD BUILDS NEW IRON FOUNDRY 67-04 M06-67498

MALLEABLE IRON, GRAPHITIZATION
COMPLEX MICRO-ALLOYING OF CUPOLA MALLEABLE IRON IN SMALL-BATCH PRODUCTION 67-07 M06-73047

MALLEABLE IRON, HEAT TREATMENT
NEW ANNEALING FACILITY ADDS METALLURGICAL CONTROL TO PRODUCTION 67-01 M10-57439
THE HARDENABILITY OF CAST IRON 67-02 M10-59401
THE CHOICE OF SUITABLE FURNACES FOR THE HEAT TREATMENT OF MALLEABLE CAST IRON 67-03 M06-65351
NUCLEATION OF AUSTENITE ON HEATING MALLEABLE CAST IRON 67-06 M14-70360
ACCELERATED ANNEALING CONDITIONS AND THE MECHANICAL PROPERTIES OF INOCULATED MALLEABLE CAST IRON

67-09 M10-76979
MALLEABLE IRON ANNEALING TUNNEL FURNACE PROVIDES PRECISELY CONTROLLED CYCLE 67-09 M10-77743
CUTTING COST OF MALLEABLE ANNEALING 67-10 M10-79178
THE PRACTICE OF HEAT TREATMENT OF MALLEABLE CAST IRON 67-10 M10-79700
THE ROLE OF SULFUR IN THE GRAPHITIZATION OF MALLEABLE CAST IRON 67-12 M06-82094
ANNEALING MALLEABLE IRON CHILL CASTINGS 67-12 M10-81985

MALLEABLE IRON, MACHINING
HOW HEAT AFFECTS TOOL WEAR 67-01 M09-58509
MATERIAL AND TECHNIQUE FACTORS IN THE MACHINING OF IRON CASTINGS. PT. 1 67-06 M08-72027
COMPARATIVE INVESTIGATIONS INTO THE MACHINABILITY OF GRAPHITE-CONTAINING CAST IRON-BASE MATERIALS 67-07 M08-73247
HOW TO AVOID PROBLEMS IN MACHINING IRON CASTINGS 67-09 M08-77984
IMPACT BURNISHING--TOOL DESIGN AND APPLICATIONS 67-11 M08-81695

MALLEABLE IRON, MECHANICAL PROPERTIES
MALLEABLE IRON--A REVIEW OF SIGNIFICANT ENGINEERING PROPERTIES 67-01 M01-58681
PEARLITIC MALLEABLE FOR WEAR RESISTANCE PAR EXCELLENCE 67-01 M17-57237
RESIDUAL STRESSES IN CAST BODIES 67-02 M17-60212
NEW DATA ON FATIGUE LIFE OF MALLEABLE IRON PARTS 67-03 M17-65024
FATIGUE PROPERTIES OF CAST IRON IN RELATION TO GRAPHITE STRUCTURE 67-05 M17-69879
METALLURGICAL STUDY ON CRACKS--THE CASE OF MALLEABLE CAST IRONS 67-06 M17-72154
OBSERVATIONS ON AN EFFECT OF THE CHARGE MIXTURE ON THE STRUCTURE AND MECHANICAL PROPERTIES OF BLACK-HEART MALLEABLE CAST IRON 67-07 M17-73243
WEAKENING EFFECT OF NEUTRON IRRADIATION ON CAST IRON 67-08 M17-74549
STUDIES OF MALLEABLE IRON CASTINGS WITH SPHEROIDAL GRAPHITE. PT. 1. THE PRODUCTION AND MECHANICAL PROPERTIES OF MALLEABLE IRON CASTINGS WITH SPHEROIDAL GRAPHITE 67-11 M17-80956
STUDIES OF MALLEABLE IRON CASTINGS WITH SPHEROIDAL GRAPHITE. PT. 2. THE PROPERTIES OF MALLEABLE IRON CASTINGS WITH SPHEROIDAL GRAPHITE 67-11 M17-80957
APPLICATION OF DUCTILE IRON FOR CIVIL ENGINEERING 67-11 M20-81533
PLASTIC STRAINS IN MALLEABLE CAST IRON CASTINGS 67-12 M17-81723
PEARLITIC-FERRITIC MALLEABLE CAST IRON IN AGRICULTURAL MACHINERY CONSTRUCTION 67-12 M17-81986
EFFECT OF SB, BI AND B ON THE PROPERTIES OF MALLEABLE CAST IRON 67-12 M17-81987
SILICEOUS FERRITIC MALLEABLE CAST IRON 67-12 M17-82619
THE EFFECT OF SPECIMEN PREPARATION ON THE MECHANICAL PROPERTIES OF MALLEABLE CAST IRON 67-12 M17-82939

MALLEABLE IRON, MELTING
INTEGRATED MELTING AND MOLDING AT WILLIAM LEE 67-06 M06-71039
COMPARATIVE EFFECTIVENESS OF BORON-CONTAINING INOCULANTS 67-12 M06-81988
LOW-CARBON MALLEABLE IRON 67-12 M06-82097

MALLEABLE IRON, MICROSTRUCTURE
COMPLEX MICROALLOYING OF CUPOLA MALLEABLE IRON FOR SMALL-SCALE PRODUCTION 67-01 M06-57325
FORMATION OF AUSTENITE IN FERRITIC MALLEABLE IRON 67-02 M14-61749
INFLUENCE OF BORON AND ALUMINUM ON GRAPHITIZING OF MALLEABLE IRON 67-02 M14-62006
ELECTRON-MICROSCOPE INVESTIGATION INTO THE PRIMARY STRUCTURES OF CHILLED IRONS 67-04 M13-67947
MICROSTRUCTURE STANDARDS FOR MALLEABLE IRON 67-07 M13-73615
THE DETERMINING FACTOR OF THE FORMATION OF SPHEROIDAL GRAPHITE IN MALLEABLE IRON 67-07 M14-74045
NEUTRALIZATION OF CHROMIUM IN MALLEABLE CAST IRON 67-08 M14-74547
INFLUENCE OF BORON AND ALUMINIUM ON THE GRAPHITISATION OF MALLEABLE CAST IRON 67-08 M14-76089
THE USE OF HIGH-TEMPERATURE MICROSCOPY TO INVESTIGATE THE DECAY OF CEMENTITE IN MALLEABLE CAST IRON ALLOYS 67-09 M14-77105
SILICEOUS MALLEABLE CAST IRON WITH A PEARLITIC GRAIN STRUCTURE 67-12 M06-82088

MALLEABLE IRON, PHASE TRANSFORMATIONS
PRODUCTION OF PEARLITIC MALLEABLE CAST IRON WITH ADDITIONS OF BISMUTH AND BORON 67-05 M06-68459
COMBINED ACTION OF SURFACE-ACTIVE AGENTS ON THE NUMBER OF GRAPHITIZATION NUCLEI IN CUPOLA MELTED MALLEABLE IRON 67-08 M14-74546
RESIDUAL BORON AS AN ALLOYING ELEMENT DURING THE INITIATION OF CENTERS OF GRAPHITIZATION IN WHITE CAST IRON CASTINGS 67-09 M06-76984
FACTORS GOVERNING THE FORMATION OF A PEARLITE FRINGE IN MALLEABLE CAST IRON 67-09 M14-76986

MALLEABLE IRON, PHASES /STATE OF MATTER/
THE PHYSICAL NATURE OF THE PROCESS ACCELERATING THE GRAPHITIZATION OF MALLEABLE CAST IRON 67-05 M14-68736

MALLEABLE IRON, REACTIONS /CHEMICAL/
THE KINETICS OF THE DECARBURIZATION OF MALLEABLE CAST IRON INVESTIGATED BY MEASURING THE RADIOACTIVITY OF THE DECARBURIZING GAS 67-10 M14-79659

MALLEABLE IRON, WELDING
WHY WELD CAST IRON 67-03 M11-65176
HIGH SPEED WELDER FOR TORQUE CONVERTER TRANSMISSIONS 67-05 M12-68666

MALLEABLE IRON, X RAY ANALYSIS
X-RAY STRESS MEASUREMENT OF GRAY IRON CASTING WITH FLAKE GRAPHITE AND MALLEABLE IRON CASTING 67-05 M17-68529

MALLEABLIZING
CFD BUILDS NEW IRON FOUNDRY 67-04 M06-67498

MANDRELS
REFRACTORY CORES FOR ANNULAR PELLET NUCLEAR FUEL ELEMENTS 67-03 M16-65622
ROLL-PASS DESIGN OF ROLLS IN A CONTINUOUS MANDREL MILL WITH GROUP DRIVE 67-06 M07-70747
RELATIVE MOVEMENT OF METAL BEING FORMED AND FREE FLOATING MANDREL WHEN ROLLING TUBES ON A CONTINUOUS MILL 67-07 M07-74144

MANDRELS, CASTING
IMPROVEMENT IN TECHNOLOGY FOR PRODUCING HOLLOW WATER-COOLED MANDRELS OF A PIERCING MILL 67-02 M07-61959
IMPROVING THE MANUFACTURE OF HOLLOW WATER-COOLED MANDRELS FOR THE SMALL AUTOMATIC PIERCING BENCH 67-04 M07-67780

MANDRELS, COATING
MULTILAYER REFRACTORY NOZZLES PRODUCED BY PLASMA-SPRAY PROCESS 67-06 M12-70015

MANDRELS, SURFACE HARDENING
EMPLOYING THE TENIFER TREATMENT IN PRESSURE DIE CASTING EXTRUSION AND FORGING TOOLS 67-08 M10-75761

MANGANESE, ALLOYING ADDITIVE
EFFECT OF MANGANESE AND SILICON ON TRANSFORMATION OF SUPERCOOLED AUSTENITE IN COBALT STEEL 67-01 M14-57188
AN X-RAY STUDY OF THE EFFECTS OF NICKEL AND MANGANESE ON THE OCCURRENCE OF STACKING FAULTS IN COPPER-BASE ALLOYS 67-02 M13-60644
INFLUENCE OF CERTAIN ALLOYING ELEMENTS ON THE KINETICS OF FORMATION OF PEARLITE 67-02 M14-62064
EFFECT OF ALLOYING ELEMENTS ON RECRYSTALLIZATION OF MG ALLOYS 67-02 M14-62233
THE EFFECT OF CALCIUM, SILICON, MANGANESE AND CHROMIUM ON THE MECHANICAL PROPERTIES OF FLASH BUTT WELDS 67-02 M17-59110
INFLUENCE OF CHEMICAL COMPOSITION ON THE ANISOTROPY OF THE IMPACT STRENGTH OF SOME CASE-HARDENING STEELS 67-02 M17-62065
IDENTIFICATION AND MORPHOLOGY OF OXIDE PARTICLES IN INTERNALLY OXIDIZED CU-MN ALLOYS 67-03 M14-65215
EFFECT OF MANGANESE ON DESULFURIZATION OF THE SYSTEM FE-C-S-MN IN VACUUM 67-04 M04-66025
EFFECTS OF MANGANESE ON THE ELIMINATION OF SULFUR AND PHOSPHORUS IN THE OXYGEN-BLOWN CONVERTER PROCESS 67-04 M04-67229
EFFECT OF MANGANESE ON THE STRUCTURE AND PROPERTIES OF NONMAGNETIC STAINLESS STEELS 67-04 M15-67974
PIG IRON WITH A HIGH CONTENT OF MANGANESE FOR

CASTING WEAR-RESISTANT PARTS 67-04 M17-67440
EFFECT OF THE CARBON AND MANGANESE CONCENTRATIONS ON THE PROPERTIES OF LOW-ALLOYED STEEL CONTAINING SMALL AMOUNTS OF NIOBIUM 67-04 M17-67958
INFLUENCE OF MINOR ALLOY ELEMENTS ON STRUCTURE OF SURFACE OXIDES FORMED DURING HIGH-TEMPERATURE OXIDATION OF AN AUSTENITIC STEEL 67-04 M18-66733
CONTRIBUTION TO THE KNOWLEDGE OF THE PHYSICAL PROPERTIES OF CU-MN SOLID SOLUTIONS AS DEPENDENT ON PRIOR THERMAL AND MECHANICAL TREATMENTS 67-05 M15-69844
MAGNETIC PROPERTIES OF ZINC-RICH ZINC-MANGANESE ALLOYS IN THE LIQUID AND SOLID STATE 67-06 M15-71662
THE EFFECTS OF MANGANESE AND ZIRCONIUM ON THE HOT SHORTNESS OF AL-MG-ZN SYSTEM ALLOYS 67-06 M17-70382
PROPERTIES OF MANGANESE-PERMALLOY FILMS 67-07 M15-73590
ON THE CHANGE OF ELECTRICAL PROPERTIES CAUSED BY SHORT RANGE ORDER IN THE ALPHA-SOLID SOLUTIONS WITH GOLD-SILVER- OR COPPER-BASE ALLOYS CONTAINING MANGANESE 67-07 M15-73852
PARAMAGNETIC RELAXATION OF MANGANESE IN COPPER METAL 67-07 M16-73544
THE STRUCTURE OF GRAY CAST IRON WITH DIFFERENT CONTENTS OF MANGANESE AND SULFUR 67-08 M06-74617
EFFECTS OF PIG IRON AND ALLOY ELEMENTS UPON THE AS-CAST MICROSTRUCTURE AND MECHANICAL PROPERTIES OF SPHEROIDAL GRAPHITE CAST IRON 67-08 M06-74621
PHASE DIAGRAM OF THE ALUMINUM-RICH PORTION OF AL-MN-LI 67-08 M13-75892
MAGNETIC RESONANCE OF MN IN PBS, PBSE, AND PBTE 67-08 M16-75928
ADDING MANGANESE TO ALUMINUM AND ITS ALLOYS 67-09 M03-76806
THE EFFECT OF THE ADDITION OF MANGANESE ON THE PROPERTIES OF NEW MAGNET ALLOY MALCOLLOY IN THE COBALT AND ALUMINUM SYSTEM 67-09 M15-77995
HOW TO UPGRADE FREE-MACHINING PROPERTIES 67-10 M08-79763
FACTORS INFLUENCING THE QUALITY OF WELDS OBTAINED BY SUBMERGED MELT --FLUX-- WELDING 67-10 M11-79796
EFFECTS OF MANGANESE ON THE STRUCTURE AND PROPERTIES OF AUSTENITIC STEEL 67-10 M13-78925
INVESTIGATIONS OF THE STRUCTURE OF CONTINUOUSLY CAST ALMGSI1 - ALLOYS WITHOUT AND WITH ADDITION OF MANGANESE 67-10 M14-79085
CHANGE IN CHEMICAL COMPOSITION OF RIMMING CONVERTER STEEL IN THE LADLE ON POURING 67-11 M04-81443
INFLUENCE OF IRON AND MANGANESE ON THE PROPERTIES OF PRESSURE DIE-CAST A-S10 U4 ALLOY 67-11 M06-80528
THE USE OF ALLOYED HARD CAST IRON IN INDUSTRY 67-11 M13-81542
THE EFFECT OF THE FOUR MOST IMPORTANT ALLOYING ELEMENTS OF CAST IRON 67-11 M14-81384
EFFECTIVE FIELDS IN DILUTE ALLOYS OF MN IN CU AND AU 67-11 M15-80188
EFFECT OF MANGANESE ON THE PROPERTIES OF MGZN-1 R. E. M. ALLOY SHEETS 67-11 M17-81162
RELATION BETWEEN COLD BRITTLENESS AND THE BEHAVIOR OF CARBON IN IRON IN THE PRESENCE OF MANGANESE 67-11 M17-81417
EFFECT OF MN, SI AND TI ON THE PROPERTIES OF KH8M4D4 STEEL 67-12 M06-83032
SOME CONSIDERATIONS ON THE TURNING OF ALUMINUM-MANGANESE CAST ALLOYS 67-12 M08-81904
ANTIFERROMAGNETISM OF GAMMA-FEMN ALLOYS. PT. 3. SPECIFIC HEAT AND THERMOELECTRIC POWER STUDIES 67-12 M15-81763
EXCHANGE ANISOTROPY OF FE65--NI1-XMNX--35 ALLOYS 67-12 M15-81764
ELECTRICAL RESISTIVITY OF CHROMIUM ALLOYS 67-12 M15-81766
EXPERIMENTAL TEST OF RIGID BAND MODELS FOR CR BY MEANS OF CR-V-MN TERNARY DILUTE ALLOYS 67-12 M16-81760

MANGANESE, ATOMIC PROPERTIES
A REPLY TO HUME-ROTHERYS NOTE ON THE ENGEL-BREWER THEORY 67-06 M16-71969
COMMENTS ON PAPERS RESULTING FROM HUME-ROTHERYS NOTE-1965 67-06 M16-71970

MANGANESE, BAND THEORY
NUCLEAR MAGNETIC RELAXATION IN FERROMAGNETIC TRANSITION METALS 67-02 M16-59478

MANGANESE, BENEFICIATION
PROCESSING OXIDE AND CARBONATE MANGANESE ORES, BENEFICIATION TAILINGS AND BYPRODUCTS CONTAINING MANGANESE 67-07 M03-73038

MANGANESE, BINARY SYSTEMS
MICROANALYSIS OF OXIDIZED MOLTEN IRON ALLOYS 67-04 M19-67269
PHASE DIAGRAM OF THE MN-SI SYSTEM IN THE REGION OF HIGHER MANGANESE SILICIDE 67-05 M13-69230
INVESTIGATION OF THE TRANSFORMATION BEHAVIOR OF IRON-MANGANESE ALLOYS BY DAMPING MEASUREMENTS IN THE REGION OF 1 CYCLE/SEC 67-06 M14-70259
INVESTIGATIONS ON THE BINARY SYSTEMS OF MANGANESE WITH YTTRIUM, SAMARIUM, GADOLINIUM, DYSPROSIUM, HOLMIUM, AND ERBIUM USING THE AMALGAM PROCESS 67-06 M14-71657
CONSTITUTION OF BINARY ALLOYS OF GADOLINIUM, DYSPROSIUM, HOLMIUM AND ERBIUM WITH MANGANESE 67-06 M14-71861
HYPERFINE INTERACTIONS AT FE57 NUCLEI IN INTERMETALLIC COMPOUNDS OF THE FE-MN SYSTEM WITH THE BETA-MANGANESE STRUCTURE 67-07 M16-73529
THE ALPHA-GAMMA EQUILIBRIUM IN FE-MN, FE-MO, FE-NI, FE-SB, FE-SN AND FE-W SYSTEMS 67-06 M13-75813
LOCALIZED IMPURITY STATES IN LIQUID METALS-- PARAMAGNETIC SUSCEPTIBILITIES OF MANGANESE IN LIQUID METALS 67-08 M15-75053
INVESTIGATION OF TRANSFORMATIONS IN THE SOLID STATE IN ALLOYS OF THE CHROMIUM-MANGANESE SYSTEM 67-09 M13-76964
LAYER STRUCTURE OF CODEPOSITED MN-AL ALLOY FILM 67-11 M13-80819
ITINERANT ANTIFERROMAGNETISM IN CHROMIUM ALLOYS 67-12 M15-82905

MANGANESE, BRAZING ALLOYS
MN AS AN ALLOYING COMPONENT IN BRAZING ALLOYS FOR LMS 60 BRASS. PT. 1 67-04 M11-67080

MANGANESE, CHEMICAL ANALYSIS
MICROSCOPIC AMOUNTS OF COBALT AND MANGANESE IN ELECTROLYTICALLY PRODUCED IRON DETERMINED BY NEUTRON-ACTIVATION ANALYSIS 67-09 M19-76707

MANGANESE, COATING
ELECTRODEPOSITION OF SOME METALS FROM TETRAMETHYLUREA 67-03 M12-65809

MANGANESE, COATINGS
THE ANODIC PROCESS IN MANGANESE PLATING 67-11 M12-80446
ON THE ELECTRODEPOSITION OF MANGANESE AND MANGANESE-BISMUTH ALLOY 67-11 M12-80448

MANGANESE, CORROSION
STUDY OF THE ELECTROCHEMICAL PROPERTIES OF MANGANESE DURING OPERATION OF CHEMICAL CURRENT SOURCES 67-11 M18-80428

MANGANESE, CRYSTAL LATTICES
THE LATTICE PARAMETERS OF ALPHA-MANGANESE AT LOW TEMPERATURES 67-05 M13-69377
A REFINEMENT OF THE PARAMETERS OF ALPHA MANGANESE 67-08 M13-76135

MANGANESE, DEOXIDIZERS
BEHAVIOR OF NONMETALLIC INCLUSIONS DURING ROLLING OF STEEL DEOXIDIZED WITH THE COMBINATIONS MN-AL AND SI-AL. PT. 5. DEFORMATION OF INCLUSIONS IN STEEL DURING ROLLING 67-06 M04-72211
RATE OF MANGANESE AND SILICON COMPLEX DEOXIDATION OF STEEL. PT. 4. KINETIC RESEARCHES INTO THE DEOXIDATION OF STEEL 67-06 M04-72291

MANGANESE, DIFFUSION
STUDY OF THE KINETICS OF DIFFUSION OF SEVERAL ELEMENTS FROM THE SAME SOURCE 67-06 M14-70322
MOBILITY OF ATOMS OF ALLOYED ELEMENTS IN AUSTENITE 67-08 M14-74958
OXIDATION BEHAVIOR OF MIXED FE AND MN PROTOXIDES AND THEIR LACUNAR STRUCTURE 67-11 M14-80357
DISSOLUTION OF MANGANESE IN ACID ELECTROLYTES 67-11 M15-81280

MANGANESE, ELECTROWINNING
INVESTIGATION OF THE MANUFACTURING PROCESS OF ELECTROLYTIC MANGANESE FROM MANGANESE CONCENTRATES 67-09 M03-76824

MANGANESE, EXTRACTION
DEVELOPMENT AND STUDY OF THE CHEMICAL PROCESS OF MANGANESE RECOVERY FROM SLURRIES 67-02 M02-59692

MANGANESE EXTRACTION FROM LEAN ORES BY ROASTING WITH ADDITION OF AMMONIUM SALTS 67-02 M03-59542
PROBLEMS OF EXTRACTING MANGANESE USING RECENTLY PUBLISHED DATA 67-02 M03-59585
CRYSTALLIZATION OF METALS ON THE CATHODE DURING ELECTROLYSIS OF FUSED SALTS 67-02 M03-59647
OBTAINING MANGANESE FROM LEAN MANGANESE CARBONATE ORES BY HYDROMETALLURGICAL METHODS. PT. 1. WET EXTRACTION OF MANGANESE BY SOLUTIONS CONTAINING SULFURIC ACID. PT. 2. PURIFYING THE SOLUTIONS OBTAINED BY LEACHING THE ORES WITH SULFURIC ACID 67-04 M02-67227
ELECTRODEPOSITED METALS HARVESTED WITH ELECTROHYDRAULIC SHAKER 67-04 M03-66736
PROCESSING 2ND GRADE MANGANESE ORES BY THE MONOCHARGE METHOD 67-06 M04-70372
CONTRIBUTION TO THE ELECTROLYTIC PRECIPITATION OF MANGANESE 67-07 M03-73225
A ONE-STEP OPERATION FOR RECOVERY OF MANGANESE AS CHLORIDE FROM ORES AND SLAGS 67-08 M03-74673
THE PRODUCTION OF LOW CARBON FERROMANGANESE FROM LIQUID MANGANESE SILICIDE IN A FUEL FIRED ROTARY FURNACE 67-08 M04-76191
INVESTIGATIONS OF THE POSSIBILITY OF EXTRACTING MANGANESE FROM LEAN MANGANESE ORES 67-10 M03-79859
ELECTROCHEMISTRY AND THE EXTRACTION OF MANGANESE AND ITS COMPOUNDS 67-11 M03-80425
DATA ON THE POLARIZATION OF ELECTRODES IN SOLUTIONS, RELATED TO THE EXTRACTION OF MANGANESE BY ELECTROLYSIS 67-11 M03-80426
THE PRODUCTION OF ELECTROLYTIC MANGANESE FROM FERROMANGANESE BY THE CLOSED PRODUCTION CYCLE 67-11 M03-80429
ELECTROLYSIS OF NITRATE OF MANGANESE SOLUTIONS 67-11 M03-80430
METHODS OF INCREASING CURRENT EFFICIENCY IN THE ELECTROLYTIC EXTRACTION OF MANGANESE. EFFECT OF PHENOL 67-11 M03-80431
EFFECT OF SULFUR AND SELENIUM ON THE ELECTRODEPOSITION OF MANGANESE 67-11 M03-80433
EFFECT OF MNS206 ON THE ELECTROLYSIS OF MANGANESE 67-11 M03-80434
EXTRACTION OF CHLOROUS MANGANESE, CHLORINE, AND ELECTROLYTE FOR ELECTROLYTIC MANGANESE FROM OXIDI MANGANESE ORE AND HYDROCHLORIC ACID 67-11 M03-80436
EXTRACTION OF MNO2 BY ELECTROLYSIS FROM INTERMEDIATE PRODUCTS BY HYDROCHLORIC PROCESSING OF LEAN CARBONATE ORES 67-11 M03-80437
EFFECT OF CARBON IN MANGANESE ALLOYS ON PRODUCTS AND THE PROCESS OF THEIR ANODIC DISSOLUTION IN ALKALINE ELECTROLYTICS 67-11 M03-80438
CERTAIN TECHNICAL PROBLEMS OF THE ELECTROCHEMISTRY OF MANGANESE 67-11 M03-80440
CHLORIDIC METHODS FOR ELECTROLYTIC EXTRACTION OF PURE MANGANESE 67-11 M03-80442
ANODIC BEHAVIOR OF MANGANESE PHOSPHIDE --METAL BYPRODUCT--IN CHLORIDIC ELECTROLYTE 67-11 M03-80443
ELECTROCHEMICAL PRODUCTION OF HIGH PURITY MANGANESE 67-11 M03-80444
THE THEORY OF THE CATHODIC REDUCTION OF MANGANESE DIOXIDE 67-11 M03-80449
ON THE ELECTRODEPOSITION OF MANGANESE FROM SULFURIC ACID SOLUTIONS UNDER THE EFFECTS OF CERTAIN ADDITIVES 67-11 M03-80451
STUDY OF THE ELECTROLYSIS OF MANGANESE CHLORIDE SOLUTIONS 67-11 M03-80453
ANODIC POLATIZATION OF FERROMANGANESE AND CERTAIN OF ITS COMPONENTS IN ALKALINE SOLUTIONS OF POTASSIUM MANGANATE 67-11 M03-80454
EFFECT OF VARIOUS FACTORS ON THE ELECTRODEPOSITION OF MANGANESE USING A TITANIUM CATHODE 67-11 M03-80455
CURRENT-POTENTIAL EFFECTS OF ADDITIVES IN MANGANESE ELECTROWINNING. PT. 2 67-12 M03-82585

MANGANESE, FERRITES
X-RAY DIFFRACTION STUDY OF CERTAIN MIXED FERRITES 67-02 M13-61666

MANGANESE, INCLUSIONS
THE FORMATION OF MANGANESE SULFIDE IN GRAY CAST IRONS DURING SOLIDIFICATION 67-05 M06-68950

MANGANESE, INTERMETALLICS
MAGNETIC PROPERTIES OF RARE EARTH-MANGANESE COMPOUNDS 67-01 M15-58662
THE CRYSTAL STRUCTURES OF LUMN5 AND THE RMN12 COMPOUNDS --WHERE R EQUALS GD, TB, DY, HO, ER AND TM-- 67-02 M13-59096
MAGNETIC STRUCTURE OF THE ZETA PHASE OF PD3MN2 ALLOY 67-02 M15-59066
THE THERMOCHEMISTRY OF MN3SI 67-02 M15-59892
MAGNETOELASTIC PROPERTIES OF THE ANTIFERROMAGNETIC COMPOUND MNAU2 67-02 M15-61923
NUCLEAR MAGNETIC RESONANCE OF CUBIC FERROMAGNETIC COMPOUNDS CO2MNSN AND COMNSB 67-02 M16-59472
IRRADIATION OF HEUSLER ALLOYS 67-02 M16-61116
METHODS FOR INTERPRETING ELECTRON DIFFRACTION PATTERNS OF THIN ALLOY FILMS 67-05 M13-68439
MAGNETIC STRUCTURE TRANSFORMATION IN MNPT 67-05 M15-69375
COEXISTING PHASES IN PARTIALLY ORDERED MNNI3 67-06 M13-71997
NUCLEAR SPECIFIC HEATS OF MNNI AND MNNI3 67-06 M15-71998
INVESTIGATION OF THE FIRST-ORDER MAGNETIC TRANSFORMATION IN MN3PT 67-07 M15-73550
DIRECT OBSERVATION OF DOMAIN-WALL MOVEMENTS IN MNBI FILMS 67-07 M15-73557
HIGH-PRESSURE STUDY OF THE FIRST-ORDER PHASE TRANSITION IN MNAS 67-08 M16-75930
INVESTIGATIONS ON THE SOLID SOLUTION SERIES-- Y6MN23-Y6FE23 AND YMN2-YFE2 67-09 M13-77025
ATOMIC AND MAGNETIC ORDER IN MN2PD3 67-09 M15-77673
NEUTRON DIFFRACTION ANALYSIS OF FE-CO ATOMIC FERROMAGNETIC SUPERLATTICES 67-10 M13-79916
EFFECT OF PRESSURE ON THE CURIE TEMPERATURE OF CRTE AND MNSB COMPOUNDS OF NICKEL ARSENIDE TYPE 67-10 M15-78717
MAGNETIC PROPERTIES OF THE COMPOUND MN3GE2 IN STRONG MAGNETIC FIELDS 67-10 M15-79540
INTERNAL MAGNETIC FIELDS AT SN119 NUCLEI IN HEUSLER ALLOYS 67-11 M15-80783
CONCERNING A NEW TERNARY PHASE, NBMNSI 67-12 M13-82286

MANGANESE, IRON AND STEEL MAKING
USE OF MANGANESE IN THE UKRAINIAN IRON AND STEEL INDUSTRY 67-01 M04-58288

MANGANESE, LIQUID METALS
MEASUREMENT OF OXYGEN ACTIVITY IN IRON, IRON-SILICON MANGANESE, AND IRON-MANGANESE MELTS USING SOLID ELECTROLYTE GALVANIC CELLS 67-12 M15-82741

MANGANESE, MAGNETIC PROPERTIES
EXCHANGE ANISOTROPY IN THIN MAGNETIC FILMS 67-06 M15-71833
NUCLEAR MAGNETIC RELAXATION IN ANTIFERROMAGNETIC ALPHA-MN METAL NEAR THE NEEL TEMPERATURE 67-08 M16-75054
THE HALL EFFECT, MAGNETORESISTIVITY, AND MAGNETIC SUSCEPTIBILITY OF ALPHA-MANGANESE AT LOW TEMPERATURES 67-10 M15-78782

MANGANESE, MELTING
STUDY OF SLAG-METAL EQUILIBRIA BY LEVITATION MELTING.. APPLICATION TO THE FE-MN-O SYSTEM 67-04 M14-66984

MANGANESE, OXIDATION
SPECIAL FEATURES OF THE KINETICS OF OXIDATION OF MANGANESE 67-09 M18-77043
INVESTIGATION OF THE ELECTROCHEMICAL BEHAVIOR OF MANGANESE AND NICKEL ON A MERCURY ELECTRODE 67-11 M18-80445

MANGANESE, PHYSICAL PROPERTIES
THE THERMAL AND ELECTRICAL CONDUCTIVITIES OF SCANDIUM, YTTRIUM AND MANGANESE AND TWELVE RARE-EARTH METALS, AT NORMAL TEMPERATURE 67-03 M15-65126
MICROMETHOD FOR DETERMINING THE FUSION POINTS OF REFRACTORY COMPOUNDS 67-05 M15-68705

MANGANESE, QUATERNARY SYSTEMS
ON THE STRUCTURE OF URANIUM-MANGANESE-ALUMINUM-IRON ALLOYS WITH CONSTANT URANIUM CONTENT OF 50 AT. PER CENT 67-02 M13-60119
THE QUATERNARY SYSTEM, U-UMN2-UAL2-UFE2 67-02 M13-60877

MANGANESE, REACTIONS /CHEMICAL/
REACTIONS OF MANGANESE WITH SILICA 67-04 M04-67032

MANGANESE, REDUCTION /CHEMICAL/
NATIONAL METALLURGICAL LABORATORY, ANNUAL REPORT 67-06 M01-71435

MANGANESE, REFINING
PRODUCTION OF MANGANESE METAL WITH LOW MAGNESIUM AND CALCIUM CONTENTS 67-02 M03-59861
ELECTROLYTIC MANGANESE AND ELECTROLYSIS OF

CHLORIDES 67-08 M03-74478
CATHODIC PROCESS IN THE ELECTROLYSIS OF SOLUTIONS OF MANGANESE CHLORIDE 67-08 M03-74479
ELECTROCHEMICAL REFINEMENT OF FERROMANGANESE PHOSPHIDE IN CHLORIDE ELECTROLYTES FOR THE PRODUCTION OF PURE MANGANESE 67-08 M03-74481
KINETICS OF THE EVOLUTION OF NITROGEN FROM MN-FE AND MN-SI ALLOYS INVESTIGATED BY MASS SPECTROMETRY 67-08 M03-75450
PRODUCTION OF METALLIC MANGANESE BY ELECTROLYSIS OF A HIGH-PHOSPHORUS MANGANESE ALLOY IN MOLTEN MEDIA 67-08 M13-74482
HIGH-PURITY MANGANESE PRECIPITATES 67-11 M03-80435

MANGANESE, REMOVAL
MANGANESE REMOVAL IN THE PRODUCTION OF TRANSFORMER STEEL 67-11 M04-81653

MANGANESE, STEEL MAKING
BEHAVIOUR OF MANGANESE IN THE BASIC OXYGEN PROCESS 67-07 M04-74064

MANGANESE, TERNARY SYSTEMS
THE TERNARY EQUILIBRIUM SYSTEM CU-MN-AL 67-05 M13-69851
PHASE EQUILIBRIA IN CR-CO-B, MN-FE-B AND MN-CO-B SYSTEMS 67-06 M13-70215
OPTICAL ABSORPTION OF ALUMINIUM AND SOME ALUMINIUM-MAGNESIUM ALLOYS 67-06 M16-70572
TERNARY COMPOUNDS WITH A SUPERLATTICE OF THMN12 TYPE IN THE YTTRIUM-TRANSITION METAL-ALUMINUM SYSTEMS 67-07 M13-73480
MAGNETIC PROPERTIES OF FE65 --NI1-XMNX--35 TERNARY ALLOYS 67-07 M15-72407
COBALT, NICKEL AND COPPER PHASES IN TERNARY MNCU2AL SOLUTION 67-09 M13-77572
THE PHASE EQUILIBRIA IN THE TERNARY SYSTEMS ZIRCONIUM-VANADIUM-BORON, ZIRCONIUM-NIOBIUM-BORON AND ZIRCONIUM-MANGANESE-BORON 67-10 M13-79346
STUDIES ON PROPERTIES OF SOME TERNARY COPPER ALLOYS OF THE CU-MN-ZN AND CU-MN-NI SYSTEM 67-10 M17-78607
STUDY OF THE MG2SN-MG2GE SYSTEM 67-12 M13-83354

MANGANESE, THERMAL PROPERTIES
SOLID MANGANESE VAPOR PRESSURE 67-04 M15-66820
MEASUREMENT OF THE PARTIAL HEATS OF EVAPORATION OF MANGANESE AND ITS COMPOUNDS IN THE SYSTEMS MN-FE AND MN-SI BY A MASS SPECTROMETER 67-11 M15-81211

MANGANESE, THIN FILMS
EFFECT OF SELENIOUS ACID ON THE ELECTRODEPOSITION OF MANGANESE 67-03 M12-65658

MANGANESE BASE ALLOYS
MANGANESE-BASE ALLOY 67-05 M01-69234

MANGANESE BASE ALLOYS, CHEMICAL ANALYSIS
X-RAY FLUORESCENCE ANALYSIS IN A STEEL FOUNDRY 67-03 M19-65010
X-RAY FLUORESCENCE ANALYSIS OF DY, HO, AND ER ALLOYS WITH MN 67-09 M19-78112

MANGANESE BASE ALLOYS, COATINGS
ON THE ELECTRODEPOSITION OF MANGANESE AND MANGANESE-BISMUTH ALLOY 67-11 M12-80448
ELECTRODEPOSITION OF MANGANESE ALLOYS CONTAINING NICKEL FROM SULFATE ELECTROLYTES 67-11 M12-80456
PRODUCING GALVANIC COATINGS FROM A MN-CR ALLOY 67-11 M12-80458

MANGANESE BASE ALLOYS, CORROSION
ELECTRODE POTENTIALS AND DATA FROM CORROSION TESTING OF AL-MN ALLOYS IN NEUTRAL WEAK-ACID AND ALKALINE SOLUTIONS 67-11 M18-80452

MANGANESE BASE ALLOYS, CRYSTAL LATTICES
COMPOUNDS WITH TH6MN23-TYPE STRUCTURES IN ALLOYS OF THE RARE-EARTH METALS WITH MANGANESE AND IRON 67-02 M13-61789

MANGANESE BASE ALLOYS, HEAT TREATMENT
NITRIDING OF FERROMANGANESE 67-11 M10-80450

MANGANESE BASE ALLOYS, MAGNETIC PROPERTIES
COMPOSITION AND ATOMIC ORDER DEPENDENCE OF THE MAGNETIZATION OF NI-MN ALLOYS 67-01 M15-57342
MAGNETIZATION PROCESSES IN THE HIGH-FIELD RANGE OF FERROMAGNETICS MADE BY PRESSING FERROMAGNETIC PARTICLES 67-04 M15-66484
EQUIATOMIC TRANSITION METAL ALLOYS OF MANGANESE. PT. 5. ON THE MAGNETIC PROPERTIES OF THE PTMN PHASE 67-04 M16-68157
NEUTRON DIFFRACTION STUDY OF ORDERED NI-MN ALLOYS 67-05 M14-68243
CRYSTAL STRUCTURE AND MAGNETIC PROPERTIES OF HIGH-COERCIVITY MN-AL ALLOY 67-06 M15-72340
EFFECT OF PLASTIC DEFORMATION ON THE MAGNETIC PROPERTIES OF HIGH-COERCIVITY MN-AL ALLOY 67-06 M15-72359
NUCLEAR MAGNETIC RELAXATION IN ANTIFERROMAGNETIC ALPHA-MN METAL NEAR THE NEEL TEMPERATURE 67-08 M16-75054
THE MAGNETIC AND CRYSTALLOGRAPHIC PROPERTIES OF MNBI STUDIED BY NEUTRON DIFFRACTION 67-12 M15-83489

MANGANESE BASE ALLOYS, MECHANICAL PROPERTIES
MECHANICAL PROPERTIES OF EPSILON- AND GAMMA-PHASES IN IRON-MANGANESE ALLOYS 67-01 M17-58055

MANGANESE BASE ALLOYS, MELTING
USING OXIDIZED USINSK ORES FOR MELTING MANGANESE ALLOYS 67-08 M04-75028

MANGANESE BASE ALLOYS, METALLOGRAPHY
METHOD OF EXPOSING THE MICROSTRUCTURE OF MANGANESE ALLOYS 67-02 M13-58830

MANGANESE BASE ALLOYS, MICROSTRUCTURE
METHOD OF REVEALING THE MICROSTRUCTURE OF MANGANESE-BASE ALLOYS 67-04 M13-68076

MANGANESE BASE ALLOYS, PHASE TRANSFORMATIONS
PHASE TRANSFORMATIONS IN THE FE-MN SYSTEM AT HIGH HYDROSTATIC PRESSURES 67-11 M14-81169

MANGANESE BASE ALLOYS, PHYSICAL PROPERTIES
SOLUBILITY OF GASES IN MANGANESE-BASED LIQUID ALLOYS 67-08 M15-74571
SOLUBILITY OF CARBON IN COPPER-MANGANESE ALLOYS IN THE LIQUID STATE BETWEEN 1000 AND 1250 C 67-10 M14-79925
ANODIC POLATIZATION OF FERROMANGANESE AND CERTAIN OF ITS COMPONENTS IN ALKALINE SOLUTIONS OF POTASSIUM MANGANATE 67-11 M03-80454
STUDY OF THE PHYSICO-CHEMICAL PROPERTIES OF MANGANESE ALLOYS IN LIQUID STATE 67-11 M15-80432

MANGANESE BASE ALLOYS, REACTIONS /CHEMICAL/
POSSIBILITY OF USING CARBONATE ORES TO OBTAIN FERROMANGANESE 67-06 M02-70157

MANGANESE BASE ALLOYS, REFINING
KINETICS OF THE EVOLUTION OF NITROGEN FROM MN-FE AND MN-SI ALLOYS INVESTIGATED BY MASS SPECTROMETRY 67-08 M03-75450
SOME PROBLEMS IN REFINING FERROMANGANESE IN MOLTEN ELECTROLYTES 67-11 M03-80427

MANGANESE BASE ALLOYS, SOLUBILITY
THE SOLUBILITY OF CARBON AND GASES IN METALS 67-08 M14-75029

MANGANESE BASE ALLOYS, STEEL MAKING
USE OF MANGANESE-ALUMINUM ALLOYS IN THE PRODUCTION OF DEEP DRAWING ALUMINUM KILLED STEEL 67-03 M04-65537

MANGANESE BASE ALLOYS, THERMODYNAMICS
THERMODYNAMICS OF MNSI1.70 ALLOY 67-04 M15-67601
THERMODYNAMIC PROPERTIES OF SOLID SOLUTIONS OF THE MANGANESE-COBALT SYSTEM 67-09 M15-77293

MANGANESE BRONZES, MECHANICAL PROPERTIES
SELECTING AN ANNEALING TEMPERATURE FOR WELDED BRASS CONSTRUCTIONS 67-04 M17-66433
SELECTING THE STRESS RELIEVING TEMPERATURE FOR BRASS STRUCTURES 67-07 M17-72692

MANGANESE BRONZES, MELTING
COPPER AND ALUMINUM --NON-FERROUS AND LIGHT METALS AND ALLOYS--. PT. 2 67-04 M06-66243

MANGANESE BRONZES, WELDING
A NEW TYPE OF ELECTRODE FOR DEPOSITING CAST MANGANESE-ALUMINUM BRONZE 67-01 M12-57158

MANGANESE COMPOUNDS
PRODUCTION OF SILICOMANGANESE BY A TOTALLY ENCLOSED HEARTH ROTATING TYPE LARGE ELECTRIC FURNACE 67-02 M04-60039

MANGANESE COMPOUNDS, BENEFICIATION
METHOD FOR SINTERING SULFIDE-MAGNETITE ORES AND CONCENTRATES 67-02 M02-59533
PRODUCTION OF FLUXED SINTER FROM MANGANESE CONCENTRATE AND SEPARATION OF MANGANESE CONVERTER SLAG 67-02 M02-60056
MANGANESE CARBONATE FROM LOW-GRADE INDIAN MANGANESE ORES 67-05 M03-68477
HOW THE BASICITY OF A FLUXED MANGANESE SINTER AFFECTS ITS PHASE MAKE-UP 67-06 M02-70179
HYDROMETALLURGICAL METHOD OF OBTAINING LOW-PHOSPHORUS MANGANESE CONCENTRATES 67-06 M02-71869
EXAMINATION OF THE REACTION BETWEEN MANGANESE CARBONATE AND AMMONIUM CHLORIDE WITH THE

OBJECT OF RECOVERING MANGANESE FROM CARBONATE MANGANESE ORES. PT. 1 67-09 M02-76878
HOW EXTENT OF FLUXING AFFECTS INDEXES AND PRODUCT QUALITY IN SINTERING MANGANESE MATERIALS 67-09 M02-76880
OPTIMUM CONDITIONS FOR ROASTING MNCO3 ORES FROM BULGARIAN SITE AND THE MINERALOGICAL COMPOSITION OF MANGANESE SINTERS 67-09 M02-77621
ELECTROREFINEMENT OF LEAN MANGANESE ORES AND SLIMES IN HYDROCHLORIC ELECTROLYTES, AS A METHOD OF BENEFICIATION 67-11 M02-80441
AN ELECTROCHEMICAL METHOD OF BENEFICIATING MANGANESE ORES 67-11 M02-80457
PRODUCTION OF PELLETS FROM MANGANESE FLOTATION CONCENTRATES 67-11 M02-80857
OPTIMUM CONDITIONS FOR SINTERING RHODOCHROSITE ORES OF THE OBROCHISHCHE DEPOSITS IN BULGARIA AND THE MINERALOGICAL COMPOSITION OF MANGANESE SINTERS 67-11 M02-80909
ELECTROCHEMISTRY AND THE EXTRACTION OF MANGANESE AND ITS COMPOUNDS 67-11 M03-80425
IMPROVING THE PRODUCTION OF MANGANESE ALLOYS 67-11 M04-81150
UTILIZATION OF SPANISH MANGANESE ORES. PT. 2. LABORATORY LEACHING STUDIES 67-12 M02-83586

MANGANESE COMPOUNDS, BINARY SYSTEMS
THE SYSTEM MNSE-MNS 67-07 M14-72830
PHASE DIAGRAM OF THE SYSTEM MNO-AL2O3 AND THE THERMODYNAMIC PROPERTIES OF MNAL2O4 67-12 M13-82407

MANGANESE COMPOUNDS, CHEMICAL ANALYSIS
USE OF THEMAL CONDUCTIVITY GAS ANALYSIS FOR THERMODYNAMIC MEASUREMENTS ON THE DISSOCIATION OF CUO, MN2O3 AND MNO2 67-08 M15-76055

MANGANESE COMPOUNDS, CRYSTAL GROWTH
PREPARATION AND SOME PROPERTIES OF SOLID SOLUTIONS CO1-XMGXTE 67-08 M14-75058

MANGANESE COMPOUNDS, CRYSTAL LATTICES
STRUCTURAL STUDIES OF THE CARBIDES --FE,MN--3C AND --FE,MN--5C2 67-01 M13-57421
DISTORTION IN THE CRYSTAL STRUCTURE OF ALPHA-MN2O3 67-06 M13-71996
AN X-RAY DIFFRACTION STUDY OF THE PHASE TRANSFORMATION TEMPERATURE OF MNO 67-06 M14-71429

MANGANESE COMPOUNDS, ELECTRICAL PROPERTIES
ELECTRICAL CONDUCTIVITY AND THERMOELECTRIC PROPERTIES OF SOLID MANGANESE OXIDES AT HIGH TEMPERATURES 67-02 M15-60727

MANGANESE COMPOUNDS, FLOTATION
FLOTATION PROPERTIES OF MANGANESE ORES USING ANION COLLECTORS 67-01 M02-57160

MANGANESE COMPOUNDS, INCLUSIONS
THE STUDY OF SULFURIZED HIGH-SPEED STEEL. PT. 3. INCLUSIONS IN SULFURIZED HIGH-SPEED STEEL 67-02 M13-59116

MANGANESE COMPOUNDS, INTERMETALLICS
ANGULAR VARIATION OF COERCIVE FORCE IN PERMANENT MAGNET MATERIALS 67-07 M15-73511

MANGANESE COMPOUNDS, MAGNETIC PROPERTIES
MAGNETIC PROPERTIES OF FE-MODIFIED MN3B4 67-02 M15-59469
NUCLEAR MAGNETIC RESONANCE IN THE PARAMAGNETIC STATES OF MNO, ALPHA MNS, AND ALPHA MNSE 67-02 M15-60533
LOCALIZED MAGNETIC MOMENTS IN MN4N 67-03 M15-65638
MAGNETIC PROPERTIES OF ZNMN2S4, ZNMN2SE4 AND ZNMN2TE4 67-03 M15-65648
ON THE BEHAVIOR OF METALS UNDER INTENSE MAGNETIC FIELD 67-04 M15-67545
PARAMAGNETIC SUSCEPTIBILITY OF MN-ZN FERRITES NEAR THE CURIE TEMPERATURE 67-05 M15-69396
MAGNETIC PROPERTIES OF THE COMPOUND MN3GE2 IN STRONG MAGNETIC FIELDS 67-06 M01-72032
EFFECT OF PRESSURE ON MAGNETIC TRANSFORMATIONS IN MANGANESE ARSENIDE 67-06 M15-71829
MAGNETIC PROPERTIES OF THE IRON-GROUP METAL PHOSPHIDES 67-07 M15-73545
NUCLEATION AND GROWTH OF REVERSE DOMAINS 67-07 M15-73556
MAGNETIC BEHAVIOR OF THE SYSTEM MN2O3-FE2O3 67-07 M15-73600
FIELD-DEPENDENT MAGNETIC SUSCEPTIBILITY OF MNO 67-07 M15-73603
EFFECT OF PRESSURE ON MAGNETIC TRANSFORMATIONS IN MANGANESE ARSENIDE 67-07 M15-73706
FERROMAGNETIC RESONANCE IN EVAPORATED THIN FILM OF MNSB 67-07 M15-73987
MAGNETORESISTANCE OF MN-ZN FERRITES IN THE CURIE TEMPERATURE DOMAIN 67-08 M15-74778
INVESTIGATION OF THE DEPENDENCE OF CERTAIN PROPERTIES OF MAGNESIUM AND MANGANESE FERRITES ON THEIR COMPOSITION 67-10 M15-79457
MAGNETIC STUDY OF THE SOLID SOLUTION, MN-P-FEP 67-12 M15-83105
STRUCTURAL AND MAGNETIC STUDY OF ARSENIDES M2AS 67-12 M15-83220

MANGANESE COMPOUNDS, MECHANICAL PROPERTIES
EFFECT OF PLASTIC STRAINING ON THE BRITTLENESS THRESHOLD OF METALLIC COMPOUNDS 67-10 M17-79226

MANGANESE COMPOUNDS, MICROSTRUCTURE
CRYSTALLOGRAPHIC STUDIES OF SOME MIXED MANGANITE SPINELS 67-11 M13-81678

MANGANESE COMPOUNDS, MOSSBAUER EFFECT
MOSSBAUER EFFECT OF DIVALENT FE57 IN NIO AND MNO 67-06 M16-71788

MANGANESE COMPOUNDS, NUCLEAR PROPERTIES
ULTRASONIC RELAXATION AT THE NEEL TEMPERATURE AND NUCLEAR ACOUSTIC RESONANCE IN MNTE 67-09 M16-76373

MANGANESE COMPOUNDS, OPTICAL PROPERTIES
OPTICAL PROPERTIES OF ALPHA-MNS IN THE FUNDAMENTAL ABSORPTION REGION 67-04 M15-66791

MANGANESE COMPOUNDS, PHASES /STATE OF MATTER/
CONTRIBUTION TO THE MN-O PHASE DIAGRAM AT HIGH TEMPERATURE 67-06 M14-72166
SIX NEW MANGANESE NITRIDES OF PEROWSKITE TYPE 67-09 M14-78015

MANGANESE COMPOUNDS, PHYSICAL PROPERTIES
MOSSBAUER STUDY OF THE FE-MN CARBIDES --FE1-XMNX--3C AND --FE1.1MN3.9--C2 67-12 M16-82005

MANGANESE COMPOUNDS, REACTIONS /CHEMICAL/
THE INTERACTION BETWEEN MANGANESE OXIDES AND SULFUR GAS IN AQUEOUS SOLUTIONS 67-01 M14-58150
STOICHIOMETRY OF MGO-MNXO SOLID SOLUTIONS IN AIR AT HIGH TEMPERATURES 67-02 M05-61088
POSSIBILITY OF USING CARBONATE ORES TO OBTAIN FERROMANGANESE 67-06 M02-70157

MANGANESE COMPOUNDS, REDUCTION /CHEMICAL/
CARBON REDUCTION KINETICS FOR MANGANESE AND SILICON FROM MNO AND SIO2 MIXTURES 67-01 M03-58289
MANGANESE RECOVERY AS CHLORIDE FROM ORES AND SLAGS 67-06 M03-70859
THE RATE AND MECHANISM OF THE REDUCTION OF FEO AND MNO FROM SILICATE AND ALUMINATE SLAGS BY CARBON-SATURATED IRON 67-12 M04-82724
MAGNETOCHEMICAL STUDY OF THE REDUCTION OF GAMMA MNO2 67-12 M14-81813

MANGANESE COMPOUNDS, REFINING
REDUCING ROAST FOR MANGANESE ORES USING INDUSTRIAL GASES 67-05 M03-68407

MANGANESE COMPOUNDS, SLAGS
FORMS OF THE BONDING OF SULFUR IN BLAST FURNACE SLAGS 67-01 M04-57918

MANGANESE COMPOUNDS, TERNARY SYSTEMS
PHASE EQUILIBRIA IN THE SYSTEM MNO-MN2O3-SIO2 67-11 M04-80117

MANGANESE COMPOUNDS, THERMAL PROPERTIES
MEASUREMENT OF THE PARTIAL HEATS OF EVAPORATION OF MANGANESE AND ITS COMPOUNDS IN THE SYSTEMS MN-FE AND MN-SI BY A MASS SPECTROMETER 67-11 M15-81211

MANGANESE COMPOUNDS, THERMODYNAMICS
THERMODYNAMIC CHARACTERISTICS OF MANGANESE SILICIDES 67-11 M15-80447

MANGANESE COMPOUNDS, TRANSPORT PROPERTIES
HALL EFFECT IN LI-DOPED MNO 67-07 M15-73298

MANGANESE ORES, BENEFICIATION
DEPHOSPHORIZATION OF MANGANESE ORES FROM THE NIKOPOL DEPOSIT 67-08 M02-74880

MANGANESE ORES, REDUCTION /CHEMICAL/
MANGANESE RECOVERY AS CHLORIDE FROM ORES AND SLAGS 67-07 M03-73094

MANGANESE SILICON STEELS
SEE SILICON MANGANESE STEELS

MANGANESE STEELS
SEE ALSO SILICON MANGANESE STEELS
PARTICULARS OF AUSTENITIC STEELS WITH HIGH MANGANESE CONTENTS. PT. 1 67-04 M01-68126

MANGANESE STEELS, CASTING
FOUNDRY TECHNIQUE USING CHROMITE SANDS 67-01 M06-58475
THE CONTINUOUS CASTING OF SMALL CROSS SECTIONS 67-02 M04-59133

MANGANESE STEELS, COATING

MANGANESE STEELS

IMPROVING THE SERVICE LIFE OF EXCAVATOR BUCKET TEETH BY DEPOSIT WELDING WITH POWDER ELECTRODES 67-02 M12-61253
LENGTHENING THE LIVES OF EXCAVATOR SCOOP TEETH 67-04 M12-66526

MANGANESE STEELS, CORROSION
CAVITATION RESISTANCE OF CHROMIUM-MANGANESE AUSTENITIC STEELS CONTAINING NITROGEN 67-08 M18-76282
CAVITATION RESISTANCE OF CHROMIUM-MANGANESE AUSTENITIC STEELS CONTAINING NITROGEN 67-10 M18-79275

MANGANESE STEELS, CRYSTAL STRUCTURE
EFFECT OF CARBON CONCENTRATION ON CRYSTAL STRUCTURE OF KAPPA-PRIME-MARTENSITE 67-09 M14-77773

MANGANESE STEELS, CRYSTALLIZATION
RECRYSTALLIZATION OF MANGANESE AND NICKEL STEELS DURING AUSFORMING 67-02 M14-61989

MANGANESE STEELS, ELECTRICAL PROPERTIES
CHANGE IN ELECTRICAL RESISTANCE OF STEEL AT QUENCHING 67-05 M15-69643

MANGANESE STEELS, HARD SURFACING
USE OF SUBLAYER FOR ELECTROSLAG DEPOSIT WELDING OF G13 STEEL ON LOW-CARBON STEEL 67-06 M11-72308

MANGANESE STEELS, HARDENABILITY
STRENGTHENING OF STRUCTURAL STEELS WITH ADDITIONS OF NITROGEN, VANADIUM AND ALUMINUM 67-02 M17-61973

MANGANESE STEELS, HARDENING
EXPLOSION STRENGTHENING OF G13L STEEL 67-02 M17-59557
A COMPLEX METHOD FOR DETERMINATION OF HARDENABILITY OF AUSTENITIC STEELS 67-05 M10-69504
FORMATION OF DEFORMATION MARTENSITE ON EXPLOSIVE SHOCK LOADING OF AUSTENITIC STEELS 67-05 M14-68248
HARDENING AUSTENTIC MANGANESE STEEL BY EXPLOSIVES. A BRIEF SUMMARY OF SEVERAL PAPERS PREVIOUSLY PUBLISHED 67-05 M17-69747

MANGANESE STEELS, HEAT TREATMENT
NEW HEAT TREATMENT OF 35GL MANGANESE STEEL CASTINGS 67-02 M10-60860
CHARACTERISTICS OF STRUCTURAL RECRYSTALLIZATION OF STEEL DURING HEATING 67-02 M14-59935
EFFECT OF HOLD-TIME AT HEAT PRIOR TO QUENCHING ON WEAR RESISTANCE 67-02 M17-61805
IMPROVING THE STRENGTH OF STRUCTURAL STEEL BY HEAT TREATMENT 67-05 M10-68331
INCREASING TENSILE STRENGTH OF STRUCTURAL STEEL BY MEANS OF HEAT TREATMENT 67-07 M10-72859
FEATURES OF THE STRUCTURAL RECRYSTALLIZATION OF STEEL ON HEATING 67-07 M14-72590
STRENGTHENING AUSTENITIC MANGANESE STEEL BY HEAT TREATMENT AND AUSROLLING 67-08 M04-74586
NEW TECHNIQUE OF HEAT TREATMENT OF CASTINGS OF 35GL STEEL 67-08 M10-76118
INFLUENCE OF THE HOLDING AT QUENCHING TEMPERATURE ON MECHANICAL PROPERTIES OF G13L STEEL 67-09 M10-77405
INFLUENCE OF SOAKING TIME PRIOR TO QUENCHING ON THE WEAR RESISTANCE OF MANGANESE STEEL G13L CASTINGS 67-09 M17-78077
HEAT TREATMENT OF 36G2S STEEL DRIVE PIPES 67-10 M10-78438
HEAT TREATMENT OF DRILL PIPES MADE FROM 36G2S STEEL 67-12 M10-83436

MANGANESE STEELS, MACHINING
TAPS FOR CUTTING THREADS IN A QUENCHED HIGH-MANGANESE STEEL 67-07 M08-74290

MANGANESE STEELS, MAGNETIC PROPERTIES
INVESTIGATING MATERIALS OF LOW MAGNETIC PERMEABILITY 67-02 M15-59625
STUDY OF THE MAGNETIC SUSCEPTIBILITY OF MARTENSITIC EPSILON-PRIME AND EPSILON PHASES IN MANGANESE STEELS 67-11 M15-80723

MANGANESE STEELS, MECHANICAL PROPERTIES
MECHANICAL PROPERTIES OF THERMALLY STRENGTHENED PIPE STEELS IN PLANE STRESS CONDITIONS 67-01 M17-57644
INTERCRYSTALLINE FRACTURE OF H-80 STEEL DUE TO REVERSIBLE TEMPER BRITTLENESS 67-01 M17-58180
ELECTROTHERMAL STRENGTHENING OF REINFORCING STEEL 67-02 M10-60788
THE CAVITATION BREAKDOWN OF STEELS MADE IN AN ELECTRIC ARC FURNACE 67-02 M17-59552
MECHANICAL PROPERTIES OF MEDIUM-MANGANESE STEEL AT LOW TEMPERATURES 67-02 M17-59651
INVESTIGATION OF THE DUCTILITY OF SOME AUSTENITIC STEELS AT HIGH LOAD RATES 67-02 M17-59943
THE MICROFRACTOGRAPHIC CHARACTERISTICS OF THE FRAGILITY OF REVERSIBLE TEMPERING OF STEELS 67-02 M17-60553
RESEARCH INTO THE EFFECT OF THE SHAPE OF TESTPIECES ON THEIR STRENGTH 67-02 M17-61061
THE FEASIBILITY OF REDUCING THE HARMFUL EFFECT OF PHOSPHORUS ON PROPERTIES OF G13L STEEL 67-02 M17-61743
PROPERTIES OF MANGANESE STEELS ALLOYED WITH CARBIDE-FORMING ELEMENTS 67-02 M17-61974
CONTRIBUTION TO THE STUDY OF THE TOUGHNESS TEST AND BRITTLE FRACTURE 67-04 M17-66041
THE EFFECT OF PRE-STRAIN AND STRAIN-AGEING ON THE CLEAVAGE FRACTURE OF A HIGH-MANGANESE STEEL 67-04 M17-66068
EVALUATION OF THE BEHAVIOR OF STEELS AND ALLOYS DURING HOT DEFORMATION WITH THE AID OF HOT TORSION SPECIMENS 67-04 M17-67202
MECHANICAL PROPERTIES OF SOME AUSTEMPERED STEEL TYPES USED FOR PLOWSHARES 67-04 M17-67822
INFLUENCE OF SMALL AMOUNTS OF NIOBIUM ON THE MECHANICAL PROPERTIES OF 25G2 STEEL 67-05 M17-68385
INFLUENCE OF MANGANESE ON HYDROGEN EMBRITTLEMENT OF STEEL 67-05 M17-69008
INVESTIGATION OF THE STRUCTURE OF SURFACE LAYERS OF G13 STEEL IN DIFFERENT FRICTION CONDITIONS 67-05 M17-69303
INFLUENCE OF ARSENIC ON TEMPER BRITTLENESS OF LOW-CARBON MANGANESE STEEL 67-06 M17-70075
EFFECTS OF ADDING VANADIUM, NITROGEN AND ALUMINUM TO QUENCHED AND TEMPERED CHROMIUM AND MANGANESE STRUCTURAL STEELS ON THEIR PROPERTIES 67-06 M17-70119
INVESTIGATION OF THE IMPACT STRENGTH OF AUSTENITIC 12 PER CENT MANGANESE STEEL 67-06 M17-71116
QUALITY OF 1020 MM DIAMETER SPIRAL SEAM TUBES OF 15G2S STEEL 67-06 M17-71260
INFLUENCE OF ROLLING TEXTURE ON TOUGHNESS OF STEEL 67-06 M17-71262
DUCTILITY OF CERTAIN AUSTENITIC STEELS UNDER HIGH-VELOCITY LOADING 67-07 M17-72598
INFLUENCE OF RARE-EARTH METALS ON THE PROPERTIES OF LOW-ALLOY STEEL MELTED IN AN ACID ELECTRIC FURNACE 67-08 M17-74541
MECHANICAL PROPERTIES OF G13L STEEL IN WORK-HARDENED STATE 67-08 M17-74587
EFFECT OF PLASTIC DEFORMATION AND RESIDUAL STRESS ON THE FRACTURE RESISTANCE OF STEELS AT LOW TEMPERATURES 67-08 M17-75401
SOME MECHANISMS OF BRITTLE FRACTURE 67-08 M17-75402
INVESTIGATING QUALITY OF 1020 MM DIAMETER HELICALLY WELDED TUBES MADE FROM 15G2S STEEL 67-08 M17-75729
EFFECTS OF DIRECTION OF TEXTURE IN ROLLED STOCK ON RESISTANCE OF STEEL TO INITIATION AND DEVELOPMENT OF CRACKS 67-08 M17-75731
THE RELATIONSHIP BETWEEN THE SUSCEPTIBILITY OF MANGANESE STEELS TO CRACKING, THEIR STRUCTURE, AND THE HEAT TREATMENT CONDITIONS USED 67-09 M17-76818
FRACTURE OF WELDS IN PARTS MADE OF STEEL WITH A HIGH YIELD STRENGTH 67-09 M17-76899
THE IMPACT STRENGTH PROBLEMS OF AUSTENITIC 12 PER CENT MN CAST STEEL 67-09 M17-77397
AUSTENITIC MANGANESE STEEL WITH MANGANESE CONCENTRATIONS BELOW THOSE IN HADFIELD STEEL 67-09 M17-78038
EFFECTS OF CARBIDE-FORMING ELEMENTS ON THE KINETICS OF THE ISOTHERMAL TRANSFORMATION OF AUSTENITE AND THE MECHANICAL PROPERTIES OF MANGANESE-MOLYBDENUM STEEL 67-10 M14-78936
EFFECTS OF HEAT TREATMENT ON THE COLD BRITTLENESS OF REINFORCEMENT STEEL 67-10 M17-78376
HIGH-MANGANESE STEEL HARDENED BY EXPLOSION 67-10 M17-78377
EFFECT OF ARSENIC ON THE SUSCEPTIBILITY OF LOW-CARBON MANGANESE STEEL TO REVERSIBLE TEMPER BRITTLENESS 67-10 M17-78821
TOUGHENING OF IMPROVED STRUCTURAL STEELS WITH SMALL AMOUNTS OF NITROGEN, VANADIUM, AND ALUMINUM 67-10 M17-78830
PROPERTIES OF AUSTENITIC MANGANESE STEELS ALLOYED WITH CARBIDE-FORMING ELEMENTS 67-10 M17-78831
METHODS OF IMPROVING PLASTIC PROPERTIES AND IMPACT

STRENGTH OF 196 STEEL 67-10 M17-78927
METALLURGICAL DEVELOPMENTS IN THE MANUFACTURE OF EARTHMOVING EQUIPMENT 67-10 M17-79304
THE BZZS STEEL --CLASS A-3--, AND ITS SPECIAL USES 67-10 M17-79858
CHARACTERISTICS OF FATIGUE DIAGRAMS IN CONDITIONS OF FRETTING CORROSION 67-11 M17-80584
RELATION BETWEEN COLD BRITTLENESS AND THE BEHAVIOR OF CARBON IN IRON IN THE PRESENCE OF MANGANESE 67-11 M17-81417
THE EFFECT OF PLASTIC DEFORMATION AND RESIDUAL STRESSES ON THE RESISTANCE OF STEELS TO FRACTURE AT LOW TEMPERATURES 67-12 M17-82022
SOME LAWS FOR BRITTLE FRACTURE 67-12 M17-82023
QUENCHED AND TEMPERED GRADE 18G2A STEEL FOR WELDED STRUCTURES 67-12 M17-82496

MANGANESE STEELS, MELTING
INCREASING THE OUTPUT OF ARC FURNACES USED FOR MELTING G13L STEEL 67-04 M04-66703
A METHOD OF MELTING STEEL 67-04 M04-66704
ATTEMPTED THEORETICAL APPROACH TO HIGH MANGANESE STEELMAKING IN A BASIC ARC FURNACE 67-10 M04-79868
EFFECTS OF RARE EARTH METALS ON THE QUALITY OF STRUCTURAL STEEL 67-10 M17-78375
LOW-ALLOY MANGANESE STEEL..MELTING TECHNOLOGY AND IMPROVED PROPERTIES 67-11 M04-81431
REDUCTION OF MAGNESIA FROM THE LINING IN THE PRODUCTION OF STEEL TREATED WITH ALUMINIUM 67-12 M04-82109

MANGANESE STEELS, METAL WORKING
DRAWN STEEL WIRE FOR THE MANUFACTURE OF SPRING RINGS 67-12 M07-82444

MANGANESE STEELS, METALLOGRAPHY
SURFACE PHENOMENA OBSERVED WHILE STUDYING THE METALLOGRAPHIC STRUCTURE OF ALLOY STEELS AT HIGH TEMPERATURES 67-04 M14-67878
PECULARITIES IN THE STRUCTURE OF COLD WORKED AND ANNEALED MANGANESE STEEL 67-07 M13-73124

MANGANESE STEELS, MICROSTRUCTURE
PROBLEMS IN THE DIRECT DETERMINATION OF GRAIN SIZE AT ELEVATED TEMPERATURES 67-06 M13-72160
INVESTIGATION OF THE STRUCTURE OF THE FRACTURE AND THE TEMPERATURE THRESHOLD OF COLD BRITTLENESS IN FERRITE-PEARLITE CLASS STEELS BY THE FRACTOGRAPHY METHOD 67-07 M17-72868
RECRYSTALLIZATION OF MANGANESE AND NICKEL STEELS DURING HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT 67-10 M14-78846
FRACTOGRAPHIC INVESTIGATION OF THE STRUCTURE AND TEMPERATURE THRESHOLD OF COLD BRITTLENESS IN FERRITE-PEARLITE STEELS 67-12 M17-82176

MANGANESE STEELS, PHASE TRANSFORMATIONS
EFFECT OF CARBON ON THE CRYSTAL LATTICE PARAMETERS OF EPSILON MARTENSITE IN MANGANESE STEELS 67-01 M14-57684
THE STRUCTURAL STABILITY OF AUSTENITIC MANGANESE STEELS 67-02 M14-58894
DIMENSIONAL CHANGES IN THE ALPHA-GAMMA TRANSFORMATION OF IRON 67-04 M15-67413
EFFECT OF REPEATED HEATING AND COOLING ON CHANGE IN THE PHASE COMPOSITION OF MANGANESE STEEL 67-05 M14-69649
INVESTIGATION OF THE ONSET OF THE TRANSFORMATION FROM FACE CENTERED CUBIC AUSTENITE TO HEXAGONAL EPSILON MARTENSITE 67-07 M14-73228
CAUSES OF THE EFFECT OF PULSED MAGNETIC FIELD ON MARTENSITIC TRANSFORMATIONS IN STEELS AND ALLOYS 67-08 M14-74640
THE CASE OF THE HIGH STRENGTH OF HADFIELD STEELS 67-09 M14-76694
ISOTHERMAL MARTENSITE FORMATION IN IRON-MANGANESE-CARBON ALLOYS 67-12 M14-83398
MARTENSITE TRANSFORMATIONS IN LOW-CARBON MANGANESE STEELS 67-12 M14-83399

MANGANESE STEELS, PHYSICAL PROPERTIES
DENSITY OF FE-C-SI AND FE-C-MN ALLOYS IN SOLID AND LIQUID STATE 67-01 M15-57466
DENSITY OF FE-C-SI AND FE-C-MN ALLOYS IN THE SOLID AND LIQUID STATES 67-06 M15-70754

MANGANESE STEELS, REACTIONS /CHEMICAL/
ON THE THEORY OF DEOXIDIZING STEEL WITH MANGANESE 67-04 M04-66874
STRENGTHENING OF HADFIELD STEEL 67-04 M13-67143

MANGANESE STEELS, REFINING
TOP-BLOWING WITH OXYGEN FOR STEELMAKING IN CONVERTERS USING HIGH-PHOSPHORUS IRON 67-04 M04-66706
BEHAVIOR OF PHOSPHORUS DURING MELTING OF NATURALLY-ALLOYED STEEL 67-06 M04-71243
PRODUCING A MANGANESE-ALUMINUM ELECTRIC STEEL UNDER A LIME-ALUMINA SLAG 67-07 M04-73780
BEHAVIOUR OF PHOSPHORUS WHEN MELTING NATURALLY ALLOYED STEEL 67-08 M04-75712
MELTING MANGANESE--ALUMINIUM STEEL IN AN ELECTRIC FURNACE UNDER A LIME-ALUMINA SLAG 67-09 M04-76543

MANGANESE STEELS, ROLLING
STUDY OF SHEET METAL MADE BY LONGITUDINAL AND CROSS ROLLING FOR THE PRODUCTION OF LARGE-DIAMETER ELECTROWELDED PIPE 67-02 M07-61946
EFFECT OF ROLLING PLAN ON QUALITY OF HEAVY-GAGE STEEL AND MILL PRODUCTIVITY 67-02 M07-61947
EFFECT OF ROLLING SCHEDULE ON QUALITY OF THICK PLATE STEEL AND MILL OUTPUT 67-04 M07-67778
STUDY OF METAL IN LONGITUDINAL AND TRANSVERSE ROLLING IN ELECTRICALLY-WELDED LARGE DIAMETER PIPES 67-04 M07-67779
STRENGTHENING OF HIGH-MANGANESE STEEL BY COMBINED THERMOMECHANICAL TREATMENT 67-06 M08-70117
PRODUCTION OF A LIGHTENED NO. 60 H-BEAM 67-07 M07-73784
MANUFACTURING LIGHTENED I-BEAMS 67-09 M07-76547

MANGANESE STEELS, SURFACE PROPERTIES
HYDROEROSION RESISTANCE OF AUSTENITIC CR-MN STEELS ALLOYED WITH NITROGEN AND SOME OTHER ELEMENTS 67-05 M17-69017

MANGANESE STEELS, THERMAL CYCLING
STRUCTURAL VARIATIONS ON THE GAMMA-EPSILON-GAMMA TRANSFORMATIONS IN THE IRON-MANGANESE ALLOY G19 67-05 M14-68252

MANGANESE STEELS, WEAR
INFLUENCE OF PREQUENCH TEMPERING ON WEAR RESISTANCE OF G13L CAST MANGANESE STEEL 67-02 M17-61975
EFFECT OF TEMPERING BEFORE QUENCHING ON THE WEAR RESISTANCE OF G13L STEEL 67-10 M17-78832

MANGANESE STEELS, WELDING
ON THE WELDING OF STEELS WITH LIMITED WELDABILITY. EXAMPLES FOR MATERIALS PROBLEMS 67-01 M11-58114
AN AGGREGATE MACHINE FOR SPOT WELDING HATCH DOORS OF TRUCK SEMITRAILERS 67-01 M11-58280
STRUCTURE AND PROPERTIES OF HIGH-MANGANESE METAL BUILT-UP BY A POWDER WELDING WIRE 67-01 M17-57391
THE WELDING OF 35GS REINFORCING STEEL DURING THE CONSTRUCTION OF PITHEAD GEAR IN WINTER 67-02 M11-59643
USE OF LOW ALLOY STEELS IN THE MANUFACTURE OF TOOTHED WHEELS BY MECHANICAL WELDING 67-02 M11-60610
SOME NOTES ON THE MANUAL ARC WELDING OF LOW-TEMPERATURE HIGH-STRENGTH STEELS 67-02 M17-60106
TEE TWIN SPOT WELDING OF HOT ROLLED METAL COATED WITH SCALE 67-04 M11-67172
INDUCTION BUILDUP OF DISKS OF A BEET-HARVESTING COMBINE 67-04 M11-67815
INDUCTION HARDFACING OF DISCS OF BEET COMBINE HARVESTERS 67-06 M11-70315
THE ADDITION OF FERROALLOYS TO THE ELECTROSLAG BUILDUP WELDING OF TURASS ANGLES 67-06 M11-70461
WELDED JOINTS OF LOW-TEMPERATURE STEELS IN THE CONSTRUCTION OF PRESSURE VESSELS 67-06 M11-70462
DOUBLE ARC WELDING A SEMITRAILER BEAM 67-08 M11-75410
ELECTROSLAG WELDING OF CRANE TRACK RAILS 67-09 M11-77612
HARD SURFACING OF A DREDGE SCOOP 67-09 M11-77618
WELDABILITY OF QUENCHED AND TEMPERED 10G2S1D MN-SI STEEL 67-09 M11-78115
STEEL JOINTS PRODUCED BY PRESSURE WELDING 67-09 M11-78118
THE APPLICATION OF AN INTERLAYER BEFORE G13 STEEL IS DEPOSITED 67-11 M11-81580
THE TWIN ARC WELDING OF OPEN TOP WAGON SOLE BARS 67-12 M11-82031

MANOMETERS
SEE MEASURING INSTRUMENTS
PRESSURE MEASUREMENT

MANUAL METAL ARC WELDING
SEE SHIELDED METAL ARC WELDING

MANUFACTURED GAS

MANUFACTURED GAS
SEE ALSO COKE OVEN GAS
FAILURES OF HEADER SUPPORT BRACKET ASSEMBLIES 67-06 M11-70538
HIGH TEMPERATURE ALLOYS FOR USE IN REFORMER FURNACES 67-06 M17-70528
DEVELOPMENT OF IMPROVED WROUGHT ALLOYS FOR REFORMER TUBES 67-06 M17-70535
PREVENTION OF VANADIUM PENTOXIDE ATTACK OF REFORMER TUBES BY MAGNESIUM COMPOUNDS 67-06 M18-70543
CORROSION OF MILD STEEL DUE TO IMPINGEMENT IN THE MAKE-GAS STREAM 67-06 M18-70544
INTRODUCTION TO THE USE OF CAST ALLOY MATERIAL FOR HYDROCARBON PROCESSING IN THE U. S. A. 67-06 M20-70532
MARAGING
MICROSTRUCTURE AND MECHANICAL PROPERTIES OF IRON-NICKEL BASE ALLOYS CONTAINING 9 AT. PER CENT COPPER AFTER VARIOUS HEAT TREATMENTS 67-09 M14-76789
HOW TO NITRIDE MARAGING STEELS 67-10 M10-78760
NEW STRENGTHS FOR OLD METALS 67-12 M01-83002
MARAGING STEELS
HIGH-STRENGTH STEELS 67-03 M01-65002
HIGH STRENGTH STEELS GET TOUGHER 67-03 M17-65212
UDIMAR B-250 --HIGH STRENGTH MARAGING STEEL-- 67-04 M01-68067
THE MARVEL OF MARAGING SOME ASPECTS OF 18NI-CO-MO STEEL 67-04 M14-66192
HIGH-STRENGTH STEELS 67-06 M01-71183
REPUBLIC RSM-200 --MARAGING HIGH STRENGTH STEEL-- 67-07 M01-73156
MARAGING STEELS, AEROSPACE
EMERGING AEROSPACE MATERIALS AND FABRICATION TECHNIQUES 67-06 M20-72200
MARAGING STEELS, BOLTS 67-11 M18-81194
PREVENTING STRESS-CORROSION CRACKING IN THREADED
PREVENTING STRESS-CORROSION CRACKING IN THREADED FASTENERS
FASTENERS 67-11 M18-81194
MARAGING STEELS, CHEMICAL ANALYSIS
A STUDY OF PRECIPITATION IN STAINLESS AND MARAGING STEELS USING THE MOSSBAUER EFFECT 67-01 M14-58463
MARAGING STEELS, CORROSION
STRESS-CORROSION SUSCEPTIBILITY OF HIGH-STRENGTH STEEL, IN RELATION TO FRACTURE TOUGHNESS 67-04 M18-66236
RELATIONSHIPS BETWEEN ELECTROCHEMICAL MEASUREMENTS AND STRESS CORROSION CRACKING OF MARAGING STEEL 67-05 M18-69473
CORROSION-FATIGUE CRACK PROPAGATION IN MODERN HIGH-PERFORMANCE STRUCTURAL STEELS 67-08 M18-75974
MARAGING STEELS, CUTTING
TAPPING AN IMPOSSIBLE STEEL 67-03 M08-65942
MARAGING STEELS, DIE CASTING DIES
INNOVATIONS IN DIE CASTING DIE STEELS 67-03 M20-65402
MARAGING STEELS, ELECTRICAL PROPERTIES
HIGH-TEMPERATURE ELECTRICAL MATERIALS 67-02 M20-60591
MARAGING STEELS, HARDENING
THE KINETICS OF AGING REACTIONS IN 18 PER CENT NI MARAGING STEELS 67-02 M14-59425
MARAGING STEELS, HEAT TREATMENT
HIGH STRENGTH STEELS. PT. 3 67-03 M10-65835
HEAT TREATMENT AND MECHANICAL PROPERTIES OF 9 PER CENT NI-4 PER CENT CO STEELS 67-04 M01-68146
HEAT TREATMENT OF INVESTMENT-CAST STAINLESS STEELS AND HIGH TEMPERATURE ALLOYS 67-05 M10-69889
HEAT TREATMENT OF CERTAIN SPECIAL STEELS 67-06 M10-71904
MARAGING STEELS, MACHINING
MACHINING EVALUATION OF HIGH-STRENGTH MARAGING STEEL 67-01 M08-58684
MACHINING CHARACTERISTICS OF 18 PER CENT NICKEL MARAGING STEELS 67-01 M08-58685
TAPPING AN IMPOSSIBLE STEEL 67-06 M08-71890
MACHINING DATA FOR 18 PER CENT NICKEL MARAGING STEEL 67-09 M08-77495
MACHINING HIGH STRENGTH STEELS AND THERMAL RESISTANT ALLOYS 67-10 M08-79516
ANALYSIS OF CHIP FORMATION CHARACTERISTICS OF 18 PER CENT NICKEL MARAGING STEEL 67-12 M08-82775
MARAGING STEELS, MECHANICAL PROPERTIES
METALLURGICAL FACTORS AFFECTING THE FRACTURE TOUGHNESS OF 18 NI MARAGING WELDS 67-01 M17-58606
THE 9NI-4CO STEELS 67-02 M01-60930
STUDY OF 9 PER CENT NICKEL LOW-CARBON STEELS WITH SPECIAL REFERENCE TO THE RELATION BETWEEN THE PRECIPITATION AUSTENITE AND THE TOUGHNESS OF 0.1 PER CENT C 9 PER CENT NICKEL STEEL 67-02 M17-59115
ULTRAHIGH-STRENGTH STEELS 67-02 M17-60621
INTERNAL FRICTION IN 18 PER CENT NI MARAGING STEELS 67-03 M15-65085
EFFECT OF SIDE GROOVING ON MEASUREMENTS OF PLANE-STRAIN FRACTURE TOUGHNESS 67-03 M17-65314
STRUCTURE AND HIGH-STRENGTH METALS 67-03 M17-65329
LOW CYCLE FATIGUE CRACK PROPAGATION CHARACTERISTICS OF HIGH STRENGTH STEELS 67-04 M17-66238
AN INVESTIGATION OF THE FATIGUE BEHAVIOR OF 18 PER CENT NICKEL MARAGING STEEL 67-04 M17-66928
AN EVALUATION OF MECHANICAL PROPERTIES OF CAST MARAGING STEELS 67-04 M17-67329
MECHANICAL PROPERTIES OF METALS 67-05 M01-68474
MARAGING STEEL AND LOW-ALLOY STEELS OF VERY HIGH STRENGTH 67-05 M17-68781
SOLIDIFICATION-DEPENDENT ASPECTS OF FRACTURE IN 18 PER CENT NI MARAGING STEEL WELDS 67-05 M17-69713
THE INFLUENCE OF AUSFORMING ON THE STRESS CORROSION SUSCEPTIBILITY OF SOME HIGH-STRENGTH STEELS 67-05 M18-69599
ALMAR 362 67-06 M01-71160
FATIGUE OF THICK CYLINDERS--FURTHER PRACTICAL INFORMATION 67-07 M17-74087
AGING OF MARTENSITE IN FE-NI-MN STEELS 67-08 M14-76024
AN INVESTIGATION OF THE MECHANICAL PROPERTIES AND MICROSTRUCTURES OF 18NI --250-- MARAGING STEEL WELDMENTS 67-08 M17-75967
CRYOGENIC PROPERTIES OF 18NI-9CO-5MO AND 18NI-7CO-5MO MARAGING STEEL SHEET 67-09 M17-77566
NEW CONCEPTS IN ECONOMY 67-10 M01-79753
CRYOGENIC PROPERTIES OF 18NI-9CO-5MO AND 18NI-7CO- 67-10 M17-78491
A MARAGING STAINLESS FOR 800 TO 1100 F. SERVICE 67-10 M17-78764
FLOW STRENGTH AND FRACTURE TOUGHNESS OF 9 NI 4 CO STEEL AS AFFECTED BY STRAIN TEMPERING AND AUSFORMING 67-10 M17-79687
17 PER CENT NICKEL-CAST MARAGING STEEL ACCEPTED BY INDUSTRY 67-11 M01-81534
A FRACTOGRAPHIC ANALYSIS OF THE RELATIONSHIPS BETWEEN FRACTURE TOUGHNESS AND SURFACE TOPOGRAPHY IN ULTRAHIGH-STRENGTH STEELS 67-11 M17-80579
FRACTURE BY MICROSCOPIC PLASTIC DEFORMATION PROCESSES 67-11 M17-81100
HIGH-STRENGTH STEELS 67-12 M01-81758
MARAGING STEEL WITH 18 PER CENT NICKEL 67-12 M17-82466
THE INFLUENCE OF SMALL COLD DEFORMATION PRECEDING AGING IN 15 AND 18 PER CENT NICKEL MARAGING STEEL 67-12 M17-82578
SOME EFFECTS OF NEUTRON IRRADIATION ON MARAGING STEEL 67-12 M17-82768
THE EFFECT OF HOT ROLLING VARIABLES ON THE FRACTURE TOUGHNESS OF 18NI MARAGING STEEL 67-12 M17-83059
THE STRENGTH OF FERRITE AND OF MARTENSITE AS FUNCTIONS OF COMPOSITION, TEMPERATURE AND STRAIN RATE 67-12 M17-83063
HIGH STRENGTH STEELS IN DEEP SUBMERSIBLES 67-12 M20-82987
VERY HIGH-STRENGTH STEELS IN THE FRENCH AEROSPACE INDUSTRY 67-12 M20-83374
MARAGING STEELS, MELTING
CONSUMABLE REMELTING WITH THE HOPKINS PROCESS 67-06 M04-70128
MARAGING STEELS, METAL WORKING
GAS-DETONATION FORMING 67-05 M07-68982
DEVELOPMENT OF A DYNAMOMETER FOR FLOW-TURNING OPERATIONS 67-06 M08-71803
THE ASEA-SAAB FLUID-FORMING METHOD AND EQUIPMENT 67-06 M08-72050
HIGH ENERGY RATE FORMING COMES OF AGE 67-10 M08-78766
REVIEW OF ALLOYS AND FABRICATING METHODS USED FOR TACTICAL MISSILE MOTOR CASES 67-11 M20-80492
FASTENERS MADE STRONGER VIA VACUUM PROCESSING 67-12 M08-82400
MARAGING STEELS, MICROSTRUCTURE

IDENTIFICATION OF STRENGTHENING PRECIPITATES IN 18NI --250-- ALUMINUM, VANADIUM AND TITANIUM MARAGING STEELS 67-12 M13-83068

MARAGING STEELS, PHASE TRANSFORMATIONS

STUDY OF 9 PER CENT NICKEL LOW-CARBON STEELS--THE PRECIPITATION OF AUSTENITE AND MICROSTRUCTURE 67-02 M14-59114

INFLUENCE OF HEATING RATE ON TRANSFORMATIONS IN AN 18 PER CENT NICKEL MARAGING STEEL 67-05 M14-68435

INVESTIGATION OF MARTENSITIC TRANSFORMATION IN N18K8M3T ALLOY 67-05 M14-69669

A DILATOMETRIC STUDY OF STRUCTURAL EVOLUTION OF MARAGING STEEL CONTAINING 18 PER CENT NI DURING TEMPERING 67-10 M14-79894

MARAGING STEELS, THERMODYNAMICS

A MAGNETIC DEVICE FOR DETECTING PHASE CHANGES AT ELEVATED TEMPERATURES 67-06 M14-71011

MARAGING STEELS, VACUUM METALLURGY

METALLURGICAL AND OPERATIONAL CONSIDERATIONS OF MELTING IN THE THERM-I-VAC FURNACE 67-02 M06-60225

MARAGING STEELS, WELDING

WELDING OF STEEL FOR LOW-TEMPERATURE SERVICE. PT. 3. YND-37 STEEL, YND-58 STEEL AND 9 PER CENT NI STEEL 67-02 M11-60170

WHERE DO WE STAND IN WELDING HIGH STRENGTH STEELS 67-02 M11-61098

NARROW WELDED JOINTS 67-02 M11-61539

WELDING 18 PER CENT NICKEL MARAGING STEEL TO A-201 AND A-242 STEELS 67-04 M11-67627

NEW LIGHT METAL FABRICATING TECHNIQUES DEVELOPED WITH NUCLEAR ENGINES 67-06 M20-71586

EXAMINATION OF ELECTRON BEAM WELDS IN 18 PER CENT NI/CO/MO MARAGING STEEL SHEET 67-08 M11-75751

A C WELDING OF 9 PER CENT NICKEL STEEL CRYOGENIC VESSELS 67-08 M11-76066

WELDING THE MARAGING STEELS 67-09 M11-76638

EFFECTS OF CONSTITUTIONAL LIQUATION IN 18-NI MARAGING STEEL WELDMENTS 67-12 M11-82822

HARD SURFACING TECHNIQUES IN MECHANICAL CONSTRUCTION 67-12 M11-83505

MARFORMING

THERMOMECHANICAL PROCESSING OF TYPE EI612 HEAT RESISTANT STEEL 67-03 M17-65972

STRENGTHENING OF CR-MN-MO STEEL BY COLD PLASTIC DEFORMATION 67-05 M17-68380

WORK HARDENING STEEL IN THE MARTENSITIC TRANSFORMATION RANGE 67-09 M17-77786

MARINE ENGINES

INTERNAL COMBUSTION ENGINES 67-08 M20-74827

PRODUCING INBOARD OUTBOARD DRIVE UNITS AT JOHNSON MOTORS 67-09 M06-76401

ZINC DIE CASTING IN THE MARINE FIELD 67-09 M06-76403

MARINE ENGINES, CASTINGS

INFLUENCE OF SUPERHEATING THE MOLTEN IRON ON THE WEAR RESISTANCE OF CASTINGS 67-04 M17-68097

MARINE ENGINES, MATERIALS

BERYLCO 717C --HEAT TREATABLE COPPER ALLOY-- 67-09 M01-76529

PROBLEMS ASSOCIATED WITH THE USE OF COPPER ALLOY CASTINGS IN MARINE SERVICE 67-10 M06-79313

MARQUENCHING

SEE MARTEMPERING

MARSTRAINING

SOME OBSERVATIONS ON THE MARSTRAINING OF A 12 PER CENT CHROMIUM STEEL 67-06 M10-70879

HIGH-STRENGTH STEELS. PT. 1 67-10 M01-78853

MARTEMPERING

PRECISION COMPONENTS DEMAND SPECIALIZED HEAT TREATMENT 67-11 M10-81133

ISOTHERMAL TREATMENTS 67-12 M10-81939

NEW DEVELOPEMENTS IN SALT BATH HEAT TREATING 67-12 M10-81943

MARTENSITE

EFFECT OF NASCENT PHASE ON THE KINETICS OF THE MARTENSITE TRANSFORMATION 67-01 M14-57101

NATURE OF CERTAIN FEATURES IN THE MARTENSITE TRANSFORMATION 67-01 M14-57103

ON THE CAUSE OF THE LOWERING OF THE MARTENSITIC POINT AFTER PARTIAL TRANSFORMATION OF AUSTENITE IN THE INTERMEDIATE REGION 67-01 M14-57189

EFFECT OF CARBON ON THE CRYSTAL LATTICE PARAMETERS OF EPSILON MARTENSITE IN MANGANESE STEELS 67-01 M14-57684

CHANGE IN STRUCTURE AND HARDNESS OF 45 STEEL IN RELATION TO COOLING RATE 67-02 M10-61949

DETECTION OF PRECIPITATION OF IRON CARBON MARTENSITES WHICH CANNOT BE OBSERVED WITH THE ELECTRON MICROSCOPE 67-02 M13-59916

THE MUTUAL EFFECTS OF TRANSFORMATION REACTIONS IN HEAT TREATMENTS CARRIED OUT IN A FLUCTUATING TEMPERATURE FIELD 67-02 M14-59915

MARTENSITE IN TERNARY CU-ZN-BASED BETA-PHASE ALLOYS 67-03 M14-65079

MARTENSITIC TRANSFORMATION IN 1KH15N9S3B STEEL DURING DEFORMATION 67-04 M07-67978

CHANGE IN STRUCTURE AND HARDNESS OF 45 STEEL DEPENDING ON COOLING RATE 67-04 M10-67783

THE PHENOMENOLOGICAL THEORY OF COMPOSITE MARTENSITE. PT. 1. THE --HHL-- HABIT IN STEELS 67-04 M13-66057

DISORIENTATIONS IN AN IRON-NICKEL ALLOY AFTER THE DIRECT AND REVERSE MARTENSITIC TRANSFORMATIONS 67-04 M13-67639

METALLOGRAPHIC ATLAS OF IRON, STEELS AND CAST IRONS. V. 2. STRUCTURE OF STEELS 67-04 M13-67734

THE MARTENSITE TRANSFORMATION IN SMALL --0.1-0.3 MM-- IRON-NICKEL SINGLE CRYSTALS 67-04 M14-66054

HYSTERESIS IN MARTENSITIC TRANSFORMATIONS 67-04 M14-66532

SURFACE MARTENSITE ON PLASTICALLY DEFORMED AUSTENITE 67-04 M14-67755

STRENGTHENING OF AUSTENITE DURING DIRECT AND REVERSE MARTENSITIC TRANSFORMATION 67-04 M14-67938

STRUCTURE AND PROPERTIES OF KH16N6 --EP288-- STEEL 67-04 M17-67933

STRUCTURAL INHERITANCE IN CASE HARDENED ALLOYED STEELS 67-05 M13-68374

STRUCTURAL VARIATIONS ON THE GAMMA-EPSILON-GAMMA TRANSFORMATIONS IN THE IRON-MANGANESE ALLOY G19 67-05 M14-68252

INHERITANCE OF DEFECTS BY MARTENSITE IN THE PROCESS OF AUSFORMING 67-06 M14-71339

EFFECT OF MARTENSITE ON THE KINETICS OF BAINITE FORMATION IN LOW ALLOY STEELS 67-06 M14-72151

INVESTIGATION OF THE ONSET OF THE TRANSFORMATION FROM FACE CENTERED CUBIC AUSTENITE TO HEXAGONAL EPSILON MARTENSITE 67-07 M14-73228

CRYSTALLOGRAPHIC TRANSFORMATIONS 67-07 M14-73682

THE BAINITE TRANSFORMATION OF BETA-BRASS 67-07 M14-73929

STACKING FAULT PROBABILITIES IN COPPER-ALUMINUM MARTENSITE TRANSFORMED IN THIN FOILS 67-07 M14-73984

MARTENSITE IN IRON-NITROGEN ALLOYS 67-07 M14-74173

DISLOCATION STRUCTURE OF DEFORMED AUSTENITE AND ITS INHERITANCE BY MARTENSITE 67-08 M13-76023

THE PROBLEM OF STABILIZING AUSTENITE 67-08 M14-74343

CAUSES OF THE EFFECT OF PULSED MAGNETIC FIELD ON MARTENSITIC TRANSFORMATIONS IN STEELS AND ALLOYS 67-08 M14-74640

OBSERVATION OF A MARTENSITIC TRANSFORMATION IN THE COMPOUND NIAL 67-08 M14-75581

STRAIN AGING OF MARTENSITE TEMPERED BELOW 400 F 67-08 M14-75973

THE MARTENSITIC TRANSFORMATION IN TI-NI ALLOYS OF NEAR-EQUIATOMIC COMPOSITION 67-08 M14-76217

STRUCTURE AND HARDNESS OF AUSFORMED OR DEFORMED FERROUS MARTENSITES 67-08 M17-75151

TRANSMISSION ELECTRON MICROSCOPE STUDY OF THE MARTENSITE OF TITANIUM-3 WT PER CENT IRON ALLOY 67-09 M13-78242

METALLOGRAPHIC EVIDENCE FOR A MARTENSITIC TRANSFORMATION IN U3SI 67-09 M14-77479

SPONTANEOUS MARTENSITE REACTION IN TI-CR ALLOYS 67-09 M14-77737

THE MARTENSITIC TRANSFORMATION OF IRON PRECIPITATES IN A COPPER MATRIX 67-09 M14-77925

MARTENSITE INCLUSIONS IN STEEL WIRES DEVELOPED DURING DRAWING OR THROUGH WRONG USE OF ROPES 67-10 M13-78321

SIMILARITIES BETWEENTHE MARTENSITIC AND COLD WORKED STRUCTURES OF STEELS 67-10 M13-79947

MODIFICATION OF THE MARTENSITIC HARDENING PROCESS IN STEEL 67-10 M14-78604

MARTENSITE

STUDY OF THE CHARACTERISTICS OF MARTENSITIC TRANSFORMATION DURING AUSROLLING OF NI STEELS 67-10 M14-79224
MARTENSITE INCLUSIONS IN STEEL WIRES DEVELOPED DURING DRAWING OR THROUGH THE WRONG USE OF ROPES. PT. 2 67-10 M14-79425
MARTENSITIC TRANSFORMATION AT VERY LOW-TEMPERATURES IN 18-10 LOW-CARBON AUSTENITIC STEELS DURING WORK HARDENING AND CREEP 67-10 M14-79936
CRYSTAL STRUCTURE OF QUENCHED STEEL 67-10 M14-80014
AN X-RAY STUDY ON THE STRUCTURE OF THE TERNARY AU-CU-ZN MARTENSITE 67-11 M13-80810
DIRECT OBSERVATION OF THE STACKING ORDER IN BETA1 PRIME CU-AL MARTENSITE 67-11 M13-81270
THE CRYSTALLOGRAPHY OF THE PRESSURE INDUCED PHASE TRANSFORMATIONS IN IRON ALLOYS 67-11 M13-81594
ON THE MARTENSITIC TRANSFORMATION IN TINI 67-11 M14-80104
STRESSES DURING MARTENSITIC TRANSFORMATION OF AUSTENITIC STAINLESS STEELS 3KH13 AND 4KH13 67-11 M14-80961
PHASE TRANSFORMATIONS AND CHANGE IN STRUCTURE DURING HEATING OF CR-MN-MO AUSTENITIC-MARTENSITIC STEEL 67-11 M14-81158
CYCLIC MARTENSITIC TRANSFORMATION AND THE STRUCTURE OF A COMMERCIAL 18 CR-8 NI STAINLESS STEEL 67-11 M14-81334
MARTENSITE-TO-FCC REVERSE TRANSFORMATION IN AN FE-NI ALLOY 67-11 M14-81341
EVOLUTION DURING TEMPERING AT A SLOWLY RISING TEMPERATURE OF THE MATRIX OF A 2 PER CENT-C IRON ALLOY, PREVIOUSLY SUBJECTED TO A MARTENSITIC QUENCH 67-11 M14-81560
MAGNETIC STUDY OF MARTENSITIC TRANSFORMATION OF STAINLESS STEEL 67-11 M15-81472
THE PART PLAYED BY PRECIPITATION HARDENING IN THE HARDNESS OF MARTENSITE PRODUCED BY QUENCHING AUSTENITE 67-12 M10-83462
SUBSTRUCTURE OF MARTENSITE IN CARBON STEELS 67-12 M13-81835
BLOCK STRUCTURE OF MARTENSITE CRYSTAL FRAGMENTS IN STRUCTURAL STEELS 67-12 M13-81836
THE CRYSTALLOGRAPHY OF THE REVERSE MARTENSITIC TRANSFORMATION IN AN IRON-NICKEL ALLOY 67-12 M13-82761
AGING OF FE-NI-TI ALLOYS IN THE PROCESS OF REVERSE ALPHA-TO-GAMMA MARTENSITIC TRANSFORMATION 67-12 M14-82334
EFFECT OF MAGNETIC FIELD ON MARTENSITIC TRANSFORMATION IN TYPE-N23G4 ALLOYS 67-12 M14-82336
CRYSTALLOGRAPHY OF THE FCC TO BCC MARTENSITIC TRANSFORMATION IN AN IRON-PLATINUM ALLOY 67-12 M14-82865
PREFERRED TRANSFORMATION IN STRAIN-HARDENED AUSTENITE 67-12 M14-82964
OBSERVATIONS OF MARTENSITE IN TERNARY CU-ZN BASED BETA-PHASE ALLOYS 67-12 M14-82980
ISOTHERMAL MARTENSITE FORMATION IN IRON-MANGANESE-CARBON ALLOYS 67-12 M14-83398
MARTENSITE TRANSFORMATIONS IN LOW-CARBON MANGANESE STEELS 67-12 M14-83399
REDUCTION IN THE MARTENSITE GRAIN SIZE IN AN FE-NI-CR ALLOY AFTER REAUSTENITIZATION 67-12 M14-83440
THE USE OF IN SITU THERMAL ANALYSIS FOR STUDIES OF TRANSFORMATIONS IN STEELS DURING WELDING 67-12 M14-83497
AUSFORMING STUDY OF THE WORK HARDENING OF METASTABLE AUSTENITE 67-12 M17-83495

MARTENSITE, ALLOYING EFFECTS
TRANSFORMATIONS IN FE-CO ALLOYS 67-07 M14-74172
THE PLATE-LIKE MARTENSITE TRANSFORMATION IN FE-NI ALLOYS 67-11 M14-81262

MARTENSITE, COMPOSITION EFFECTS
EFFECT OF CARBON CONCENTRATION ON CRYSTAL STRUCTURE OF KAPPA-PRIME-MARTENSITE 67-09 M14-77773

MARTENSITE, COOLING EFFECTS
ON THE CRYSTAL STRUCTURE OF QUENCHED STEEL 67-04 M14-67383
ELECTRON-MICROSCOPY STUDIES OF TRANSFORMATIONS IN A TI-V ALLOY 67-12 M13-82975

MARTENSITE, CRYSTAL LATTICES
AGEING STUDY OF THE MARTENSITE IN IRON-NICKEL ALLOYS WITH ALUMINIUM ADDITIONS 67-02 M13-61685
THE ELECTRON MICROSCOPIC STRUCTURE AND LATTICE DEFECTS OF THE MARTENSITE IN COMMERCIALLY PURE TITANIUM 67-03 M13-65840
TRANSFORMATION TWINS IN TITANIUM 67-03 M13-65841
STRUCTURE OF MARTENSITE 67-07 M14-72634
EFFECT OF PLASTIC STRAIN ON THE STATE OF CARBON SOLID SOLUTION IN QUENCHED STEEL MARTENSITE 67-11 M14-80745
ON THE CRYSTAL STRUCTURE OF ALPHA- AND KAPPA PRIME-MARTENSITE OF HIGH-CARBON STEEL 67-12 M13-82335

MARTENSITE, HARDENING
FORMATION OF DEFORMATION MARTENSITE ON EXPLOSIVE SHOCK LOADING OF AUSTENITIC STEELS 67-05 M14-68248

MARTENSITE, HARDNESS
ON THE HARDNESS CHANGE OF FERROUS MARTENSITE BY DEFORMATION 67-05 M17-69867

MARTENSITE, HEAT TREATMENT
MORPHOLOGY OF MARTENSITE OF HYPOEUTECTOID CARBON STEEL AFTER REAUSTENITIZING 67-06 M10-70357

MARTENSITE, HEATING EFFECTS
ELECTRON-MICROSCOPE INVESTIGATION OF THE TEMPERING OF HARDENED STEEL 67-12 M14-82153

MARTENSITE, INTERNAL FRICTION
EFFECT OF DEFORMATION AND AGING ON THE AMPLITUDE DEPENDENCE OF INTERNAL FRICTION IN MARTENSITE 67-02 M17-60740
EFFECT OF TEMPERING ON THE AMPLITUDE DEPENDENCE OF THE DAMPING CAPACITY OF MARTENSITE 67-02 M17-61686

MARTENSITE, MAGNETIC PROPERTIES
MOSSBAUER MEASUREMENT OF HYPERFINE FIELD IN MARTENSITE 67-05 M16-69096
STUDY OF THE MAGNETIC SUSCEPTIBILITY OF MARTENSITIC EPSILON-PRIME AND EPSILON PHASES IN MANGANESE STEELS 67-11 M15-80723

MARTENSITE, MECHANICAL PROPERTIES
CRYSTALLOGRAPHIC ASPECTS OF FRACTURE IN MARTENSITE 67-02 M17-60646
THE PROPERTIES OF LOW-CARBON MARTENSITE. INTRODUCTION 67-02 M17-61695
PROPERTIES OF 2KH13L STEEL IN MARTENSITIC STATE 67-02 M17-61991
THE STRENGTH OF FERROUS MARTENSITES 67-03 M17-65330
ON THE GEOMETRY OF THE FORMATION OF ELECTRON DIFFRACTION PATTERNS FROM CRYSTALS OF MARTENSITE WITH FINE TWINS 67-04 M13-67392
PROPERTIES OF 2KH13L STEEL WITH A MARTENSITE STRUCTURE 67-10 M17-78848
THE STRENGTH OF FERRITE AND OF MARTENSITE AS FUNCTIONS OF COMPOSITION, TEMPERATURE AND STRAIN RATE 67-12 M17-83063

MARTENSITE, MICROSTRUCTURE
REPLICATION OF FINE STRUCTURE IN MARTENSITE 67-01 M13-57429
ACCOMMODATION FAULTING IN FE-NI MARTENSITIC TRANSFORMATION 67-02 M14-58968
CHANGE IN THE STRUCTURE OF MARTENSITE IN NI STEELS DURING AGING 67-04 M14-67930
PLASTIC FLOW OF MARTENSITE 67-09 M13-76594
REMARKS ON THE STRUCTURE OF MARTENSITES IN CU-AL ALLOYS 67-11 M13-81269
INFLUENCE OF CARBON ON FORMATION OF MARTENSITE IN HIGH-NICKEL STEEL 67-12 M13-81834
HARDNESS CHANGE OF FERROUS MARTENSITE BY DEFORMATION 67-12 M17-82396

MARTENSITE, MOSSBAUER EFFECT
MOSSBAUER EFFECT IN IRON-CARBON MARTENSITE STRUCTURE AND ITS CHANGES AFTER TEMPERING 67-05 M16-69766

MARTENSITE, PHASE TRANSFORMATIONS
MARTENSITE. SYNTHESIS OF CLASSICAL NOTIONS AFTER THE LITERATURE 67-01 M14-57403
A NOTE ON THE TEMPERING BEHAVIOR OF A TI-9 WT PER CENT TA ALLOY QUENCHED FROM BETA REGION 67-01 M14-58739
STUDY OF 9 PER CENT NICKEL LOW-CARBON STEELS--THE PRECIPITATION OF AUSTENITE AND MICROSTRUCTURE 67-02 M14-59114
STABILIZATION OF REVERSE MARTENSITIC TRANSFORMATION UNDER THE EFFECT OF INTERNAL PRECIPITATION HARDENING 67-02 M14-59856
ON THE FEASIBILITY OF A COMPOSITE MARTENSITE MODEL FOR THE --225--F AUSTENITE-MARTENSITE TRANSFORMATION 67-02 M14-61508

STABILITY OF AUSTENITE IN SOME FE-CR-NI ALLOYS AT LOW DEFORMATION TEMPERATURES 67-02 M14-61981
STRESSES DURING MARTENSITIC TRANSFORMATIONS OF 3KH13 AND 4KH13 STAINLESS STEELS 67-04 M14-66359
A METHOD OF STUDYING THE TRANSFORMATION OF AUSTENITE UNDER WELDING CYCLE CONDITIONS 67-04 M14-66440
DETERMINATION OF THE INITIAL TEMPERATURE OF THE MARTENSITE TRANSFORMATION 67-04 M14-67132
ON THE POSITION OF CARBON ATOMS IN CRYSTAL LATTICES OF EPSILON PRIME-, EPSILON- AND KAPPA PRIME-MARTENSITE 67-04 M14-67380
KINETICS OF THE INTERMEDIATE TRANSFORMATION IN CHROMIUM-NICKEL-MANGANESE STEELS 67-05 M14-68255
INVESTIGATION OF MARTENSITIC TRANSFORMATION IN N18K8M3T ALLOY 67-05 M14-69669
EXPERIMENTAL OBSERVATION OF THE INTERMEDIATE MU-PHASE IN CU-AL BETA ALLOYS 67-05 M14-69869
MARTENSITIC TRANSFORMATION IN MEDIUM- AND LOW-ALLOY TOOL STEEL 67-06 M14-70288
EFFECT OF THE CHEMICAL COMPOSITION ON THE CONTENT OF DELTA-FERRITE AND TRANSFORMATION TEMPERATURE OF INOCULATED 12 PER CENT CHROMIUM STEELS 67-06 M14-70325
ON THE NATURE OF THE MARTENSITE TO AUSTENITE REVERSE TRANSFORMATION 67-06 M14-70435
MARTENSITIC TRANSFORMATION OF SOLID SOLUTIONS WITH COHERENT ELEMENTS 67-06 M14-71977
THE MARTENSITIC TRANSFORMATION IN COBALT 67-07 M14-72636
A PROCEDURE FOR STUDYING THE AUSTENITE TRANSFORMATION DURING WELDING CYCLES 67-07 M14-72699
STABILITY OF AUSTENITE IN SOME FE-CR-NI ALLOYS IN DEFORMATION AT LOW TEMPERATURE 67-10 M14-78838

MARTENSITE, PHYSICAL PROPERTIES
MOSSBAUER EFFECT IN IRON-CARBON AND IRON-NITROGEN ALLOYS 67-04 M16-66536

MARTENSITE, PRESSURE EFFECTS
EFFECTS OF PRESSURE ON THE STRUCTURE OF IRON-CARBON MARTENSITES 67-11 M13-81593

MARTENSITE, STRESS EFFECTS
REMARKS ON THE NUCLEATION OF MECHANICAL TWINS 67-06 M17-72242

MARTENSITE, TRANSITION POINT
EQUIATOMIC BINARY COMPOUNDS OF ZR WITH TRANSITION ELEMENTS RU, RH AND PD 67-07 M14-72655

MARTENSITE, X RAY ANALYSIS
DETERMINING THE TETRAGONALITY OF MARTENSITE AND FIRST-ORDER STRESSES BY ELECTRON PROBE MICROANALYSIS 67-06 M13-70335

MARTENSITIC STAINLESS STEELS
AISI NO. 616 --MARTENSITIC STAINLESS STEEL-- 67-11 M01-81252
UNITEMP-1430MV --HEAT AND CORROSION RESISTING STEEL-- 67-11 M01-81255

MARTENSITIC STAINLESS STEELS, CASTABILITY
STAINLESS STEEL FOR THINWALLED CASTINGS 67-02 M01-61904

MARTENSITIC STAINLESS STEELS, CHEMICAL ENGINEERING
STAINLESS STEEL AND THE CHEMICAL INDUSTRY 67-03 M20-65462

MARTENSITIC STAINLESS STEELS, CORROSION
MICROPROCESSES IN STRESS CORROSION OF MARTENSITIC STEELS 67-01 M18-58512
UNDERSTANDING THE STRESS-CORROSION BEHAVIOR OF STAINLESS STEELS 67-01 M18-58518
CORROSION OF STEELS BY SEA WATER 67-02 M18-60043
THE CORROSION RESISTANCE OF A 13 PER CENT CR STEEL IN AQUEOUS SOLUTIONS OF SALTS 67-02 M18-60211
APPLICATIONS OF STEELS FOR DESALINATION PLANTS 67-02 M18-61538
HIGH-TEMPERATURE CORROSION TESTS WITH DIFFERENT HEAT RESISTANT MATERIALS IN AN OIL/GAS FIRED INDUSTRIAL BOILER 67-02 M18-62019
THE NATURE OF STRESS-CORROSION CRACK INITIATION WITH MARTENSITIC STAINLESS STEELS 67-03 M18-65998
A NOTE ON THE EFFECT OF TESTING TEMPERATURE ON THE STRESS-CORROSION CRACKING OF MARTENSITIC STAINLESS STEELS 67-03 M18-65999
EFFICIENCY OF THE USE OF SURFACE HARDENING FOR INCREASING FATIGUE AND CORROSION FATIGUE RESISTANCE OF SOME STAINLESS STEELS 67-05 M18-69014
CORROSION CRACKING OF KH17N2 AND KH17N5M3 STAINLESS STEELS IN CHLORIDE SOLUTIONS 67-11 M18-80585

MARTENSITIC STAINLESS STEELS, FORGING
EFFECT OF HEATING TEMPERATURE ON PLASTICITY, STRUCTURE AND MECHANICAL PROPERTIES OF KH17N2 STEEL 67-01 M17-57248

MARTENSITIC STAINLESS STEELS, HEAT TREATMENT
A SOFTENING HEAT TREATMENT FOR LARGE FORGINGS FROM MARTENSITIC-CLASS STEELS 67-02 M10-61875
CARBURIZATION OF CHROMIUM STEELS IN METHANE 67-04 M10-66002
DEVELOPMENT OF HIGH-STRENGTH, CORROSION RESISTANT 13 PER CENT CR STEELS PARTICULARLY FOR TURBINE WHEELS 67-04 M10-67207
SOFTENING HEAT TREATMENT OF LARGE MARTENSITIC STEEL FORGINGS 67-04 M10-67694
HEAT TREATMENT OF INVESTMENT-CAST STAINLESS STEELS AND HIGH TEMPERATURE ALLOYS 67-05 M10-69889
HEAT TREATMENT OF STRUCTURAL STEEL AND OF TOOL STEELS. PT. 16. FLAME HARDENING 67-07 M10-74221
HIGH STRENGTH STAINLESS STEELS 67-12 M10-81773

MARTENSITIC STAINLESS STEELS, MACHINING
MEASUREMENT OF THE STATE OF STRESS IN SURFACE LAYERS FOLLOWING MACHINING 67-02 M08-60827

MARTENSITIC STAINLESS STEELS, MECHANICAL PROPERTIES
EFFECT OF NB, TI AND B ON THE ELEVATED-TEMPERATURE MECHANICAL PROPERTIES OF A CR12W2V STEEL 67-02 M17-60210
STUDIES OF IRRADIATION EFFECTS ON SWEDISH STEELS 67-03 M17-65685
TEMPERATURE DEPENDENCE OF MECHANICAL PROPERTIES OF AUSTENITIC-MARTENSITIC STEELS 67-03 M17-65967
NEW STEELS FOR THE CPI 67-04 M01-66588
THE EFFECT OF DELTA-FERRITE ON THE IMPACT STRENGTH OF THE WELD METAL IN JOINTS IN TRANSITIONAL STEELS 67-04 M17-66463
RELATIONSHIP BETWEEN THE TORSION OR BENDING CREEP STRENGTH AND THE TENSION CREEP STRENGTH OF 13 PER CENT CR STEEL 67-04 M17-66894
REDUCTION OF ADSORPTION CAPACITY BY STEEL SPECIMENS IN CONTACT WITH A MELT, AND THE ROLE OF GASEOUS IMPURITIES 67-04 M17-67048
EFFECT OF THE HARDNESS AND STRUCTURE OF STEEL ON RESISTANCE TO HYDRAULIC ABRASION AND CAVITATION 67-04 M17-67049
INVESTIGATION OF THE RESISTANCE TO CAVITATION AND ABRASION OF MATERIALS FOR HYDRAULIC TURBINES 67-05 M17-68453
CARPENTER CUSTOM 455 67-06 M01-71159
JETHETE M. 153 --HEAT RESISTING STEEL-- 67-06 M01-71455
THE EFFECTS OF EXTENDED ANNEALING AT 500 TO 700 C. ON THE CREEP CHARACTERISTICS OF 13 CR MO 44 AT 550 C 67-06 M17-70260
OPTIMUM TEMPERATURES OF PLASTIC DEFORMATION OF STAINLESS STEELS 67-06 M17-70918
SPECIAL STAINLESS STEELS 67-07 M17-73718
HIGH-TENSILE STAINLESS STEEL VNL 1 67-08 M17-74539
INCREASE IN DUCTILITY AND PLASTICITY OF MARTENSITIC STAINLESS STEELS AT MINUS 196 C. AS THE RESULT OF THE REVERSE MARTENSITIC TRANSFORMATION 67-08 M17-74966
NOTE CONVERNING 13 PER CENT CHROME STEELS 67-08 M17-76234
FATIGUE LIMIT IN AIR AND UNDER CORROSION OF A MARTENSITIC STEEL CONTAINING 13 PER CENT CR AFTER DIFFERENT MECHANICAL AND HEAT TREATMENTS 67-09 M17-78039
TYPICAL PROPERTIES OF WROUGHT STAINLESS STEELS 67-10 M17-79754
PROPERTIES OF TWO HIGHLY ALLOYED MARTENSITIC STAINLESS STEELS AND A PRECIPITATION-HARDENED AUSTENITIC STAINLESS STEEL IN THE TEMPERATURE RANGE 500 TO 700 C 67-11 M17-80275

MARTENSITIC STAINLESS STEELS, MELTING
STEEL FROM LARGE ARC FURNACES REFINED WITH SYNTHETIC SLAG 67-04 M04-67872

MARTENSITIC STAINLESS STEELS, METAL WORKING
THERMOMECHANICAL TREATMENT OF HEAT-RESISTANT MARTENSITIC STEELS 67-02 M10-60293
RESIDUAL STRESSES DUE TO DEFORMATION IN A CR STEEL FOLLOWING DIFFERENT SURFACE TREATMENTS 67-08 M17-75507

MARTENSITIC STAINLESS STEELS, MICROSTRUCTURE
THE INFLUENCE OF REACTOR IRRADIATION AND THERMAL

MARTENSITIC STAINLESS STEELS
ANNEALING ON SOME STAINLESS STEELS 67-04 M14-67105
ELECTRON-MICROSCOPIC INVESTIGATION OF FINE CUTTING BY RAZOR BLADES 67-06 M13-72164
MARTENSITIC STAINLESS STEELS, PHASE TRANSFORMATIONS
EFFECT OF THE CHEMICAL COMPOSITION ON THE CONTENT OF DELTA-FERRITE AND TRANSFORMATION TEMPERATURE OF INOCULATED 12 PER CENT CHROMIUM STEELS 67-06 M14-70325
MAGNETIC STUDY OF MARTENSITIC TRANSFORMATION OF STAINLESS STEEL 67-11 M15-81472
MARTENSITIC STAINLESS STEELS, PHASES /STATE OF MATTER/
STRUCTURAL DIAGRAMS OF THE QUATERNARY 18 PER CENT CR-FE-C-N SYSTEM 67-02 M13-59983
MARTENSITIC STAINLESS STEELS, PHYSICAL PROPERTIES
SPECIAL STEELS FOR HIGH-TEMPERATURE SERVICE 67-07 M17-74270
ALLEGHENY LUDLUM 419. --HIGH TEMPERATURE ALLOY-- 67-09 M01-76522
MARTENSITIC STAINLESS STEELS, SURFACE FINISHING
ACHIEVING FINE SURFACE TEXTURE AND GEOMETRY WITH MACHINE LAPPING 67-07 M12-74223
MARTENSITIC STAINLESS STEELS, THERMAL PROPERTIES
METALS WORKABLE AT HIGH TEMPERATURES AND UNDER STRONG PRESSURE--THEIR CHARACTERISTICS, USE AND APPLICATION TO PETROLEUM CHEMISTRY 67-04 M15-67295
MARTENSITIC STAINLESS STEELS, WELDING
CRACK WELDINGS OF 13 PER CENT CR STEEL CASTINGS 67-01 M11-57240
WELDING HEAT-RESISTANT CHROMIUM STEEL EI756 67-01 M11-58212
TECHNIQUES APPLIED IN JOINING PIPES FOR PETROLEUM INDUSTRY 67-01 M11-58349
WELDABILITY AND MAJOR WELDING PROCESSES FOR STAINLESS STEELS 67-02 M11-59803
IMPROVING THE PROPERTIES OF WELDED JOINTS IN VNS2 STEEL 67-02 M17-60010
ACID-RESISTANT STEELS AND THEIR DEVELOPMENT 67-02 M20-61055
FATIGUE STRENGTH OF A WELDABLE HIGH STRENGTH MARTENSITIC STAINLESS STEEL 67-12 M11-82820
MASH SEAM WELDING
THE MASH-LAP WELDING PROCESS 67-02 M11-59486
MASH SEAM WELD METHOD 67-02 M11-60940
STRIP TOO THIN TO BUTT WELD. MASH-LAP IT 67-03 M11-65362
RESISTANCE WELDING TODAY 67-06 M11-72244
MASONRY
SEE BRICK
FIREBRICK
SILICA BRICK
MASS FLOW
USE OF COMPOSITE BILLETS FOR STUDYING METAL DISPLACEMENT DURING STAMPING 67-05 M07-69438
MATERIAL TRANSFER BETWEEN THE GAS STREAM AND THE ORE IN A BLAST FURNACE 67-08 M04-75657
MASS NUMBER
SEE ATOMIC PROPERTIES
MASS SPECTRA
MOLECULAR COMPOSITION OF BISMUTH VAPOR 67-04 M15-67823
MASS SPECTROMETERS
USE OF MASS-SPECTROMETRY FOR THE INVESTIGATION OF REFRACTORY COMPOUNDS 67-02 M15-60584
THE EVAPORATION OF LANTHANUM HEXABORIDE 67-02 M15-62127
MASS SPECTROMETRIC ANALYSIS OF SOLIDS 67-02 M19-59501
INTRODUCTORY SURVEY 67-02 M19-59502
PHOTOGRAPHIC EMULSIONS AS ION DETECTORS IN QUANTITATIVE MASS SPECTROGRAPHY 67-02 M19-59503
ANALYSIS OF SPECIAL SAMPLES 67-02 M19-59504
MASS SPECTROGRAPHIC MICROPROBE ANALYSIS 67-02 M19-59505
THE STATUS OF HIGH PURITY AT A. W. R. E. ALDEMASTON 67-03 M19-65248
ANALYSIS OF BERYLLIUM SPECIMENS BY SPARK MASS SPECTROMETRY 67-03 M19-65249
THE ELECTRON MICROPROBE 67-04 M19-67261
DETERMINATION OF TRACE IMPURITIES IN METALS BY SPARK SOURCE MASS SPECTROMETRY 67-04 M19-67599
MASS SPECTROMETRIC INVESTIGATION OF THE INTERACTION OF OXYGEN WITH A TUNGSTEN SURFACE 67-05 M16-69036
MASS SPECTROMETER ANALYSIS OF A SOLID SURFACE 67-06 M19-70239
MASS SPECTROMETRY. CONTRIBUTION TO THE STUDY OF THE ANALYSIS OF ALUMINUM 67-06 M19-72190
NOT ASSURES VACUUM TIGHTNESS IN CRYOGENIC TANKS 67-06 M19-72248
MASS SPECTROMETRY AND ITS APPLICATIONS IN METALLURGY AND MATERIALS SCIENCE 67-07 M19-74269
KINETICS OF THE EVOLUTION OF NITROGEN FROM MN-FE AND MN-SI ALLOYS INVESTIGATED BY MASS SPECTROMETRY 67-08 M03-75450
VACUUM SYSTEM OF ION-MICROPROBE MASS SPECTROMETER 67-08 M19-74562
MASS SPECTROGRAPHIC ANALYSIS OF THIN FILMS 67-08 M19-74710
IMPURITY ANALYSIS OF ALKALI HALIDES BY MASS SPECTROGRAPHY 67-08 M19-75992
VACUUM FUSION-MASS SPECTROMETRIC ANALYSIS OF GASES IN IRON AND STEEL. PT. 1. AN APPARATUS FOR THE ANALYSIS OF MICROAMOUNTS OF GASES IN IRON AND STEEL BY VACUUM FUSION-MASS SPECTROMETRY 67-11 M04-81067
HIGH-TEMPERATURE VAPORIZATION STUDIES BY MASS SPECTROMETRY. PT. 2. THE SAMARIUM-CARBON SYSTEM 67-11 M15-80303
TRACE CHARACTERIZATION--CHEMICAL AND PHYSICAL 67-11 M19-80130
SPARK SOURCE MASS SPECTROMETRIC ANALYSIS OF SOLIDS 67-11 M19-80138
MASS SPECTROGRAPHY, A RECENT ANALYTICAL METHOD, AND ITS APPLICATION TO THE ANALYSIS OF ALUMINUM 67-11 M19-80148
MASS SPECTROMETRY
SEE MASS SPECTROMETERS
MASS SPECTROSCOPY
SEE MASS SPECTROMETERS
MASS TRANSFER
SURFACE ROUGHNESS EFFECTS IN ELECTRODEPOSITION OF COPPER IN THE LIMITING CURRENT RANGE 67-03 M03-65424
MASS TRANSFER OF NIOBIUM-BASE ALLOYS IN FLOWING NONISOTHERMAL LITHIUM 67-04 M14-66387
DIFFUSION IN A TERNARY SUBSTITUTIONAL SYSTEM-- APPLICATION TO THE COBALT-NICKEL-CHROMIUM SYSTEM 67-04 M14-67268
THE MECHANISM OF TRANSPORT OF MATTER THROUGH THE SCALES DURING OXIDATION OF METALS AND ALLOYS 67-05 M18-69706
MASS TRANSFER IN TWO IRON-NICKEL ALLOYS 67-06 M15-70365
ELECTROMIGRATION AND THERMAL TRANSPORT IN SODIUM METAL 67-06 M16-69916
CONDENSATION OF MAGNESIUM VAPOR FROM A MIXTURE WITH HELIUM 67-11 M12-81214
SURFACE SELF-DIFFUSION OF GOLD. PT. 2. REAL AND APPARENT ANISOTROPY OF THE SURFACE SELF-DIFFUSION COEFFICIENT 67-12 M14-82852
MEASURING METHODS FOR MASS TRANSPORT 67-12 M16-82050
MASS TRANSFER, ALLOYING EFFECTS
MASS TRANSFER PHENOMENA CAUSED BY LIQUID SODIUM AT NICKEL AND MOLYBDENUM ALLOYS 67-10 M18-79091
MASS TRANSFER, WELDING EFFECTS
FUNDAMENTALS OF MAGNETIC PULSE WELDING 67-06 M11-71218
MASSIVE TYPE TRANSFORMATION
DETERMINING THE LATENT HEAT OF MARTENSITIC TRANSFORMATION PRODUCED IN STEEL BY A MAGNETIC FIELD 67-02 M14-59934
MARTENSITE IN TERNARY CU-ZN-BASED BETA-PHASE ALLOYS 67-03 M14-65079
EFFECT OF OXYGEN ON PROPERTIES AND STRUCTURE OF VT16 TITANIUM ALLOY 67-03 M14-65587
THE PHENOMENOLOGICAL THEORY OF COMPOSITE MARTENSITE. PT. 1. THE --HHL-- HABIT IN STEELS 67-04 M13-66057
DISORIENTATIONS IN AN IRON-NICKEL ALLOY AFTER THE DIRECT AND REVERSE MARTENSITIC TRANSFORMATIONS 67-04 M13-67639
STRESSES DURING MARTENSITIC TRANSFORMATIONS OF 3KH13 AND 4KH13 STAINLESS STEELS 67-04 M14-66359
HYSTERESIS IN MARTENSITIC TRANSFORMATIONS 67-04 M14-66532
STRENGTHENING OF AUSTENITE DURING DIRECT AND REVERSE MARTENSITIC TRANSFORMATION 67-04 M14-67938
A CINEMATOGRAPHIC STUDY OF THE MASSIVE TRANSFORMATION IN CU-GA ALLOYS 67-06 M14-70403

CRYSTALLOGRAPHIC TRANSFORMATIONS
67-07 M14-73682

MATERIALS HANDLING
SEE ALSO FEEDING
MELT TRANSFER
PACKAGING
ALUMINIUM MELTING IN BULK 67-06 M03-70707
RESEARCH IMPROVES RAW MATERIAL HANDLING TECHNIQUES
67-11 M04-81493

MATERIALS OF CONSTRUCTION
SEE CONSTRUCTION MATERIALS

MATERIALS TESTING
SEE ALSO CHEMICAL ANALYSIS
FOUNDATION OF NATIONAL RESEARCH INSTITUTE FOR METALS, PROCEEDINGS 67-04 M01-67539
STATISTICAL TESTING OF MATERIALS IN METALLURGY
67-10 M19-78320

MATHEMATICAL ANALYSIS
SEE ALSO FOURIER ANALYSIS
NUMERICAL ANALYSIS
SLAB REHEATING 67-03 M07-65921
TECHNIQUES FOR ANALYZING COMBINED FIRST-AND SECOND-STAGE CREEP DATA 67-03 M17-65095
AN ALGORITHM FOR CONTROLLING THE TECHNOLOGICAL PROCESS OF RUNNING OXYGEN-BLOWN CONVERTERS
67-04 M04-66708
CALCULATING WELDING DEFORMATIONS WITH ELECTRONIC DIGITAL COMPUTERS 67-04 M11-67353
A QUANTITATIVE APPROACH TO CASTING SOLIDIFICATION--FREEZING OF CAST IRON 67-04 M14-66940
CAST IRON AND BRINELL HARDNESS. PT. 2
67-04 M17-66661
NUMERICAL DESCRIPTIONS OF THE AMBIENT LOW-TEMPERATURE, AND HIGH-STRAIN RATE FLOW AND FRACTURE BEHAVIOR OF PLAIN CARBON STEEL
67-04 M17-66941
A MATHEMATICAL EXPRESSION OF THE RELATION OF IMPACT STRENGTH OF LOW-CARBON STEELS TO TESTING TEMPERATURE AND CARBON CONTENT
67-04 M17-67616
DETERMINING THE MECHANICAL PROPERTIES OF METALS BY PLURAL CORRELATION 67-09 M17-77868
PREDICTION OF EXTRUSION PRESSURES IN THE COLD FORGING OF STEEL 67-12 M07-82767
MATHEMATICAL AND EMPIRICAL DETERMINATION OF THE DISTRIBUTION COEFFICIENT OF ZINC IN ALUMINUM
67-12 M14-81783
COMPUTER CALCULATION OF THE THERMAL AND ELECTRICAL PHENOMENA IN THE CATHODES OF ALUMINUM ELECTROLYTIC CELLS 67-12 M15-82756

MATHEMATICAL MACHINES
SEE ANALOG COMPUTERS
COMPUTERS
DIGITAL COMPUTERS
ELECTRONIC COMPUTERS

MATHEMATICAL MODELS
PROCESS SIMULATION AND CONTROL IN IRON AND STEELMAKING 67-01 M04-57901
IMPROVED MATHEMATICAL MODEL FOR GASEOUS REDUCTION OF HEMATITE IN A FIXED BED 67-01 M04-57902
THERMOCHEMICAL MODEL OF A BASIC HOT-BLAST CUPOLA
67-01 M04-57903
A THERMOCHEMICAL APPROACH TO PREDICTION OF OPENHEARTH VARIABLES 67-01 M04-57904
FUNDAMENTALS OF CONTROL SYSTEM DESIGN FOR THE BASIC OXYGEN PROCESS 67-01 M04-57905
DEVELOPMENT OF MATHEMATICAL MODELS WHICH PREDICT THE MECHANICAL PROPERTIES OF HIGH ALLOY, ULTRA-HIGH STRENGTH STEEL CASTINGS 67-01 M17-58479
MATHEMATICAL MODELING OF LEAD OXIDE REDUCTION BY CARBON MONOXIDE 67-02 M03-58856
THE BLAST FURNACE, AN EXAMPLE OF A CHEMICAL REACTOR OPERATING WITH A CONSUMABLE BURDEN
67-02 M04-60818
DESCRIPTION OF THE DYNAMICS OF A BLAST FURNACE UNDER THE EFFECT OF DISTURBANCES
67-02 M04-61759
ESTABLISHING A MODEL OF THE DYNAMIC CHARACTERISTICS OF A BLAST FURNACE BY THE DELTA K-DELTA SI CHANNEL
67-02 M04-61760
MATHEMATICAL MODELING OF TUBE PRODUCTION
67-02 M07-61620
ON THE ASSESSMENT OF SOME FACTORS INVOLVED IN ROLLING METAL POWDERS 67-02 M09-62204
CONSTRUCTING A MATHEMATICAL MODEL OF THE PROCESS OF CHLORINATING TITANIUM SLAGS IN A MELT
67-03 M02-65594
MODELING THE COOLING OF STEEL INGOTS
67-04 M04-66100
AN INPUT-OUTPUT MODEL TO CALCULATE THE PRODUCTION FLOW OF CATHODIC CU 67-10 M03-78314
A COMPUTER MODEL OF THE SLAG-FUMING PROCESS FOR RECOVERY OF ZINC OXIDE 67-12 M03-82765
A MODEL FOR CONCENTRATED INTERSTITIAL SOLID SOLUTIONS--ITS APPLICATION TO SOLUTIONS OF CARBON IN GAMMA IRON 67-12 M14-82574
A COMPREHENSIVE CREEP MODEL 67-12 M17-83243

MATHEMATICS
SEE FOURIER ANALYSIS
MATHEMATICAL ANALYSIS
NUMERICAL ANALYSIS
TOPOLOGY

MATTES
REDUCTION ELECTROMELTING OF CONVERTER SLAGS FROM NICKEL PRODUCTION 67-02 M02-60562
ON THE CAUSES OF THE FORMATION OF FROTH ON NICKEL MATTE 67-04 M03-66965

MATTES, BENEFICIATION
PRODUCTION OF ZINC ELECTROLYTE FROM WAELZ OXIDES
67-04 M03-68049

MATTES, CHEMICAL ANALYSIS
FORMS OF EXISTENCE OF NICKEL IN DUMP SLAGS OF THE NICKEL INDUSTRY 67-11 M13-81632
APPLICATION OF THE ELECTRON BEAM MICROPROBE TO THE PROBLEM OF METAL EXTRACTION 67-12 M19-81960

MATTES, CHEMICAL ATTACK
LINING LIFE FOR CONVERTERS TREATING HIGH-METALLIZED COPPER-NICKEL MATTES
67-07 M03-72781

MATTES, CHEMICAL EQUILIBRIUM
PHASE EXCHANGE BETWEEN COPPER MATTE AND SLAG
67-08 M14-75692

MATTES, LEACHING
AUTOCLAVE LEACHING OF NICKEL MATTES
67-02 M03-59191

MATTES, MELTING
LOSSES OF METALS WITH SLAG DURING CONVERTER BLOWING OF COPPER-NICKEL MATTE 67-04 M03-66964
STUDY OF THE FEASIBILITY OF REMOVING ZINC FROM POLYMETALLIC CONCENTRATES DURING OXYGEN JET MELTING 67-05 M03-69533

MATTES, PHASES /STATE OF MATTER/
SOME RESULTS OF A STUDY OF THE PHASE COMPOSITION AND STRUCTURE OF SLAGS FROM FUSION OF COPPER AND NICKEL 67-11 M13-81512

MATTES, REACTIONS /CHEMICAL/
ON THE DESTRUCTION OF MAGNETITE IN THE CONVERTER
67-09 M04-77110
DECOMPOSITION OF COPPER, ZINC AND IRON FERRITES DURING THEIR REACTION WITH MATTE
67-10 M14-80046
MEASURING THE SOLUBILITY OF NICKEL IN SILICATE MELTS BY THE ELECTROMOTIVE FORCE METHOD
67-11 M14-81153

MATTES, REFINING
PROCESSING URALS COPPER-ZINC CONCENTRATES IN CONVERTERS 67-02 M03-59548
EXPERIMENTAL APPLICATION OF OXYGEN ADDITION IN THE COPPER CONVERTER OF NORTH GERMAN REFINERY
67-05 M03-69119
THE KINETICS OF DESULFURIZATION OF NICKEL MATTE IN A FLUIDIZED BED 67-08 M02-75448
CYCLONE SMELTING COPPER CONCENTRATES IN A HORIZONTAL CYCLONE FURNACE 67-09 M03-76879
DESULFURIZATION KINETICS OF NICKEL-NICKEL SULFIDE MIXTURE IN THE FLUIDIZED BED 67-10 M03-79129

MATTES, SMELTING
INCREASED PRODUCTIVITY AND EFFICIENCY IN THE OPERATION OF REVERBERATORY FURNACES
67-02 M03-59700
THERMODYNAMIC ANALYSIS OF CERTAIN REACTIONS IN CONVERTER BLOWING OF COPPER MATTES WITH FLUXES MIXED WITH LIMESTONE 67-02 M03-60080
CAUSES OF THE FORMATION OF FINELY DISPERSED SUSPENSIONS OF METALS AND MATTE IN SLAG MELTS
67-02 M03-61608
AN INVESTIGATION OF RESIDUAL SOLIDIFIED CRUST FORMING ON REVERBATORY FURNACE HEARTHS
67-12 M02-83090

MATTES, SOLUBILITY
ON THE SOLUBILITIES OF FERRIC OXIDES AND OTHER SLAG FORMERS IN COPPER MATTE 67-11 M13-81452

MATTES, STATISTICAL ANALYSIS
USE OF STATISTICAL METHODS FOR PROCESSING DATA FROM ORE ELECTROSMELTING 67-05 M03-69531

MATTES, X RAY ANALYSIS
INVESTIGATIONS ON CU-NI-AS-S-SYSTEM AND THE DISTRIBUTION OF SILVER ON MATTE AND SPEISS

MATTES
67-10 M19-78565
MAXWELLIAN DISTRIBUTION
THE DRIFTED MAXWELLIAN DISTRIBUTION FUNCTION IN INSB 67-08 M16-75248
MEAN FREE PATH
STUDIES ON WROUGHT EUTECTIC-TYPE ALUMINUM-SILICON ALLOYS 67-04 M17-67118
MEAN FREE PATHS OF ELECTRONS IN DISORDERED METAL FILMS 67-06 M16-72091
BALLISTIC MEAN-FREE PATH MEASUREMENTS OF HOT ELECTRONS IN METAL FILMS 67-08 M15-74719
QUENCHED THIN PB FILMS. COMPARISON OF MEAN FREE PATHS CALCULATED FROM CRITICAL MAGNETIC FIELD VALUES WITH ELECTRON DIFFRACTION RESULTS 67-08 M16-75834
AMPLITUDE-INDEPENDENT ULTRASONIC ATTENUATION IN SUPERCONDUCTING LEAD 67-10 M16-79150
INVESTIGATION OF THE THERMAL CONDUCTIVITY OF INSB-GASB SOLID SOLUTIONS 67-11 M15-80229
MEASUREMENT
SEE SIEVE ANALYSIS
MEASURING INSTRUMENTS
APPARATUS FOR CONTROL OF ALUMINA PRODUCTION 67-02 M03-59193
DETERMINATION OF THE DISSOLUTION RATE OF MATERIALS IN LIQUID METALS 67-02 M14-60978
AN ALPHA-MANGANESE RESISTANCE THERMOMETER FOR THE MEASUREMENT OF LOW TEMPERATURES 67-03 M20-65738
THE THERMAL GAP IN MICROINCH MEASUREMENT AND MACHINING 67-06 M08-69957
THE APPLICATION OF NONDESTRUCTIVE COATING THICKNESS-MEASURING METHODS 67-07 M12-73821
LAYER THICKNESS MEASUREMENT USING KIESSIGS METHOD WITH AN AUTOMATICALLY RECORDING GONIOMETER 67-07 M19-74025
THE ALU-SCHMELZTESTER--A NEW INSTRUMENT FOR THE DETERMINATION OF HYDROGEN IN ALUMINUM MELTS 67-07 M19-74032
EXPERIENCE WITH A RADIOMETRIC THICKNESS GAGE FOR PLATES IN THE OLBERNHAU SHEET ROLLING MILL 67-08 M19-74450
A SURVEY OF THIN FILM THICKNESS MEASUREMENT METHODS 67-08 M19-74712
OPTIMIZATION OF THE TOLANSKY TECHNIQUE FOR THIN FILM THICKNESS MEASUREMENTS 67-08 M19-74713
NO CONTACT STRIP THICKNESS MEASUREMENT WITH RADIOISOTOPES 67-08 M19-75765
MEASURING THE SURFACE FINISH. PT. 4 67-09 M19-76688
USE OF ISOTOPIC DEVICES FOR MEASURING THE LENGTH OF ROLLED PRODUCTS IN THE ROLLING PROCESS 67-10 M07-79864
MECHANICAL CLASSIFICATION
THE APPLICATION OF ELECTRONIC SORTING TO MINERALS BENEFICIATION 67-05 M02-68644
MECHANICAL CLASSIFIERS
SEE JIGS /CONCENTRATORS/
MECHANICAL CLEANING
SEE ALSO BLAST CLEANING
GRIT BLAST CLEANING
HOW TO PREPARE THE SURFACE OF METALS AND NONMETALS FOR ADHESIVE BONDING 67-06 M12-70030
MECHANICAL DISINTEGRATION
SEE COMMINUTION
MECHANICAL FINISHING
SEE ALSO ABRASIVE BLASTING
BARREL FINISHING
BARREL TUMBLING
BUFFING
BURNISHING
DIAMOND BURNISHING
GRIT BLASTING
MECHANICAL POLISHING
PEENING
PLANISHING
ROLL BURNISHING
ROLLER BURNISHING
SANDBLASTING
SHOT BLASTING
SHOT PEENING
WIRE BRUSHING
VIBRATION AND TUMBLING--A NEW DIMENSION IN FINISHING 67-03 M12-65664
MECHANICAL FINISHING 67-08 M12-74853
MECHANICAL HYSTERESIS
SEE HYSTERESIS
MECHANICAL PLATING
SEE ROLL PLATING
MECHANICAL POLISHING
FUNDAMENTAL STUDIES ON LAPPING 67-01 M08-57216
THE POLISHING OF HARDENED STEEL PARTS BY THE TROWAL-HZ-VZ PROCESS 67-01 M12-58428
DEFORMATION OF COPPER CRYSTALS DURING CUTTING BY STANDARD METHODS 67-06 M13-71621
ON THE KINEMATICS OF THE LAPPING PROCESS 67-08 M12-74899
MECHANICAL POLISHING /METALLURGY/
SEE MECHANICAL POLISHING
METALLOGRAPHY
MECHANICAL PROPERTIES
CONTRIBUTION TO THE CAST CU-ZN-SI ALLOYS 67-01 M06-57238
MECHANICAL BEHAVIOR OF MATERIALS 67-01 M17-57401
SELECTED PAPERS 67-02 M17-58802
SOME ASPECTS OF THE PRESS FORMABILITY OF COMMERCIAL-PURITY ZINC STRIP 67-02 M17-60227
STRENGTHENING OF STEEL BY THERMOMECHANICAL TREATMENTS 67-03 M08-65332
EFFECTS OF ADSORPTION ON STRENGTH 67-03 M14-65343
STRUCTURE AND HIGH-STRENGTH METALS 67-03 M17-65329
INFLUENCE OF PRODUCTION METHOD ON PROPERTIES, PHASE COMPOSITION, AND STRUCTURE OF KHN77TYUR ALLOY 67-04 M14-67687
EFFECT OF ALLOYING WITH MOLYBDENUM, TUNGSTEN, AND OTHER ELEMENTS ON THE PROPERTIES AND STRUCTURE OF HEAT-RESISTING NICKEL ALLOYS IN THE CAST CONDITION 67-04 M17-67695
EFFECTS OF RARE-EARTH ADDITIONS ON PLAIN-CARBON STEEL 67-04 M17-68176
EFFECTS OF EXPLOSIVE FORMING ON PROPERTIES OF AUSTENITIC STAINLESS STEELS 67-05 M08-69751
EFFECT OF HEAT TREATMENT ON STRUCTURAL PROPERTIES OF CR18NI9TI STEEL FOR CASTINGS 67-05 M17-69252
STRUCTURE AND PROPERTIES OF CAVITATION-RESISTANT 30KH10G10 STEEL 67-05 M17-69307
STAINLESS STEEL WIRE SPRING 67-06 M08-72045
DESCRIPTIVE APPROACH TO MECHANICAL PROPERTIES OF MATERIALS. PT. 7 67-06 M17-70024
QUENCHED AND TEMPERED PLATE STEELS 67-06 M17-71328
THE MECHANICAL PROPERTIES OF ZINC SINGLE CRYSTALS AT HIGH STRAIN RATES 67-06 M17-71410
NICKLE-AND COBALT-BASE ALLOYS 67-07 M01-74253
ANTIPHASE BOUNDARIES AND DOMAINS 67-07 M13-73674
SPECIAL STAINLESS STEELS 67-07 M17-73718
SPECIAL FEATURES IN THE PRODUCTION OF STAINLESS STEEL SPRING WIRE 67-07 M17-74150
AGING OF MARTENSITE IN FE-NI-MN STEELS 67-08 M14-76024
HIGH-TENSILE STAINLESS STEEL VNL 1 67-08 M17-74539
INVESTIGATING QUALITY OF 1020 MM DIAMETER HELICALLY WELDED TUBES MADE FROM 15G2S STEEL 67-08 M17-75729
INFLUENCE OF MELTING UNDER VACUUM ON THE PROPERTIES OF FERRITIC HIGH-TEMPERATURE STEEL 67-09 M04-77222
HOT REMOVAL OF ALUMINUM FROM CUPRO-ALUMINUMS--A CASE STUDY 67-09 M10-77396
NEW ALLOYS FOR ELECTRODES OF RESISTANCE WELDING MACHINES 67-09 M11-77608
UNWELDABLE CLASS A-IV --65GS-- STEEL 67-09 M17-76971
THE MECHANICAL PROPERTIES OF AUSFORMED TOOL STEELS CONTAINING 9 PER CENT W-3 PER CENT CR 67-09 M17-77252
SELECTED MECHANICAL PROPERTIES OF CLADDING AND STRUCTURAL MATERIALS. REFRACTORY METALS 67-09 M17-77322
A DETERMINATION OF THE FRACTURE TOUGHNESS OF EGCR-TYPE AGOT GRAPHITE 67-09 M17-77469
MECHANICAL PROPERTIES AND CLEAVAGE FRACTURE OF IRON SINGLE CRYSTALS AT 77 K 67-09 M17-77597
FATIGUE RESISTANCE OF 16GNM STEEL ELECTROSLAG WELDED JOINTS 67-09 M17-77603
ROOM TEMPERATURE MECHANICAL PROPERTIES OF CADMIUM-ZINC LAMELLAR EUTECTIC ALLOYS 67-09 M17-77928
METHOD OF ASSESSING THE PLASTIC ANISOTROPY OF SHEET METAL 67-09 M17-78071
MECHANICAL-THERMAL TREATMENT OF WELDED JOINTS IN VT-15 TITANIUM ALLOY 67-09 M17-78086

EFFECT OF THE TEMPERATURE OF DEFORMATION DURING THERMOMECHANICAL TREATMENT ON THE MECHANICAL PROPERTIES AND COLD BRITTLENESS THRESHOLD OF STRUCTURAL ALLOY STEEL 67-10 M17-78818
TRACE CHARACTERIZATION AND THE PROPERTIES OF MATERIALS 67-11 M01-80131
ELECTRONS, NEUTRONS AND PROTONS IN ENGINEERING 67-11 M01-81101
INFLUENCE OF VACUUM MELTING AND POURING ON THE STRUCTURE AND PROPERTIES OF NI-HARD CAST IRON 67-11 M17-81532
INVESTIGATION OF 1KH12VNMF STEEL FOR FORGED TURBINE ROTORS 67-12 M17-81839
MECHANICAL PROPERTIES OF THE BR. NBT ALLOY AT DIFFERENT TEMPERATURES 67-12 M17-83098

MECHANICAL PROPERTIES, ALLOYING EFFECTS
EFFECT OF NITROGEN ON CHILLED GREY CAST IRON 67-01 M06-57498
INFLUENCE OF ALLOYING ELEMENTS ON MECHANICAL PROPERTIES OF BASIC WELD DEPOSITED METAL. PT. 2. STRESS RELIEF ANNEALING 67-01 M17-57911
MECHANICAL AND ELECTRON-MICROSCOPE INVESTIGATION OF TEMPERING PROCESSES IN V-CONTAINING AND V-FREE HARDENABLE STRUCTURAL STEELS 67-02 M17-59624
THE EFFECTS OF CADMIUM ADDITION ON MECHANICAL . PROPERTIES OF PB-0.06 PER CENT CU ALLOY 67-02 M17-60263
EFFECT OF ALLOYING WITH MOLYBDENUM, TUNGSTEN AND OTHER ELEMENTS ON PROPERTIES AND STRUCTURE OF HEAT RESISTANT NICKEL ALLOYS IN CAST STATE 67-02 M17-61876
ELECTRON CONCENTRATION AND METALLIC 'PROPERTIES' 67-03 M17-65339
THE EFFECT OF ALLOYING ELEMENTS ON THE PROPERTIES OF THE WELDABLE HIGH STRENGTH STEEL. PT. 1. THE EFFECT OF ALLOYING ELEMENTS ON THE MECHANICAL PROPERTIES OF NORMALIZED HIGH STRENGTH STEEL. PT. 2. THE EFFECT OF ALLOYING ELEMENTS ON THE HARDENABILITY, MECHANICAL PROPERTIES AND WELDABILITY OF QUENCHED AND TEMPERED HIGH STRENGTH STEEL 67-03 M17-65821
WAYS TO INCREASE THE STRENGTH OF STRUCTURAL STEELS 67-04 M17-66378
STUDY OF THE EFFECT OF MICROALLOYING ELEMENTS ON THE INCREASE IN STRENGTH OF STRUCTURAL STEELS USED FOR PRESTRESSED CONCRETE 67-04 M17-67436
THE INFLUENCE OF ALUMINIUM AND IRON ADDITIONS ON COPPER-MANGANESE-ZINC ALLOYS 67-05 M01-68496
GRAIN REFINING AND MECHANICAL PROPERTIES OF URANIUM ALLOYS CONTAINING SMALL AMOUNTS OF VANADIUM 67-05 M14-68918
EFFECT OF MOLYBDENUM AND TUNGSTEN ON THE PROPERTIES OF KH25N16G7AR STEEL 67-05 M17-68356
INFLUENCE OF SMALL AMOUNTS OF NIOBIUM ON THE MECHANICAL PROPERTIES OF 25G2 STEEL 67-05 M17-68385
THE EFFECT OF COMBINED, SIMULTANEOUS ADDITION OF MO, NB, TI, N, B ON HIGH TEMPERATURE PROPERTIES OF 18CR-12NI AUSTENITIC HEAT RESISTING STEEL 67-05 M17-69711
NEW STEEL FOR HEAT RESISTANT CASTINGS 67-06 M17-70333
LOW ALLOY CASE HARDENABLE STEELS WITH A CORE OF HIGH STRENGTH AND DUCTILITY 67-06 M17-70354
EFFECT OF COLUMBIUM ON THE PROPERTIES OF WELDABLE PLAIN CARBON STRUCTURAL STEELS 67-06 M17-71437
EFFECT OF SUPPLEMENTAL ALLOYING ON THE PROPERTIES OF ALLOYS OF THE MG-LI-AL SYSTEM 67-06 M17-72124
EFFECT OF ADDITIVES ON THE PROPERTIES OF BR. OTS10-2 TIN BRONZE 67-06 M17-72125
ALLOYING STEEL WITH TUNGSTEN IN THE LABLE USING BRIQUETS 67-07 M04-73775
EFFECT OF COBALT ON THE TEMPERING CHARACTERISTICS OF MEDIUM-CARBON STEELS 67-07 M10-73877
PROPERTIES OF ALLOY STEELS PRODUCED IN A BASIC OXYGEN LD FURNACE. PT. 3. THE PRODUCTION OF ALLOY STEELS IN A BASIC OXYGEN FURNACE 67-07 M17-72551
EFFECT OF BORON ON STRUCTURE AND PROPERTIES OF 35GL STEEL 67-07 M17-74042
INVESTIGATION OF NIOBIUM CONTAINING STRUCTURAL STEEL 67-08 M17-75772
HARDENING AND SOFTENING OF NICKEL ALLOYS CONTAINING ALUMINUM OXIDE 67-08 M17-76010
INFLUENCE OF SMALL AMOUNTS OF CERIUM, IRON, NICKEL, AND COBALT ON THE MECHANICAL PROPERTIES AND ELECTRICAL CONDUCTIVITY OF ALUMINUM 67-08 M17-76128
INFLUENCE OF A SMALL ADDITION OF URANIUM ON THE MECHANICAL AND MAGNETIC PROPERTIES OF A 50 PER CENT NI-FE-NI ALLOY 67-08 M17-76233
ALLOYING STEEL WITH TUNGSTEN IN THE LADLE USING BRIQUETS 67-09 M04-76538
EFFECTS OF COPPER ON THE MECHANICAL PROPERTIES OF IRON 67-09 M17-76804
EFFECTS OF ALLOYING ELEMENTS ON THE PROPERTIES OF CHROMANSIL-TYPE STEELS 67-09 M17-76969
EFFECTS OF INOCULANTS ON THE MECHANICAL AND TECHNOLOGICAL PROPERTIES OF ALLOY STEELS 67-09 M17-76983
INFLUENCE OF ALLOYING ELEMENTS ON PROPERTIES OF STRUCTURAL CR-MN STEELS 67-09 M17-77406
INFLUENCE OF RARE EARTH ELEMENTS ON THE PROPERTIES OF AUSTENITIC CR-NI STEEL 67-09 M17-77414
IMPROVEMENT OF LOW-ALLOY HEAT RESISTING STEELS 67-09 M17-77585
STRENGTH AND TOUGHNESS OF CAST STEEL 67-09 M17-78076
EFFECTS OF RARE EARTH METALS ON THE QUALITY OF STRUCTURAL STEEL 67-10 M17-78375
NEW AUSTENITIC STAINLESS STEELS 67-10 M17-78478
EFFECTS OF MISCH METAL ADDITIONS ON THE MACHINABILITY AND MECHANICAL PROPERTIES OF ALUMINIUM ALLOYS 67-10 M17-78606
SOLUTION, PRECIPITATION AND HARDENING EFFECT OF NIOBIUM ON UNALLOYED STEEL 67-10 M17-78692
INVESTIGATION OF THE EFFECTS OF RARE EARTH ELEMENTS ON THE PROPERTIES OF 12KH1 MF BOILER STEEL 67-10 M17-78954
IMPROVING THE STRUCTURE AND PROPERTIES OF 10KH16N25M6 STEEL BY ADDING RARE EARTH METALS TO IT 67-10 M17-78964
DUCTILE ZINC-COPPER-TITANIUM ALLOYS. PT. 2 67-10 M17-79652
INFLUENCE OF NIOBIUM, TITANIUM, AND BORON ON HIGH-TEMPERATURE PROPERTIES OF 12 PER CENT CR-2 PER CENT W-V STEEL 67-10 M17-79772
ANISOTROPY OF MECHANICAL PROPERTIES IN TUBES AS ONE OF THE FACTORS IN THE SELECTION OF A HOT DEFORMATION METHOD 67-11 M07-80861
EFFECT OF ZIRCONIUM ON THE PROPERTIES OF LOW-CARBON ARSENOUS STEEL 67-11 M17-80863
WAYS OF INCREASING THE STRENGTH OF STRUCTURAL STEELS 67-11 M17-80980
EFFECT OF BORON ON THE STRUCTURE AND MECHANICAL PROPERTIES OF NICKEL 67-11 M17-81167
IMPROVEMENT IN QUALITY OF OPEN-HEARTH STEEL BY TREATMENT WITH ALLOYS OF RARE-EARTH METALS 67-12 M04-82401
EFFECT OF CHLORIDE SALTS OF ALKALI AND ALKALI-EARTH ELEMENTS ON THE PROPERTIES OF 15KH1M1FL STEEL ELEMENTS ON THE PROPERTIES 67-12 M04-83028
COMPARATIVE EFFECTIVENESS OF BORON-CONTAINING INOCULANTS 67-12 M06-81988
VANADIUM STEEL FOR CASTINGS 67-12 M06-83017
PRECIPITATION STRENGTHENING OF FE-6 AT . PER CENT MO 67-12 M10-83052
EFFECT OF SB, BI AND B ON THE PROPERTIES OF MALLEABLE CAST IRON 67-12 M17-81987
EFFECT OF NIOBIUM ON THE STRUCTURE AND PROPERTIES OF HYPEREUTECTOID STEEL 67-12 M17-82091
THE EFFECT OF COBALT, NICKEL AND COPPER ON THE STRUCTURE AND THE MECHANICAL PROPERTIES OF SPHEROIDAL GRAPHITE CAST IRON 67-12 M17-82919
EFFECT OF SMALL COLUMBIUM ADDITIONS ON THE PROPERTIES OF SOME AUSTENITIC STAINLESS STEELS 67-12 M17-83046
SAP-TYPE ALLOYS SOLID SOLUTION STRENGTHENED WITH MAGNESIUM 67-12 M17-83048

MECHANICAL PROPERTIES, ALLOYING EFFECTS
CONTRIBUTION TO THE STUDY OF THE INFLUENCE OF AS ON
CONTRIBUTION TO THE STUDY OF THE INFLUENCE OF AS ON THE MECHANICAL PROPERTIES OF STEEL
THE MECHANICAL PROPERTIES OF STEEL 67-12 M17-83580

MECHANICAL PROPERTIES, ANISOTROPY
A METHOD OF DETERMINING PLASTIC ANISOTROPY OF SHEET METAL 67-04 M17-67091
THE DEPENDENCE OF THE ANISOTROPY OF PROPERTIES IN ZIRCONIUM STEELS ON HEAT TREATMENT 67-05 M17-68449
DEFORMATION AND CONTROLLED ANNEALING OF U-S3M --CU-3 PER CENT SI-1 PER CENT MN-- ALLOY SHEET

67-12 M17-83501

MECHANICAL PROPERTIES, ATOMIC STRUCTURE
THE ROLE OF ELECTRON CONFIGURATIONS IN NONMETALS 67-03 M17-65340

MECHANICAL PROPERTIES, COMPOSITION EFFECTS
METALLURGICAL IMPROVEMENT OF THE QUALITY OF COLD ROLLED D. D. Q. RIMMED STEEL SHEET 67-02 M17-58845
EFFECT OF OXYGEN ON THE MECHANICAL PROPERTIES AND HIGH-TEMPERATURE CORROSION RESISTANCE OF AT3 AND AT8 ALLOYS 67-02 M18-59699
EFFECT OF CHEMICAL COMPOSITION AND TEMPERING ON THE MECHANICAL PROPERTIES OF QUENCHED STRUCTURAL STEELS 67-04 M17-66952
EFFECTS OF THE CHEMICAL COMPOSITION OF GRADE 15KP STEEL, AND THE ROLLING TECHNOLOGY, ON THE MECHANICAL PROPERTIES AND MICROSTRUCTURE OF HOT ROLLED SHEET 67-06 M17-70218
EFFECT OF BASICITY ON THE PROPERTIES OF ORE SINTER 67-08 M09-75589
THE UNWELDABLE CLASS A-1V --B45G2S-- BESSEMER STEEL 67-09 M17-76972
THE IMPORTANCE OF THE INTERNAL STRESS IN GRAY AND SPHEROLITIC CAST IRON 67-11 M17-80498
FACTORS OF THE ANTIFRICTION PROPERTIES OF GRAPHITIZED STEEL 67-12 M17-83034

MECHANICAL PROPERTIES, COOLING EFFECTS
ISOTHERMAL QUENCHING OF CAST IRON WITH GLOBULAR GRAPHITE 67-08 M17-76033
THE QUENCHING AND SHOCK WAVE TREATMENT OF ALUMINUM ALLOYS 67-10 M17-78357

MECHANICAL PROPERTIES, DIFFUSION EFFECTS
WHY METALS ARE SO WEAK 67-02 M17-61800

MECHANICAL PROPERTIES, HEATING EFFECTS
INFLUENCE OF THE CONDITIONS OF PRODUCTION OF HAFNIUM ON ITS MECHANICAL PROPERTIES AND CORROSION RESISTANCE 67-02 M03-60657
THE PROPERTIES OF LOW-CARBON MARTENSITE TEST METHODS AND STEELS UTILIZED 67-02 M17-61696
THE PROPERTIES OF LOW-CARBON MARTENSITE. RESULTS 67-02 M17-61697
MECHANICAL PROPERTIES AND STRUCTURE OF COLD-EXTRUDED, ALUMINUM-ALLOY TUBE AND ROD 67-04 M17-67533
COMPOSITION AND PROPERTIES OF ALLOYED ALUMINUM WIRE FOR ELECTRIC CONDUCTORS 67-04 M17-68029
IMPROVING THE STRENGTH OF STRUCTURAL STEEL BY HEAT TREATMENT 67-05 M10-68331
HARDENING TREATMENT FOR HEAT RESISTANT ALLOYS 67-05 M17-68352
STRUCTURE, PHASE COMPOSITION, AND MECHANICAL PROPERTIES OF 12KH2MFSR STEEL 67-05 M17-68366
CARBURIZED NICKEL ALLOY STEELS 67-06 M01-70643
EFFECTS OF THE HEATING CONDITIONS BEFORE QUENCHING AND THE DEGREE OF COLD DEFORMATION AFTER QUENCHING ON THE MECHANICAL PROPERTIES AND STRUCTURE OF EXTRUDED VAD23 ALLOY SECTIONS 67-06 M17-70352
ANNEALING TRIALS ON STEEL WIRE IN VARIOUS FURNACE ATMOSPHERES 67-07 M10-72716
INCREASING TENSILE STRENGTH OF STRUCTURAL STEEL BY MEANS OF HEAT TREATMENT 67-07 M10-72859
RESEARCH INTO HIGH-STRENGTH STEEL CASTINGS 67-07 M10-72991
WELDING DRILL PIPES OF HIGH-STRENGTH STEELS 67-08 M11-75408
INFLUENCE OF THE STEEL-MAKING TECHNIQUE ON THE MECHANICAL PROPERTIES OF ELECTROSLAG WELDED STEEL 67-08 M17-74766
INFLUENCE OF TEMPERING ON THE MECHANICAL PROPERTIES AND THE FINE STRUCTURE OF QUENCHED AND DEFORMED STEELS 67-08 M17-76026
ACCELERATED ANNEALING CONDITIONS AND THE MECHANICAL PROPERTIES OF INOCULATED MALLEABLE CAST IRON 67-09 M10-76979
THE EFFECT OF THE MICROSTRUCTURE OF HARDENED AND TEMPERED STEELS ON BEHAVIOR IN DYNAMIC STRESSING 67-09 M17-77884
VARIATION OF MECHANICAL PROPERTIES OF CARBON STEEL DUE TO AGING 67-10 M10-79856
STRUCTURE AND MECHANICAL PROPERTIES OF IRON-NICKEL-BASE ALLOYS CONTAINING 12 AT. PER CENT ALUMINIUM AFTER VARIOUS HEAT TREATMENTS 67-10 M14-78689
EFFECT OF ELECTROTHERMAL TREATMENT ON THE MECHANICAL PROPERTIES OF COLD WORKED STEEL 67-10 M17-78823
STRENGTHENING OF ANNEALED CUPRONICKELS BY CHROMIUM 67-12 M10-83057
THE NATURE OF PROCESSES DURING TEMPERING OF COLD DEFORMED MEDIUM CARBON STEEL 67-12 M10-83441
THE WELDING OF DRILL TUBES MADE OF HIGH TENSILE STEELS 67-12 M11-82029

MECHANICAL PROPERTIES, IMPURITY EFFECTS
EFFECT OF NONMETALLIC INCLUSIONS ON THE STRENGTH OF QUENCHED SHKH15 STEEL DURING HYDROGENATION 67-01 M17-57665
EFFECT OF METAL IMPURITIES ON MECHANICAL PROPERTIES OF NICKEL IN TENSION 67-02 M17-62235
INFLUENCE OF IMPURITIES ON ANISOTROPY OF MECHANICAL PROPERTIES IN STEELS 67-04 M17-66356
INFLUENCE OF IMPURITIES AND ALLOYING ADDITIONS ON BRITTLE FRACTURE OF HIGH PURITY IRON 67-04 M17-66363
MECHANICAL PROPERTIES OF HIGH-PURITY METALS 67-04 M17-67818
THE NATURE AND EFFECTS OF EXCESS CARBON DEFECTS IN TUNGSTEN CARBIDE-COBALT ALLOYS ON MECHANICAL PROPERTIES 67-10 M09-79977
EFFECT OF GAS IMPURITIES ON THE MECHANICAL PROPERTIES OF VT6S ALLOY WELDED JOINTS 67-11 M11-80557
DEPENDENCE OF THE ANISOTROPY OF THE MECHANICAL PROPERTIES OF STEEL ON THE DEGREE OF CONTAMINATION WITH NONMETALLIC INCLUSIONS 67-11 M17-80958
EFFECT OF IMPURITIES AND ALLOYING ELEMENTS ON THE SUSCEPTIBILITY OF HIGH-PURITY IRON TO BRITTLE FRACTURE 67-11 M17-80965
EFFECT OF AL7-4 MELT PURITY ON QUALITY OF CASTINGS 67-12 M06-82613

MECHANICAL PROPERTIES, PRESSURE EFFECTS
THE PROPERTIES OF ALUMINIUM ALLOY CASTINGS PRODUCED BY LIQUID-METAL STAMPING 67-09 M17-78084

MECHANICAL PROPERTIES, RADIATION EFFECTS
EFFECT OF NEUTRON IRRADIATION ON THE PROPERTIES OF HIGH-ALLOY FERRITIC STEELS 67-02 M17-59555
STUDIES OF IRRADIATION EFFECTS ON SWEDISH STEELS 67-03 M17-65685
STRUCTURAL TRANSFORMATION IN A NICKEL-CHROMIUM ALLOY --80 NI/20 CR-- UNDER IRRADIATION. PT. 2 67-03 M17-65856
RADIATION DAMAGE IN SOLIDS 67-04 M16-67301
STEELS IN NUCLEAR ENGINEERING 67-05 M17-69545
EFFECT OF IRRADIATION ON THE HIGH-STRAIN FATIGUE BEHAVIOUR OF A LOW-CARBON AND A LOW-ALLOY STEEL 67-06 M17-71334
MECHANISMS OF RADIATION-INDUCED MECHANICAL PROPERTY CHANGES 67-07 M17-73375
THE COMBINED EFFECTS OF TEMPERATURE AND IRRADIATION ON THE MECHANICAL PROPERTIES OF AUSTENITIC STAINLESS STEELS 67-07 M17-73386
THE EFFECT OF IRRADIATION TEMPERATURE ON THE POST-IRRADIATION STRESS-STRAIN BEHAVIOR OF STAINLESS STEEL 67-07 M17-73387
EFFECTS OF IRRADIATION ON A302-B STEEL SUBJECTED TO A MULTIAXIAL STRESS DISTRIBUTION 67-07 M17-73392
IRRADIATION EFFECTS ON HIGH-TEMPERATURE REACTOR STRUCTURAL METALS 67-07 M18-73381
EFFECT OF NEUTRON IRRADIATION ON MECHANICAL PROPERTIES OF MOLYBDENUM SINGLE CRYSTALS 67-09 M16-77789
THE COMBINED EFFECTS OF IRRADIATION AND A SURFACE-ACTIVE MEDIUM ON THE MECHANICAL PROPERTIES OF MONOCRYSTALS OF ZINC 67-10 M17-78963
RESEARCH INTO THE PROPERTIES OF THE ML5 CAST INDUSTRIAL ALLOY IRRADIATED WITH NEUTRONS 67-12 M17-83371

MECHANICAL PROPERTIES, SIZE EFFECTS
INFLUENCE OF GRAIN SIZE ON PROPERTIES OF AK4-1 ALLOY SHEETS 67-03 M17-65787
INFLUENCE OF PARTICLE SIZE ON PROPERTIES OF ALUMINUM POWDERS AND SEMIFINISHED PARTS OF SAP 67-12 M09-82213

MECHANICAL PROPERTIES, STANDARDS
A RATIONAL APPROACH TO STANDARDS FOR WELDED CONSTRUCTION. PT. 2 67-08 M17-74799

MECHANICAL PROPERTIES, STRESS EFFECTS
MECHANICAL PROPERTIES OF TUBES OF D1 AL ALLOY 67-04 M17-66372
A SURVEY OF SOME RECENT BRITISH WORK ON THE BEHAVIOR OF WARSHIP STRUCTURES 67-04 M17-66710
AN ANALYSIS OF FAILURES IN SPACECRAFT 67-05 M17-68682

TESTING TECHNIQUES AT IMPACT RATES OF STRAIN
67-05 M17-69158
INFLUENCE OF AUSROLLING ON MECHANICAL PROPERTIES OF LOW-CARBON AND LOW-ALLOY STEELS
67-06 M17-70063
PROPERTIES OF 55KHGR STEEL AFTER AUSFORMING AND REPEATED QUENCHING 67-06 M17-70070
EFFECT OF THERMOMECHANICAL TREATMENT ON THE MECHANICAL PROPERTIES OF LOW-CARBON AND LOW-ALLOY STEELS 67-10 M17-78809
PROPERTIES OF 55KHGR STEEL AFTER HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT AND REPEATED QUENCHING
67-10 M17-78816
MECHANICAL PROPERTIES OF PIPES OF THE D1 ALLOY
67-11 M17-80974

MECHANICAL PROPERTIES, TEMPERATURE EFFECTS
EVALUATION OF MATERIALS FOR CRYOGENIC PROPELLANT TANKAGE 67-01 M17-58344
THE PROPERTIES OF ALUMINUM DIE CASTING ALLOYS AT ELEVATED TEMPERATURES 67-02 M17-59733
TEMPERATURE DEPENDENCE OF MECHANICAL PROPERTIES OF AUSTENITIC-MARTENSITIC STEELS
67-03 M17-65967
MECHANICAL PROPERTIES OF METALS FOR CRYOGENIC SERVICE STRENGTH TO DENSITY RATIO OF METALS FOR CRYOGENIC SERVICE 67-05 M17-68680
A MECHANICAL PROPERTY EVALUATION OF BE-38 PER CENT AL ALLOY FROM -320 TO 800 F 67-05 M17-69449
DEVELOPMENT OF NIOBIUM-CONTAINING COBALT-BASE AIR-CASTING ALLOYS FOR HIGH TEMPERATURES
67-05 M17-69564
MECHANICAL CHARACTERISTICS OF CERTAIN COPPER ALLOYS CAST AT VERY LOW TEMPERATURES
67-06 M17-72152
INVESTIGATION OF STEELS SUSCEPTIBLE TO SECONDARY HARDENING AND HARDENING BY THERMOMECHANICAL TREATMENT 67-08 M17-76027
THERMOMECHANICAL TREATMENT OF STEEL DURING ISOTHERMAL TRANSFORMATION OF SUPER-COOLED AUSTENITE 67-09 M10-77422
ELEVATED TEMPERATURE PROPERTIES OF NICKEL ALLOY STEELS 67-10 M17-79442
CONTRIBUTION TO THE STUDY OF U ALLOYS CONTAINING SMALL AMOUNTS OF VANADIUM 67-12 M14-83517

MECHANICAL PROPERTIES, WELDING EFFECTS
RELATIONSHIP OF MECHANICAL PROPERTIES OF WELD AFFECTED ZONE OF CONSTRUCTION STEELS TO WELDING THERMAL CYCLE 67-03 M17-65046
ARC WELDING OF STEELS WITHOUT A PROTECTIVE ATMOSPHERE 67-06 M11-71818
WELDED MEDIUM TENSILE STEEL IN MURRAY 1 PIPELINE
67-06 M17-71590
STRENGTH PROPERTIES OF ELECTRON BEAM WELDED ALLOYS FOR EXTREME HIGH-TEMPERATURE SERVICE
67-07 M17-72425
EFFECT OF FERRITE ON PROPERTIES OF AUSTENITIC WELD METAL 67-09 M17-77601

MECHANICAL TESTS
SEE ALSO AMSLER WEAR TEST
BEND TESTS
BRINELL HARDNESS TESTS
COMPRESSION TESTS
CREEP TESTS
DROP WEIGHT TESTS
DUCTILITY TESTS
FATIGUE TESTS
FRACTURE TESTING
HARDNESS TESTS
HYDROSTATIC TESTS
IMPACT TESTS
KNOOP HARDNESS TESTS
PLASTICITY TESTS
ROCKWELL HARDNESS TESTS
RUPTURE TESTS
SHEAR TESTS
STIFFNESS TESTS
STRESS RELAXATION TESTS
TENSION TESTS
TORSION TESTS
WEAR TESTS
MECHANICAL BEHAVIOR OF ALUMINUM STRAINED WITH IMPACT LOADING 67-02 M17-59125
THE ELASTIC BEHAVIOR OF GRAY CAST IRON. PT. 2. THEORY 67-02 M17-60026
EFFECT OF ADDITIONS OF ALUMINUM ON PROPERTIES OF ST. 5 SEMIKILLED STEEL 67-04 M17-67605
HIGH ENERGY RATE FORGING OF TI-6AL-4V ALLOY
67-05 M08-69740
INVESTIGATION OF ADHESIVELY BONDED TUBE JOINTS OF ALUMINUM 67-05 M11-69034
CRYOGENICS--APPLICATION OF AL ALLOYS, THEIR MECHANICAL PROPERTIES AND METHODS OF TESTING THEM
67-05 M17-69700
UNIQUE TESTING TECHNIQUES FOR DEVELOPING DESIGN CRITERIA FOR THE SST 67-06 M17-70129
AN ABRASION TEST FOR USE IN AGRICULTURAL ENGINEERING 67-07 M19-74251
DEVICE FOR DETERMINING THE CHARACTERISTICS OF ELASTICITY OF METALS IN THE TEMPERATURE RANGE PLUS 20 TO MINUS 253 C 67-08 M17-74537
LOW-TEMPERATURE DEFORMATION TECHNIQUES
67-08 M17-74698
THE TESTING OF SHEET METAL FOR PRESS-WORK
67-09 M08-77512
THE TESTING OF SHEET METAL FOR FABRICATION PROPERTIES 67-09 M17-77506
MEASUREMENT OF NORMAL PLASTIC ANISOTROPY IN SHEET METAL 67-09 M17-77509
A CRITICAL STUDY OF THE ROBERTSON TEST --CRACK ARREST TEST-- 67-09 M17-78041
THE BEHAVIOR OF MATERIALS DURING FUNDAMENTAL TESTING AND PRACTICAL APPLICATIONS
67-10 M17-78639
AN INVESTIGATION OF THE DYNAMIC BEHAVIOR OF AN ANNEALED LOW CARBON STEEL BY MEANS OF STRESS PULSE AMPLIFICATION 67-10 M17-79308
EFFECT OF PRESTRESSING ON THE LIMIT OF ACCOMMODATION. NOTE ON AUSTENITIC STEEL
67-12 M17-83103

MECHANICAL TWINNING
TWINNING MODES IN THE HCP ZETA PHASES AG-AL, AG-SN AND AG-SB 67-02 M13-58956
INFLUENCE OF DEFORMATION RATE AND DEFORMATION DEGREE ON TWINNING IN TITANIUM
67-02 M13-61224
SUPERCONDUCTING FLUXLINE PINNING BY TWIN BOUNDARIES
67-02 M15-61536
THE PLASTIC DEFORMATION AND FRACTURE OF IRON-3 PER CENT SILICON IN THE TEMPERATURE RANGE 295 TO 473 K 67-02 M17-58957
MICROHARDNESS ANISOTROPY, SLIP, AND TWINNING IN MO2C SINGLE CRYSTALS 67-02 M17-59437
INFLUENCE OF STRAIGHTENING ON TEXTURE AND MECHANICAL PROPERTIES OF MA2-1 MG ALLOY PLATES
67-02 M17-59768
SURFACE DISLOCATIONS AND THE GROWTH OF DEFORMATION TWINS 67-02 M17-60648
CHARACTERISTICS OF PLASTIC DEFORMATION OF INDIUM AND ITS ALLOYS 67-02 M17-62086
MECHANICAL TWINNING IN COLD-ROLLED SILVER SINGLE CRYSTALS 67-03 M13-65231
DEFORMATION TWINNING IN AGED CU-4 PER CENT TI ALLOY
67-03 M13-65641
THE RATE OF TWIN LAYER GROWTH IN BISMUTH SINGLE CRYSTALS 67-03 M14-65228
TWINNING DEFORMATION IN IRON AT 4 K
67-03 M17-65370
ON THE GEOMETRY OF THE FORMATION OF ELECTRON DIFFRACTION PATTERNS FROM CRYSTALS OF MARTENSITE WITH FINE TWINS 67-04 M13-67392
FORMATION OF BRITTLE CRACKS IN STEEL DURING TWINNING 67-04 M17-66491
DEFORMATION TWINNING IN SHOCK-LOADED PEARLITE
67-04 M17-66539
DYNAMIC PROPAGATION OF DEFORMATION TWINS IN IRON SINGLE CRYSTALS 67-04 M17-67475
A DEFORMATION TWIN KINKED AT AN ANGLE OF 120 DEGREES OBSERVED IN ALPHA-IRON
67-04 M17-67485
USE OF THE DIFFRACTION CONTRAST METHOD FOR INVESTIGATING CRYSTAL DEFECTS
67-05 M13-69626
LOCAL STRAINS DURING INTERACTION OF SLIP BANDS AND TWINS WITH BARRIERS 67-05 M13-69651
ON THE HARDNESS CHANGE OF FERROUS MARTENSITE BY DEFORMATION 67-05 M17-69867
TWINNING AND SOME ASSOCIATED DIFFRACTION EFFECTS IN CUBIC AND HEXAGONAL METALS. PT. 1. SELECTION RULES FOR TWINNING IN FCC, BCC AND HCP LATTICES
67-06 M13-71610
TWINNING AND SOME ASSOCIATED DIFFRACTION EFFECTS IN CUBIC AND HEXAGONAL METALS. PT. 2. DOUBLE DIFFRACTION 67-06 M13-71611
DIRECT OBSERVATION OF GROWTH OF DEFORMATION TWINS IN FE-4.5 PER CENT SI CRYSTALS
67-06 M13-72149
A CINEMATOGRAPHIC STUDY OF THE MASSIVE TRANSFORMATION IN CU-GA ALLOYS

MECHANICAL TWINNING
67-06 M14-70403
ATOM MOVEMENTS DURING --1011-- TWINNING
67-06 M14-70445
REMARKS ON THE NUCLEATION OF MECHANICAL TWINS
67-06 M17-72242
ATOMIC STRUCTURE OF PLATINUM CRYSTALS ELECTROLYTICALLY OVERGROWN ON FIELD-ION MICROSCOPE TIPS 67-07 M13-72630
THE ROLE OF STACKING FAULTS IN SOME PROBLEMS OF GLIDE AND TWINNING IN CUBIC METALS
67-07 M13-73056
THE EFFECT OF SOLUTE ON SLIP AND MECHANICAL TWINNING IN IRON ALLOYS 67-07 M13-73060
TWINNING STRESS IN PRESTRAINED IRON SINGLE CRYSTALS
67-08 M17-75052
INFLUENCE OF STRAIGHTENING ON THE TEXTURE AND MECHANICAL PROPERTIES OF SHEETS OF THE MA2-1 ALLOY 67-08 M17-76126
MECHANICAL TWINNING, STRESS EFFECTS
STRESS AND DELAY TIME FOR THE APPEARANCE OF TWINNING DEFORMATION IN IRON SINGLE CRYSTALS
67-06 M17-71734
MECHANICS
SEE AERODYNAMICS
FLUID DYNAMICS
GAS DYNAMICS
HYDROMECHANICS
KINETICS
WAVE MECHANICS
MECHANIZATION
MECHANIZED MALLEABLE IRON FOUNDRY
67-07 M06-73090
MELT TRANSFER
A NEW APPROACH TO BULK MELTING OF ALUMINUM
67-08 M03-74651
DISSOLUTION OF COMMERCIALLY AVAILABLE SILICON NITRIDE INTO LIQUID IRON 67-08 M14-75305
MELTERS
SEE MELTING FURNACES
MELTING
SEE ALSO CONSUMABLE ELECTRODE PROCESSES
CONTACT MELTING
ELECTRIC ARC MELTING
ELECTRON BEAM MELTING
INDUCTION MELTING
LEVITATION MELTING
MULTISTAGE MELTING
OXYGEN MELTING
PLASMA ARC MELTING
SKULL MELTING
VACUUM MELTING
ZONE MELTING
EXTRACTION METALLURGY 67-01 M01-58663
PRODUCING SI-AL ALLOY FROM UNBENEFICIATED KAOLINS
67-01 M03-57276
MELTING OF LOW-TEMPERATURE RESISTANT AUSTENITIC SPHEROIDAL CAST IRON 67-01 M06-57200
MELTING AND OVERHEATING OF IRON IN A GAS SHAFT FURNACE 67-01 M06-57322
METALLOTHERMAL PRODUCTION OF ALLOYS WITH A HIGH CONTENT OF ALUMINUM 67-02 M03-59550
METHOD FOR PROCESSING VANADIUM CONTAINING NITROGEN
67-02 M03-59551
CARBOTHERMAL PRODUCTION OF LEAD-CALCIUM ALLOYS
67-02 M03-59574
EFFECT OF REMELTING ALUMINUM ON ITS SODIUM CONTENT
67-02 M03-61290
WAYS OF REPLACING COKE BY NATURAL GAS WHEN SHAFT FURNACE SMELTING OXIDIZED NICKEL ORES
67-02 M03-62217
REDUCTION OF PRODUCTION COST IN MELTING STAINLESS STEEL 67-02 M04-59568
EFFECT OF SLAG BASICITY AND SILICON CONTENT IN FERROMANGANESE ON THE TECHNICAL AND ECONOMIC EFFICIENCY OF BLAST FURNACE OPERATION
67-02 M04-59571
IMPROVED QUALITY INGOT SURFACE FROM EI654 STEEL
67-02 M04-59593
PRODUCTION OF EXOTHERMIC FERROALLOYS
67-02 M04-59695
THERMAL CALCULATION RELATED TO ALUMINOTHERMAL MELTING OF FERROSILICOZIRCONIUM
67-02 M04-60094
INDUSTRIAL INTRODUCTION OF ALUMINOTHERMAL PRODUCTION OF SILICOZIRCONIUM
67-02 M04-60095
TECHNIQUES FOR MELTING LOW-SILICON FERRONIOBIUM
67-02 M04-60096
NATURAL GAS FOR MELTING CAST IRON
67-02 M04-61688
ACCUMULATION OF OXIDES IN ALUMINUM DURING MELTING AND CASTING 67-02 M06-61238
KARAT GOLD ALLOYS FOR JEWELRY 67-02 M14-58914
EXPERIMENTAL STUDY OF BODY MELTING IN A FUSED LIQUID SYSTEM 67-02 M15-58858
PRODUCTION OF FERROMANGANESE FROM FLUXED SINTER OBTAINED FROM A MIXTURE OF MANGANESE CONCENTRATE AND MANGANESE CONVERTER SLAG 67-03 M04-65962
ANNUAL REVIEW OF CAST IRON WITH FLAKE GRAPHITE. PT. 3
67-03 M06-65354
KINETICS OF MELTING OF STEEL SCRAP IN LARGE OPEN-HEARTH FURNACES 67-04 M04-66205
ACCUMULATION OF OXIDES IN ALUMINUM DURING MELTING AND POURING 67-04 M06-68099
HEAT WORK OF A REVERBERATORY FURNACE USING PREHEATED AIR BLAST 67-05 M03-69530
MELTING PRACTICE FOR HIGH CARBON STEEL MADE BY THE BASIC OXYGEN LD PROCESS 67-05 M04-66729
ELECTROSLAG REMELTING OF EI481 CR-MN-NI HEAT RESISTANT STEEL 67-05 M04-69685
ECONOMICAL MELTING IN CRUCIBLES, FACTORS AFFECTING THE LIFE OF CRUCIBLES 67-05 M06-68521
THE FUNDAMENTALS OF THE DIE CASTING OF MG
67-05 M06-68599
A NEW LARGE-SCALE INSTALLATION FOR THE MELTING AND CASTING OF OFHC COPPER IN A YUGOSLAV COPPER MILL
67-05 M06-69310
THE ELECTRON EMISSION DURING THE MELTING AND SOLIDIFICATION OF METALS 67-05 M15-69190
INVESTIGATION OF THE HEAT CONDUCTIVITY OF CERTAIN METALS ON TRANSITION FROM THE SOLID TO THE LIQUID STATE 67-05 M15-69394
POSSIBILITY OF USING CARBONATE ORES TO OBTAIN FERROMANGANESE 67-06 M02-70157
ALUMINIUM MELTING IN BULK 67-06 M03-70707
THE MOST COMMON ERRORS IN CUPOLA MELTING
67-06 M06-70672
INTEGRATED MELTING AND MOLDING AT WILLIAM LEE
67-06 M06-71039
THE CONTROL OF DISSOLVED GASES, FACTOR OF QUALITY IN LIGHT ALLOY FOUNDING 67-06 M06-72153
MELTING AND RECRYSTALLIZATION OF WELDED SPOT PRODUCED BY PULSATION ARC WELDING
67-06 M11-72306
THERMOKINETICS OF PROCESSES AT THE INTERFACE OF THE SOLID AND GASEOUS PHASES OF ALLOYS
67-06 M14-70979
EFFECT OF FORM ON IRON CHIP BRIQUET STRENGTH
67-07 M02-74050
MELTING MAGNESIUM CHIPS AND MAGNESIUM ALLOYS WITH FL5 FLUX 67-07 M03-73421
MELTING BEHAVIOR OF CARBON-CONTAINING IRON SPONGE IN A ROTARY MELTING FURNACE 67-07 M04-73267
VACUUM DEGASSED VS AIR MELTED STEELS--NO CLEAR-CUT WINNER 67-07 M04-73332
ELECTROSLAG REMELTING OF CHROMIUM-MANGANESE-NICKEL HEAT-RESISTING EI481 STEEL 67-07 M04-74071
EXPERIENCE OF A NEW TECHNOLOGY FOR REMELTING BALL-BEARING STEEL 67-07 M04-74140
MELTING AND SUPERHEATING IRON IN A GAS CUPOLA
67-07 M06-73044
USING HOT BRIQUETTED IRON CHIPS IN CUPOLA MELTING
67-07 M06-74049
A DISORDER MODEL OF MELTING AND MELTS
67-07 M14-72940
THE PHENOMENON OF SELENIUM VITRIFICATION
67-07 M14-72946
FABRICATION OF CHROMIUM-BASE ALLOYS
67-08 M01-74515
MANGANESE LOSS IN CUPOLA MELTING
67-08 M06-74542
MELTING TREATMENT IN THE GRAVITY DIECASTING FOUNDRY
67-08 M06-75640
MANUFACTURE OF SI-CA USING THE SILICOTHERMAL METHOD 67-09 M03-76565
PROCESS CONTROL IN THE REMELTING PROCESS IN A 200-KW ELECTRON BEAM MULTICHAMBER FURNACE
67-09 M04-77218
CARBON REDUCTION OF SILICON AND CALCIUM FROM THEIR OXIDES 67-09 M04-77268
THE MELTING OF STEEL WITH OIL/OXYGEN BURNERS IN A 10-TON CIRCULAR FURNACE 67-09 M04-77498
ALLOYS FOR STAINLESS STEEL 67-09 M04-77581
MEASUREMENTS OF MELTING CONDITIONS IN CUPOLA BY THE USE OF GAMMA-RAY LEVEL METER
67-09 M04-77809
PRODUCTION AND CONTINUOUS CASTING OF BOILER PLATE STEEL 67-10 M04-79665

ELECTRON BEAMS ON THE MOVE 67-11 M01-80767
SMELTING 75 PER CENT FERROSILICON WITH SPECIAL COKE 67-11 M04-81313
MELTING AND DISSOLVING MECHANISM FOR FERROCHROMIUM FED TO THE METAL THROUGH A LAYER OF SLAG 67-11 M04-81402
MANGANESE REMOVAL IN THE PRODUCTION OF TRANSFORMER STEEL 67-11 M04-81653
THE MELTING AND SOLIDIFICATION OF PULSED ARC SPOT WELDS 67-11 M11-81578
DISSOLUTION OF STEEL CYLINDER INTO LIQUID FE-C ALLOY 67-11 M14-80749
OBSERVATION OF SOLIDIFICATION AND MELTING PHENOMENA IN METALS USING THE ELECTRON MICROSCOPE 67-11 M14-81275
METALLURGY OF CU FOR ELECTRICAL USE 67-12 M03-82896
MATERIALS BALANCE AND HEAT BALANCE FOR THE ALUMINIUM REDUCTION OF FERRO-MOLYBDENUM 67-12 M04-82404
THE REMELTING OF STEEL IN VACUA AND PROTECTIVE MEDIA 67-12 M04-83344
PHENOMENOLOGICAL THERMODYNAMICS OF MELTING AND SOLIDIFICATION 67-12 M15-82502
ELASTIC AND FATIGUE PROPERTIES OF VACUUM REMELTED VERSES AIR-MELTED NI-SPAN-C ALLOY 902 FOR BOURDON TUBES 67-12 M17-83251

MELTING, ALLOYING EFFECTS
EXPERIENCE WITH LOW-MELTING CUC2 IN CUPOLAS 67-05 M06-68520
PRODUCTION OF TRANSITION CU-MN-FE ALLOYS ASSISTED BY FERROMANGANESE 67-11 M03-81613

MELTING, PRESSURE EFFECTS
EFFECT OF GAS PRESSURE CONDITIONS IN THE OPEN-HEARTH MELTING CHAMBER ON RATE OF HEATING METAL AND ON DEVELOPMENT OF CERTAIN REACTIONS 67-07 M04-74134

MELTING, QUALITY CONTROL
CONTROL OF PRODUCT QUALITY IN THE WROUGHT ALUMINUM INDUSTRY 67-07 M19-74009

MELTING FURNACES
SEE ALSO CHANNEL INDUCTION FURNACES
CORELESS INDUCTION FURNACES
CRUCIBLE FURNACES
CUPOLAS
ELECTRON BEAM FURNACES
PLASMA ARC FURNACES
REVERBERATORY FURNACES
ROTARY MELTING FURNACES
TILTING OPENHEARTH FURNACES
GAS CONTENT OF MEDIUM-CARBON STEEL 67-01 M04-57474
THERMAL BALANCE OF A SHORT-DRUM FURNACE USED FOR MELTING LEAD 67-02 M03-58872
MODERN IRON MELTING TECHNIQUES AND THEIR APPLICATION 67-03 M06-65003
IMPALCO WORKS IN SOUTH WALES HAS 6 MILLION POUNDS UP-TO-DATE LOOK 67-04 M07-66136
GAS CONTENT OF MEDIUM-CARBON STEELS 67-06 M04-70762
AUTOMATIC METAL TRANSPORT TO AL DIECASTING MACHINES 67-06 M06-71095
ELECTRIC ARC FURNACES FOR SMALL FOUNDRIES, INDUSTRIAL RESEARCH STATIONS, AND LABORATORIES IN UNIVERSITIES AND INSTITUTES OF TECHNOLOGY 67-06 M06-71416
MELTING, REMELTING, DEGASSING, FLUXING AND HANDLING 67-08 M03-74838
MATERIAL AND HEAT BALANCES IN THE PRODUCTION OF CARBONACEOUS FERROCHROMIUM IN A CLOSED FURNACE 67-12 M04-81868

MELTING POINTS
TENSILE TESTING OF ALLOYS IN THE MELTING TEMPERATURE RANGE 67-01 M17-57465
THE RADIATION MEASUREMENTS OF THE FREEZING POINT OF GOLD 67-02 M15-60919
L2TE5 TELLURIDES OF RARE EARTH METALS 67-04 M14-66341
MELTING POINT OF ALUMINUM OXIDE AND RELATED OBSERVATIONS 67-04 M15-66666
MICROMETHOD FOR DETERMINING THE FUSION POINTS OF REFRACTORY COMPOUNDS 67-05 M15-68705
MELTING POINTS OF ZRC-HFC, TAC-ZRC AND TAC-HFC SYSTEMS 67-05 M15-68710
HIGH-TEMPERATURE CHEMICAL STABILITY 67-05 M15-68996
REGULARITIES OF THERMAL STABILITY OF OXIDES OF TRANSITION METALS 67-07 M15-72511
STABILITY OF ELECTRONIC CONFIGURATIONS 67-07 M16-72509
A PIRANI FURNACE FOR THE PRECISION DETERMINATION OF THE MELTING TEMPERATURES OF REFRACTORY METALLIC SUBSTANCES 67-08 M15-74935
PREPARATION AND PROPERTIES OF SOME GROUPS V AND VI COMPOUNDS OF PLUTONIUM 67-09 M15-76343
REGULARITIES GOVERNING THE THERMAL STABILITY OF OXIDES OF THE TRANSITION METALS 67-11 M15-80897
STABILITY OF ELECTRON CONFIGURATIONS 67-11 M16-80895
SCRAP MELTING IN THE OXYGEN CONVERTER PROCESS 67-12 M04-81863
PHASE COMPOSITION OF OPENHEARTH SLAGS FORMING DURING SCRAP-ORE CONVERSION OF LOW-MANGANESE IRONS 67-12 M04-81865
WORK WITH THE HIGH-TEMPERATURE MICROSCOPE 67-12 M13-83397
EFFECT OF ENVIRONMENT UPON THE MELTING POINT OF AL2O3 67-12 M15-82391
A MICROMETHOD FOR DETERMINING THE MELTING POINTS OF REFRACTORY COMPOUNDS 67-12 M15-82681
MELTING POINT IN SYSTEMS ZRC-HFC, TAC-ZRC, TAC-HFC 67-12 M15-82686

MELTING POINTS, PRESSURE EFFECTS
MELTING CURVES OF COPPER, SILVER, GOLD, AND PLATINUM TO 70 KBAR 67-12 M15-82527

MELTS, ACTIVITY /CHEMICAL/
METALLURGICAL STUDIES ON OXYGEN STEEL MELTS TOP-BLOWN FROM HIGH-PHOSPHORUS PIG IRON 67-09 M04-76503

MELTS, ALLOYING
BOOSTING LIGHT METAL PROPERTIES WITH BERYLLIUM 67-06 M01-71010

MELTS, CHEMICAL ANALYSIS
LABELLING OF METALLIC MATERIALS WITH RADIOACTIVE TRACER ELEMENTS 67-06 M19-70837
DIRECT ELECTROCHEMICAL DETERMINATION OF THE OXYGEN CONTENT OF LIQUID METALS 67-07 M19-72703
THE PROBLEMS OF HIGH OXYGEN CONTENT IN LIQUID STEEL AND POSSIBLE METHODS OF CONTROL 67-07 M19-73100
A SPEEDY METHOD FOR DETERMINING THE CARBON CONTENT OF LIQUID STEEL 67-09 M19-78277

MELTS, COOLING
LIMESTONE AS A COOLANT IN THE BASIC OXYGEN PROCESS 67-03 M04-65530

MELTS, DEFECTS
MECHANISM OF FORMATION OF CARBON MONOXIDE BLOWHOLES IN INGOTS DURING SOLIDIFICATION. PT. 1. STUDY OF SOLIDIFICATION STRUCTURES OF SEMIKILLED STEEL INGOTS 67-07 M14-72572

MELTS, DIFFUSION
SOME RELATIONSHIPS BETWEEN SELFDIFFUSION AND MELTING BEHAVIOR OF METALS 67-02 M14-60881
SELF-DIFFUSION IN MOLTEN ALLOYS OF SN-SB, SN-PB AND SN-ZN 67-06 M14-70904
THE DIFFUSION OF CARBON IN LIQUID FE-C-SI AND FE-C-S ALLOYS 67-08 M14-75663

MELTS, ELECTROLYSIS
UNDULATION OF MOLTEN METAL IN ALUMINUM ELECTROLYSIS TANKS 67-04 M03-67527

MELTS, GAS ANALYSIS
A MODERN DEVICE FOR DETERMINATION OF HYDROGEN CONTENT OF ALUMINUM MELTS 67-09 M19-77075

MELTS, OXIDATION
INVESTIGATION OF THE FORMATION OF OXIDE FILMS IN IRON-MANGANESE MELTS 67-03 M18-65974

MELTS, PHASES /STATE OF MATTER/
DENDRITE STRUCTURE AND GRAIN SIZE OF UNDER COOLED MELTS 67-03 M14-65078

MELTS, PHYSICAL PROPERTIES
DENSITY OF IRON OXIDE-SILICA MELTS 67-06 M15-69943
VISCOSITY DENSITY-COMPOSITION RELATIONSHIPS FOR LIQUID PLUTONIUM-CERIUM ALLOYS 67-09 M15-76325
THE EFFECT OF ALUMINA, CALCIUM OXIDE AND ALKALI ON THE PHYSICO-CHEMICAL PROPERTIES OF IRON-MAGNESIA SILICAL MELTS 67-09 M15-77063
MISCIBILITY OF MOLTEN LITHIUM AND SODIUM 67-10 M15-79049

MELTS, REACTIONS /CHEMICAL/
CONTROLLED EUTECTICS 67-04 M14-67902

MELTS, REFINING
APPARENT ACTIVATION ENERGY OF DECARBONISATION OF FE-C MELTS 67-04 M14-66308
BEHAVIOR OF DISSOLVED OXYGEN AFTER THE ADDITION OF SILICON FOR DEOXIDATION OF STEEL. PT. 2.

MELTS
INVESTIGATION OF DISSOLVED OXYGEN AFTER THE ADDITION OF A DEOXIDANT 67-06 M04-72271
THE DEGASSING OF AL-SI ALLOY MELTS WITH LUMP TI 67-06 M06-71191
CONTRIBUTION TO THE STUDY OF SIMULTANEOUS DECARBURIZATION AND REMOVAL OF NITROGEN FROM IRON MELTS 67-07 M04-72474
MELTS, SOLUBILITY
INTERACTION OF NITROGEN WITH TYPE KH20N80 NICKEL-CHROMIUM MELTS 67-03 M14-65960
MELTS, TEMPERATURE CONTROL
MEASUREMENT OF THE TRUE TEMPERATURE BY MEANS OF RADIATION PYROMETERS AND DETERMINATION OF THE EMISSIVITY IN STEEL MELTS 67-07 M19-73286
MELTS, THERMAL MEASUREMENTS
TIPS OF THERMOCOUPLES USED TO MEASURE MOLTEN ALUMINUM TEMPERATURES 67-04 M19-67528
OPERATING EXPERIENCE WITH THE CONTINUOUS MEASUREMENT OF TEMPERATURE IN FERROUS MELTS WITH MODERN RADIATION THERMOMETERS 67-04 M19-67931
MELTS, THERMAL PROPERTIES
THERMOCHEMISTRY OF MOLTEN NICKEL OR IRON ALLOYS 67-12 M15-82402
MELTS, THERMODYNAMICS
THERMODYNAMIC PROPERTIES OF LIQUID SOLUTIONS OF THE ALUMINUM-TIN SYSTEM 67-02 M15-61715
THERMODYNAMIC PROPERTIES OF MGCL2 IN CHLORIDE MELTS 67-03 M03-65580
MELTS, VAPORIZING
EVAPORATION OF MANGANESE, COPPER AND TIN FROM MOLTEN IRON UNDER VACUUM 67-08 M15-74425
MEMORY DEVICES
SEE DATA STORAGE
MERCURY /METAL/, ADDITIVES
EXCITATION SPECTRA AND PHOTO-IONIZATION OF NEUTRAL MERCURY CENTERS IN GERMANIUM 67-09 M16-77171
MERCURY /METAL/, ALLOYING ADDITIVE
THE INFLUENCE OF ALLOYING ELEMENTS ON ALUMINUM ANODES IN SEA WATER 67-03 M18-65473
ALUMINUM GALVANIC ANODES. PT. 1 67-08 M18-75355
MERCURY /METAL/, BAND THEORY
ELECTRONIC STRUCTURE OF MERCURY 67-03 M16-65030
MERCURY /METAL/, BINARY SYSTEMS
NEW PHASE IN THE MERCURY-INDIUM SYSTEM 67-01 M14-58534
CONTRIBUTION TO THE EQUILIBRIUM DIAGRAM OF THE SYSTEM MERCURY-INDIUM 67-02 M13-60615
THE VISCOSITY OF FUSIBLE GA-CD, GA-HG AND GA-BI DECOMPOSITION SYSTEMS 67-07 M15-72728
INVESTIGATION OF THE THERMODYNAMIC PROPERTIES OF THE GALLIUM-MERCURY AND GALLIUM-ZINC SYSTEMS 67-10 M15-78671
THERMODYNAMIC PROPERTIES OF THE TWO-PHASE REGION OF CONSTANT-COMPOSITION BINARY SOLUTIONS 67-10 M15-79250
THE CONSTITUTION OF ALLOYS OF GOLD AND MERCURY 67-11 M14-80305
STUDY OF CERTAIN THERMODYNAMIC PROPERTIES OF THE PH-HG SYSTEM 67-11 M15-81178
THERMODYNAMIC STUDY OF THE MERCURY-TIN SYSTEM 67-12 M13-83104
PHASE DIAGRAM OF THE ALLOY SYSTEM HGTE-CDTE 67-12 M14-82002
MERCURY /METAL/, COATINGS
CREEP STRENGTH OF ZINC IN PRESENCE OF MERCURY AND GALLIUM 67-07 M17-73164
THE JOINT EFFECTS OF RADIATION AND BOUNDARY-ACTIVE COATING ON THE MECHANICAL PROPERTIES OF SINGLE CRYSTALS OF METALS 67-09 M17-76720
ADSORPTION-INDUCED REDUCTION IN THE STRENGTH OF ZINC COATED WITH THIN MERCURY FILMS OVER A LIMITED SURFACE AREA 67-12 M17-82437
MERCURY /METAL/, CORROSION
LIQUIDUS CURVES AND CORROSION OF FE, CR, NI, CO, V, CB, TA, TI, ZR, IN 500 TO 750 C. MERCURY 67-08 M18-76187
MERCURY /METAL/, CRYSTAL GROWTH
PREPARATION OF ORIENTED HG SINGLE CRYSTALS 67-02 M14-60921
MERCURY /METAL/, CRYSTAL LATTICES
THE STRUCTURE OF LIQUID HG 67-11 M13-80805
MERCURY /METAL/, DEPOSITION
NUCLEATION IN ELECTROLYTIC METAL DEPOSITION 67-11 M12-80806
MERCURY /METAL/, DIFFUSION
A SIMPLE EVALUATION OF GRAIN BOUNDARY DIFFUSION IN LIQUID METAL EMBRITTLEMENT 67-04 M14-66273
EFFECT OF METALS SOLUBLE IN MERCURY ON THE RATE OF MERCURY DIFFUSION OVER THE SURFACE OF POLYCRYSTALLINE ZINC 67-04 M14-67637
ELECTRODIFFUSION OF SN AND HG IN THEIR ALLOYS CONTAINING GA 67-04 M14-67918
ANISOTROPIC DIFFUSION OF MERCURY IN ZINC 67-06 M14-69911
TRACER DIFFUSION OF MERCURY IN THALLIUM AMALGAMS 67-07 M14-72875
THE COMBINED EFFECTS OF IRRADIATION AND A SURFACE-ACTIVE MEDIUM ON THE MECHANICAL PROPERTIES OF MONOCRYSTALS OF ZINC 67-10 M17-78963
MERCURY /METAL/, DIFFUSION EFFECTS
FRACTURE OF COPPER ALLOYS TESTED IN MERCURY SALT SOLUTIONS 67-12 M17-82438
MERCURY /METAL/, ELECTRICAL PROPERTIES
THE EFFECT OF LATTICE DEFECTS ON THE SUPERCONDUCTION OF MERCURY 67-03 M15-65702
MAGNETORESISTANCE OF CRYSTALLINE MERCURY 67-06 M15-69913
ELECTRICAL CONDUCTIVITY AND DENSITY OF SUPERCRITICAL GASEOUS MERCURY AT HIGH PRESSURES 67-07 M15-72422
MERCURY /METAL/, EXTRACTION
MERCURY AS A PRODUCT OF IMAGINATION AND INNOVATION 67-03 M03-65413
HEAT BALANCE FOR PRODUCING MERCURY BY SINTERING ORE IN A TUBULAR FURNACE 67-06 M03-70206
MERCURY /METAL/, INTERMETALLICS
A GAMMA-PHASE IN THE PLUTONIUM-MERCURY SYSTEM 67-01 M13-58537
PREPARATION OF HOMOGENEOUS HGTE-ZNTE ALLOYS 67-02 M14-61770
THERMODYNAMIC INVESTIGATIONS ON LIQUID AND SOLID MERCURY-INDIUM ALLOYS 67-04 M15-66542
HELICON OSCILLATIONS IN HGSE 67-10 M16-79368
MERCURY /METAL/, MECHANICAL PROPERTIES
PROPAGATION OF A CRACK FILLED WITH LIQUID METAL 67-02 M17-59434
MERCURY /METAL/, NUCLEAR PROPERTIES
THE OBSERVATION OF OPEN ORBITS IN MERCURY BY A TORQUE METHOD 67-08 M15-75820
MERCURY /METAL/, PHASE TRANSFORMATIONS
POLYMORPHISM IN SOLID MERCURY--A CORRECTION 67-06 M14-72072
MERCURY /METAL/, PHYSICAL PROPERTIES
ABSORPTION OF SULFUR DIOXIDE IN MERCURY AT 25 C 67-03 M14-65097
MERCURY /METAL/, REFINING
FREEING MERCURY FROM IRON 67-05 M03-68410
MERCURY /METAL/, SOLUBILITY
INTERACTION OF MERCURY WITH METALS AND ALLOYS 67-09 M14-76839
MERCURY /METAL/, SUPERCONDUCTIVITY
MAKING EFFECTIVE USE OF SUPERCONDUCTING MAGNETS 67-01 M16-57233
SUPERCONDUCTIVITY AND SOME OF ITS APPLICATIONS 67-04 M16-66131
MERCURY /METAL/, THERMAL PROPERTIES
THE ABSOLUTE THERMOELECTRIC POWER OF LIQUID METALS 67-01 M15-57972
TEMPERATURE PROFILES AND EDDY DIFFUSIVITIES IN LIQUID METALS 67-05 M15-69102
KAPITZA RESISTANCE OF MERCURY BETWEEN 1.1 AND 2.1 K 67-08 M15-74664
MERCURY /METAL/, THERMODYNAMICS
COMPRESSION OF MERCURY AT HIGH PRESSURE 67-07 M15-74216
MERCURY /METAL/, VAPORS
ELECTRON MICROSCOPIC ANALYSIS OF NUCLEATION IN MERCURY 67-11 M14-80228
MERCURY /METAL/, WEAR
WEAR MECHANISM OF THE SURFACE OF CU-ZN METAL GROUP IN THE PRESENCE OF MERCURY AND ULTRASONIC VIBRATIONS 67-07 M17-73162
MERCURY ALLOYS
SEE MERCURY AMALGAMS
MERCURY AMALGAMS
THE EFFECT OF GRAIN BOUNDARY PENETRATION ON THE DELAYED FAILURE OF CU-2 PER CENT BE 67-04 M17-66921
FACTORS INDLUENCING THE MARGINAL ADAPTATION OF AMALGAM 67-12 M20-82643
MERCURY AMALGAMS, ATOMIC PROPERTIES
KNIGHT SHIFTS IN LIQUID BINARY ALLOYS CONTAINING DIVALENT METALS 67-07 M16-73492
MERCURY AMALGAMS, BONDING

SOME PHYSICAL PROPERTIES OF SILVER-TIN AMALGAMS
67-12 M20-82279
MERCURY AMALGAMS, CORROSION
A POTENTIOSTATIC STUDY OF THE CORROSION OF DENTAL SILVER-TIN AMALGAM 67-09 M16-76648
MERCURY AMALGAMS, DIFFUSION
A SIMPLE EVALUATION OF GRAIN BOUNDARY DIFFUSION IN LIQUID METAL EMBRITTLEMENT 67-04 M14-66273
EFFECT OF METALS SOLUBLE IN MERCURY ON THE RATE OF MERCURY DIFFUSION OVER THE SURFACE OF POLYCRYSTALLINE ZINC 67-04 M14-67637
TRACER DIFFUSION OF MERCURY IN THALLIUM AMALGAMS
67-07 M14-72875
MERCURY AMALGAMS, DISSOLVING
DISSOLUTION OF SILVER AMALGAM IN CYANIDE SOLUTIONS
67-02 M03-62042
MERCURY AMALGAMS, ELECTRICAL PROPERTIES
THE EFFECT OF PRESSURE ON THE RESISTIVITY AND THERMOELECTRIC POWER OF LIQUID MERCURY-INDIUM ALLOYS 67-02 M15-60807
THERMOELECTRIC POWER OF LIQUID DILUTE ALLOYS OF MERCURY 67-03 M15-65636
MERCURY AMALGAMS, REACTIONS /CHEMICAL/
INTERMETALLIC COMPOUND FORMATION BETWEEN COBALT AND ZINC IN MERCURY 67-08 M14-74677
MERCURY BASE ALLOYS
SEE ALSO MERCURY AMALGAMS
MERCURY BASE ALLOYS, TRANSPORT PROPERTIES
HALL COEFFICIENT OF LIQUID METALS HG, GA, IN, AND SN, AND OF IN2BI AND HG-SN ALLOYS
67-11 M15-81049
MERCURY COMPOUNDS, BAND THEORY
SHUBNIKOV-DE HAAS EFFECT OF N-TYPE HGTE
67-03 M16-65647
MERCURY COMPOUNDS, BENEFICIATION
INDUSTRIAL TESTING OF OZHIZHIKRUT ORE BENEFICIATION SYSTEM 67-06 M02-70187
AUTOMATIC SEPARATION OF COMPOSITE MERCURY-ANTIMONY ORES 67-11 M02-81323
THE EFFECT OF OXIDATION ON THE FLOTATION OF ANTIMONITE AND CINNABAR 67-12 M02-83368
MERCURY COMPOUNDS, BINARY SYSTEMS
STRUCTURE AND PROPERTIES OF COMPOUNDS FORMED BY ALUMINA AND OXIDES OF THE ELEMENTS OF GROUP 2-B
67-04 M14-66311
INFLUENCE OF ORDERING ON THE PROPERTIES OF SOLID SOLUTIONS OF THE SYSTEM --HGSE--3X---IN2SE3--1-X
67-06 M16-70982
PERMITTIVITY OF SOLID SOLUTIONS IN THE SYSTEM ZNXHG1-XTE 67-07 M16-73998
MERCURY COMPOUNDS, CRYSTAL GROWTH
THE PRODUCTION OF MERCURY TELLURIDE MONOCRYSTALS
67-09 M14-76936
MERCURY COMPOUNDS, CRYSTAL LATTICES
CRYSTAL STRUCTURE OF RHHG2 67-09 M13-77571
MERCURY COMPOUNDS, MECHANICAL PROPERTIES
THE ELASTIC CONSTANTS OF MERCURY TELLURIDE
67-12 M17-82288
MERCURY COMPOUNDS, TRANSPORT PROPERTIES
PROPERTIES OF MERCURY TELLURIDE THIN FILMS
67-03 M16-65735
MAGNETORESISTANCE STUDIES OF HGTE AT LOW TEMPERATURES 67-04 M16-66769
METAL BATHS
EFFECT OF VARIOUS FACTORS ON THE MANGANESE CONTENT OF THE METAL BATH IN THE BASIC OXYGEN LD PROCESS
67-06 M04-72203
OXYGEN LANCE NOZZLE EXPERIMENTS FOR THE CONTROL OF THE BATH MOTION OF HIGH-PHOSPHORUS HOT METAL IN A 50-TON BASIC OXYGEN FURNACE 67-07 M04-72891
A COMPARATIVE STUDY OF SOME MODERN BRIGHT NICKEL-CHROMIUM SYSTEMS 67-08 M12-76076
METAL BATHS, DIFFUSION EFFECTS
THE EFFECT OF PRELIMINARY PLASTIC DEFORMATION ON THE RESISTANCE OF MATERIALS UNDER THE DYNAMIC EFFECT OF LEAD MELTS 67-06 M17-70328
METAL BENDING
SEE ALSO BRAKE FORMING
DRAW BENDING
ROLL BENDING
STRETCH WRAPPING
COLD BENDING AND FORMING TUBE AND OTHER SECTIONS
67-04 M08-66589
METAL BONDING
ADHESIVE BONDS IN AIRCRAFT AND SPACECRAFT MANUFACTURE 67-01 M11-58265
A PRACTICAL GUIDE TO DIFFUSION BONDING
67-02 M12-59041
THE ADHESIVE BONDING OF ZN, CU, BRASS AND BROWN-FINISHED STEEL 67-05 M11-69033
THE METAL-CERAMIC BOUNDARY 67-05 M11-69446
METAL CARBIDES
SEE ALSO IRON CARBIDES
TITANIUM CARBIDE
TUNGSTEN CARBIDE
URANIUM CARBIDE
METAL CARBIDES, MICROSTRUCTURE
ON THE MECHANISM OF THE FORMATION OF ME23C6 CARBIDE DURING TEMPERING OF MOLYBDENUM STEEL
67-02 M14-59942
FORMATION MECHANISM OF THE CARBIDE ME23C6 ON THE TEMPERING OF MOLYBDENUM STEEL
67-07 M14-72597
METAL CARBIDES, PHASE TRANSFORMATIONS
PROPERTIES OF WC-TIC-13 PER CENT CO ALLOYS IN CONNECTION WITH THE CARBON CONTENT OF CARBIDES
67-02 M14-59752
METAL CARBIDES, POWDER METALLURGY
POROUS MATERIALS FROM CARBIDES AND BORIDES OF THE TRANSITION METALS 67-02 M09-62214
PREPARATION OF SOLID SOLUTIONS OF SOME COMPLEX CARBIDES OF TRANSITION METALS
67-06 M09-72323
METAL CARBIDES, SURFACE PROPERTIES
STRUCTURE AND PROPERTIES OF WC SOLID SOLUTIONS IN TIC, NBC AND TAC 67-03 M15-65797
METAL CARBIDES, WELDING
WELDING BORON CARBIDE TO SILICON
67-01 M11-58379
METAL CARBONYLS, MICROSTRUCTURE
MORPHOLOGY AND TEXTURE OF CARBONYL MOLYBDENUM AND TUNGSTEN PRECIPITATES 67-02 M13-59930
MORPHOLOGY AND TEXTURE OF DEPOSITS OF CARBONYL MOLYBDENUM AND TUNGSTEN 67-07 M13-72585
METAL CERAMICS
SEE CERMETS
METAL CLEANING
METAL CLEANING 67-06 M12-70028
PRACTICAL ADVANTAGES OF COLD EMULSION CLEANING
67-06 M12-70607
DEGREASING AND CLEANING WITH ORGANIC SOLVENTS
67-06 M12-71809
CONTEMPORARY METHODS FOR METAL CLEANING
67-06 M12-71810
ELECTROLYTIC DESCALING IN ALKALI SOLUTIONS
67-06 M12-71811
EFFECT OF ADDITIONS OF IRON SULFATE AND INHIBITORS ON THE PROGRESS OF PICKLING IN SULFURIC ACID BATHS 67-07 M12-72724
METAL CLEANING NAD DEGREASING--THE BASIS OF EFFECTIVE SURFACE FINISHING 67-08 M12-74526
PHYSICAL AND CHEMICAL CLEANNESS OF SURFACES IN NUCLEAR TECHNIQUES AND APPLICATIONS
67-10 M12-79929
METAL COATINGS
SEE ALSO CLAD METALS
APPLICATIONS OF METALLIZING IN THE STEEL MILL
67-01 M18-57163
THROWING POWER OF NICKEL BARREL PLATING
67-02 M12-59160
REFRACTORY METALS--PROTECTION BY ALUMINIUM-TIN COATINGS 67-03 M12-65165
METALLIZED PLASTICS 67-04 M12-66672
FLAME-SPRAYED COATINGS. PT. 1 67-07 M12-74162
PRODUCTION OF NICKEL-IRON ALLOYS
67-08 M12-74614
ELECTROPLATING 67-08 M12-74857
METAL FINISHING GUIDEBOOK DIRECTORY FOR 1967
67-08 M12-76203
PREVENTION OF CORROSION 67-08 M18-74601
CONTROL OF CORROSION AT MECHANICAL JOINTS
67-08 M18-74706
SIMPLIFIED GUIDE TO THERMAL-SPRAY COATINGS
67-10 M12-79183
OXIDATION-RESISTANT COATINGS FOR REFRACTORY METALS
67-10 M12-79199
CONTROL GLASS PROPERTIES WITH FILMS AND COATINGS
67-12 M12-83176
METAL COATINGS, ADHESION
CHARACTERIZATION OF ELECTROLYTES AND ELECTRODEPOSITS 67-04 M12-67393
METAL COATINGS, CHEMICAL ANALYSIS
RADIOISOTOPE X-RAY FLUORESCENCE AND RADIATION SCATTER TECHNIQUES IN MINING AND METALLURGY
67-08 M19-74669
METAL COATINGS, CORROSION
CORROSION RESISTANCE OF COATING COMPOSED OF ZINC AND OTHER METALS--CORROSION PREVENTION OF TRACK

MATERIALS 67-02 M18-59159
PROTECTION OF STEEL BY METAL SPRAYING.. A REVIEW 67-03 M18-65993
LABORATORY COATING TESTS--SHELL INVESTIGATES COATINGS FOR OFFSHORE USE 67-04 M18-66318
GALVANIC PITTING IN METALLIC COATINGS 67-04 M18-66715
CORROSION OF ELECTRODEPOSITED CHROMIUM 67-04 M18-66716
DEVELOPMENTS IN NICKEL AND CHROMIUM DECORATIVE COATINGS AND IN ELECTROFORMING WITH NICKEL. PT. 1 67-07 M12-73129
ELECTROCHEMICAL CORROSION IN HIGH-PRESSURE TECHNOLOGY 67-07 M18-73727
ALUMINUM COATING OF URANIUM REACTOR PARTS FOR CORROSION PROTECTION 67-07 M18-74241
CORROSION-RESISTANT COATINGS BY PHYSICAL VAPOR PLATING 67-08 M12-76056
FUNDAMENTALS OF CONTACT CORROSION WITH PARTICULAR EMPHASIS ON ITS EFFECT ON METALLIC PROTECTIVE COATINGS 67-08 M18-75680
SCIENCE FOR ELECTROPLATERS. PT. 117. POROSITY 67-10 M12-78526
CONTACT CORROSION WITH ONE-LAYER AND MULTILAYER METAL COATINGS 67-10 M18-78682
SCIENCE FOR ELECTROPLATERS. PT. 117 67-11 M18-80668
OXIDATION RESISTANT METALLIC COATINGS 67-12 M12-82608
THE PRESENT STATE OF DEVELOPMENT OF METAL SPRAYING TECHNIQUES. PT. 4 67-12 M18-82465
THE INFLUENCE OF INTERNAL STRESS ON CORROSION FATIGUE IN NICKEL-PLATED STEEL 67-12 M18-82606

METAL COATINGS, ELECTRODEPOSITION
ELECTROPHORETIC DEPOSITION OF ALUMINUM POWDER 67-02 M12-59158

METAL COATINGS, MATERIALS TESTING
THE APPLICATION OF NONDESTRUCTIVE COATING THICKNESS-MEASURING METHODS 67-07 M12-73821

METAL COATINGS, MECHANICAL PROPERTIES
INVESTIGATION OF INTERNAL STRESSES IN SN-NI COATINGS 67-07 M12-73652
CADMIUM COATINGS REINFORCED WITH SOLID PARTICLES 67-07 M12-73653
INTERNAL STRESS IN ELECTRODEPOSITS 67-07 M17-73626
METHODS OF TESTING THE ADHESION OF METAL COATINGS TO METALS 67-09 M17-76665
THE ELECTROLYTIC DEPOSITION OF PT AND PT ALLOYS WITH EMPHASIS ON INCREASED HARDNESS 67-12 M12-83084
THE EFFECT OF THERMAL AND MECHANICAL FINAL TREATMENTS ON THE FATIGUE BEHAVIOR OF CHROMIZED BOLTS 67-12 M12-83148
MECHANICAL PROPERTIES OF COPPER CLAD ALUMINUM WIRE. PT. 2. STUDIES ON FABRICATION OF ULTRAFINE WIRE OF ALUMINUM AND ALUMINUM ALLOYS 67-12 M17-83110

METAL COATINGS, MECHANICAL TESTS
DETERMINATION OF RESIDUAL STRESSES IN ELECTROLYTIC COATINGS FROM THE DEFLECTION OF A FLAT CATHODE 67-05 M17-69615

METAL COATINGS, NONDESTRUCTIVE TESTING
COATING WEIGHTS MEASUREMENT WITH BETA-RAY ON CONTINUOUS GALVANIZING LINES 67-02 M12-58849
THE APPLICATION OF AN X-RAY FLUORESCENT TECHNIQUE TO THE MEASUREMENT OF TIN-COATING THICKNESS OF SMALL AREAS 67-06 M19-72019

METAL COATINGS, PHYSICAL PROPERTIES
CONDUCTIVE COATINGS 67-08 M20-75624

METAL COATINGS, STRESSES
STRESS DURING THE DEPOSITION OF ZINC ON COPPER SUBSTRATE 67-10 M12-79052

METAL COATINGS, WEAR
STUDY OF ATOMIC SEPARATION OF COPPER IN THE ELECTROLYTIC CHROMIUM-BRONZE COUPLE 67-06 M17-70377

METAL CUTTING
APPLICATION OF THE MECHANICS OF PLASTIC DEFORMATION TO METAL CUTTING 67-03 M08-65988
MACHINING OF HIGH STRENGTH MATERIALS AT ELEVATED TEMPERATURES USING ELECTRIC CURRENT HEATING 67-03 M08-65990
RELATIONSHIP BETWEEN CUTTING FORCES, TEMPERATURES, BUILT-UP EDGE AND SURFACE FINISH 67-03 M08-65992
EVALUATION OF CUTTING FLUIDS FOR TAPPING CAST IRONS 67-07 M08-72995
THE RELATION BETWEEN THE STATIC AND THE DYNAMIC CUTTING OF METALS 67-09 M08-78105
A TECHNIQUE TO OPTIMIZE CONTROL OF PROCESS VARIABLES IN RELATED STUDIES OF CAUSES AND EFFECTS OF METAL CUTTING BEHAVIOUR 67-12 M08-82779

METAL DRAWING
SEE ALSO COLD DRAWING
DEEP DRAWING
DIE DRAWING
HOT DRAWING
WIRE DRAWING
CONTROLLED STRETCH-DRAW FORMING 67-09 M07-77507
TUBE PRODUCTION CAPACITY INCREASED 67-12 M07-83165

METAL EXTRUSION
SEE ALSO HYDROSTATIC EXTRUSION
IMPACT EXTRUSION
SEJOURNET PROCESS
HYDROMECHANICAL EXTRUSION OF THIN-WALLED TUBES 67-08 M07-75479

METAL FIBERS
SEE ALSO WHISKERS /METALS/

METAL FIBERS, COMPOSITE MATERIALS
FIBER-METAL COMPOSITES 67-03 M14-65346
CERAMIC-METAL FIBER COMPOSITE SYSTEMS 67-03 M14-65349

METAL FIBERS, DIFFUSION
INVESTIGATION OF THE DIFFUSION IN COPPER MICROWIRES 67-06 M14-70336

METAL FIBERS, MECHANICAL PROPERTIES
THE FAILURE OF COPPER-TUNGSTEN FIBER COMPOSITES IN REPEATED TENSION 67-01 M17-57222
NEW FIBERS FOR STRUCTURAL REINFORCEMENTS 67-11 M14-80687

METAL FILAMENTS
SEE METAL FIBERS

METAL FILMS, ADHESION
SOME FUNDAMENTAL PROBLEMS IN THE MEASUREMENT OF STICKING PROBABILITIES OF GASES ON METAL FILMS 67-07 M15-74265

METAL FILMS, COATINGS
LOW ENERGY TRIODE SPUTTERING 67-08 M12-75040

METAL FILMS, ELECTRICAL PROPERTIES
MEAN FREE PATHS OF ELECTRONS IN DISORDERED METAL FILMS 67-06 M16-72091

METAL FINISHING
SEE ALSO CHEMICAL POLISHING
DESCALING
ELECTROPOLISHING
METAL CLEANING
METAL POLISHING
PLANISHING
SHOT PEENING
PROGRESS IN NOBLE METAL PLATING. PT. 5 67-06 M12-71813
ALUMINUM. V. 1. PROPERTIES, PHYSICAL METALLURGY AND PHASE DIAGRAMS. V. 2. DESIGN AND APPLICATIONS. V. 3. FABRICATION AND FINISHING 67-08 M01-74801
METAL FINISHING GUIDEBOOK DIRECTORY 67-09 M12-77841

METAL FOILS
COPPER FOILS BY ELECTROFORMING 67-02 M07-61105
SOLID-STATE WELDING OF ALUMINUM 67-04 M11-67628
VANADIUM FOIL FOR NUCLEAR RESEARCH 67-06 M03-70161
ROLLING ULTRATHIN TITANIUM FOIL 67-06 M07-71583

METAL FOILS, CASTING
ALUMINUM FOIL 67-04 M20-66146

METAL FOILS, COATING
WEATHER RESISTANT TRANSPARENT LACQUERS ON AL 67-06 M12-71983
AGGREGATION OF AG AND AU THIN FILMS THAT ARE DEPOSITED ON CARBON FOILS AT ELEVATED TEMPERATURES AND IN ULTRAHIGH VACUUM 67-08 M14-75164
CONTINUOUS OXIDE COATING OF COILED COPPER FOIL IN A NIIM DEVICE 67-09 M12-76959

METAL FOILS, COATINGS
ELECTROCHEMICAL MANUFACTURING OF COPPER FOIL 67-02 M03-59199
BONDING OF ALUMINIUM FOIL AND POWDER TO STEEL STRIP 67-04 M12-66982
APPLICATIONS OF METAL FINISHING IN PRINTED CIRCUITS. PT. 1 67-09 M12-77388

METAL FOILS, CORROSION
HYDRIDE FORMATION IN CORRODED TITANIUM ALLOYS 67-05 M18-68640
METAL FOILS, CRACK PROPAGATION
KINETICS OF CRACK PROPAGATION IN METAL FOILS 67-01 M17-57698
METAL FOILS, CRYSTAL DEFECTS
THE STUDY OF DEFECTS IN QUENCHED NICKEL 67-05 M14-69781
METAL FOILS, CRYSTAL GROWTH
GROWTH OF ZINC SINGLE-CRYSTAL FOILS FROM THE MELT 67-01 M14-58783
GROWING OF SINGLE CRYSTALLINE NICKEL FOILS 67-02 M14-61895
IDENTIFICATION AND GROWTH TOPOLOGY OF CRYSTALS DEPOSITED IN AN AL-CU-AG ALLOY 67-04 M14-66395
EFFECT OF DISLOCATION DENSITY ON THE EPITAXIAL GROWTH OF SILVER 67-09 M14-77457
METAL FOILS, CRYSTAL LATTICES
TWO-TRIANGLE LOOPS IN QUENCHED ALUMINUM 67-01 M13-57125
ELECTRON MICROSCOPY AND DIFFRACTION OF SYNTHETIC CORUNDUM CRYSTALS. PT. 2. DISLOCATIONS AND GRAIN BOUNDARIES IN IMPURITY-DOPED ALUMINIUM OXIDE 67-01 M13-57481
THREE-LAYER DEFECTS IN QUENCHED ALUMINIUM 67-01 M13-57486
DETERMINATION OF THE DISPLACEMENT VECTOR AT THE ANTI-PHASE BOUNDARIES IN RUTILE BY CONTRAST EXPERIMENTS IN THE ELECTRON MICROSCOPE 67-01 M13-57568
ELECTRON DIFFRACTION CONTRAST OF SMALL STACKING FAULT TETRAHEDRA WITH APPLICATIONS TO QUENCHED GOLD 67-01 M13-57574
THE NATURE OF DEFECTS IN NEUTRON-IRRADIATED CU OBSERVED BY ELECTRON MICROSCOPE 67-01 M13-57580
THE ELASTIC ENERGIES OF ELLIPTICAL DISLOCATION LOOPS 67-01 M13-57939
THE ANNEALING OF WEAKLY DEFORMED POLYCRYSTALLINE NICKEL FOILS IN AN ELECTRON MICROSCOPE 67-01 M14-58798
PROOF AND ORIGIN OF INTERSTITIAL ATOM AGGLOMERATES IN CU FOILS EXPOSED TO IONIC IRRADIATION 67-01 M16-57581
VACANCY CONCENTRATIONS IN QUENCHED ALUMINUM 67-02 M13-58967
ELECTRON MICROSCOPY OF THIN TWINS AND STACKING FAULTS 67-02 M13-60516
CONTRAST EFFECTS DUE TO ELASTIC ANISOTROPY IN BETA-BRASS 67-02 M13-60814
CONTINUOUS OBSERVATION OF RECRYSTALLIZATION AND SUCCESSIVE COARSENING IN ALUMINUM WITH A 500 KV ELECTRON MICROSCOPE 67-02 M14-59071
ISOTHERMAL ANNEALING STUDIES ON VACANCY AND INTERSTITIAL LOOPS IN SINGLE CRYSTAL GRAPHITE 67-02 M14-60813
METALLURGICAL APPLICATIONS OF A 500 KV ELECTRON MICROSCOPE 67-04 M13-67551
SURFACE OXIDE FILMS AND THE LIFETIME OF VACANCIES IN THIN CRYSTALS 67-05 M14-68752
POINT-DEFECT STUDIES IN PLATINUM BY ELECTRON IRRADIATION AT LOW TEMPERATURES. PT. 1. DEFECT PRODUCTION 67-06 M14-69914
DIRECT OBSERVATION OF THE MULTIPLICATION OF DISLOCATIONS IN THIN FOILS OF ALUMINIUM-BASED ALLOYS 67-08 M13-74420
VACANCY-LOOP ANNEALING IN HEXAGONAL AND CUBIC LATTICES 67-08 M14-76209
INTERSTITIAL DEFECT CLUSTERS IN GOLD AFTER BOMBARDMENT WITH 270EV GOLD IONS 67-09 M14-77519
MOBILITY OF INTERSTITIAL DEFECTS IN GOLD BOMBARDED WITH 270 EV GOLD IONS IN STAGE 111 67-09 M14-77520
SUMMING DEVICE FOR AN X-RAY DIFFRACTION CAMERA 67-10 M13-79647
CLIMB KINETICS OF DISLOCATION LOOPS IN ALUMINIUM 67-10 M14-78904
ORDERING AND DISLOCATION PAIRS IN AN FE-6.0 WT PER CENT SI ALLOY 67-11 M14-81357
METAL FOILS, CUTTING
STUDIES OF THE PRECISION AND REPRODUCIBILITY OF ELECTRON BEAM CUTTING 67-02 M08-60997
METAL FOILS, DIFFRACTION
TEMPERATURE DEPENDENCE OF DYNAMICAL ELECTRON DIFFRACTION INTENSITIES OF POLYCRYSTALLINE FOILS 67-02 M13-61825
METAL FOILS, ELECTRICAL PROPERTIES
THE INFLUENCE OF THE SIZE EFFECT ON ELECTRICAL RESISTIVITY MEASUREMENTS IN IRRADIATED METALS 67-10 M15-79019
METAL FOILS, FORMING
FORMING PLATE, SHEET AND FOIL 67-08 M08-74843
METAL FOILS, HEAT TREATMENT
HEAT TREATING .. A PRECISION TOOL 67-04 M10-66302
METAL FOILS, IRRADIATION
ACTIVATION OF GOLD SPHERES AND FOILS IN NONISOTROPIC NEUTRON INCIDENCE 67-01 M16-58587
ACTIVATION ANALYSIS FOR NONDESTRUCTIVE LOCALIZATION OF IMPURITIES IN FOILS 67-01 M19-58588
METAL FOILS, MAGNETIC PROPERTIES
PARAMAGNETIC RESONANCE TRANSMISSION IN GADOLINIUM 67-01 M15-57552
MAGNETIC DOMAIN STRUCTURE OF THIN UNIAXIAL CRYSTALS 67-02 M15-60804
THE TEMPERATURE DEPENDENCE OF THE MAGNETIC DOMAIN STRUCTURE IN THIN COBALT CRYSTALS 67-02 M15-60805
FERROMAGNETIC DOMAIN WALL INTERACTIONS USING LORENZ ELECTRON MICROSCOPY 67-03 M15-65893
METAL FOILS, MECHANICAL PROPERTIES
DEVELOPMENT TRENDS FOR THE USE OF STEEL SHEETS AND STEEL FOIL AS STRUCTURAL MATERIALS FOR SUPERSONIC AIRCRAFT AS SHOWN IN THE XB-70A OF NORTH AMERICAN AVIATION INC 67-01 M20-58113
CREEP OF ALUMINUM WITH FINELY LINED LAYER PHASE OF ALUMINUM OXIDE 67-02 M17-59746
PROPERTIES AND FIELDS OF APPLICATION OF ALUMINUM FOIL 67-02 M17-60082
INFLUENCE OF COLD PLASTIC DEFORMATION AND ANNEALING ON MECHANICAL PROPERTIES OF COLUMBIUM SHEET 67-04 M17-66446
STUDY OF DEFORMATION AND CRACKING IN THIN FOILS OF CHROMIUM 67-04 M17-66490
WELDABILITY OF THIN PIECES OF AMG6 ALLOY 67-04 M17-67016
ON THE LOCALIZATION OF STRAIN IN HIGH-TEMPERATURE CREEP 67-04 M17-67927
THE PHENOMENON OF LOCAL BUCKLING AND ITS CONSEQUENCES 67-05 M17-68930
WELDABILITY OF THIN AMG6 ALLOY 67-08 M17-74775
UNIFYING THE PROPERTIES OF ALUMINUM FOIL BY CONTROL OF MANUFACTURING CONDITIONS 67-10 M17-78706
EFFECT OF COLD PLASTIC DEFORMATION AND ANNEALING ON THE MECHANICAL PROPERTIES OF SHEET NIOBIUM 67-11 M17-80987
THE DEFORMATION OF THIN FOILS UNDER HYDROSTATIC PRESSURE 67-12 M17-83026
METAL FOILS, MECHANICAL TESTS
A METHOD FOR TENSILE TESTING OF FOIL IN A WIDE TEMPERATURE RANGE 67-05 M17-69617
METAL FOILS, METAL FORMING
A SIMPLE TECHNIQUE FOR SHOCK DEFORMING METAL FOILS 67-08 M08-74393
METAL FOILS, METAL WORKING
THE ELASTIC BEHAVIOR OF A FOUR-HIGH COLD ROLLING STAND IN THE FINISH ROLLING OF AL FOIL 67-07 M07-74156
METAL FOILS, METALLOGRAPHY
THE DIRECT OBSERVATION OF ETCH-PITS AT DISLOCATIONS IN MOLYBDENUM 67-01 M13-57482
SOME INNOVATIONS AND OBSERVATIONS ON HIGH PRESSURE DIFFRACTOMETRY 67-01 M13-58762
PREPARATION OF THIN FOILS OF TITANIUM AND TITANIUM ALLOYS FOR TRANSMISSION ELECTRON MICROSCOPY 67-04 M13-66338
OBTAINING THIN FOIL FROM WELDED JOINT METAL FOR STUDY OF DISLOCATION STRUCTURE 67-04 M13-66441
METHOD OF REMOVING THIN FOIL FROM WELDED JOINTS FOR THE STUDY OF DISLOCATION STRUCTURES 67-07 M13-72700
A RAPID TECHNIQUE FOR PREPARING THIN FOILS FOR ELECTRON MICROSCOPY. --IMPROVED JET-POLISHING METHOD-- 67-08 M13-75082
METAL FOILS, MICROSCOPY
THE ESTIMATION OF SIZE DISTRIBUTION AND DENSITY OF PRECIPITATES FROM ELECTRON MICROGRAPHS OF THIN FOILS 67-01 M13-58782
METALLURGICAL INVESTIGATIONS WITH A 500 KV ELECTRON MICROSCOPE 67-06 M14-71545
METAL FOILS, MICROSTRUCTURE
MULTIPLE ELECTRON DIFFRACTION. APPLICATION TO EVAPORATING UO2 PLUS X 67-02 M13-60812

METAL FOILS
A STUDY OF THE MECHANISM OF INTERGRANULAR CREEP CAVITATION BY SHADOWGRAPHIC ELECTRON MICROSCOPY 67-02 M17-60641
EVOLUTION OF DISLOCATIONS DURING ANNEALING IN AN ORDERED SOLID SOLUTION OF FE-AL 67-03 M13-65557
THE DETERMINATION OF CRYSTALLOGRAPHIC STRUCTURES ON ELECTRON TRANSMISSION MICROGRAPHS 67-07 M13-73851
BURGERS VECTORS OF DISLOCATIONS IN DEFORMED IRON AND IRON ALLOYS 67-07 M14-73500
THE MICROSTRUCTURE OF CAST FOILS OF ALUMINUM OBSERVED BY TRANSMISSION ELECTRON MICROSCOPY 67-08 M13-75142
EXPERIMENTS ON THE DEFORMATION OF NIOBIUM SINGLE CRYSTALS. PT. 2. ELECTRON MICROSCOPE STUDY OF DISLOCATION STRUCTURES 67-09 M13-76586
INDUSTRIAL APPLICATIONS OF ELECTRON METALLOGRAPHY. PT. 2 67-10 M13-78744
METAL FOILS, OPTICAL PROPERTIES
THE OPTICAL CONSTANTS OF ALUMINIUM FROM 12 TO 36 EV 67-06 M15-70695
METAL FOILS, OXIDATION
HEAT RESISTANCE OF NICKEL ALLOY WITH OXIDE ADDITIONS 67-10 M18-78537
METAL FOILS, PACKAGING
STEEL FOIL FINDS PACKAGING RECEPTIVE BUT TROUBLESOME 67-07 M20-73799
ETAL FOILS, PHASE TRANSFORMATIONS
RECRYSTALLIZATION OF ALUMINUM WITH FINELY LINED LAYER PHASES OF ALUMINUM OXIDE 67-02 M14-59747
IDENTIFICATION AND GROWTH TOPOLOGY OF CRYSTALS DEPOSITED IN AN AL-CU-AG ALLOY 67-05 M14-68594
STACKING FAULT PROBABILITIES IN COPPER-ALUMINUM MARTENSITE TRANSFORMED IN THIN FOILS 67-07 M14-73984
SPONTANEOUS MARTENSITE REACTION IN TI-CR ALLOYS 67-09 M14-77737
METAL FOILS, PLATING
CADMIUM COATINGS REINFORCED WITH SOLID PARTICLES 67-07 M12-73653
METAL FOILS, POWDER METALLURGY
ROLLING ALUMINUM POWDER INTO COILED DENSE-EDGE STRIP 67-04 M09-66841
METAL FOILS, RADIATION EFFECTS
BREMSSTRAHLUNG AND TRANSITION RADIATION FROM AG FOILS BOMBARDED BY NON-NORMAL INCIDENCE ELECTRONS 67-04 M16-68138
METAL FOILS, REACTIONS /CHEMICAL/
URANIUM CARBIDE. REFRACTORY METAL INTERACTIONS AT HIGH TEMPERATURE 67-03 M14-65987
METAL FOILS, RECRYSTALLIZATION /METALLURGICAL/
KINETICS OF PRIMARY, COLLECTIVE AND SECONDARY RECRYSTALLIZATION IN MOLYBDENUM FOIL 67-05 M14-69650
METAL FOILS, ROLLING
APPARATUS FOR ROLLING METALS AT 4.2-300 K 67-06 M07-70167
ELECTRON BEAM MELTING OF COLUMBIUM-BASE AND TITANIUM-BASE ALLOYS 67-08 M03-75212
THE QUALITY OF THIN FOILS OF TITANIUM 67-10 M07-79046
PRODUCTION AND USE OF THIN SHEET FOR PACKAGING 67-12 M07-83451
METAL FOILS, TEMPERATURE EFFECTS
LOW TEMPERATURE THERMAL CONDUCTIVITIES OF TWO HIGH COMPRESSIVE STRENGTH MATERIALS 67-06 M15-72260
METAL FOILS, THERMAL PROPERTIES
TRANSIENT DETERMINATIONS OF THERMAL DIFFUSIVITIES AND DISSIPATIONS OF METAL FOILS 67-02 M15-61073
MEASUREMENT OF THE RATE OF HEAT RELEASE IN ALPHA-IRRADIATED AL BY MEANS OF A MICROCALORIMETER 67-08 M15-75648
METAL FOILS, WEAR
EFFECT OF AN ELECTRIC FIELD ON THE CAVITATION DISINTEGRATION OF METALS 67-06 M17-70937
METAL FOILS, WELDING
ON THE FUNDAMENTAL TECHNIQUE OF FOIL METALLURGY 67-02 M11-59745
THINK TIG 67-02 M11-61645
ULTRASONICS IN ALUMINUM JOINING 67-04 M11-66248
QUALITY CONTROL OF ULTRASONIC WELDED JOINTS 67-04 M11-67803
DIFFUSION BONDING BERYLLIUM, MOLYBDENUM AND TUNGSTEN 67-05 M11-68675
EFFECT OF THE PARAMETERS AND PRECISION OF JOINT ASSEMBLY ON FORMATION OF GIRTH WELDS 67-05 M11-69403
CRYSTALLIZATION OF MOLTEN POOL IN WELDING LIGHT-GAGE METALS 67-05 M11-69405
IN-PROCESS QUALITY CONTROL OF ULTRASONIC WELDS IN COPPER SHEET 67-06 M11-70303
IMPROVING THE ROLL WELDING OF BELLOWS 67-07 M11-72742
WELDING OF REFRACTORY ALLOYS 67-08 M11-74463
STAINLESS FOIL TO 0.001-IN. THICK TIG WELDED 67-08 M11-75528
COLD PRESSURE WELDING 67-09 M11-76512
EFFECTS OF WELDING CONDITIONS AND ACCURACY ON THE FORMATION OF UNRESTRAINED WELDS 67-10 M11-78507
PRIMARY CRYSTALLIZATION OF THE MOLTEN METAL POOL WHEN WELDING THIN METAL 67-10 M11-78509
PLASMA WELDING FOILS THE FOILS 67-10 M11-78878
INCREASING THE RELIABILITY OF SEAM WELDED BELLOW JOINTS 67-12 M11-82321
METAL FOILS, X RAY ANALYSIS
SMALL VACANCY DISLOCATION LOOPS IN NEUTRON-IRRADIATED COPPER 67-09 M16-76597
METAL FORMING
CUTTING, STAMPING AND DRAWING TOOLS 67-06 M08-70696
STRETCH-DRAW FORMING ON A LOIRE HYDRAULIC PRESS 67-10 M08-78597
METAL JOINTS
SEE JOINTS
METAL POLISHING
SEE ALSO CHEMICAL POLISHING
ELECTROPOLISHING
SURFACE TREATMENT OF BASE METALS PRIOR TO ELECTROPLATING. PT. 2 67-04 M12-67054
METAL POWDERS
SEE ALSO ALLOY POWDERS
CARBONYL POWDERS
SINTERED PARTS MADE OF STAINLESS STEEL POWDER 67-01 M09-57611
POWDER ALLOYS OFFER HIGH PRECISION 67-02 M09-59001
WHATS NEW IN POWDER METALLURGY 67-02 M09-60249
AUTOCLAVE TECHNOLOGY OF PRODUCING COPPER POWDERS 67-02 M09-60560
POWDER METALLURGY EQUIPMENT MANUAL. PT. 2. COMPACTING PRESSES AND TOLLING 67-02 M09-61001
IRON POWDER WITH LOW O2 CONTENT FOR STRUCTURAL P/M PARTS. PT. 2. DATA FOR P/M PARTS FABRICATORS 67-02 M09-61090
DEVELOPING A PROCESS OF PLASMA PRODUCTION OF SPHERICAL POWDERS FROM REFRACTORY METALS 67-03 M09-65798
OBTAINING HIGH-DISPERSION ALUMINUM POWDER BY SPARK EROSION 67-04 M09-66833
ARGON VAPORIZING TECHNIQUE GIVES SUBDISPERSION METAL POWDERS 67-04 M09-66879
ZINC POWDER--MANUFACTURING AND DELIVERY SPECIFICATIONS 67-05 M09-69236
METHODS FOR IMPROVING THE DUCTILITY OF MOLYBDENUM 67-08 M09-75300
METAL POWDERS, ATOMIZING
STUDY OF FINELY-DISPERSED GRANULATED FERROSILICON 67-02 M04-62102
METHOD FOR PRODUCING DISPERSED FERROSILICON POWDER 67-02 M09-60093
THE PRODUCTION AND PROPERTIES OF SPHERICAL COPPER POWDERS AND PARTS FROM SUCH POWDERS 67-02 M09-61781
THE MECHANISM OF BREAKING THE LIQUID METAL STREAM BY A GAS JET 67-08 M09-75423
METAL POWDERS, BONDING
PROPERTIES OF GAS-PRESSURE-CONSOLIDATED BERYLLIUM POWDER 67-04 M09-67884
METAL POWDERS, BRIQUETTING
HOW EXTERNAL FRICTION AFFECTS METAL POWDER COMPACTION 67-05 M09-69304
METAL POWDERS, CEMENTS
METALLIC POWDER CEMENTS 67-05 M12-68609
METAL POWDERS, CHEMICAL ANALYSIS
THE SINTERING OF URANIUM WITH HIGHLY OXIDE-FREE SURFACES 67-02 M09-60826
QUANTITATIVE MICROPROBE ANALYSIS OF MICROCRYSTALLINE POWDERS 67-04 M19-67275
METAL POWDERS, CHROMIZING
DIFFUSION CHROMIZING OF IRON POWDERS IN SOLID

POWDER MIXTURE. PT. 2 67-02 M09-61702
CONDITIONS OF PREPARATION OF CHROMIZED IRON POWDER BY THE METHOD OF DIFFUSIONAL SATURATION FROM SOLID CHROMIUM-CONTAINING PACKING MATERIALS. PT. 1 67-02 M09-62120
CONDITIONS OF PREPARATION OF CHROMIZED IRON POWDER BY THE METHOD OF DIFFUSIONAL IMPREGNATION FROM SOLID CHROMIUM-CONTAINING PACKING MATERIALS. PT. 2 67-08 M09-75847

METAL POWDERS, COATING
ELECTROLESS NICKEL PLATING OF IRON METAL POWDERS 67-04 M09-66252
INVESTIGATION OF THE QUALITY OF ADHERENCE OF SINTERED POWDER TO THE SURFACE OF A PART 67-06 M09-71881
ELECTROLESS NICKEL PLATING OF IRON POWDERS 67-10 M09-78984

METAL POWDERS, COATINGS
PROTECTIVE DIFFUSION COATING OF NICKEL ALLOYS 67-01 M18-58711
ELECTROPHORETIC DEPOSITION OF ALUMINUM POWDER 67-02 M12-59158
THE PLASMA TECHNOLOGY OF TUNGSTEN 67-02 M12-60104
GLASS-COATED STEEL ADDS EDGE COAT 67-03 M12-65012
BONDING OF ALUMINIUM FOIL AND POWDER TO STEEL STRIP 67-04 M12-66982
ON ALUMINUM COATING. PT. 2. COATING OF SHEET STEEL WITH METAL POWDER 67-06 M12-71293
A NEW PROCESS FOR ALUMINIUM COATING STEEL STRIP 67-06 M12-72020
METAL-PLASTIC ANTIFRICTION MATERIALS FOR MANUFACTURING OF SALT-TYPE BEARINGS FOR LUBRICANT-FREE FRICTION 67-07 M09-72504
INVESTIGATION OF PHASE COMPOSITION OF COBALT POWDERS CONDENSED IN AN INERT GAS MEDIUM 67-08 M09-75422
FLAME-SPRAYED COATINGS 67-09 M12-76699
BETHLEHEMS SHEET CHROMIZING PROCESS 67-10 M12-78618
A METAL-PLASTIC ANTIFRICTION MATERIAL FOR THE MANUFACTURE OF COMPOSITE BUSHINGS OPERATING UNDER DRY FRICTION CONDITIONS 67-11 M09-80890
CHROMIZING COATING PROCESS FOR LOW-CARBON STEEL 67-12 M09-82398
COATING WITH A CHARGED CLOUD 67-12 M12-81970

METAL POWDERS, COMBUSTION
COMBUSTIBILITY OF METAL POWDER 67-02 M09-61797

METAL POWDERS, COMPACTIBILITY
VIBRATION PACKING OF SPHERICAL POWDERS 67-02 M09-62123
EXPERIENCE IN MANUFACTURING FRICTION SINTERED ALLOYS WITH AN IRON BASE 67-02 M09-62131
CERTAIN REGULARITIES OF PRESSING TWO-COMPONENT CERMET MATERIALS 67-06 M09-70771

METAL POWDERS, COMPACTING
EFFECT OF THE CERMET GEOMETRICAL FACTOR ON THE VALUE OF ELASTIC AFTERACTION 67-02 M09-59603
THE POSSIBILITY OF MANUFACTURING PARTS OF COMPLEX SHAPE BY THE METHOD OF VIBRATORY COMPACTING OF POWDER MATERIALS 67-02 M09-61626
INVESTIGATION OF THE TECHNOLOGICAL CHARACTERISTICS OF W-NI-CU-ALLOYS CONTAINING DISPERSIVE INCLUSIONS OF ZIRCONIUM DIOXIDE 67-04 M09-66259
TOKENS AND MEDALLIONS MADE BY POWDER METALLURGY 67-05 M09-68948
COMPACTION OF POROUS MATERIALS DURING PRESSING 67-06 M09-72319
MANUFACTURING OF PARTS BY VIBRATION COMPACTING 67-06 M09-72320
THE COMPACTION OF METAL POWDERS 67-07 M09-73859
ISOSTATIC PRESSING OF POWDERED MATERIALS 67-07 M09-73860
EXPLOSIVE COMPACTING OF METAL POWDERS 67-07 M09-73862
THE MECHANISM OF THE COMPACTION OF METAL POWDERS BY ROLLING 67-07 M09-73865
VIBRATORY COMPACTING OF METAL POWDERS 67-07 M09-73872
NEW METHODS FOR THE CONSOLIDATION OF METAL POWDERS. V 1. PERSPECTIVES IN POWDER METALLURGY 67-07 M09-73873
MECHANICAL PACKING OF SPHERICAL PARTICLES 67-07 M09-74116
THE VIBRATORY PACKING OF POWDERS 67-07 M09-74117
SMALL MAGNETIC IMPACT FORMING DEVICE 67-08 M09-74933

METAL POWDERS, COMPRESSIBILITY
STUDY OF THE PRESSIBILITY OF METAL POWDERS OF DIFFERENT DISPERSITY 67-02 M09-62119
THE ROLLING COEFFICIENTS OF METAL POWDERS 67-02 M09-62121

METAL POWDERS, CORROSION
PROTECTION OF IRON POWDER BY AZELATES OF HEAVY METALS 67-02 M09-62175
ATMOSPHERIC CORROSION OF IRON POWDERS IN THE PRESENCE OF SULFUR DIOXIDE 67-02 M18-61632
ATMOSPHERIC CORROSION OF COBALT POWDER 67-04 M18-66251
PROTECTION OF IRON POWDER BY HEAVY-METAL AZELATES 67-08 M09-75951
CORROSION STUDIES ON SINTERED CR-NI STEELS 67-08 M18-74448
ATMOSPHERIC CORROSION OF COBALT POWDER 67-10 M18-78983

METAL POWDERS, CRYSTAL GROWTH
INVESTIGATION OF SINTERING OF LOOSE POWDERS OF TIC AND ZRC 67-12 M09-83552

METAL POWDERS, CRYSTAL LATTICES
ON THE CRYSTAL LATTICE DEFECTS IN METALLIC FINE PARTICLES 67-02 M14-60143
THE EFFECT OF SMALL ADDITIONS AND IMPURITIES ON THE CRYSTALLINE LATTICE CONSTANT AND HEAT EXPANSION OF MOLYBDENUM 67-06 M13-70951
STACKING FAULTS IN NICKEL POWDERS 67-08 M13-75421

METAL POWDERS, DEPOSITION
SURFACE ROUGHNESS EFFECTS IN ELECTRODEPOSITION OF COPPER IN THE LIMITING CURRENT RANGE 67-03 M03-65424

METAL POWDERS, DIFFUSION
METHOD OF CHEMICAL-THERMAL TREATMENT OF METALS AND ALLOYS IN A HARD POWDER MIXTURE 67-02 M10-60798

METAL POWDERS, DISSOLVING
DISSOLUTION OF COMMERCIALLY AVAILABLE SILICON NITRIDE INTO LIQUID IRON 67-08 M14-75305

METAL POWDERS, ELECTROLYSIS
ELECTROLYZER FOR PREPARATION OF HYPERFINE POWDERY COPPER 67-02 M09-59613
STUDY OF PREPARATION OF NICKEL POWDER BY ELECTROLYSIS 67-02 M09-61701
CONDITIONS SURROUNDING CATHODIC DEPOSITION OF CERTAIN METAL POWDERS AT HIGH CURRENT DENSITIES 67-05 M09-68403
EFFECT OF ELECTROLYSIS CONDITIONS ON THE DISPERSION AND APPARENT DENSITY OF NICKEL POWDER 67-07 M09-73268
ELECTROLYTIC PRECIPITATION OF ZINC POWDERS FROM ZINCATE SOLUTIONS 67-08 M09-75203
INVESTIGATION OF THE ELECTROLYTIC PREPARATION OF NICKEL POWDER 67-08 M09-75846
CATHODE FOR OBTAINING COPPER POWDER BY ELECTROLYSIS 67-09 M09-76871

METAL POWDERS, EXTRACTION
FIRST COMMERCIAL-SCALE H2 REDUCTION PLANT FOR CU ON STREAM 67-04 M03-67496
IRON POWDER FROM PICKLING WASTES 67-06 M09-72214
ELECTROWINNING OF COPPER POWDER FROM COPPER-MOLYBDENUM AMMONIA SOLUTIONS 67-12 M03-83404

METAL POWDERS, EXTRUSION
SOME COEXTRUSION EXPERIMENTS OF ALUMINIUM CLADDED CERMETALLIC CORE RODS 67-04 M07-67246
EXTRUSION OF ELECTROLYTIC GRADE CR BERYLLIUM 67-04 M08-67888
PROPERTIES OF SINTERED ALUMINUM ALLOYS WITH A LOW COEFFICIENT OF LINEAR EXPANSION 67-04 M09-67122
RHEOLOGICAL PROPERTIES OF PLASTICIZED POWDER METAL CHARGE. PT. 3. CHARACTERISTICS OF EXTRUSION OF POWDER CHARGE 67-07 M09-72506
THE EXTRUSION OF METAL POWDERS 67-07 M09-73867
HYDROSTATIC EXTRUSION OF METAL POWDERS 67-07 M09-73869
EXTRUDABILITY OF KH18N15 STAINLESS STEEL POWDER 67-08 M09-74581
PROPERTIES OF A PLASTICIZED POWDER CHARGE AND LAWS OF ITS EXTRUSION 67-08 M09-74903
THE INTERACTION OF GRAPHITE WITH POWDERS OF VARIOUS ELEMENTS DURING EXTRUSION 67-08 M09-75452
HOT EXTRUSION OF METAL POWDERS 67-09 M09-77056

METAL POWDERS

INVESTIGATION OF STRUCTURAL AND MECHANICAL PROPERTIES OF PLASTICIZERS 67-10 M09-79340
METHOD OF PRESSING ARTICLES FROM POWDER 67-10 M09-79808
RHEOLOGICAL STUDIES OF PLASTICIZED POWDER CHARGE. PT. 3. LAWS OF EXTRUSION OF PLASTICIZED POWDER CHARGE 67-11 M09-80892

METAL POWDERS, FLUXES
APPLICATION POSSIBILITIES OF MECHANIZED WELDING USING METALLIC POWDER 67-04 M11-67219

METAL POWDERS, FORGING
HIGH-PRESSURE FORMING FOR PRODUCTION 67-02 M09-61107

METAL POWDERS, FORMING
HOT DYNAMIC PRESSING OF METAL POWDERS AND CHIPS 67-04 M09-66957
FACTORS AFFECTING THE COMPACTION OF IRON POWDER AND ITS MECHANICAL PROPERTIES 67-04 M09-66958
FABRICATION OF COMPLEX BERYLLIUM SHAPES BY GAS-PRESSURE COMPACTION 67-04 M09-67197
SOME METHODS OF MOLDING AND SINTERING CARBIDES 67-06 M09-70778
INFLUENCE OF THE GEOMETRICAL FACTOR OF SINTERED PARTS ON THE MAGNITUDE OF THEIR ELASTIC AFTER-EFFECT 67-09 M09-76921
EXPLOSIVE COMPACTION OF POWDERED MATERIALS 67-10 M09-79528

METAL POWDERS, HARDNESS
RELATIONSHIP BETWEEN MICROHARDNESS AND MICROBRITTLENESS OF REFRACTORY COMPOUNDS AND THEIR ELECTRON STRUCTURE 67-07 M09-72513

METAL POWDERS, HEAT TREATMENT
SOME PROCESSES OCCURRING DURING HEAT TREATMENT OF POWDER MATERIALS 67-02 M09-61637
EFFECTS OF ANNEALING TEMPERATURE ON THE SKELETON NICKEL STRUCTURE 67-04 M09-67864
CHANGES OF FINE STRUCTURE OF ALUMINUM POWDERS WHILE HEATING IN OXIDIZING AND INERT MEDIA 67-12 M09-82202
ACTIVATED SINTERING OF TUNGSTEN AND MOLYBDENUM POWDERS 67-12 M09-82209

METAL POWDERS, HOT PRESSING
USE OF THE METHOD OF DYNAMIC HOT PRESSING IN POWDER METALLURGY PRODUCTION 67-02 M09-61704

METAL POWDERS, MAGNETIC PROPERTIES
CORRELATION BETWEEN ELECTROMAGNETIC AND PHYSICOCHEMICAL PROPERTIES OF POWDERED CARBONYL IRON 67-02 M09-61706
ANISOTROPY DISTRIBUTION AND NATURAL FERROMAGNETIC RESONANCE IN SINGLE-DOMAIN PARTICLES OF FE AND FE-CO ALLOY 67-02 M15-62072
MAGNETIC SUSCEPTIBILITY CHANGES IN SILVER POWDERS DURING OXIDATION-REDUCTION CYCLING 67-05 M15-69032
RELATIONSHIP BETWEEN THE ELECTROMAGNETIC AND PHYSICOCHEMICAL PROPERTIES OF CARBONYL IRON POWDER 67-08 M09-75851
ANNEALING EFFECTS OF PARAMAGNETIC DEFECTS INTRODUCED NEAR SILICON SURFACE 67-08 M15-75055
EFFECT OF PARTICLE INTERACTION ON THE ANHYSTERETIC MAGNETIZATION PROCESS IN MAGNETITE POWDER 67-08 M15-75287
ANHYSTERETIC MAGNETIZATION PROCESS AND MOSSBAUER EFFECT IN IRON POWDER 67-11 M15-80936
THE EFFECT OF SURFACE ON THE PROPERTIES OF HIGHLY DISPERSED FERROMAGNETIC POWDERS 67-12 M15-82322

METAL POWDERS, MANUFACTURING
OBTAINING NIOBIUM AND NIOBIUM ALLOY POWDERS FROM DENSE METALS AND ALLOYS BY HYDROGENATION 67-01 M09-57277
METHOD OF PREPARING ALUMINUM POWDER 67-05 M09-69059
SINTERED STRUCTURAL MATERIALS 67-07 M09-72505

METAL POWDERS, MECHANICAL PROPERTIES
THE FATIGUE BEHAVIOR OF SINTERED MATERIALS. PT. 2 67-01 M17-58230
THE DEPENDENCE OF THE TECHNOLOGICAL PROPERTIES OF TANTALUM AND NIOBIUM ON THE PHYSICOCHEMICAL CHARACTERISTICS OF THEIR STARTING POWDERS 67-02 M09-62104
INVESTIGATION OF THE HEAT RESISTANCE OF BRITTLE POWDERED-METAL MATERIALS 67-02 M17-59874
SIMULTANEOUS DETERMINATION OF FRICTION, COMPRESSION DEFORMATION, AND THE TRUE AREA OF CONTACT OF POWDER MATERIALS 67-05 M17-69635
PRESSIBILITY OF SINTERED IRON 67-07 M17-72522
PLASTIC PROPERTIES OF THIN SHEET MOLYBDENUM AT VARIOUS DEFORMATION RATES 67-07 M17-73952
ELASTIC AFTEREFFECT DURING PRESSING OF TWO-COMPONENT METAL-CERAMIC MATERIALS 67-08 M09-74304
INVESTIGATION OF THE PROPERTIES OF MATERIALS OF COPPER POWDER, PRODUCED BY CEMENTATION FROM CHLORIDE SOLUTIONS 67-08 M09-74308
MECHANISM OF LIQUID PHASE SINTERING IN THE IRON-COPPER SYSTEM 67-08 M09-75389
OXYGEN ABSORPTION AND CREEP STRENGTH OF SINTERED NICKEL ALUMINIDE 67-09 M17-78193
CORRELATION OF MICROHARDNESS AND MICROBRITTLENESS OF REFRACTORY COMPOUNDS WITH THEIR ELECTRIC STRUCTURE 67-11 M09-80899
CORRELATION OF THE PHYSICOMECHANICAL PROPERTIES AND ELECTRONIC STRUCTURE OF DIFFUSION COATINGS 67-11 M17-80898

METAL POWDERS, METALLOGRAPHY
SOME INNOVATIONS AND OBSERVATIONS ON HIGH PRESSURE DIFFRACTOMETRY 67-01 M13-58762
THE DETERMINATION OF RETAINED AUSTENITE BY X-RAY DIFFRACTION 67-04 M19-66294
A METALLOGRAPHIC METHOD FOR THE DETERMINATION OF THE SPECIFIC AREA OF POWDER MATERIALS 67-05 M13-69608
METHOD FOR PRODUCING SINGLE-STEP CARBON REPLICAS FOR ELECTRON-MICROSCOPE INVESTIGATIONS OF LOW-SOLUBILITY AND POROUS POWDERS 67-05 M13-69627

METAL POWDERS, MICROSTRUCTURE
INVESTIGATION OF CARBONIZATION PROCESSES DURING GRAPHITIC IRON SINTERING 67-05 M09-68702
STRUCTURE FORMATION OF CARBONYL IRON POWDER 67-07 M13-73292
CARBURIZATION PROCESSES DURING THE SINTERING OF IRON-GRAPHITE MATERIALS 67-12 M09-82678

METAL POWDERS, OPTICAL PROPERTIES
BRIGHTNESS COEFFICIENTS OF METAL POWDERS 67-02 M09-62174
RELATIONSHIP BETWEEN A PORTION OF THE METALLIC SURFACE AND THE BRIGHTNESS COEFFICIENTS OF POWDERS 67-08 M15-75432
LUMINANCE FACTORS OF METAL POWDERS 67-08 M15-75950

METAL POWDERS, PHASES /STATE OF MATTER/
RESEARCH ON NOBLE METAL ALLOYS CONTAINING HIGHER ELECTROPOSITIVE ELEMENTS. PT. 10. HEAT OF FORMATION OF AL-AU ALLOYS 67-05 M09-69352

METAL POWDERS, PHYSICAL PROPERTIES
RELATIONS BETWEEN PORE STRUCTURE AND DENSIFICATION MECHANISM IN THE COMPACTING OF IRON POWDERS. PT. 2. THEORETICAL CONSIDERATIONS ABOUT THE CHANGE OF PORE SIZE DISTRIBUTION IN COMPACTING 67-05 M09-68946
NUCLEAR-MAGNETIC-RESONANCE AND X-RAY STUDY OF SOLUTE LOSS BY INTERNAL OXIDATION IN COMMINUTED AND VACUUM-ANNEALED CU-MN ALLOYS 67-07 M15-73938
PROPERTIES OF POWDERS AND POWDER METALLURGY PRODUCTS 67-08 M09-74811
RECENT DEVELOPMENTS IN ELECTRICAL CONDUCTOR MATERIALS. PT. 6 67-08 M20-74954
X-RAY STUDIES ON THE THERMAL EXPANSION OF COPPER-NICKEL ALLOYS 67-12 M15-81734

METAL POWDERS, PLATING
INCREASE IN STRENGTH OF POWDERED-METAL ALLOYS BY MEANS OF COPPER PLATING IRON POWDER 67-08 M09-75446

METAL POWDERS, POROSITY
MODELING OF A POROUS BODY AND DETERMINATION OF RELATIVE CROSS-SECTIONAL WEAKENING BY PORES 67-02 M09-61792

METAL POWDERS, POWDER METALLURGY
SINTERED METAL PRODUCTS 67-02 M09-59446
MICROSTRUCTURE AND PROPERTIES OF TUNGSTEN-CARBIDE-COBALT HARD ALLOYS, THEIR MUTUAL EFFECTS AND THEIR DEPENDENCY ON THE INITIAL POWDERS 67-02 M09-59914
ROLLING OF TUNGSTEN AND MOLYBDENUM AT LOW-PARTIAL PRESSURE OF OXYGEN 67-02 M09-61621
PRODUCTION OF IRON POWDER FROM ALLOY STEEL SCALE BY REDUCTION WITH CONVERTED NATURAL GAS 67-02 M09-62201
INFLUENCE OF GRAIN SIZE-PURITY RELATIONSHIPS ON THE ABILITY TO FABRICATE BERYLLIUM AND THE RESULTING MECHANICAL PROPERTIES 67-03 M09-65284
EFFECT OF SPHEROIDIZATION ON THE STRUCTURE AND PROPERTIES OF POWDERS 67-04 M09-67332
MECHANISM OF METALLIC CONTACT FORMATION IN SAP TYPE

ALLOYS 67-04 M09-67335
ISOSTATIC PRESSING EXTENDS POWDER METAL HORIZONS 67-05 M09-68305
OXYGEN CONTENT IN SINTERING METAL POWDERS--AN EXPERIMENTAL STUDY 67-05 M09-68394
A BREAKTHROUGH IN THE MAKING 67-06 M09-70679
BETEMA COMPACTING PRESSES FOR METAL POWDER 67-06 M09-71324
COMPACTING PROPERTIES OF POWDER MIXTURES 67-07 M09-73272
CARBONYL METHOD FOR PRODUCTION OF FINE AND UNIFORM IRON OXIDE POWDERS 67-08 M09-74301
THE KINETICS OF METALLIC ACTIVATION SINTERING OF TUNGSTEN 67-08 M09-75292
DESIGN FOR POWDER METALLURGY 67-08 M09-75611

METAL POWDERS, PRECIPITATION
INFLUENCE OF ANTIMONY ADDITION IN ELECTROLYTE ON PRECIPITATION OF COPPER POWDER 67-06 M09-72317

METAL POWDERS, PRESSING
INVESTIGATION OF VALUE OF LATERAL PRESSURE COEFFICIENT DURING PRESSING OF IRON POWDERS 67-02 M09-60174
INVESTIGATION OF COMPACTIBILITY OF HOT PRESSED MGO WITH VARIOUS ADDITIONS 67-02 M09-60177
SOME CHARACTERISTICS IN BEHAVIOR OF PURE OXIDES DURING PRESSING 67-02 M09-60596
THE FINE STRUCTURE OF REDUCED COPPER POWDER IN COMPACTS 67-02 M09-61624
NOVEL PRINCIPLES OF CALCULATION AND ANALYSIS OF POWDER COMPRESSION 67-02 M09-61628
DEPENDENCE OF COMPACTION PRESSURE ON THE RATIO OF THE COMPACTING SURFACE AREA AND THE AREA OF THE FRICTION SURFACE BETWEEN THE POWDER AND THE DIE WALLS 67-02 M09-61782
PROBLEMS IN THE EXTRUSION OF TUBES FROM A VISCOPLASTIC CHARGE 67-02 M09-62122
INVESTIGATION OF EQUATIONS OF POROUS MATERIAL COMPACTION 67-02 M09-62176
FABRICATION OF COMPLEX BERYLLIUM SHAPES BY GAS-PRESSURE COMPACTION 67-03 M09-65292
MANUFACTURING PROCESS OF POWDERED-METAL ARTICLES 67-05 M09-69058
SINTERING OF METAL POWDER STRUCTURAL MATERIALS BY INDUCTION HEATING 67-07 M09-72503
INVESTIGATION OF LATERAL PRESSURE UNDER SMALL PRESSING FORCE 67-08 M09-74303
INVESTIGATION OF THE EQUATIONS OF COMPACTION OF POROUS MATERIALS 67-08 M09-75952

METAL POWDERS, QUALITY CONTROL
MEASUREMENT OF THE SURFACE AREA OF POWDERS BY CONDENSING NITROGEN FROM A GAS STREAM 67-12 M09-83460

METAL POWDERS, REACTIONS /CHEMICAL/
BRIDGING THE DISCIPLINES 67-05 M03-69140
KINETICS OF DEGASSING OF ALUMINUM POWDERS 67-05 M09-68701
EFFECT OF AGING TIME ON PROGRESS OF CHEMICAL REACTIONS BETWEEN POWDERED BRASS SURFACES AND STEARIC ACID 67-05 M09-69280
FORMATION OF HOLLOW WHISKERS FROM METALS BY REACTION WITH FERICYANIDE AND FERROCYANIDE 67-05 M14-69427
SULFURIZATION OF AG POWDER AND SECTIONS BY H2S AT LOW PRESSURE 67-05 M15-69136
DTA AND X-RAY STUDIES OF ELECTROLESS NICKEL 67-07 M14-73451
ON THE DECOMPOSITION OF CRO2 IN AIR 67-08 M14-76000
THE KINETICS AND MECHANISM OF FLUORINATION OF COPPER OXIDE. PT. 2. THE REACTION OF FLUORINE WITH COPPER --I-- OXIDE 67-09 M14-76599
PREPARATION AND PROPERTIES OF SOME GROUPS V AND VI COMPOUNDS OF PLUTONIUM 67-09 M15-76343
THE PREPARATION OF THE NITRIDES OF CHROMIUM 67-10 M05-78877
KINETICS OF DEGASSING OF ALUMINUM POWDERS 67-12 M09-82677

METAL POWDERS, RECOVERING
PRODUCTION OF METAL POWDER FROM ABRASIVE METAL SLURRY 67-09 M09-76572

METAL POWDERS, RECRYSTALLIZATION /METALLURGICAL/
RECRYSTALLIZATION OF NICKEL POWDERS 67-01 M14-57359

METAL POWDERS, REDUCTION /CHEMICAL/
MANUFACTURING OF IRON POWDER BY DIRECT REDUCTION WITH NATURAL GAS 67-02 M09-59611
PRODUCING NIOBIUM CARBIDE WITH A LOW NITROGEN CONTENT 67-02 M09-62054
ON THE DIRECT REDUCTION OF IRON OXIDES WITH METHANE IN DIFFERENT TECHNOLOGICAL VARIANTS 67-04 M04-68143
CARBON, SULFUR AND OXYGEN IMPURITIES IN IRON POWDER IN RELATION TO CONDITIONS OF REDUCTION BY SOLID CARBON 67-06 M09-69966
COMBINED REDUCTION OF IRON SCALE IN VERTICAL, CONTINUOUS-TYPE MUFFLE FURNACE 67-07 M09-72501
TECHNIQUES FOR THE PRODUCTION OF CHROMIUM STEEL AND NICHROME, HARDENED BY FINE REFRACTORY OXIDES 67-08 M09-75461
PRODUCTION SCALE TECHNOLOGY FOR IRON POWDER AT THE BROVARSK FACTORY 67-12 M09-83563

METAL POWDERS, REFINING
METHOD OF OBTAINING IRON BY ELECTROLYSIS OF FUSED SALTS WITH CONSUMABLE ANODES 67-06 M04-70948
INFLUENCE OF DEGASSING ATMOSPHERE OF ALUMINUM POWDER ON REABSORPTION OF MOISTURE 67-11 M09-80758

METAL POWDERS, ROLLING
POWDER MOVEMENT DURING VERTICAL ROLLING 67-01 M09-58191
ANALYTICAL DETERMINATION OF SPECIFIC PRESSURE DURING ROLLING OF METAL POWDERS 67-02 M09-59602
INCREASING THE COMPACTING RATE OF MOISTENED METAL POWDERS 67-02 M09-59604
STORAGE BATTERY ELECTRODES MADE BY ROLLING CARBONYL NICKEL POWDER 67-02 M09-62202
ON THE ASSESSMENT OF SOME FACTORS INVOLVED IN ROLLING METAL POWDERS 67-02 M09-62204
ROLLING ALUMINUM POWDER INTO COILED DENSE-EDGE STRIP 67-04 M09-66841
THE ROLLING OF WATER-PULVERIZED KANTHAL FE ALLOY POWDER 67-06 M09-71740
CALCULATION OF TERMINAL FEED ANGLE DURING VERTICAL ROLLING OF POWDERS 67-06 M09-72318
ROLLING TEXTURE OF SINTERED COPPER 67-06 M09-72321
MANUFACTURE OF BRONZE-GRAPHITE STRIPS BY POWDER ROLLING 67-07 M09-72502
SOME PROBLEMS IN SINTERING AND COMPACTION OF STOCK ROLLED FROM POWDERS 67-07 M09-73031
THE PRODUCTION AND PROPERTIES OF DUCTILE COBALT STRIP 67-07 M09-73826
TEMPERATURE AND SPEED FACTORS DURING HOT ROLLING OF METAL POWDERS 67-08 M09-74900
ON SOME VERSIONS OF ROLLING METAL POWDERS 67-08 M09-74902
METHODS AND SPECIAL FEATURES OF ROLLING BIMETALLIC STRIPS FROM METAL POWDERS 67-08 M09-74904
ROLL COMPACTING OF ALUMINUM-CLAD SINTERED STRIP 67-08 M09-74915
STRESS ANALYSIS DURING ROLLING OF METAL POWDERS 67-08 M09-75425
ANALYTICAL DETERMINATION OF SPECIFIC PRESSURE DURING THE ROLLING OF METAL POWDERS 67-09 M09-76920
EXTENDING THE POWDER ROLLING VELOCITY RANGE BY POWDER WETTING 67-09 M09-76922
EXPERIENCE WITH THE PRODUCTION OF BRONZE-GRAPHITE STRIP BY POWDER ROLLING 67-11 M09-80888
ELASTIC DEFORMATION OF ROLLS IN METAL POWDER ROLLING 67-12 M09-82206
INFLUENCE OF AIR ON THE ROLLING PROCESS OF METAL POWDERS 67-12 M09-83564

METAL POWDERS, SCREENING /SIZING/
SEPARATION OF TUNGSTEN POWDER 67-07 M09-72865

METAL POWDERS, SEPARATION
SEPARATION OF TUNGSTEN POWDER INTO FRACTIONS, USING A FLUIDIZED BED 67-12 M09-82173

METAL POWDERS, SIEVE ANALYSIS
A NEW TECHNIQUE FOR FRACTIONATING POWDERS 67-06 M09-71799

METAL POWDERS, SINTERING
ATOMIZING TECHNIQUES AS AUXILIARY MEANS IN THE POWDER SINTERING PROCESS 67-02 M09-58932
AN ANALYSIS OF SHRINKAGE KINETICS DURING SINTERING OF REDUCED CHROMIUM POWDER 67-02 M09-59605
INFLUENCE OF NI, CO AND MN ADDITIONS ON ACTIVATION OF SINTERING OF IRON POWDERS. PT. 2 67-02 M09-59606
EFFECT OF NICKEL, COBALT AND MANGANESE ACTIVATORS ON ACTIVATION OF CERMET IRON SINTERING. PT. 1 67-02 M09-60176
TRENDS IN THE DEVELOPMENT OF SINTERED MATERIALS 67-02 M09-60205

METAL POWDERS

SINTERING OF CERMET PISTON RINGS BY HIGH-FREQUENCY CURRENTS 67-02 M09-61638
THE EFFECT OF THE PARTICLE SIZE OF ALUMINUM POWDER ON THE SINTERING OF A CU-AL ALLOY IN THE PRESENCE OF A LIQUID PHASE 67-02 M09-61783
THE SINTERABILITY OF CHROMIUM POWDER 67-02 M09-61784
EFFECT OF SMALL ADDITIONS OF COPPER ON SINTERING OF STAINLESS STEEL 67-04 M09-66094
SOME REGULAR FEATURES IN THE SINTERING OF POROUS PARTS FROM HIGH-MELTING-POINT COMPOUNDS 67-06 M09-70766
SINTERED MATERIALS AND COMPONENTS. PROPERTIES OF MATERIALS PRODUCED BY EXTRUDING AND SINTERING PLASTICIZED POWDER MIXTURES 67-06 M09-70960
ACTIVATED SINTERING OF TUNGSTEN WITH SMALL ADDITIONS OF NICKEL 67-06 M09-71459
SINTERING OF METAL POWDER PARTS PRODUCED BY EXPLOSIVE COMPACTION 67-07 M09-73269
MUTUAL SINTERING OF GRAINS OF NONSPHERICAL FORM 67-08 M09-75426

METAL POWDERS, SPECIFIC SURFACE
CALCULATED AND ACTUAL SURFACE OF POWDERS 67-06 M09-70212

METAL POWDERS, SPHEROIDIZING
POSSIBILITY OF OBTAINING LARGE SPHERICAL PARTICLES BY PERPENDICULAR FEEDING OF FINE POWDER INTO A PLASMA JET 67-04 M09-67331

METAL POWDERS, SURFACE PROPERTIES
DETERMINATION OF THE RELATIVE DISPERSION OF SOME METAL POWDERS 67-02 M09-62107
SORPTION PROPERTIES OF METAL POWDERS 67-02 M18-62101
DETERMINATION OF THE SPECIFIC SURFACE --PARTICLE SIZE-- OF POWDERS FROM THE RATIO OF FLOW RATES MEASURED UNDER DIFFERENT CONDITIONS OF GAS FLOW IN A POROUS MEDIUM 67-06 M09-70964
DETERMINATION OF POWDER SPECIFIC SURFACE BY FILTRATION OF RAREFIED GAS 67-08 M09-75420

METAL POWDERS, THERMAL PROPERTIES
REGULARITIES OF THERMAL STABILITY OF OXIDES OF TRANSITION METALS 67-07 M15-72511
SPONTANEOUS HEATING OF POROUS MATERIALS DURING OXIDATION 67-08 M09-75852
THERMOPHYSICAL CONSTANTS OF POROUS POWDER METALLURGY MATERIALS 67-10 M15-79344
REGULARITIES GOVERNING THE THERMAL STABILITY OF OXIDES OF THE TRANSITION METALS 67-11 M15-80897

METAL POWDERS, WELDING
DEPOSITION OF METAL ON THE WORKING SURFACES OF MACHINE TOOL COMPONENTS 67-02 M11-61063
AUTOMATIC WELDING WITH ADDITION OF IRON PELLETS 67-06 M11-71853
THE WELDING OF SAP 67-07 M11-73468
AUTOMATIC WELDING WITH IRON PELLETS ADDED 67-11 M11-80885

METAL POWDERS, WELDING ELECTRODES
WELDING OF STEEL STRIP IN THE PRODUCTION OF CORED ELECTRODES 67-02 M11-60017

METAL POWDERS, X RAY ANALYSIS
AN X-RAY STUDY OF COPPER POWDER 67-12 M13-81735

METAL PROCESSING LUBRICANTS
LUBRICATION IN THE CONTINUOUS CASTING PROCESS 67-04 M04-67752
LUBRICATION AND FORMABILITY IN SHEET METAL WORKING 67-04 M08-66143
STUDY ON THE PITTING IN ROLLING CONTACT. PT. 1. ON THE MECHANISM OF THE PITTING OCCURRENCE 67-05 M18-69371
EVALUATION OF STEEL WIRE DRAWING LUBRICANTS USING RADIO ISOTOPE P32 67-06 M07-71136
THE EFFECTS OF LUBRICATION ON THE PRESS FORMING LIMITS OF SHEET METALS 67-06 M08-72263

METAL PROTECTION
PRACTICAL TECHNIQUES FOR EFFICIENT LUBRICATION USING FRICTION-RESISTANT LACQUERS 67-01 M12-58386

METAL ROLLING
SEE ALSO AUSROLLING
COLD ROLLING
CONTINUOUS ROLLING
CROSS ROLLING
HOT ROLLING
PACK ROLLING
PLUG ROLLING
ROLL PLANISHING
SANDWICH ROLLING
SKIN PASS ROLLING
TENSION ROLLING
OPERATION AND USE OF DATA PROCESSING PLANTS IN ROLLING MILLS 67-01 M07-58110
THE PROCESSING OF CONTINUOUSLY CAST BILLETS INTO BARS AND SHAPES 67-08 M07-75113
EXPERIENCE WITH A RADIOMETRIC THICKNESS GAGE FOR PLATES IN THE OLBERNHAU SHEET ROLLING MILL 67-08 M19-74450
INCREASING THE FATIGUE LIMIT OF FRICTION-WELDED JOINTS 67-12 M17-81915

METAL SCRAP
SEE ALSO SCRAP IRON
HOT BRIQUETTING--THE CHARGE IS ON 67-09 M02-76447

METAL SCRAP, CHARGING
CALCULATING THE COOLING EFFECTS OF IRON ORE AND A THERMAL FACTOR FOR CONVERTING FROM ORE TO SCRAP METAL 67-04 M04-66707
EFFECT OF SCRAP QUALITY AND CHARGING CONDITIONS ON THE PERFORMANCE AND COSTS OF AN OPENHEARTH FURNACE 67-04 M04-68006
HIGH SCRAP CHARGE IN THE BOF UTILIZING SOLID FUEL 67-04 M04-68108

METAL SCRAP, CHEMICAL ANALYSIS
CONTROL OF SCRAP COMPOSITION FOR ALLOY STEELS PRODUCTION 67-08 M04-75984

METAL SCRAP, MELTING
EFFECT OF SCRAP DENSITY ON SLAG CONDITIONS DURING THE MELTING PERIOD 67-04 M04-66078
USE OF STEEL CHIPS DURING STEEL MELTING 67-04 M04-67501
MATERIAL AND THERMAL BALANCE OF OXYGEN CONVERTERS 67-05 M04-68460
COMMERCIAL TESTS ON THE PRODUCTION OF 75 PER CENT FERROSILICON USING TRANSFORMER STEEL SCRAP INSTEAD OF STEEL CHIPS 67-05 M04-69688
ON THE MELTING RATES OF SCRAP AND COLD PIG IRON IN THE BASIC OXYGEN LD PROCESS 67-06 M04-72382
MELTING MAGNESIUM CHIPS AND MAGNESIUM ALLOYS WITH FL5 FLUX 67-07 M03-73421
PRODUCING STEEL IN ELECTRIC FURNACES USING STEEL CHIP BRIQUETS 67-08 M04-75187
HOW SCRAP AMOUNTS AFFECT THE WORK OF AN OXYGEN-INTENSIFIED OPENHEARTH FURNACE 67-12 M04-81780
SCRAP MELTING IN THE OXYGEN CONVERTER PROCESS 67-12 M04-81863
PREHEATING AND MELTING OF SCRAP AND PIG IRON WITH AN OIL-OXYGEN BURNER IN THE OXYGEN CONVERTER 67-12 M04-81950

METAL SCRAP, POWDER METALLURGY
METHOD OF PREPARING ALUMINUM POWDER 67-05 M09-69059

METAL SCRAP, PRESSING
PRODUCING BRIQUETTES FROM SHAVINGS AND SLURRY 67-02 M02-62157
CHIPS AND SLUDGE MADE INTO BRIQUETTES 67-04 M02-68199

METAL SCRAP, RECOVERING
HYDRATION OF TITANIUM ALLOY SCRAP 67-06 M03-71310

METAL SCRAP, REFINING
ENERGY BALANCE OF AN EXPERIMENTAL-INDUSTRIAL ELECTROLYZER USED IN TRIPLE-LAYER REFINING OF MAGNESIUM ALLOY SCRAP AND WASTE PRODUCTS 67-02 M03-62218
ELECTROLYTIC RECOVERY OF TIN FROM TIN-PLATE SCRAP 67-04 M03-66306

METAL SCRAP, STEEL MAKING
HIGH-DENSITY PREPARATION OF HOME SCRAP FOR OPEN HEARTH FURNACES 67-03 M04-65503
PROPERTIES AND EFFECTS OF VARIOUS COMMERCIAL SCRAP GRADES 67-03 M04-65504
KINETICS OF MELTING OF STEEL SCRAP IN LARGE OPEN-HEARTH FURNACES 67-04 M04-66205

METAL SCRAP PREPARATION
DEVELOPMENT OF RAPID CHARGING OF OH FURNACES AT GKIS 67-06 M04-72100
CONTROL OF SCRAP COMPOSITION FOR CARBON STEELS 67-07 M04-72414
SCRAP PREPARATION AND ITS SIGNIFICANCE IN OPENHEARTH STEELMAKING 67-07 M04-73237
CONTROL OF SCRAP COMPOSITION FOR ALLOY STEELS PRODUCTION 67-08 M04-75984
HOT BRIQUETTING--THE CHARGE IS ON 67-09 M02-76447
ALLOYS FOR STAINLESS STEEL 67-09 M04-77581

METAL SPINNING

SEE SPINNING /METALS/

METAL SPONGE
SEE SPONGE METAL

METAL SPRAYING
INVESTIGATION CONCERNING INFLUENCE OF METAL SPRAYING ON BENDING FATIGUE STRENGTH OF CARBON STEEL SHAFTS 67-04 M11-68015

METAL SPRAYING
THE FIGHT AGAINST WEAR. HARD SURFACING ALLOYS IN
THE FIGHT AGAINST WEAR. HARD SURFACING ALLOYS IN THE GLASS INDUSTRY
THE GLASS INDUSTRY 67-05 M20-69359
AN INVESTIGATION OF THE HETEROGENEOUS P-N JUNCTION BETWEEN SELENIUM AND VARIOUS SELENIDES 67-06 M16-71195
NEW DEVELOPMENTS IN CORROSION PROTECTION AT CHEMICAL PLANTS BY METAL SPRAYING --METALLIZATION-- 67-07 M12-73725
THE PRESENT STATE OF METAL SPRAYING TECHNIQUES 67-07 M12-74020
THE PAINTING OF METAL-SPRAYED STRUCTURAL STEEL 67-07 M18-73641
CORROSION PREVENTION IN CONTACT SULPHURIC ACID PLANT EQUIPMENT 67-09 M12-78099
THE USE OF SPRAY COATING WITH ALUMINUM-COPPER PSEUDOALLOYS FOR SLIDING FRICTION BEARINGS 67-10 M12-78370

METAL STRAIGHTENING
SEE METAL WORKING
STRAIGHTENING

METAL VAPORS, PHYSICAL PROPERTIES
MOLECULAR COMPOSITION OF BISMUTH VAPOR 67-04 M15-67823

METAL VAPORS, REACTIONS /CHEMICAL/
REACTION OF ALUMINA WITH CESIUM VAPOR 67-04 M14-67759

METAL VAPORS, TRANSPORT PROPERTIES
THERMIONIC PROPERTIES OF TUNGSTEN IN IODIDE VAPORS 67-09 M16-76481

METAL WORKING
THE WAUNARLWYDD WORKS MODERNISATION PROGRAMME 67-01 M01-58580
DEVELOPMENT TRENDS IN METALLIC MATERIALS 67-02 M01-60203
PROBLEMS OF FORMING LARGE LIGHT ALLOY PARTS FOR A SUPERSONIC AIRPLANE 67-02 M20-61997
THIN-WALLED M-40 ALLOY PIPES 67-04 M07-66831
AIR FORCE SEEKS METALWORKING ADVANCES 67-05 M09-68342
EXTENDING THE POSSIBLE IN METALWORKING 67-06 M01-72243
BERYLLIUM INGOT SHEET AND OTHER WROUGHT FORMS 67-07 M17-73762
FABRICATION OF CHROMIUM-BASE ALLOYS 67-08 M01-74515
ALUMINUM. V. 1. PROPERTIES, PHYSICAL METALLURGY AND PHASE DIAGRAMS. V. 2. DESIGN AND APPLICATIONS. V. 3. FABRICATION AND FINISHING 67-08 M01-74801
METALWORKING 67-08 M07-75497
CORRECT DESIGN IN SHEET METALWORKING 67-09 M08-77940
THEORETICAL DETERMINATION OF DIE FORCE IN BENDING OF SHEET METAL IN U-SHAPED DIES 67-09 M08-77941
DEVELOPMENTS IN DIE PUNCHING TECHNOLOGY. PT. 3 67-09 M08-77944
SEVENTH STATUS REPORT OF THE U. S. GOVERNMENT METALWORKING PROCESSES AND EQUIPMENT PROGRAM 67-10 M01-79734
THE CORRELATION BETWEEN THE STRUCTURE OF METAL AND THE CONDITIONS UNDER WHICH IT WORKS 67-10 M13-78378
STATUS OF GROUP FORMING AND CUTTING TOOLS FOR SHEET-METAL WORKING 67-11 M08-80399

METAL WORKING, QUALITY CONTROL
FLAW-MEASURING ULTRASONIC INSPECTION OF SEMIFINISHED METAL PRODUCTS 67-04 M19-67665

METAL WORKING, ULTRASONICS
A CRITICAL LOOK AT ULTRASONIC METALWORKING PROCESSES 67-03 M08-65620

METALIZING
SEE METALLIZING

METALLIC ANION COMPOUNDS
SEE ALUMINATES

METALLIC COMPOUNDS
SEE MERCURY COMPOUNDS

METALLIC SEALS
GROOVED METALLIC SEAL FOR HELIUM PRESSURE VESSEL 67-05 M20-68504
METALLIC GASKETS 67-06 M20-72014
O-RING TYPES 67-06 M20-72015

METALLIFEROUS MINERALS
SEE ALSO ALUMINUM ORES
BAUXITE
CASSITERITE
CHALCOPYRITE
COPPER ORES
GALENA
HEMATITE
ILMENITE
IRON ORES
LEAD ORES
MAGNETITE
MANGANESE ORES
NICKEL ORES
PYRITE
PYRRHOTITE
RUTILE
SIDERITE
SPHALERITE
TACONITE
TIN ORES
TITANIUM ORES
URANIUM ORES
ZINC ORES
ZIRCON
EXTRACTION METALLURGY 67-01 M01-58663

METALLIFEROUS MINERALS, BENEFICIATION
METHOD FOR THE BENEFICIATION OF SLURRIES OF RARE, NONFERROUS AND PRECIOUS METAL ORES 67-02 M02-58886
INVESTIGATION OF THE FLOTATION BEHAVIOR OF TUNGSTEN MINERALS WITH SPECIAL CONSIDERATION OF GRAIN SIZE 67-02 M02-62249
VOLATILIZING ROASTING OF LEAN OXIDIZED-SULFIDE ANTIMONY ORE BY AN AIR SUCTION METHOD 67-02 M03-59843
THE SULFURIC ACID METHOD OF COMPLEX PROCESSING LOCAL SERPENTINES 67-05 M02-69302
USE OF ZINCATES FOR THE FLOTATION OF POLYMETALLIC ORES 67-05 M02-69309
INDUSTRIAL TESTING OF DZHIZHIKRUT ORE BENEFICIATION SYSTEM 67-06 M02-70187
PROCESSING 2ND GRADE MANGANESE ORES BY THE MONOCHARGE METHOD 67-06 M04-70372
AUTOMATIC PULP DENSITY MONITORING WITH THE RRP-605 ISOTOPE RELAY 67-06 M19-71342
THE STATE-OF-THE-ART TUNGSTEN AND SCHEELITE --CAWO4-- ORE DRESSING AT THE TUX PLANT AS PRACTICED BY OAMAG 67-07 M02-73728
FLOTATION PROPERTIES OF RARE METAL MINERALS 67-08 M02-75165
A ONE-STEP OPERATION FOR RECOVERY OF MANGANESE AS CHLORIDE FROM ORES AND SLAGS 67-08 M03-74673
HEAVY LIQUID CYCLONE CONCENTRATION OF MINERALS. PT. 1. A STUDY OF LIQUID CYCLONE VARIABLES INFLUENCING THE CONCENTRATION OF MINERALS 67-08 M03-75777

METALLIFEROUS MINERALS, CHEMICAL ANALYSIS
APPLICATION OF OPTICAL EMISSION SPECTROMETRY TO THE ANALYSIS OF NONMETALLIC SPECIMENS IN THE IRON AND STEEL INDUSTRY 67-02 M19-61961
METHODS OF DETERMINING GOLD AND SILVER IN RICH PRODUCTS 67-05 M19-68409
THE DETERMINATION OF PB, ZN, CU, AS AND S IN SULFIDE ORES BY X-RAY SPECTROMETRY 67-11 M19-80346

METALLIFEROUS MINERALS, ELECTROREFINING
TREATING DROSS BY ANODIC DISSOLUTION IN SULFAMINE ELECTROLYTE 67-06 M03-71345

METALLIFEROUS MINERALS, FLOTATION
FLOTATION OF MOLYBDENUM ORE BY COUNTERFLOW 67-02 M02-61275

METALLIFEROUS MINERALS, MELTING
USE OF A MULTINOZZLE TUYERE FOR BLOWING A HIGH-MANGANESE IRON TO YIELD STEEL AND HIGH-MANGANOUS SLAG 67-11 M04-81620

METALLIFEROUS MINERALS, PELLETING
KINETICS OF DRYING PELLETS FROM SULFIDIC CU-NI CONCENTRATE 67-05 M02-68226

METALLIFEROUS MINERALS, SINTERING
HEAT BALANCE FOR PRODUCING MERCURY BY SINTERING ORE IN A TUBULAR FURNACE 67-06 M03-70206

METALLIFEROUS MINERALS, SMELTING
FUMING TIN-BEARING RAW MATERIAL 67-02 M03-61278

METALLIZING

SEE ALSO VACUUM METALLIZING
GUN METALLIZING 67-01 M12-58431
APPLICATIONS OF METALLIZING IN THE STEEL MILL 67-01 M18-57163
VACUUM METALLIZING OF POLYMER POWDERS. THERMAL AND ELECTRIC PROPERTIES OF PREPARED COMPOSITES 67-02 M09-61703
METALLIC COATINGS ON PAPER AND PLASTICS 67-02 M12-60045
HOW TO METALLIZE PLASTICS 67-02 M12-61109
COMMERCIAL PROSPECTS OF PLATING ON A.B.S. PLASTICS 67-03 M12-65154
METALLIZING DEVELOPMENTS UTILIZING STABILIZED METHYLACETYLENE PROPADIENE 67-03 M12-65298
NEW PROCESS FOR ELECTROPLATING ON POLYPROPYLENE 67-03 M12-65327
CERAMIC-TO-METAL JOINTS 67-04 M11-66288
METALLIZING. PT. 6, 7 AND 8. PLASTIC COATINGS, METAL COATING APPLICATIONS, PERSONNEL AND HYGIENE 67-04 M12-66657
COATING PLASTICS WITH METALS 67-04 M12-66690
THEORY AND PRACTICE OF ELECTROPLATING A. B. S. PLASTICS 67-04 M12-67750
THE ELECTROPLATING OF PLASTICS 67-04 M12-68060
PLATINUM AND PALLADIUM METALLIZING PREPARATIONS 67-05 M12-69731
SPRAYED ZINC FINISH--LONGER FURNITURE LIFE 67-05 M12-69875
THE AUTOGENOUS TECHNIQUES-INCREASING APPLICATION TO REINFORCING CONCRETE CONSTRUCTION 67-05 M20-69350
METALLIZING. PT. 9 67-06 M12-72136
APPARATUS FOR METALLIZING AND ELECTRON BEAM EVAPORATION 67-06 M12-72313
METAL COATED WHISKERS 67-07 M09-73361
METALLIZING PLASTICS 67-07 M12-72486
THE FREEZE-COATING OF FILAMENTS 67-07 M12-72887
NEW DEVELOPMENTS IN CORROSION PROTECTION AT CHEMICAL PLANTS BY METAL SPRAYING --METALLIZATION-- 67-07 M12-73725
METALLIZING CERAMICS FOR MERAMIC-TO-METAL SEALS 67-07 M12-74101
VACUUM METALLIZATION OF POLYMER POWDERS-- PREPARATION OF POWDERS AND THEIR THERMOMECHANICAL AND ELECTRICAL PROPERTIES 67-08 M09-75848
THE IMPORTANCE OF MOULDING CONDITIONS TO THE QUALITY OF ELECTROPLATED ABS PLASTICS 67-09 M12-77537
INFLUENCES OF THERMOPLASTIC CONVERSION OF A B S POLYMERS ON THE SUBSEQUENT CHEMICAL-ELECTROLYTIC METAL DEPOSITION 67-09 M12-77538
METAL PLATING OF A B S AND OTHER POLYMERS 67-09 M12-77539
THERMAL ELECTRON BEAM MACHINING OF DIAMOND AND ALUMINA CERAMICS 67-10 M08-79507
THE USE OF SPRAY COATING WITH ALUMINUM-COPPER PSEUDOALLOYS FOR SLIDING FRICTION BEARINGS 67-10 M12-78370
FORMATION OF COATINGS DURING METALLIZING OF TUNGSTEN ONTO GRAPHITE 67-10 M12-78405
METALLIDING--NEW SYSTEM FOR SURFACE COATING 67-10 M12-78880
THE METALLIZATION OF AL ALLOYS 67-10 M12-79890
METALLIZATION. PT. 9 67-10 M12-79891
AN APPARATUS FOR SPRAY COATING WITH AN ELECTRON BEAM VAPORISER 67-11 M12-81585

METALLOGRAPHIC STRUCTURES
SEE MICROSTRUCTURE

METALLOGRAPHY
SEE ALSO ETCH PITTING
MECHANICAL POLISHING
STRUCTURE AND PHASE COMPOSITION OF DIFFUSION LAYER IN BIMETALLIC IRON-ALUMINUM CASTINGS 67-01 M13-57190
REPLICATION OF FINE STRUCTURE IN MARTENSITE 67-01 M13-57429
METHODS OF EXPOSING HETEROGENEITIES IN SILICON SINGLE CRYSTALS 67-01 M13-57648
OPTICAL INVESTIGATION OF SURFACES USING REPLICA FILMS 67-01 M13-58009
SURFACE PREPARATION AND ITS EFFECT ON THE RESULTS OF ELECTRON-BEAM MICROANALYSIS 67-01 M13-58336
THE OBSERVATION OF MAGNETIC MICROSTRUCTURES AS A METALLOGRAPHIC EXAMINATION METHOD 67-01 M13-58396
ELECTROLYTIC ETCHING OF ALLOYED STEEL WELDINGS 67-01 M13-58398
A TECHNIQUE FOR PREPARING SAMPLES OF SMALL FRAGILE PARTICLES FOR ELECTRON MICROSCOPE EXAMINATION BY MEANS OF REPLICAS 67-01 M13-58543
ON THE ORGIN AND IDENTITY OF THE OXIDE PLATELETS OBSERVED IN TANTALUM AFTER OXIDATION 67-01 M14-57426
METHOD OF EXPOSING THE MICROSTRUCTURE OF MANGANESE ALLOYS 67-02 M13-58830
METALLURGICAL LABORATORY PROCEDURES 67-02 M13-58922
ON THE DETERMINATION OF THE NUMBER, SIZE, SPACING, AND VOLUME FRACTION OF SPHERICAL SECOND-PHASE PARTICLES FROM EXTRACTION REPLICAS 67-02 M13-59422
THE PREPARATION OF TITANIUM FOR TRANSMISSION ELECTRON MICROSCOPY 67-02 M13-59439
COLOR METALLOGRAPHY IN BLACK AND WHITE 67-02 M13-59440
ETCH PITTING ON DISLOCATIONS IN COPPER SINGLE CRYSTALS BY POTENTIOSTATIC ELECTROLYSIS 67-02 M13-60117
X-RAY STRUCTURAL AND METALLOGRAPHIC INVESTIGATIONS OF NB-CO-C ALLOYS 67-02 M13-60741
EXHIBITING THE FERRITE STRUCTURE IN 18-8 STAINLESS STEELS BY ELECTROLYTIC POLISHING 67-02 M13-60748
NEW METALLOGRAPHIC METHOD FOR REVEALING MAGNETIC PATTERNS IN FERRITE 67-02 M13-60749
THE ISOTHERMIC SHIFT AT ORDINARY TEMPERATURE OF THE URANIUM-CARBON-SILICON DIAGRAM 67-02 M13-61023
A NEW CHEMICAL POLISHANT FOR ZINC 67-02 M13-61297
ENHANCED GAAS ETCH RATES NEAR THE EDGES OF A PROTECTIVE MASK 67-02 M13-61772
DISLOCATIONS IN ANTIMONY CRYSTALS. PT. 1. DETECTION OF DISLOCATIONS BY ETCHING --111-- PLANES IN A NEW ETCHANT 67-02 M13-61893
METALLOGRAPHY OF CERIUM AND LANTHANUM 67-02 M13-62061
SEPARATION OF INTERMETALLIC PHASE AND CARBIDE PHASE IN NI-CR-TI-AL-C ALLOY 67-02 M13-62187
A METALLOGRAPHIC STUDY OF PRECIPITATION IN A NI-12.7 AT. PER CENT AL ALLOY 67-02 M14-60642
PRESENTATION OF FRENCH WORKS ON ELECTRON MICROFRACTOGRAPH 67-02 M17-60658
THE ABSOLUTE DETERMINATION OF THE THICKNESS AND COMPOSITION OF SURFACE LAYERS WITH A MICROPROBE 67-02 M19-59087
IDENTIFICATION OF NONMETALLIC INCLUSIONS IN STEELS BY THE POLISHED THIN SECTION AND X-RAY MICROANALYSER 67-02 M19-59155
ETCHING OF COPPER AND ITS ALLOYS 67-03 M13-65041
METHODS OF STUDYING TEXTURE IN ELECTROLYTIC DEPOSITS 67-03 M13-65105
IMPROVING THE PRECISION OF THE CRYSTALLOGRAPHIC ORIENTATION AND RECIPROCAL DISORIENTATION OF MICROPARTICLES IN AN ELECTRON MICROSCOPIC OBJECT 67-03 M13-65603
NONMETALLIC INCLUSIONS IN THE FE-P-O SYSTEM 67-03 M13-65776
THE INFLUENCE OF FOREIGN METAL IONS IN CHROMIC AND PHOSPHORIC ACID ELECTROLYTES ON THE FORMATION OF ETCH FIGURES ON IRON-SILICON FILMS 67-03 M13-65903
ANODIC OXIDATION OF NB-SN ALLOYS 67-03 M13-65904
THE ETCHING OF BI--2-Y--SBYTEXSE--3-X-- 67-03 M13-65905
THE ENCOUNTER MECHANISM IN GRAIN GROWTH 67-03 M14-65005
BERYLLIUM AS A TECHNOLOGICAL MATERIAL 67-03 M17-65273
MODERN TECHNIQUES IN METALLOGRAPHY 67-04 M01-67785
TH-THC PHASE DIAGRAM 67-04 M13-66274
OBTAINING THIN FOIL FROM WELDED JOINT METAL FOR STUDY OF DISLOCATION STRUCTURE 67-04 M13-66441
PRINCIPLES OF METALLOGRAPHIC ETCHING 67-04 M13-66693
AN ETCHING TECHNIQUE TO REVEAL STRAIN IN HIGH-STRENGTH STEEL 67-04 M13-66943
X-RAY FLUORESCENCE TECHNIQUE FOR THE STUDY OF SEGREGATION IN STEEL 67-04 M13-66985
METALLOGRAPHIC ATLAS OF IRON, STEELS AND CAST IRONS. V. 1. FUNDAMENTALS OF METALLOGRAPHY

67-04 M13-67733
CHANGE IN THE PROFILE OF THERMAL ETCH GROOVES ON THE GRAIN BOUNDARIES IN TRANSFORMER STEEL 67-04 M13-67851
INVESTIGATION OF THE CHEMICAL HETEROGENEITY IN WELDED ATSM AND ATSMU ALLOY JOINTS 67-04 M13-67934
METALLOGRAPHIC STUDY OF WHITE METALS 67-04 M13-68035
METHOD OF REVEALING THE MICROSTRUCTURE OF MANGANESE-BASE ALLOYS 67-04 M13-68076
SPECTRAL ANALYSIS OF OXIDE INCLUSIONS, PRECIPITATED FROM STEEL 67-04 M19-67084
THE ELECTRON MICROPROBE 67-04 M19-67201
MODERN RADIOMETALLOGRAPHIC METHODS 67-04 M19-67399
PHYSICAL PROPERTIES AND METALLOGRAPHY OF TITANIUM CARBIDE/STEEL INFILTRATION ALLOYS 67-05 M09-69061
NONDESTRUCTIVE METALLOGRAPHIC TECHNIQUES AND APPLICATIONS 67-05 M13-68301
LOW-ENERGY ELECTRON DIFFRACTION OF SPHERICAL COPPER SINGLE CRYSTALS 67-05 M13-68338
IMPROVED METALLOGRAPHIC TECHNIQUE FOR OBSERVING REACTIONS OF THIN METAL FILMS ON SILICON 67-05 M13-69225
ELECTROLYTIC POLISHING OF ALUMINUM GOLD ALLOYS 67-05 M13-69421
THINNING OF BI2TE3 SPECIMENS FOR TRANSMISSION ELECTRON MICROSCOPY 67-05 M13-69423
A METHOD OF MAKING OXIDE REPLICAS FOR STUDYING THE STRUCTURE OF ALLOYS OF THE ZR-NB SYSTEM 67-05 M13-69630
PERFORMANCE OF THE ULTRASOUND MICROSCOPES 67-05 M13-69799
NATURE OF STRUCTURAL CHANGES DURING HEATING OF AL PLUS 5 PER CENT CU PLUS 0.7 PER CENT MN ALLOY WITH A DEFORMATION TEXTURE --111-- PLUS --100-- 67-05 M14-69659
TECHNIQUES OF METALLOGRAPHIC QUALITY CONTROL OF THE HEAT TREATMENT OF BERYLLIUM BRONZE 67-06 M10-70182
METALLOGRAPHIC STUDY OF THE STRUCTURE OF SECONDARY HARDENING ZONES 67-06 M13-70110
METALLOGRAPHIC INVESTIGATIONS ON WC SINGLE CRYSTALS 67-06 M13-70246
AN ETCHANT TO REVEAL DISLOCATIONS IN BI2TE3 67-06 M13-70248
NEW METHOD OF ELECTROLYTIC ATTACK USEFUL FOR OBSERVATION OF THE STRUCTURE AND SUBSTRUCTURE OF IRON 67-06 M13-70252
METHODS OF LOCATING DISLOCATIONS IN TRANSFORMER STEEL 67-06 M13-70344
PREPARATION OF THIN SECTIONS BY ION BOMBARDMENT FOR TRANSMISSION ELECTRON MICROSCOPY 67-06 M13-70833
DETECTION OF THE STRUCTURE OF SINTERED MATERIALS OF THE ME-MEO SYSTEM BY IONIC BOMBARDMENT 67-06 M13-70966
AN ACID SAW FOR THE STRAIN-FREE CUTTING OF SINGLE CRYSTALS 67-06 M13-71013
TRANSMISSION ELECTRON MICROSCOPE EXAMINATION OF CRACKS FORMED IN MASSIVE BODIES 67-06 M13-71015
METALLOGRAPHY OF THE 475 C. EMBRITTLEMENT IN AN IRON-30 PER CENT CHROMIUM ALLOY 67-06 M13-71080
METALLOGRAPHIC ANALYSIS OF POROSITY IN TITANIUM SPONGE, OBTAINED BY REDUCTION WITH MAGNESIUM 67-06 M13-71355
METHODS FOR METALLOGRAPHIC PREPARATION OF UO2 AND UO2CEO2 67-06 M13-71408
THE EFFECT OF THE SURFACE CHARACTERISTICS OF 18/8 AUSTENITIC STAINLESS STEEL UPON MICROGRAPHIC ETCHING 67-06 M13-71503
DEFORMATION OF COPPER CRYSTALS DURING CUTTING BY STANDARD METHODS 67-06 M13-71621
COMMENTS ON THE DISLOCATION DISTRIBUTION NEAR THE SURFACE OF DEFORMED COPPER 67-06 M13-72241
MICROSCOPIC AND X-RAY SPECTRAL ANALYSES OF SILICO-CARBIDE EUTECTIC IN FE-C-SI ALLOYS 67-06 M14-69992
TUNGSTEN SHADOW CASTING FOR ELECTRON MICROSCOPICAL SPECIMENS 67-06 M15-71012
ELECTROPOLISHING OF PLATINUM FOILS AT -35 C. FOR TRANSMISSION ELECTRON MICROSCOPY 67-07 M13-72665
HOW TO DISTINGUISH IRON CARBIDE FROM IRON NITRIDES BY ETCHING 67-07 M13-72677
METHOD OF REMOVING THIN FOIL FROM WELDED JOINTS FOR THE STUDY OF DISLOCATION STRUCTURES 67-07 M13-72700
METHODS OF STUDYING TEXTURE IN ELECTROLYTIC DEPOSITS 67-07 M13-72787
OBSERVATIONS MADE USING LAYER ETCHING TECHNIQUES AS A MEANS OF REVEALING PRIMARY STRUCTURES 67-07 M13-73123
MICROSTRUCTURE STANDARDS FOR MALLEABLE IRON 67-07 M13-73615
A METALLOGRAPHIC STUDY OF SINTERED STEEL 67-08 M09-75493
IMPROVED DETERMINATION ON THE CRYSTALLOGRAPHIC ORIENTATION AND MUTUAL DISORIENTATION OF MICROSCOPIC SECTIONS OF AN ELECTRON-MICROSCOPE OBJECT 67-08 M13-74528
METALLOGRAPHY OF SILICON SINGLE CRYSTALS 67-08 M13-74941
PREPARATION METHOD FOR REVEALING THE STRUCTURE OF CERMETS 67-08 M13-74942
A RAPID TECHNIQUE FOR PREPARING THIN FOILS FOR ELECTRON MICROSCOPY. --IMPROVED JET-POLISHING METHOD-- 67-08 M13-75082
THE CONSTITUTION OF NB-CO ALLOYS 67-08 M13-75293
ELECTROPOLISHING NIOBIUM 67-08 M13-75299
THE METALLOGRAPHY OF SILVER 67-08 M13-75633
A METHOD FOR THREE-DIMENSIONAL STRUCTURE OBSERVATION 67-08 M13-75661
THE ELECTRON MICROSCOPE AND ITS METALLURGICAL APPLICATIONS 67-08 M13-75797
HIGH TEMPERATURE METALLOGRAPHY 67-08 M13-75843
SELECTIVE ISOLATION OF INTERMETALLIC AND CARBIDE PHASES PRESENT IN A NI-CR-TI-AL-C ALLOY 67-08 M13-75963
QUALITY OF A LARGE INGOT OF KH21N5T STEEL 67-08 M13-76281
CHARACTERISTICS OF HARD METAL STRUCTURES IN THE ELECTRON MICROSCOPE 67-09 M13-76465
EFFECT OF SPECIMEN SURFACE PREPERATION ON THE ACCURACY OF X-RAY FLUORESCENCE ANALYSIS OF LEADED COPPER ALLOYS 67-09 M13-76676
APPRAISAL OF METHODS OF SHOWING UP AUSTENITE GRAIN 67-09 M13-76802
THE ROLE OF THE MICROSCOPE IN THE STUDY OF METALS 67-09 M13-77092
RESOURCES OF METALLOGRAPHY 67-09 M13-77233
STUDY OF THE FORMATION OF VACANCY FIGURES ON THE SURFACE OF ALUMINUM DURING QUENCHING AT HIGH TEMPERATURES 67-09 M13-77288
NONMETALLIC INCLUSIONS IN COLD ROLLED TRANSFORMER STEEL 67-09 M13-77640
REVEALING OF HARD METAL STRUCTURES BY INTERFERENCE VAPOR-DEPOSITION 67-09 M13-77794
VIBRATING GRINDING AND VIBRATORY POLISHING OF STEEL IN METALLOGRAPHY. PT. 1 67-09 M13-77795
THE BAUMANN PRINT 67-09 M13-78022
METALLOGRAPHIC EVIDENCE FOR A MARTENSITIC TRANSFORMATION IN U3SI 67-09 M14-77479
THE METALLOGRAPHY OF GAMMA TO EPSILON TO ALPHA TRANSFORMATION IN HIGH-ALLOYED STEELS 67-09 M14-77793
ELECTRON METALLOGRAPHY OF PRECIPITATES IN IRRADIATED AND UNIRRADIATED STAINLESS STEEL 67-09 M19-76636
METALS REFERENCE BOOK. V. 1 67-10 M01-79102
INDUSTRIAL APPLICATIONS OF ELECTRON METALLOGRAPHY. PT. 2 67-10 M13-78744
MICROGRAPHIC PRACTICE 67-10 M13-78855
SEPARATION OF CARBIDES BY DISSOLVING STEEL IN NITRIC ACID 67-10 M13-79059
QUANTITATIVE, METALLOGRAPHICAL ANALYSIS OF TEXTURE IN METALS 67-10 M13-79203
USE OF ETCH FIGURE TECHNIQUE FOR APPRAISAL OF THE IMPURITY DISTRIBUTION IN ZONE MELTED ALUMINUM 67-10 M13-79204
DETECTION OF THE SUBSTRUCTURE OF W, MO AND RE SINGLE CRYSTALS 67-10 M13-79205
A METHOD FOR DETECTION OF MICROPORES IN METALS 67-10 M13-79206
QUALITY OF LARGE KH21N5T STEEL INGOT 67-10 M13-79274
INDUSTRIAL APPLICATIONS OF ELECTRON METALLOGRAPHY 67-10 M13-79378
NEW INVESTIGATIONS OF HATCH ETCHING AS INFLUENCED BY ORIENTATION IN AL, CU AND FE-SI 67-10 M13-79483
METALLOGRAPHIC RESEARCH INTO SUBSTANCES ON A

POWDERED MAGNESIUM BASE 67-10 M13-79740
JOINT USE OF CONTROLLED-POTENTIAL METALLOGRAPHIC ETCHING AND THE ELECTRON PROBE MICROANALYZER FOR THE STUDY OF COMPLEX STRUCTURES IN STAINLESS STEELS 67-10 M13-79984
A UNIVERSAL ELECTROLYTIC THINNING APPARATUS TO PRODUCE METAL FOILS FOR ELECTRON MICROSCOPY 67-11 M13-80702
METHODS OF CHEMICAL ETCHING FOR CERAMIC MATERIALS 67-11 M13-80703
METALLOGRAPHIC REAGENTS FOR THE DETERMINATION OF CHEMICAL AND PHYSICAL HETEROGENITY IN THE MICROSTRUCTURE OF IRON AND STEELS 67-11 M13-80704
NON-METALLIC INCLUSIONS IN COLD-ROLLED TRANSFORMER STEEL 67-11 M13-80928
NEW METALLOGRAPHIC REAGENT FOR IRON, CARBON-ALLOY, AND TOOL STEELS 67-11 M13-81142
URANIUM METAL AND ALLOYS 67-11 M14-80460
PRODUCING SINGLE CRYSTALS OF PURE ALUMINUM BY THE STRONG METHOD 67-11 M14-80728
ELECTROCHEMICAL BEHAVIOR OF NIOBIUM IN ACID SOLUTIONS 67-12 M13-82605
SOME OBSERVATIONS ON THE STRUCTURE OF THE EQUIAXED ZONE IN ALUMINUM-COPPER ALLOYS 67-12 M13-82769
X-RAY AND ELECTRON MICROSCOPY STUDY OF PREPRECIPITATION PHENOMENA IN CU-RICH TI ALLOYS 67-12 M13-83151
THE OPTICAL MICROSCOPE IN METALLOGRAPHY 67-12 M13-83232
HIGH-TEMPERATURE METALLOGRAPHY 67-12 M13-83522

METALLOID ALLOYS
SEE BORON INTENSIFIED STEELS

METALLOID COMPOUNDS
SEE BORON COMPOUNDS
HOLMIUM COMPOUNDS
SILICA
SILICON CARBIDE
SILICON COMPOUNDS
TELLURIUM COMPOUNDS

METALLOIDS
SEE ALSO ARSENIC
BORON
SILICON
TELLURIUM

METALLOIDS, ELECTRICAL PROPERTIES
SEMICONDUCTORS AND SEMIMETALS. V. 1. PHYSICS OF 3-V COMPOUNDS 67-07 M16-74201

METALLURGICAL COKE, REACTIONS /CHEMICAL/
THE LABORATORY DETERMINATION OF MATERIAL CONVERSION RATES AND THEIR APPLICATION TO A SPECIAL KINETIC-MATHEMATICAL MODEL OF A BLAST FURNACE 67-09 M04-77342

METALLURGICAL FUELS
THE INJECTION OF COKE OVEN GAS IN A BLAST FURNACE 67-10 M04-79695

METALLURGICAL FURNACE LININGS
SEE FURNACE LINERS

METALLURGICAL FURNACES
FOUNDATIONS OF IRON AND STEEL METALLURGY 67-06 M04-70699
HIGH-SPEED HEATING OF CARBON AND ALLOY STEEL 67-06 M10-70103
LIFE OF DINAS REFRACTORIES IN COPPER-REFINING FURNACES 67-07 M03-72779
SMELTING METALS CONTINUOUSLY 67-08 M03-74365
AUTOMATION OF REVERBATORY FURNACES AT COPPER SMELTERS ABROAD 67-12 M02-83101
EXPERIENCE WITH METAL RECUPERATORS IN METALLURGICAL WORKS IN THE USSR 67-12 M10-81877

METALLURGICAL PHASES
SEE GAS PHASES /METALLURGICAL/
INTERMETALLIC PHASES /CONGRUOUS/
INTERMETALLIC PHASES /INCONGRUOUS/

METALORGANIC COMPOUNDS
GOLD--RECOVERY, PROPERTIES, AND APPLICATIONS 67-02 M01-58903

METALORGANIC COMPOUNDS, CATALYSTS
DEVELOPMENTS IN ORGANOMETALLICS 67-01 M01-58551

METALORGANIC COMPOUNDS, CHEMISTRY
THE CHEMISTRY OF ORGANOMETALLIC COMPOUNDS--THE MAIN GROUP ELEMENTS 67-10 M01-80001

METALS, COATINGS
TECHNICAL DEVELOPMENTS IN 1966 67-04 M12-66507

METALS, MECHANICAL PROPERTIES
STRENGTHENING MECHANISMS--METALS AND CERAMICS 67-03 M17-65328
TEMPERATURE-TIME RELATIONSHIP OF THE STRENGTH OF METALS AND ALLOYS IN EQUILIBRIUM. PT. 1. METALS 67-11 M17-80736

METALS, WELDING
INDUCTION WELDING OF METALS UNDER VACUUM 67-05 M11-68764

METAMORPHIC ROCKS
SEE QUARTZITES

METATHESIS
SEE DECOMPOSITION REACTIONS

METEORITES
THE METALS AND MATERIALS OF METERITES 67-07 M01-74267

METERS
SEE MEASURING INSTRUMENTS

MHD
SEE MAGNETOHYDRODYNAMICS

MICA, BENEFICIATION
STUDY OF THE INTERACTION OF CATION COLLECTORS WITH BE2SIO4 67-03 M02-65572

MICA, SUBSTRATES
THE STRUCTURE OF SILVER FILMS DEPOSITED ON MICA SUBSTRATES IN ULTRAHIGH VACUUM 67-06 M14-71023

MICROANALYSIS
IDENTIFICATION OF NONMETALLIC INCLUSIONS IN STEEL BY POLISHED THIN SECTION AND X-RAY MICROANALYSER 67-02 M19-58942
IDENTIFICATION OF NONMETALLIC INCLUSIONS IN STEELS BY THE POLISHED THIN SECTION AND X-RAY MICROANALYSER 67-02 M19-59155
ELECTRON PROBE MICROANALYSIS 67-03 M13-65825
MICROANALYSIS OF OXYGEN BY A RADIOACTIVE REAGENT 67-03 M19-65252
THE DETERMINATION OF METALLIC TRACE ELEMENTS BY AUTOMATIC ATOMIC ABSORPTION SPECTROMETRY 67-03 M19-65703
THE MICROANALYSIS OF LIGHT ELEMENTS 67-03 M19-65704
LASER MICROPROBE HELPS IDENTIFY INCLUSIONS 67-03 M19-65981
ADVANCES IN X-RAY ANALYSIS. V 9 67-06 M19-71418
EVALUATION OF QUANTITATIVE ELECTRON MICROPROBE ANALYSES OF MULTIPHASE MICROCRYSTALLINE REFRACTORY MATERIALS 67-06 M19-71430
A METHOD FOR TRACE ANALYSIS WITH AN ELECTRON MICROPROBE 67-06 M19-71431
THE APPLICATION OF THE ZIEBOLD CORRECTION PROCEDURE FOR PROBE DATA TO THREE TERNARY COPPER-BASE ALLOYS 67-06 M19-71432
HOMOGENEITY CHARACTERIZATION OF NBS SPECTROMETRIC STANDARDS. PT. 2. CARTRIDGE BRASS AND LOW-ALLOY STEEL 67-06 M19-71433
ELECTRON MICROPROBE AND ELECTRON DIFFRACTION ANALYSIS OF SURFACE REPLICA EXTRACTIONS 67-07 M13-72807
SEPARATION PROCEDURE FOR THE ANALYSIS OF SMALL AMOUNTS OF IRON ALLOYS AND THEIR ISOLATED STRUCTURAL CONSTITUENTS 67-07 M19-73027
MICROANALYTICAL STUDIES OF CARBIDES AND INTERMETALLIC PHASES 67-07 M19-73256
ELECTRON PROBE MICROANALYSIS 67-08 M13-74695
VACUUM SYSTEM OF ION-MICROPROBE MASS SPECTROMETER 67-08 M19-74562
THE APPLICATIONS OF THE ELECTRON BEAM MICROANALYZER --MICROPROBE-- TO MATERIALS RESEARCH 67-08 M19-74568
LIGHT ELEMENT MICROANALYSIS 67-09 M13-76661
JOINT USE OF CONTROLLED-POTENTIAL METALLOGRAPHIC ETCHING AND THE ELECTRON PROBE MICROANALYZER FOR THE STUDY OF COMPLEX STRUCTURES IN STAINLESS STEELS 67-10 M13-79984
THE ELECTRON PROBE MICROANALYZER 67-11 M19-81468
PROGRESS WITH THE ELECTRON PROBE MICROANALYZER-- 1966. QUANTITATIVE X-RAY MICROANALYSIS 67-11 M19-81469

MICROCALORIMETERS
SEE CALORIMETERS

MICROCHEMISTRY
MICROCONSTITUENTS IN HIGH SPEED STEELS 67-04 M19-67271

MICROFRACTOGRAPHY
SEE FRACTOGRAPHY

MICROGRAPHS
SEE PHOTOMICROGRAPHS

MICROHARDNESS
USING THE MICROHARDNESS METHOD FOR STUDYING

QUATERNARY CONSTITUTION DIAGRAMS
67-01 M13-57311
STUDY OF THE EFFECT OF SURFACE-ACTIVE MEDIA ON STEEL BY MICROHARDNESS METHOD
67-01 M17-57132
MICROHARDNESS OF SILICON SINGLE CRYSTALS AS DEPENDENT ON THE DISLOCATION DENSITY AND IMPURITY CONCENTRATION
67-01 M17-57361
MICROHARDNESS ANISOTROPY, SLIP, AND TWINNING IN MO2C SINGLE CRYSTALS
67-02 M17-59437
QUENCH-HARDENING GRADIENTS NEAR VACANCY SINKS IN CRYSTALS OF ZONE REFINED LEAD
67-02 M17-60634
SOME PHYSICAL PROPERTIES OF NIOBIUM MONOCARBIDE IN THE HOMOGENEITY REGION
67-04 M15-67860
MICROHARDNESS OF CHEMICAL ELEMENTS
67-04 M17-66858
CR2O3 SOLID SOLUTION HARDENING OF AL2O3
67-05 M14-68612
STRENGTH OF MULTILAYERED VACUUM CONDENSATES
67-05 M17-68578
EFFECT OF THE CONDITIONS OF THERMOMECHANICAL WORKING ON FRACTURE IN LEAD ALPHA-BRASS IN THE PROCESS OF ANNEALING
67-05 M17-69276
EFFECT OF COMPOSITION AND COOLING RATE ON THE MICROHARDNESS OF A CAST AL-CU ALLOY SOLID SOLUTION
67-06 M17-70175
STATE OF THE SURFACE LAYER OF QUENCHED SHKH15 STEEL AFTER TURNING
67-07 M08-74288
CORRELATION OF PHYSICO-MECHANICAL PROPERTIES OF DIFFUSIVE COATINGS WITH THEIR ELECTRONIC STRUCTURE
67-07 M12-72512
PROBLEMS OF THE MICROSCOPIC MEASUREMENT OF HARDNESS IMPRESSIONS
67-07 M17-72834
THE EFFECT OF PHOSPHORUS ON THE MECHANICAL PROPERTIES AND WEAR RESISTANCE OF CAST IRON
67-07 M17-73478
APPLICATION OF ELECTRON BEAM MICROANALYSIS IN CORROSION INVESTIGATIONS
67-07 M18-73118
ON THE NATURE OF THE CONNECTION OF THE SUPERCONDUCTING PROPERTIES OF NIOBIUM WITH MICROHARDNESS
67-09 M16-77767
PLASTIC STRAIN OF HIGH-MELTING POINT COMPOUNDS
67-09 M17-76917
INFLUENCE OF SURFACE HARDENING ON MICROHARDNESS OF HARD SURFACED PARTS
67-10 M17-78408
STRUCTURE OF COPPER-TIN GALVANIC DEPOSITS
67-11 M12-81288
CORRELATION OF THE PHYSICOMECHANICAL PROPERTIES AND ELECTRONIC STRUCTURE OF DIFFUSION COATINGS
67-11 M17-80898
EFFECT OF MAGNETIC IMPULSE DEFORMATION ON THE MECHANICAL PROPERTIES OF NICKEL, IRON AND COPPER
67-11 M17-81662
ON THE STRUCTURE AND MECHANICAL PROPERTIES OF COPPER ROLLED AT 4.2 TO 300 K
67-12 M17-82341
BEHAVIOR OF ORDERING ALLOYS UNDER VARIOUS STRAIN CONDITIONS
67-12 M17-82343

MICROHARDNESS, ALLOYING EFFECTS
INVESTIGATION OF THE EFFECT OF COMPLEX ALLOYING ON THE PHYSICAL AND MECHANICAL PROPERTIES OF NIOBIUM
67-02 M17-59873
EFFECT OF THE CONCENTRATION OF ALUMINUM ON THE STRENGTH PROPERTIES OF ALUMINUM BRONZES
67-05 M17-69269
EFFECT OF ALUMINUM ON THE CHANGE IN HARDNESS OF CALCIUM BABBIT
67-06 M17-70171
MICROHARDNESS AND ITS ANISOTROPY IN SINGLE CRYSTALS OF GERMANIUM ALLOYED WITH VARIOUS ADDITIVES
67-08 M17-75445

MICROHARDNESS, RADIATION EFFECTS
ATOMIC DISPLACEMENT AND IMPURITY EFFECTS IN FISSILE METALS
67-04 M16-67321
MICROHARDNESS OF IRRADIATED BERYLLIUM OXIDE
67-11 M17-80631

MICROHARDNESS, RECOVERY
INVESTIGATION OF THE RECOVERY OF METALS AFTER QUENCHING
67-02 M17-58995

MICROHARDNESS, STRESS EFFECTS
MICROHARDNESS OF POROUS IRON IN A STRESSED STRAINED STATE
67-07 M17-73270

MICROMINIATURIZATION
SOME CONSIDERATIONS OF ADVANCED WELDING TECHNOLOGY
67-08 M11-75364
SUBSTRATE FOR MICROELECTRONICS MANUFACTURING PROCESS FOR EXTREMELY SMOOTH, CONDUCTIVE MATERIALS
67-09 M12-76689

MICROORGANISMS
SEE ALSO BACTERIA
MECHANISM OF MICROBIOLOGICAL CORROSION OF ALUMINUM ALLOYS
67-06 M18-71690

MICROPARTICLES
SEE PARTICLES

MICROPHOTOGRAPHY
SEE PHOTOGRAPHY

MICROPOROSITY
EFFECT OF MICROPOROSITY ON THE TENSILE PROPERTIES OF QE22A ALLOY
67-06 M08-70674
EFFECT OF RISERING ON THE MICROPOROSITY OF IRON CASTINGS
67-10 M06-79560
SURFACE ATTACK IN CARBONITRIDED INGOT IRON AND AISI 8620 STEEL
67-11 M10-80519
THE OBSERVATION OF MARKERS DURING THE OXIDATION OF COLUMBIUM
67-12 M14-82749

MICROPULVERIZING
SEE GRINDING /COMMINUTION/

MICRORADIOGRAPHY
LIKE JUNE, RADIOGRAPHY IS BUSTING OUT ALL OVER
67-06 M19-70457

MICROSCOPES
SEE ALSO ELECTRON MICROSCOPES
OPTICAL MICROSCOPES
PERFORMANCE OF THE ULTRASOUND MICROSCOPES
67-05 M13-69799
A CRYOGENICALLY PUMPED ALL-METAL FIELD ION MICROSCOPE
67-06 M13-70580

MICROSCOPY
SEE ALSO ELECTRON MICROSCOPY
FIELD ION MICROSCOPY
HOT STAGE MICROSCOPY
MICRORADIOGRAPHY
OPTICAL MICROSCOPY
PHOTOMICROGRAPHY
STEREOMICROSCOPY
TRANSMISSION ELECTRON MICROSCOPY
X RAY MICROSCOPY
METHODS OF STUDYING TEXTURE IN ELECTROLYTIC DEPOSITS
67-03 M13-65105
INFLUENCE OF DISSOLVED BIVALENT CATIONS UPON THE DECOMPOSITION MECHANISM OF WUSTITE FE1-XO BELOW 600 C
67-04 M14-66298
DESEGREGATION AND RESEGREGATION AS OBSERVED BY HIGH-TEMPERATURE MICROSCOPY
67-05 M14-68587
METHODS OF STUDYING TEXTURE IN ELECTROLYTIC DEPOSITS
67-07 M13-72787
EXPERIMENTAL METHODS OF MATERIALS RESEARCH. V. 1. ADVANCES IN MATERIALS RESEARCH
67-08 M01-74690

MICROSHRINKAGE
SEE SHRINKAGE

MICROSPHERES
SEE SPHERES

MICROSTRAIN
MICROSTRAIN COMPRESSION OF A BERYLLIUM, 4.37 PER CENT COPPER ALLOY PARALLEL TO THE C-AXIS
67-03 M17-65268
MICROYIELD STRESS DETERMINATIONS OF CAST AND EXTRUDED BERYLLIUM
67-03 M17-65274
RELATIONSHIP BETWEEN MICRODEFORMATIONS AND THE GENERATION OF DISLOCATIONS IN IRON AND MILD STEEL
67-04 M17-66309
MICROSTRAIN REGION AND TRANSITION TO MACROSTRAIN IN 99.9 PER CENT POLYCRYSTALLINE COPPER
67-06 M17-70981
MICROSTRAIN BEHAVIOR OF BODY-CENTERED CUBIC METALS
67-06 M17-71533
ON THE ORIENTATION DEPENDENCE OF YIELDING IN BCC METALS
67-06 M17-72235
THE MICROSTRAIN CHARACTERISTICS OF BERYLLIUM
67-07 M17-73760

MICROSTRAIN, IMPURITY EFFECTS
EFFECT OF PURITY AND TEMPERATURE ON DYNAMIC MICROSTRAIN OF NIOBIUM --COLUMBIUM--
67-11 M17-81342

MICROSTRAIN, STRESS EFFECTS
EXPERIMENTS ON THE DEFORMATION OF NIOBIUM SINGLE CRYSTALS. PT. 1. STRESS VERSUS STRAIN CURVES AND SLIP SYSTEMS IN COMPRESSION AND TENSION
67-09 M17-76585

MICROSTRUCTURE
SEE ALSO FLAKE GRAPHITIC STRUCTURE
GRAPHITIC STRUCTURE
LAMELLAR STRUCTURE
NODULAR GRAPHITIC STRUCTURE
SPHEROIDAL STRUCTURE
CONTRIBUTION TO THE CAST CU-ZN-SI ALLOYS
67-01 M06-57238

EFFECT OF ULTRASONIC VIBRATIONS ON STRUCTURE AND PROPERTIES OF AL4 ALLOY 67-01 M06-57328
EFFECT OF NITROGEN ON CHILLED GREY CAST IRON 67-01 M06-57498
PRODUCTION AND PROPERTIES OF ALNICO ALLOYS WITH COLUMNAR STRUCTURE 67-01 M06-58444
STRUCTURE OF METALS THIRD EDITION 67-01 M13-57201
MICROFRACTOGRAPHY OF THIN FILMS 67-01 M13-57555
SPHEROIDAL GRAPHITE NUCLEI IN RARE EARTH AND MAGNESIUM INOCULATED IRONS 67-01 M13-57594
CONTRIBUTION TO THE STUDY OF URANIUM ALLOYS CONTAINING SMALL AMOUNTS OF ADDITION ELEMENTS 67-01 M14-57169
ON THE RELATIONS BETWEEN THE EUTECTIC SOLIDIFICATION RATE AND THE MICROSCOPIC STRUCTURE OF CAST IRON 67-01 M14-58256
PROBLEM OF THE FORMATION OF A MACROCRYSTALLINE RIM IN PRESSED ARTICLES FROM ALUMINUM ALLOYS 67-01 M14-58292
CRYSTALLOGRAPHIC CHARACTERISTICS OF THE IRON PHOSPHIDE --FE3P-- PRECIPITATE IN FERRITE 67-01 M14-58340
THE EFFECT OF CARBON ON THE PROPERTIES OF 25CR-20NI HEAT RESISTING STEEL 67-01 M17-58241
INFLUENCE OF MICROSTRUCTURE ON THE STRENGTH AND TOUGHNESS OF LOW CARBON, HIGH STRENGTH ALLOY STEEL 67-01 M17-58608
THE STRUCTURE OF 18-4-1 HIGH-SPEED STEEL AND ITS INFLUENCE ON THE QUALITY OF CUTTING TOOLS 67-01 M19-57607
STEEL SOLIDIFICATION AND INGOT STRUCTURE 67-02 M04-60284
CASTING OF HIGH SPEED STEELS ENRICHED WITH VANADIUM, TITANIUM, COBALT AND CARBON 67-02 M06-58970
EXPERIMENTS ON THE SOLIDIFICATION OF STEEL INGOTS BY SCRAPE METHOD 67-02 M06-60618
MICRO-X-RAY SPECTRAL STUDY OF THE BOUNDARY ZONE IN A BIMETAL 67-02 M13-58880
EFFECT OF STRAINING CONDITIONS DURING ROLLING ON THE MAGNITUDE OF MICRODISTORTIONS OF THE CRYSTAL LATTICE AND DIMENSIONS OF THE BLOCK STRUCTURE 67-02 M13-58899
ESTABLISHMENT OF DIAGRAMS OF STRUCTURES OF CHROMIUM AND TUNGSTEN STEELS ON THE BASIS OF THE EXTENT IN SPACE OF THE AUSTENITE DOMAIN IN THE TERNARY ALLOYS IRON---CHROMIUM OR TUNGSTEN---CARBON 67-02 M13-58928
STACKING FAULTS IN STEAM-OXIDIZED SILICON 67-02 M13-58946
TWINNING MODES IN THE HCP ZETA PHASES AG-AL, AG-SN AND AG-SB 67-02 M13-58956
DISLOCATION ARRANGEMENTS IN TANTALUM SINGLE CRYSTALS DEFORMED IN TENSION AT 373 K 67-02 M13-58960
VACANCY CONCENTRATIONS IN QUENCHED ALUMINUM 67-02 M13-58967
CONTINUOUS OBSERVATION OF CELL FORMATION IN ALUMINUM WITH A 500 KV ELECTRON MICROSCOPE 67-02 M13-59062
EXPLORATORY EXPERIMENT ON FEASIBILITY OF MAKING A TI-MG ALLOY UNDER HIGH PRESSURE 67-02 M13-59442
THE MECHANICAL PROPERTIES OF WELDABLE ZQ 50 ALUMINUM ALLOY 67-02 M13-59724
CAST TEXTURES AND MACROMOSAIC STRUCTURES IN CONTINUOUSLY CAST ALUMINUM 67-02 M13-59731
INVESTIGATION OF THE FINE STRUCTURE IN TWO-PHASE TITANIUM ALLOYS 67-02 M13-59834
INVESTIGATION OF THE ALLOYS IN THE TI-AL-V SYSTEM 67-02 M13-59840
DETECTION OF PRECIPITATION OF IRON CARBON MARTENSITES WHICH CANNOT BE OBSERVED WITH THE ELECTRON MICROSCOPE 67-02 M13-59916
MORPHOLOGY AND TEXTURE OF CARBONYL MOLYBDENUM AND TUNGSTEN PRECIPITATES 67-02 M13-59930
HOT EXTRUDED AND COLD ROLLED TEXTURES OF DISPERSION ALLOY, AL-AL2O3 --SAP-- 67-02 M13-59982
ON THE STRUCTURE OF URANIUM-MANGANESE-ALUMINUM-IRON ALLOYS WITH CONSTANT URANIUM CONTENT OF 50 AT. PER CENT 67-02 M13-60119
ELECTRON MICROSCOPIC OBSERVATION ON THE INTERACTION BETWEEN OXIDE PARTICLES AND DISLOCATIONS IN ALUMINUM AND MAGNESIUM 67-02 M13-60155
TYPICAL MICROSTRUCTURES OF CAST METALS 67-02 M13-60202
THE CRYSTALLOGRAPHIC ORIENTATION RELATIONSHIP BETWEEN MO2C AND FERRITE MATRIX 67-02 M13-60277
MULTIPLE ELECTRON DIFFRACTION. APPLICATION TO EVAPORATING UO2 PLUS X 67-02 M13-60812
MICROSTRUCTURES OF CADMIUM-ZINC EUTECTIC ALLOY 67-02 M13-61591
STRUCTURE OF THE IRON IN SPUNCAST PIPES 67-02 M13-61917
LOW-TEMPERATURE ANNEALING OF PLASTICALLY DEFORMED METALS 67-02 M13-61930
PREPARATION AND MICROSTRUCTURE OF CERMETS AL2O3-MO AND ZRO2-MO 67-02 M13-62112
INVESTIGATION OF THE RECRYSTALLIZATION OF STEEL DURING VACUUM HEATING 67-02 M14-58831
ON THE MODULATED STRUCTURE OF AGED NI-AL ALLOYS 67-02 M14-58959
ACCOMMODATION FAULTING IN FE-NI MARTENSITIC TRANSFORMATION 67-02 M14-58968
PROPERTIES OF VACUUM-REMELTED HIGH SPEED STEELS 67-02 M14-59108
DISCUSSION OF OBSERVATIONS ON THE ORIENTATION DISTRIBUTION AND GROWTH OF LARGE GRAINS NEAR --110-- --001-- ORIENTATION IN SILICON-IRON STRIP 67-02 M14-59445
TEMPERATURE DISTRIBUTION ON THE SOLIDIFICATION OF SPHEROIDAL GRAPHITE CAST IRON 67-02 M14-59729
INCLUSION-LIKE, EUTECTIC RICH, STRUCTURAL INHOMOGENEITIES IN HYPOEUTECTIC PRESSURE DIE CASTING 67-02 M14-59732
ELECTRON MICROSCOPIC INVESTIGATION OF AL-ZN-MG ALLOYS 67-02 M14-59761
THE EFFECT OF HEAT TREATMENT ON SOME PROPERTIES OF COLD-ROLLED STRIP 67-02 M14-59808
EFFECT OF CRYSTALLIZATION CONDITIONS ON THE MOSAIC MACRO- AND MICROSTRUCTURE IN METALLIC CRYSTALLITES PREPARED FROM A MELT 67-02 M14-59865
ON THE MECHANISM OF THE FORMATION OF ME23C6 CARBIDE DURING TEMPERING OF MOLYBDENUM STEEL 67-02 M14-59942
FRICTIONAL WEAR IN FCC METAL SINGLE CRYSTALS 67-02 M14-60142
FORMATION OF THE ALLOY LAYER IN THE FE-AL DIFFUSION COUPLES 67-02 M14-60154
STUDY ON THE AUSTENITE GRAIN SIZE AND ITS COARSENING BEHAVIOR OF ALUMINUM KILLED STEEL 67-02 M14-60156
RECRYSTALLIZATION OF COLD ROLLED SINTERED ALUMINUM PRODUCTS --S. A. P.-- 67-02 M14-60262
STRUCTURAL TRANSFORMATIONS DURING HEATING OF STEEL 67-02 M14-60285
PRECIPITATION OF --FE, CR-- SIGMA PHASE FROM AUSTENITE 67-02 M14-60629
THE CRYSTALLOGRAPHIC ANALYSIS OF GRAIN-BOUNDARY PRECIPITATION 67-02 M14-60631
EVALUATING THE DEGREE OF INOCULATION OF SILUMIN IN TERMS OF ELECTRICAL CONDUCTIVITY 67-02 M14-61906
INITIAL STAGES OF THE DISINTEGRATION OF THE SUPERSATURATED SOLID SOLUTION IN ALLOYS BASED ON THE SYSTEM. FE-NI-AL 67-02 M14-61944
INFLUENCE OF BORON AND ALUMINUM ON GRAPHITIZING OF MALLEABLE IRON 67-02 M14-62006
ON THE RELATIONSHIP OF THE PARAMETERS OF SUPERCONDUCTIVITY OF ZR-4 PER CENT NB ALLOY TO ITS STRUCTURE 67-02 M16-59928
RECRYSTALLIZATION DURING CREEP OF NICKEL 67-02 M17-58953
THE PLASTIC DEFORMATION AND FRACTURE OF IRON-3 PER CENT SILICON IN THE TEMPERATURE RANGE 295 TO 473 K 67-02 M17-58957
THE MICROSTRAIN BEHAVIOR OF BERYLLIUM SINGLE CRYSTALS 67-02 M17-58962
PROPERTIES OF CARBON STEELS USED IN THE WIRE INDUSTRY 67-02 M17-59106
CORRELATION OF OPTICAL AND ELECTRON-OPTICAL OBSERVATIONS IN TORSION FATIGUE OF BRASS 67-02 M17-60643
BRITTLE BEHAVIOR IN EXTRUDED BERYLLIUM TUBES 67-02 M17-60906
INFLUENCE OF SUBSTRUCTURE ON YIELD STRENGTH OF D16 ALLOY 67-02 M17-61557
DEZINCIFICATION OF BRASS 67-02 M18-59987
THE INDENTATION OF SCALE AND BASE METAL IN LOW-ALLOYED STEELS 67-02 M18-62012
OBSERVATIONS ON CORRODED PARTS OF A STATIONARY 10 MW GAS TURBINE 67-02 M18-62014

ALKALI SULFATE CORROSION IN STEEL RECUPERATORS AND BOILER PLANTS 67-02 M18-62022
THE CORROSION OF AUSTENITIC SUPERHEATER STEELS BY ALKALI SULFATE/ALKALI CHLORIDE MIXTURES IN AIR AND COMBUSTION GASES 67-02 M18-62023
CORROSION IN BLAST-FURNACE GAS TURBINES. CAUSES AND REMEDIES 67-02 M18-62025
FERROUS METAL DIE CASTING PROVED FEASIBLE IN GE LABORATORY 67-03 M06-65469
MICROSCOPIC OBSERVATIONS OF PRECIPITATES IN SOME LOW-ALLOY STEELS AFTER CREEP TESTING 67-03 M13-65820
MULTIPLE DIFFRACTION EFFECTS IN ANNEALED PERMALLOY FILMS 67-03 M13-65882
ANODIC OXIDATION OF NB-SN ALLOYS 67-03 M13-65904
EVOLUTION AFTER ANNEALING OF HIGH PURITY IRON COLD-WORKED BY EXTENSION 67-03 M14-65551
INFLUENCE OF THE ORIENTATION ON THE RECRYSTALLIZATION OF IRON SINGLE CRYSTALS DEFORMED BY UNIDIRECTIONAL ROLLING 67-03 M14-65558
THE EFFECTS OF ROLLING TEMPERATURE ON THE MECHANICAL PROPERTIES AND MICROSTRUCTURES OF MILD STEELS 67-03 M17-65837
ON THE MECHANISM OF STRESS CORROSION CRACKING IN AUSTENITIC STAINLESS STEELS 67-03 M18-65844
METALLURGY OF FEEDING GREY CAST IRON 67-04 M06-66890
CONTROL OF LUDERS MARKINGS ON MILD STEEL STRIP BY ROLLER-FLEXING UNDER TENSION 67-04 M07-67419
MICROSTRUCTURE OF MOLECULAR CERMETS 67-04 M09-66263
INVESTIGATION OF THE CONDITIONS OF THE FORMATION OF HARD ALLOYS WITH AN UNEVEN DISTRIBUTION OF THE CARBIDE PHASE. PT. 1 67-04 M09-67339
WELD HETEROGENEITY IN ALUMINIUM-MAGNESIUM ALLOYS 67-04 M11-66529
FEATURES OF THE TRANSITION ZONES DURING ELECTROSLAG METAL DEPOSITION USING COMPOSITE ELECTRODES 67-04 M12-67177
INFLUENCE OF THE MACROSTRUCTURE ON THE RADIOGRAPHIC IMAGES OF CAST STAINLESS STEELS 67-04 M13-66044
SOME MICROSTRUCTURAL OBSERVATIONS ON THE DEFORMATION AND FRACTURE CHARACTERISTICS OF A NICKEL-BASE ALLOY IN STATIC CREEP 67-04 M13-66946
INVESTIGATION OF THE STRUCTURE OF TYPE V 96 ALLOY WELDED JOINTS 67-04 M13-67151
KINKING DURING ANNEALING OF PLATINUM WIRE 67-04 M13-67158
OPTIMUM STRUCTURE OF CUPOLA IRON FOR CASTING INGOT MOLDS 67-04 M13-67508
METALLOGRAPHIC ATLAS OF IRON, STEELS AND CAST IRONS. V. 2. STRUCTURE OF STEELS 67-04 M13-67734
ELECTRON-MICROSCOPE INVESTIGATION INTO THE PRIMARY STRUCTURES OF CHILLED IRONS 67-04 M13-67947
METHOD OF REVEALING THE MICROSTRUCTURE OF MANGANESE-BASE ALLOYS 67-04 M13-68076
INFLUENCE OF ZIRCALLOY 2 TRANSFORMATION CONDITIONS ON THE STRUCTURE AND MECHANICAL PROPERTIES OF FINISHED AND SEMIFINISHED PRODUCTS 67-04 M14-66043
X-RAY INVESTIGATION OF THE PROCESS OF DECOMPOSITION OF IRON-BASE HEAT RESISTANT AUSTENITIC STEELS 67-04 M14-66705
RELATIONSHIP OF MICROSTRUCTURE TO SOME MECHANICAL PROPERTIES OF TI-8AL-1V-1MO 67-04 M14-66924
DIRECT OBSERVATION OF STRESS ASSOCIATED WITH NITRIDIC PRECIPITATION IN IRON 67-04 M14-67021
PRECIPITATION OF NITRIDES IN IRON-MANGANESE-NITROGEN ALLOYS 67-04 M14-67024
CONTROLLED EUTECTICS 67-04 M14-67902
STUDY OF THE RECRYSTALLIZATION OF STEEL ON HEATING IN VACUUM 67-04 M14-68077
DIRECT OBSERVATION OF SAP STRUCTURE FAULTS 67-04 M17-66046
ASPECTS OF BRITTLENESS AT HIGH TEMPERATURES FOR FE-AL ALLOY WITH 40 AT. PER CENT ALUMINIUM 67-04 M17-66048
THE COLD WORKING AND SOFTENING OF COPPER ALLOYS 67-04 M17-66152
DISLOCATION SUBSTRUCTURE AND EXTENSION OF FATIGUE LIFE IN METAL CRYSTALS 67-04 M17-66925
INFLUENCE OF MOLYBDENUM ON THE STRUCTURE AND PROPERTIES OF A CARBIDE-BEARING AUSTENITIC STEEL 67-04 M17-67023
STUDIES ON WROUGHT EUTECTIC-TYPE ALUMINUM-SILICON ALLOYS 67-04 M17-67118
MECHANICAL PROPERTIES AND INHOMOGENEITY OF LARGE FORGINGS 67-04 M17-67370
THE RELATIONSHIP BETWEEN MECHANICAL PROPERTIES AND THE MICROSTRUCTURE OF CR STEELS WITH 0.6-1 PER CENT C 67-04 M17-67711
INVESTIGATION OF THE PHYSICAL PROPERTIES AND MICROSTRUCTURE OF HARD ALLOYS WITH A STEEL BOND 67-04 M18-67142
APPLICATIONS OF THE SCANNING ELECTRON MICROSCOPE TO OXIDE SURFACES 67-04 M18-67490
QUALITY OF STEEL FROM CONTINUOUSLY CAST BILLETS. PT. 2. QUALITY OF SPRING STEEL FROM CONTINUOUSLY CAST BILLETS 67-05 M01-68731
ON THE ABNORMAL BEHAVIOR OF HEMATITE ORE DURING REDUCTION 67-05 M04-69479
THE MECHANISM OF FORMATION OF MACROSCOPIC INCLUSIONS PRODUCED BY AIR-OXIDATION OF MOLTEN STEEL 67-05 M04-69708
INVESTIGATION OF CARBONIZATION PROCESSES DURING GRAPHITIC IRON SINTERING 67-05 M09-68702
THE RE-EXAMINATION OF A PUBLISHED MICROGRAPH 67-05 M13-68300
MICROSTRUCTURES AND PROPERTIES 67-05 M13-68999
DESCRIPTION OF A NEW TECHNIQUE FOR THE PREPARATION OF THIN METALLIC FILMS. APPLICATION FOR THE EXAMINATION OF GRAIN ORIENTATION SEAMS BY TRANSMISSION ELECTRON MICROSCOPY 67-05 M13-69134
THE FORMATION OF LATTICE DEFECTS BY SHOCK WAVES 67-05 M13-69157
METALLOGRAPHIC INVESTIGATION OF SHOCK WELDED METALS BY ELECTRON MICROSCOPY 67-05 M13-69166
STRUCTURE OF HIGH-SPEED STEELS 67-05 M13-69192
SCANNING ELECTRON DIFFRACTION OBSERVATIONS ON DIFFUSE INNER RINGS FROM VERY THIN VAPOR-DEPOSITED FILMS 67-05 M13-69209
OBSERVATION OF GOLD FILMS ON THINNED ROCKSALT 67-05 M13-69222
ANTIPHASE STRUCTURE OF THE ALLOY FE3AL 67-05 M13-69335
ELECTROLYTIC POLISHING OF ALUMINUM GOLD ALLOYS 67-05 M13-69421
AN ELECTRON DIFFRACTION STUDY OF PEARLITE 67-05 M13-69431
LOCAL STRAINS DURING INTERACTION OF SLIP BANDS AND TWINS WITH BARRIERS 67-05 M13-69651
ON THE SUBSTRUCTURE OF PLASTICALLY STRAINED METALS WITH A BODY-CENTERED LATTICE 67-05 M13-69652
EFFECT OF CYCLIC HEATING AND COOLING ON FRAGMENTED STRUCTURE OF ALUMINUM AND CADMIUM SINGLE CRYSTALS 67-05 M13-69665
TRAVELING SOLVENT DEFECTS ON SILICON WAFERS 67-05 M14-68631
THE PHYSICAL NATURE OF THE PROCESS ACCELERATING THE GRAPHITIZATION OF MALLEABLE CAST IRON 67-05 M14-68736
BIREFRINGENCE, X-RAY TOPOGRAPHY AND ELECTRON MICROSCOPE EXAMINATION OF THE PLASTIC DEFORMATION OF DIAMOND 67-05 M14-68753
THE STRUCTURE AND PERFECTION OF THERMALLY GROWN OXIDE FILMS ON SILICON 67-05 M14-68779
ORIGIN AND NATURE OF MICROSTRUCTURES 67-05 M14-68991
THE WETTING OF PLATINUM AND ITS ALLOYS BY GLASS. PT. 3. MICROSTRUCTURE AND MECHANICAL PROPERTIES OF GOLD-RHODIUM-PLATINUM ALLOYS 67-05 M14-69419
CONTRIBUTION TO MELTING AND SOLIDIFICATION OF SURFACES 67-05 M14-69420
FORMATION OF HOLLOW WHISKERS FROM METALS BY REACTION WITH FERICYANIDE AND FERROCYANIDE 67-05 M14-69427
ON THE MECHANISM OF STRENGTHENING DURING REPEATED STRAIN AGING 67-05 M14-69653
EFFECT OF THE NUMBER OF ROLLING PASSES ON THE STRENGTH, DUCTILITY, MICROSTRUCTURE AND FINE CRYSTALLINE STRUCTURE OF SILICON STEELS AS A RESULT OF HIGH-TEMPERATURE AUSROLLING 67-05 M17-69270
HIGH-TEMPERATURE MICROPROFILE APPEARING ON THE SURFACE OF IRON SPECIMENS DURING FATIGUE LOADING 67-05 M17-69656
HEAVY SECTION DUCTILE IRON AS AFFECTED BY CERTAIN PROCESSING VARIABLES 67-06 M06-70673
TECHNIQUES OF METALLOGRAPHIC QUALITY CONTROL OF THE

HEAT TREATMENT OF BERYLLIUM BRONZE
67-06 M10-70182

ELECTRODEPOSITION AT ROTATING CATHODES FROM ACIDIFIED COPPER SULPHATE SOLUTION
67-06 M12-70702

ON THE SUPERSTRUCTURES OF TA2O5 AND NB2O5
67-06 M13-70985

SEGREGATION IN NODULAR IRON AND ITS INFLUENCE ON MECHANICAL PROPERTIES 67-06 M13-71322

METALLOGRAPHIC ANALYSIS OF POROSITY IN TITANIUM SPONGE, OBTAINED BY REDUCTION WITH MAGNESIUM
67-06 M13-71355

THE FORMATION OF THE ROLLING TEXTURE OF BODY-CENTERED CUBIC METALS AND ALLOYS
67-06 M13-71657

MICROSCOPIC AND X-RAY SPECTRAL ANALYSES OF SILICO-CARBIDE EUTECTIC IN FE-C-SI ALLOYS
67-06 M14-69992

CHANGE IN THE STRUCTURE AND PROPERTIES OF HEAT RESISTANT STEELS IN WELD JOINTS OF STEAM LINES
67-06 M14-70155

INTERACTION OF DISLOCATIONS AND PRECIPITATES IN QUENCH-AGED IRON-CARBON ALLOYS SUBJECTED TO CYCLIC STRESSING 67-06 M14-70420

THE DEFORMATION OF MGO SINGLE CRYSTALS DOPED WITH TITANIUM AND VANADIUM 67-06 M14-70632

PRECIPITATION OF CRN IN LOW-ALLOY MEDIUM-TENSILE STRENGTH STEEL 67-06 M14-70813

THE MICROSTRUCTURE OF ZONE MELTED CAST IRON
67-06 M14-70848

UNIDIRECTIONAL SOLIDIFICATION OF WHITE CAST IRON
67-06 M14-70849

EFFECT OF FISSION FRAGMENTS ON THE MICROSTRUCTURE OF AN AUSTENITIC STAINLESS STEEL
67-06 M14-70891

EFFECTS OF THE THIRD ADDITIONAL ELEMENTS ON RAPID COOLED CAST STRUCTURES OF AL-3 5 PER CENT MN ALLOYS. PT. 3. STUDIES ON HYPEREUTECTIC AL-MN ALLOYS 67-06 M14-71215

ENHANCED STAGE 1 RECOVERY OF DEFORMED ALUMINUM
67-06 M14-71516

ELECTRON MICROSCOPIC OBSERVATION OF OXIDES FORMED ON THIN FILM OF COPPER AT ELEVATED TEMPERATURE
67-06 M14-71544

INVESTIGATION BY MEANS OF THE ELECTRON MICROSCOPE OF PRECIPITATION IN AL-CU SOLID SOLUTIONS. PT. 2. THE FORMATION OF THETA DOUBLE PRIME, THETA AND THETA PRIME PHASES IN AL-CU SOLID SOLUTIONS
67-06 M14-71987

THE INFLUENCE OF THERMOMECHANICAL TREATMENTS ON THE MICROSTRUCTURE AND TENSILE PROPERTIES OF HASTELLOY X-280 67-06 M17-69934

AN ESTIMATE OF THE DAMAGE TO COMMERCIAL IRON DURING FATIGUE TESTING AT 20 TO 800 C
67-06 M17-69980

SOME ASPECTS OF DUCTILE FRACTURE IN METALS
67-06 M17-70623

BRITTLENESS AND MICROSTRUCTURE OF SOME AL-MG-ZN-ALLOYS 67-06 M17-71659

VACUUM TPEATMENT OF BALL-BEARING STEEL PRODUCED WITHOUT FERROSILICON ADDITION
67-07 M04-73006

STRUCTURAL AND MORPHOLOGICAL METAMORPHISM OF SILICA AND SILICA-ALUMINA REFRACTORIES USED IN METALLURGY 67-07 M04-73209

ROLE OF TITANIA IN BAUXITE REFRACTORIES
67-07 M04-73622

INJECTION OF BRONZE OTSSN3-7-5-1 WITH NITROGEN AND POWDERED FLUXES IN NITROGEN 67-07 M06-73043

INFLUENCE OF ULTRASONIC VIBRATION ON THE STRUCTURE AND PROPERTIES OF ALUMINIUM ALLOY AL4
67-07 M06-73050

EFFECT OF THE POURING SEQUENCE ON THE STRUCTURE OF RIMMED-STEEL INGOTS 67-07 M06-73264

ON SOME PROPERTIES AND THE CONDITIONS FOR HOT PRESSWORKING STAINLESS HEAT PROOF STEEL
67-07 M07-73792

STATE OF THE SURFACE LAYER OF QUENCHED SHKH15 STEEL AFTER TURNING 67-07 M08-74288

HOT-EXTRUDED CHROMIUM COMPOSITE POWDER
67-07 M09-73868

HEAT TREATMENT OF HARDFACED DIES
67-07 M10-73976

WELD JOINTS OF HEAT RESISTANT STEELS IN OPERATIONAL CONDITIONS 67-07 M11-73036

MORPHOLOGY AND TEXTURE OF DEPOSITS OF CARBONYL MOLYBDENUM AND TUNGSTEN 67-07 M13-72585

PECULARITIES IN THE STRUCTURE OF COLD WORKED AND ANNEALED MANGANESE STEEL 67-07 M13-73124

LINE SHAPE ANALYSIS OF COLD WORKED MAGNESIUM
67-07 M13-73435

ELECTRON-METALLOGRAPHIC EXAMINATION OF SOFT-MAGNETIC NICKEL-IRON ALLOYS 67-07 M13-73533

MICROSTRUCTURE STANDARDS FOR MALLEABLE IRON
67-07 M13-73615

THE MICROSTRUCTURE OF AL-NI ALLOYS
67-07 M13-73801

THE DETERMINATION OF CRYSTALLOGRAPHIC STRUCTURES ON ELECTRON TRANSMISSION MICROGRAPHS
67-07 M13-73851

IMMISCIBLE BEHAVIOR IN THE IRON-INDIUM SYSTEM
67-07 M13-73856

MICROSTRUCTURE OF IRRADIATED URANIUM DIOXIDE
67-07 M13-74198

TRANSMISSION ELECTRON MICROSCOPY OF PU-1 WT PER CENT GA 67-07 M13-74240

AGE-HARDENING OF CU-4 PER CENT TI ALLOY DUE TO MODULATED STRUCTURE 67-07 M14-72411

FORMATION MECHANISM OF THE CARBIDE ME23C6 ON THE TEMPERING OF MOLYBDENUM STEEL
67-07 M14-72597

OBSERVATIONS ON THE ISOTHERMAL ANNEALING PROCESSES OCCURRING IN COLD DRAWN ALUMINUM-2WT PER CENT MAGNESIUM ALLOY 67-07 M14-72909

DEFECTS OF ANNEALED HIGH-CARBON STEEL STRIP
67-07 M14-73263

SOME ELECTRON MICROSCOPE OBSERVATIONS ON PRECIPITATION IN BERYLLIUM 67-07 M14-73741

THE DETERMINING FACTOR OF THE FORMATION OF SPHEROIDAL GRAPHITE IN MALLEABLE IRON
67-07 M14-74045

STRUCTURAL TRANSFORMATIONS IN NI4MO-TYPE ALLOYS
67-07 M14-74083

CARBIDE NETWORKS ON ROLLER BEARING STEEL AND MEASURES FOR COMBATING THEM 67-07 M14-74147

TRANSFORMATIONS AND STRUCTURES IN THE URANIUM-RHENIUM SYSTEM. PT. 1. METASTABLE ALPHA PRIME, ALPHA DOUBLE PRIME AND GAMMA STRUCTURES
67-07 M14-74229

TRANSFORMATIONS AND STRUCTURES IN THE URANIUM-RHENIUM SYSTEM. PT. 2. THE BETA TO ALPHA TRANSFORMATION 67-07 M14-74230

TRANSFORMATIONS AND STRUCTURES IN THE URANIUM-RHENIUM SYSTEM. PT. 3. FORMATION AND STRUCTURE OF DELTA --U2RE--
67-07 M14-74231

RELATION BETWEEN THE STRUCTURE AND SUPERCONDUCTIVITY PARAMETERS OF THE ALLOY OF ZIRCONIUM WITH 4 PER CENT NIOBIUM
67-07 M16-72583

FRACTURE OF STRUCTURAL MATERIALS
67-07 M17-74129

THE EFFECT OF MICROSTRUCTURE ON THE FORMATION OF RESIDUAL STRESSES IN UNALLOYED STEELS
67-07 M17-74211

PHASE ANALYSIS OF METALLIC COMPOUNDS
67-07 M19-73893

THE KROSS ROLE PROCESS 67-08 M07-74361

A METALLOGRAPHIC STUDY OF SINTERED STEEL
67-08 M09-75493

SOME EFFECTS OF TEMPERATURE CYCLING ON THE CREEP BEHAVIOR OF A NICKEL-BASE ALLOY
67-08 M10-75137

FORMING JOINTS WHEN WELDING WITHOUT FUSION
67-08 M11-75407

MICROSTRUCTURAL CHARACTERISTICS OF HIGH-TEMPERATURE FATIGUE FRACTURE OF 40KH12N8G8MV AUSTENITIC STEEL, SUBJECTED TO AUSFORMING
67-08 M13-74639

STRUCTURE AND CONSTITUTION OF THE TIN-PLATE ALLOY LAYER --CONCLUSION-- 67-08 M13-74735

MICROSTRUCTURE OF ALLOYS AND PRODUCTS
67-08 M13-74804

THE TITANIUM-RICH CORNER OF THE TERNARY TI-AL-CO SYSTEM 67-08 M13-75139

TERNARY SYSTEMS OF TI-ZR-C AND TI-HF-C
67-08 M13-75435

FINE CRYSTAL STRUCTURE OF THE SURFACE LAYER OF STEEL HARDENED WITH ROLLERS 67-08 M13-76004

TOPOLOGY OF SURFACE GRAINS AFTER ANNEALING OR CREEP
67-08 M13-76207

STUDY OF THE KINETICS OF THE ISOTHERMAL TRANSFORMATION OF AUSTENITE IN 20KHGNR STEEL
67-08 M14-74341

MICROSTRUCTURAL CHANGES IN SURFACE LAYERS OF MACHINED MATERIALS. IN PARTICULAR, A CONTRIBUTION TO THE STUDY OF THE MORPHOLOGY OF THE WHITE LAYERS 67-08 M14-75572

INFLUENCE OF BORON AND ALUMINIUM ON THE GRAPHITISATION OF MALLEABLE CAST IRON 67-08 M14-76089
MECHANICAL CHANGES IN THE SURFACE OF SPOT WELDED DEEPDRAWN STEEL 67-08 M17-74558
STRUCTURE AND PROPERTIES OF THE HEAT-RESISTANT ZHS TYPE NICKEL ALLOYS RESULTING FROM QUENCHING 67-08 M17-74965
THE STRUCTURE AND MECHANICAL PROPERTIES OF SHOCK-LOADED STEELS 67-08 M17-75332
AN INVESTIGATION OF THE MECHANICAL PROPERTIES AND MICROSTRUCTURES OF 18NI --250-- MARAGING STEEL WELDMENTS 67-08 M17-75967
SOME PROPERTIES OF STAINLESS HEAT-RESISTANT STEEL AND HEAT-TREATMENT CONDITIONS FOR IT 67-09 M07-76555
THE STRUCTURE AND PROPERTIES OF DISPERSION HARDENED LEAD 67-09 M09-76601
CONSIDERATIONS ON THE NATURE OF THE MICROPARTICLES IN MILD STEEL WELD METAL 67-09 M13-76361
MICROSTRUCTURAL DAMAGE ADJACENT TO A BRITTLE FRACTURE 67-09 M13-76651
THE MICROSTRUCTURES OF TERNARY EUTECTIC ALLOYS IN THE SYSTEMS CD-SN---PB, IN, TL--, AL-CU---MG, ZN, AG--, AND ZN-SN-PB 67-09 M13-76678
ALTERATIONS IN THE MICROSTRUCTURE OF TITANIUM ACCORDING TO DEFORMATION CONDITIONS 67-09 M13-77052
TOPOGRAPHIC X-RAY INVESTIGATION OF THE SUBSTRUCTURE OF NONDEFORMED SUPERRAFFINAL IN COMBINATION WITH CHEMICAL AND THERMAL ETCHING 67-09 M13-78175
MICROSTRUCTURE CHANGE INDUCED BY CENTER MELTING AND THE FORMATION OF CENTRAL VOIDS IN POWDER COMPACTED UO2 FUEL 67-09 M14-78222
STRESS CORROSION DEVELOPED DURING THE CREEP OF A CRMOV STEEL AT 540 C. AND IN AIR 67-09 M18-76492
IDENTIFICATION OF A THIN OXIDE FILM ON 18CR-8NI STEEL 67-09 M18-76649
MICROSTRUCTURE OF MOLECULAR CERMETS 67-10 M09-78995
COOLING TRANSFORMATION DIAGRAM FOR AISI 8620 67-10 M10-78761
ALTERATIONS IN DENSITY AND FINE STRUCTURE DURING DRAWING OF STEEL WIRE 67-10 M13-78962
GRAIN GROWTH AND CHANGES IN MAGNETIC PROPERTIES DURING THE SECONDARY RECRYSTALLIZATION OF COLD ROLLED TRANSFORMER STEEL 67-10 M14-78972
N2-ALLOYED HEAT AND SCALING-RESISTANT STEEL CASTINGS. PT. 2 67-11 M01-81545
INVESTIGATIONS OF THE SURFACE ZONE OF CONTINUOUSLY MELTED INGOTS FROM THE MULTICHAMBER ELECTRON BEAM FURNACE 67-11 M04-80202
STRUCTURE OF THE WELD AFFECTED ZONE IN BUILDUP ON G13L STEEL 67-11 M11-80650
STRUCTURE OF COPPER-TIN GALVANIC DEPOSITS 67-11 M12-81288
MICROMETALLURGY OF AUSTENITIC GRAIN SIZE CONTROL OF STEELS. PT. 1. EFFECT OF ALUMINUM ON PHYSICAL PROPERTIES 67-11 M13-80418
RESEARCH ON NOBLE METAL ALLOYS CONTAINING MORE ELECTROPOSITIVE ELEMENTS. PT. 12. TYPE-CII PHASES IN RARE EARTH ELEMENT ALLOYS 67-11 M13-80576
INFLUENCE OF IMPURITIES ON THE CHANGES IN PLATINUM SURFACE AS INDICATED BY FIELD ION MICROSCOPY 67-11 M13-80602
FIELD ION MICROSCOPE OBSERVATIONS OF A W-1 PER CENT OS ALLOY 67-11 M13-80770
THE MICROSTRUCTURE OF THE MO-BASE FUSION ZONE IN SI-THYRISTOR DEVICES 67-11 M13-80836
STRUCTURE AND MECHANICAL PROPERTIES OF NB-V-TI ALLOYS 67-11 M13-80988
HYDRIDE HABIT PLANES AND DEFORMATION PLANES OF HCP METALS 67-11 M13-81274
MICROSCOPIC STUDY OF THE CHANGE IN THE MINERAL COMPOSITIONS OF SLAGS DURING BIDLING OF STAINLESS STEEL IN THE COURSE OF MELTING 67-11 M13-81463
ASPECTS OF PRECIPITATION IN AN 18-10 STAINLESS STEEL CONTAINING MOLYBDENUM AND PHOSPHORUS ADDITIONS 67-11 M14-80241
CYCLIC MARTENSITIC TRANSFORMATION AND THE STRUCTURE OF A COMMERCIAL 18 CR-8 NI STAINLESS STEEL 67-11 M14-81334
EFFECT OF PLASTIC DEFORMATION ON THE ABSOLUTE THERMOPOWER OF ALPHA-BRASS 67-11 M15-80633
THERMAL CONDUCTIVITY AND HEAT CAPACITY OF THE MONOCARBIDE, MONOPHOSPHIDE AND MONOSULFIDE OF URANIUM 67-11 M15-81089
HIGH-TEMPERATURE PROPERTIES OF 9 PER CENT CR-1 PER CENT MO STEEL 67-11 M17-80263
SELECTED METALLURGICAL ASPECTS OF CLADDING MATERIALS 67-11 M17-80473
MICROHARDNESS OF IRRADIATED BERYLLIUM OXIDE 67-11 M17-80631
FRACTOGRAPHY AND MICROSTRUCTURE OF ALUMINUM ALLOY 7075-T651 AND T7351 67-11 M17-80690
THE RELATIONSHIP BETWEEN CHANGES IN FINE STRUCTURE AND THE MICROPLASTIC STRAIN RESISTANCE OF METALS AND ALLOYS 67-11 M17-81159
INFLUENCE OF VACUUM MELTING AND POURING ON THE STRUCTURE AND PROPERTIES OF NI-HARD CAST IRON 67-11 M17-81532
INFLUENCE OF WORK HARDENING AND SOLUTION HEAT TREATMENT ON THE KINETICS OF SENSITIZATION OF AN 18-8 STEEL 67-11 M18-80242
THE METALLURGY OF ALLOY 718 67-12 M01-83246
MICRODISTRIBUTION OF RARE EARTH ELEMENTS IN CAST IRON 67-12 M06-81973
CARBURIZATION PROCESSES DURING THE SINTERING OF IRON-GRAPHITE MATERIALS 67-12 M09-82678
FORMATION OF JOINTS DURING WELDING WITHOUT MELTING 67-12 M11-82028
STRUCTURAL EFFECTS IN PULSED STRAINING OF LOW-CARBON STEEL 67-12 M13-81716
THE STRUCTURE OF THE ALUMINIUM-CADMIUM-TIN EUTECTIC 67-12 M13-81774
REASONS FOR FORMATION OF BRIGHT AND DULL BANDS ON OUTER SURFACE OF SHKH15 STEEL BALL BEARING RINGS AFTER COLD PICKLING 67-12 M13-81844
MICROSTRUCTURAL FEATURES OF FATIGUE FRACTURE OF COMMERCIAL IRON IN THE DYNAMIC STRAIN AGING TEMPERATURE RANGE 67-12 M13-82338
STRUCTURAL CHANGES DURING CREEP OF AN AUSTENITIC ALLOY 67-12 M13-82347
ON STRUCTURAL DEFECTS OCCURRING DURING TWINNING OF SILICON IRON 67-12 M13-82412
THE CRYSTALLOGRAPHY OF THE REVERSE MARTENSITIC TRANSFORMATION IN AN IRON-NICKEL ALLOY 67-12 M13-82761
MICROSTRUCTURES AND NITRIDES OF FE-CR-N TERNARY SYSTEM 67-12 M13-82825
SEGREGATION AND GRAIN GROWTH IN DILUTE ALLOYS 67-12 M13-82879
THERMAL SIMULATION OF IN-REACTION MICROSTRUCTURES IN THO2-UO2 67-12 M13-82992
DIRECT OBSERVATION OF NONBASAL DISLOCATIONS IN SINTERED ALUMINA 67-12 M13-82995
NATURE OF CREEP CAVITIES IN TUNGSTEN 67-12 M13-83065
IDENTIFICATION OF STRENGTHENING PRECIPITATES IN 18NI --250-- ALUMINUM, VANADIUM AND TITANIUM MARAGING STEELS 67-12 M13-83068
ATTACK OF GRAIN BOUNDARIES AND DEFORMATION SUBSTRUCTURES IN 99.99 PER CENT PURE ALUMINUM 67-12 M13-83490
STUDY OF CARBIDE TRANSFORMATIONS DURING HEAT RESISTANCE TESTING OF 12KH1MF AND 15KH1M1F STEELS 67-12 M14-82345
STRUCTURAL DEPENDENCE OF THE TRACER-LEVEL DIFFUSION OF THORIUM IN PYROLYTIC CARBONS 67-12 M14-82370
MORPHOLOGY OF THE FINE GRAPHITE EUTECTIC IN CERIUM CAST IRON 67-12 M14-82410
HYDROGEN SOLUBILITY IN ALPHA TI-O ALLOYS 67-12 M14-82747
ORDERING AND ITS EFFECT ON DISLOCATION ARRANGEMENTS IN MG3CD 67-12 M14-82962
STUDY OF AUSTENITE FORMATION. THE CASE OF 15CDV6 STEEL 67-12 M14-83494
SILICEOUS FERRITIC MALLEABLE CAST IRON 67-12 M17-82619
EFFECT OF CONTROLLED HEAT TREATMENT ON PROPERTIES OF AL-ZN-MG-CU ALLOYS 67-12 M17-82711
SOME EFFECTS OF PROTON, ELECTRON, AND NEUTRON IRRADIATION ON THE FATIGUE PROPERTIES OF COPPER SINGLE CRYSTALS 67-12 M17-82971
THE FATIGUE AND TENSILE FRACTURE OF TD-NICKEL 67-12 M17-82972
SOME OBSERVATIONS ON CRACK EXTENSION IN TWO-PHASE MATERIALS 67-12 M17-82979
MICROSCOPIC FATIGUE FRACTURE SURFACE FEATURES IN 2024-T3 ALUMINUM AND THE INFLUENCE OF CRACK PROPAGATION ANGLE UPON THEIR FORMATION 67-12 M17-83051
THE DEVELOPMENT OF FIBROUS FRACTURE IN A MILD STEEL 67-12 M17-83066

MICROSTRUCTURE, ALLOYING EFFECTS
THE HARDENABILITY OF CAST IRON 67-02 M10-59401
TITANIUM IN CAST IRONS 67-02 M13-59094
COOLING TRANSFORMATION DIAGRAMS FOR AISI 1036 AND 10B36 67-02 M14-59462
SOME PROPERTIES OF WC-20 PER CENT CO AND WC-5 PER CENT TAC-20 PER CENT CO ALLOYS 67-02 M17-60151
SUBSTRUCTURES OF SB-DOPED TE CRYSTALS 67-04 M13-67242
ON THE HIGH TEMPERATURE PROPERTIES AND THE MICROSTRUCTURES OF HIGH MANGANESE HEAT RESISTING 10M6N TYPE ALLOY 67-04 M17-67566
EFFECT OF CERIUM ON STRUCTURE AND PROPERTIES OF OKH23N18 STEEL 67-05 M13-68557
COMBINED EFFECT OF SURFACE-ACTIVE AND SURFACE-INACTIVE IMPURITIES ON THE MICROSTRUCTURE OF TIN 67-05 M13-69264
EFFECT OF SMALL ADDITIONS OF TRANSITIONAL ELEMENTS ON THE MICROSTRUCTURE OF AL-MG ALLOYS 67-06 M13-72123
THEORETICAL PROBLEMS OF MODIFYING ALUMINUM AND ITS ALLOYS 67-06 M14-70930
DUCTILITY AND STRENGTH OF IRON CONTAINING 3.1 TO 5.1 PER CENT SI 67-06 M17-70806
EFFECT OF COBALT ON THE TEMPERING CHARACTERISTICS OF MEDIUM-CARBON STEELS 67-07 M10-73877
EFFECT OF CERIUM ON STRUCTURE AND PROPERTIES OF OKH23N18 STEEL 67-07 M13-72468
INFLUENCE OF COPPER ON THE PRIMARY STRUCTURE OF CAST IRON 67-07 M14-73046
EFFECT OF BORON ON STRUCTURE AND PROPERTIES OF 35GL STEEL 67-07 M17-74042
PRODUCTION OF CAST IRON INGOT MOLDS FOR STEELMAKING INDUSTRY 67-08 M04-75547
THE STRUCTURE OF GRAY CAST IRON WITH DIFFERENT CONTENTS OF MANGANESE AND SULFUR 67-08 M06-74617
EFFECT OF NI ON LOW NI-CR CAST IRON 67-09 M01-77248
GRAIN REFINEMENT IN STEEL CASTINGS 67-09 M06-76725
EFFECT OF ALLOYING ELEMENTS ON THE PROPERTIES OF HOT DIP GALVANIZED COATINGS 67-09 M12-77651
THE EFFECTS OF SILICON ADDITIONS TO THE BATH IN GALVANIZING WITH SHORT DIPPING TIMES 67-09 M12-77652
THE USE OF ALLOYED HARD CAST IRON IN INDUSTRY 67-11 M13-81542
EFFECT OF ZIRCONIUM ON THE PROPERTIES OF LOW-CARBON ARSENOUS STEEL 67-11 M17-80863
MICROSTRUCTURE OF IRON-BORON ALLOYS 67-12 M13-81843

MICROSTRUCTURE, COMPOSITION EFFECTS
NITROGEN IN NONALLOYED FERRITIC METAL 67-04 M17-66568
EFFECTS OF THE CHEMICAL COMPOSITION OF GRADE 15KP STEEL, AND THE ROLLING TECHNOLOGY, ON THE MECHANICAL PROPERTIES AND MICROSTRUCTURE OF HOT ROLLED SHEET 67-06 M17-70218
NITROGEN IN UNALLOYED FERRITIC METAL 67-07 M17-73425
EFFECTS OF PIG IRON AND ALLOY ELEMENTS UPON THE AS-CAST MICROSTRUCTURE AND MECHANICAL PROPERTIES OF SPHEROIDAL GRAPHITE CAST IRON 67-08 M06-74621
THE EFFECT OF OXYGEN IN RESULFURIZED STEELS. PT. 1 67-09 M04-76724

MICROSTRUCTURE, COOLING EFFECTS
DENDRITE STRUCTURE AND GRAIN SIZE OF UNDER COOLED MELTS 67-03 M14-65078
CHEMICAL MICROHETEROGENEITY IN CAST ALLOYS AS RELATED TO THE COOLING RATE 67-04 M13-67166
THE MICROSTRUCTURE OF UNIDIRECTIONALLY SOLIDIFIED AL-CUAL2 EUTECTIC AND AL-SI EUTECTIC ALLOYS 67-05 M13-69853
FINE GRAIN SIZE IN BERYLLIUM BY SPLATCOOLING 67-07 M13-73764
THE PROPERTIES OF WIRE ROD WITH CONTROLLED COOLING. PT. 2 67-08 M07-75071

MICROSTRUCTURE, CORROSION EFFECTS
INFLUENCE OF MICROSTRUCTURE ON CORROSION BEHAVIOR OF SOME WELDABLE STEELS 67-05 M18-68461

MICROSTRUCTURE, DIFFUSION EFFECTS
IMPERFECTIONS DUE TO DOUBLE DIFFUSIONS IN EPITAXIAL SILICON 67-05 M14-69211

MICROSTRUCTURE, HEATING EFFECTS
RESEARCH INTO THE EFFECTS OF INDUCTION HEATING DURING NORMALIZATION ON THE MICROSTRUCTURE AND PROPERTIES OF BUTT WELDED JOINTS IN DRILL PIPE 67-02 M10-59790
EFFECT OF ANNEALING ON THE STRUCTURE OF VACUUM METAL CONDENSATES 67-02 M13-61926
THE HEATING AND METALLOGRAPHY OF ULTRA-FINE RECRYSTALLIZED TUNGSTEN WIRE 67-02 M14-59007
ON REVERSION PHENOMENA OF CU-CR ALLOYS 67-02 M14-59985
NATURE OF STRUCTURAL CHANGES IN THE INITIAL STAGES OF DECOMPOSITION OF SUPERSATURATED SOLID SOLUTION OF TITANIUM IN COBALT 67-02 M14-62081
ON THE AGE HARDENING OF MN-CR AUSTENITE NONMAGNETIC STEELS CONTAINING VANADIUM 67-02 M17-59980
REDISTRIBUTION OF DISLOCATIONS IN CEMENTITE DURING HEATING 67-03 M13-65784
EFFECT OF HEAT CYCLING ON PROPERTIES AND STRUCTURE OF ALLOYS CONTAINING PHASES WITH VARICUS COEFFICIENTS OF LINEAR EXPANSION 67-04 M10-67922
INFLUENCE OF INDUCTION HEATING ON THE FINE STRUCTURE OF AUSTENITIC STAINLESS STEEL 67-05 M13-68379
STUDY OF THE ISOTHERMAL SOFTENING PROCESSES OCCURRING IN UNDOPED TUNGSTEN WIRE --0.38 MM-- 67-05 M13-69860
STABILITY OF HIGH-NICKEL ALLOYS IN SUPERHEATED STEAM 67-05 M14-69447
NATURE OF STRUCTURAL CHANGES DURING HEATING OF AL PLUS 5 PER CENT CU PLUS 0.7 PER CENT MN ALLOY WITH A DEFORMATION TEXTURE --111-- PLUS --100-- 67-05 M14-69659
ELECTRON-MICROSCOPIC INVESTIGATION OF FINE CUTTING BY RAZOR BLADES 67-06 M13-72164
ON THE TEMPERING BEHAVIOR OF 3CR-W, 3CR-W-CO AND 12CR-W-CO-TYPE TOOL STEELS FOR HOT WORK 67-06 M17-70584
EFFECT OF STRUCTURE AND CHEMICAL COMPOSITION ON THE MECHANICAL PROPERTIES AND DEFORMING CHARACTERISTICS OF HYPOEUTECTOID HARDENABLE STRIP STEELS IN ANNEALED CONDITION 67-06 M17-71749
TEMPERATURE CYCLES OF INGOT MOLDS DURING USE. PT. 1. DETERMINATION OF TEMPERATURE CYCLES OF INGOT MOLDS MOUNTED ON BOGIES 67-07 M04-73329
RESEARCH INTO HIGH-STRENGTH STEEL CASTINGS 67-07 M10-72991
ROLE OF THE INITIAL STRUCTURE IN THE ELECTRON BEAM HEATING OF STEEL 67-07 M14-72671
HEAT TREATMENT AND MECHANICAL PROPERTIES AT ROOM TEMPERATURE OF TI-8 PER CENT AL-4 PER CENT CO ALLOY 67-09 M17-77987
EFFECTS OF HEAT AND SHOCK WAVE TREATMENT ON THE STRUCTURE OF ALUMINUM ALLOYS 67-10 M13-78350
STRUCTURAL EVOLUTION OF CENTRIFUGALLY CAST 25CR-20NI-TYPE STEELS DURING PROLONGED HOLDING AT HIGH TEMPERATURE 67-11 M14-80243
EFFECTS OF GRINDING VARIABLES ON SURFACE STRUCTURE OF HARDENED STEEL 67-12 M12-83599
ULTRASONIC HEATING OF METALS 67-12 M13-82150
EFFECT OF GRAIN BOUNDARY DENUDATION OF GAMMA PRIME ON NOTCH-RUPTURE DUCTILITY OF INCONEL NICKEL-CHROMIUM ALLOYS X-750 AND 718 67-12 M17-82762

MICROSTRUCTURE, IMPURITY EFFECTS
EFFECT OF THE CADMIUM IMPURITY CONCENTRATION ON THE SUBSTRUCTURE OF ZINC SINGLE CRYSTALS 67-06 M13-70193
THE MICROSTRUCTURE OF CAST FOILS OF ALUMINUM OBSERVED BY TRANSMISSION ELECTRON MICROSCOPY 67-08 M13-75142

MICROSTRUCTURE, MAGNETIC PROPERTIES
STRUCTURE AND PROPERTIES OF FE-CO-NI-AL-CU ALLOYS IN HIGH-COERCIVITY STATE 67-08 M15-74627

MICROSTRUCTURE, PRESSURE EFFECTS
EFFECT OF HYDROSTATIC PRESSURE ON GAMMA PRIME PRECIPITATION IN RENE 41 67-06 M14-71617
TWINNING IN BERYLLIUM BINARY ALLOYS DURING PRESSURIZATION IN A SOLID MEDIUM 67-12 M13-82859
MORPHOLOGY AND KINETICS OF AUSTENITE DECOMPOSITION AT HIGH PRESSURE 67-12 M14-82869

MICROSTRUCTURE, RADIATION EFFECTS
PROOF AND ORIGIN OF INTERSTITIAL ATOM AGGLOMERATES IN CU FOILS EXPOSED TO IONIC IRRADIATION 67-01 M16-57581
THE EFFECT OF NEUTRON IRRADIATION ON THE THERMAL STABILITY OF CEMENTITE IN WHITE CAST IRON 67-02 M14-59909
EFFECTS OF IRRADIATION AND ENVIRONMENT ON THE MECHANICAL PROPERTIES AND HYDROGEN PICKUP OF

ZIRCALOY 67-02 M17-59026
THE INFLUENCE OF REACTOR IRRADIATION AND THERMAL ANNEALING ON SOME STAINLESS STEELS 67-04 M14-67105
VOIDS AT DISLOCATIONS IN IRRADIATED TUNGSTEN 67-05 M13-69224
CLUSTERING OF DEFECTS IN NEUTRON-IRRADIATED BERYLLIUM OXIDE 67-06 M14-70983
THE EMBRITTLEMENT OF OXIDE FILMS ON ZIRCONIUM BY NEUTRON IRRADIATION 67-07 M13-74234

MICROSTRUCTURE, STRESS EFFECTS
THE EFFECT OF TEMPERATURE AND DEGREE OF WORKING ON THE STRUCTURE OF HOT ROLLED AND EXTRUDED ALUMINUM 67-02 M13-59127
HYDRIDE MORPHOLOGY IN STRESSED ZIRCONIUM AND THE INFLUENCE OF SPECIMEN SIZE ON DUCTILITY 67-02 M17-59021
TRANSMISSION ELECTRON MICROSCOPY STUDY OF COLD WORKED AND ANNEALED STRUCTURES IN ALUMINUM AND TWO ALUMINUM ALLOYS 67-03 M14-65547
THE MICROSTRUCTURAL CHARACTERIZATION OF COLD-ROLLED ZIRCALOY-4 SHEET 67-06 M13-69928
WORK HARDENING OF ALLOYS CONTAINING HARD PARTICLES 67-07 M13-73849
HIGH TEMPERATURE TENSILE PROPERTIES OF NEUTRON IRRADIATED 20 CR-35 NI AUSTENITIC STEEL 67-07 M13-73853

MICROSTRUCTURE, TEMPERATURE EFFECTS
THE EFFECT OF PRECIPITATION CONDITIONS ON THE PROPERTIES OF ELECTROLYTIC CU DEPOSITS 67-02 M14-61885
VOLUME CHANGES OF GAMMA BRASSES WITH TEMPERATURE 67-05 M14-69267
THE EFFECT OF ELEVATED-TEMPERATURE EXPOSURE ON THE MICROSTRUCTURE AND TENSILE STRENGTH OF AL3NI WHISKER-REINFORCED ALUMINUM 67-12 M17-82861

MICROSTRUCTURE, WELDING EFFECTS
INVESTIGATION, FOR THE CASE OF WELDING, OF A RELATION BETWEEN TIME AND TEMPERATURE OF AUSTENIZATION 67-02 M14-59993
SOLIDIFICATION-DEPENDENT ASPECTS OF FRACTURE IN 18 PER CENT NI MARAGING STEEL WELDS 67-05 M17-69713

MICROWAVE SPECTROSCOPY
MILLIMETER WAVE RADIATION FROM INDIUM ANTIMONIDE 67-07 M16-73999
MICROWAVE EMISSION FROM CDS 67-11 M15-80818

MICROWAVES
ANOMALOUS ELECTROMAGNETIC MICROWAVE ABSORPTION OF SUPERCONDUCTING ALLOYS IN A STATIC MAGNETIC FIELD 67-06 M16-71994
RADAR PATROLS FOR SURFACE CRACKS 67-10 M19-78861
MICROWAVE EMISSION FROM GERMANIUM CRYSTALS 67-11 M16-80189

MIG ARC WELDING
SEE GAS METAL ARC WELDING

MILITARY PLANES
MILITARY VEHICLES AND EQUIPMENT 67-08 M20-74832

MILL SCALE
SEE SCALE /CORROSION/

MILLING /COMMINUTION/
SEE COMMINUTION

MILLING /MACHINING/
SEE ALSO CONTOUR MILLING
FACE MILLING
SLOT MILLING
USE OF ELECTROMACHINING OPERATIONS IN INDUSTRIAL PRODUCTION. PT. 2. APPLICATIONS 67-01 M08-58718
MANUALLY PROGRAMED DRILLING AND MILLING OPERATIONS WITH A NUMERICALLY CONTROLLED TURRET DRILLING MACHINE 67-01 M08-58723
MILLING GROOVES IN HEAT-RESISTANT STEELS BY END CUTTERS 67-02 M08-61258
ROTATING CARBIDE INSERTS MACHINE TITANIUM FASTER 67-03 M08-65119
HIGH POSITIVE RAKE CUTTERS--BIDDING TO SOLVE YOUR PRODUCTIVITY PROBLEM 67-04 M08-67633
NC MACHINING OF TITANIUM 67-05 M08-69502
THE GERMAN SILVERS 67-06 M01-72063
MEASUREMENT OF CYCLIC TEMPERATURE CHANGE OF TOOL-CHIP INTERFACE IN CARBIDE FLY MILLING 67-06 M08-72265
INDEXABLE-INSERT TECHNIQUE IN MILLING OFFSETS RISING COSTS 67-07 M08-73732
MACHINING TOOLS FOR HIGHLY HEAT RESISTANT MATERIALS IN AIRCRAFT POWER PLANT CONSTRUCTION 67-08 M08-74756
MACHINING TITANIUM ALLOYS 67-08 M08-75859
PRODUCTION OF A TUNGSTEN JET-PIPE NECK AT THE SEPR PLANT 67-08 M08-75860
MILLING TITANIUM EXTRUSIONS 67-09 M08-78274
VERO INDEXING-TYPE MACHINE FOR MILLING TURBINE BLADES 67-11 M08-80568

MILLING CUTTERS
SEE ALSO HOBBING CUTTERS
HIGH POSITIVE RAKE CUTTERS--BIDDING TO SOLVE YOUR PRODUCTIVITY PROBLEM 67-04 M08-67633
REFRACTORY MILLING WITH DIAMONDS 67-06 M05-70705
INDEXABLE-INSERT TECHNIQUE IN MILLING OFFSETS RISING COSTS 67-07 M08-73732

MILLING CUTTERS, DESIGN
SOME ADVANCED MILLING HEAD DESIGNS AND THEIR PERFORMANCE 67-08 M08-74758

MILLING CUTTERS, POWDER METALLURGY
PRODUCTION OF POWDER COMPOSITE CASINGS FOR THE TEETH OF MILLING CUTTERS 67-08 M09-74914

MILLING MACHINES
SEE ALSO PROFILE MILLING MACHINES
ROTATING CARBIDE INSERTS MACHINE TITANIUM FASTER 67-03 M08-65119

MILLS
SEE AUTOGENOUS MILLS
GRINDING MILLS

MILLS /ROLLING/
SEE ROLLING MILLS

MINERAL ACIDS
SEE INORGANIC ACIDS

MINERAL DEPOSITS, BENEFICIATION
THE STATE-OF-THE-ART TUNGSTEN AND SCHEELITE --CAWO4-- ORE DRESSING AT THE TUX PLANT AS PRACTICED BY OAMAG 67-07 M02-73728

MINERAL WOOL
SEE GLASS WOOL
SLAG WOOL

MINERALS /NONMETALLIFEROUS/
SEE NONMETALLIFEROUS MINERALS

MINERALS BENEFICIATION
SEE BENEFICIATION

MINIATURIZATION
SEE ALSO MICROMINIATURIZATION
THIN AND THICK FILM ELECTRONICS 67-06 M16-70847
A NEW LOOK FOR HIGH-VACUUM EVAPORATION 67-10 M12-78364

MINING
ROPE WIRE FOR TODAYS APPLICATIONS 67-02 M17-59011

MINING, MATERIALS
SELECTION OF STEEL FOR THE MANUFACTURE OF MINE SUPPORT ARCHES IN THE AS-RECEIVED CONDITION AND HEAT TREATED 67-02 M17-59558

MISCHMETAL
PERFORMANCE OF MISCH METAL IN THE DEOXIDATION AND DESULFURIZATION OF PURE IRON. PT. 7. INVESTIGATIONS INTO PURE IRON 67-06 M04-72288

MISCHMETAL, ALLOYING ADDITIVE
CORROSION RESISTANCE OF AUSTENITIC STAINLESS STEEL CONTAINING NITROGEN AND THE EFFECT OF RARE-EARTH METALS 67-03 M18-65961
EFFECT OF MICROALLOYING WITH RARE EARTH ON THE STABILITY OF THERMAL STRENGTHENING OF STEEL 67-07 M10-73789
EFFECT OF THE ADDITION OF RARE EARTH ELEMENTS ON THE COLD BRITTLENESS AND TEMPER BRITTLENESS SUSCEPTIBILITY OF ACID CONVERTER RAIL STEEL 67-08 M17-74589
EFFECT OF MICROALLOYING WITH RARE METALS ON STABILITY OF THERMOMECHANICAL HARDENING OF STEEL 67-09 M04-76552
CONTRIBUTION ON THE USE OF CERIUM-LANTHANUM MISCH METAL IN THE PRODUCTION OF SPECIAL STEELS 67-10 M04-79675
EFFECTS OF MISCH METAL ADDITIONS ON THE MACHINABILITY AND MECHANICAL PROPERTIES OF ALUMINIUM ALLOYS 67-10 M17-78606

MISCHMETAL, CHEMICAL ANALYSIS
X-RAY FLUORESCENCE ANALYSIS OF RARE-EARTH ALLOYS 67-05 M19-69620

MISCIBILITY
MISCIBILITY OF METALS WITH SALTS. PT. 7. THE POTASSIUM-POTASSIUM SULFIDE SYSTEM 67-05 M13-69031
EXAMINATION OF THE SYSTEM CU-AS-S AND THE

MISCIBILITY

DISTRIBUTION OF AG BETWEEN MATTE AND SPEISS 67-08 M15-74598
MISCIBILITY GAP IN THE TH-THC SYSTEM FROM HIGH-TEMPERATURE X-RAY DATA 67-10 M13-79594
MISCIBILITY OF MOLTEN LITHIUM AND SODIUM 67-10 M15-79049
THE MISCIBILITY OF THE TAU BORIDES 67-11 M15-80374
AN INVESTIGATION OF THE LIQUID MISCIBILITY GAPS IN THE LEAD-COPPER-IRON-ARSENIC SYSTEM 67-11 M15-81338
THE PLUTONIUM-LANTHANUM SYSTEM 67-12 M13-82868

MISCIBILITY, ALLOYING EFFECTS
IMMISCIBLE BEHAVIOR IN THE IRON-INDIUM SYSTEM 67-07 M13-73856

MISCIBILITY, TEMPERATURE EFFECTS
PHASE TRANSFORMATION OF FE-CR BINARY SYSTEM AT ABOUT 500 C 67-08 M14-74404

MISSILE COMPONENTS
SEE ROCKET COMPONENTS

MISSILES
BIG METAL BELLOWS DUCTS FEED SATURNS S-1C BOOSTER 67-08 M20-74733
TRY SHEAR-SPINNING TO FORM TOUGH ALLOYS 67-09 M08-77490

MISSILES, MECHANICAL PROPERTIES
FILAMENT METHODS CALLED BEST FOR MISSILES 67-06 M20-71709

MIXERS
PRETREATMENT OF IRON IN THE MIXER AND ITS USE TO MAKE STEEL IN OPENHEARTH FURNACES 67-04 M04-67094
STUDY OF THE OPERATION OF MIXERS FOR CASTING ALUMINUM AND ALUMINUM ALLOY INGOTS 67-11 M06-81502

MIXING
SEE ALSO DISSOLVING
PROPORTIONING /MIXING/
STUDY ON HOMOGENEITY OF PIG IRON IN MIXER-- RADIOISOTROPE TRACER TECHNIQUE 67-02 M04-60165

MIXTURES
SEE EMULSIONS

MOBILITY /CARRIER/
SEE CARRIER MOBILITY

MOBILITY /IONIC/
SEE IONIC MOBILITY

MODERATORS
MODERATOR MATERIALS 67-06 M01-70090

MODIFIED BAUER VOGEL PROCESS
SEE ANODIZING

MODULUS OF ELASTICITY
SEE ALSO DYNAMIC MODULUS OF ELASTICITY
SHEAR MODULUS
LOW-TEMPERATURE ELASTIC PROPERTIES OF ZRC AND TIC 67-01 M17-57116
AN ANOMALOUS DECREASE OF THE ELASTIC MODULI AT VERY LOW TEMPERATURES IN SOME 300 SERIES STAINLESS STEELS 67-01 M17-57624
CALCULATION OF THE POLYCRYSTALLINE RADIOGRAPHIC ELASTIC CONSTANTS OF TWO-PHASE ALPHA- BETA BRASS 67-01 M17-58368
PRODUCTION AND MECHANICAL PROPERTIES OF PURE COBALT AND COBALT ALLOYS 67-01 M17-58440
MAGNETOELASTIC PROPERTIES OF THE ANTIFERROMAGNETIC COMPOUND MNAU2 67-02 M15-61923
STUDY OF CHANGES OF INTERNAL DAMPING AND YOUNGS MODULUS IN HARDENED STEELS 67-02 M17-59716
THE ELASTIC MODULUS OF METALS AND TITANIUM ALLOYS 67-02 M17-59832
VARIATIONAL METHOD OF DETERMINING EFFECTIVE MODULI OF POLYCRYSTALS WITH TETRAGONAL SYMMETRY 67-02 M17-61074
ELASTIC MODULI OF THE LEAD-THALLIUM ALLOYS 67-02 M17-61078
LIMITING ELASTIC STRESSES IN COPPER 67-02 M17-61818
STRENGTH AND STRUCTURE OF VERY FINE SAPPHIRE WHISKERS 67-03 M17-65342
ELASTIC PROPERTIES OF ZIRCONIUM CARBIDE 67-03 M17-65385
THE EFFECT OF POROSITY AND CRYSTAL ORIENTATION ON THE YOUNGS MODULUS OF ARTIFICIAL GRAPHITE 67-03 M17-65853
THE EFFECT OF CERTAIN ALLOYING ELEMENTS ON THE ELASTIC MODULUS AND THE POSITION OF INTERNAL FRICTION AT HIGH TEMPERATURE IN IRON ALLOYS 67-03 M17-65950
THE EFFECT OF IMPERFECT CRYSTALLINE STRUCTURE ON ELASTIC AND RIGID PROPERTIES OF ALUMINUM 67-04 M15-66863
INTERNAL FRICTION AND YOUNGS MODULUS IN ANTIMONY AND BISMUTH 67-04 M15-67830
INTERNAL FRICTION IN SINTERED BERYLLIUM 67-04 M15-67834
EFFECT OF PLASTIC DEFORMATION ON PHYSICAL PROPERTIES OF TI-ALLOYED FE-NI INVARS 67-04 M15-67925
RELATIONSHIP BETWEEN THE HYDROGEN DIFFUSION WAVE PROPAGATED IN A METAL SHEET AND THE DEFORMATION PRODUCED BY THIS WAVE 67-04 M17-66045
THIRD-ORDER ELASTIC MODULI OF POLYCRYSTALLINE METALS FROM ULTRASONIC VELOCITY MEASUREMENTS 67-04 M17-66104
THE DEPENDENCE OF ELASTIC AND MAGNETIC PROPERTIES OF NICKEL-COPPER ALLOYS ON ANNEALING TEMPERATURE 67-04 M17-66920
ELASTIC MODULUS OF GRAY CAST IRON 67-04 M17-67848
LATTICE INSTABILITY OF HIGH-TRANSITION-TEMPERATURE SUPERCONDUCTORS. PT. 1. POLYCRYSTALLINE A-15 COMPOUNDS 67-05 M16-69516
NATURE OF THE ANOMALOUS BEHAVIOUR OF NICKEL 67-05 M17-69256
MEASUREMENTS OF STACKING-FAULT ENERGIES IN CO-NI AND CO-NI-CR ALLOYS 67-06 M13-72239
ELECTRICAL RESISTIVITY, ELASTIC MODULUS, AND DEBYE TEMPERATURE OF TITANIUM DIBORIDE 67-06 M15-71058
ULTRASONIC MEASUREMENT IN SINGLE-CRYSTAL NB3SN 67-06 M16-69917
BEHAVIOUR OF WIRE REINFORCED PLASTICS USING THE WIRE SHEET AS REINFORCING MATERIAL 67-06 M17-70617
ELASTIC PROPERTIES OF THORIATED W-MO AND W-MO-RE ALLOYS 67-06 M17-70799
THE MODULUS OF ELASTICITY OF FE-AL ALLOYS AS A FUNCTION OF THE TEMPERATURE AND AMOUNT OF ALUMINUM 67-06 M17-70886
MECHANICAL PROPERTIES OF NEUTRON-IRRADIATED PYROLYTIC CARBONS 67-06 M17-70897
FAULTING IN COLD WORKED TA-10 PER CENT RE AND W-20 PER CENT RE 67-06 M17-71086
ELASTICITY AND ANELASTICITY OF URANIUM OXIDES AT ROOM TEMPERATURE. PT. 1. STOICHIOMETRIC OXIDE 67-06 M17-71164
ULTRASONIC INVESTIGATION OF CU SINGLE CRYSTALS 67-06 M17-71176
PROPERTIES OF PYROLYTICALLY PRODUCED BORON FIBERS 67-06 M17-71619
STUDY OF THE EFFECTS OF ATOMIC ORDERING IN TERNARY SOLID SOLUTIONS --NI3FE, MN-- 67-06 M17-72374
INFLUENCE OF CONDUCTION ELECTRONS ON THE LATTICE SPECIFIC HEAT AND ELASTIC MODULI OF ALPHA-PHASE ALLOYS OF THE NOBLE METALS 67-07 M16-73940
SLIP DISTRIBUTION IN A THIN SLICE OF A CRYSTAL AT A FREE SURFACE 67-07 M17-72652
RECORDING EQUIPMENT FOR MEASUREMENTS OF INTERNAL FRICTION AND ELASTIC MODULUS OF METALS AT LOW FREQUENCIES 67-08 M17-74424
PRECISE, CONTINUOUS AND RAPID MEASUREMENTS OF DYNAMIC ELASTIC CONSTANTS AND INTERNAL FRICTION BY THE VIBRATOR-CONTROLLED OSCILLATOR SYSTEM 67-08 M17-74436
THE SIGNIFICANCE OF THE ELASTICITY MODULUS, COMPRESSIVE STRENGTH AND THE EXPANSION OF REFRACTORY MATERIALS IN FURNACE AND OVEN DESIGN. PT. 1 67-08 M17-74560
RECOVERY OF THE ELASTIC MODULUS OF THE EI702 ALLOY 67-08 M17-74981
INFLUENCE OF THERMOMECHANICAL TREATMENT ON THE PROPERTIES OF 36NKHTYU, 36NKHTYUM8 AND 42NKHTYU SPRING ALLOYS 67-08 M17-74982
NIOBIUM SPRING ALLOY WITH A STABLE ELASTIC MODULUS AT HIGH TEMPERATURES 67-08 M17-74983
ROLLING TEXTURE AND ELASTIC ANISOTROPY OF THE KOVAR ALLOY 67-08 M17-74994
YOUNGS MODULI OF THE CARBIDES OF SOME TRANSITION METALS 67-08 M17-75857
ELASTIC MODULUS OF STABILIZED ZIRCONIA 67-08 M17-76096
ROOM AND ELEVATED TEMPERATURE STRENGTH OF ALPHA-AL2O3 WHISKERS AND THEIR STRUCTURAL CHARACTERISTICS 67-08 M17-76141
THE DEFORMATION AND FRACTURE OF TWO-PHASE MATERIALS 67-08 M17-76258
NONDESTRUCTIVE DETERMINATION OF MECHANICAL

PROPERTIES OF REFRACTORY MATERIALS
67-08 M19-75522
STUDY OF CERTAIN PHYSICAL PROPERTIES OF NI3AL-NI3NB ALLOYS 67-09 M15-77292
RECOVERY OF THE ELASTIC MODULUS AND THE INTERNAL FRICTION OF COMMERCIAL COPPER AFTER PLASTIC DEFORMATION 67-09 M17-76675
EFFECT OF LIGHT ON THE NORMAL ELASTIC MODULUS OF GERMANIUM AND SILICON 67-09 M17-77065
THE THERMAL EXPANSION AND THE TEMPERATURE CHANGE OF YOUNGS MODULUS OF SINGLE CRYSTALS OF HEXAGONAL COBALT 67-09 M17-77251
ON THE INFLUENCE OF QUASI-ELASTIC DEFORMATIONS ON THE MODULUS DEFECT OF COLD WORKED CU 67-09 M17-77747
INTERNAL FRICTION AND ELASTIC MODULUS OF SILVER THIN FILMS 67-09 M17-77785
THE RECRYSTALLIZATION KINETICS OF DRAWN COPPER AND ALPHA-BRASS BARS DURING THE ISOTHERMAL DETERMINATION OF ELASTIC MODULI AT HIGH TEMPERATURES 67-09 M17-78180
THE EFFECT OF OXIDE FILMS ON DISLOCATION-SURFACE INTERACTIONS IN ALUMINUM 67-10 M13-79553
FURTHER MEASUREMENTS RELATING TO THE MECHANICAL PROPERTIES OF MASSIVE CEMENTITE 67-10 M15-79069
WAVE NUMBER-DEPENDENT ELASTIC MODULI IN LIQUID METALS 67-10 M16-78444
ISOTHERMAL YOUNGS MODULUS OF UO2 AND UO2-MO-CERMETS 67-10 M17-78361
THE VOIGT-REUSS-HILL APPROXIMATION AND ELASTIC MODULI OF POLYCRYSTALLINE MGO, CAF2, BETA-ZNS, ZNSE, AND CDTE 67-10 M17-79160
THIRD-ORDER ELASTIC MODULI OF GALLIUM ARSENIDE 67-10 M17-79163
DETERMINING THE STRENGTH OF THE INTERATOMIC BOND BY THE CHARACTERISTIC TEMPERATURE 67-10 M17-79231
STUDY OF CERTAIN RADIATION DEFECTS IN METALS BY MEASURING INTERNAL FRICTION AND ELASTIC MODULUS 67-10 M17-79903
YOUNGS MODULUS AND MAGNETIC SATURATION OF ORDERED NI3FE-NI3MN ALLOYS AT HIGH TEMPERATURES 67-11 M15-81171
VARIATIONS OF YOUNGS MODULUS THROUGHOUT THE MIXED STATE IN NIOBIUM 67-11 M17-80231
FREQUENCY DEPENDENCE OF DISLOCATION DAMPING IN SINGLE-CRYSTAL COPPER 67-11 M17-81093
ELASTIC PROPERTIES OF BINARY NIOBIUM ALLOYS CONTAINING TUNGSTEN, MOLYBDENUM, IRON AND NICKEL 67-11 M17-81170
THE ELASTIC ANISOTROPY OF ROLLED BERYLLIUM 67-12 M17-82576
ANALYTICAL INTERPRETATION OF BRINELL HARDNESS 67-12 M17-83245
THE QUALITY ANALYSIS OF UNALLOYED WHITE IRON 67-12 M17-83483

MODULUS OF ELASTICITY, ALLOYING EFFECTS
ELASTIC CONSTANTS OF AG ALLOY SINGLE CRYSTALS 67-05 M17-69846
INFLUENCE OF COPPER UPON STRUCTURE AND MECHANICAL PROPERTIES OF GREY CAST IRON--RESULTS OF A SYSTEMATIC INVESTIGATION 67-10 M17-79404
EFFECT OF CERTAIN ALLOYING ELEMENTS ON THE ELASTIC MODULUS AND THE POSITION OF THE HIGH-TEMPERATURE BRANCH OF INTERNAL FRICTION IN FERROALLOYS 67-10 M17-80075
INFLUENCE OF COPPER UPON STRUCTURE AND MECHANICAL PROPERTIES OF GREY CAST IRON--RESULTS OF A SYSTEMATIC INVESTIGATION 67-11 M17-80239

MODULUS OF ELASTICITY, ANISOTROPY
EFFECT OF ANISOTROPY ON THE PROPERTIES AND BEHAVIOR OF METALS WITH FACE-CENTERED CUBIC LATTICE 67-11 M17-81164

MODULUS OF ELASTICITY, COMPOSITION EFFECTS
THE ELASTIC BEHAVIOR OF GRAY CAST IRON. PT. 2. THEORY 67-02 M17-60026

MODULUS OF ELASTICITY, HEATING EFFECTS
EFFECT OF PRERECRYSTALLIZATION ANNEAL ON CHANGES IN ELASTIC CHARACTERISTICS AND STRUCTURE OF COLD ROLLED TI AND ZR 67-05 M17-68973
ANOMALIES OF THE TEMPERATURE DEPENDENCE OF YOUNGS MODULUS OF NIOBIUM-ZIRCONIUM ALLOYS AND OF PURE NIOBIUM 67-09 M17-76791

MODULUS OF ELASTICITY, IMPURITY EFFECTS
THE INFLUENCE OF SOME SOLUTES ON YOUNGS MODULUS OF NIOBIUM 67-06 M17-71063
INTERSTITIAL LOOPS IN GRAPHITE, THEIR MOTION AND THEIR EFFECT ON ELASTIC MODULUS
67-10 M13-78915

MODULUS OF ELASTICITY, PRESSURE EFFECTS
OSCILLATIONS OF ELECTRONIC THERMODYNAMIC CHARACTERISTICS OF A METAL FILM AT HIGH PRESSURES 67-06 M16-71912
ELASTIC MODULI OF GAAS AT MODERATE PRESSURES AND THE EVALUATION OF COMPRESSION TO 250 KBAR 67-09 M17-77454

MODULUS OF ELASTICITY, RADIATION EFFECTS
THE ANNEALING OF IRRADIATION DAMAGE IN GRAPHITE 67-02 M15-59054
MODULUS EFFECTS IN METALS AFTER LOW TEMPERATURE ELECTRON IRRADIATION. PT. 2. AU 67-02 M17-60628
INTERNAL FRICTION PEAKS IN DEUTERON-IRRADIATED TUNGSTEN 67-04 M17-66056
THE EFFECT OF NEUTRON IRRADIATION ON THE ROLLING TEXTURE OF COPPER 67-12 M16-82872

MODULUS OF ELASTICITY, STRESS EFFECTS
EFFECT OF PLASTIC DEFORMATION AND SUBSEQUENT HEAT TREATMENT ON YOUNGS MODULUS AND CRYSTALLOGRAPHIC TEXTURE OF FE-NI-TI INVAR-TYPE ALLOYS 67-04 M17-67386
MECHANICAL AND ELECTRICAL PROPERTIES OF BERYLLIUM WIRE 67-07 M17-73755

MODULUS OF ELASTICITY, TEMPERATURE EFFECTS
A TEMPERATURE-INDEPENDENT ELASTIC MODULUS IN DECOMPOSING NIOBIUM-ZIRCONIUM ALLOYS 67-03 M17-65917
ELASTIC PROPERTIES OF NITI AS A FUNCTION OF TEMPERATURE 67-04 M17-66116
TEMPERATURE DEPENDENCE OF YOUNGS MODULUS OF A TA-W-HF ALLOY 67-07 M17-73407
THE PROPERTIES OF ELECTRODE GRAPHITE AND THEIR EFFECT ON THE USE OF ELECTRODES IN ARC FURNACES. PT. 1. THE TEMPERATURE DEPENDENCE OF VARIOUS PROPERTIES 67-08 M15-75111
THE TEMPERATURE DEPENDENCE OF THE ELASTIC CONSTANTS OF TI AND TI ALLOYS 67-08 M17-75066
TEMPERATURE DEPENDENCE OF ELASTIC MODULI OF RUTHENIUM, RHENIUM, COBALT, DYSPROSIUM, AND ERBIUM., A STUDY OF THE ELASTIC ANISTROPY-PHASE TRANSFORMATION RELATIONSHIP 67-09 M17-77721
SOME MECHANICAL PROPERTIES OF BORON-TUNGSTEN BORIDE FILAMENTS 67-11 M17-80315

MODULUS OF RIGIDITY
SEE SHEAR MODULUS

MODULUS OF RUPTURE
SEE ALSO MODULUS OF RUPTURE IN BENDING
MODULUS OF RUPTURE OF ALUMINA-SILICA REFRACTORIES AT ELEVATED TEMPERATURES 67-03 M05-65763
DEVELOPMENTS WITH HIGH-PURITY PERICLASE 67-04 M17-67737
STRUCTURAL REINFORCED PLASTIC SANDWICH FACINGS VERSUS OTHER COMPOSITE STRUCTURES 67-06 M17-70619
ALUMINA-BONDED REFRACTORIES 67-09 M05-76454

MODULUS OF RUPTURE, COMPOSITION EFFECTS
EFFECT OF THE SILICATE CONSTITUTION OF MAGNESITE BRICKS ON THE HIGH-TEMPERATURE STRENGTH 67-06 M17-70604

MODULUS OF RUPTURE IN BENDING
MECHANICAL PROPERTIES OF NEUTRON-IRRADIATED PYROLYTIC CARBONS 67-06 M17-70887
CHEMICALLY STRENGTHENED, LEACHED ALUMINA AND SPINEL 67-08 M17-76090

MODULUS OF SHEAR
SEE SHEAR MODULUS

MODULUS OF TORSION
SEE SHEAR MODULUS

MOISTENING
SEE WETTING

MOISTURE
SEE WATER

MOISTURE CONTENT
INFLUENCE OF GREEN MOLD PROPERTIES ON THE SHRINKAGE OF IRON CASTINGS 67-04 M06-68094
AUTOMATIC CONTROL AND REGULATION OF THE HUMIDITY OF SINTERING CHARGE 67-05 M19-68319
AUTOMATIC MONITORING AND CONTROL OF MOISTURE CONTENT OF SINTERING MIX 67-07 M19-72847
INFLUENCE OF DEGASSING ATMOSPHERE OF ALUMINUM POWDER ON REABSORPTION OF MOISTURE 67-11 M09-80758
RADIOGRAPHIC DETERMINATION OF MOISTURE IN COKE--A FURTHER STEP IN THE RATIONALIZATION AND AUTOMATION OF BLAST FURNACE OPERATION 67-11 M19-80336

MOISTURE METERS
SEE ALSO HYGROMETERS
PSYCHROMETERS
CONTINUOUS MEASUREMENT OF THE PERMEABILITY OF A SINTER MIX 67-05 M02-68536
MOLALITY
SEE CONCENTRATION /COMPOSITION/
MOLARITY
SEE CONCENTRATION /COMPOSITION/
MOLD DRESSING
MODERN INGOT-MOULD FOUNDRY 67-11 M04-80422
MOLDING /PROCESS/
SEE ALSO BLOW MOLDING
INJECTION MOLDING
PRESSURE MOLDING
INTEGRATED MELTING AND MOLDING AT WILLIAM LEE 67-06 M06-71039
MALLEABLE FOUNDERS COMPLETE EXPANSION SCHEME 67-06 M06-71232
CASTING IN MOLDS PACKED BY PRESSING AT HIGH PRESSURES 67-07 M06-74041
THE USE OF LOW MELTING POINT ALLOYS IN THE SHAPING OF POTTERY 67-09 M06-77817
THE PRODUCTION OF INGOT MOLDS 67-10 M06-78621
MOLDING MACHINES
HIGHLY-AUTOMATED FOUNDRY FOR CAST IRON CONDUIT FITTINGS 67-11 M06-81694
MOLDING MACHINES, AUTOMATION
NEW MALLEABLE IRON FOUNDRY--AUTOMATIC MOULDING AND POURING 67-12 M06-83161
MOLDING MATERIALS
SEE ALSO FOUNDRY SANDS
LIFE OF WATER-COOLED MOULDS IN THE CASTING OF IRON PIPES 67-02 M06-61009
PREVENTION OF SHRINKAGE DEFECTS IN THICK SECTIONS AND HOT SPOTS OF HIGH-DUTY IRON CASTINGS 67-02 M06-61010
AQUACAST PROCESS FOR CASTING NON-FERROUS METALS 67-02 M06-61689
EXPERIMENTAL STUDY OF THE THERMAL DIFFUSIVITY OF MOLDING MATERIALS 67-02 M15-59091
MECHANICAL BURN-ON FORMATION ON THE HIGH ALLOY STEEL CASTINGS 67-04 M06-67946
THERMAL SHOCK RESISTANCE OF CAST IRONS 67-04 M17-67260
THE STATUS OF METAL-FORMING TECHNOLOGY AND CASTING IN 1966 67-05 M06-69142
FACILITIES AND TOOLING FOR EXPLOSIVE FORMING AND SOME ECONOMIC ASPECTS OF H. E. R. FORMING 67-05 M08-69737
THE APPLICATION OF THE SHELL MOLDING PROCESS TO THE PREPARATION OF CORES FOR HEAVY-METAL CASTINGS 67-07 M06-72490
MOLDING MATERIALS, CORROSION
INTERACTION BETWEEN SOLIDIFYING METAL AND MOULD 67-09 M18-78081
MOLDING MATERIALS, CORROSION EFFECTS
INTERACTION OF SOLIDIFIED METAL WITH MOLD 67-02 M18-61809
MOLDING SANDS
SEE FOUNDRY SANDS
MOLDINGS, PLATING
ELECTROPLATING OF PLASTIC MOULDINGS 67-05 M12-68799
MOLDS
SEE ALSO CERAMIC MOLDS
DIE CASTING DIES
HOT TOPS
INGOT MOLDS
PERMANENT MOLDS
SAND MOLDS
GRAPHITE MOLDS IN THE CONTINUOUS CASTING OF NONFERROUS METALS 67-05 M03-68925
AEROSPACE CASTINGS PRODUCED FROM MAGNESIUM-LITHIUM-SILICON ALLOY 67-05 M06-68684
MODEL EXPERIMENT ON THE TOP POURING OF STEEL INGOTS 67-06 M04-72279
MOLDS FOR BLOW MOLDING 67-06 M06-70032
THE FILL OF NONPREHEATED MOLDS FOR PRECISION CASTING, USING INVESTMENT PATTERNS 67-06 M06-70115
EXPERIENCES WITH INGOT MOLDS OF NODULAR CAST IRON. PT. 2. SERVICE PERFORMANCE IN THE STEEL MILL OF INGOT MOLDS OF NODULAR CAST IRON 67-07 M04-73010
HIGH-STRENGTH STEEL FOR MOLDS AND DIES 67-08 M17-74970
PLASTER-MOLD ALUMINUM CASTINGS 67-09 M06-77979
THIN-WALLED TUBULAR MOLDS FOR THE CONTINUOUS CASTING OF STEEL 67-11 M04-80847
POSITION MONITOR FOR CONTINUOUS CASTING MOLDS 67-11 M04-81623
MOLDS, CASTING
CASTING HIGH-STRENGTH MOLDS FROM MAGNESIUM-INOCULATED IRON 67-08 M06-76273
PRODUCING LONG-LIFE INGOT MOULDS MADE OF IRON INOCULATED WITH MAGNESIUM 67-10 M06-79266
MOLDS, COATING
HARD CHROME PLATING LENGTHENS LIFE OF MOLDS 67-05 M12-68665
CENTRIFUGAL CASTING OF IRON PIPES INTO METAL MOLDS COATED WITH SAND-RESIN 67-07 M06-74036
CASTING OF CAST IRON IN METAL MOLD 67-08 M06-74620
MOLD LIFE IN CENTRIFUGAL CASTING OF IRON PIPES 67-12 M06-82096
THERMAL PROPERTIES OF MOLD COATING IN THE METAL MOLD CASTING FOR CAST IRON 67-12 M06-82604
PARTING COMPOUNDS AND MOLDING PAINTS FOR COPPER ALLOY CASTINGS 67-12 M06-83042
MOLDS, CORROSION
SELECTIVE PLATING OF CAVITIES IN PLASTICS MOULDING DIES 67-06 M18-70710
MOLDS, DESIGN
DESIGN FACTORS FOR CASTINGS 67-08 M06-74818
MOLDS, LUBRICANTS
THE LABORATORY TESTING OF MOLD RELEASE AGENTS 67-06 M06-71093
MOLDS, MACHINING
EDM FINISHES AND POLISHING FOR MOLDING APPLICATIONS 67-10 M08-79517
MOLDS, MATERIALS
WELDED CASTING MOLDS OF COPPER 67-05 M06-69071
NEW DEVELOPMENTS IN TITANIUM CASTINGS 67-06 M06-71676
ROLE OF WATER COOLING OF INGOT MOLDS ON THEIR LIFE-TIME 67-11 M06-80571
HANDLING OF MOLDS IN THE FOUNDRY 67-11 M06-80572
MOLDS, SERVICE TIME
EFFECT OF CHEMICAL COMPOSITION AND TECHNOLOGY OF MAN FACTURE ON LIFE OF B.S.P. INGOT MOULDS 67-10 M04-78750
MOLDS, THERMAL PROPERTIES
PHOTOELASTIC SIMULATION OF MOLDS 67-08 M06-76270
SYSTEMS FOR THERMAL BALANCING OF MOLDS IN DIE CASTING SHOPS. DESIGN AND REGULATION 67-09 M06-77669
PHOTOELASTIC MODELLING OF INGOT MOULDS 67-10 M06-79263
INITIAL HEAT EXCHANGE OF METAL AND MOLD 67-12 M06-83035
A STUDY ON THE AIR GAP DURING SOLIDIFICATION OF ALUMINUM ALLOY IN THE METALLIC MOLD 67-12 M06-83111
MOLDS, WELDING
RECLAIMING STEEL CASTING MOLDS BY BUILDUP 67-04 M12-66574
STEEL LADLES RECONDITIONED BY BUILDING UP 67-07 M12-73431
MOLDS, WELDING EFFECTS
MOLD COMPONENTS GIVEN NEW LIFE BY FAST WELDING 67-03 M11-65299
MOLECULAR STRUCTURE
MOLECULAR COMPOSITION OF BISMUTH VAPOR 67-04 M15-67823
ANALYSIS AND EVALUATION OF MOLECULAR CONSTANTS OF BIATOMIC MOLECULES OF CHALCO-GENIDES OF THE V GROUP 67-05 M16-68956
BAND STRUCTURE OF CUBIC ZNS --KORRINGA-KOHN-ROSTOKER METHOD-- 67-06 M16-72096
INORGANIC CHEMISTRY. A GUIDE TO ADVANCED STUDY 67-10 M01-79615
ELECTRONIC STRUCTURE OF ALLOYS OF 3D TRANSITION METALS WITH ALUMINUM 67-11 M16-81108
GASEOUS INTERMETALLIC MOLECULES 67-11 M16-81116
MOLTEN METAL BATHS
SEE METAL BATHS
MOLTEN METALS
SEE LIQUID METALS
MOLTEN SALTS
SEE FUSED SALTS
MOLYBDATES, CRYSTAL LATTICES
RAMAN SPECTRA OF CAWO4, SRWO4, CAMOO AND SRMOO4 67-09 M13-77179
MOLYBDATES, LEACHING

INVESTIGATION OF LEACHING OF MOLYBDENUM CONTAINING PRODUCTS WITH SODA AND CHLORINE
67-06 M03-71302

MOLYBDATES, REDUCTION /CHEMICAL/
BREAKING DOWN MOLYBDENUM CONCENTRATES
67-06 M03-71868

MOLYBDENUM
REFRACTORY METALS CB, TA, MO, W
67-05 M01-68419

MOLYBDENUM, ALLOYING ADDITIVE
EFFECT OF MOLYBDENUM, NIOBIUM, AND TUNGSTEN ON THE STRUCTURE AND PROPERTIES OF AUSTENITIC CHROMIUM-MANGANESE STEELS CONTAINING NITROGEN
67-01 M17-58070
FORMATION OF SIGMA PHASE IN FE-45 PER CENT CR ALLOYS AND EFFECTS OF MOLYBDENUM ADDITIONS ON ITS DILATOMETRIC PROPERTIES 67-02 M14-59979
INFLUENCE OF CERTAIN ALLOYING ELEMENTS ON THE KINETICS OF FORMATION OF PEARLITE
67-02 M14-62064
HALL EFFECT CLOSE TO THE CURIE POINT IN FERROMAGNETIC METALS 67-02 M15-61919
INVESTIGATION OF THE EFFECT OF COMPLEX ALLOYING ON THE PHYSICAL AND MECHANICAL PROPERTIES OF NIOBIUM
67-02 M17-59873
THE EFFECT OF MOLYBDENUM, TUNGSTEN AND VANADIUM ON THE ANNEAL HARDENING OF COLD WORKED 18 CR-12 NI STAINLESS STEEL 67-02 M17-60147
EFFECT OF ALLOYING WITH MOLYBDENUM, TUNGSTEN AND OTHER ELEMENTS ON PROPERTIES AND STRUCTURE OF HEAT RESISTANT NICKEL ALLOYS IN CAST STATE
67-02 M17-61876
INFLUENCE OF CHEMICAL COMPOSITION ON THE ANISOTROPY OF THE IMPACT STRENGTH OF SOME CASE-HARDENING STEELS 67-02 M17-62065
THE SOLUBILITY OF NITROGEN IN MULTICOMPONENT LIQUID IRON ALLOYS 67-03 M14-65081
THE EFFECT OF MOLYBDENUM ON THE HEAT RESISTANCE OF CR-MOV STEELS WITH A LOW CARBON CONTENT
67-04 M15-66020
STRUCTURE AND SOME PROPERTIES OF A CB-TA ALLOY WITH ADDITIONS OF W AND MO 67-04 M17-66444
INFLUENCE OF MOLYBDENUM ON THE STRUCTURE AND PROPERTIES OF A CARBIDE-BEARING AUSTENITIC STEEL
67-04 M17-67023
STUDY OF THE EFFECT OF MICROALLOYING ELEMENTS ON THE INCREASE IN STRENGTH OF STRUCTURAL STEELS USED FOR PRESTRESSED CONCRETE
67-04 M17-67436
EFFECT OF ALLOYING WITH MOLYBDENUM, TUNGSTEN, AND OTHER ELEMENTS ON THE PROPERTIES AND STRUCTURE OF HEAT-RESISTING NICKEL ALLOYS IN THE CAST CONDITION
67-04 M17-67695
RECENT RESEARCH RESULTS ON METALLURGICAL APPLICATIONS OF MOLYBDENUM 67-05 M01-69127
EFFECT OF MOLYBDENUM AND TUNGSTEN ON THE PROPERTIES OF KH25N16G7AR STEEL 67-05 M17-68356
INFLUENCE OF MOLYBDENUM ON THE PROPERTIES OF KH15N85 ALLOY 67-05 M17-68357
THE EFFECT OF COMBINED, SIMULTANEOUS ADDITION OF MO, NB, TI, N, B ON HIGH TEMPERATURE PROPERTIES OF 18CR-12NI AUSTENITIC HEAT RESISTING STEEL
67-05 M17-69711
EFFECT OF SMALL ADDITIONS OF CHROMIUM AND MOLYBDENUM ON THE BEHAVIOR OF CARBON AND NITROGEN IN CARBONITRIDED CASES ON STEEL
67-06 M11-72299
PRECIPITATION-HARDENING BEHAVIOR AND MECHANICAL PROPERTIES OF HEAT-RESISTING ALLOYS CONTAINING UP TO 35 PER CENT COBALT 67-06 M17-70599
EFFECT OF MOLYBDENUM, TUNGSTEN AND COLUMBIUM ON THE RESISTING 20 PER CENT CO, 20 PER CENT CR, 20 PER CENT NI ALLOYS 67-07 M17-73028
INFLUENCE OF MAGNETIC TRANSFORMATION ON ELECTROCHEMICAL BEHAVIOR OF NI-MO ALLOYS
67-08 M14-74790
EFFECT OF MOLYBDENUM ON THE PROPERTIES OF STAINLESS TOOL STEELS 67-08 M17-74344
THE EFFECT OF CR AND MN ADDITIONS ON THE LOW-TEMPERATURE NOTCHED IMPACT STRENGTH OF 14NI6 --FRIDUCTILE N2-- STEEL 67-08 M17-75065
THE EFFECT OF VARIOUS ALLOYING ELEMENTS ON THE EXTENT OF THE GAMMA REGION IN THE FE-CR-C SYSTEM. PT. 1. THE FE-CR-C-MO SYSTEM 67-09 M13-77848
IMPROVEMENT OF LOW-ALLOY HEAT RESISTING STEELS
67-09 M17-77585
EFFECTS OF IRON AND MOLYBDENUM ON THE HIGH-TEMPERATURE PROPERTIES OF CHROMIUM BASE ALLOYS
67-09 M17-78238
EFFECTS OF CARBIDE-FORMING ELEMENTS ON THE KINETICS OF THE ISOTHERMAL TRANSFORMATION OF AUSTENITE AND THE MECHANICAL PROPERTIES OF MANGANESE-MOLYBDENUM STEEL 67-10 M14-78936
THE INFLUENCE OF THE MOLYBDENUM CONTENT ON THE CORROSION RATE OF AUSTENITIC CR-NI STEELS IN THE ACTIVE CONDITION 67-10 M18-78685
THE TENSILE STRENGTH OF NIOBIUM-MOLYBDENUM ALLOYS
67-11 M17-80318
STRUCTURE AND SOME PROPERTIES OF NIOBIUM-TANTALUM ALLOYS CONTAINING TUNGSTEN AND MOLYBDENUM
67-11 M17-80985
PRECIPITATION STRENGTHENING OF FE-6 AT . PER CENT MO 67-12 M10-83052
VARIATIONS OF CRYSTAL MAGNETIC ANISOTROPY IN MO-PERMALLOY WITH HEAT TREATMENTS
67-12 M15-82899
RESEARCH INTO THE INTERATOMIC REACTIONS IN NIOBIUM-TUNGSTEN-MOLYBDENUM SYSTEM ALLOYS
67-12 M17-82497

MOLYBDENUM, BENEFICIATION
OXIDE MOLYBDENUM RECOVERY AT CLIMAX
67-05 M02-68771

MOLYBDENUM, BINARY SYSTEMS
STATE OF ORDERING AND THE ELECTRICAL RESISTIVITY IN THE QUASIBINARY SECTION NI4MO-NI4-W
67-02 M13-61896
THE DENSITY AND SURFACE TENSION ISOTHERMS OF MANGANESE-SILICON MELTS 67-02 M15-62211
PRECIPITATION HARDENING IN BCC BINARY ALLOYS. PROGRESS REPORT TO MARCH 1966
67-04 M10-68160
HIGH-TEMPERATURE MOBILITY OF ATOMS OF MOLYBDENUM-TUNGSTEN SYSTEM COMPONENTS 67-04 M14-66262
PHASE DIAGRAM OF THE MOLYBDENUM-GADOLINIUM SYSTEM
67-05 M13-69249
EQUILIBRIUM DIAGRAM OF THE IRON-MOLYBDENUM SYSTEM
67-06 M14-70810
THE ALPHA-GAMMA EQUILIBRIUM IN FE-MN, FE-MO, FE-NI, FE-SB, FE-SN AND FE-W SYSTEMS
67-08 M13-75813
THE CONSTITUTION OF BINARY MOLYBDENUM-CARBON ALLOYS
67-11 M13-81352
ITINERANT ANTIFERROMAGNETISM IN CHROMIUM ALLOYS
67-12 M15-82905

MOLYBDENUM, BRAZING
BRAZING MOLYBDENUM AND ZIRCON SENSOR COMPONENTS
67-03 M11-65979
REFRACTORY METALS BRAZED FOR OPERATION AT 2200 F
67-06 M11-72254
BRAZING OF MO AND W WITH SN-BASE BRAZING ALLOY
67-07 M11-72735
BRAZING OF GRAPHITE AND SOME OTHER MATERIALS
67-10 M11-78406
SOLDERING MOLYBDENUM AND TUNGSTEN WITH TIN BASE SOLDERS 67-12 M11-82314

MOLYBDENUM, CASTING
MELTING AND CASTING REFRACTORY OR REACTIVE METALS BY PLASMA ELECTRON BEAM 67-09 M06-78223
SLIP CASTING OF MOLYBDENUM PARTS
67-12 M09-83551

MOLYBDENUM, CERMETS
PREPARATION AND MICROSTRUCTURE OF CERMETS AL2O3-MO AND ZRO2-MO 67-02 M13-62112
THE USE OF MOLYBDENUM IN TIC-BASE CERMETS
67-06 M01-70003

MOLYBDENUM, CHEMICAL ANALYSIS
ON THE DETERMINATION OF OXYGEN, NITROGEN AND HYDROGEN IN HIGH-MELTING POINT METALS. PT. 2. RESEARCH ON OPTIMUM ANALYSIS CONDITIONS FOR OXYGEN DETERMINATION IN MOLYBDENUM, USING THE VACUUM EXTRACTION METHOD 67-12 M19-81824

MOLYBDENUM, CHEMISORPTION
CHEMISORPTION OF CARBON MONOXIDE ON MOLYBDENUM
67-08 M14-75370
THE CHEMISORPTION OF CARBON MONOXIDE ON POLYCRYSTALLINE MOLYBDENUM 67-08 M14-75920

MOLYBDENUM, CLAD METALS
COMPATIBILITY OF U-PU-FZ FUEL ALLOYS WITH POTENTIAL CLADDING MATERIALS 67-01 M14-58585
PRODUCING BIMETALS BY VACUUM ROLLING
67-05 M12-68235

MOLYBDENUM, COATING
PROPERTIES OF COATED REFRACTORY METALS. PT. 2
67-01 M12-58003
EFFECT OF IMPURITIES ON THE KINETICS OF VACUUM SILICONIZING OF MOLYBDENUM 67-01 M14-57649
THE SILICONIZING OF REFRACTORY METALS UNDER NONEQUILIBRIUM CONDITIONS 67-02 M10-62210

MOLYBDENUM

THERMAL STABILITY OF CERAMIC COATINGS DEPOSITED ON METALS 67-02 M12-59607
CHROMIZING MOLYBDENUM FOR GLASS SEALING 67-02 M12-60698
THE ELECTRODEPOSITION OF IRIDIUM 67-05 M12-68829
COATING OF MOLYBDENUM WITH TITANIUM IN MOLTEN SALT ELECTROLYTE 67-07 M12-73658
RESEARCH INTO THE SILICONIZING OF MOLYBDENUM IN A GLOW DISCHARGE 67-08 M12-75026
SATURATION WITH BERYLLIUM BY DIFFUSION 67-08 M12-76020
THERMAL SHOCK RESISTANCE OF CERAMIC COATINGS ON METALS 67-09 M12-76925
ELECTRODEPOSITION OF IRIDIUM FROM FUSED SODIUM CYANIDE AND AQUEOUS ELECTROLYTES. A PRELIMINARY STUDY 67-12 M12-81941
THE PRESENT STATE OF DEVELOPMENT OF METAL SPRAYING TECHNIQUES. PT. 4 67-12 M18-82465

MOLYBDENUM, COATINGS
ON RESIDUAL STRESSES IN SPRAYED COATINGS BY PLASMA-JET
INSTITUTE FOR METALS, PROCEEDINGS. TOKYO, JAPAN. 67-04 M17-67591
DIFFUSION COATING OF METALS INTO IRON DURING SINTERING 67-06 M12-71295
BIAS SPUTTERING OF MOLYBDENUM FILMS 67-08 M12-75042
ELECTRODEPOSITION OF COHERENT DEPOSITS OF REFRACTORY METALS. PT. 5. MECHANISM FOR THE DEPOSITION OF MOLYBDENUM FROM A CHLORIDE MELT 67-09 M12-76624
ELECTRODEPOSITION OF COHERENT DEPOSITS OF REFRACTORY METALS. PT. 6. MECHANISM OF DEPOSITION OF MOLYBDENUM AND TUNGSTEN FROM FLUORIDE MELTS 67-09 M12-76627
ADHERENCE TO CERAMIC COMPONENTS OF METAL LAYERS WHICH ARE DIFFICULT TO SEAL 67-09 M12-76749
ADHESIVE STRENGTH OF PLASMA COATINGS WITH THE SUBSTRATES 67-10 M12-79349
PLATING 67-11 M12-80480
SOME PROPERTIES OF OXYACETYLENE FLAME FOR SPRAYING 67-12 M12-83389

MOLYBDENUM, COMPOSITE MATERIALS
THE CHARACTER OF REACTION OF TITANIUM NITRIDE WITH THE IRON GROUP METALS, MOLYBDENUM, AND TUNGSTEN 67-02 M09-62213

MOLYBDENUM, CORROSION
DONT OVERLOOK REFRACTORY METALS FOR CORROSIVE ENVIRONMENTS 67-02 M18-61099
USE OF THE REFRACTORY METALS IN CORROSIVE ENVIRONMENT SERVICE 67-05 M01-69103
CORROSION RESISTANCE OF SOME METALS IN MOLTEN ALUMINUM 67-05 M18-69836
CAVITATION DAMAGE AND CRYSTAL STRUCTURE --A STUDY OF CAVITATION DAMAGE FROM THE VIEWPOINT OF MATERIAL SCIENCE. PT. 3.-- 67-06 M18-70780
USE OF THE REFRACTORY METALS IN CORROSIVE ENVIRONMENT SERVICE 67-11 M18-80295
CORROSION RESISTANCE OF CERTAIN METALLIC MATERIALS IN MOLTEN ALUMINUM 67-12 M18-82269

MOLYBDENUM, CRYSTAL GROWTH
GROWING PURE SINGLE CRYSTALS OF REFRACTORY METALS AND MEASUREMENT OF THE HALL EFFECT ON THESE 67-01 M14-58080
ORIENTATION, PURITY AND PERFECTION OF MOLYBDENUM SINGLE CRYSTALS GROWN BY ELECTRON-BEAM ZONE MELTING 67-02 M14-62083
OBTAINING SINGLE CRYSTALS OF REFRACTORY METALS BY THE CZOCHRALSKI METHOD 67-09 M14-77277
STUDY OF WORK HARDENING AND RECOVERY IN MOLYBDENUM AND TUNGSTEN 67-12 M14-83520

MOLYBDENUM, CRYSTAL LATTICES
DISLOCATION ETCH PITS AND PHASE RELATIONSHIPS IN DIMOLYBDENUM CARBIDE SINGLE CRYSTALS 67-02 M13-59068
FIELD ION MICROSCOPIC OBSERVATIONS OF DISLOCATION STRUCTURES AT GRAIN BOUNDARIES 67-02 M13-61828
STRUCTURE OF VERY THIN TANTALUM AND MOLYBDENUM FILMS 67-02 M14-61826
INTERNAL FRICTION METHOD OF DETERMINING THE CHARACTERISTICS OF A DISLOCATION STRUCTURE 67-04 M17-67645
INTERACTION OF THE RELAXATION SPECTRUM AND HIGH-TEMPERATURE INTERNAL FRICTION BACKGROUND OF REFRACTORY METALS 67-04 M17-67648
THE INFLUENCE OF IRRADIATION TEMPERATURE ON THE DAMAGE STRUCTURE IN NEUTRON-IRRADIATED MOLYBDENUM 67-05 M16-68690
THE EFFECT OF SMALL ADDITIONS AND IMPURITIES ON THE CRYSTALLINE LATTICE CONSTANT AND HEAT EXPANSION OF MOLYBDENUM 67-06 M13-70951
DISLOCATION VELOCITY MEASUREMENTS AND THERMALLY ACTIVATED MOTION IN MOLYBDENUM 67-07 M13-73931
THE NATURE AND ANNEALING BEHAVIOR OF IRRADIATION DAMAGE IN MOLYBDENUM 67-07 M14-73383
PHYSICAL CHARACTERIZATION OF MO SINGLE CRYSTALS FOR IRRADIATION EXPERIMENTS 67-08 M14-75994
DEFECTS IN NEUTRON IRRADIATED MOLYBDENUM 67-09 M13-77927
SUMMING DEVICE FOR AN X-RAY DIFFRACTION CAMERA 67-10 M13-79647

MOLYBDENUM, CRYSTAL STRUCTURE
FORGING AND DRAWING TEXTURES OF MOLYBDENUM WIRE OBTAINED FROM SINGLE CRYSTALS OF VARIOUS ORIENTATIONS 67-06 M13-69983

MOLYBDENUM, DEFORMATION
X-RAY DIFFRACTION STUDY OF THE GEOMETRY OF PLASTIC FLOW AND DEFORMATION BLOCKING IN MOLYBDENUM SINGLE CRYSTALS 67-05 M17-68844
A CRITICAL REVIEW OF THE PEIERLS MECHANISM 67-06 M17-71524

MOLYBDENUM, DEPOSITION
PRODUCTION OF MOLYBDENUM AND RHENIUM FOIL FOR NUCLEAR RESEARCH 67-10 M03-78976

MOLYBDENUM, DESORPTION
THE TRAPPING OF HYDROGEN IONS IN MOLYBDENUM, TITANIUM, TANTALUM AND ZIRCONIUM 67-10 M14-79336

MOLYBDENUM, DIE CASTING DIES
FERROUS DIE CASTING ON THE WAY 67-02 M06-61860

MOLYBDENUM, DIES
MACHINING MOLY DIECASTING DIES 67-07 M08-73857

MOLYBDENUM, DIFFUSION
STUDYING DIFFUSION OF MOLYBDENUM INTO COPPER BY MEASURING THERMOELECTROMOTIVE FORCE 67-02 M14-61559
CALCULATION OF DIFFUSION PARAMETERS 67-02 M14-61918
CARBON TOOL STEEL AND CHROMIUM-NICKEL STRUCTURAL STEEL COATED WITH MOLYBDENUM BY DIFFUSION 67-04 M12-66023
THE INTERDIFFUSION OF NIOBIUM AND MOLYBDENUM 67-04 M14-66160
SOME PECULIARITIES OF CARBON DIFFUSION IN MOLYBDENUM CARBIDE 67-04 M14-66260
RESISTOMETRIC MEASUREMENTS ON MOLYBDENUM IRRADIATED WITH 2.5 MEV ELECTRONS 67-04 M16-66531
STUDY OF THE KINETICS OF DIFFUSION OF SEVERAL ELEMENTS FROM THE SAME SOURCE 67-06 M14-70322
DIFFUSION MECHANISM IN BODY-CENTERED CUBIC METALS 67-06 M14-72066
MUTUAL DIFFUSION OF COLUMBIUM WITH SOME REFRACTORY METALS 67-07 M14-74188
DIFFUSION OF ALKALI METALS IN MOLYBDENUM AND COLUMBIUM 67-07 M14-74189
MOBILITY OF ATOMS OF ALLOYED ELEMENTS IN AUSTENITE 67-08 M14-74958
DIFFUSION OF POTASSIUM IN SINGLE CRYSTALS AND POLYCRYSTALLINE AGGREGATES OF MOLYBDENUM 67-08 M14-74976
THE POSITION ENERGY AND ACTIVATION ENERGY OF DIFFUSION OF INTERSTITIAL IMPURITIES 67-08 M14-75077
THE CONNECTION BETWEEN THE DIFFUSION FACTORS ALONG GRAIN BOUNDARIES AND SURFACE TENSION 67-10 M14-78354
SOME CHARACTERISTICS OF THE DIFFUSION OF CARBON IN MOLYBDENUM CARBIDE 67-10 M14-78992
HIGH-TEMPERATURE MOBILITY OF ATOMS OF THE COMPONENTS IN THE SYSTEM MOLYBDENUM-TUNGSTEN 67-10 M14-78994
DIFFUSION OF MOLYBDENUM IN ALUMINUM 67-12 M14-82378

MOLYBDENUM, DISLOCATIONS
SOME REGULARITIES IN THE FORMATION OF A DISLOCATION STRUCTURE ON THE COLD PLASTIC DEFORMATION OF FE AND MO 67-02 M13-61935

MOLYBDENUM, DISSOLVING
SOLUBILITY STUDIES OF ULTRA PURE TRANSITION ELEMENTS IN ULTRA PURE ALKALI METALS 67-01 M15-58508

MOLYBDENUM, ELECTRICAL PHENOMENA
INFLUENCE OF LOWER CHLORIDES OF TITANIUM ON THE ELECTRODE POTENTIALS OF CERTAIN METALS IN MOLTEN

SALTS 67-09 M15-76510

MOLYBDENUM, ELECTRICAL PROPERTIES
WORK FUNCTION OF METALS 67-06 M16-70492
PRODUCTION AND PURITY CONTROL OF TUNGSTEN AND MOLYBDENUM SINGLE CRYSTALS 67-08 M01-75875

MOLYBDENUM, EXTRACTION
FLOTATION OF MOLYBDENUM ORE BY COUNTERFLOW 67-02 M02-61275
CLIMAX DEDICATES ACID LEACH-CHARCOAL ADSORPTION PROCESS FOR MOLY OXIDE ORES 67-03 M02-65107
NEW WAY TO WIN MOLY 67-03 M02-65115
FIRST CHEMICAL ROUTE FOR MOLYBDENUM PROCESSING 67-04 M02-66331
NONFERROUS METALS AND THE CHEMICAL ENGINEER. PT. 4. LEAD, ZINC, AND MOLYBDENUM 67-04 M03-66332
EXTRACTING MOLYBDENUM FROM ALKALINE SOLUTIONS 67-04 M03-66961
OBTAINING A COPPER-FREE CEMENT BISMUTH FROM COPPER CONCENTRATE 67-05 M03-69532
OBTAINING MOLYBDENUM FROM A GAS PHASE 67-06 M03-70142
INVESTIGATION OF LEACHING OF MOLYBDENUM CONTAINING PRODUCTS WITH SODA AND CHLORINE 67-06 M03-71302
BREAKING DOWN MOLYBDENUM CONCENTRATES 67-06 M03-71868
EXTRACTION OF MOLYBDENUM AND TUNGSTEN FROM ACID SOLUTIONS 67-07 M03-73408
METALLURGY AND APPLICATIONS OF MOLYBDENUM 67-10 M01-73363
PRECIPITATION OF MOLYBDENUM AND TUNGSTEN FROM ACID AQUEOUS SOLUTIONS --EXTRACTION WITH TRIBUTYL PHOSPHATE-- 67-10 M03-80074
SIMULTANEOUS ELECTRODEPOSITION OF NICKEL WITH RHENIUM AND MOLYBDENUM FROM SULFATE-AMMONIA ELECTROLYTE AND THE MECHANISM OF THIS PROCESS 67-11 M03-80439

MOLYBDENUM, EXTRUSION
ON THE THEORY OF THE HYDROEXTRUSION OF BRITTLE METALS 67-05 M07-69664
DEVELOPMENT AND STATUS OF THE APPLICATION OF THE EXTRUSION PROCESS TO STEEL 67-06 M07-70452
LOW-TEMPERATURE EXTRUSION OF REFRACTORY METALS 67-06 M07-70474
LOW-TEMPERATURE EXTRUSION OF REFRACTORY METALS 67-10 M07-79674
EFFECT OF HYDROEXTRUSION ON THE MECHANICAL PROPERTIES OF MOLYBDENUM 67-10 M17-79222
PRESSING OF MOLYBDENUM TUBES 67-12 M08-81798

MOLYBDENUM, FASTENERS
METAL FASTENERS IN ULTRA-HIGH TEMPERATURES 67-05 M20-69556

MOLYBDENUM, FIBER METALLURGY
FILAMENT-REINFORCED REFRACTORY METALS 67-07 M09-73360

MOLYBDENUM, FORMING
MATERIAL ASPECTS OF HIGH ENERGY RATE DEFORMATION AT AMBIENT AND ELEVATED TEMPERATURES 67-05 M17-69743

MOLYBDENUM, HARDENING
METHOD OF OBTAINING METAL BORIDES 67-04 M09-66962
EASY GLIDE IN MOLYBDENUM CRYSTALS 67-06 M17-70437

MOLYBDENUM, HEAT TREATMENT
EFFECT OF MEDIUM AND ANNEALING TEMPERATURE ON PROPERTIES OF MOLYBDENUM 67-01 M10-58054
STRESS RELIEF MECHANISM IN REFRACTORY METALS 67-11 M10-81421

MOLYBDENUM, INTERMETALLICS
THE CRYSTAL STRUCTURE OF MO5AS4 67-01 M13-58510
ISOTHERMAL ORDERING OF NI4MO ALLOY 67-02 M14-62239
THE CRYSTAL STRUCTURE OF MO3SB7 67-05 M13-69227
THE CRYSTAL STRUCTURE OF MOALB 67-06 M13-70455
SUPERCONDUCTIVITY AND ISOTOPE EFFECT IN BE22X COMPOUNDS AND MOLYBDENUM 67-06 M16-71989
THE CRYSTAL STRUCTURES OF CR11GE19, MO13GE23 AND V17GE31 67-09 M13-76451

MOLYBDENUM, IONIZATION
ELECTRON DIFFRACTION DETERMINATION OF THE IONIZATION OF THE CARBON ATOM IN BETA-MO2C CRYSTAL 67-04 M13-67111

MOLYBDENUM, IRRADIATION
INVESTIGATION OF SURFACE BOMBARDMENT DAMAGE BY LEED 67-10 M16-79546

MOLYBDENUM, MACHINING
MACHINING TESTS WITH SINTERED MOLYBDENUM USING TURNING AND DRILLING OPERATIONS 67-02 M08-60223

MOLYBDENUM, MAGNETIC PROPERTIES
GALVANOMAGNETIC PROPERTIES OF MOLYBDENUM CRYSTALS IN INTENSE EFFECTIVE FIELDS 67-06 M01-72033
MEASUREMENTS OF MAGNETIZATION IN SUPERCONDUCTIVE MOLYBDENUM 67-09 M15-77687

MOLYBDENUM, MATERIALS
MANUFACTURE AND PROPERTIES OF MOLYBDENUM 67-08 M20-75840

MOLYBDENUM, MECHANICAL PROPERTIES
NATURE OF BRITTLENESS OF MOLYBDENUM 67-01 M17-57663
INVESTIGATION OF THE BRITTLE FRACTURE OF SINTERED MATERIALS 67-02 M09-61710
SINGLE CRYSTALS OF METALS 67-02 M14-60288
MECHANICAL PROPERTIES AND STRUCTURE OF METAL-CERAMIC SHEET MOLYBDENUM FOR DEEP DRAWING 67-02 M17-59406
SOME CORRELATION PROCEDURES BASED ON THE LARSON-MILLER PARAMETER AND THEIR APPLICATION TO REFRACTORY METAL DATA 67-02 M17-59436
EFFECT OF CARBURIZATION ON THE SHORT-TIME STRENGTH OF TUNGSTEN, MOLYBDENUM AND TANTALUM AT HIGH TEMPERATURES 67-02 M17-59872
INVESTIGATION OF THE HEAT RESISTANCE OF BRITTLE POWDERED-METAL MATERIALS 67-02 M17-59874
RELATION BETWEEN THE HARDNESS AND STRENGTH OF TUNGSTEN AND MOLYBDENUM OVER A WIDE TEMPERATURE RANGE 67-02 M17-60581
INFLUENCE OF HOT ROLLING CONDITIONS ON THE STRUCTURE AND PROPERTIES OF MOLYBDENUM, NIOBIUM AND TITANIUM 67-02 M17-60737
PREVENTION OF HYDROGEN EMBRITTLEMENT IN LITHIUM-COATED PARTS DURING WASHING IN SOLUTIONS 67-02 M17-60973
MECHANISM OF PLASTIC DEFORMATION DURING TENSION OF MOLYBDENUM SINGLE CRYSTALS OF VARIOUS ORIENTATIONS 67-02 M17-62234
RARE METALS AND THEIR ALLOYS AS MATERIALS FOR MODERN TECHNOLOGY 67-03 M17-65181
THE DEFORMATION CHARACTERISTICS OF NB, TA, MO AND W 67-03 M17-65760
THE MECHANICAL BEHAVIOR OF REFRACTORY-METAL ALLOYS 67-04 M17-66196
MECHANICAL PROPERTIES OF REFRACTORY METALS 67-04 M17-66443
SOME PROPERTIES OF POLYCRYSTALLINE MOLYBDENUM 67-04 M17-66452
INFLUENCE OF ANNEALING TEMPERATURE ON STRUCTURE AND PROPERTIES OF CAST MOLYBDENUM 67-04 M17-66456
ACTIVATION ENERGY OF THE TEMPERATURE BACKGROUND OF INTERNAL FRICTION 67-04 M17-66497
EVALUATION OF THE CHARACTERISTICS OF DISLOCATION STRUCTURE IN MEASURING THE AMPLITUDE DEPENDENCE OF INTERNAL FRICTION 67-04 M17-66827
INVESTIGATIONS OF THE MECHANICAL PROPERTIES OF REFRACTORY MATERIALS AT HIGH TEMPERATURES IN A VACUUM AND IN AN INERT MEDIUM 67-04 M17-66860
TWINNING AND CLEAVAGE FRACTURE IN MOLYBDENUM SINGLE CRYSTALS 67-05 M17-68221
RELAXATION DAMPING MAXIMA IN PLASTICALLY DEFORMED MOLYBDENUM AND NIOBIUM SINGLE CRYSTALS 67-05 M17-68577
TEMPERATURE AND STRAIN RATE DEPENDENCE OF THE FLOW STRESS IN MOLYBDENUM 67-05 M17-69787
SOME PROPERTIES OF FLOATING ZONE MELTED MO, W AND TA. PT. 7. THE ELECTRON BEAM MELTING OF REFRACTORY METALS 67-05 M17-69856
DISLOCATION MECHANISMS IN SINGLE CRYSTALS OF TANTALUM AND MOLYBDENUM AT LOW TEMPERATURES 67-06 M13-70411
THE INFLUENCE OF ELASTIC ANISOTROPY ON THE PROPAGATION OF FRACTURE 67-06 M17-70645
EFFECTS OF SOME ADDITIONAL ELEMENTS ON THE DUCTILITY OF ELECTRON BEAM MELTED MOLYBDENUM INGOTS 67-06 M17-70787
TENSILE TESTS AND STRESS-STRAIN MEASUREMENTS IN VACUUM AT HIGH TEMPERATURES 67-06 M17-71513
THE EFFECT OF ORIENTATION AND IMPURITIES ON THE MECHANICAL PROPERTIES OF MOLYBDENUM SINGLE CRYSTALS 67-06 M17-71529
PLASTIC ANISOTROPY OF TANTALUM, NIOBIUM, AND MOLYBDENUM 67-06 M17-71530
MICROSTRAIN BEHAVIOR OF BODY-CENTERED CUBIC METALS 67-06 M17-71533

ULTRAHIGH-VACUUM EFFECTS ON THE MECHANICAL BEHAVIOR OF MOLYBDENUM 67-06 M17-71605
ON THE ORIENTATION DEPENDENCE OF YIELDING IN BCC METALS 67-06 M17-72235
TEMPERATURE DEPENDENCE OF INTERNAL FRICTION OF MO WIRE 67-06 M17-72353
RECOVERY OF INTERNAL FRICTION IN MO SINGLE CRYSTALS 67-06 M17-72355
TEMPERATURE DEPENDENCE OF THE ELASTIC CONSTANTS OF MOLYBDENUM 67-07 M17-72635
PLASTIC PROPERTIES OF THIN SHEET MOLYBDENUM AT VARIOUS DEFORMATION RATES 67-07 M17-73952
SUCCESSIVE STRESS RELAXATION OBSERVED ON MOLYBDENUM POLYCRYSTALS IN PRE-YIELD REGION 67-07 M17-73985
FRACTURES IN MOLYBDENUM ALLOYS EXAMINED UNDER THE ELECTRON MICROSCOPE 67-08 M17-75459
EFFECTS OF SOME ADDITIONAL ELEMENTS ON THE DUCTILITY OF ELECTRON BEAM MELTED MOLYBDENUM INGOTS 67-08 M17-75756
CHARACTER OF FRACTURE OF SINTERED MATERIALS 67-08 M17-75855
THE MANUFACTURE AND PROPERTIES OF MOLYBDENUM 67-08 M17-75939
EFFECT OF NEUTRON IRRADIATION ON MECHANICAL PROPERTIES OF MOLYBDENUM SINGLE CRYSTALS 67-09 M16-77789
THE CREEP-RUPTURE STRENGTH OF MOLYBDENUM COMPOSITE CAST WITH NIMONIC 90 ALLOY 67-09 M17-77263
ELASTIC DEFORMATION OF FIELD-ION-MICROSCOPE TIPS 67-09 M17-77433
EFFECT OF DEFORMATION ON ULTRASONIC DAMPING IN MOLYBDENUM AND NIOBIUM SINGLE CRYSTALS 67-10 M15-79909
EFFECTS OF POLYGONIZATION ON THE HIGH-TEMPERATURE STRENGTH PROPERTIES OF MOLYBDENUM 67-10 M17-78966
STRUCTURAL CHANGES AND MECHANICAL PROPERTIES OF MOLYBDENUM AT ANNEALING 67-10 M17-79229
STUDY OF CERTAIN RADIATION DEFECTS IN METALS BY MEASURING INTERNAL FRICTION AND ELASTIC MODULUS 67-10 M17-79903
STUDY OF THE BEHAVIOR OF INTERSTITIAL ATOMS IN MOLYBDENUM BY INTERNAL FRICTION 67-10 M17-80085
MECHANICAL PROPERTIES OF REFRACTORY METALS 67-11 M17-80984
SOME PROPERTIES OF UNALLOYED MOLYBDENUM 67-11 M17-80993
EFFECT OF THE ANNEALING TEMPERATURE ON THE STRUCTURE AND PROPERTIES OF CAST MOLYBDENUM 67-11 M17-80997
ON THE THEORY OF INTERNAL FRICTION OF PLASTICALLY DEFORMED METALS 67-11 M17-81418
IMPROVING CREEP PROPERTIES OF MOLYBDENUM BY POLYGONIZATION TREATMENT 67-12 M17-81842
HARDENING OF POLYCRYSTALLINE REFRACTORY METALS AND ALLOYS 67-12 M17-81991
SURFACE LAYER EFFECTS ON THE PLASTIC DEFORMATION OF IRON AND MOLYBDENUM 67-12 M17-82573
RESEARCH INTO THE DAMPING PROPERTIES OF CERTAIN HIGH-MELTING METALS AT HIGH TEMPERATURES IN A VACUUM 67-12 M17-83303
BRITTLE FRACTURE ALONG THE GRAIN BOUNDARIES IN MOLYBDENUM 67-12 M17-83311

MOLYBDENUM, MECHANICAL TESTS
ON A METHOD OF TENSILE TESTING OF TUNGSTEN AND MOLYBDENUM SINGLE CRYSTALS 67-05 M17-69634

MOLYBDENUM, METAL WORKING
PRESSURE WORKING OF THIN-WALLED PARTS OF MOLYBDENUM 67-06 M07-70477
EXPLOSIVE-FORMING CHARACTERISTICS OF MATERIALS 67-06 M07-71514
ROLLING OF REFRACTORY METALS IN INERT CONTROLLED ATMOSPHERE 67-08 M07-76246
DRIFT-BOLT AND FLOW-TURNING. PT. 2 67-12 M08-82060
DEEP DRAWING OF MOLYBDENUM SHEETS 67-12 M08-83332

MOLYBDENUM, METALLOGRAPHY
THE DIRECT OBSERVATION OF ETCH-PITS AT DISLOCATIONS IN MOLYBDENUM 67-01 M13-57482
ELECTRON METALLOGRAPHY TECHNIQUES APPLIED TO BODY CENTERED CUBIC METALS AND ALLOYS 67-01 M13-58761
OBTAINING THIN FOIL FROM WELDED JOINT METAL FOR STUDY OF DISLOCATION STRUCTURE 67-04 M13-66441
METHOD OF REMOVING THIN FOIL FROM WELDED JOINTS FOR THE STUDY OF DISLOCATION STRUCTURES 67-07 M13-72700

MOLYBDENUM, MICROSCOPY
THE ION EMISSION MICROSCOPE 67-01 M13-57167
ELECTRON MICROSCOPY AND MICRODIFFRACTION STUDY OF NONMETALLIC INCLUSIONS IN MOLYBDENUM AND ITS ALLOYS 67-05 M13-68208
FIELD EVAPORATION OF METALS IN FIELD ION MICROSCOPE 67-08 M13-75083

MOLYBDENUM, MICROSTRUCTURE
THE EFFECT OF SMALL DEFORMATION ON THE STATIC DISPLACEMENT OF ATOMS IN COPPER AND MOLYBDENUM 67-01 M13-58139
DISLOCATION ETCHING OF DEFORMED MOLYBDENUM 67-01 M13-58397
MORPHOLOGY AND TEXTURE OF CARBONYL MOLYBDENUM AND TUNGSTEN PRECIPITATES 67-02 M13-59930
A METHOD FOR PRODUCING ELECTRON MICROGRAPHS OF SLIP STEPS ON CYLINDRICAL METAL SINGLE CRYSTALS 67-06 M13-70247
MORPHOLOGY AND TEXTURE OF DEPOSITS OF CARBONYL MOLYBDENUM AND TUNGSTEN 67-07 M13-72585
PROOF OF DISLOCATIONS IN TUNGSTEN AND MOLYBDENUM BY ELECTROLYTIC ETCHING 67-08 M13-75601
DETECTION OF THE SUBSTRUCTURE OF W, MO AND RE SINGLE CRYSTALS 67-10 M13-79205
A METHOD FOR DETECTION OF MICROPORES IN METALS 67-10 M13-79206
THE MICROSTRUCTURE OF THE MO-BASE FUSION ZONE IN SI-THYRISTOR DEVICES 67-11 M13-80836

MOLYBDENUM, MOLDS
MOLYBDENUM DIES FOR THE PRESSURE DIECASTING OF STEEL 67-04 M06-67950
SPACE AGE MEETS BRONZE AGE 67-10 M06-78569

MOLYBDENUM, NONDESTRUCTIVE TESTING
THE MAGNETOINDUCTIVE TESTING OF W AND MO WIRES AND RODS 67-07 M19-73195

MOLYBDENUM, OPTICAL PROPERTIES
INTERPOLAR TRANSITIONS IN MOLYBDENUM 67-11 M15-80726

MOLYBDENUM, OXIDATION
GAS-SOLID REACTIONS IN FLOW ENVIRONMENTS AT HIGH TEMPERATURES 67-09 M18-77505

MOLYBDENUM, PHYSICAL PROPERTIES
APPLICATIONS OF REFRACTORY METALS IN INDUSTRIAL FUR 67-01 M20-58451
RELAXATION AND ELASTIC PROPERTIES OF MOLYBDENUM 67-04 M15-67837
THERMAL AND ELECTRICAL PROPERTIES OF POROUS TUNGSTEN AND TUNGSTEN-MOLYBDENUM CATHODE MATERIALS 67-06 M15-70969
VAPOR PRESSURE OF MOLYBDENUM OF DIFFERENT PURITIES 67-08 M15-75900
THE THERMAL DIFFUSIVITY AND THERMAL CONDUCTIVITY OF METALS AT HIGH TEMPERATURES 67-10 M15-78346
THE SPECIFIC HEATS OF HIGH-MELTING METALS AT HIGH TEMPERATURES AND THE FORMATION OF VACANCIES IN THEM 67-10 M15-78347

MOLYBDENUM, POWDER METALLURGY
ROLLING OF TUNGSTEN AND MOLYBDENUM AT LOW-PARTIAL PRESSURE OF OXYGEN 67-02 M09-61621
THE PREPARATION AND INVESTIGATION OF SOME TITANIUM NITRIDE-MOLYBDENUM CERMETS 67-02 M09-62106
THE MANUFACTURE OF MOLYBDENUM PARTS BY THE METHOD OF PLASMA SPRAYING 67-02 M09-62206
ON POWDER ROLLING PROCESS 67-04 M09-67585
REGULARITIES OF SINTERING OF ZIRCONIUM DIBORIDE-MOLYBDENUM ALLOYS 67-06 M09-70959
METHODS FOR IMPROVING THE DUCTILITY OF MOLYBDENUM 67-08 M09-75300
INVESTIGATION OF THE SINTERABILITY OF MOLYBDENUM 67-08 M09-75464
EFFECT OF ALLOYING ELEMENTS ON THE PROPERTIES OF MOLYBDENUM POWDER AND ITS BEHAVIOR DURING SINTERING 67-08 M09-75466
SINTERING OF POWDERED MOLYBDENUM IN A VACUUM FURNACE PROVIDED WITH GRAPHITE HEATERS AND LINING 67-08 M09-75472
ACTIVATED SINTERING OF TUNGSTEN AND MOLYBDENUM POWDERS 67-12 M09-82209

MOLYBDENUM, QUATERNARY SYSTEMS
PHYSICOCHEMICAL STUDY OF ALLOYS OF THE NIOBIUM-TUNGSTEN-MOLYBDENUM CHROMIUM SYSTEM 67-06 M14-70164

MOLYBDENUM, RADIATION EFFECTS
RADIATION DAMAGE IN BODY-CENTERED METALS 67-04 M16-67314
THE INFLUENCE OF IRRADIATION TEMPERATURE ON THE

DAMAGE STRUCTURE IN NEUTRON-IRRADIATED MOLYBDENUM
67-08 M16-76205

MOLYBDENUM, REACTIONS /CHEMICAL/
KINETICS OF THE ATTACK OF HIGH-TEMPERATURE MOLYBDENUM AND TUNGSTEN BY ATOMIC OXYGEN
67-06 M14-72165
NOBLE METALS, MOLYBDENUM AND TUNGSTEN IN HYDROCARBON SYNTHESIS 67-08 M14-76159

MOLYBDENUM, RECRYSTALLIZATION /METALLURGICAL/
KINETICS OF PRIMARY, COLLECTIVE AND SECONDARY RECRYSTALLIZATION IN MOLYBDENUM FOIL
67-05 M14-69650

MOLYBDENUM, REFINING
THE ELECTRON BOMBARDMENT SMELTING FURNACE OF LA CIE PECHINEY 67-03 M03-65194
ZONE REFINING OF MOLYBDENUM 67-12 M03-82112

MOLYBDENUM, ROLLING
SOME SPECIFIC FEATURES OF HOT ROLLING REFRACTORY METALS IN A VACUUM AND IN AN ATMOSPHERE OF INERT GAS 67-02 M07-62220
STUDY OF THE STRUCTURE AND PROPERTIES OF ROLLS AFTER VACUUM HOT ROLLING OF MOLYBDENUM
67-12 M07-83538

MOLYBDENUM, SEMICONDUCTORS
SUPPORT MATERIALS FOR SEMICONDUCTOR DEVICES
67-05 M16-68668

MOLYBDENUM, SINGLE CRYSTALS
GALVANOMAGNETIC PROPERTIES OF MOLYBDENUM CRYSTALS IN STRONG EFFECTIVE FIELDS 67-10 M15-79539
SCATTERING OF 5-40 KEV PROTONS BY MOLYBDENUM SINGLE CRYSTALS 67-11 M16-81371
THE EFFECTS OF DEFORMATION ON THE ELECTRICAL RESISTIVITY OF MOLYBDENUM SINGLE CRYSTALS
67-12 M15-82858
THE STRESS DEPENDENCE OF DISLOCATION VELOCITY IN THE MICROSTRAIN REGION 67-12 M17-82877

MOLYBDENUM, SOLUBILITY
THE SOLUBILITY OF CHROMIUM IN LIQUID SILVER AND MOLYBDENUM AND TUNGSTEN IN LIQUID TIN
67-12 M14-82726

MOLYBDENUM, STRIP
ROUNDED-EDGE STRIP PRODUCTION BY ROLL FLATTENING WIRE 67-01 M07-58183

MOLYBDENUM, SUPERCONDUCTORS
TYPE-1 SUPERCONDUCTIVITY IN MOLYBDENUM
67-11 M16-80627

MOLYBDENUM, SURFACE PROPERTIES
A LEED STUDY OF CO AND CO2 ADSORPTION ON MO --110--
67-06 M15-71022
ADSORPTION OF NITROGEN AND CARBON MONOXIDE ON MOLYBDENUM 67-06 M15-71043

MOLYBDENUM, TERNARY SYSTEMS
THE STRUCTURE OF SOME ALLOYS IN THE TERNARY TI-MO-C SYSTEM 67-01 M14-57599
PHASE DIAGRAM OF THE HFC-MO SYSTEM
67-02 M13-59666
PHASE EQUILIBRIA IN THE SYSTEM MOLYBDENUM-CHROMIUM-CARBON 67-02 M13-61790
X-RAY INVESTIGATIONS IN A FEW T-T5-AL SYSTEMS
67-02 M13-61888
EFFECT OF VANADIUM AND MOLYBDENUM ON THE PROPERTIES AND PHASE CONVERSIONS OF THE METALLIDE TICR2
67-02 M13-62181
PHASE COMPOSITION AND SOME PROPERTIES OF ALLOYS OF THE MOLYBDENUM-NICKEL-BORON SYSTEM
67-02 M13-62186
STUDY OF THE PHASE DIAGRAM OF THE W-MO-TI TERNARY SYSTEM 67-03 M13-65792
THE ZRC-MO PHASE DIAGRAM 67-04 M14-67236
NUCLEAR MAGNETIC RESONANCE AND SPECIFIC HEAT MEASUREMENTS OF TRANSITION METALS AND ALLOYS.. TI-V-FE AND ZR-NB-MO SYSTEMS 67-05 M16-69758
CRSI2-MOSI2 DIAGRAM 67-06 M13-70170
INVESTIGATIONS OF THE SYSTEMS --MO, W-----FE, CO, NI---B 67-06 M13-70219
THE CO REGION OF THE TERNARY SYSTEM CO-MO-B
67-06 M13-70220
ISOTHERMAL SECTION OF THE MOLYBDENUM-IRON-BORON SYSTEM 67-06 M13-70773
EFFECT OF VANADIUM AND MOLYBDENUM ON THE PROPERTIES AND PHASE TRANSFORMATIONS OF THE INTERMETALLIC COMPOUND TICR2 67-08 M13-75957
PHASE COMPOSITION AND SOME PROPERTIES OF ALLOYS OF THE SYSTEM MOLYBDENUM-NICKEL-BORON
67-08 M13-75962
INTERACTION BETWEEN THE METALLIDE TICR2 AND MOLYBDENUM 67-09 M13-76943
THE MOLYBDENUM-IRON-SILICON SYSTEM
67-09 M13-77758
CONSTITUTIONAL STUDIES ON THE TERNARY SYSTEM PLUTONIUM-MOLYBDENUM-CARBON, PLUTONIUM-SILICON-CARBON AND PLUTONIUM-THORIUM-CARBON
67-09 M14-76345
MEASUREMENT OF CARBON SOLUBILITY AND ELECTROCHEMICAL DETERMINATION OF MANGANESE ACTIVITY IN CARBON-SATURATED MN-CO-C AND MN-NI-C SYSTEMS AT 1320 C 67-09 M14-78014
STUDY OF ATOMIC INTERACTION IN ALLOYS OF THE COLUMBIUM-TUNGSTEN-MOLYBDENUM SYSTEM
67-10 M16-79730
ISOTHERMAL SECTIONS AT 600 AND 750 C. OF THE PHASE DIAGRAM OF THE MOLYBDENUM-TITANIUM-ZIRCONIUM SYSTEM 67-12 M13-83353

MOLYBDENUM, THERMAL PROPERTIES
STRAIN MEASUREMENTS IN TUBES DURING RAPID TRANSIENT HEATING 67-10 M15-78776

MOLYBDENUM, THERMOCOUPLES
CONTINUOUS MEASUREMENT OF THE BATH TEMPERATURE IN OXYGEN CONVERTERS AND DATA DERIVED WITH RESPECT TO THE MELTING PROCESS 67-06 M04-70977

MOLYBDENUM, THIN FILMS
CHEMICAL VAPOR DEPOSITION OF MO ONTO SI
67-05 M12-68630
A NEW MASKING TECHNIQUE FOR SEMICONDUCTOR PROCESSING 67-09 M15-77895

MOLYBDENUM, WELDING
ELECTRON MECHANISM OF DIFFUSION WELDING
67-04 M11-66432
DIFFUSION BONDING BERYLLIUM, MOLYBDENUM AND TUNGSTEN 67-05 M11-68675
THE ELECTRON THEORY OF DIFFUSION WELDING
67-07 M11-72691
WELDING OF REFRACTORY ALLOYS 67-08 M11-74463
LASERS FIND USE FOR PRODUCTION WELDING
67-08 M11-74727
ELECTRON BEAM WELDING OF IMPREGNATED CATHODES OF ELECTROVACUUM DEVICES 67-08 M11-75416
THE ELECTRON-BEAM WELDING OF IMPREGNATED CATHODES FOR VACUUM-ELECTRIC DEVICES 67-12 M11-82037
RESISTANCE BUTT WELDING OF MOLYBDENUM TO ARMCO IRON
67-12 M11-83189

MOLYBDENUM, WIRE
AUTOMATION OF WIRE TESTING 67-07 M19-74159

MOLYBDENUM, WORK FUNCTIONS
ANISOTROPIC WORK FUNCTIONS OF MOLYBDENUM SINGLE CRYSTALS 67-04 M13-68012

MOLYBDENUM, X RAY ANALYSIS
THE EFFECT OF SYSTEMATIC REFLECTIONS ON THE --110-- EXTINCTION DISTANCE IN MOLYBDENUM
67-11 M13-80613

MOLYBDENUM BASE ALLOYS, ATOMIC PROPERTIES
NMR AND MAGNETIC SUSCEPTIBILITY OF CO MAGNETIC IMPURITIES IN TRANSITION METAL HOSTS
67-07 M16-73528

MOLYBDENUM BASE ALLOYS, ATOMIC STRUCTURE
THE ELECTRONIC STRUCTURE OF MOLYBDENUM-TUNGSTEN ALLOYS 67-05 M16-68258

MOLYBDENUM BASE ALLOYS, BRAZING
RECRYSTALLIZATION BEHAVIOR AND BRAZING OF THE TZM MOLYBDENUM ALLOY 67-09 M11-78146

MOLYBDENUM BASE ALLOYS, CASTING
PREVENTION OF MOLYBDENUM ALLOY INGOT CRACKING BY CAPPING 67-01 M03-58462

MOLYBDENUM BASE ALLOYS, CHEMICAL ANALYSIS
THE SPECTROPHOTOMETRIC DETERMINATION OF CHROMIUM IN ANODIC POWDERS 67-05 M19-69618

MOLYBDENUM BASE ALLOYS, COATING
THE HIGH TEMPERATURE EVALUATION OF AEROSPACE MATERIALS 67-03 M17-65935
THE ANODIC OXIDATION OF ALLOYS 67-05 M18-68619
PROTECTIVE COATINGS FOR REFRACTORY MATERIALS
67-08 M12-75862
OXIDATION RESISTANT COATINGS FOR REFRACTORY METALS IN AIRCRAFT GAS TURBINE ENGINES
67-12 M12-82078

MOLYBDENUM BASE ALLOYS, COATINGS
THE ELECTRODEPOSITION OF COPPER-MOLYBDENUM ALLOYS
67-04 M12-68111

MOLYBDENUM BASE ALLOYS, CORROSION
CORROSION STUDIES OF TUNGSTEN MOLYBDENUM AND RHENIUM IN LITHIUM 67-04 M18-66390
CAVITATION DAMAGE STUDIES WITH ROTATING DISK IN WATER 67-06 M18-71638

MOLYBDENUM BASE ALLOYS, CRYSTAL GROWTH
PRODUCTION AND PROPERTIES OF MONOCRYSTALS OF HIGH-MELTING METALS AND ALLOYS 67-08 M14-75024

MOLYBDENUM BASE ALLOYS, CRYSTAL LATTICES
THE EFFECT OF SMALL ADDITIONS AND IMPURITIES ON THE

MOLYBDENUM BASE ALLOYS

CRYSTALLINE LATTICE CONSTANT AND HEAT EXPANSION OF MOLYBDENUM 67-06 M13-70951
MOLYBDENUM BASE ALLOYS, DIES
MOLYBDENUM DIES FOR THE EXTRUSION OF STEEL SHAPES 67-01 M07-57917
MOLYBDENUM BASE ALLOYS, DIFFUSION
SELF-DIFFUSION OF NIOBIUM IN SOME OF ITS ALLOYS CONTAINING MOLYBDENUM 67-01 M14-57314
THE ATOMIC MOBILITY IN A MOLYBDENUM-TUNGSTEN ALLOY 67-02 M14-58994
HIGH-TEMPERATURE MOBILITY OF ATOMS OF MOLYBDENUM-TUNGSTEN SYSTEM COMPONENTS 67-04 M14-66262
MOLYBDENUM BASE ALLOYS, EXTRUSION
VACUUM PRESSING OF HEAT RESISTANT METALS 67-12 M08-83024
MOLYBDENUM BASE ALLOYS, FORGING
FORGING TECHNOLOGY EXPANDS TO MEET MARKET NEEDS 67-11 M07-80300
MOLYBDENUM BASE ALLOYS, HEAT TREATMENT
INVESTIGATION OF THE AGING KINETICS OF MOLYBDENUM-BASE ALLOYS 67-04 M14-66199
MOLYBDENUM BASE ALLOYS, IRRADIATION
ANTIEMISSION ALLOY 67-12 M16-83324
MOLYBDENUM BASE ALLOYS, MAGNETIC PROPERTIES
THE MAGNETIC PROPERTIES OF THE MOLYBDENUM-IRON SOLID SOLUTION 67-11 M15-80372
MOLYBDENUM BASE ALLOYS, MECHANICAL PROPERTIES
NATURE OF PLASTICITY OF MO-RE ALLOYS 67-01 M17-57674
HOT-WORKING TOOLS 67-01 M20-58700
REFRACTORY METALS --CB, TA, MO, W-- 67-02 M01-61817
INFLUENCE OF TI, ZR AND HF ON PROPERTIES OF MO-C ALLOYS 67-04 M17-66450
MICROSTRUCTURE AND MECHANICAL PROPERTIES OF PRESSED TSM2A MOLYBDENUM ALLOY 67-04 M17-66451
EFFECT OF IRRADIATION ON BEND TRANSITION TEMPERATURES OF MOLYBDENUM- AND COLUMBIUM-BASE ALLOYS 67-07 M17-73380
DUCTILITY OF SINTERED UNWORKED MOLYBDENUM-CARBON ALLOYS 67-07 M17-73401
REFRACTORY METALS --CB, TA, MO, W-- 67-08 M01-75390
INFLUENCE OF SURFACE OXIDATION ON THE ELASTIC AFTEREFFECT OF MICROFOILS OF DIFFERENT ALLOYS 67-06 M17-74985
ORIGIN OF MICROCRACKS IN MO-35 AT.PER CENT RE ALLOY 67-08 M17-75282
RESEARCH INTO THE STRUCTURE AND PROPERTIES OF MOLYBDENUM-NIOBIUM SYSTEM ALLOYS IN THE MONOCRYSTALLINE STATE 67-08 M17-75447
CREEP PROPERTIES OF REFRACTORY METAL ALLOYS IN ULTRAHIGH VACUUM 67-08 M17-76145
MOLYBDENUM ALLOYS 67-09 M17-77324
DUCTILE BRITTLE TRANSITION OF TUNGSTEN-MOLYBDENUM ALLOYS 67-09 M17-77784
REFRACTORY METALS CB, TA, MO, W 67-10 M01-79801
THE MECHANICAL BEHAVIOR OF REFRACTORY-METAL ALLOYS 67-11 M17-80791
EFFECT OF TITANIUM, ZIRCONIUM, AND HAFNIUM ON THE PROPERTIES OF MOLYBDENUM ALLOYED WITH CARBON 67-11 M17-80991
MICROSTRUCTURE AND MECHANICAL PROPERTIES OF PRESSED TSM2A ALLOY 67-11 M17-80992
ELASTIC PROPERTIES OF BINARY NIOBIUM ALLOYS CONTAINING TUNGSTEN, MOLYBDENUM, IRON AND NICKEL 67-11 M17-81170
DYNAMIC STRENGTH OF TENSION MEMBERS --EXTENDERS-- MADE OF MR47-VP MO-RE ALLOY 67-12 M17-81994
ELEVATED-TEMPERATURE FATIGUE OF TZC MOLYBDENUM ALLOY UNDER HIGH-FREQUENCY AND HIGH-VACUUM CONDITIONS 67-12 M17-83062
MOLYBDENUM BASE ALLOYS, METAL FORMING
TRY SHEAR-SPINNING TO FORM TOUGH ALLOYS 67-09 M08-77490
MOLYBDENUM BASE ALLOYS, METAL WORKING
SUBSTRUCTURAL STRENGTHENING OF A PRECIPITATION HARDENED MOLYBDENUM ALLOY 67-06 M14-72221
MOLYBDENUM BASE ALLOYS, METALLOGRAPHY
ELECTRON METALLOGRAPHY TECHNIQUES APPLIED TO BODY CENTERED CUBIC METALS AND ALLOYS 67-01 M13-58761
MOLYBDENUM BASE ALLOYS, MICROSCOPY
ELECTRON MICROSCOPY AND MICRODIFFRACTION STUDY OF NONMETALLIC INCLUSIONS IN MOLYBDENUM AND ITS ALLOYS 67-05 M13-68208
MOLYBDENUM BASE ALLOYS, MICROSTRUCTURE
STRUCTURAL CHANGES IN DEFORMED COLUMBIUM AND ITS ALLOYS DURING HEATING 67-04 M14-66445
STRUCTURAL AND SUBSTRUCTURAL CHANGES IN DEFORMED MO ALLOYS DURING HEATING 67-06 M13-72360
CHANGES IN THE STRUCTURE OF DEFORMED NIOBIUM AND NIOBIUM ALLOYS DURING HEATING 67-11 M14-80986
MOLYBDENUM BASE ALLOYS, OXIDATION
EFFECT OF YTTRIUM ON THE OXIDATION OF MOLYBDENUM AT HIGH TEMPERATURES 67-05 M18-69250
MOLYBDENUM BASE ALLOYS, PHASES /STATE OF MATTER/
ZIRCONIUM-MOLYBDENUM NITRIDE 67-05 M14-68217
MOLYBDENUM BASE ALLOYS, PHYSICAL PROPERTIES
A MOLYBDENUM-BASE ALLOY 67-10 M01-78355
TZC NOW COMMERCIALLY AVAILABLE 67-11 M01-81331
PHYSICAL AND MECHANICAL PROPERTIES OF TI-NB-MO ALLOYS 67-12 M15-82161
MOLYBDENUM BASE ALLOYS,
RECRYSTALLIZATION #METALLURGICAL#
EFFECT OF LANTHANUM AND YTTRIUM ON THE RECRYSTALLIZATION OF MOLYBDENUM 67-05 M14-68209
KINETICS OF PRIMARY, COLLECTIVE AND SECONDARY RECRYSTALLIZATION IN MOLYBDENUM FOIL 67-05 M14-69650
MOLYBDENUM BASE ALLOYS, ROLLING
THE REFRACTORY METALS SHEET ROLLING PROGRAM 67-06 M07-70124
MOLYBDENUM BASE ALLOYS, SOLUBILITY
AN ORDERED SOLID SOLUTION IN THE CHROMIUM-MOLYBDENUM SYSTEM 67-09 M13-76935
MOLYBDENUM BASE ALLOYS, SPECIFICATIONS
SYLVANIA MT-104 --HIGH TEMPERATURE MOLYBDENUM ALLOY-- 67-04 M01-67300
MOLYBDENUM BASE ALLOYS, SUPERCONDUCTIVITY
THE EFFECT OF HIGH PRESSURE ON THE SUPERCONDUCTING TRANSITION TEMPERATURE OF THE ALLOYS MO90RE10 AND NB75MO25 67-05 M16-69026
MAGNETIZATION MEASUREMENTS OF SUPERCONDUCTING MO-RE-ALLOYS CONTAINING IRON 67-10 M16-78445
MOLYBDENUM BASE ALLOYS, SUPERCONDUCTORS
MAGNETIC PROPERTIES OF SUPERCONDUCTING MO-RE ALLOYS 67-04 M16-68140
MOLYBDENUM BASE ALLOYS, THERMAL PROPERTIES
THERMAL EXPANSION OF SOLID SOLUTIONS OF REFRACTORY METALS OF THE 4, 5, AND 6 GROUPS IN THE PERIODIC TABLE 67-01 M15-58081
THERMAL EXPANSION OF SOLID SOLUTIONS OF METALS OF GROUPS VI, V AND IV OF THE PERIODIC SYSTEM WITH HIGH MELTING POINTS 67-08 M15-74995
MOLYBDENUM BASE ALLOYS, TRANSPORT PROPERTIES
ELECTRIC TRANSPORT IN MOLYBDENUM-BASE ALLOYS 67-09 M15-77278
MOLYBDENUM BASE ALLOYS, WELDING
DIFFUSION BONDING BERYLLIUM, MOLYBDENUM AND TUNGSTEN 67-05 M11-68675
MOLYBDENUM CHROMIUM NICKEL STEELS
SEE NICKEL CHROMIUM MOLYBDENUM STEELS
MOLYBDENUM CHROMIUM STEELS
SEE CHROMIUM MOLYBDENUM STEELS
MOLYBDENUM COMPOUNDS, BENEFICIATION
DIRECT DETERMINATION OF SULFIDIC MOLYBDENUM IN FLOTATION TAILINGS 67-01 M02-57301
DEVELOPMENT AND DESIGN OF THE MISSION UNIT BY-PRODUCTS PLANT 67-01 M02-58695
INDUSTRIAL TESTS OF THE BENEFICIATION OF MOLYBDENUM-WOLFRAM ORE FROM THE MIKHAILOVGRADSKO PEREKOP DEPOSIT 67-02 M02-59544
REACTION OF CALCIUM, MAGNESIUM AND LEAD MOLYBDATES WITH A SODIUM CARBONATE SOLUTION 67-02 M02-59549
COPPER SULFITE METHOD OF SEPARATING BULK MOLYBDENITE-CONTAINING CONCENTRATES 67-09 M02-76884
TEST OF A FIBERGLASS BAG FILTER BY USING ROAST GAS OF MO CONCENTRATES IN A FURNACE WITH A FLUIDIZED BED 67-09 M02-76967
IMPROVED SCHEMES AND CONDITIONS OF COPPER-MOLYBDENUM ORE FLOTATION 67-10 M02-80073
RECOVERY OF MOLYBDENITE AT TOQUEPALA 67-11 M02-81206
ROLE OF REDOX REACTIONS DURING THE FLOTATION OF SULFIDE MINERALS 67-12 M02-83366
BEHAVIOR OF MOLYBDENUM DURING PYROMETALLURGICAL TREATMENT OF COPPER CONCENTRATES 67-12 M02-83406
THE EFFECT AND INTERRELATION BETWEEN MAIN PARAMETERS OF OXIDIZING STEAMING DURING THE SELECTION OF COPPER-MOLYBDENUM CONCENTRATES 67-12 M02-83442

MOLYBDENUM COMPOUNDS, BINARY SYSTEMS
SUPERCONDUCTIVITY OF THE TRANSITION-METAL CARBIDES
67-10 M16-78733
MOLYBDENUM COMPOUNDS, CASTING
SLIP CASTING OF MOLYBDENUM DISILICIDE
67-06 M09-70958
MOLYBDENUM COMPOUNDS, CORROSION
INVESTIGATION OF THE KINETICS OF OXIDATION OF MOLYBDENUM DISILICIDE FROM 1500 TO 1800 C
67-02 M18-59946
MOLYBDENUM COMPOUNDS, CRYSTAL LATTICES
DISLOCATION ETCH PITS AND PHASE RELATIONSHIPS IN DIMOLYBDENUM CARBIDE SINGLE CRYSTALS
67-02 M13-59068
THE OBSERVATION OF THICK SPECIMENS BY HIGH VOLTAGE ELECTRON MICROSCOPY. EXPERIMENTS WITH MOLYBDENITE FILMS AT 50-500 KV
67-08 M13-75934
BORON-RICH TUNGSTEN BORIDE 67-10 M13-80012
MOLYBDENUM COMPOUNDS, DIFFUSION
SOME PECULIARITIES OF CARBON DIFFUSION IN MOLYBDENUM CARBIDE 67-04 M14-66260
SOME CHARACTERISTICS OF THE DIFFUSION OF CARBON IN MOLYBDENUM CARBIDE 67-10 M14-78992
MOLYBDENUM COMPOUNDS, ELECTRIC HEATING ELEMENTS
HIGH-TEMPERATURE MOLYBDENUM DISILICIDE HEATERS
67-11 M20-81326
MOLYBDENUM COMPOUNDS, EXTRACTION
CARBON ADSORPTION IS KEY TO RECOVERY OF MOLYOXIDE AT NEW CLIMAX PLANT 67-04 M02-67497
ACID-EXTRACTION TREATMENT OF TUNGSTEN-MOLYBDENUM MATERIALS 67-11 M03-80755
MOLYBDENUM COMPOUNDS, LUBRICANTS
THE INFLUENCE OF SUBSTRATE HARDNESS ON THE FORMATION AND ENDURANCE OF MOLYBDENUM DISULPHIDE FILMS 67-06 M17-71030
LUBRICATING WITH MOLYBDENUM DISULFIDE
67-07 M08-74289
MOS2 IN BEARINGS 67-10 M20-78457
THE CORROSION BEHAVIOR OF PALLADIUM IN TITANIUM-PALLADIUM ALLOY 67-12 M01-82504
MOLYBDENUM COMPOUNDS, MACHINING
THE ELECTROCHEMICAL MACHINING OF TUNGSTEN AND MOLYBDENUM CARBIDES 67-10 M08-78660
MOLYBDENUM COMPOUNDS, MECHANICAL PROPERTIES
PLASTIC DEFORMATION OF REFRACTORY COMPOUNDS
67-02 M09-60184
MICROHARDNESS ANISOTROPY, SLIP, AND TWINNING IN MO2C SINGLE CRYSTALS 67-02 M17-59437
PLASTIC STRAIN OF HIGH-MELTING POINT COMPOUNDS
67-09 M17-76917
ISOTHERMAL YOUNGS MODULUS OF UO2 AND UO2-MO-CERMETS 67-10 M17-78361
MOLYBDENUM COMPOUNDS, OXIDATION
OXIDATION OF LOWER TUNGSTEN AND MOLYBDENUM SILICIDES 67-01 M18-57651
THE ROLE OF IRON IN THE OXIDATION OF MOLYBDENUM DISILICIDE 67-06 M18-71615
MOLYBDENUM COMPOUNDS, PHASES /STATE OF MATTER/
THE MOO3-CUO SYSTEM 67-12 M13-82139
MOLYBDENUM COMPOUNDS, PHYSICAL PROPERTIES
PHYSICAL PROPERTIES OF SOLID SOLUTIONS IN THE SYSTEM CBC-MO3C2 67-08 M15-74312
THE FREE ENERGIES OF FORMATION OF CRS, MO2S3, AND WS2 67-12 M15-82572
MOLYBDENUM COMPOUNDS, POWDER METALLURGY
CARBOTHERMAL METHOD OF PREPARATION OF CHROMIUM, MOLYBDENUM AND ZIRCONIUM BORIDES
67-04 M09-66261
CARBOTHERMIC METHOD OF PREPARATION OF CHROMIUM, MOLYBDENUM, AND ZIRCONIUM BORIDES
67-10 M09-78993
MOLYBDENUM COMPOUNDS, PRESSING
THE PROCESS OF COMPACTION OF MOLYBDENUM DISILICIDE
67-06 M09-70764
MOLYBDENUM COMPOUNDS, REACTIONS /CHEMICAL/
INTERACTION OF MOO3 AND FE2O3 WITH CARBON
67-02 M14-60051
INVESTIGATION OF INITIAL STAGES OF INTERACTION OF OXIDES OF CERTAIN METALS WITH CARBON
67-02 M14-60543
OXIDATION DATA FOR MOS2, WS2, WSE2, TAS2 AND TASE2 BY THERMOGRAVIMETRIC ANALYSIS
67-08 M14-76196
MOLYBDENUM COMPOUNDS, REDUCTION /CHEMICAL/
ON THE PREPARATION OF SOME CHROMIUM, MOLYBDENUM AND TUNGSTEN BORIDES 67-12 M14-81830
MOLYBDENUM COMPOUNDS, REFINING
EXTRACTING RHENIUM FROM UNTREATED MOLYBDENUM SULFIDE CONCENTRATES 67-04 M03-67128
PRODUCTS AND MECHANISM OF THERMAL DISSOCIATION OF MOLYBDENITE 67-09 M03-77058
MOLYBDENUM COMPOUNDS, SUPERCONDUCTIVITY
HIGH SUPERCONDUCTING TRANSITION TEMPERATURES IN THE MOLYBDENUM CARBIDE FAMILY OF COMPOUNDS
67-11 M16-80317
MOLYBDENUM COMPOUNDS, TERNARY SYSTEMS
REACTION OF CHROMIUM, MOLYBDENUM, AND TUNGSTEN BORIDES WITH CARBON 67-02 M14-61634
ALLOY COMPOSITIONS OF HFB2 WITH URANIUM AND TRANSITION METAL BORIDES 67-04 M14-67453
MOLYBDENUM COMPOUNDS, THERMAL PROPERTIES
STABILITY OF REFRACTORY COMPOUNDS IN FUSED BASALT
67-06 M09-71468
EMISSIVITY OF MOLYBDENUM DISILICIDE COATINGS
67-06 M15-72039
FUNDAMENTAL STUDY OF THE APPLICABILITY OF CARBIDES TO THE CONSTRUCTION OF HIGH-POWER TUBES
67-07 M20-73836
STABILITY OF REFRACTORY COMPOUNDS IN FUSED BASALT
67-12 M09-82789
MOLYBDENUM COMPOUNDS, THIN FILMS
ELECTRON-BEAM DEPOSITION OF MOLYBDENUM CARBIDE FILMS FROM MOLYBDENUM HEXACARBONYL
67-10 M15-79446
INVESTIGATION OF THE DEPOSITION OF MOLYBDENUM CARBIDE FILMS FROM MOLYBDENUM HEXACARBONYL USING AN ELECTRON BEAM 67-11 M12-81052
MOLYBDENUM COMPOUNDS, TRANSPORT PROPERTIES
PHOTORESPONSE STUDIES OF VAPOR-DEPOSITED MO-SI SYSTEMS 67-07 M15-72631
VACUUM THERMIONIC WORK FUNCTIONS AND THERMAL STABILITY OF TAB2, ZRC, MO2C, MOSI2, TASI2 AND WSI2 67-08 M16-75125
MOLYBDENUM NICKEL CHROMIUM STEELS
SEE NICKEL CHROMIUM MOLYBDENUM STEELS
MOLYBDENUM NICKEL STEELS
SEE NICKEL MOLYBDENUM STEELS
MOLYBDENUM STEELS
SEE ALSO CHROMIUM MOLYBDENUM STEELS
NICKEL CHROMIUM MOLYBDENUM STEELS
NICKEL MOLYBDENUM STEELS
MOLYBDENUM STEELS, COATING
HIGHLIGHT DEVELOPMENTS IN PLATING
67-02 M12-60904
MOLYBDENUM STEELS, CORROSION
CORROSION RESISTANCE OF SOME METALS IN MOLTEN ALUMINUM 67-05 M18-69836
CORROSION RESISTANCE OF CERTAIN METALLIC MATERIALS IN MOLTEN ALUMINUM 67-12 M18-82269
MOLYBDENUM STEELS, DIE CASTING DIES
INNOVATIONS IN DIE CASTING DIE STEELS
67-03 M20-65402
MOLYBDENUM STEELS, MECHANICAL PROPERTIES
RADIOGRAPHICALLY DETERMINED RESIDUAL STRESSES IN STEEL SPECIMENS SUBJECT TO PLASTIC DEFORMATION IN TENSION 67-01 M17-57384
SUPERHEATING PIPES TESTED AFTER OPERATION FOR 100,000 HR 67-04 M17-67131
RATIO OF THE CRACK FORMATION AND PROPAGATION ENERGIES DURING IMPACT TESTS 67-10 M17-79742
THE EFFECTS OF AUSFORMING ON THE MECHANICAL PROPERTIES OF 0.2 PER CENT C-3 PER CENT NI-2 PER CENT MO STEEL 67-11 M17-80947
MOLYBDENUM STEELS, MICROSTRUCTURE
THE CRYSTALLOGRAPHIC ORIENTATION RELATIONSHIP BETWEEN MO2C AND FERRITE MATRIX
67-02 M13-60277
ON THE MECHANISM OF THE FORMATION OF ME23C6 CARBIDE DURING TEMPERING OF MOLYBDENUM STEEL
67-02 M14-59942
IN-SITU TRANSFORMATION OF FE3C TO MO2C IN IRON-MOLYBDENUM-CARBON ALLOYS 67-04 M14-67022
FORMATION MECHANISM OF THE CARBIDE ME23C6 ON THE TEMPERING OF MOLYBDENUM STEEL
67-07 M14-72597
ORIENTATION RELATIONSHIP AND COHERENCY BETWEEN MO2C AND THE FERRITE MATRIX 67-11 M13-81144
MOLYBDENUM STEELS, PHYSICAL PROPERTIES
THE EFFECT OF MOLYBDENUM ON THE HEAT RESISTANCE OF CR-MOV STEELS WITH A LOW CARBON CONTENT
67-04 M15-66020
MOMENTS
SEE MAGNETIC MOMENT
MONEL
MONEL ALLOY K-500 --CORROSION RESISTANT ALLOY--
67-02 M01-59491
MONEL, CASTING

MONEL
INGOT CASTING AND THE PRODUCTION OF SEMIFINISHED PRODUCTS FROM MONEL METAL NMZHMTS28-25, -1.5 67-05 M03-68234
MONEL, POWDER METALLURGY
MONEL METAL-BASE POWDER COMPOSITE COMPACTING MATERIAL 67-08 M09-74913
MONOCHROMATORS
SEE SPECTROMETERS
MONOCLINIC LATTICE
THE STRUCTURE AND OCCURRENCE OF THE METASTABLE MONOCLINIC PHASE, ALPHA DOUBLE PRIME B IN URANIUM-MOLYBDENUM ALLOYS 67-03 M13-65850
CRYSTAL MODIFICATIONS OF BINARY SYSTEMS CONTAINING MOLTEN ZIRCONIA AND SPRAYED BY ARC-PLASMA 67-07 M14-73301
EQUILIBRIUM DIAGRAM AT 60 C. OF THE FE2O3-AS2O5-H2O SYSTEM AND A RADIOCRYSTALLOGRAPHIC STUDY OF THE ARSENATES, FE2O3-3AS2O5-8H2O AND AL2O3-3AS2O5-8H2O 67-12 M13-82512
MONOCRYSTALS
SEE SINGLE CRYSTALS
MONOTECTIC REACTIONS
THE URANIUM-DIOXIDE SYSTEM OF URANIUM ABOVE 1130 C 67-02 M13-62294
MOSSBAUER
RELAXATION PHENOMENA IN MOSSBAUER SPECTRA OF 170YB IN INTERMETALLIC COMPOUNDS OF YTTERBIUM 67-04 M16-66182
MOSSBAUER EFFECT
A STUDY OF PRECIPITATION IN STAINLESS AND MARAGING STEELS USING THE MOSSBAUER EFFECT 67-01 M14-58463
MEAN SQUARE DISPLACEMENT OF IRON IMPURITY ATOMS IN COPPER 67-01 M15-57967
MOSSBAUER EFFECT IN ALPHA-FE2O3 67-02 M15-61524
NUCLEAR ZEEMAN EFFECT OF 119SN DISSOLVED IN CHROMIUM 67-02 M16-60592
ELECTRONIC EXCHANGE AND THE MOSSBAUER EFFECT IN IRON-BASED INTERSTITIAL COMPOUNDS 67-03 M16-65718
MOSSBAUER EFFECT IN IRON CONTAINING THIRD SERIES TRANSITION ELEMENTS 67-03 M16-65745
MOSSBAUER STUDY ON FESN AND FE3SN 67-04 M15-68063
RELAXATION PHENOMENA IN MOSSBAUER SPECTRA OF 170YB IN INTERMETALLIC COMPOUNDS OF YTTERBIUM 67-04 M16-66182
MOSSBAUER EFFECT IN IRON-CARBON AND IRON-NITROGEN ALLOYS 67-04 M16-66536
MOSSBAUER EFFECT STUDY OF V2O3 67-04 M16-67476
FE57 MOSSBAUER EFFECT IN NICKEL HYDRIDE 67-05 M16-68278
EFFECT OF IMPURITIES ON ISOMER SHIFTS IN METALLIC TIN 67-05 M16-69023
MAGNETIC HYPERFINE STRUCTURE OF THE GD155 LEVELS IN METALLIC GADOLINIUM AND IN THE INTERMETALLIC COMPOUND GDAL2 67-05 M16-69028
NUCLEAR GAMMA RESONANCE IN HIGHLY DISPERSED TIN 67-05 M16-69030
MOSSBAUER MEASUREMENT OF HYPERFINE FIELD IN MARTENSITE 67-05 M16-69096
MOSSBAUER SPECTRA IN CRYSTALS CONTAINING DEFECTS 67-05 M16-69639
MOSSBAUER EFFECT IN IRON-CARBON MARTENSITE STRUCTURE AND ITS CHANGES AFTER TEMPERING 67-05 M16-69766
NUCLEAR MAGNETIC RESONANCE AND MOSSBAUER EFFECT STUDY OF SN119 IN RARE EARTH-TIN INTERMETALLIC COMPOUNDS 67-05 M16-69788
A METHOD FOR DETERMINING SHORT RANGE ORDER IN NICKEL-IRON ALLOYS WITH THE AID OF THE MOSSBAUER EFFECT 67-06 M14-71725
MOSSBAUER EFFECT IN THE INTERMETALLIC COMPOUNDS CO1.4SN AND NI1.4SN 67-06 M15-71368
TEMPERATURE-DEPENDENT ISOMER SHIFT AND ANHARMONIC BINDING OF SN119 IN NB3SN 67-06 M16-71173
MOSSBAUER EFFECT OF DIVALENT FE57 IN NIO AND MNO 67-06 M16-71788
A MOSSBAUER EFFECT INVESTIGATION OF THE CRYSTALLINE ELECTRIC FIELD IN THULIUM METAL 67-06 M16-71988
MOSSBAUER IRON SPECTRA IN THE EPSILON-PHASE HOMOGENEITY REGION OF THE IRON-SILICON SYSTEM 67-06 M16-72373
MOSSBAUER STUDIES OF ORDERED AND COLD-WORKED FE-AL ALLOYS CONTAINING 30 TO 50 AT. PER CENT ALUMINUM 67-07 M15-72647
HYPERFINE INTERACTIONS AT FE57 NUCLEI IN INTERMETALLIC COMPOUNDS OF THE FE-MN SYSTEM WITH THE BETA-MANGANESE STRUCTURE 67-07 M16-73529
EXPERIMENTAL METHODS OF MATERIALS RESEARCH. V. 1. ADVANCES IN MATERIALS RESEARCH 67-08 M01-74690
MOSSBAUER EFFECT IN IRON-ALUMINIUM ALLOYS. PT. 1 67-08 M15-75226
MOSSBAUER EFFECT IN IRON-ALUMINIUM ALLOYS PT. 2 67-08 M15-75227
ELECTRONIC PROCESS IN GAMMA IRON TELLURIDE 67-08 M15-75919
MOSSBAUER EFFECT STUDY OF FERROMAGNETISM AND FERROMAGNETIC RELAXATION IN ERAL2 67-08 M16-74471
APPLICATIONS OF THE MOSSBAUER EFFECT TO PROBLEMS IN MATERIALS SCIENCE 67-08 M16-74696
HYPERFINE FIELDS AT SN119 IN DILUTE ALLOYS 67-08 M16-75828
ANALYSIS OF THE MAGNETIC HYPERFINE STRUCTURE OBSERVED USING THE MOSSBAUER EFFECT IN TM METAL 67-08 M16-75835
EVIDENCE FOR INTERSTITIAL COBALT IN INDIUM BY MOSSBAUER SPECTROSCOPY 67-09 M14-77163
MOSSBAUER EFFECT IN SURFACE STUDIES--FE57 ON W AND ON AG 67-09 M16-77684
MOSSBAUER STUDY OF INTERMETALLIC FE5GE3 SYSTEM 67-10 M15-78442
A MOSSBAUER STUDY OF HYPERFINE INTERACTIONS IN DYSPROSIUM METAL 67-10 M15-78665
MOSSBAUER FRACTIONS AND SPECIFIC HEAT OF TELLURIUM 67-10 M15-78718
OBSERVATION OF CRYSTAL FIELDS BY MEANS OF THE MOSSBAUER EFFECT 67-10 M16-78305
TEMPERATURE DEPENDENCE OF THE ISOMER SHIFT AND THE HYPERFINE FIELD NEAR THE CURIE POINT IN IRON 67-10 M16-79281
MAGNETIC SUSCEPTIBILITY AND MOSSBAUER EFFECT MEASUREMENTS IN FEIN2S4 67-10 M16-79362
THE PHASE DIAGRAM AND PHASE TRANSITION OF THE V2O3-V2O5 SYSTEM 67-11 M13-81688
EFFECTIVE FIELDS IN DILUTE ALLOYS OF MN IN CU AND AU 67-11 M15-80188
HYPERFINE MAGNETIC FIELDS AT COBALT AND TIN NUCLEI IN DILUTE ALLOYS 67-11 M15-80190
EXPERIMENTAL INVESTIGATION ON EXCHANGE INTERACTION IN PLATINUM-IRON ALLOYS 67-11 M15-80661
INTERNAL MAGNETIC FIELDS AT SN119 NUCLEI IN HEUSLER ALLOYS 67-11 M15-80783
ANHYSTERETIC MAGNETIZATION PROCESS AND MOSSBAUER EFFECT IN IRON POWDER 67-11 M15-80936
PHASE SEPARATION IN THE CU-NI-FE SYSTEM., MOSSBAUER EFFECT EVIDENCE AGAINST DECOMPOSITION BY THE SPINODAL MECHANISM 67-12 M14-82218
ANTIFERROMAGNETISM OF GAMMA-FEMN ALLOYS. PT. 2. NEUTRON DIFFRACTION AND MOSSBAUER EFFECT STUDIES 67-12 M15-81762
STUDIES OF MAGNETIC HARDNESS IN VICALLOY USING THE MOSSBAUER EFFECT 67-12 M15-83265
MOSSBAUER STUDY OF THE FE-MN CARBIDES --FE1-XMNX--3C AND --FE1.1MN3.9--C2 67-12 M16-82005
MOSSBAUER EFFECT, PRESSURE EFFECTS
EFFECT OF PRESSURE ON THE MOSSBAUER EFFECT OF FE57 IN NICKEL METAL 67-09 M16-77441
MOSSBAUER EFFECT, RADIATION EFFECTS
INTERPRETATION OF ISOMER SHIFTS OF GAMMA RADIATION OF IMPURITY NUCLEI SN119 AND AU197 IN METALLIC SOLID SOLUTIONS 67-06 M16-71928
MOTOR ARMATURES, MAGNETIC PROPERTIES
CASTING ELECTRICAL STEEL AND RESULTING EFFECT ON ITS MAGNETIC PROPERTIES 67-04 M06-66336
MOTOR ROTORS
SEE ALSO MOTOR ARMATURES
MOTOR ROTORS, MECHANICAL PROPERTIES
FAILURE OF A FAN ROTOR 67-08 M17-75534
MOTOR TRUCKS
USE OF HIGH STRENGTH STEEL IN THE TRAILER INDUSTRY 67-05 M20-69089
PHOSPHATING SYSTEM RUSTPROOFS TRUCK BODIES 67-06 M12-70723
MOTOR TRUCKS, WELDING
WELDING AND THE COMMERCIAL VEHICLE BODY REPAIRER 67-06 M11-70858
MOTOR VEHICLE ENGINES
SEE PASSENGER CAR ENGINES
MOTOR VEHICLES
SEE ALSO MOTOR TRUCKS
MOTOR VEHICLES, WELDING
WELDING AND THE COMMERCIAL VEHICLE BODY REPAIRER 67-06 M11-70858

MOTTLED IRON, CASTING
WILLIAM LEE AND SONS --MALLEABLE--, LTD., COMPLETES PHASE 1 EXPANSION 67-06 M06-72024
MOTTLED IRON, MECHANICAL PROPERTIES
PROPERTIES OF MOTTLED IRON AT ELEVATED TEMPERATURES 67-12 M17-81980
MUFFLERS, MATERIALS
CHROMIZED STEEL--CORROSION RESISTANCE AT LESS COST THAN STAINLESS STEEL 67-05 M12-69496
MUFFLING
SEE MUFFLERS
MULTIAXIAL STRESS
SEE AXIAL STRESS
MULTIPURPOSE REACTORS
SEE NUCLEAR REACTORS
MULTISTAGE MELTING
METALLURGICAL PROCESSES IN MELTING STEELS IN MULTICHAMBER ELECTRON BEAM FURNACES 67-11 M04-80203
DEOXIDATION STUDIES ON ARMCO IRON IN A MULTICHAMBER ELECTRON BEAM FURNACE 67-11 M04-80204
THE HARDENING BEHAVIOR OF VACUUM MELTED STEELS 67-11 M17-80214
METALLURGICAL RECULIARITIES IN THE REMELTING OF HIGH-SPEED STEEL S 6-5-2 IN THE MULTIPLE-CHAMBERED ELECTRON BEAM FURNACE, EMO 200 67-11 M17-80220
MUSCOVITE
SEE MICA

N CONDUCTIVITY
SEE ELECTRON CONDUCTIVITY
NAILS
RIVETING AND OTHER MECHANICAL FASTENING 67-08 M20-74848
NAILS, MECHANICAL PROPERTIES
THE TESTING OF IMPROVED NAILS 67-02 M17-60626
NATURAL AGING /METALLURGICAL/
STRUCTURAL INVESTIGATION OF AGING ATSM AND V92 ALLOYS 67-02 M14-62085
PROPERTIES OF VAD-23 ALLOYS 67-04 M17-67149
NATURAL AGING KINETICS OF LEAD-CADMIUM ALLOYS 67-06 M14-71124
SINGULARITIES OF THE AGING OF ALLOYS OF THE AL-ZN-MG SYSTEM 67-08 M17-76122
THE AGING MECHANISM IN AL-CU-MG ALLOY 67-10 M10-79220
REVERSION AND AGING PROCESSES IN AL-ZN-MG ALLOYS 67-11 M11-80392
NATURAL FREQUENCY
SEE RESONANT FREQUENCY
NATURAL GAS
THE REDUCING FUNCTION OF GASES IN A BLAST FURNACE OPERATING ON FLUXED SINTER AND NATURAL GAS 67-04 M04-67602
OPTIMUM CONSUMPTION OF NATURAL GAS IN BLAST FURNACE MELTING 67-04 M04-67603
COMBUSTION PROCESS IN A BLAST FURNACE DURING NATURAL GAS BLOWING 67-04 M04-67604
GASEOUS REDUCTION IN THE BLAST-FURNACE STACK DURING THE USE OF NATURAL GAS 67-04 M04-67681
NATURAL GAS IN THE RUSSIAN BLAST FURNACE 67-07 M04-72792
USE OF REFORMED GAS IN BLAST FURNACE MELTING 67-11 M04-81645
ON THE EFFECTIVENESS OF USING NATURAL GAS TO FUEL OPENHEARTH FURNACES 67-12 M04-81726
NATURAL GAS, FUELS
USING THE REDUCING CAPACITY OF NATURAL GAS IN THE PRODUCTION OF BASIC PHOSPHORUS IRON 67-05 M04-68318
UTILIZATION OF REDUCING CAPACITY OF NATURAL GAS IN PRODUCTION OF STEELMAKING PHOSPHORIC PIG IRON 67-07 M04-72846
NATURAL GAS, HEATING
BLAST FURNACE THERMAL PATTERNS ANALYZED AT THE MAGNITOGORSK GROUP DURING NATURAL GAS TRIALS 67-10 M04-80079
NAVAL VESSELS
SEE WARSHIPS
NECKING
THE COLD NECKING OF 3 TO 9 MM THICK SHEETS AND TUBES --2-- 67-02 M08-59807
STUDY OF STEEL THERMOMECHANICALLY STRENGTHENED DURING TENSION USING HIGH SPEED FILM 67-03 M17-65102
ESTABLISHING THE RELATIONSHIP BETWEEN THE TRUE STRAIN AND THE NECKING OF TENSILE TEST SPECIMENS 67-06 M17-70262
THE CONDITION FOR THE APPEARANCE OF NECKING UNDER TENSILE TESTS 67-06 M17-71543
INVESTIGATION OF THERMOMECHANICALLY HARDENED STEEL WORKING IN TENSION BY MEANS OF HIGH-SPEED FILMING 67-07 M17-72790
NECKING, STRESS EFFECTS
THE BRITTLENESS OF METALLIC MATERIALS UNDER TENSION STRESSES 67-07 M17-73074
NEEL POINT
MAGNETIC PROPERTIES OF SOME ALLOYS OF THORIUM WITH HOLMIUM AND ERBIUM 67-07 M15-73586
EFFECT OF PRESSURE ON MAGNETIC TRANSFORMATIONS IN MANGANESE ARSENIDE 67-07 M15-73706
MAGNETIC STRUCTURE OF DYAG 67-09 M15-76660
ATOMIC AND MAGNETIC ORDER IN MN2PD3 67-09 M15-77673
SUBLATTICE MAGNETIZATION IN FEF3 NEAR THE NEEL POINT 67-10 M15-79364
EXPERIMENTAL TEST OF RIGID BAND MODELS FOR CR BY MEANS OF CR-V-MN TERNARY DILUTE ALLOYS 67-12 M16-81760
EFFECTS OF RARE EARTH METALS ON THE NEEL TEMPERATURE AND DUCTILITY OF RECRYSTALLIZED CHROMIUM 67-12 M17-83463
NEEL POINT, ALLOYING EFFECTS
ANTIFERROMAGNETISM IN DILUTE CR-FE ALLOYS 67-08 M15-76172
NEEL POINT, PRESSURE EFFECTS
PRESSURE DEPENDENCE OF THE MAGNETIC TRANSITION TEMPERATURES IN TERBIUM FROM RESISTANCE MEASUREMENTS 67-10 M15-78736
MAGNETIC TRANSITIONS IN ALLOYS OF GADOLINIUM AND DYSPROSIUM 67-10 M15-78738
NEODYMIUM, ALLOYING ADDITIVE
THE EFFECT OF CERTAIN RARE-EARTH SOLUTES UPON THE FCC-BCC TRANSFORMATION TEMPERATURE OF THORIUM 67-01 M14-58532
INFLUENCE OF ALLOYING ON DAMPING OF ULTRASOUND IN MAGNESIUM ALLOYS 67-10 M17-79144
NEODYMIUM, BINARY SYSTEMS
PHASE DIAGRAMS OF THE TH-PR AND TH-ND SYSTEMS 67-06 M14-69991
PHASE DIAGRAM OF THE NEODYMIUM-TELLURIDE SYSTEM, AND THE PROPERTIES OF THE PHASES 67-09 M13-76941
NEODYMIUM, EXTRACTION
ELECTROWINNING HIGH-PURITY NEODYMIUM, PRASEODYMIUM, AND DIDYMIUM METALS FROM THEIR OXIDES 67-07 M03-73196
NEODYMIUM, INTERMETALLICS
THE CRYSTAL STRUCTURE OF CEFE7, PRFE7, NDFE7 AND SMFE7 67-02 M13-60888
MAGNETIC PROPERTIES OF DYAL2 AND NDAL2 67-02 M15-61837
NEODYMIUM, MECHANICAL PROPERTIES
TEMPERATURE DEPENDENCE OF THE HARDNESS OF LANTHANUM AND NEODYMIUM IN THE RANGE 77-293 K 67-02 M17-61939
NEODYMIUM, TERNARY SYSTEMS
DETERMINATION OF THE COSOLUBILITY LIMIT OF NEODYMIUM AND NICKEL IN SOLID MAGNESIUM 67-09 M13-76842
CONSTITUTION DIAGRAM OF THE MG-ND-NI SYSTEM IN THE MAGNESIUM-RICH RANGE 67-12 M13-82121
NEODYMIUM, THERMAL PROPERTIES
SPECIFIC HEAT OF LANTHANUM, PRASEODYMIUM, AND SAMARIUM METALS BETWEEN 3 AND 25 K 67-11 M15-81386
NEODYMIUM, X RAY ANALYSIS
THE EFFECT OF COLD WORK --FILING-- ON THE X-RAY DIFFRACTION PATTERNS OF SOME RARE-EARTH MEATLS 67-04 M13-66163
NEODYMIUM BASE ALLOYS, MAGNETIC PROPERTIES
MAGNETIC PROPERTIES OF IRON-NEODYMIUM ALLOYS 67-02 M15-61678
NEODYMIUM COMPOUNDS, ELECTRICAL PROPERTIES
PHYSICAL PROPERTIES OF SOME RARE-EARTH METAL DICARBIDES 67-04 M15-67099
NEODYMIUM COMPOUNDS, MAGNETIC PROPERTIES
MAGNETIC PROPERTIES OF CE, PR AND ND MONOCHALCOGENIDES AT 4.2 TO 1300 K 67-01 M16-57956
INVESTIGATION OF THE MAGNETIC PROPERTIES OF NEODYMIUM MONOCHALCOGENIDES AT 4.2-150 K 67-07 M15-73704
NEODYMIUM COMPOUNDS, THERMAL PROPERTIES
SPECIFIC HEAT OF NDS, LASE, AND LATE 67-11 M15-81046

NEON, CRYOGENICS
A FIELD-ION MICROSCOPE OPERATING AT LIQUID NEON TEMPERATURE 67-01 M13-58690
NEON, DIFFUSION
NEON DIFFUSION IN SILVER 67-10 M14-79597
NEPTUNIUM, ALLOYING ADDITIVE
THE KINETICS OF THE ALPHA TO BETA TO ALPHA TRANSFORMATIONS IN SOME DILUTE PLUTONIUM ALLOYS 67-09 M14-78264
NEPTUNIUM BASE ALLOYS, MELTING
MELTING AND CASTING 67-11 M03-80476
NEPTUNIUM COMPOUNDS, MAGNETIC PROPERTIES
COMPOUNDS AND OXIDES. PT. 3. THE MAGNETIC SUSCEPTIBILITY OF NEPTUNIUM OXIDE AND CARBIDE BETWEEN 4.2 AND 350 K 67-07 M15-73599
NERNST EFFECT
SEE THERMOELECTRIC POWER GENERATION
THERMOMAGNETIC EFFECTS
NERNST ETTINGSHAUSEN EFFECTS
SEE THERMOMAGNETIC EFFECTS
NEUTRAL ATMOSPHERES
SEE INERT ATMOSPHERES
NEUTRON ACTIVATION ANALYSIS
INFLUENCE OF MANUFACTURING PARAMETERS ON THE QUALITY OF FUEL ELEMENTS CONTAINING PLUTONIUM 67-01 M05-58542
ACTIVATION OF GOLD SPHERES AND FOILS IN NONISOTROPIC NEUTRON INCIDENCE 67-01 M16-58587
ACTIVATION ANALYSIS FOR NONDESTRUCTIVE LOCALIZATION OF IMPURITIES IN FOILS 67-01 M19-58588
THEORETICAL AND EXPERIMENTAL DETERMINATIONS OF NEUTRON ENERGY DEPOSITION IN SILICON 67-03 M16-65740
APPLICATIONS OF NEUTRON ACTIVATION TO ANALYSIS OF BERYLLIUM 67-03 M19-65253
NONDESTRUCTIVE TEST DEVELOPMENT FOR ADVANCED AIRPLANES 67-03 M19-65317
EVALUATING THE SENSITIVITY AND ACCURACY OF THE DETERMINATION OF THE TOTAL OXYGEN IN METALS BY THE NEUTRON ACTIVATION METHOD 67-04 M19-67089
INVESTIGATION OF THE POSSIBILITIES OF INDUSTRIAL USE OF ACTIVATION ANALYSIS TO DETERMINE OXYGEN AND POSSIBLY NITROGEN AND HYDROGEN IN STEEL. PT. 1 67-04 M19-67216
INVESTIGATION OF THE POSSIBILITIES OF INDUSTRIAL USE OF ACTIVATION ANALYSIS TO DETERMINE OXYGEN AND POSSIBLY NITROGEN AND HYDROGEN IN STEELS. PT. 2 67-04 M19-67217
THE DETERMINATION OF OXYGEN IN METALS, PARTICULARLY IN STEEL, BY ACTIVATION ANALYSIS WITH 14.5 MEV NEUTRONS 67-04 M19-67251
INVESTIGATION OF THE POSSIBILITIES OF INDUSTRIAL USE OF ACTIVATION ANALYSIS TO DETERMINE OXYGEN AND POSSIBLY NITROGEN AND HYDROGEN IN STEELS. PT. 3 67-04 M19-67257
ACTIVATION ANALYSIS OF OXYGEN IN METALLIC BERYLLIUM BY FAST NEUTRONS 67-04 M19-67600
DETERMINATION OF ARSENIC IN SB-FE MATRICES BY ACTIVATION ANALYSIS 67-05 M19-68812
TOWARD A METHOD OF DETERMINING CERTAIN IMPURITIES IN STEEL BY NEUTRON-ACTIVATION ANALYSIS 67-05 M19-69610
DETERMINING THE DYSPROSIUM IN SPECIMENS OF YTTRIUM OXIDE AND FERRITE GARNET BY RADIOACTIVATION 67-06 M19-70321
THE PROBLEMS OF HIGH OXYGEN CONTENT IN LIQUID STEEL AND POSSIBLE METHODS OF CONTROL 67-07 M19-73100
A COMPARISON OF METHODS FOR DETERMINING GOLD IN ORES 67-09 M19-77027
ESTIMATE OF THE SENSITIVITY AND ACCURACY OF DETERMINING THE TOTAL AMOUNT OF OXYGEN IN METALS BY THE NEUTRON ACTIVATION METHOD 67-09 M19-78069
CONCENTRATION OF THE LITHIUM ISOTOPE BY MEANS OF THE HAEFFNER EFFECT 67-12 M16-82146
THE DETERMINATION OF THE B CONTENT OF LOW-B STEELS BY MEASURING THE DEPRESSION OF THE FLUX OF THERMAL NEUTRONS 67-12 M19-83009
NEUTRON CAPTURE
SEE CAPTURE /NUCLEAR/
NEUTRON COUNTERS
SEE NEUTRONS
RADIATION COUNTERS
NEUTRON DIFFRACTION
NEUTRON DIFFRACTION ANALYSIS OF A POLYCRYSTALLINE NICHROME ALLOY 67-02 M13-59927
HIGH TEMPERATURE NEUTRON DIFFRACTION FURNACE 67-02 M19-60697
INTERPOLATION SCHEME FOR BAND STRUCTURE OF NOBLE AND TRANSITION METALS--FERROMAGNETISM AND NEUTRON DIFFRACTION IN NI 67-03 M16-65027
A MULTIPURPOSE NEUTRON DIFFRACTION APPARATUS 67-04 M13-67224
NEUTRON DIFFRACTION OF CR2NIS4 67-04 M13-67731
NEUTRON-DIFFRACTION STUDY OF DILUTE CHROMIUM ALLOYS WITH IRON 67-04 M16-68142
NEUTRON DIFFRACTION STUDY OF ORDERED NI-MN ALLOYS 67-05 M14-68243
PAIR-CORRELATION FUNCTION IN DISORDERED BETA-BRASS AS STUDIED BY NEUTRON DIFFRACTION 67-05 M14-69806
OPTICAL ABSORPTION OF ALUMINIUM AND SOME ALUMINIUM-MAGNESIUM ALLOYS 67-06 M16-70572
NEUTRON DIFFRACTION STUDY OF POLYCRYSTALLINE NICHROME 67-07 M13-72582
NEUTRON-DIFFRACTION STUDY OF CR AND CR ALLOYS 67-07 M15-73542
MAGNETIC PROPERTIES OF PRAL2 67-07 M15-73588
NEUTRON DIFFRACTION STUDY OF FE7SE8 67-07 M15-73989
NEUTRON DIFFRACTION DETERMINATION OF THE STRUCTURE OF TI-FE AND TI-CO ALLOYS 67-08 M13-74646
NEUTRON DIFFRACTION 67-08 M13-74692
NEUTRON DIFFRACTION STUDIES ON TITANIUM-CARBON AND ZIRCONIUM-CARBON ALLOYS 67-08 M14-75249
NEUTRON DIFFRACTION STUDY OF FESN 67-08 M15-76170
THE CRYSTAL STRUCTURE OF BISMUTH-2 AT 26 KBAR 67-09 M13-77958
MAGNETIC STRUCTURE OF DYAG 67-09 M15-76660
NEUTRON DIFFRACTION AND ELECTRICAL TRANSPORT PROPERTIES OF CUCR2SE4 67-09 M16-77013
NEUTRON DIFFRACTION ANALYSIS OF FE-CO ATOMIC FERROMAGNETIC SUPERLATTICES 67-10 M13-79916
STRUCTURE INVESTIGATIONS OF TWO URANIUM NITRIDES U2N3 PLUS X 67-11 M13-80624
NEUTRON-DIFFRACTION STUDY OF ANTIFERROMAGNETISM IN USB2 AND BUI2 67-11 M15-81515
ANTIFERROMAGNETISM OF GAMMA-FEMN ALLOYS. PT. 2. NEUTRON DIFFRACTION AND MOSSBAUER EFFECT STUDIES 67-12 M15-81762
NEUTRON-DIFFRACTION STUDY OF ANTIFERROMAGNETISM IN USB2 AND UBI2 67-12 M15-82006
EXPERIMENTAL TEST OF RIGID BAND MODELS FOR CR BY MEANS OF CR-V-MN TERNARY DILUTE ALLOYS 67-12 M16-81760
NEUTRON IRRADIATION
SEE IRRADIATION
NEUTRONS
NEUTRON RADIOGRAPHY
NONDESTRUCTIVE EXAMINATION OF RADIOACTIVE MATERIAL USING NEUTRON RADIOGRAPHY 67-03 M19-65015
UNDERWATER NEUTRON RADIOGRAPHY WITH CONICAL COLLIMATOR 67-04 M19-66718
LIKE JUNE, RADIOGRAPHY IS BUSTING OUT ALL OVER 67-06 M19-70457
MULTICOMPONENT SUPERLATTICES OF VARIABLE COMPOSITION IN NI3FE AND NI3MN-BASE MAGNETIC ALLOYS 67-10 M13-79915
NEUTRON SCATTERING
SEE IONIZING RADIATION SCATTERING
NEUTRONS
STRUCTURAL TRANSFORMATION IN A NICKEL-CHROMIUM ALLOY --80 NI/20 CR-- UNDER IRRADIATION. PT. 2 67-03 M17-65856
EMBRITTLEMENT OF NEUTRON-IRRADIATED 20CR-25NI-NB AUSTENITIC STEEL AT 650 C 67-04 M17-66991
HARDENING IN MILD STEEL AT HIGHER IRRADIATION TEMPERATURES 67-04 M17-67414
ADIABATIC CALORIMETER TO MEASURE THE STORED ENERGY OF ALUMINUM AFTER NEUTRON IRRADIATION AT 4.6 K 67-05 M15-68337
INTERSTITIAL DISLOCATION LOOPS IN NEUTRON IRRADIATED COPPER 67-05 M16-68298
DIFFUSION IN DOPED UO2 67-05 M16-68348
NEUTRONS, IRRADIATION
THE INFLUENCE OF IRRADIATION TEMPERATURE ON THE DAMAGE STRUCTURE IN NEUTRON-IRRADIATED MOLYBDENUM 67-05 M16-68690
NICKEL, ALLOYING ADDITIVE
EXCHANGE ANISOTROPY OF FE65--NI1-XMNX--35 ALLOYS 67-12 M15-81764
NICKEL, ACOUSTIC PROPERTIES
EFFECTS OF STRESS ON THE ULTRASONIC ATTENUATION IN

A NICKEL SINGLE CRYSTAL 67-06 M17-71289
NICKEL, ACTIVITY /CHEMICAL/
THE EFFECT OF SULFUR ON THE ACTIVITY OF OXYGEN IN IRON, COBALT AND NICKEL MELTS AT 1600 C 67-08 M14-75659
INTERACTIONS OF LONG RANGE AND PARAMAGNETIC IONS 67-10 M16-79370
NICKEL, ADSORPTION
THE ADSORPTION KINETICS OF HYDROGEN IN SUSPENSIONS OF METALLIC CATALYSTS. PT. 2 67-08 M14-75641
THERMALLY ORDERED OXYGEN ON A NICKEL SURFACE 67-10 M14-79572
NICKEL, ALLOYING ADDITIVE
AN X-RAY STUDY OF THE EFFECTS OF NICKEL AND MANGANESE ON THE OCCURRENCE OF STACKING FAULTS IN COPPER-BASE ALLOYS 67-02 M13-60644
EFFECTS OF NICKEL ON THE FORMATION OF SIGMA PHASE AND SOME CHANGES OF PROPERTIES IN 25 PER CENT CHROMIUM STEELS 67-02 M14-59978
EFFECT OF ALLOYING ELEMENTS ON RECRYSTALLIZATION OF MG ALLOYS 67-02 M14-62233
INFLUENCE OF NICKEL ON MECHANICAL PROPERTIES AND CRYOGENIC PROPERTIES OF LOW-CARBON STEEL 67-02 M17-61976
INFLUENCE OF CHEMICAL COMPOSITION ON THE ANISOTROPY OF THE IMPACT STRENGTH OF SOME CASE-HARDENING STEELS 67-02 M17-62065
THE EFFECT OF NICKEL, SILICON AND NIOBIUM ON THE OXIDATION OF TITANIUM AT HIGH TEMPERATURES 67-02 M18-59785
MARTENSITE IN TERNARY CU-ZN-BASED BETA-PHASE ALLOYS 67-03 M14-65079
THE SOLUBILITY OF NITROGEN IN MULTICOMPONENT LIQUID IRON ALLOYS 67-03 M14-65081
EFFECT OF NICKEL ON CARBON AND CHROMIUM BEHAVIOR IN THE PRODUCTION OF HIGH-CHROMIUM AND HIGH-NICKEL STAINLESS STEELS USING OXYGEN 67-04 M04-66026
STUDY OF THE SULFIDE STRESS-CORROSION CRACKING OF HIGH STRENGTH STEEL. PT. 1. THE CORROSION PRODUCTS IN HYDROGEN SULFIDE AQUEOUS SOLUTION 67-04 M18-67422
EXTENSION TO THE TERNARY ALLOY AU0.050-CU0.45-NI0.05 OF THE AU-CU TYPE. RELATIONS BETWEEN THERMODYNAMIC FUNCTIONS AND DEGREE OF ORDER ALREADY ESTABLISHED BY AUCU3 67-05 M15-68909
EFFECT OF NICKEL ADDITIONS ON THE PHASE COMPOSITION OF IRON-BERYLLIUM ALLOYS 67-06 M14-69984
SOME PROPERTIES OF P/M NICKEL ALLOY STEEL 67-07 M09-73958
MECHANISM OF THE INFLUENCE OF DIFFERENT ELEMENTS ON THE GRAPHITIZATION OF CAST IRON 67-08 M14-74545
STRAIN GAGE FACTOR AND ELECTRICAL AND MAGNETIC PROPERTIES IN AS-COLDWORKED STATE OF IRON-NICKEL-CHROMIUM ALLOYS CONTAINING 35 WT PER CENT NICKEL AND 0-20 WT PER CENT CHROMIUM 67-08 M15-74433
NOTE CONVERNING 13 PER CENT CHROME STEELS 67-08 M17-76234
EFFECT OF NI ON LOW NI-CR CAST IRON 67-09 M01-77248
THE CRYSTALLOGRAPHIC CHARACTERISTICS OF THE AUSTENITE, RETRANSFORMED IN THE MARTENSITE WITH FAST HEATING, IN A FE-NI ALLOY WITH 32.5 PER CENT NICKEL 67-09 M13-77849
PREPARATION AND STUDIES OF SOME PROPERTIES OF PLUTONIUM MONOCARBIDES 67-09 M15-76344
EFFECT OF NICKEL ON THE MECHAICAL PROPERTIES AND COLD BRITTLENESS THRESHOLD OF LOW-CARBON STEEL 67-10 M17-78833
MARTENSITE-TO-FCC REVERSE TRANSFORMATION IN AN FE-NI ALLOY 67-11 M14-81341
THE EFFECT OF NICKEL ON THE LOW-TEMPERATURE BRITTLENESS OF IRON AND STEELS 67-11 M17-80948
ACTIVATION SINTERING OF TUNGSTEN WITH ADDITIONS OF NICKEL 67-12 M09-83553
STRENGTHENING OF ANNEALED CUPRONICKELS BY CHROMIUM 67-12 M10-83057
EFFECT OF NICKEL IN AUSTENITIC WELDS ON THE MIGRATION OF CARBON TO THE WELDED JOINTS OF DISSIMILAR STEELS 67-12 M11-81908
GROWTH RATE OF BAINITE FROM LOW-CARBON IRON-NICKEL-CARBON AUSTENITE 67-12 M14-82715
OBSERVATIONS OF MARTENSITE IN TERNARY CU-ZN BASED BETA-PHASE ALLOYS 67-12 M14-82980
A CORRELATION OF THERMODYNAMIC VARIABLES FOR IRON-RICH IRON-NICKEL-CARBON ALLOYS 67-12 M15-82959
THE EFFECT OF COBALT, NICKEL AND COPPER ON THE STRUCTURE AND THE MECHANICAL PROPERTIES OF SPHEROIDAL GRAPHITE CAST IRON 67-12 M17-82919
ELASTIC AND FATIGUE PROPERTIES OF VACUUM REMELTED VERSES AIR-MELTED NI-SPAN-C ALLOY 902 FOR BOURDON TUBES 67-12 M17-83251
INFLUENCE OF NICKEL ON THE RESISTANCE TO DEALUMINIZATION OF CU-AL ALLOYS 67-12 M18-83343
NICKEL, ALLOYING ELEMENTS
DISTRIBUTION OF NICKEL AND CHROMIUM IN VERY HARD ROLL IRON 67-09 M04-77373
NICKEL, ANALYZING
ELECTRON MICROBEAM PROBE ANALYSES OF NICKEL-CADMIUM BATTERY PLATES 67-05 M13-68776
NICKEL, ATOMIC PROPERTIES
COMMENTS ON PAPERS RESULTING FROM HUME-ROTHERYS NOTE-1965 67-06 M16-71970
STUDY OF THE CHANGE OF THE ELECTRONIC STRUCTURE OF NICKEL AND ITS ALLOYS WITH GA AND GE IN DEFORMATION BY THE POSITRON-ELECTRON ANNIHILATION METHOD 67-12 M16-82798
NICKEL, ATOMIC STRUCTURE
STRUCTURE OF COPPER AND NICKEL MELTS NEAR THE FUSION TEMPERATURE 67-06 M16-69973
STUDY OF THE CHANGE IN ELECTRON STRUCTURE OF NI AND ITS ALLOYS WITH GA AND GE DURING DEFORMATION BY THE METHOD OF ELECTRON-POSITRON ANNIHILATION 67-06 M16-71477
NICKEL, BAND THEORY
NUCLEAR MAGNETIC RELAXATION IN FERROMAGNETIC TRANSITION METALS 67-02 M16-59478
INTERPOLATION SCHEME FOR BAND STRUCTURE OF NOBLE AND TRANSITION METALS--FERROMAGNETISM AND NEUTRON DIFFRACTION IN NI 67-03 M16-65027
NICKEL, BENEFICIATION
AT WORLDS NONFERROUS PLANTS --OXYGEN SMELTING GETS MAJOR PUSH 67-01 M03-56573
EXTRACTIVE REFINING OF NICKEL SOLUTIONS BY EXTRACTING IRON AND COPPER 67-07 M03-73486
NICKEL, BINARY SYSTEMS
STATE OF ORDERING AND THE ELECTRICAL RESISTIVITY IN THE QUASIBINARY SECTION NI4MO-NI4-W 67-02 M13-61896
THE NATURE OF INTERACTION BETWEEN COMPONENTS IN THE GAMMA AND GAMMA PRIME PHASE OF THE NI-AL, NI-AL-CR, NI-AL-CO AND NI-AL-FE SYSTEMS 67-02 M14-58983
THE EQUILIBRIUM DIAGRAM OF THE SYSTEM NIOBIUM-NICKEL 67-03 M14-65125
STUDY OF PHASE DIAGRAMS IN BINARY SYSTEMS BASED ON ISOACTIVITIES 67-04 M13-67849
PROPERTIES OF THE FREE ENERGY ASSOCIATED WITH THE INTERDIFFUSION OF TWO SOLIDS 67-04 M15-66064
DISSOLUTION OF THE PHASES IN THE NICKEL-GOLD SYSTEM DURING ISOTHERMAL ANNEALING 67-05 M14-68588
OBLIQUE-INCIDENCE ANISOTROPY AND DOMAIN CONFIGURATION IN NI-CO FILMS 67-05 M15-69762
STUDY OF THE PHASE DIAGRAM OF THE NICKEL BORON SYSTEM 67-06 M13-70369
PHASE DIAGRAM OF THE NI-B SYSTEM 67-06 M13-71462
THICKNESS DEPENDENCE OF THE COMPOSITION IN ELECTROPLATED NI-FE CYLINDRICAL FILMS 67-07 M12-73594
MUTUAL DIFFUSION IN SOME BINARY SYSTEMS WHICH FORM CONTINUOUS SERIES OF SOLID SOLUTIONS 67-07 M14-73476
SOLID-STATE EQUILIBRIA IN THE IRON-NICKEL SYSTEM 67-07 M14-73567
MAGNETOELASTIC COEFFICIENT AND TEMPERATURE RELATIONSHIP IN THIN NI-FE FILMS 67-07 M15-73597
ELECTRON TRANSMISSION MICROSCOPY OF NIAL 67-08 M13-75219
THE ALPHA-GAMMA EQUILIBRIUM IN FE-MN, FE-MO, FE-NI, FE-SB, FE-SN AND FE-W SYSTEMS 67-08 M13-75813
DETERMINATION OF INTRINSIC DIFFUSION COEFFICIENTS BY MEASUREMENT OF THE KIRKENDALL EFFECT IN THE CU-NI SYSTEM 67-09 M14-78013
ON THE MARTENSITIC TRANSFORMATION IN TINI 67-11 M14-80104
DETERMINATION OF DIFFUSION COEFFICIENTS BY MEASURING THE KIRKENDALL EFFECT

NICKEL

67-11 M14-80623
THE MAGNETOCRYSTALLINE ANISOTROPY OF NI-CO FERRITES
67-11 M15-80615
PHASE DIAGRAM OF THE SYSTEM NICKEL-BORON
67-12 M13-82783
THERMAL DECOMPOSITION OF NICKEL CARBIDE --REACTIVITY OF NICKEL WITH CO IN THE PRESENCE OF FREE CARBON--
67-12 M14-82696
REACTION DIFFUSION AND KIRKENDALL-EFFECT IN THE NICKEL-ALUMINUM SYSTEM
67-12 M14-82757
SURFACE TENSION AND DENSITY OF LIQUID NI-GA ALLOYS AND THE WETTABILITY OF AL2O3 BY THEM
67-12 M15-82171
THERMODYNAMIC PROPERTIES OF SOLID MAGNESIUM-NICKEL ALLOYS
67-12 M15-82420

NICKEL, BONDING
EXPLOSION-BONDING PROCESS FOR METALS
67-05 M12-68479

NICKEL, BRAZING
LOW-VAPOR PRESSURE BRAZING ALLOYS FOR GRADUAL BRAZING IN TEMPERATURE RANGE FROM 450 TO 600 C
67-06 M11-71653
ON ORIENTED CRYSTALLISATION IN BRAZED SEAMS
67-12 M14-82417

NICKEL, CASTING
QUALITY OF NICKEL INGOTS PRODUCED BY SEMICONTINUOUS CASTING
67-02 M03-60570
EFFECTS OF CONTINUOUS CASTING CONDITIONS ON THE QUALITY OF PURE NICKEL AND PRODUCTS ROLLED THEREFROM. PT. 4. A STUDY OF THE CONTINUOUS CASTING OF STEEL
67-06 M03-72207

NICKEL, CHEMICAL ANALYSIS
POLAROGRAPHIC METHODS OF SIMULTANEOUS DETERMINATION OF TIN, NICKEL, LEAD AND ZINC IN BRONZE
67-01 M19-57495
ANALYSIS OF THE CONTAMINANTS IN NICKEL OF GRADED PURITY
67-06 M19-70401
DETERMINATION OF MINOR AND TRACE ELEMENTS IN NICKEL BY X-RAY SPECTROSCOPY
67-06 M19-70863
SEPARATION OF TRACES OF ZINC WITH TRI-ISOOCTYLAMINE AND ITS SPECTROPHOTOMETRIC DETERMINATION IN ELECTROLYTIC NICKEL
67-06 M19-70971
STRUCTURE AND STOICHIOMETRY OF NICKEL HYDROXIDES IN SINTERED NICKEL POSITIVE ELECTRODES
67-07 M19-73447
IDENTIFICATION OF SEVERAL ELEMENTS AND QUANTITATIVE DETERMINATION OF NICKEL AND COPPER IN COINS BY A COMBINED ELECTROGRAPHIC-RING OVEN TECHNIQUE
67-09 M19-77257
GAS INCORPORATION INTO SPUTTERED FILMS
67-12 M14-83264

NICKEL, CLAD METALS
PRODUCING BIMETALS BY VACUUM ROLLING
67-05 M12-68235

NICKEL, COATING
NICKEL-STEEL-NICKEL PACK ROLLING
67-01 M12-58069
BRIGHT COPPER PLATING FROM SULFURIC ACID ELECTROLYTES
67-01 M12-58708
CALORIZING OF NICKEL BY A CIRCULATORY METHOD
67-02 M12-61988
A NEW BLACK CHROMIUM PLATE
67-03 M12-65326
PRODUCING A LAYER OF NICKEL AND COBALT BORIDES ON THE SURFACE OF IRON
67-03 M12-65973
THE ADHESION TEMPERATURE BETWEEN GLASS AND METALS
67-04 M12-67421
THE DEPOSITION OF CADMIUM
67-04 M12-67797
USE OF PLASTIC-COATED PRODUCTS IN MODERN INDUSTRY
67-04 M20-66556
THE ELECTRODEPOSITION OF IRIDIUM
67-05 M12-68829
ELECTROFORMED NICKEL MOTOR CASES CUT COST
67-07 M12-74007
ALUMETIZING OF NICKEL BY THE CIRCULATION METHOD
67-10 M12-78845
THE DIFFUSIONAL BERYLLIZING OF CERTAIN TECHNICAL MATERIALS
67-12 M12-82482

NICKEL, COATINGS
HIGH-SPEED PLATING OF INDUSTRIAL NICKEL COATINGS
67-01 M12-57540
NEW METALLIC COATINGS AND TREATMENTS FOR CONTAINER STEEL SURFACES
67-01 M12-57547
PLATED NICKEL SHAPES UP
67-01 M12-58724
APPLICATIONS OF METALLIZING IN THE STEEL MILL
67-01 M18-57163
THE USE OF THE ELECTRON BEAM THICKNESS GAGE ON MULTI-LAYERED COATINGS
67-01 M19-57541
THROWING POWER OF NICKEL BARREL PLATING
67-02 M12-59160
PILOT LINE SUCCESS INDICATES FEASIBILITY OF NEW TYPE NICKEL COATING SYSTEM
67-02 M12-60239
PLATING ON ALUMINUM AND ALUMINUM ALLOYS
67-02 M12-60991
DEFINITION OF ELECTROLYTES AND ELECTRODEPOSITS
67-02 M12-62288
IMPROVEMENTS IN THE CORROSION RESISTANCE OF ELECTROPLATED LAYERS OF THE CU-NI-CR SYSTEM FOR USE IN THE AUTOMOTIVE INDUSTRY
67-02 M18-60032
ELECTRODEPOSITION FROM THE PYROPHOSPHATE BATH-- TERNARY ALLOYS OF NICKEL-COBALT-IRON
67-03 M12-65043
A PHOTOMETRIC METHOD FOR DETERMINING REFLECTIVITY AND ADHERENCE OF DEPOSITED METAL
67-03 M12-65104
EFFECT OF HEAT TREATMENT ON TEXTURE OF TI ALLOYS AND ON THE CR AND NI ELECTRO-DEPOSITED ON THEM
67-03 M14-65591
VAPOR PHASE FORMING
67-04 M12-68155
ADVANTAGES OF NI COATINGS
67-05 M12-69191
DETERMINATION OF RESIDUAL STRESSES IN ELECTROLYTIC COATINGS FROM THE DEFLECTION OF A FLAT CATHODE
67-05 M17-69615
DIFFUSION COATING OF METALS INTO IRON DURING SINTERING
67-06 M12-71295
ANALYSIS OF FOREIGN MOLECULES INCORPORATED IN ELECTROLYTICALLY DEPOSITED NICKEL
67-06 M12-71649
SILVER-PLATED/NICKEL-PLATED COPPER WIRE SHOWS INCREASED CORROSION RESISTANCE
67-06 M18-72093
EFFECTS OF BORIC ACID IN ELECTROLESS PLATING BATH
67-07 M12-72605
PHOTOMETRIC METHOD OF DETERMINING THE REFLECTING POWER OF DEPOSITED METAL AND ITS ADHESION TO THE SUBSTRATE
67-07 M12-72788
INVESTIGATION OF INTERNAL STRESSES IN SN-NI COATINGS
67-07 M12-73652
PLATING PLASTICS
67-07 M12-74155
THE STRAIN IN TRIPLEX NICKEL PLATING PRODUCED BY INSTANTANEOUS INTERNAL STRESS
67-07 M17-72604
INTERNAL STRESS IN ELECTRODEPOSITS
67-07 M17-73626
ELECTROFORMING--A NEW PROCESS
67-08 M12-74569
RESISTIVITY MEASUREMENTS OF VACUUM-RESIDUAL GASES DURING VACUUM DEPOSITION OF AU AND NI
67-08 M12-75181
SUBSTRATE-TEMPERATURE MEASUREMENT AND CONTROL
67-08 M19-74563
ELECTROFORMING WITH NI
67-09 M08-78176
COATED-PARTICLE FUELS. PARTICLE COATING
67-09 M16-77312
INVESTIGATION OF REFLECTIVITY AND STRUCTURE OF ELECTRODEPOSITED NICKEL DURING ELECTROLYSIS
67-10 M12-79940
METAL CLAD EXTENDS COPPER CONDUCTOR RANGE TO 1300 F
67-10 M12-80093
THE ANODIC DISSOLUTION OF ELECTRODEPOSITED NICKEL
67-10 M14-79966
FATIGUE CRACKING OF IRON AFTER ELECTROPLATING
67-10 M17-79767
DEFEATING THE RED PLAGUE
67-10 M18-79428
PLATING
67-11 M12-80480
PILOT LINE SUCCESS INDICATES FEASIBILITY OF NEW DIFFUSION-BONDING SYSTEM FOR NICKEL COATING OF STEEL
67-12 M12-82881

NICKEL, COMPOSITE MATERIALS
CERTAIN CONDITIONS FOR THE PREPARATION AND ETCHING OF THIN SECTIONS OF METAL-GRAPHITE COMPOSITIONS
67-02 M09-61794
THE CHARACTER OF REACTION OF TITANIUM NITRIDE WITH THE IRON GROUP METALS, MOLYBDENUM, AND TUNGSTEN
67-02 M09-62213
COMPARATIVE INVESTIGATION OF THE PROPERTIES OF NICKEL-GRAPHITE COMPOSITES CONTAINING CARBONYL NICKEL OR ELECTROLYTIC NICKEL
67-04 M09-66257
A COMPARATIVE INVESTIGATION OF THE PROPERTIES OF NICKEL-GRAPHITE MATERIALS FROM ELECTROLYTIC AND CARBONYL NICKEL POWDERS
67-10 M09-78989

NICKEL, CORROSION
SINTERED FILTERS FOR FILTERING CORROSIVE LIQUIDS AND HOT GASES
67-01 M18-57601
EFFECT OF THE SURFACE STRUCTURE ON THE ELECTROCHEMICAL BEHAVIORS OF ELECTRODEPOSITED NICKEL
67-01 M18-58740
AN ELLIPSOMETRIC DETERMINATION OF THE MECHANISM OF

PASSIVITY OF NICKEL 67-02 M18-59448
INFLUENCE OF CONCENTRATED NEUTRAL SALT SOLUTIONS ON THE CORROSION OF METALS 67-02 M18-61763
THE EFFECT OF SULFUR, PHOSPHORUS AND SILICON ADDITIVES ON THE ACTIVITY AND TYPE OF CORROSION OF NICKEL ANODES 67-03 M18-65417
GALVANIC PITTING IN METALLIC COATINGS 67-04 M18-66715
CORROSION OF ELECTRODEPOSITED CHROMIUM 67-04 M18-66716
A STUDY OF THE ELECTRODE POTENTIAL OF NICKEL IN ACCELERATED CORROSION TEST MEDIA 67-05 M18-68817
CAPACITANCE MEASUREMENTS DURING ACTIVATION OF PASSIVE NICKEL 67-05 M18-69477
THE PROBLEM OF PASSIVATION OF NICKEL IN SULFURIC ACID SOLUTIONS 67-05 M18-69824
CAVITATION DAMAGE AND CRYSTAL STRUCTURE --A STUDY OF CAVITATION DAMAGE FROM THE VIEWPOINT OF MATERIAL SCIENCE. PT. 3.-- 67-06 M18-70780
ANODIC CORROSION OF NICKEL SINTER IN POSITIVE ELECTRODES OF NICKEL-CADMIUM BATTERIES CONTAINING CARBONATE 67-06 M18-71689
DEVELOPMENTS IN NICKEL AND CHROMIUM DECORATIVE COATINGS AND IN ELECTROFORMING WITH NICKEL. PT. 1 67-07 M12-73129
CORROSION RESISTANT MATERIALS IN ACYLATING HYDROLYZING MEDIA IN THE PRODUCTION OF CELLULOSE ACETOBUTYRATE 67-07 M18-72872
PROTECTIVE EFFECT OF PROPARGYL ALCOHOL DURING CORROSION OF NICKEL IN SULFURIC ACID 67-07 M18-73650
HOW METALS RESIST SEA WATER 67-08 M18-74741
EFFECT OF HALIDE ADDITIONS ON ANODIC BEHAVIOR OF NICKEL IN SULFURIC ACID SOLUTIONS 67-08 M18-76189
CORROSION RESISTANCE OF PLATINUM, COPPER NICKEL, AND TANTALUM IN LIQUID OXYGEN DIFLUORIDE 67-09 M18-77893
INFLUENCE OF SURFACE CONDITION ON THE INHIBITING EFFECT OF DIBENZYLSULFOXIDE IN THE DISSOLUTION OF NICKEL IN HCL 67-10 M18-79933
SOME EFFECTS OF FLOW AND AERATION ON THE CORROSION BEHAVIOUR OF NICKEL IN SULPHURIC ACID SOLUTIONS 67-11 M18-80710
PASSIVATION OF NICKEL IN SOLUTIONS OF SULFURIC ACID 67-12 M18-82258
STRUCTURE AND GROWTH OF THIN FILMS ON METALS EXPOSED TO OXYGEN 67-12 M18-82891
FIELD CORROSION TESTS FOR COMPARISON OF CORROSIVITY IN JAPAN AND CHINA 67-12 M18-82894
HEAT RESISTANT STEELS --WORKING-- IN DIRECT CONTACT WITH MOLTEN GLASS. PT. 2 67-12 M18-83461

NICKEL, CRYSTAL DEFECTS
THE FERROMAGNETIC AFTER-EFFECT IN IRRADIATED NICKEL, AND ITS APPLICATION TO THE STUDY OF POINT DEFECTS IN FCC METALS 67-04 M13-67318
NUCLEATION OF DEFECTS IN METALS 67-05 M14-69730
THE STUDY OF DEFECTS IN QUENCHED NICKEL 67-05 M14-69781
ELECTRON MICROSCOPY OF TYPES OF DEFECT CLUSTERS IN IRRADIATED METALS. PT. 2. STUDY OF NEUTRON AND ION IRRADIATED COPPER AND NEUTRON IRRADIATED NICKEL 67-05 M16-69783

NICKEL, CRYSTAL GROWTH
THE GROWING OF SINGLE-CRYSTAL LAYERS OF IRON, NICKEL, COBALT AND THEIR ALLOYS 67-02 M14-61513
GROWING OF SINGLE CRYSTALLINE NICKEL FOILS 67-02 M14-61895
THE ROLE OF TWINNED PLANES IN THE GROWTH OF THICK ELECTROLYTIC DEPOSITS OF NICKEL IN THE --211-- DIRECTION 67-05 M14-69130
EPITAXIAL GROWTH OF SILVER AND NICKEL FILMS BY CATHODE SPUTTERING ON NACL CRYSTALS CLEAVED IN VACUUM 67-06 M14-70524
NUCLEATION OF CRYSTALS IN MULTILAYER METALLIC ADSORBATES 67-10 M14-79409

NICKEL, CRYSTAL LATTICES
THE ANNEALING OF WEAKLY DEFORMED POLYCRYSTALLINE NICKEL FOILS IN AN ELECTRON MICROSCOPE 67-01 M14-58798
RECOVERY PROCESSES IN NICKEL THIN FILMS BETWEEN 20 AND 300 C 67-01 M15-57579
EFFECT OF THE RECOVERY OF POINT DEFECTS ON THE COERCIVE FIELD OF NICKEL SINGLE CRYSTALS WITHIN THE TEMPERATURE RANGE-250 TO 0 C 67-01 M15-58657
INVESTIGATION OF THE DECOMPOSITION OF VACANCY AGGLOMERATES IN NEUTRON-IRRADIATED NICKEL WITH THE AID OF THE CRITICAL SHEAR STRESS 67-02 M13-61516
DISLOCATION MORPHOLOGY IN SHOCK DEFORMED BCC AND FCC METALS AND ALLOYS 67-04 M13-66071
SMALL-ANGLE X-RAY SCATTERING METHOD OF STUDYING THE STRUCTURE OF NICKEL UNDER ALTERNATING LOAD 67-04 M13-67638
EFFECT OF HYDROGEN ON THE TEMPERATURE DEPENDENCE OF THE FLOW STRESS OF NICKEL AND STAINLESS AUSTENITIC STEEL 67-04 M17-67649
STUDY OF HYDROGENATED NICKEL 67-05 M13-69458
FAULTED DEFECTS AND STACKING-FAULT ENERGY 67-06 M13-71534
THE LATTICE VIBRATIONS OF NICKEL IN KREBS MODEL 67-06 M16-70988
DISLOCATION VELOCITIES IN NICKEL SINGLE CRYSTALS 67-07 M13-72658
ANNEALING BEHAVIOR OF FINE-GRAINED NICKEL ELECTRODEPOSITS 67-07 M14-73452
LATTICE DYNAMICS OF NICKEL 67-08 M13-74793
STACKING FAULTS IN NICKEL POWDERS 67-08 M13-75421
THE RELATIONSHIP OF THE DISLOCATION INITIATION STRESS IN TECHNICAL PURITY NICKEL TO TEMPERATURE 67-08 M14-74866
LATTICE DEFECTS IN SHOCK-DEFORMED AND COLD WORKED NICKEL 67-08 M14-75118
DEFORMATION TWINNING IN NI AND FCC FE-NI ALLOYS 67-09 M13-76596
SUBSTRUCTURES IN OXIDE SCALES ON NICKEL, COBALT, AND NICKEL-COBALT ALLOYS 67-09 M13-76620
THE RELATION BETWEEN THE LATTICE DEFORMATIONS AND CRYSTAL ORIENTATION IN ELECTROLYTICALLY DEPOSITED POLYCRYSTALLINE NICKEL LAYERS 67-09 M14-76798
THE EFFECT OF IMPURITIES ON THE RECOVERY OF COLD-WORKED NICKEL 67-09 M14-77518
LATTICE DYNAMICS OF NICKEL 67-09 M16-77748
THE CORRELATION BETWEEN THE STRUCTURE OF METAL AND THE CONDITIONS UNDER WHICH IT WORKS 67-10 M13-78378
X-RAY K ABSORPTION EDGES OF ALLOYS. PT. 1. CORRELATION TO BAND MODELS 67-11 M16-80118
BINDING ENERGIES AND ENTROPIES OF MULTIPLE VACANCIES IN FCC METALS 67-11 M16-81121

NICKEL, DEPOSITION
COMPOSITION AND STRUCTURE OF NICKEL LAYERS, CONDENSED ONTO NIOBIUM 67-06 M12-72379

NICKEL, DIFFRACTION
DIFFRACTION PHOTOGRAPHY PICKS UP SPEED 67-04 M13-66108

NICKEL, DIFFUSION
KINETICS OF THERMODIFFUSIVE PROCESSES IN WELDING 67-01 M11-57645
HYDROGEN IN NICKEL 67-01 M14-58053
STUDY OF COMPATIBILITY IN THE SYSTEMS ZIRCALOY-2/ALUMINUM, ZIRCALOY-2/COPPER AND ZIRCALOY-2/NICKEL 67-02 M14-58923
SELF-DIFFUSION OF NI IN AUSTENITE OF NICKEL STEELS 67-02 M14-59117
CALCULATION OF DIFFUSION PARAMETERS 67-02 M14-61918
STUDY OF DIFFUSION ON THE PHASE BOUNDARIES 67-03 M14-65786
DETERMINATION OF THE DIFFUSION COEFFICIENT OF CARBON IN NICKEL BY THERMOGRAVIMETRIC ANALYSIS 67-04 M14-66339
SELF-DIFFUSION IN MONOCRYSTALLINE NICKEL 67-04 M14-67379
THE EFFECT OF P VAPOR ON COMMERCIAL NI AND W 67-05 M14-68586
ISOTOPE EFFECTS IN THE DIFFUSION AND SOLUBILITY OF HYDROGEN IN NICKEL 67-05 M14-69674
DIFFUSION AND SOLUBILITY OF HYDROGEN IN SINGLE CRYSTALS OF NICKEL AND NICKEL-VANADIUM ALLOY 67-05 M14-69675
ACTIVATED SINTERING OF TUNGSTEN WITH SMALL ADDITIONS OF NICKEL 67-06 M09-71459
THE BOUNDARY DIFFUSION OF NICKEL INTO IRON 67-06 M14-70332
DIFFUSION AND SOLUBILITY OF HYDROGEN IN NICKEL-MANGANESE ALLOYS 67-06 M14-71365
THE ISOTOPE EFFECT FOR DIFFUSION IN THE CR-NI SYSTEM.. CRITICISM OF A PAPER BY HEUMANN AND REERINK 67-06 M14-71973
INSOLUBILITY AND DISLOCATION DIFFUSION IN METALS 67-06 M14-72229

NICKEL
SURFACE SELF-DIFFUSION AND SURFACE ENERGY OF NICKEL 67-07 M14-72643
CALCULATION OF BOUNDARY DIFFUSION 67-07 M14-73487
ANISOTROPIC DIFFUSION OF NICKEL IN ZINC STUDIED BY AN AUTORADIOGRAPHIC METHOD 67-08 M14-74667
SURFACE SELF-DIFFUSION OF NICKEL AND PLATINUM 67-08 M14-75128
DIFFUSION OF NICKEL IN SILICON 67-08 M14-75221
DIFFUSION OF NICKEL IN BINARY ALLOYS OF IRON WITH NICKEL, MANGANESE AND CHROMIUM 67-08 M14-75578
INVESTIGATION OF THE KINETICS OF THE SOLUBILITY OF HYDROGEN IN FE, NI, CO AND CU 67-08 M14-75662
DISSOCIATIVE DIFFUSION OF NICKEL IN SILICON AND SELF-DIFFUSION OF SILICON 67-08 M14-75936
A STUDY OF EFFECTIVE VOLUMETRIC SELF-DIFFUSION IN SINTERED NICKEL 67-10 M14-78318
DIFFUSION IN THE FE-NI SYSTEM 67-10 M14-79710
DETERMINATION OF THE INTRINSIC COEFFICIENTS OF DIFFUSION BY MEASURING THE KIRKENDALL EFFECT IN THE FE-NI SYSTEM 67-10 M14-79711
A POSSIBLE ALLOY OF NICKEL AND SILVER IN THIN FILMS 67-11 M14-81268
ACTIVATED SINTERING OF TUNGSTEN WITH SMALL ADDITIONS OF NICKEL 67-12 M09-82780
A NOTE ON NICKEL DIFFUSION IN COPPER 67-12 M14-82018

NICKEL, DISSOLVING
INFLUENCE OF SULFATE IONS ON ANODIC BEHAVIOR OF NICKEL 67-01 M18-58703

NICKEL, ELECTRICAL PROPERTIES
PLANE HALL EFFECT IN FERROMAGNETIC METALS 67-02 M15-61119
THE MATTEUCCI EFFECT IN IRON AND NICKEL WIRES 67-03 M15-65721
EXPERIMENTS ON THE MAGNETORESISTIVITY AND HALL EFFECT IN NI AND NI ALLOYS. THE VALIDITY OF KOHLERS RULE 67-05 M15-68280
MEASURING THE ELECTRICAL CONDUCTIVITY OF GALVANIC DEPOSITS IN THE COURSE OF ELECTROLYSIS 67-05 M15-68738
ELECTRICAL PROPERTIES OF VACUUM DEPOSITED NICKEL FILMS 67-05 M15-69094
THE RECOVERY OF THE ELECTRICAL RESISTIVITY OF NICKEL AFTER PLASTIC DEFORMATION 67-06 M15-70441
ELECTRICAL RESISTIVITY RECOVERY OF COLD-WORKED HIGH PURITY NICKEL 67-06 M15-71965
THE CHANGE IN ELECTRICAL RESISTIVITY WITH PLASTIC DEFORMATION OF ALUMINUM AND NICKEL 67-06 M15-71972
RECOVERY OF ELECTRICAL RESISTANCE IN NI AND NI-CU ALLOYS AFTER QUENCHING AND DEFORMATION 67-06 M15-72361
ANISOTROPY OF THE EXTRAORDINARY HALL EFFECT OF NI SINGLE CRYSTALS 67-07 M15-72409
RECOVERY OF ELECTRICAL RESISTIVITY IN NI DEFORMED AT LOW TEMPERATURES 67-08 M15-76215
MEASUREMENT OF THOMSON HEAT IN METALLIC SYSTEMS 67-10 M15-79998

NICKEL, ELECTRODES
ELECTROCHEMICAL STUDIES ON COPPER ALLOYS IN STAGNANT AND MOVING 3 PER CENT NACL AQUEOUS SOLUTIONS CONTAINING HYDROGEN SULFIDE 67-01 M18-58334
ELECTROCHEMICAL PROPERTIES OF A NICKEL DSK ELECTRODE 67-10 M15-78483

NICKEL, ELECTROLYSIS
ANODIC DISSOLUTION OF NICKEL IN A MELTED MIXTURE OF SODIUM AND POTASSIUM CHLORIDES 67-02 M02-61542
SOME FEATURES OF SLIME FORMATION DURING ELECTROLYTIC REFINEMENT OF CU AND NI 67-02 M03-60561
WETTABILITY AND PITTING FORMATION ON CATHODE NICKEL 67-06 M03-72106
INFLUENCE OF CHLORINE IONS ON ELECTROLYTIC PRECIPITATION OF ZINC DURING ELECTROREFINING OF NICKEL 67-08 M03-75204

NICKEL, ELECTROLYTES
AUTOMATION OF A LABORATORY INSTALLATION FOR EXTRACTION CLEANING OF NICKEL ELECTROLYTE 67-02 M03-62047

NICKEL, ELECTROPLATES
ELECTROFORMING THIN SHELLS FOR EXPERIMENTAL STUDIES 67-07 M12-73132

NICKEL, ELECTROREFINING
ELECTROLYTIC REFINING OF NICKEL 67-02 M03-59737
ELECTROREFINING OF NICKEL WITH USE OF HIGH-SULFUR ANODES 67-06 M03-71349

NICKEL, EXTRACTION
MAGNETIC SEPARATION OF NICKEL FROM NICKEL CONTAINING IRON ORE, TREATED BY SULFIDIZING AND REDUCING ROASTING 67-02 M03-58937
DECOPPERIZATION OF NICKEL-CONTAINING CONVERTER SLAGS WHICH ARE BYPRODUCTS OF COPPER PRODUCTION 67-02 M03-59188
AUTOCLAVE LEACHING OF NICKEL MATTES 67-02 M03-59191
METHOD OF PREPARING NICKEL AND COBALT FROM HYDRATED SILICEOUS ORES 67-02 M03-59591
METHOD OF PREPARING NICKEL FROM OXIDES 67-02 M03-59592
THE SULFURIC ACID METHOD OF COMPLEX PROCESSING LOCAL SERPENTINES 67-05 M02-69302
ON EXTRACTION OF NICKEL FROM LATERITES AND GARNIERITE BY SEGREGATION ROASTING PROCESS 67-05 M02-69362
FRACTIONAL RE-EXTRACTION OF METALS FROM POLYMETALLIC SOAPS 67-06 M03-71350
THE RECOVERY OF COBALT BY THE SOLUBLE COBALTIC AMMINE PROCESS 67-09 M03-76740
MODIFIED TECHNIQUES OF SEPARATING COBALT FROM NICKEL 67-09 M03-76803
METHOD OF RECOVERING REJECT TRANSISTORIZED DEVICES 67-10 M03-79863
SIMULTANEOUS ELECTRODEPOSITION OF NICKEL WITH RHENIUM AND MOLYBDENUM FROM SULFATE-AMMONIA ELECTROLYTE AND THE MECHANISM OF THIS PROCESS 67-11 M03-80439
FACTORS INFLUENCING THE KINETICS OF NICKEL LEACHING IN AN AMMONIA SOLUTION 67-12 M03-81785
METHOD OF REMOVING ORGANIC SUBSTANCES FROM NICKEL ELECTROLYTES 67-12 M03-83326

NICKEL, EXTRACTIVE METALLURGY
SELECTIVE CHLORINATION OF IRON ORES CONTAINING CHROMIUM AND NICKEL BY FLUIDIZED ROASTER 67-04 M02-67553

NICKEL, EXTRUSION
DEVELOPMENT AND STATUS OF THE APPLICATION OF THE EXTRUSION PROCESS TO STEEL 67-06 M07-70452
HOT EXTRUSION OF METAL POWDERS 67-09 M09-77056
EXTRUSION OF NICKEL WITH HIGH-PRESSURE LIQUID 67-10 M07-79044

NICKEL, FERMI SURFACE
DE-HAAS-VAN ALPHEN EFFECT IN FERROMAGNETIC NICKEL 67-01 M16-57554

NICKEL, FORMING
SOME APPLICATIONS OF ELECTROFORMING 67-02 M08-61563
MATERIAL ASPECTS OF HIGH ENERGY RATE DEFORMATION AT AMBIENT AND ELEVATED TEMPERATURES 67-05 M17-69743

NICKEL, GRAIN BOUNDARIES
GRAIN BOUNDARY RELAXATION IN FOUR HIGH-PURITY FCC METALS 67-06 M13-71607

NICKEL, HARDENING
METHOD OF OBTAINING METAL BORIDES 67-04 M09-66962
INFLUENCE OF THERMAL HARDENING ON STRUCTURE AND PROPERTIES OF HEAT RESISTANT ALLOYS 67-06 M17-72347

NICKEL, HYDROMETALLURGY
A CONTINUOUS AUTOMATED PLAN FOR OBTAINING NICKEL HYDROXIDE FROM SOLUTIONS FROM HYDROMETALLURGICAL PRODUCTION OF COBALT 67-02 M03-61279

NICKEL, INTERMETALLICS
THE CRYSTAL STRUCTURES OF THE RARE-EARTH COMPOUNDS OF THE FORM R2NI17, R2CO17 AND R2FE17 67-01 M13-58536
ISOTHERMAL ORDERING OF NI4MO ALLOY 67-02 M14-62239
THE DEFORMATION PROPERTIES AND ELECTRON MICROSCOPY STUDIES OF THE INTERMETALLIC COMPOUND NIAL 67-02 M17-58963
THE OPERATIVE SLIP SYSTEM AND GENERAL PLASTICITY OF NIAL. PT. 2 67-02 M17-60640
THE REFLECTANCE OF THE INTERMETALLIC COMPOUNDS NIAL AND COAL 67-03 M15-65640
NEUTRON DIFFRACTION OF CR2NIS4 67-04 M13-67731
ORDERING PROCESSES AND STRAIN AGEING OF TERNARY ORDERED ALLOYS BASED ON NI3FE 67-04 M14-67641

ELASTIC PROPERTIES OF NITI AS A FUNCTION OF TEMPERATURE 67-04 M17-66116
OXIDE DISPERSION-STRENGTHENED NIAL AND FEAL 67-04 M17-66933
ELEVATED-TEMPERATURE DEFORMATION MECHANISMS IN BETA PRIME-NIAL 67-04 M17-66939
DISLOCATION IN THE DIRECTION --110-- AND HARDENING OF ALLOY WITH L12 STRUCTURE 67-05 M13-69470
EU2NI17 AND EUNI5 COMPOUNDS AND THEIR CRYSTAL STRUCTURES 67-06 M13-69996
PHASE DECOMPOSITION IN NEAR NI3AL ALLOYS 67-06 M14-69941
FERROMAGNETISM IN THE INTERMETALLIC PHASE NI3AL 67-06 M15-71993
NUCLEAR SPECIFIC HEATS OF MNNI AND MNNI3 67-06 M15-71998
TENSILE RESULTS IN ORDERED AND DISORDERED NI3FE SINGLE CRYSTALS 67-06 M17-72240
THE CRYSTAL STRUCTURE OF TANI3 AND ITS CHANGE ON COLD WORKING 67-07 M13-73922
PARALLEL OBLIQUE-INCIDENCE ANISOTROPY IN NIFE FILMS 67-07 M15-73574
LOCAL ORDER IN SOLID ALLOYS. PT. 1 67-08 M13-75338
OBSERVATION OF A MARTENSITIC TRANSFORMATION IN THE COMPOUND NIAL 67-08 M14-75581
X-RAY STUDIES IN THE SYSTEM THNI5-XALX 67-10 M13-78670
NEUTRON DIFFRACTION ANALYSIS OF FE-CO ATOMIC FERROMAGNETIC SUPERLATTICES 67-10 M13-79916
THE CRYSTAL STRUCTURE OF THE M PHASE, NB-NI-AL 67-11 M13-80489
EFFECT OF HYDROSTATIC EXTRUSION ON THE MECHANICAL PROPERTIES OF CUZN AND TINI 67-11 M17-81529
RECOVERY PROCESSES AND ORDERING IN NI3AL 67-12 M14-83262
TEMPERATURE AND ORIENTATION DEPENDENCE OF THE FLOW STRESS IN OFF-STOICHIOMETRIC NI3AL --GAMMA PHASE-- 67-12 M17-82719

NICKEL, IRRADIATION
INVESTIGATION OF INELASTIC NEUTRON SCATTERING BY A CRYSTAL WITH LIGHT IMPURITY ATOMS 67-10 M16-79463

NICKEL, LIQUID METALS
THE EFFECT OF ZIRCONIUM ON THE SURFACE PROPERTIES OF LIQUID NICKEL AT THE MELT-GAS AND MELT-SOLID ALUMINUM OXIDE INTERFACES 67-02 M15-62113

NICKEL, MAGNETIC PROPERTIES
EFFECTS OF GASES ON THE PROPERTIES OF VAPOR-DEPOSITED NI-FE FILMS 67-01 M15-57113
CHANGE IN THE MAGNETIC PROPERTIES OF NICKEL DURING THERMOMAGNETIC CYCLING 67-01 M15-57659
EFFECT OF THICKNESS ON THE COERCIVE FORCE OF THIN NICKEL FILMS 67-01 M15-58029
INVESTIGATIONS OF THE DOMAIN STRUCTURE OF NICKEL SINGLE CRYSTALS 67-01 M15-58666
SLOW RELAXATION EFFECTS IN MAGNETICALLY NONUNIFORM MATERIALS 67-01 M15-58667
THE MAGNETIZATION PROCESS IN NICKEL SINGLE CRYSTALS. PT. 1 67-01 M15-58779
EFFECT OF DEFORMATION-INDUCED CRYSTAL IMPERFECTIONS ON MAGNETOCRYSTALLINE ANISOTROPY OF NICKEL SINGLE CRYSTALS 67-02 M13-61831
INVESTIGATION OF TEMPERATURE AND STRUCTURAL DEPENDENCE OF FERROMAGNETIC PROPERTIES OF NICKEL FILMS PRODUCED CHEMICALLY 67-02 M15-59921
FERROMAGNETIC RESONANCE IN NICKEL AT LOW TEMPERATURES 67-02 M15-60759
MAGNETIC PROPERTIES OF SINGLE-CRYSTAL LAYERS OF FE, NI, CO AND THEIR ALLOYS 67-02 M15-61514
ON THE ORIGIN OF M-INDUCED ANISOTROPY IN NICKEL AND PERMALLOY FILMS 67-02 M15-61519
MAGNETIC ANALYSIS BY ELECTRON REFLECTION 67-02 M15-61899
THE EFFECT OF MAGNETIC TEXTURE ON THE PROCESSES OF MAGNETIC REVERSAL OF FERROMAGNETICS 67-02 M15-62076
EPITAXIAL FILMS OF IRON, NICKEL AND COBALT 67-02 M15-62078
THE MAGNETOSTRICTION OF NICKEL 67-03 M15-65189
INFLUENCE OF HYDROGEN ON THE MAGNETOMECHANICAL DAMPING IN NICKEL 67-03 M17-65384
MEASUREMENT OF CURIE TEMPERATURE BY AN INDUCTION METHOD 67-04 M15-66305
MAGNETIZATION PROCESSES IN THE HIGH-FIELD RANGE OF FERROMAGNETICS MADE BY PRESSING FERROMAGNETIC PARTICLES 67-04 M15-66484
MAGNETIZATION OF THIN NICKEL FILMS 67-04 M15-67390
THE MAGNETOSTRICTION OF NI 67-04 M15-67730
SPIN-ORBITAL INTERACTION AND MAGNETIC-OPTICAL KERR EFFECT IN FERROMAGNETIC METALS 67-04 M16-67387
THE EFFECT OF DISLOCATIONS ON THE MAGNETIZATION CURVES OF FERROMAGNETIC CRYSTALS 67-05 M15-69453
DEFORMATION AND TEMPERATURE INFLUENCES ON MAGNETIC PROPERTIES OF NICKEL SINGLE CRYSTALS. PT. 1. DOMAIN WALL DISPLACEMENTS IN 110 AND 111 NICKEL SINGLE CRYSTALS 67-05 M15-69773
STUDY OF THE DOMAIN STRUCTURE OF NICKEL SINGLE CRYSTALS. PT. 2. MEASUREMENTS AND OBSERVATIONS ON PRISMATIC CRYSTALS WITH A --110-- AXIS 67-05 M15-69779
INTERNAL FIELDS AT NUCLEI OF SEVERAL IMPURITIES IN FERROMAGNETIC FE, CO AND NI ALLOYS. PT. 2 67-05 M16-69765
A NOVEL METHOD FOR THE MEASUREMENT OF CRYSTAL ANISOTROPY IN MAGNETIC FILMS 67-06 M15-70581
DEFORMATION AND TEMPERATURE DEPENDENCE OF THE MAGNETIZATION PROCESS IN NICKEL SINGLE CRYSTALS. PT. 2. BLOCH WALL DISPLACEMENTS AND ROTATIONS OF THE SPONTANEOUS MAGNETIZATION IN --001-- NICKEL SINGLE CRYSTALS 67-06 M15-70984
INTERACTION BETWEEN DISLOCATIONS AND BLOCK WALLS WITH FIXED MAGNETIZATION 67-06 M15-70989
MAGNETIC THIN FILMS DEPOSITED ONTO A LIQUID-LIKE SURFACE 67-06 M15-71547
MAGNETIC RELAXATION IN NICKEL ABOVE THE CURIE TEMPERATURE 67-06 M15-71787
INVESTIGATION OF THE MAGNETIC STRUCTURE OF A FERROMAGNETIC SUBSTANCE BY MAGNETO-OPTIC APPARATUS WITH MICRON RESOLUTION 67-06 M15-71922
THE TEMPERATURE AND STRUCTURE DEPENDENCE OF THE FERROMAGNETIC PROPERTIES OF CHEMICALLY PRODUCED NICKEL FILMS 67-07 M15-72576
THE MAGNETIZATION PROCESS IN NICKEL SINGLE CRYSTALS. PT. 2 67-07 M15-72888
SURFACE OF MAGNETIZATION, FIELD, AND TEMPERATURE FOR NICKEL NEAR ITS CURIE TEMPERATURE 67-07 M15-73501
EFFECTS OF APPLIED AND RESIDUAL STRESS ON THE MAGNETORESISTANCE OF NICKEL 67-07 M15-73505
ORIGIN OF CONSTRICTED MAGNETIZATION LOOPS IN HARD-ROLLED NICKEL AT LOW TEMPERATURES 67-07 M15-73510
MAGNETIC FORM FACTOR OF NI IN THE PARAMAGNETIC STATE 67-07 M15-73543
EFFECT OF PHOSPHORUS ON THE MAGNETIZATION OF NICKEL 67-07 M15-73547
THE SPECTRUM OF THE MAGNETIC AFTER-EFFECT IN NEUTRON-IRRADIATED NI SINGLE CRYSTALS 67-07 M15-73558
PRESSURE DEPENDENCE OF CURIE TEMPERATURE IN NI 67-07 M15-73559
FORCED MAGNETOSTRICTION OF NICKEL, COBALT, AND IRON AT 4.2 K 67-07 M15-73561
MAGNETOSTRICTION OF NICKEL SINGLE CRYSTALS 67-07 M15-73563
MAGNETOELASTIC INTERACTION OF DISLOCATIONS AND FERROMAGNETIC DOMAIN WALLS AND TORSIONAL MICROCREEP EXPERIMENTS ON IRON AND NICKEL TUBES 67-07 M15-73565
MAGNETOSTRESS EFFECTS IN EVAPORATED NI FILMS 67-07 M15-73575
MAGNETIC PROPERTIES AND ANNEALING BEHAVIOR OF ELECTRODEPOSITED NIFES THIN FILMS 67-07 M15-73596
MAGNETIC PERPENDICULAR ANISOTROPY OF NICKEL THIN FILMS EVAPORATED IN ULTRA HIGH VACUUM 67-07 M15-73988
ORIGIN OF THE PERIODIC COMPONENT OF ANISOTROPY DISPERSION IN NI-FE FILMS. PT. 2 67-08 M15-74608
FERROMAGNETIC RESONANCE IN SMALL PARTICLES OF NICKEL, COBALT AND IRON 67-08 M15-74636
THE TEMPERATURE DEPENDENCE OF THE INTERNAL DEMAGNETIZING FACTOR OF NI 67-08 M15-75646
CHANGE OF THE MAGNETIC ANISOTROPY CONSTANT K1 OF NICKEL UNDER HYDROSTATIC PRESSURE 67-08 M15-75821
INVESTIGATION OF THE MAGNETIC STRUCTURE OF FERROMAGNETIC SUBSTANCES BY A MAGNETOOPTICAL APPARATUS WITH MICRON RESOLUTION 67-10 M15-79541
FINE MAGNETIC DOMAIN STRUCTURES OF IRON, NICKEL AND COBALT FILMS 67-10 M15-79840

NICKEL

A NOTE ON THE CONSISTENCY OF VALUES OF THE SPONTANEOUS OR SATURATION MAGNETIZATION OF POLYCRYSTALLINE IRON AND NICKEL AT 298 K 67-11 M15-80609
THE INITIAL SUSCEPTIBILITY ABOVE AND THE SPONTANEOUS MAGNETIZATION UNDER THE CURIE TEMPERATURE OF FE, CO AND NI 67-11 M15-80807
METALLIC, SOFT-MAGNETIC MATERIALS FOR ULTRASONIC TRANSDUCERS 67-11 M15-80867
THE RAYLEIGH REGION IN NICKEL 67-12 M15-82225
TEMPERATURE DEPENDENCE OF FERROMAGNETIC RESONANCE IN POLYCRYSTALLINE NICKEL 67-12 M15-82228
THE EFFECT OF SURFACE ON THE PROPERTIES OF HIGHLY DISPERSED FERROMAGNETIC POWDERS 67-12 M15-82322
FERROMAGNETIC RESONANCE OF HE3-IRRADIATED THIN METAL FILMS 67-12 M15-83266

NICKEL, MAGNETO OPTICS
SPIN-ORBIT INTERACTION AND DISPERSION OF THE MAGNETO-OPTICAL KERR EFFECT IN NICKEL 67-05 M15-68850

NICKEL, MECHANICAL PROPERTIES
YIELD PLATEAU IN CHROMIUM 67-01 M17-58052
CREEP DUCTILITY AND DIMENSIONAL INSTABILITY OF NICKEL AT 500 AND 525 C 67-01 M17-58458
INVESTIGATION OF THE BRITTLE FRACTURE OF SINTERED MATERIALS 67-02 M09-61710
STEREOPHOTOGRAMMETRIC MEASUREMENT OF AN EXTRUSION-INTRUSTION MICRORELIEF FORMED DURING THE PLASTIC DEFORMATION OF NICKEL 67-02 M13-58855
RECRYSTALLIZATION DURING CREEP OF NICKEL 67-02 M17-58953
AN EVALUATION OF VARIOUS EQUATIONS FOR EXPRESSING FIRST-STAGE CREEP BEHAVIOR 67-02 M17-59438
INCREASING THE HIGH-TEMPERATURE STRENGTH OF NICKEL BY HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT 67-02 M17-60296
INVESTIGATION OF THE EFFECT OF LIGHT MELTING METAL COATINGS ON RECRYSTALLIZED NICKEL AT VARIOUS TEMPERATURES 67-02 M17-60971
EFFECT OF HIGH DEGREES OF DEFORMATION ON THE MECHANICAL PROPERTIES AND ELECTRICAL RESISTANCE OF NI AND NI-ALLOY WIRE 67-02 M17-62058
INFLUENCE OF STRUCTURE ON THE VARIATION IN INTERNAL FRICTION WITH THE AMPLITUDE OF OSCILLATIONS IN FERROMAGNETIC METALS 67-02 M17-62192
EFFECT OF METAL IMPURITIES ON MECHANICAL PROPERTIES OF NICKEL IN TENSION 67-02 M17-62235
DAMPING PEAKS IN DEFORMED NICKEL 67-03 M17-65867
MECHANICAL PROPERTIES OF REFRACTORY METALS 67-04 M17-66443
ACTIVATION ENERGY OF THE TEMPERATURE BACKGROUND OF INTERNAL FRICTION 67-04 M17-66497
THE DEPENDENCE OF ELASTIC AND MAGNETIC PROPERTIES OF NICKEL-COPPER ALLOYS ON ANNEALING TEMPERATURE 67-04 M17-66920
NATURE OF THE ANOMALOUS BEHAVIOUR OF NICKEL 67-05 M17-68256
HIGH-TEMPERATURE CREEP IN NICKEL, COPPER AND THEIR ALLOYS 67-06 M17-69981
STRENGTH OF BISMUTH-COATED NICKEL IN ULTRASONIC FIELD 67-06 M17-70060
DUCTILITY CRITERION FOR NICKEL AND CHROMIUM STEELS AND ALLOYS 67-06 M17-70102
DEFORMATION AND ISOTHERMAL ANNEALING BEHAVIOR OF NICKEL 67-06 M17-71042
ON SERRATED YIELDING AND NEGATIVE STRAIN-RATE SENSITIVITY 67-06 M17-71087
THE IMPORTANCE OF DIFFUSION PROCESSES IN THE CREEP OF NICKEL UNDER DIFFERENT STRESSES 67-06 M17-71103
STRESS STRAIN RELATIONSHIP IN COMPRESSION TESTING OF PURE METALS AND DUCTILE ALLOYS 67-06 M17-71114
EFFECT OF ALLOYING ON THE MECHANISM OF STEADY CREEP OF NICKEL 67-06 M17-71134
THE PROBLEM OF HYDROGEN EMBRITTLEMENT IN NICKEL 67-06 M17-71313
LATTICE STRAIN MEASUREMENTS ON DEFORMED FCC METALS 67-06 M17-71425
ON THE CALCULATION OF POLYCRYSTALLINE ELASTICITY CONSTANTS FROM SINGLE CRYSTAL DATA 67-06 M17-71669
TENSILE STRENGTH OF NICKEL WHISKERS 67-06 M17-71976
EFFECT OF TEMPERATURE AND DEGREE OF DEFORMATION ON HEAT RESISTANCE OF NICKEL DURING THERMOMECHANICAL TREATMENT 67-06 M17-72346
WORK HARDENING AND RECOVERY IN CREEP 67-07 M17-73499
THE DISTRIBUTION OF RESIDUAL STRESSES OF DEFORMED FACE CENTERED CUBIC METALS 67-07 M17-73850
STUDYING THE ANOMALY OF THE TENSILE CHARACTERISTICS OF METALS AND ALLOYS 67-08 M17-74585
FAULTS IN DESIGN REVEALED BY SERVICE FAILURES. PT. 1 67-08 M17-75614
CHARACTER OF FRACTURE OF SINTERED MATERIALS 67-08 M17-75855
INFLUENCE OF REDUCTION OF CROSS SECTION UNDER TENSILE STRESS ON ANISOTROPY AND TEXTURE OF COLD ROLLED POLYCRYSTALLINE NICKEL 67-08 M17-76224
PROPERTIES AND APPLICATIONS OF DISPERSION-STRENGTHENED METALS 67-09 M10-76723
EFFECTS OF THE PRELIMINARY DEFORMATION TEMPERATURE ON THE STRUCTURE OF NICKEL AND ITS RESISTANCE TO CREEP 67-09 M17-76981
EFFECT OF STRAIN CONDITIONS ON SOFTENING AND HEAT RESISTANCE OF NICKEL 67-09 M17-77291
COMMENTS RECRYSTALLIZATION DURING CREEP OF NICKEL 67-09 M17-77599
ON VOID FORMATION IN NICKEL DURING CREEP 67-09 M17-77936
X-RAY INVESTIGATION OF THE EARLY STAGE OF CREEP 67-10 M17-78379
ANISOTROPY OF DEFORMED POLYCRYSTALLINE NICKEL 67-10 M17-78707
STRENGTH OF NICKEL PLATED WITH BISMUTH IN AN ULTRASONIC FIELD 67-10 M17-78806
SOME PROPERTIES OF VACUUM MELTED NICKEL 67-10 M17-79045
BEHAVIOR OF MATERIALS FOR CHEMICAL APPARATUS AT HIGHER TEMPERATURES 67-10 M17-79095
INVESTIGATION OF ANOMALY IN TEMPERATURE DEPENDENCE OF THE STRENGTH IN COMMERCIALLY PURE NICKEL 67-10 M17-79145
STUDY OF INTERNAL FRICTION OF COMMERCIAL NICKEL 67-10 M17-79902
ULTRASONIC WORK HARDENING OF FACE CENTERED CUBIC METALS AND ALLOYS 67-11 M17-80379
HIGHER ORDER ELASTIC CONSTANTS AND THE EQUATION OF STATE OF FCC METALS 67-11 M17-80612
MECHANICAL PROPERTIES OF REFRACTORY METALS 67-11 M17-80984
TECHNIQUE FOR THE DETERMINATION OF DYNAMIC-TENSILE-STRENGTH CHARACTERISTICS 67-11 M17-81091
VISCOUS ULTRASONIC ATTENUATION IN METALS 67-11 M17-81092
VELOCITY KINETICS OF FRACTURE CENTERS IN NICKEL ALLOYS DURING CREEP 67-11 M17-81425
THERMAL STABILITY OF LATTICE DEFECTS IN NICKEL AND ITS SOLID SOLUTIONS 67-11 M17-81426
DYNAMIC DEFORMATION AGING OF CERTAIN METALS 67-11 M17-81427
EFFECT OF MAGNETIC IMPULSE DEFORMATION ON THE MECHANICAL PROPERTIES OF NICKEL, IRON AND COPPER 67-11 M17-81662
INTERNAL STRAIN IN PLASTICALLY DEFORMED TENSILE TESTPIECES OF NICKEL OF DIFFERENT PURITIES 67-12 M17-82058
HYDROGEN EMBRITTLEMENT OF METALS WITH A FACE CENTERED CUBIC LATTICE 67-12 M17-82126
THE EFFECT OF PREANNEALING ON THE HIGH-TEMPERATURE STRENGTH OF NICKEL AFTER THERMOMECHANICAL TREATMENT 67-12 M17-82344
CONSTANT-LOAD CREEP DATA INTERPRETED IN TERMS OF THE STRESS DEPENDENCE OF DISLOCATION VELOCITY 67-12 M17-82961
FAILURE MODES IN NICKEL FATIGUED IN VACUUM AS A FUNCTION OF TEMPERATURE AND PURITY 67-12 M17-82976
INFLUENCE OF SULFUR IMPURITY ON DUCTILITY OF NICKEL 67-12 M17-83025
THE EFFECT OF PRESSURE ON FATIGUE 67-12 M17-83487

NICKEL, MELTING
INDUCTION MELTING IN THE FOUNDRY 67-06 M06-71598

NICKEL, METAL FORMING
A SIMPLE TECHNIQUE FOR SHOCK DEFORMING METAL FOILS 67-08 M08-74393

NICKEL, METAL POWDERS
THE DETERMINATION OF RETAINED AUSTENITE BY X-RAY DIFFRACTION 67-04 M19-66294

NICKEL, METAL WORKING
EXPLOSIVE-FORMING CHARACTERISTICS OF MATERIALS

67-06 M07-71514
SOME CURRENT DEVELOPMENTS IN ELECTROFORMING
67-07 M12-73372
ELECTROFORMING SHAPES A NEW IMAGE
67-10 M08-78594
ONE PIECE ROCKET CASES BY ELECTROFORMING
67-10 M12-78658
AN ASSESSMENT OF ELECTROFORMING
67-10 M12-79438
METALLURGICAL PRINCIPLES OF HOT WORKING
67-12 M17-82043

NICKEL, METALLOGRAPHY
BEHAVIOR OF MONOCRYSTALLINE AND POLYCRYSTALLINE NICKEL IN FUSED SALTS. METALLOGRAPHIC APPLICATION OF FUSED SALTS 67-01 M13-58305
A METALLOGRAPHIC METHOD FOR THE DETERMINATION OF THE SPECIFIC AREA OF POWDER MATERIALS
67-05 M13-69608

NICKEL, MICROSTRUCTURE
CHEMICALLY REACTIVE CRYSTAL DEFECTS IN ELECTRODEPOSITED NICKEL 67-01 M13-58235
EFFECT OF ANNEALING ON THE STRUCTURE OF VACUUM METAL CONDENSATES 67-02 M13-61926
PSEUDO-FIVEFOLD SYMMETRY IN CARBONYL PROCESS NICKEL
67-03 M13-65488
SURFACE STRUCTURE AND CHEMICAL REACTIVITY OF ELECTRODEPOSITED NICKEL 67-04 M13-66270
STRUCTURAL STUDY OF NICKEL SUBJECTED TO PLASTIC DEFORMATION AT INCREASED TEMPERATURES
67-04 M13-67842

NICKEL, MOSSBAUER EFFECT
FE57 MOSSBAUER EFFECT IN NICKEL HYDRIDE
67-05 M16-68278

NICKEL, OPTICAL PROPERTIES
BRIGHTNESS COEFFICIENTS OF METAL POWDERS
67-02 M09-62174
OPTICAL DENSITIES OF STATES OF NICKEL, COBALT, AND PALLADIUM 67-02 M16-61595
LUMINANCE FACTORS OF METAL POWDERS
67-08 M15-75950
THE SPECTRA OF NI ISOTOPES 67-09 M15-77213

NICKEL, OXIDATION
THE OXIDATION OF NICKEL IN THE TEMPERATURE RANGE 700 TO 1100 C 67-01 M18-58124
INVESTIGATION OF THE ELECTROCHEMICAL BEHAVIOR OF MANGANESE AND NICKEL ON A MERCURY ELECTRODE
67-11 M18-80445

NICKEL, PHASES /STATE OF MATTER/
ON THE HEXAGONAL PHASE OF NICKEL
67-04 M14-67109

NICKEL, PHYSICAL PROPERTIES
THE EFFECT OF ANNEALING TEMPERATURE AND PURITY ON HIGH-TEMPERATURE INTERNAL FRICTION IN NICKEL
67-04 M15-66842
MAGNETO-OPTICAL MEASUREMENTS AS A SOURCE OF INFORMATION ON THE ELECTRON STRUCTURE OF FERROMAGNETIC NICKEL 67-04 M15-67911
MICROMETHOD FOR DETERMINING THE FUSION POINTS OF REFRACTORY COMPOUNDS 67-05 M15-68705
MAGNETIC ULTRASONIC ATTENUATION IN NICKEL AND COBALT 67-05 M15-69716
THERMAL AND ELECTRICAL CONDUCTIVITIES AND SPECTRAL AND TOTAL EMISSIVITIES OF NICKEL AT HIGH TEMPERATURES 67-06 M15-70574
THE INFLUENCE OF THE OXYGEN ADSORPTION ON THE SURFACE ENERGY OF FCC NICKEL AND BCC SILICON IRON
67-07 M15-73927
CRYSTALLIZATION OF METALS FROM SUPERCOOLED STATE
67-08 M15-75888
THE DEVELOPMENT OF A RHEOLOGICAL TEST INSTALLATION FOR DETERMINATION OF THE VISCOSITY OF METALLIC MELTS AND MEASUREMENT OF LIQUID FE, CO AND NI
67-10 M15-78341
FIELD-INDUCED CHANGES IN THE BAND STRUCTURE AND FERMI SURFACE OF NICKEL 67-12 M16-82200

NICKEL, POWDER METALLURGY
STUDY OF PREPARATION OF NICKEL POWDER BY ELECTROLYSIS 67-02 M09-61701
STORAGE BATTERY ELECTRODES MADE BY ROLLING CARBONYL NICKEL POWDER 67-02 M09-62202
STUDY OF SPECIFIC PRESSURE DURING METAL POWDER ROLLING 67-04 M09-67334
EFFECTS OF ANNEALING TEMPERATURE ON THE SKELETON NICKEL STRUCTURE 67-04 M09-67864
PREVENTION OF GROWTH OF DISPERSE PARTICLES IN NICKEL 67-04 M10-67340
CONDITIONS SURROUNDING CATHODIC DEPOSITION OF CERTAIN METAL POWDERS AT HIGH CURRENT DENSITIES
67-05 M09-68403
TOKENS AND MEDALLIONS MADE BY POWDER METALLURGY
67-05 M09-68948
SINTERED MATERIALS AND COMPONENTS. PROPERTIES OF MATERIALS PRODUCED BY EXTRUDING AND SINTERING PLASTICIZED POWDER MIXTURES 67-06 M09-70960
THE PUSH FOR PERMEABILITY 67-06 M09-72316
RHEOLOGICAL PROPERTIES OF PLASTICIZED POWDER METAL CHARGE. PT. 3. CHARACTERISTICS OF EXTRUSION OF POWDER CHARGE 67-07 M09-72506
EFFECT OF ELECTROLYSIS CONDITIONS ON THE DISPERSION AND APPARENT DENSITY OF NICKEL POWDER 67-07 M09-73268
PROPERTIES OF A PLASTICIZED POWDER CHARGE AND LAWS OF ITS EXTRUSION 67-08 M09-74903
THE KINETICS OF METALLIC ACTIVATION SINTERING OF TUNGSTEN 67-08 M09-75292
DESIGN FOR POWDER METALLURGY 67-08 M09-75611
INVESTIGATION OF THE ELECTROLYTIC PREPARATION OF NICKEL POWDER 67-08 M09-75846
SG-100 NICKEL --HIGH PURITY NICKEL--
67-09 M09-76526
MATERIALS FOR ENGINEERS. PT. 12. ADVANCES IN POWDER METALLURGY 67-10 M09-79500
RHEOLOGICAL STUDIES OF PLASTICIZED POWDER CHARGE. PT. 3. LAWS OF EXTRUSION OF PLASTICIZED POWDER CHARGE 67-11 M09-80892
ELASTIC DEFORMATION OF ROLLS IN METAL POWDER ROLLING 67-12 M09-82206
INFLUENCE OF POROSITY ON PROPERTIES OF POWDER METALLURGY ELECTRODES OF CARBONYL
67-12 M09-82212
INVESTIGATION OF SINTERING AND PROPERTIES OF CHROMIUM-BASE COMPACTS 67-12 M09-83554
X-RAY INVESTIGATION OF DIFFUSION DURING SINTERING OF NI-CR AND FE-CR COMPACTS 67-12 M09-83555

NICKEL, POWDER METALLURGY PARTS
THE MOTION OF GASES AND LIQUIDS IN POROUS SINTERED MATERIALS 67-02 M09-62125

NICKEL, QUATERNARY SYSTEMS
THE 1200 C. ISOTHERMAL SECTION OF THE PHASE DIAGRAM OF THE QUASITERNARY SYSTEM TIC-NI-CR
67-02 M13-60578

NICKEL, RADIATION EFFECTS
INFLUENCE OF GAMMA RADIATION ON ELECTRICAL RESISTANCE OF VAPOR DEPOSITED THIN FILMS OF AG, AL, NI AND PERMALLOY 67-06 M16-72376

NICKEL, REACTIONS /CHEMICAL/
POTENTIAL-PH-DIAGRAMS FOR AG, NI AND CO AT 100 C. WITH CONSIDERATION OF THE AMMINE COMPLEXES
67-02 M14-62248
INFLUENCE OF HYDROGEN, HIGH TEMPERATURE AND HIGH PRESSURE ON MECHANICAL PROPERTIES OF METALS
67-04 M17-66345
THE MECHANISM OF THE HIGH-TEMPERATURE OXIDATION OF NI 67-04 M18-67920
ON INTERFACIAL PROPERTIES BETWEEN MOLTEN SILVER, COPPER, NICKEL AND THESE BINARY ALLOYS AND MOLTEN SLAG 67-06 M14-70789
DTA AND X-RAY STUDIES OF ELECTROLESS NICKEL
67-07 M14-73451
STRUCTURE AND GROWTH OF THIN FILMS ON METALS EXPOSED TO OXYGEN 67-09 M14-76645
EXOELECTRON EMISSION DURING OXYGEN CHEMISORPTION AT CLEAN NICKEL SURFACES 67-09 M16-77462
TRIBOCHEMICAL REACTIONS OF METALS WITH CARBON AND OXIDES OF CARBON 67-10 M14-79969
MEASURING THE SOLUBILITY OF NICKEL IN SILICATE MELTS BY THE ELECTROMOTIVE FORCE METHOD
67-11 M14-81153
INFLUENCE OF OXYGEN PRESSURE ON THE PROCESS OF REACTION OF NICKEL WITH THIS GAS AT HIGH TEMPERATURES 67-12 M18-81811

NICKEL, RECOVERY
REDUCTION ELECTROMELTING OF CONVERTER SLAGS FROM NICKEL PRODUCTION 67-02 M02-60562
INVESTIGATION OF THE RECOVERY OF METALS AFTER QUENCHING 67-02 M17-58995

NICKEL, RECRYSTALLIZATION /METALLURGICAL/
RECRYSTALLIZATION OF NICKEL POWDERS
67-01 M14-57359
PARAMETERS OF THE GROWTH KINETICS OF RECRYSTALLIZATION NUCLEI IN ZONE-REFINED IRON AND NICKEL 67-04 M14-66039
PARAMETERS OF GROWTH KINETICS OF RECRYSTALLIZATION NUCLEI IN IRON AND NICKEL REFINED BY ZONE MELTING
67-10 M14-79669

NICKEL, REFINING
LOSSES OF METALS WITH SLAG DURING CONVERTER BLOWING OF COPPER-NICKEL MATTE 67-04 M03-66964

NICKEL

ON ECONOMICAL CURRENT DENSITY IN CHLORIDE ELECTROLYSIS OF NICKEL 67-04 M03-66966
INVESTIGATION ON THE ELECTRO-REFINING OF NICKEL 67-06 M03-71106
DISTRIBUTION OF IMPURITIES IN ELECTRON BEAM MELTED INGOTS 67-07 M03-73420
ELECTROLYTIC REFINEMENT OF NICKEL USING A CHLORIDE ELECTROLYTE 67-08 M03-74485
AN EXAMINATION OF MEMBRANES FROM ION-EXCHANGE MATERIALS IN THE ELECTROLYTIC REFINEMENT OF NICKEL 67-08 M03-75088
CONVERSION OF NICKEL CARBONATE INTO METALLIC NICKEL 67-10 M03-79852

NICKEL, SINGLE CRYSTALS
SURFACE ASYMMETRY MECHANISM FOR FRACTIONAL ORDER PEAKS OBSERVED IN LEED BEAMS FROM METALS 67-10 M16-79545
MICROMAGNETIC THEORY FOR MAGNETIZATION OF SINGLE CRYSTALS 67-12 M15-82221

NICKEL, SOLUBILITY
SOLUBILITY OF HYDROGEN IN LIQUID NICKEL 67-08 M14-75406
DETERMINING THE ABSOLUTE SOLUBILITY OF OXYGEN IN MOLTEN IRON, COBALT AND NICKEL 67-09 M14-77271
THE SOLUBILITY OF OXYGEN IN LIQUID COBALT AND NICKEL 67-10 M14-80076
THE SOLUBILITY OF HYDROGEN IN MOLTEN NICKEL 67-12 M14-82027
SOLUBILITY OF HYDROGEN IN LIQUID TITANIUM AND NICKEL 67-12 M14-82165

NICKEL, SORPTION
ABSORPTION OF ELECTROLYTIC HYDROGEN BY NICKEL AND IRON-NICKEL ALLOYS 67-09 M14-76626

NICKEL, SPUTTERING
IMPACT ACTIVATED SORPTION AS A MEANS FOR GAS INCORPORATION IN SPUTTERED THIN FILMS 67-08 M14-75162

NICKEL, STRAIN HARDENING
THE MECHANISM OF THE STRENGTHENING OF METALS DURING MECHANICAL-THERMAL TREATMENT 67-12 M17-82116

NICKEL, SULFURIZATION
INVESTIGATION OF THE PARTICIPATION OF SULPHUR IN REACTION DIFFUSION ON THE FORMATION OF A SULPHIDE SCALE ON NICKEL 67-02 M18-61164

NICKEL, SURFACE PROPERTIES
EARING AND TEXTURE ON NICKEL AND NICKEL ALLOYS 67-02 M14-60874
ADSORPTION OF CARBON MONOXIDE ON THE --110-- FACE OF NICKEL 67-02 M14-62190
DETERMINATION OF ANISOTROPY AND SURFACE ENERGY OF THE FACE CENTERED CUBIC METALS NICKEL, GOLD AND SILVER 67-02 M15-59908
THE KINETICS OF SESSILE-DROP SPREADING IN REACTING METAL-METAL SYSTEMS 67-03 M15-65080
SELF-LUBRICATING COMPOSITES OF POROUS NICKEL AND NICKEL-CHROMIUM ALLOY IMPREGNATED WITH BARIUM FLUORIDE-CALCIUM FLUORIDE EUTECTIC 67-05 M17-68941
THE EFFECT OF SURFACE TREATMENT ON THE QUANTITY OF ELECTRONS ABSORBED BY THE SPECIMEN 67-07 M15-73730
THE CHEMISORPTION OF CO ON POLYCRYSTALLINE NI 67-08 M14-75044

NICKEL, TERNARY SYSTEMS
THE COPPER CORNER OF THE COPPER-NICKEL-BORON SYSTEM 67-01 M13-58046
PERMANENT MAGNET CAPABLE OF COLD WORKING 67-01 M20-57518
INTERACTIONS BETWEEN THE COMPOUND NIAL AND NIOBIUM 67-02 M13-59891
TERNARY CHEMICAL COMPOUNDS IN THE NI-TI-NB SYSTEM 67-02 M13-62183
PHASE COMPOSITION AND SOME PROPERTIES OF ALLOYS OF THE MOLYBDENUM-NICKEL-BORON SYSTEM 67-02 M13-62186
X-RAY DIFFRACTION ANALYSIS OF THE NB-NI-AL SYSTEM 67-03 M13-65793
EQUILIBRIUM OF METAL AND OXIDE SOLIDS IN THE FE-NI-O SYSTEM 67-04 M13-66968
THE NATURE AND TYPE OF SULFUR SOLUTIONS IN FE-S-NI AND FE-S-CR SYSTEMS 67-04 M14-66655
DIFFUSION IN A TERNARY SUBSTITUTIONAL SYSTEM--APPLICATION TO THE COBALT-NICKEL-CHROMIUM SYSTEM 67-04 M14-67268
SOLID-PHASE EQUILIBRIA OF WUSTITE-IRON NICKEL ALLOY 67-05 M13-68227
ON THE EQUILIBRIUM DIAGRAM OF AL-NI-TI TERNARY SYSTEM 67-05 M13-68870
INVESTIGATIONS OF THE SYSTEMS --MO, W-----FE, CO, NI---B 67-06 M13-70219
ON THE TERNARY PHASES UCOAL, UIRAL, AND UNIAL OF THE C22 --FE2P-- TYPE 67-06 M13-71623
SUPERPLASTICITY IN THE NI-FE-CR SYSTEM 67-06 M17-71073
CRYSTALLINE STRUCTURES OF COMPOUNDS ZR2NI21B6 AND ZR2CO21B6 67-07 M13-73481
MAGNETIC PROPERTIES OF FE65 --NI1-XMNX--35 TERNARY ALLOYS 67-07 M15-72407
THE STRUCTURE OF THE COPPER-NICKEL-OXYGEN SYSTEM AND ITS EFFECT ON THE BEHAVIOR OF NICKEL IN DRY COPPER REFINING 67-08 M03-75693
TERNARY INTERMETALLIC COMPOUNDS IN THE SYSTEM NI-TI-NB 67-08 M13-75959
PHASE COMPOSITION AND SOME PROPERTIES OF ALLOYS OF THE SYSTEM MOLYBDENUM-NICKEL-BORON 67-08 M13-75962
DETERMINATION OF THE COSOLUBILITY LIMIT OF NEODYMIUM AND NICKEL IN SOLID MAGNESIUM 67-09 M13-76842
RESEARCH INTO ZIRCONIUM-NICKEL-ALUMINIUM SYSTEM ALLOYS WITH HIGH ALUMINIUM CONTENT 67-09 M14-76937
EACH PHASE COMPOSITION OF TIC-NI CERMET 67-09 M14-77246
THE TERNARY SYSTEM NI-V-B 67-10 M13-79072
STUDIES ON PROPERTIES OF SOME TERNARY COPPER ALLOYS OF THE CU-MN-ZN AND CU-MN-NI SYSTEM 67-10 M17-78607
DUCTILE HIGH-TEMPERATURE NIOBIUM-NICKEL-ALUMINUM SYSTEM ALLOYS 67-10 M17-78967
DISTRIBUTION OF OXYGEN AND ALUMINUM BETWEEN METALLIC AND OXIDE PHASES IN THE CO-O-AL AND NI-O-AL SYSTEMS 67-11 M13-81154
STUDY OF THE EQUILIBRIUM DIAGRAM OF THE TINI-TIFE SYSTEM 67-11 M13-81172
STUDY OF DIFFUSION PHENOMENA IN THE TERNARY SYSTEM FE-NI-CO 67-11 M14-80147
NONMAGNETOSTRICTIVE COMPOSITIONS OF FE-NI-CO FILMS 67-11 M15-81097
CONSTITUTION DIAGRAM OF THE MG-ND-NI SYSTEM IN THE MAGNESIUM-RICH RANGE 67-12 M13-82121
THE TITANIUM-NICKEL-SILICON SYSTEM 67-12 M13-82492

NICKEL, THERMAL PROPERTIES
TRANSIENT DETERMINATIONS OF THERMAL DIFFUSIVITIES AND DISSIPATIONS OF METAL FOILS 67-02 M15-61073
LOW TEMPERATURE MAGNETIC SPECIFIC HEAT OF NICKEL 67-03 M15-65136
A METHOD OF MEASURING THERMAL DIFFUSIVITY BY HEATING OF STEP FUNCTION CHANGE 67-06 M15-71557
SPONTANEOUS HEATING OF POROUS MATERIALS DURING OXIDATION 67-08 M09-75852
A-C MEASUREMENT OF THE HEAT CAPACITY OF NICKEL NEAR ITS CRITICAL POINT 67-11 M15-80760
STUDY OF PHYSICAL PROCESSES TAKING PLACE WHILE HEATING HIGH-PURITY NICKEL 67-12 M15-83357

NICKEL, THERMODYNAMICS
HEAT CAPACITY OF COBALT IN THE VICINITY OF THE CURIE POINT 67-03 M15-65633
CALCULATION OF THE DEBYE-WALLER FACTOR FOR NICKEL 67-03 M16-65395
THERMODYNAMICS OF ELECTRONIC STRUCTURE OF NI IN LIQUID FE SOLUTION 67-04 M15-66353

NICKEL, THIN FILMS
METHOD FOR MOUNTING THIN FILMS WITHOUT SUBSTRATES 67-05 M12-68658
MAGNETIC PROPERTIES OF CHEMICALLY PRODUCED NICKEL FILMS 67-05 M15-68241
EVALUATION AND CONTROL OF THE MAGNETIC PROPERTIES OF CONTINUOUSLY PLATED ELECTROLESS NICKEL-COBALT-PHOSPHORUS MAGNETIC TAPE 67-07 M12-74125
THE STRUCTURE AND ORIENTATION OF CRYSTALS IN DEPOSITS OF METALS ON MICA 67-08 M14-75368
THE ELECTRODEPOSITION OF THIN FE-NI FILMS 67-10 M12-79893
CHEMISORPTION OF OXYGEN AND HYDROGEN ON NICKEL FILMS--RECONSTITUTION OF THE ADSORBATE-ADSORBENT INTERFACE 67-10 M14-79552
MAGNETIC ANISOTROPY IN FERROMAGNETIC THIN FILMS 67-10 M15-78496
INVESTIGATION OF MAGNETIZATION CURVES OF UNIAXIAL FILMS 67-10 M15-79458
INFLUENCE OF ADSORPTION OF CS, BA, TH AND CU ATOMS

AND OF AN ELECTRIC FIELD ON THE HALL EFFECT AND ELECTRIC CONDUCTIVITY OF THIN NICKEL FILMS
67-10 M15-79649
THE DEPOSITION OF ATOMS SPUTTERED IN AN ABNORMAL GLOW DISCHARGE 67-11 M16-80127
MAGNETIC PROPERTIES OF ANOMALOUS NICKEL THIN FILMS
67-12 M15-81765

NICKEL, TRANSPORT PROPERTIES
TEMPERATURE DEPENDENT STONER ENHANCEMENT FOR NICKEL ABOVE THE CURIE TEMPERATURE
67-08 M16-75830
EFFECT OF PRESSURE ON THE MOSSBAUER EFFECT OF FE57 IN NICKEL METAL 67-09 M16-77441
ELECTRON SCATTERING IN NICKEL AT LOW TEMPERATURES
67-10 M16-78732
ENERGY BANDS IN FERROMAGNETIC NICKEL
67-10 M16-78737
ELECTROMIGRATION OF HYDROGEN ISOTOPES DISSOLVED IN
67-12 M15-82729
MEASURING METHODS FOR MASS TRANSPORT
67-12 M16-82050

NICKEL, WELDING
MODERNIZED RIGGING FOR SPOT WELDING THIN PIECES
67-01 M11-57538
A MICROWELDING MACHINE FOR THE PRODUCTION OF SEMICONDUCTOR COMPONENTS 67-02 M11-61049
MODIFIED EQUIPMENT FOR THE SPOT WELDING OF THIN COMPONENTS 67-02 M11-61157
PERCUSSION WELDING OF RELAY ELEMENTS
67-03 M11-65054
ELECTRON MECHANISM OF DIFFUSION WELDING
67-04 M11-66432
QUALITY CONTROL CRITERIA FOR ACCEPTANCE TESTING OF CROSS-WIRE WELDS 67-06 M11-70007
THE ELECTRON THEORY OF DIFFUSION WELDING
67-07 M11-72691
GUIDE TO MIG WELDING PROCESSES 67-07 M11-73304
AN ANALYTICAL INVESTIGATION OF THE TEMPERATURE DISTRIBUTIONS DURING RESISTANCE WELDING
67-07 M11-74283
PLASMA ARC WELDS THIN MATERIALS FAST
67-11 M11-80524

NICKEL, X RAY ANALYSIS
X-RAY DETERMINATION OF THE ELASTIC CONSTANTS OF PURE NICKEL AND ITS ALLOYS WITH ALUMINUM
67-01 M17-57690
SPECIMEN CONTAMINATION IN ELECTRON-PROBE MICROANALYSIS AND ITS PREVENTION USING A COLD TRAP 67-04 M13-66246

NICKEL, X RAY DIFFRACTION
CORRELATION OF INTRAGRANULAR AND INTERGRANULAR DOUBLE X-RAY REFLECTIONS IN POLYCRYSTALLINE METALS 67-02 M13-59922
RELATION OF INTRA- AND INTERGRANULAR DOUBLE X-RAY REFLECTIONS IN POLYCRYSTALLINE METALS
67-07 M13-72577

NICKEL BASE ALLOYS
SEE ALSO INCONEL
MONEL
NICKEL CHROMIUM ALLOYS
CHROMAX DEF. 520 --HEAT RESISTANT ALLOY--
67-02 M01-59490
NICKEL- AND COBALT-BASE ALLOYS 67-02 M01-61900
RECENT DEVELOPMENTS IN CAST NICKEL ALLOYS FOR HIGH TEMPERATURE USE 67-02 M17-61966
RA-600 --HEAT RESISTANT ALLOYS--
67-04 M01-66329
A NICKEL-BASE ALLOY 67-05 M20-69233
HIDURON 191 CUPRO-NICKEL 67-06 M01-70558
WHERE SOVIET SUPERALLOYS STAND 67-06 M01-70721
UDIMET M-252 --HIGH TEMPERATURE ALLOY--
67-07 M01-73154
CORROSION RESISTANT MATERIALS IN ACYLATING HYDROLYZING MEDIA IN THE PRODUCTION OF CELLULOSE ACETOBUTYRATE 67-07 M18-72872
CM-R 41 --HIGH TEMPERATURE ALLOY--
67-11 M01-81249

NICKEL BASE ALLOYS, ADHESION
ADHERENCE AND WETTABILITY OF NICKEL, NICKEL-TITANIUM ALLOYS, AND NICKEL-CHROMIUM ALLOYS TO SAPPHIRE
67-09 M12-77717

NICKEL BASE ALLOYS, ATOMIC PROPERTIES
NMR STUDIES OF NI-PD AND NI-RU ALLOYS
67-07 M15-73992
PHOTOEMISSION INVESTIGATION OF THE BAND STRUCTURE OF FERROMAGNETIC NI-AL ALLOYS
67-10 M16-78740
STUDY OF THE CHANGE OF THE ELECTRONIC STRUCTURE OF NICKEL AND ITS ALLOYS WITH GA AND GE IN DEFORMATION BY THE POSITRON-ELECTRON ANNIHILATION METHOD 67-12 M16-82798

NICKEL BASE ALLOYS, ATOMIC STRUCTURE
STUDY OF THE CHANGE IN ELECTRON STRUCTURE OF NI AND ITS ALLOYS WITH GA AND GE DURING DEFORMATION BY THE METHOD OF ELECTRON-POSITRON ANNIHILATION
67-06 M16-71477
X-RAY K ABSORPTION EDGES OF ALLOYS. PT. 2. NICKEL-COBALT AND NICKEL-IRON SOLID SOLUTIONS
67-11 M16-80119

NICKEL BASE ALLOYS, BAND THEORY
ON THE ELECTRONIC STRUCTURE OF NICKEL-VANADIUM ALLOYS 67-01 M16-57946

NICKEL BASE ALLOYS, BOLTS
PREVENTING STRESS-CORROSION CRACKING IN THREADED FASTENERS 67-11 M18-81194

NICKEL BASE ALLOYS, BONDING
DIFFUSION-BONDING OF FORMABLE STRUCTURAL PANELS BY COMPOSITE ROLLING 67-02 M11-61841

NICKEL BASE ALLOYS, BRAZING
SELF-FLUXING SOLDER FOR BRAZING STAINLESS STEELS AND HEAT-RESISTANT ALLOYS 67-02 M11-60837
SELF-FLUXING FILLERS FOR THE BRAZING OF STAINLESS STEELS AND HEAT RESISTING ALLOYS
67-04 M11-67994
FURNACE BRAZING INCONEL 718 FOR NUCLEAR REACTORS
67-08 M11-74496
AN EXPERT LOOKS AT HIGH TEMPERATURE BRAZING
67-09 M11-76657
AN ORDERED SOLID SOLUTION IN THE CHROMIUM-MOLYBDENUM SYSTEM 67-09 M13-76935

NICKEL BASE ALLOYS, CASTING
A BREAKTHROUGH IN MAKING TURBINE COMPONENTS-- DIRECTIONAL SOLIDIFICATION AND SINGLE CRYSTALS
67-02 M06-59458
VACUUM POURING AND SOLIDIFICATION OF CREEP RESISTING ALLOY CASTINGS 67-08 M17-74554
EFFECT OF PROCESS TECHNOLOGY ON THE PRECISION CASTING OF HEAT RESISTANT CASTING ALLOYS IN VACUUM 67-09 M06-77006
UTILIZATION OF COMPUTERS IN INVESTMENT CASTING BY APPLICATION OF MATHEMATICAL/ANALYTICAL TECHNIQUES
67-09 M06-77089
TECHNOLOGY OF PRODUCING CASTINGS IN V2ZH AND VKM ALLOYS 67-12 M06-82611
CAST TURBINE BLADES 67-12 M06-82612
GAS AND POROSITY IN CASTINGS. PT. 2
67-12 M06-83351
TYPES OF REFRACTORY ALLOYS AND THE METHODS BY WHICH THEY ARE PRODUCED 67-12 M20-82393

NICKEL BASE ALLOYS, CASTINGS
NIMONIC, NOMOCAST AND OTHER HIGH-NICKEL ALLOYS FOR VERY HIGH TEMPERATURE USE 67-10 M20-78374
INVESTMENT CAST BLADES WITHSTAND 1900 F
67-10 M20-79779

NICKEL BASE ALLOYS, CATALYSTS
INVESTIGATION OF LEACHING ALUMINUM-NICKEL ALLOYS FOR THE PREPARATION OF SKELETAL CATALYSTS
67-04 M13-67844

NICKEL BASE ALLOYS, CHEMICAL ANALYSIS
DETERMINATION OF METALS IN METALS BY ATOMIC ABSORPTION SPECTROPHOTOMETRY 67-01 M19-57931
COMPLETE SPECTROCHEMICAL CONTROL IN A DIVERSIFIED FOUNDRY 67-03 M19-65009
X-RAY FLUORESCENCE ANALYSIS IN A STEEL FOUNDRY
67-03 M19-65010
THE SPECTROPHOTOMETRIC DETERMINATION OF CHROMIUM IN ANODIC POWDERS 67-05 M19-69618
QUANTOVAC ANALYSIS IN THE FOUNDRY
67-06 M19-72081

NICKEL BASE ALLOYS, CLAD METALS
COMPATIBILITY OF U-PU-FZ FUEL ALLOYS WITH POTENTIAL CLADDING MATERIALS 67-01 M14-58585
THE USE OF SPHERICAL UO2 IN A CERMET FUEL PLATE
67-06 M16-71053

NICKEL BASE ALLOYS, CLADDING
ROLLING THICK TWO-LAYER SHEETS OF STEEL/ALLOY MONEL ON A 2800 MILL 67-01 M12-58071

NICKEL BASE ALLOYS, CLEANING
TREATMENT OF METAL SURFACES IN THE AERONAUTICS INDUSTRY 67-12 M12-83381

NICKEL BASE ALLOYS, COATING
METALLIC CEMENTATION 67-01 M12-58432
PROTECTIVE DIFFUSION COATING OF NICKEL ALLOYS
67-01 M18-58711
DIFFUSION SATURATION BY BORON AND TITANIUM
67-02 M12-60072
PROTECTING METALS WITH ELECTROLESS NICKEL COATINGS
67-02 M18-61141

NICKEL BASE ALLOYS

REVIEW OF RECENT DEVELOPMENTS NICKEL-BASE AND COBALT-BASE ALLOYS 67-04 M01-67468
DEVELOPMENTS AND TENDENCIES IN PRECIOUS-METAL ELECTROPLATING. PT. 4 67-07 M12-73820
RESIDUAL STRESSES IN DIFFUSION COATED NI ALLOYS 67-07 M12-74178
BORON-BASE DIFFUSION COATINGS FOR NICKEL-CHROMIUM ALLOYS 67-07 M12-74186
STRUCTURE AND CHEMICAL COMPOSITION OF CALORIZED LAYER DEPOSITED ON NI AND ITS ALLOYS 67-07 M14-74182
FORMATION AND DEGRADATION MECHANISMS OF ALUMINIDE COATINGS ON NICKEL-BASE SUPERALLOYS 67-08 M14-75978
REGULARITIES IN COMPLEX DIFFUSION COATING OF ALLOYS 67-09 M12-77409
THERMAL DIFFUSIONAL SILICONIZING AND CHROMIUM-SILICONIZING OF ZHS6-K ALLOY 67-11 M12-81665
THE DIFFUSIONAL BERYLLIZING OF CERTAIN TECHNICAL MATERIALS 67-12 M12-82482
OXIDATION RESISTANT METALLIC COATINGS 67-12 M12-82608

NICKEL BASE ALLOYS, COATINGS

GLASS-COATED STEEL ADDS EDGE COAT 67-03 M12-65012
FORCES BINDING PLASMA COATINGS TO THE BASE 67-04 M12-67338
ELECTRODEPOSITION OF ALLOYS FROM THE SULFAMATE BATH --NICKEL-CHROMIUM AND COBALT-ZINC 67-04 M12-67428
ON RESIDUAL STRESSES IN SPRAYED COATINGS BY PLASMA-JET
INSTITUTE FOR METALS, PROCEEDINGS. TOKYO, JAPAN. 67-04 M17-67591
NICKEL-CADMIUM ALLOY DEPOSITION FROM THE SULPHATE BATH 67-05 M12-68343
HARD SURFACING BY OXYGEN-ACETYLENE FLAME, AIDED BY NI AND CO BASE ALLOYS 67-05 M12-69123
ELECTROLESS PLATING BATH FOR COBALT-NICKEL ALLOY ON CAUSTIC ALKALINE CITRATE BATH 67-06 M12-71292
REVIEW OF DEPOSITED METALLIC FILMS FOR COMPUTER APPLICATION 67-06 M12-71380
PRETREATMENT OF SUBSTRATE AND ANOMALY OF ELECTRODEPOSITION OF IRON-NICKEL ALLOY AT THE EARLY STAGE OF DEPOSITION 67-07 M12-72603
CLADDING DEVELOPMENT FOR FAST BREEDER REACTORS 67-07 M12-73465
ELECTRODEPOSITION OF THIN MAGNETIC FILMS IN THE NI-FE-CU SYSTEM 67-07 M12-73593
THE STRUCTURE OF ELECTRODEPOSITS AND CATALYSTS EXAMINED BY X-RAY DIFFRACTION TECHNIQUES 67-07 M13-74220
PLATED-WIRE MEMORIES--UNIVACS BET TO REPLACE TOROIDAL FERRITE CORES 67-08 M12-74474
PRODUCTION OF NICKEL-IRON ALLOYS 67-08 M12-74614
THE EFFECT OF ULTRASONICS ON THE ELECTRODEPOSITION OF NI-FE-MO ALLOYS 67-09 M12-76366
THE CREEP-RUPTURE STRENGTH OF MOLYBDENUM COMPOSITE CAST WITH NIMONIC 90 ALLOY 67-09 M17-77263

NICKEL BASE ALLOYS, CORROSION

HOT CORROSION OF REFRACTORY ALLOYS BY COMBUSTION DEPOSITS CONTAINING LEAD 67-01 M18-57161
RECOMMENDED DESIGN PRACTICES FOR STOPPING METAL CORROSION 67-01 M18-57232
SENSITIVITY TO STRESS CORROSION AND INTERGRANULAR ATTACK OF HIGH-NICKEL AUSTENITIC ALLOYS 67-01 M18-58513
NICKEL ALLOYS FIGHT BACK AT CORROSION 67-01 M18-58590
SOME CORROSION PROBLEMS ARISING IN HEAT EXCHANGERS IN THE CHEMICAL INDUSTRY 67-02 M18-59485
KINETICS AND MECHANISM OF OXIDATION OF BINARY NICKEL ALLOYS WITH TITANIUM 67-02 M18-60100
CHROMALUMINIZING 67-02 M18-60861
CORROSION AND COMPATIBILITY 67-02 M18-61113
MECHANISM OF OXIDATION OF DILUTE NICKEL-CHROMIUM ALLOYS 67-02 M18-61137
CORROSION RESISTANT NICKEL-BASE ALLOYS 67-02 M18-61879
HIGH-TEMPERATURE CORROSION TESTS WITH DIFFERENT HEAT RESISTANT MATERIALS IN AN OIL/GAS FIRED INDUSTRIAL BOILER 67-02 M18-62019
CORROSION IN BLAST-FURNACE GAS TURBINES. CAUSES AND REMEDIES 67-02 M18-62025
OXIDATION AND SULFIDATION CORROSION OF NICKEL BASE SUPERALLOYS 67-03 M18-65619
SENSITIZATION AND THERMAL STABILIZATION OF NI-CR-MO-FE-W ALLOY 67-03 M18-65756
CORROSION-RESISTANT FEATURES OF NICKEL AND NICKEL-BASE ALLOYS 67-04 M18-66231
CORROSION RESISTANCE OF STRUCTURAL MATERIALS IN SODIUM CHLORITE SOLUTIONS 67-04 M18-66591
NICKEL BASE HYDROCHLORIC ACID CORROSION RESISTANT ALLOY CASTING 67-04 M18-67114
ANODIC BEHAVIOR OF CU-NI ALLOYS IN AQUEOUS AMMONIUM SOLUTIONS 67-04 M18-67276
BEHAVIOR OF CR-NI ALLOYS IN MOLTEN CARBONATES 67-04 M18-67286
HIGH-TEMPERATURE CORROSION RESISTANCE OF DISPERSION-HARDENED NICKEL 67-04 M18-67841
INVESTIGATION OF CU-NI ALLOYS FOR HEAT EXCHANGERS 67-04 M18-67855
INFLUENCE OF SILICON ON THE MECHANICAL PROPERTIES OF CR-NI-MO ALLOYS AND SUSCEPTIBILITY TO INTERCRYSTALLINE CORROSION 67-04 M18-67973
THE EP548 ALLOY FOR ELECTRIC FURNACE HEATING ELEMENTS 67-06 M18-70194
HIGH TEMPERATURE CORROSION AND EVAPORATION OF HAYNES 25 AND HASTELLOY X-280 67-06 M18-70483
USE OF AMMONIA TO SUPPRESS OXYGEN PRODUCTION AND CORROSION IN BOILING-WATER REACTORS 67-06 M18-70489
HOT CORROSION OF GAS TURBINE ALLOYS 67-06 M18-70491
CORROSION-RESISTANT ALLOYS IN CHLORIDE SOLUTIONS--MATERIALS FOR SURGICAL IMPLANTS 67-06 M18-70694
DEVELOPMENT OF ACCELERATED CORROSION TESTS FOR ELECTROPLATED COATINGS 67-06 M18-71382
THE STUDY OF UNDERWATER CORROSION OF STAINLESS STEELS AND NICKEL BASE ALLOYS 67-06 M18-71502
HYDROGEN-STRESS RELATIONSHIPS 67-06 M18-72335
CONSTRUCTION MATERIALS FOR PHOS-ACID MANUFACTURE 67-06 M20-71496
CORROSION RESISTANT MATERIALS IN ACYLATING HYDROLYZING MEDIA IN THE PRODUCTION OF CELLULOSE ACETOBUTYRATE 67-07 M18-72872
IRRADIATION EFFECTS ON HIGH-TEMPERATURE REACTOR STRUCTURAL METALS 67-07 M18-73381
INFLUENCE OF HEAT TREATMENT ON INTERGRANULAR CORROSION OF KH20N45B NICKEL ALLOY 67-07 M18-73647
ANODIC BEHAVIOR OF CU-NI ALLOYS IN 0.5N NACL SOLUTION 67-07 M18-73648
MECHANISM OF STRESS CORROSION CRACKING OF FACE CENTERED CUBIC ALLOYS 67-08 M18-74409
RESISTANCE OF HEATING ELEMENTS TO ATMOSPHERES CONTAINING CARBON 67-08 M18-74973
COMPATIBILITY OF TWO NI-TI ALLOYS WITH MERCURY 67-08 M18-75776
GENERAL CORROSION OF INCONEL ALLOY 625 IN SIMULATED SUPERHEAT REACTOR ENVIRONMENT 67-08 M18-76140
BEHAVIOR OF STAINLESS STEELS IN PHOSPHORIC SOLUTIONS 67-08 M18-76293
COMPATIBILITY OF ATLAS MATERIALS WITH FLUORINE PROPELLANTS 67-09 M18-77564
CORROSION AND RADIATION EFFECTS MUST BE MINIMIZED IN FUELS FOR AUTOMOTIVE TURBINE ENGINES 67-09 M18-77569
EFFECT OF ORGANIC ACIDS ON THE ANODIC DISSOLUTION OF NICKEL ALLOYS 67-09 M18-78028
CORROSION RESISTANCE AT HIGH TEMPERATURES. PT. 17 67-09 M18-78201
CORROSION RESISTANCE AT HIGH TEMPERATURES. PT. 18 67-10 M18-78398
CORROSION OF METALS BY FLOWING LIQUID FLUORINE COMPOUNDS 67-10 M18-78475
CORROSION OF METALS BY FLOWING LIQUID FLUORINE COMPOUNDS 67-10 M18-78495
EXPERIENCE WITH GAS TURBINES IN INDUSTRIAL INSTALLATIONS 67-10 M18-78769
THE PROPERTIES OF CORROSION-RESISTANT NICKEL-MOLYBDENUM ALLOYS 67-10 M18-78943
THE BEHAVIOR OF AUSTENITIC FE-CR-NI STEELS AND OF THE NEW FEAL 40 ALLOY IN SUPERHEATED STEAM 67-11 M18-80355
THE EFFECT OF ORGANIC ACIDS ON THE ANODIC DISSOLUTION OF NICKEL ALLOYS AND STAINLESS STEELS 67-11 M18-80709
CORROSION OF METALS IN THE MOLTEN LIOH-LIF-H2O SYSTEM 67-11 M18-80827
ATMOSPHERIC EFFECTS CAN BE CORRELATED

67-11 M18-81360
HEAT TRANSFER AND CORROSION OF HIGH-NICKEL ALLOYS
67-11 M18-81554
GRAPHICAL CALCULATION OF THE CHARGE COMPOSITION OF MULTICOMPONENT SINTERED MATERIALS
67-12 M09-82201
SELECTION OF METALS FOR MARINE APPLICATIONS
67-12 M18-83226

NICKEL BASE ALLOYS, CREEP TESTS
SOME RELATIONSHIPS IN THE DEVELOPMENT OF DESTRUCTION NUCLEI UNDER THE INFLUENCE OF CREEP
67-08 M17-74964

NICKEL BASE ALLOYS, CRYSTAL DEFECTS
THE NATURE OF DEFECTS IN QUENCHED NICKEL
67-05 M13-66755

NICKEL BASE ALLOYS, CRYSTAL LATTICES
NEUTRON DIFFRACTION ANALYSIS OF A POLYCRYSTALLINE NICHROME ALLOY 67-02 M13-59927
QUENCHING OF EXCESS VACANCIES IN DEFORMED ALLOYS AND ALLOYS SUBJECTED TO THERMOMECHANICAL TREATMENT 67-02 M13-60299
ISOTHERMAL ORDERING OF NI4MO ALLOY
67-02 M14-62239
STUDY OF THE ESTABLISHMENT OF ORDER KINETICS OF IRON-NICKEL ALLOYS BY MEASURING RESISTANCE
67-02 M14-62295
STACKING FAULT ENERGY OF FACE CENTERED CUBIC METALS ESTIMATED BY ELECTRON MICROSCOPIC ANALYSIS OF DIFFRACTION CONTRAST OF FAULTED DIPOLES
67-03 M13-65216
STACKING FAULT DIPOLES IN FACE-CENTERED CUBIC METAL
67-03 M13-65376
LATTICE CONTRACTIONS IN MICROCRYSTALS OF NICKEL-IRON 67-03 M13-65830
THE RECOVERY AND ORDERING PROCESSES OF COLD WORKED NI-FE ALLOYS 67-03 M14-65386
STUDY OF STACKING FAULTS IN FACE CENTERED CUBIC NICKEL ALLOYS 67-05 M13-69455
SUPPLEMENT TO ELECTRON DIFFRACTION AT LOW TEMPERATURE RADIAL DISTRIBUTION ANALYSIS OF A FILM COMPOSED OF VERY FINE CRYSTALLITES
67-06 M13-71548
EFFECT OF HEAT TREATMENT CONDITIONS ON THE LATTICE PARAMETER OF THE SEPARATED PHASE OF NI-CR-TI-AL ALLOYS 67-06 M14-70165
BY-PASSING OF PRECIPITATES BY PRISMATIC CROSS SLIP
67-06 M14-71722
A METHOD FOR DETERMINING SHORT RANGE ORDER IN NICKEL-IRON ALLOYS WITH THE AID OF THE MOSSBAUER EFFECT 67-06 M14-71725
STUDY OF THE EFFECTS OF ATOMIC ORDERING IN TERNARY SOLID SOLUTIONS --NI3FE, MN--
67-06 M17-72374
COMPARISON OF THE ENERGY OF STACKING FAULTS WITH THE ELECTRON STRUCTURE OF THE METAL
67-07 M13-73483
THE STACKING FAULT DENSITY IN SOLID SOLUTIONS BASED ON COPPER, SILVER, NICKEL, ALUMINIUM AND LEAD 67-07 M13-73906
A NOTE ON THE STRUCTURE AND GROWTH MECHANISM OF SPHEROIDAL GRAPHITE CRYSTALS IN ALLOYS CONTAINING CARBON 67-08 M14-74432
SUBSTRUCTURES IN OXIDE SCALES ON NICKEL, COBALT, AND NICKEL-COBALT ALLOYS 67-09 M13-76620
COMPOUNDS OF EUNI5, TMNI5 AND LUNI5 AND THEIR CRYSTALLINE STRUCTURES 67-09 M13-76826
STUDY OF STRUCTURAL SINGULARITIES OF ALLOYS WITH FACE-CENTERED LATTICE. PT. 1. NI-MO SYSTEM
67-09 M13-77771
EXPERIMENTAL INVESTIGATION OF PRISMATIC CROSS-SLIP OF DISLOCATIONS IN THE VICINITY OF COHERENT, STRAINED PRECIPITATIONS 67-09 M13-77931
THE DISLOCATION MOTION IN ALLOYS WITH COHERENT, ORDERED, STRESSED PRECIPITATES
67-09 M14-76790
DIFFRACTION CONTRAST AT PLANAR INTERFACES OF LARGE COHERENT PRECIPITATES 67-10 M13-78913
FIELD ION MICROSCOPY OF NI-MO ALLOYS
67-10 M13-78916
REVEALING DISLOCATION STRUCTURE IN KHN77TYUR ALLOYS BY STAINING 67-10 M13-79905
SLIP-INDUCED DIRECTIONAL ORDER IN FE-NI ALLOYS PT. 2. EXPERIMENTAL OBSERVATIONS 67-10 M14-79165
THE INFLUENCE OF ANNEALING ON THE STRUCTURE OF POLYCRYSTALLINE PERMALLOY THIN FILMS
67-11 M14-80608
THE PROCESS OF ESTABLISHING ORDER DURING ISOTHERMAL ANNEALS IN NI-SI --7 AT.PER CENT SI-- ALLOY
67-11 M14-80737
ORDERING IN DILUTE SOLID SOLUTIONS OF ALUMINUM IN NICKEL 67-11 M14-81355

NICKEL BASE ALLOYS, CRYSTALLIZATION
PRECIPITATION OF SULFUR IMPURITIES FROM A NI-C MELT IN THE RECRYSTALLIZATION PERIOD
67-02 M14-59866

NICKEL BASE ALLOYS, CUTTING
HIGH QUALITY PLASMA ARC CUTTING AND PIERCING
67-11 M08-80408

NICKEL BASE ALLOYS, DIES
THE USE OF TEMPERATURE-RESISTANT NI-CR ALLOYS IN EXTRUSION DIES FOR THE EXTRUSION OF STEEL
67-07 M07-74109
HOT DIE FORGING STUDY AIMED AT HIKING TITANIUM POTENTIAL 67-11 M07-80768

NICKEL BASE ALLOYS, DIFFUSION
DIFFUSION IN CAST STEELS DURING HOMOGENISING ANNEALS 67-02 M14-60504
SUPERPOSITION OF THE EFFECTS OF THE FORMATION OF DIFFUSIONAL POROSITY DURING SELF-DIFFUSION AND HETERODIFFUSION 67-02 M14-62079
RADIATION-ENHANCED DIFFUSION IN METALS
67-04 M14-67315
STUDY OF MUTUAL DIFFUSION IN BINARY SYSTEMS FORMING A CONTINUOUS SERIES OF SOLID SOLUTIONS, BY LOCAL X-RAY SPECTRAL ANALYSIS. PT. 1
67-04 M14-67915
DIFFUSION AND SOLUBILITY OF HYDROGEN IN SINGLE CRYSTALS OF NICKEL AND NICKEL-VANADIUM ALLOY
67-05 M14-69675
DIFFUSION AND SOLUBILITY OF HYDROGEN IN NICKEL-MANGANESE ALLOYS 67-06 M14-71365
SOME LAWS REGARDING CHANGES IN THE PARAMETERS DO AND Q DURING DIFFUSION IN METALS AND ALLOYS
67-10 M14-79634
STUDY OF PHASE DIFFUSION IN THE NICKEL-GOLD SYSTEM DURING ISOTHERMAL ANNEALING 67-10 M14-79911
SELF-DIFFUSION OF NI IN NI-FE ALLOYS
67-11 M14-81259
THE DIFFUSION OF CARBON IN NICKEL ABOVE AND BELOW THE CURIE TEMPERATURE 67-12 M14-82969

NICKEL BASE ALLOYS, ELECTRIC DEVICES
HUNTINGTON ALLOYS FOR ELECTRONIC USES
67-08 M20-74570

NICKEL BASE ALLOYS, ELECTRICAL PROPERTIES
EFFECT OF TANTALUM CONCENTRATION ON THE LONGITUDINAL GALVANOMAGNETIC EFFECT OF ALLOYS CLOSE TO THE COMPOSITION NI3FE
67-01 M15-58062
RESISTIVITY OF ORDERED AND DISORDERED IRON-NICKEL ALLOYS 67-02 M15-62193
EFFECT OF HEAT TREATMENT AT 280 TO 460 C. ON ELECTRICAL RESISTANCE OF 50N PERMALLOY
67-04 M15-66088
EXPERIMENTS ON THE MAGNETORESISTIVITY AND HALL EFFECT IN NI AND NI ALLOYS. THE VALIDITY OF KOHLERS RULE 67-05 M15-68280
ELECTRICAL CONDUCTIVITY OF NICKEL-PHOSPHORUS FOILS
67-05 M15-69337
CHROMIC-C --ELECTRICAL RESISTANCE ALLOY--
67-06 M01-71456
RECOVERY OF ELECTRICAL RESISTANCE IN NI AND NI-CU ALLOYS AFTER QUENCHING AND DEFORMATION
67-06 M15-72361
MATTHIESSENS RULE IN SOME DILUTE NICKEL ALLOYS
67-07 M15-73311
THE DEPENDENCE OF THE ELECTRICAL CHARACTERISTICS OF NI-CR THIN FILMS ON EVAPORATION PARAMETERS
67-08 M15-75183
EFFECTS OF THE DEFORMATION OF NI-CU SYSTEM ALLOYS ON THEIR THERMAL EMF 67-09 M15-77071
EFFECT OF MAGNETIC FIELD AND EXTERNAL LOADS ON THE THERMOELECTROMOTIVE FORCES OF FE-NI ALLOYS
67-10 M15-79219

NICKEL BASE ALLOYS, ELECTRODES
A NICKEL-BASE ALLOY 67-05 M11-69235

NICKEL BASE ALLOYS, EXTRACTION
ELECTROLYTIC CODEPOSITION OF COBALT AND NICKEL FROM FLUORIDE-CHLORIDE ELECTROLYTE
67-11 M03-81465

NICKEL BASE ALLOYS, EXTRUSION
DEVELOPMENT AND STATUS OF THE APPLICATION OF THE EXTRUSION PROCESS TO STEEL 67-06 M07-70452
METALWORKING 67-11 M07-80531
APPLICATION OF HOT PRESSING FOR MANUFACTURE OF ROUND PROFILES FROM HARD ALLOYS
67-12 M08-81794

NICKEL BASE ALLOYS, FASTENERS
ADHESIVES TAKE BIG STEP AHEAD AS PARTNERS OF

FASTENERS 67-05 M11-68810

NICKEL BASE ALLOYS, FIBER METALLURGY
METALLIC FILAMENTS AND THEIR COMPOSITES 67-07 M09-73341

NICKEL BASE ALLOYS, FORGING
CONTACT STRESSES DURING HOT UPSETTING OF HEAT-PROOF STEELS AND ALLOYS 67-01 M17-57183
NEW BREAKTHROUGHS IN FORGING 67-04 M07-66284
STUDY OF THE STRESSED STATE IN THE DEFORMATION AREA DURING INGOT FORGING 67-04 M07-67042
CONTROLLING VARIATIONS IN MECHANICAL PROPERTIES OF HEAT RESISTANT ALLOYS DURING FORGING 67-06 M07-70131
IMPROVING THE TENSILE PROPERTIES OF EP543 ALLOY FORGINGS BY EFFICIENT FORGING AND STAMPING 67-08 M07-75480
FORGING TECHNOLOGY EXPANDS TO MEET MARKET NEEDS 67-11 M07-80300
CEMERON COMMISSIONS SCOTTISH FORGING PLANT 67-11 M07-80673
HOT DIE FORGING STUDY AIMED AT HIKING TITANIUM POTENTIAL 67-12 M07-81851
SUPERALLOY FORGINGS HOLD UP AS TEMPERATURES SCAR 67-12 M07-83174

NICKEL BASE ALLOYS, FORMING
SOME ASPECTS OF HIGH ENERGY RATE FORMING RESEARCH AT R. A. R. D. E. 67-05 M08-69750
THE PHOTOFABRICATION OF THIN METAL PARTS 67-09 M08-76494
HYDROFORMING HIGH TEMPERATURE ALLOYS 67-10 M08-79532

NICKEL BASE ALLOYS, GRAIN GROWTH
INCREASE IN GRAIN SIZE DURING RECRYSTALLIZATION OF HEAT RESISTANT NICKEL ALLOYS 67-05 M14-68358

NICKEL BASE ALLOYS, GRAIN SIZE
DIFFERENCE IN THE GRAIN SIZES OF NI-CR ALLOYS RESULTING FROM UNIFORM DEFORMATION 67-05 M14-68359

NICKEL BASE ALLOYS, HARDENING
LOSS OF STRENGTH DURING ANNEALING OF STRAINED ALLOYS OF NICKEL-ALUMINIUM OXIDE 67-06 M09-72327
CONTRIBUTION OF TRANSMISSION ELECTRON MICROSCOPY FOR THE STUDY OF ALLOYS 67-06 M13-71569
WORK HARDENING AND AGE HARDENING OF NICKEL CONTAINING 12 AT. PER CENT SILICON 67-06 M14-71663
PRECIPITATION-HARDENING BEHAVIOR AND MECHANICAL PROPERTIES OF HEAT-RESISTING ALLOYS CONTAINING UP TO 35 PER CENT COBALT 67-06 M17-70599
INFLUENCE OF THERMAL HARDENING ON STRUCTURE AND PROPERTIES OF HEAT RESISTANT ALLOYS 67-06 M17-72347
HARDENING MECHANISMS IN A PRECIPITATION HARDENABLE NICKEL-12.71 AT. PER CENT ALUMINIUM ALLOY 67-10 M14-78911

NICKEL BASE ALLOYS, HEAT TREATMENT
PREVENTING THE FORMATION OF CONSERTAL STRUCTURE IN KHN77TYUR ALLOY 67-01 M13-57265
FORGING AND SOLUTION TREATING ALLOY 718 67-03 M10-65977
HEAT TREATING .. A PRECISION TOOL 67-04 M10-66302
FACTORS DETERMINING STABILITY AND STRENGTH OF AUSTENITIC AND NI ALLOYS 67-04 M10-66377
NEW VACUUM FURNACE IMPROVES METAL PROPERTIES AND ELIMINATES FINISHING OPERATIONS 67-05 M10-69548
HEAT TREATMENT OF INVESTMENT-CAST STAINLESS STEELS AND HIGH TEMPERATURE ALLOYS 67-05 M10-69889
HARDENING BY ORDERED PRECIPITATES 67-05 M14-69471
A PRACTICAL VIEW OF DEFORMATION AND RECRYSTALLIZATION OF METALS 67-05 M14-69550
HARDENING TREATMENT FOR HEAT RESISTANT ALLOYS 67-05 M17-68352
VARIATION OF INTERNAL FRICTION IN HEAT RESISTANT MATERIALS HARDENED BY THERMOMECHANICAL TREATMENT 67-05 M17-68353
A NICKEL-BASE ALLOY HARDENED DURING THE PRECIPITATION OF A PHASE WITH A RHOMBIC LATTICE 67-06 M10-70925
SCALE-FREE HEATING IN A PROTECTIVE MEDIUM OF GLASS 67-07 M10-73619
HEAT TREATMENT OF ROLLING BEARINGS--THE TORRINGTON PLANT AT DARLINGTON 67-08 M10-74739
STRENGTHENING OF SILICON MONEL 67-08 M10-74997
EFFECT OF PRECIPITATION ON STRENGTHENING OF EI702 ALLOY 67-09 M10-77287
METALLOGRAPHIC STUDIES ON THE EFFECT OF MOLYBDENUM ON THE PRECIPITATION BEHAVIOR OF NICKEL-CHROMIUM AND NICKEL-CHROMIUM-COBALT ALLOYS WITH HIGH STRENGTH AT ELEVATED TEMPERATURES 67-09 M10-77850
KINETICS OF THE HARDENING AND WEAKENING OF HIGH-TEMPERATURE ALLOYS STUDIED TO SELECT THE TEMPERATURE RANGE FOR HOT PLASTIC DEFORMATION AND HEAT TREATMENT 67-09 M14-77051
HEAT TREATING NICKEL-BASE SUPERALLOYS 67-10 M10-78759
PRESENT STATE OF THE METAL ALLOYS AGING THEORY 67-10 M10-79213
FACTORS DETERMINING THE STABILITY AND STRENGTH OF AUSTENITIC AND NICKEL STEELS 67-11 M10-80979
KINETICS AND MECHANISM OF THE HIGH-TEMPERATURE SULPHURIZATION OF NICKEL-CHROMIUM ALLOYS 67-11 M14-80359
THE GROWTH RATE OF DISPERSION PARTICLES IN NICKEL. PT. 1 67-12 M09-82214
FURNACES FOR TREATING THE REFRACTORY STEELS AND SPECIAL ALLOYS USED IN THE AERONAUTICS AND SPACE INDUSTRY 67-12 M10-83377

NICKEL BASE ALLOYS, INTERNAL FRICTION
DAMPING CAPACITY OF FERROMAGNETIC ALLOYS ON NICKEL BASE 67-02 M17-61183

NICKEL BASE ALLOYS, MACHINING
THE PRODUCTION APPROACH TO EDM 67-01 M08-58525
JET WHEEL CLEANING SPEEDS GRINDING OF HIGH ALLOY MATERIALS 67-02 M08-60241
WHERE OFFHAND DOESNT MEAN CARELESS 67-02 M08-61133
TOOL SELECTION FOR TOUGH ALLOYS 67-03 M08-65492
EDM FLEXES ITS MUSCLES 67-03 M08-65666
HIGH TEMPERATURE METALS 67-03 M08-65864
TOUGH AEROSPACE JOB REQUIRES UNUSUAL EDM APPROACH 67-05 M08-68446
JET WHEEL-CLEANING FACILITATES GRINDING OF CERTAIN ALLOY MATERIALS 67-06 M08-70864
PRODUCTION EDM COMES OF AGE 67-06 M08-71450
ECM WORKS ON TURBINE BLADES 67-07 M08-72623
CUTTING PROPERTIES OF MONOLITHIC CERMET END CUTTERS 67-07 M08-74292
MACHINING TOOLS FOR HIGHLY HEAT RESISTANT MATERIALS IN AIRCRAFT POWER PLANT CONSTRUCTION 67-08 M08-74756
INFLUENCE OF SPARK MACHINING ON SURFACE LAYER STRUCTURE 67-09 M14-77413
ELECTROCHEMICAL MACHINING AIRFOIL CONTOURS OF TURBINE BLADES 67-10 M08-79511
NEW NONCONVENTIONAL MACHINING PROCESS 67-10 M08-79514
MACHINING HIGH STRENGTH STEELS AND THERMAL RESISTANT ALLOYS 67-10 M08-79516
EFFICIENT METHODS OF MACHINING NONMAGNETIC MATERIALS 67-12 M08-81995
CUTTING TOOL AND CUTTING FLUID EVALUATION. ECONOMIC CONSIDERATIONS FOR AEROSPACE MANUFACTURING 67-12 M08-82888
PRODUCIBILITY ASPECTS OF AEROSPACE PRODUCTS WITH REGARD TO MACHINABILITY 67-12 M08-82889
THERMAL COEFFICIENTS. A PROPOSED MACHINABILITY INDEX 67-12 M08-82949

NICKEL BASE ALLOYS, MAGNETIC PROPERTIES
THERMOMAGNETIC TREATMENT OF FERROMAGNETIC MATERIALS IN A ROTATING MAGNETIC FIELD. PT. 1 67-01 M10-58133
ORDER-DISORDER TRANSFORMATION AND MAGNETIC PROPERTIES IN IRON-NICKEL ALLOYS 67-01 M14-58659
EFFECTIVE BIAXIAL ANISOTROPY IN DOUBLE-LAYERED THIN MAGNETIC FILMS 67-01 M15-57111
EFFECTS OF GASES ON THE PROPERTIES OF VAPOR-DEPOSITED NI-FE FILMS 67-01 M15-57113
EFFECT OF CRYSTALLITE SIZE ON COERCIVE FORCE OF THIN FERROMAGNETIC FILMS 67-01 M15-57119
COMPOSITION AND ATOMIC ORDER DEPENDENCE OF THE MAGNETIZATION OF NI-MN ALLOYS 67-01 M15-57342
MAGNETIC PROPERTIES AND STRUCTURE OF SPRAYED FERROMAGNETIC FILMS AS DEPENDENT ON THE TEMPERATURE OF THE BASE 67-01 M15-57360
EFFECT OF THERMOMAGNETIC TREATMENT IN A TRANSVERSE FIELD ON THE MAGNETIC PROPERTIES OF ALLOYS OF THE SYSTEM FE-NI-CO 67-01 M15-57363
SOME MAGNETIC PROPERTIES OF NI-EU ALLOYS 67-01 M15-57365
INTERACTIONS BETWEEN DOMAIN WALLS IN COUPLED FILMS

67-01 M15-57567
COMPARISON OF MAGNETIC MEASUREMENTS AND THEORETICAL PREDICTIONS FOR NICKEL-IRON FILMS OVER A WIDE COMPOSITION RANGE 67-01 M15-57569
THE EFFECT OF UNIAXIAL ELASTIC STRESSES ON THE REMAGNETIZATION OF THIN PERMALLOY LAYERS 67-01 M15-57571
THE STRUCTURE AND POLARITY OF DOMAIN BOUNDARIES IN FERROMAGNETIC LAYERS 67-01 M15-57572
ON THE MAGNETIC STRUCTURE OF SOME ALLOYS OF TRANSITION METALS 67-01 M15-57576
ON PARTICULARITIES OF MAGNETIC PROPERTIES OF THIN FILMS WITH EXCHANGE ANISOTROPY 67-01 M15-57577
THE REMAGNETIZATION OF THIN FERROMAGNETIC LAYERS ALONG THE AXIS OF LIGHT MAGNETIZATION 67-01 M15-57583
CHANGE IN PARAMAGNETIC PROPERTIES AND STRUCTURE DURING ORDERING OF NIPT AND NI3PT ALLOYS 67-01 M15-57693
FIELDS IN CUBICAL TEXTURE IN THE PRESENCE OF A BIAS FIELD 67-01 M15-58671
MAGNETIC DOMAIN STRUCTURE OF NI-MN ALLOY 67-02 M15-59477
EFFECT OF THERMOMAGNETIC TREATMENT ON INTERNAL FRICTION, SHEAR MODULUS AND MAGNETIC PROPERTIES OF 66-PERMALLOY 67-02 M15-59636
EFFECT OF THE ADDITION OF VANADIUM ON THE PROPERTIES OF A NEW HIGH MAGNETIC PERMEABILITY ALLOY NIMALLOY IN THE SYSTEM OF NICKEL AND MANGANESE 67-02 M15-60267
THE ANOMALOUS CHANGES OF THE MAGNETIC PROPERTY OF A MUMETAL 67-02 M15-60278
MOBILITY AND LOSS MECHANISMS FOR DOMAIN WALL MOTION IN THIN FERROMAGNETIC FILMS 67-02 M15-61079
MAGNETIC ANISOTROPY INDUCED IN THIN FILMS AT LOW TEMPERATURES 67-02 M15-61511
EPITAXIAL INFLUENCE OF THE SUBSTRATES ON THE ANISOTROPY IN THIN ELECTRODEPOSITED NI-FE CYLINDRICAL FILMS 67-02 M15-61529
MEASURING THE LENGTH OF REMAGNETIZATION PULSES 67-02 M15-61681
RAISING THE LEVEL OF THE MAGNETIC PROPERTIES OF GRAIN-ORIENTED 50NP STEEL 67-02 M15-61878
THE EFFECT OF MAGNETIC TEXTURE ON THE PROCESSES OF MAGNETIC REVERSAL OF FERROMAGNETICS 67-02 M15-62076
FACTORS INFLUENCING THE INITIAL PERMEABILITY OF SOME ALLOYS BASED ON 80NI20FE 67-03 M15-65754
EFFECT OF ISOTHERMAL TREATMENTS ON MAGNETIC PROPERTIES OF 50N PERMALLOY 67-03 M15-65969
RELATIONSHIP OF THE COERCIVITY OF THIN FERROMAGNETIC FILMS TO CERTAIN FACTORS 67-04 M15-66482
EFFECTIVE TRIAXIAL ANISOTROPY IN TRIPLE-LAYERED THIN MAGNETIC FILMS 67-04 M15-66997
INCREMENTAL SUSCEPTIBILITY MATRICES AND THEIR MEASUREMENT IN FE-NI CUBIC TEXTURES 67-04 M15-67056
STATIC AND IMPULSE MAGNETIZATION AND MAGNETIC REVERSAL OF THIN FILMS 67-04 M15-67374
TEMPERATURE DEPENDENCE AND CRITICAL TEMPERATURE OF MAGNETIC DOMAIN STRUCTURES IN THIN FILMS 67-04 M15-67471
EFFECT OF HYDROSTATIC PRESSURE ON THE MAGNETIC MOMENT OF CU-NI ALLOYS 67-04 M15-67480
IMPURITY NUCLEUS RELAXATION IN FERROMAGNETIC METALS 67-04 M16-67487
NEUTRON DIFFRACTION STUDY OF ORDERED NI-MN ALLOYS 67-05 M14-68243
MAGNETIC CRYSTAL ENERGY CONSTANTS K1, K2, K3 OF NICKEL-IRON ALLOYS 67-05 M15-68340
THE ANTIFERROMAGNETISM IN THE UNORDERED ALLOY NI3MN 67-05 M15-68855
THE NON-PENETRATING DOMAIN STRUCTURE IN THIN PERMALLOY FILMS 67-05 M15-68856
ORIGIN OF THE PERIODIC COMPONENT OF ANISOTROPY DISPERSION IN NI-FE THIN FILMS 67-05 M15-69289
ROTATIONAL ANISOTROPY IN PERMALLOY FILMS 67-05 M15-69388
EFFECT OF HYDROSTATIC PRESSURE ON THE CURIE TEMPERATURE OF NI AND CU-NI ALLOYS 67-05 M15-69763
SUBSTRATE TEMPERATURE DEPENDENCE OF OBLIQUE-INCIDENCE ANISOTROPY IN NI-FE FILMS 67-05 M15-69764
ON THE REFINING EFFECT OF SI IN THE VACUUM MELTING OF 50NI-FE ALLOY AND ITS INFLUENCE ON THE MAGNETIC PROPERTIES 67-05 M15-69862
VACUMET HYMU 800 67-06 M01-71158
TEMPERATURE DEPENDENCE OF THE LONGITUDINAL THERMOMAGNETIC EFFECT IN AN ALLOY NEAR THE NI3FE COMPOSITION WITH MOLYBDENUM IMPURITIES 67-06 M15-70327
THE EFFECT OF PRESSURE ON THE CURIE TEMPERATURE AND RESISTIVITY OF SOME RARE-EARTH METALS AND HEUSLER ALLOYS 67-06 M15-71282
REVIEW OF WALL CREEPING IN THIN MAGNETIC FILMS 67-06 M15-71417
ELASTORESISTANCE EFFECT IN THIN FILMS OF CU-NI 67-06 M15-71546
FERROMAGNETIC RESONANCE IN A SERIES OF ALLOYS. PT. 1. BINARY ALLOYS OF NICKEL WITH COPPER, TUNGSTEN, COBALT AND CHROMIUM 67-06 M15-72086
EFFECTS OF STRAIN, PREFERRED ORIENTATION, AND LOCAL CRYSTALLITE SIZE VARIATION ON NEEL AND CROSS-TIE DOMAIN WALLS 67-07 M15-72642
OBLIQUE-INCIDENCE MAGNETIC ANISOTROPY IN CODEPOSITED ALLOY FILMS 67-07 M15-72657
VOLUME- AND TEMPERATURE DEPENDENCE OF THE ANISOTROPIC MAGNETOSTRICTION OF IRON, NICKEL AND SOME IRON-ALLOYS 67-07 M15-73303
ISOTHERMAL MAGNETIC-ANNEALING EXPERIMENTS ON SUBSTITUTIONAL ALLOYS 67-07 M15-73508
EFFECT OF SILICON ON THE LOW-INDUCTION PERMEABILITY OF 4-MOLYBDENUM PERMALLOY 67-07 M15-73532
EFFECTS OF COMPOSITION AND COOLING RATE ON THE INITIAL PERMEABILITY OF MUMETAL 67-07 M15-73534
SOME CONCEPTS CONCERNING THE NEW HIGH-PERMEABILITY 50-50 NICKEL-IRON ALLOYS 67-07 M15-73537
ANHYSTERETIC MAGNETIZATION OF NI-FE TAPE CORES 67-07 M15-73539
EFFECT OF ALUMINUM ON THE SATURATION MOMENTS OF FE-NI ALLOYS 67-07 M15-73548
HIGH-TEMPERATURE MAGNETOSTRICTION IN ALLOYS 67-07 M15-73564
MAGNETORESISTANCE OF NICKEL-COPPER SINGLE-CRYSTAL THIN FILMS 67-07 M15-73568
ORIGIN OF STRIPE DOMAINS IN NI-FE FILMS 67-07 M15-73570
LORENTZ MICROSCOPY IN POLYCRYSTALLINE NI-FE FILMS 2000-A THICK 67-07 M15-73571
ANISOTROPY CONSTANT OF 50..50 NI-CO ALLOY FILMS 67-07 M15-73572
DEPENDENCE OF MAGNETIC ANISOTROPY ON THE CRYSTAL STRUCTURE OF NI-FE THIN FILMS 67-07 M15-73576
RELAXATION PROCESSES FOR FERROMAGNETIC RESONANCE IN THIN FILMS 67-07 M15-73577
ZERO MAGNETOSTRICTION COMPOSITION OF NIFE FILMS 67-07 M15-73598
PULSE INVESTIGATIONS OF MAGNETIC MULTILAYER STORAGE ELEMENTS AND NI-FE FILMS WITH DIFFUSED CU 67-07 M15-73806
DOMAIN CLEAVAGE AND THE CLEAVAGE ANGLE OF TEMPERED PERMALLOY FILMS 67-07 M15-73807
PROPERTIES OF HIGHLY-PERMEABLE NI-FE-V ALLOYS 67-07 M15-73810
MAGNETIC SUSCEPTIBILITY OF NICKEL-SILICON ALLOYS 67-07 M15-73854
ENERGY DEPENDENCE OF MAGNETIC CHANGES INDUCED BY ELECTRON IRRADIATION 67-07 M16-73566
LONGITUDINAL MAGNETORESISTANCE EFFECT IN SINGLE CRYSTALS OF NICKEL-COPPER ALLOYS 67-08 M15-74427
THE CURIE TEMPERATURE OF CHEMICALLY-DEPOSITED NICKEL FILMS 67-08 M15-75277
TEMPERATURE DEPENDENCE OF THE THERMOMAGNETIC EFFECT IN NI-CU, NI-ZN, NI-AL, NI-SN ALLOYS 67-08 M15-75286
ELECTROLESS PLATING VARIABLES AND COERCIVE FORCE OF NICKEL-COBALT-PHOSPHORUS FILMS 67-09 M12-76997
RESEARCH INTO THE EFFECTS OF ADDING SMALL AMOUNTS OF TANTALUM AND MOLYBDENUM ON THE MAGNETIC AND ELECTRICAL PROPERTIES OF AN ALLOY WITH A COMPOSITION CLOSE TO NI3FE 67-09 M15-76561
EFFECT OF THERMOMAGNETIC TREATMENT ON THE PHYSICAL PROPERTIES OF 50N PERMALLOY 67-09 M15-77768
LARGE DISPLACEMENTS OF DOMAIN BOUNDARIES IN THIN FILMS 67-09 M15-77781
EFFECT OF UNIAXIAL STRESS ON DOMAIN STRUCTURE OF PERMALLOY FILMS 67-09 M15-77788
CRITICAL PARAMETERS OF EVAPORATED NIFE FILMS FOR FAST STORES 67-10 M15-78868

ELASTIC HYSTERESIS OF THERMOELECTROMOTIVE FORCE OF FE-NI ALLOYS 67-10 M15-79233
FERROMAGNETIC AND SPIN-WAVE RESONANCE IN THIN FILMS OF FE-NI ALLOYS 67-10 M15-79471
DEPENDENCE OF UNIDIRECTIONAL ANISOTROPY ON THE DEGREE OF ATOMIC ORDER IN A NI3MN ALLOY 67-10 M15-79837
CONTRIBUTION TO THE STUDY OF THE PHENOMENA ASSOCIATED WITH ORDER-DISORDER TRANSITIONS IN FE-NI ALLOYS 67-10 M15-80018
DISTRIBUTION OF ATOMIC MAGNETIC MOMENTS IN NI-MO, NI-W DILUTED ALLOYS 67-10 M16-79234
PARAMAGNETIC BEHAVIOR OF NICKEL-RICH NICKEL-CHROMIUM ALLOYS 67-11 M15-80125
EVIDENCE FOR DOMAIN-WALL COMPRESSIBILITY IN PERMALLOY WIRE 67-11 M15-80126
HALL EFFECT IN NI-CU ALLOYS AT LOW TEMPERATURES 67-11 M15-80725
COERCIVE FORCE AND ANISOTROPY FIELD OF MULTI-LAYER PERMALLOY FILMS 67-11 M15-81053
PERPENDICULAR ANISOTROPY IN 81NI-19FE THIN FILMS 67-11 M15-81096
COERCIVITY MEASUREMENTS OF COLD ROLLED MO-PERMALLOY BY A-C AND D-C METHODS 67-11 M15-81098
YOUNGS MODULUS AND MAGNETIC SATURATION OF ORDERED NI3FE-NI3MN ALLOYS AT HIGH TEMPERATURES 67-11 M15-81171
CHEMICAL AND MAGNETIC ORDER IN PTNI ALLOY 67-12 M15-81771
NEW RESULTS CONCERNING SOFT-MAGNETIC FE-NI ALLOYS WITH NI CONTENTS BETWEEN 50 AND 60 PER CENT --EFFECT OF CRYSTAL ORIENTATION AND ORDERING ORDCESSES-- 67-12 M15-83145
FERROMAGNETIC RESONANCE OF HE3-IRRADIATED THIN METAL FILMS 67-12 M15-83266
DOMAIN WALL ENERGY MEASUREMENTS USING NARROW PERMALLOY STRIPS 67-12 M15-83275
THE MAGNETIC PROPERTIES OF SPUTTERED NIFE FILMS 67-12 M15-83276

NICKEL BASE ALLOYS, MECHANICAL PROPERTIES
A CONTEMPORARY VIEW OF NICKEL-BASE SUPERALLOYS 67-01 M01-57934
TREATING NICKEL MELTS WITH ADDITIONS OF MAGNESIUM, CERIUM AND ZIRCONIUM 67-01 M17-57283
HIGH-SPEED, HIGH-TEMPERATURE TENSION APPARATUS FOR THE STUDY OF AEROSPACE MATERIALS 67-01 M17-57609
CRYOGENIC TENSILE PROPERTIES OF SELECTED AEROSPACE MATERIALS 67-01 M17-57621
SHEAR STRENGTH OF SEVERAL ALLOYS AT LIQUID-HYDROGEN TEMPERATURES 67-01 M17-57625
STRESS-RELAXATION PROPERTIES OF SOME NICKEL-CHROMIUM ALLOYS FOR STEAM POWER PLANT 67-02 M17-59100
THE ELEVATED-TEMPERATURE STRENGTHS AND CORROSION-FATIGUE STRENGTHS OF NICKEL-COPPER ALLOY 67-02 M17-59723
THE TEMPERATURE DEPENDENCE OF STRESS RELAXATION CRITERIA IN THE ALLOY EI437B 67-02 M17-59886
INCREASING THE HIGH TEMPERATURE STRENGTH OF METALS BY PRODUCING STABLE DISLOCATION STRUCTURES 67-02 M17-60295
THERMAL FATIGUE TESTING WITH HOLDINGS AT MAXIMUM TEMPERATURE OF CYCLE 67-02 M17-60671
ON THE DUCTILITY CRITERION IN PRESSURE DEFORMATION OF METALS 67-02 M17-60735
CERTAIN FEATURES ASSOCIATED WITH THE K-STATE IN THE ALLOYS NI-CR, NI-CR-MO AND FE-NI-CR-MO 67-02 M17-61170
STABILITY AND WORK HARDENING OF NICKEL-BASE ALLOYS IN EROSION CONDITIONS 67-02 M17-61219
EFFECT OF ALLOYING WITH MOLYBDENUM, TUNGSTEN AND OTHER ELEMENTS ON PROPERTIES AND STRUCTURE OF HEAT RESISTANT NICKEL ALLOYS IN CAST STATE 67-02 M17-61876
EFFECT OF TEMPERATURE CONDITIONS ON THE PROPERTIES AND GAS CONTENT OF A VACUUM-MELTED CHROMIUM-NICKEL ALLOY 67-02 M17-61905
STEELS AND ALLOYS FOR CRYOGENIC APPLICATIONS 67-02 M17-61982
EFFECT OF HIGH DEGREES OF DEFORMATION ON THE MECHANICAL PROPERTIES AND ELECTRICAL RESISTANCE OF NI AND NI-ALLOY WIRE 67-02 M17-62058
CREEP BEHAVIOUR OF NIMONIC AND R. R. 59 ALLOYS 67-03 M17-65173
TITANIUM ALLOYS LOOK BEST FOR MACH 3 TRANSPORT AIRCRAFT 67-03 M17-65489
STUDIES OF IRRADIATION EFFECTS ON SWEDISH STEELS 67-03 M17-65685
EFFECT OF PLASTIC DEFORMATION ON THE PROPERTIES OF OKHN40MDTYU --EP543-- ALLOY 67-03 M17-65782
STRUCTURAL TRANSFORMATION IN A NICKEL-CHROMIUM ALLOY --80 NI/20 CR-- UNDER IRRADIATION. PT. 2 67-03 M17-65856
DEVELOPMENT OF TUBE WELDING TECHNIQUES FOR CARBON STEEL FEEDWATER HEATERS 67-04 M11-67624
POSTIRRADIATION CREEP AND STRESS RUPTURE OF HASTELLOY N 67-04 M16-68120
UTILIZATION OF PLASTIC FLOW LEADING TO LONG FATIGUE LIFE IN ORDERED ALLOYS 67-04 M17-66127
INTERNAL FRICTION AND SHEAR MODULUS OF NICKEL-CHROMIUM-BASE HEAT RESISTANT ALLOYS 67-04 M17-66826
THE DEPENDENCE OF ELASTIC AND MAGNETIC PROPERTIES OF NICKEL-COPPER ALLOYS ON ANNEALING TEMPERATURE 67-04 M17-66920
THE EFFECTS OF LOAD AND TEMPERATURE CYCLING ON THE CREEP BEHAVIOR OF A NICKEL-BASE ALLOY 67-04 M17-66932
A METHOD OF DETERMINING PLASTIC ANISOTROPY OF SHEET METAL 67-04 M17-67091
EFFECT OF ALLOYING WITH MOLYBDENUM, TUNGSTEN, AND OTHER ELEMENTS ON THE PROPERTIES AND STRUCTURE OF HEAT-RESISTING NICKEL ALLOYS IN THE CAST CONDITION 67-04 M17-67695
FATIGUE STRENGTH CRITERIA OF METALS AND ALLOYS BASED ON ENERGY DISSIPATION 67-04 M17-67819
BORON-DOPING OF NIMONIC TYPE HEAT RESISTANT NICKEL ALLOYS 67-04 M17-67847
CORROSION-RESISTANT NICKEL-BASE ALLOYS 67-04 M18-67698
INFLUENCE OF THE STRUCTURE ON THE DUCTILITY AND TYPE OF RUPTURE OF KHN70VMTYU AND EI826 ALLOYS 67-05 M17-68354
FATIGUE RESISTANCE OF THE KHN77TYUR ALLOY AND RESISTANCE TO PROLONGED EXPOSURE TO HIGH TEMPERATURES 67-05 M17-68361
EFFECT OF HEAT TREATMENT ON THE RELAXATION RESISTANCE OF THE KHN77TYU ALLOY 67-05 M17-68368
TECHNIQUES FOR ELEVATED-TEMPERATURE TENSILE TESTING OF THIN SUPER ALLOYS 67-05 M17-68670
EDGEWISE COMPRESSIVE PROPERTIES OF TITANIUM AND NICKEL-BASE SANDWICH CONSTRUCTIONS AT ELEVATED TEMPERATURES 67-05 M17-68932
A NICKEL-BASE HEAT RESISTANT FORMING ALLOY 67-05 M17-69241
FATIGUE STRENGTH OF SOME HEAT RESISTANT MATERIALS IN VARYING TEMPERATURE CONDITIONS 67-05 M17-69258
CAVITY DEVELOPMENT DURING CREEP OF A DILUTE NICKEL ALLOY 67-05 M17-69565
CONCENTRATION DEPENDENCE OF THE LINEAR CREEP LIMIT OF CU-NI ALLOYS 67-05 M17-69667
CONTROL OF THE MECHANICAL PROPERTIES OF NICKEL ALLOYS BY INTERNAL OXIDATION 67-05 M18-68375
THE INFLUENCE OF THERMOMECHANICAL TREATMENTS ON THE MICROSTRUCTURE AND TENSILE PROPERTIES OF HASTELLOY X-280 67-06 M17-69934
HIGH-TEMPERATURE CREEP IN NICKEL, COPPER AND THEIR ALLOYS 67-06 M17-69981
THE EFFECT OF PRELIMINARY PLASTIC DEFORMATION ON THE RESISTANCE OF MATERIALS UNDER THE DYNAMIC EFFECT OF LEAD MELTS 67-06 M17-70328
THE RESEARCH BACKGROUND OF THE THERMALLOY GRADES OF CHROMIUM-NICKEL-IRON HEAT-RESISTING ALLOYS 67-06 M17-70529
DEVELOPMENT OF IMPROVED WROUGHT ALLOYS FOR REFORMER TUBES 67-06 M17-70535
SOME VARIATIONS IN THE ACTIVATION ENERGY FOR CREEP IN NIMONIC 80A 67-06 M17-70876
THE EFFECTS OF FRACTIONAL DEFORMATION DURING HEAT AND MECHANICAL TREATMENT ON HIGH-TEMPERATURE STRENGTH 67-06 M17-70923
THE ECONOMICALLY ALLOYED EP404 AND EP454 HIGH-TEMPERATURE ALLOYS 67-06 M17-70924
TITANIUM CARBIDE DISPERSION-STRENGTHENED NICKEL BY INTERNAL CARBURIZATION 67-06 M17-71076
THE EFFECT OF SUPERIMPOSED FATIGUE ON THE CREEP BEHAVIOR OF THE NICKEL-BASE ALLOY UDIMET 700 67-06 M17-71082
EFFECT OF ALLOYING ON THE MECHANISM OF STEADY CREEP OF NICKEL 67-06 M17-71134
HIGH-TEMPERATURE SPRINGS 67-06 M17-71231
TEMPERATURE DEPENDENCE OF THE YIELD POINT OF AN ORDERED NI3MN SOLID SOLUTION 67-06 M17-71371
ON THE HIGH-TEMPERATURE STRENGTH OF AUSTENITIC HEAT RESISTING ALLOYS 67-06 M17-71719

PROBLEMS, PROPERTIES AND SELECTION OF STRUCTURAL METALS FOR USE IN CRYOGENIC ENVIRONMENT 67-06 M17-72092
NICKLE-AND COBALT-BASE ALLOYS 67-07 M01-74253
THE CREEP AND FRACTURE PROPERTIES OF SOME NICKEL-CHROMIUM ALLOYS AT 600 C 67-07 M17-72816
THERMAL-FATIGUE TESTS INCLUDING HOLDING PERIODS AT THE MAXIMUM TEMPERATURE OF THE CYCLE 67-07 M17-73107
EFFECTS OF IRRADIATION IN AUSTENITIC STEELS AND OTHER HIGH-TEMPERATURE ALLOYS 67-07 M17-73384
THE FATIGUE OF CU-NI-FE ALLOYS 67-07 M17-73921
FRACTURE BEHAVIOUR OF TWO CREEP-RESISTANT MATERIALS SUBJECTED TO CYCLIC LOADING AT ELEVATED TEMPERATURE 67-07 M17-74086
SOME EFFECTS OF TEMPERATURE CYCLING ON THE CREEP BEHAVIOR OF A NICKEL-BASE ALLOY 67-08 M10-75137
STEADY-STATE CREEP OF DISPERSION-STRENGTHENED NICKEL 67-08 M14-75334
THE STRAIN AGING OF TERNARY ORDERED NI3FE-BASE ALLOYS AND THE RELATIONSHIP OF THEIR MECHANICAL PROPERTIES TO TEMPERATURE 67-08 M17-74892
STRUCTURE AND PROPERTIES OF THE HEAT-RESISTANT ZHS TYPE NICKEL ALLOYS RESULTING FROM QUENCHING 67-08 M17-74965
HIGH-TEMPERATURE INTERNAL FRICTION IN NI-CR ALLOYS 67-08 M17-75270
TEMPERATURE AND RATE DEPENDENCE OF STRAIN RESISTANCE OF NI-AU ALLOYS 67-08 M17-75880
THE EFFECT OF TEMPERATURE ON THE LOW-CYCLE FATIGUE BEHAVIOR OF UDIMET 700 67-08 M17-75976
THE ELASTIC CONSTANTS OF A DIRECTIONALLY-SOLIDIFIED, NICKEL-BASE SUPERALLOY, MAR M-200 67-08 M17-75982
INFLUENCE OF DIFFERENT FACTORS ON STRENGTHENING OF THE KHN35VTYU --EI787-- ALLOY 67-08 M17-76014

NICKEL BASE ALLOYS, MECHANICAL PROPERTIES
MECHANICAL PROPERTIES OF THE EI827 ALLOY AT LOW
MECHANICAL PROPERTIES OF THE EI827 ALLOY AT LOW TEMPERATURES
TEMPERATURES 67-08 M17-76021
INFLUENCE OF A SMALL ADDITION OF URANIUM ON THE MECHANICAL AND MAGNETIC PROPERTIES OF A 50 PER CENT NI-FE-NI ALLOY 67-08 M17-76233
A MODEL SYSTEM TO SIMULATE CREEP OF COMPOSITES 67-08 M17-76257
EFFECTS OF THE RATE AT WHICH KHN77TYUR --EI437B-- ALLOY IS COOLED FROM THE HOMOGENIZATION TEMPERATURE ON ITS STRUCTURE AND PROPERTIES 67-09 M17-77060
PLASTICITY CRITERIA FOR METALS AT ELEVATED TEMPERATURES 67-09 M17-77415
WORK HARDENING AND RECRYSTALLIZATION OF NICKEL ALLOYS 67-09 M17-77424
MECHANICAL PROPERTIES OF SEVERAL NICKEL-BASE ALLOYS AT ROOM AND CRYOGENIC TEMPERATURES 67-09 M17-78271
GUIDE TO SELECTION OF SUPERALLOYS 67-10 M01-78629
RADIATION EFFECTS ON SHEAR STRENGTH OF SEVERAL ALLOYS AT LIQUID HYDROGEN ENVIRONMENT 67-10 M16-78492
X-RAY INVESTIGATION OF THE EARLY STAGE OF CREEP 67-10 M17-78379
MECHANICAL PROPERTIES OF SEVERAL NICKEL-BASE ALLOYS AT ROOM AND CRYOGENIC TEMPERATURES 67-10 M17-78490
THE STRUCTURE AND PROPERTIES OF EI437B ALLOY MELTED IN A VACUUM INDUCTION FURNACE 67-10 M17-78932
EFFECTS OF HIGH-TEMPERATURE HEAT AND MECHANICAL TREATMENT, WITH LOW DEFORMATION RATES, ON THE HIGH-TEMPERATURE STRENGTH OF KHN77TYUR ALLOY 67-10 M17-78968
EFFECT OF VARIATIONS IN COMPOSITION AND THERMAL TREATMENT ON CAST NICKEL-RICH ALLOY MC. 102 67-10 M17-79031
INTERNAL FRICTION IN IRON-NICKEL HIGH-TEMPERATURE HARD ALLOYS 67-10 M17-79745
LOW-CARBON 713 LC ALLOY 67-10 M17-79934
NICKEL- AND COBALT-BASE ALLOYS 67-11 M01-80530
AN INTERPRETATION OF THE EFFECTS OF STRESS AND TEMPERATURE ON THE CREEP PROPERTIES OF A NICKEL-BASE SUPERALLOY 67-11 M17-80103
HIGH-TEMPERATURE PROPERTIES OF STEELS--AN INTRODUCTION 67-11 M17-80251
A METHOD OF INVESTIGATING LOW-CYCLE THERMAL FATIGUE 67-11 M17-80415
TENSILE AND FATIGUE PROPERTIES OF ALLOY 718 AT CRYOGENIC TEMPERATURES 67-11 M17-80520
EFFECT OF BORON ON THE STRUCTURE AND MECHANICAL PROPERTIES OF NICKEL 67-11 M17-81167
THE MECHANISMS OF TERTIARY CREEP IN FACE CENTERED CUBIC METALS 67-11 M17-81267
THE EFFECT OF UNIDIRECTIONAL SOLIDIFICATION ON THE PROPERTIES OF CAST NICKEL-BASE SUPERALLOYS 67-11 M17-81335
TENSILE AND CREEP PROPERTIES OF SINGLE CRYSTALS OF THE NICKEL-BASE SUPERALLOY MAR-M200 67-11 M17-81344
CREEP OF ALLOYS OF THE NICKEL-COPPER SYSTEM AT DIFFERENT TEMPERATURE AND STRESSES 67-11 M17-81423
VELOCITY KINETICS OF FRACTURE CENTERS IN NICKEL ALLOYS DURING CREEP 67-11 M17-81425
THERMAL STABILITY OF LATTICE DEFECTS IN NICKEL AND ITS SOLID SOLUTIONS 67-11 M17-81426
THE KINETICS OF THE RECOVERY OF CREEP PROPERTIES DURING ANNEALING OF NIMONIC 80A AFTER CREEP AT 750 C 67-11 M17-81526
THE METALLURGY OF ALLOY 718 67-12 M01-83246
CHEMICALLY RESISTANT STEELS AND ALLOYS. PRESENT STATE AND DEVELOPMENT 67-12 M01-83287
PLASTICITY OF FE-NI ALLOYS 67-12 M17-81714
KINETICS OF STRUCTURAL TRANSFORMATIONS AND FAILURE OF HEAT RESISTANT ALLOYS AT CREEP 67-12 M17-81833
SHORT DURATION CREEP AND RELAXATION OF HIGH-TEMPERATURE ALLOYS 67-12 M17-82158
BEHAVIOR OF ORDERING ALLOYS UNDER VARIOUS STRAIN CONDITIONS 67-12 M17-82343
THE EFFECT OF THERMOMECHANICAL TREATMENTS ON THE ELASTIC STORED ENERGY IN TD NICKEL 67-12 M17-82956
THE FATIGUE AND TENSILE FRACTURE OF TD-NICKEL 67-12 M17-82972
AN X-RAY STUDY OF THE INFLUENCE OF STACKING FAULT ENERGY ON THE FATIGUE BEHAVIOR OF NICKEL-COBALT ALLOYS 67-12 M17-83069
INFLUENCE OF DEFORMATION RATES ON DUCTILITY OF SOME STEELS AND ALLOYS 67-12 M17-83529

NICKEL BASE ALLOYS, MECHANICAL TESTS
APPARATUS FOR PRODUCING RAPID TEMPERATURE CHANGES DURING MECHANICAL BEHAVIOR TESTS 67-01 M17-58769

NICKEL BASE ALLOYS, MELTING
PLASMA-ARC REMELTING OF METALS AND ALLOYS 67-02 M04-62158
THE TRANSFERRED PLASMA ARC JET REMELTING OF METALS AND ALLOYS 67-04 M04-67165
CONSUMABLE REMELTING WITH THE HOPKINS PROCESS 67-06 M04-70128
THERMODYNAMIC CONSIDERATIONS ON MELTING HIGH-PURITY NICKEL AND NICKEL ALLOYS 67-10 M03-78316
THE MELTING OF NI-CR BASE ALLOYS IN A HIGH VACUUM 67-11 M03-80842
NONMETALLIC INCLUSIONS IN VACUUM INDUCTION SMELTED E1437B ALLOY 67-11 M13-81415

NICKEL BASE ALLOYS, METAL FORMING
PRODUCING MICROWIRE WITHOUT CURLS 67-12 M07-83439

NICKEL BASE ALLOYS, METAL WORKING
THE SYNTHETIC FLUID AND ITS USES IN WIRE DRAWING 67-02 M07-59005
INVESTIGATION OF PROCESSES TAKING PLACE IN N41KHTA ALLOY DURING THERMAL TREATMENT AND SHAPING 67-02 M08-58898
EXTRUDING DOWN PLUS FORGING UP GIVES HIGH HEAD-TO-SHANK RATIOS 67-05 M07-68303
HEMISPHERE FORMING SMOOTHER VIA FLUID METHOD 67-05 M07-68802
SENDZIMIR HOT AND COLD MILLS AND THEIR OPERATION IN CONJUNCTION WITH CONTINUOUS CASTING 67-06 M07-70132
BLANKING-OFF REFORMER TUBES DURING PLANT OPERATION 67-06 M07-70540
THE ASEA-SAAB FLUID-FORMING METHOD AND EQUIPMENT 67-06 M08-72050
ZERO DEFECTS DOWN TO THE WIRE 67-10 M07-78570
COLD FORMING STAINLESS AND SUPERALLOYS 67-10 M07-79758
RADIAL STRETCH FORMING ON EXPANDING MANDREL MACHINES 67-11 M08-80562
RESEARCH AND DEVELOPMENT OF HIGH-RATE FORMING

TECHNIQUES 67-12 M08-83235
RECENT REFRACTORY ALLOYS USED IN TURBOJET ENGINE CONSTRUCTION 67-12 M20-83375

NICKEL BASE ALLOYS, METALLOGRAPHY
SOME INNOVATIONS AND OBSERVATIONS ON HIGH PRESSURE DIFFRACTOMETRY 67-01 M13-58762
METHODS OF STUDYING TEXTURE IN ELECTROLYTIC DEPOSITS 67-03 M13-65105
THE INFLUENCE OF FOREIGN METAL IONS IN CHROMIC AND PHOSPHORIC ACID ELECTROLYTES ON THE FORMATION OF ETCH FIGURES ON IRON-SILICON FILMS 67-03 M13-65903
METHODS OF STUDYING TEXTURE IN ELECTROLYTIC DEPOSITS 67-07 M13-72787

NICKEL BASE ALLOYS, MICROSCOPY
METALLOGRAPHIC INVESTIGATIONS WITH THE EMISSION ELECTRON MICROSCOPE 67-03 M13-65902

NICKEL BASE ALLOYS, MICROSTRUCTURE
MICROSTRUCTURE OF PRECIPITATION STRENGTHENED NICKEL-BASE SUPERALLOYS 67-02 M13-61103
ON THE MODULATED STRUCTURE OF AGED NI-AL ALLOYS 67-02 M14-58959
A METALLOGRAPHIC STUDY OF PRECIPITATION IN A NI-12.7 AT. PER CENT AL ALLOY 67-02 M14-60642
ELECTRON MICROSCOPE STUDY OF THE DIFFERENT STAGES OF CRYSTALLIZATION OF SPHERULITES AND FLOCCULAR GRAPHITE IN THE HARD ALLOY NI-C 67-02 M14-61672
RECRYSTALLIZATION OF EI437B ALLOY 67-02 M14-61753
SOLUBILITY OF NITROGEN IN MOLTEN NICKEL AND IN THE ALLOYS OF NICKEL WITH CHROMIUM, MOLYBDENUM AND TUNGSTEN 67-02 M15-60726
DENDRITE STRUCTURE AND GRAIN SIZE OF UNDER COOLED MELTS 67-03 M14-65078
THE COARSENING OF GAMMA PRIME IN NI-AL ALLOYS 67-03 M14-65389
SCANNING ELECTRON MICROSCOPY OF GRAPHITE GROWTH IN IRON AND NICKEL ALLOYS 67-03 M14-65883
SOME MICROSTRUCTURAL OBSERVATIONS ON THE DEFORMATION AND FRACTURE CHARACTERISTICS OF A NICKEL-BASE ALLOY IN STATIC CREEP 67-04 M13-66946
SURFACE MARTENSITE ON PLASTICALLY DEFORMED AUSTENITE 67-04 M14-67755
SOLUBILITY OF HYDROGEN IN HARD ALLOYS 67-05 M13-69255
STABILITY OF HIGH-NICKEL ALLOYS IN SUPERHEATED STEAM 67-05 M14-69447
STRUCTURAL CHANGES IN THE NI-CR-TI-AL-W SYSTEM AT A TEMPERATURE OF 850 C 67-06 M14-70251
EFFECT OF HYDROSTATIC PRESSURE ON GAMMA PRIME PRECIPITATION IN RENE 41 67-06 M14-71617
ELECTRON-METALLOGRAPHIC EXAMINATION OF SOFT-MAGNETIC NICKEL-IRON ALLOYS 67-07 M13-73533
THE MICROSTRUCTURE OF AL-NI ALLOYS 67-07 M13-73801
HIGH TEMPERATURE TENSILE PROPERTIES OF NEUTRON IRRADIATED 20 CR-35 NI AUSTENITIC STEEL 67-07 M13-73853
DISTRIBUTION OF THE PRECIPITATES OF THE SECOND PHASE ALONG THE BOUNDARIES IN ALLOYED STEELS AND ALLOYS 67-08 M13-74960
THE PROBLEM OF VARIATIONS IN GRAIN SIZE IN A NIMONIC-TYPE ALLOY 67-08 M13-75023
DENDRITIC AND ZONAL HETEROGENEITIES IN THE KHN67MTYU AND KHN60MVTYU ALLOYS 67-08 M13-76011
EFFECT OF BORON AND CERIUM ON THE NATURE OF BOUNDARY DISTRIBUTION OF EXCESS CARBIDES IN COMPOSITE-ALLOYED NICKEL ALLOYS ZHS 67-08 M14-75265
RESEARCH INTO THE EFFECTS OF DEFORMATION AND ANNEALING ON THE STRUCTURE OF MONOCRYSTALLINE SPECIMENS OF E1437B ALLOY 67-10 M13-78959
THE MECHANISM OF THE FORMATION OF MIXED AND COARSENED GRAIN STRUCTURE IN EI437B ALLOY 67-11 M13-81659
A DYNAMIC THEORY OF COHERENT PRECIPITATION HARDENING WITH APPLICATION TO NICKEL-BASE-SUPER-ALLOYS 67-12 M10-82720
INVESTIGATION OF ACICULAR STRUCTURE IN TITANIUM-CONTAINING PERMANENT MAGNETS OF ALNICO 67-12 M13-82229
THE CARBIDE PHASES IN MAR-M200 67-12 M13-82562

NICKEL BASE ALLOYS, MOSSBAUER EFFECT
MOSSBAUER EFFECT IN THE INTERMETALLIC COMPOUNDS CO1.4SN AND NI1.4SN 67-06 M15-71368

NICKEL BASE ALLOYS, NEUTRON DIFFRACTION
NEUTRON DIFFRACTION STUDY OF POLYCRYSTALLINE NICHROME 67-07 M13-72582

NICKEL BASE ALLOYS, OPTICAL PROPERTIES
LUMINESCENCE OF POWDER METAL ALLOYS 67-04 M09-66258
COEFFICIENTS OF BRIGHTNESS OF SINTERED ALLOYS 67-10 M09-78990

NICKEL BASE ALLOYS, OXIDATION
OXIDATION OF A NICKEL ALLOY IN AN ATMOSPHERE CONTAINING SULPHUR 67-02 M18-61179
HIGH-TEMPERATURE OXIDATION OF NICKEL-SILICON-ALUMINIUM ALLOYS 67-02 M18-61668
INTERNAL OXIDATION OF NICKEL ALLOYS CONTAINING A SMALL AMOUNT OF CHROMIUM 67-09 M18-78255
HEAT RESISTANCE OF NICKEL ALLOY WITH OXIDE ADDITIONS 67-10 M18-78537
THE KINETICS OF THE OXIDATION PROCESS IN NICKEL-CHROMIUM-BASE ALLOYS 67-11 M18-80360
COMPOSITIONAL CHANGES IN THE UNDERLYING ALLOY DURING THE PROTECTIVE OXIDATION OF ALLOYS 67-11 M18-81587
OXIDATION MECHANISMS FOR NI-AL ALLOYS AT TEMPERATURES BETWEEN 900 AND 1300 C 67-12 M18-82742

NICKEL BASE ALLOYS, PHASE TRANSFORMATIONS
X-RAY DIFFRACTION ANALYSIS OF STRUCTURAL TRANSFORMATIONS DURING THE AGEING OF THE ALLOY ANCO-4. PT. 3. STATE AND CRYSTAL STRUCTURE OF THE PHASES FORMED DURING THE AGEING OF ANCO-4 67-01 M14-57340
PRECIPITATION HARDENING IN NI-BASE HIGH-TEMPERATURE ALLOYS 67-02 M14-61898
THE PRELIMINARY RESULTS OF STUDYING TRANSFORMATION PHENOMENA IN NICKEL-COBALT ALLOYS 67-04 M14-67756
DISSOLUTION OF THE PHASES IN THE NICKEL-GOLD SYSTEM DURING ISOTHERMAL ANNEALING 67-05 M14-68588
ON THE TELLURIDES OF NICKEL 67-05 M14-69088
STRUCTURAL TRANSFORMATIONS IN TYPE NI4MO ALLOYS 67-05 M14-69697
STRUCTURAL TRANSFORMATIONS IN NI4MO-TYPE ALLOYS 67-07 M14-74083
STUDY OF THE NI3AL-NI3TI SYSTEM 67-08 M13-75890
THE MARTENSITIC TRANSFORMATION IN TI-NI ALLOYS OF NEAR-EQUIATOMIC COMPOSITION 67-08 M14-76217
EFFECT OF DEFORMATION ON TRANSFORMATION DURING ANNEALING OF NI-MO ALLOY 67-09 M14-77295
RECRYSTALLIZATION KINETICS IN TD-NICKEL 67-09 M14-78287
STRUCTURAL TRANSFORMATIONS IN KHN77TYUR NICKEL ALLOY UNDER PROLONGED HEATING 67-12 M14-81837

NICKEL BASE ALLOYS, PHASES /STATE OF MATTER/
PHASE REACTIONS IN B-1900 NICKEL-BASE ALLOY FROM 1600 TO 1800 F 67-01 M14-58467
SEPARATION OF INTERMETALLIC PHASE AND CARBIDE PHASE IN NI-CR-TI-AL-C ALLOY 67-02 M13-62187
SOLVUS COMPOSITION FOR NICKEL-RICH NICKEL-ZIRCONIUM ALLOYS 67-05 M14-68724
THE ELECTROLYTIC ISOLATION OF NI3NB FROM NICKEL BASED ALLOYS 67-05 M19-69619
COEXISTING PHASES IN PARTIALLY ORDERED MNNI3 67-06 M13-71997
SIGMA FORMATION IN NICKEL-RICH NICKEL-COBALT-CHROMIUM-ALUMINUM-TITANIUM-CARBON ALLOYS AT 1650 F 67-06 M14-69932
THE STRUCTURE OF THE GAMMA PRIME-PHASE IN NICKEL-BASE SUPERALLOYS 67-06 M14-71427
THE FORMATION OF COHERENT ORDERED PRECIPITATES IN NI-CR-AL-ALLOY 67-06 M14-71857
CONDITIONS FOR THE EXISTENCE OF A NITRIDE PHASE IN NICKEL ALLOYS CONTAINING TITANIUM, ZIRCONIUM AND ALUMINUM 67-08 M13-74339
SELECTIVE ISOLATION OF INTERMETALLIC AND CARBIDE PHASES PRESENT IN A NI-CR-TI-AL-C ALLOY 67-08 M13-75963
PHASE ANALYSIS OF EP164 AND E1725 STEELS AND EI893 ALLOY 67-09 M13-76966
DENDRITIC LIQUATION IN MULTICOMPONENT ALLOYS 67-09 M14-77281
THE DETERMINATION OF THE EUTECTIC CONSTITUTION OF BINARY ALLOYS, NI-C AND CO-C 67-10 M13-79895
MULTICOMPONENT SUPERLATTICES OF VARIABLE COMPOSITION IN NI3FE AND NI3MN-BASE MAGNETIC ALLOYS 67-10 M13-79915
ELECTRON CONCENTRATION AND PHASE STABILITY IN LAVES

PHASES AND NI-AL ALLOYS 67-11 M14-81112
SELECTIVE SEPARATION OF INTER-METALLIC COMPOUNDS FROM MULTI-COMPONENT THREE-PHASE ALLOYS 67-12 M14-82119
SEPARATION OF THE INTERMETALLIDE PHASE NI3AL FROM A NI-CR-AL ALLOY 67-12 M14-82169

NICKEL BASE ALLOYS, PHYSICAL PROPERTIES
EFFECT OF VARIOUS ELEMENTS ON THE GAS SATURATION OF NICKEL AND ITS ALLOYS 67-02 M14-61555
DISSOLUTION OF THE PHASES IN THE NICKEL-GOLD SYSTEM DURING ISOTHERMAL ANNEALING 67-04 M14-66391
SOME CHARACTERISTICS OF THE ELECTRICAL RESISTIVITY OF NICKEL-CHROMIUM ALLOYS WITH A LOW CONTENT OF CHROMIUM 67-04 M15-67157
IMPROVING THE MAGNETIC PROPERTIES OF 50NP TEXTURED ALLOY 67-04 M15-67697
AIRCRAFT JET TURBINE BLADES INVESTIGATED BY THE INTERNAL FRICTION METHOD 67-04 M15-67858
EFFECT OF PLASTIC DEFORMATION ON PHYSICAL PROPERTIES OF TI-ALLOYED FE-NI INVARS 67-04 M15-67925
INFLUENCE OF TITANIUM ON PHYSICAL PROPERTIES OF IRON-NICKEL ALLOYS 67-04 M17-66089
STUDY OF ENERGY DISSIPATION DURING VIBRATIONS IN HEAT RESISTANT ALLOYS AT HIGH TEMPERATURES 67-04 M17-66856
DETERMINATION OF THE ANTIPHASE DOMAIN SURFACE ENERGY OF COHERENT ORDERED PRECIPITATES IN THE ABSENCE OF INTERFACE STRESSES AND CHEMICAL INTERACTIONS 67-05 M15-69334
PROPERTIES OF ALLOYED NI-BE ALLOYS. 67-08 M17-74984
STUDY OF CERTAIN PHYSICAL PROPERTIES OF NI3AL-NI3NB ALLOYS 67-09 M15-77292
NIMONIC, NIMOCAST AND OTHER HIGH-NICKEL ALLOYS FOR VERY HIGH-TEMPERATURE USE 67-10 M20-78468
DENSITIES AND SURFACE PROPERTIES OF IRON-COBALT-NICKEL MELTS AT 1550 C 67-11 M15-81449
X-RAY STUDIES ON THE THERMAL EXPANSION OF COPPER-NICKEL ALLOYS 67-12 M15-81734
APPARATUS FOR TESTING THE THERMAL CONDUCTIVITY OF METALS 67-12 M19-83209

NICKEL BASE ALLOYS, PIPELINES
ENGINEERING STUDIES SHOW POSSIBILITIES FOR LNG PIPELINE 67-11 M20-80513

NICKEL BASE ALLOYS, POWDER METALLURGY
POWDER ALLOYS OFFER HIGH PRECISION 67-02 M09-59001
INVESTIGATION OF CERMETS OF NICKEL-BORON NITRIDE COMPOSITION 67-04 M09-66256
INVESTIGATION OF PROPERTIES OF EXTRUDED NICKEL-ALUMINUM OXIDE ALLOYS 67-05 M09-68704
THE EXTRUSION OF METAL POWDERS 67-07 M09-73867
TUNGSTEN WIRE BOLSTERS POWDER 67-07 M09-74153
HARDENING AND SOFTENING OF NICKEL ALLOYS CONTAINING ALUMINUM OXIDE 67-08 M17-76010
SINTERED NICKEL-BORON NITRIDE MATERIALS 67-10 M09-78988
SINTERED TURBINE BLADES FOR ARDUOUS TEMPERATURE AND STRESS CONDITIONS 67-10 M09-79794
ELECTROLYTICAL PRODUCTION OF COMPLEX METAL POWDER OF THE CO-NI SYSTEM 67-12 M09-82203
PROPERTIES OF EXTRUDED NICKEL-ALUMINA ALLOYS 67-12 M09-82680

NICKEL BASE ALLOYS, PRECIPITATION
BEHAVIOR OF CHANGES OF PRECIPITATE OF NI-BASE HEAT RESISTING NO. 64BC ALLOY 67-04 M14-67567

NICKEL BASE ALLOYS, RADIATION EFFECTS
INFLUENCE OF GAMMA RADIATION ON ELECTRICAL RESISTANCE OF VAPOR DEPOSITED THIN FILMS OF AG, AL, NI AND PERMALLOY 67-06 M16-72376
RADIATION EFFECTS IN NONFUEL MATERIALS 67-11 M16-80472

NICKEL BASE ALLOYS, REACTIONS /CHEMICAL/
THE DEOXIDIZING CAPACITY AND ACTIVITY OF TITANIUM IN NICKEL ALLOYS CONTAINING CHROMIUM 67-06 M03-69970
ON INTERFACIAL PROPERTIES BETWEEN MOLTEN SILVER, COPPER, NICKEL AND THESE BINARY ALLOYS AND MOLTEN SLAG 67-06 M14-70789
INFLUENCE OF MAGNETIC TRANSFORMATION ON ELECTROCHEMICAL BEHAVIOR OF NI-MO ALLOYS 67-08 M14-74790
REFRACTORY-MELT REACTIONS IN VACUUM INDUCTION MELTING OF NICKEL-BASE ALLOYS 67-10 M14-79430
EXPLOSIVE PRESSURE OF NICKEL ALLOY AEROSOLS 67-11 M15-81644

NICKEL BASE ALLOYS, RECRYSTALLIZATION /METALLURGICAL/
EFFECT OF PRECIPITATION HARDENING PHASE ON PRIMARY RECRYSTALLIZATION OF EI437B ALLOY 67-06 M14-70287

NICKEL BASE ALLOYS, REFINING
REDUCTION OF CALCIUM AND DUCTILITY OF NICKEL-CHROMIUM BASE ALLOYS 67-02 M03-58857
LIQUATION DURING SINTERING IN THE PRESENCE OF A MOLTEN PHASE WITH INCOMPLETE WETTING OF THE SOLID COMPONENT BY THE MOLTEN PHASE 67-02 M14-59559
EFFECT OF PRODUCTION METHOD ON PROPERTIES, PHASE COMPOSITION AND STRUCTURE OF KH N77TYUR ALLOY 67-02 M14-61868
INVESTIGATION OF THE RATE OF PYROMETALLURGICAL CU REFINING 67-04 M03-67075
INFLUENCE OF PRODUCTION METHOD ON PROPERTIES, PHASE COMPOSITION, AND STRUCTURE OF KHN77TYUR ALLOY 67-04 M14-67687
THE ELECTRON BEAM MELTING OF SOFT MAGNETIC FERROUS MATERIALS 67-08 M04-74444
CONSUMABLE-ARC VACUUM MELTED STEEL FOR FORGINGS 67-09 M04-76506
ELECTROFLUX REMELTING IMPROVES PROPERTIES OF INCONEL 718 67-10 M03-78634
ELECTROSLAG REMELTING AT ESC 67-11 M04-80403
REFINING AND DEGASSING METAL IN ELECTRON BEAM MELTING 67-11 M04-80855
TYPES OF REFRACTORY ALLOYS AND THE METHODS BY WHICH THEY ARE PRODUCED. PT. 2 67-12 M03-81922

NICKEL BASE ALLOYS, REINFORCEMENT
THE REINFORCEMENT OF NICKEL-BASE ALLOYS WITH HIGH-STRENGTH TUNGSTEN WIRES 67-06 M17-70955

NICKEL BASE ALLOYS, ROLLING
CALCULATING THE LENGTH OF THE ARC OF CONTACT AND DEFORMING FORCES IN COLD ROLLING OF FLAT SECTIONS 67-02 M07-61870
WORKING FORCES AND RESISTANCE TO DEFORMATION IN HOT ROLLING SOME HIGH-NICKEL ALLOYS 67-02 M07-61871
CALCULATING THE LENGTH OF THE ARC OF BITE AND THE FORCES OF DEFORMATION WHILE COLD ROLLING FLAT SECTION 67-04 M07-67689
RESISTANCE TO DEFORMATION WHILE HOT-ROLLING CERTAIN HIGH-NICKEL ALLOYS 67-04 M07-67690
ROLLING KHN67VMTYU ALLOY PLATES 67-09 M07-76976
SHEET ROLLING IN EP487 ALLOY 67-09 M07-77633
ROLLING SHEETS OF EP 487 ALLOY 67-11 M07-80921

NICKEL BASE ALLOYS, SEMICONDUCTORS
EFFECT OF MARTENSITIC TRANSFORMATION ON THE ELECTRICAL AND MAGNETIC PROPERTIES OF NITI 67-12 M15-82748

NICKEL BASE ALLOYS, SINGLE CRYSTALS
ENERGY OF MAGNETIC ANISOTROPY AND ITS RELATIONSHIP TO TEMPERATURE AND HEAT TREATMENT IN NI-CO ALLOY 67-08 M15-75257
MECHANICAL PROPERTIES OF NI-CR-TI-AL ALLOY --NIMONIC TYPE-- SINGLE CRYSTALS IN VARIOUS ALLOY STRUCTURAL STATES 67-10 M17-79230
PLASTIC DEFORMATION OF SINGLE-CRYSTAL NIAL 67-12 M17-82755

NICKEL BASE ALLOYS, SOLIDIFICATION
SOLIDIFICATION OF HIGHLY UNDERCOOLED CASTINGS 67-10 M14-79294

NICKEL BASE ALLOYS, SOLUBILITY
INTERACTION OF NITROGEN WITH TYPE KH20N80 NICKEL-CHROMIUM MELTS 67-03 M14-65960
NITROGEN SOLUBILITY AND NITRIDE FORMATION IN LIQUID NI-TI-AL ALLOYS 67-08 M14-75871
SOLUBILITY OF NITROGEN AND FORMATION CONDITIONS OF ALUMINUM AND TITANIUM NITRIDES IN KH20N80 ALLOY 67-10 M14-80077

NICKEL BASE ALLOYS, SORPTION
ABSORPTION OF ELECTROLYTIC HYDROGEN BY NICKEL AND IRON-NICKEL ALLOYS 67-09 M14-76626

NICKEL BASE ALLOYS, SPOT WELDING
NC SPOTWELDING TO RIGID SPECS 67-06 M11-71931

NICKEL BASE ALLOYS, SPRINGS /ELASTIC/
METHOD OF INCREASING THE ENDURANCE OF COMPRESSION SPRINGS 67-10 M17-78822

NICKEL BASE ALLOYS, STACKING FAULTS
INVESTIGATION OF STACKING FAULTS, DISPERSION AND COHERENT SCATTERING REGIONS AND THE MICRODEFORMATION IN CONDENSED FILMS OF PERMALLOY AND NICKEL 67-01 M13-57349

NICKEL BASE ALLOYS, SURFACE FINISHING
I/USALT BATH DESCALING AND PICKLING OF NICKEL ALLOY WIRE 67-05 M12-68671

NICKEL BASE ALLOYS

GRIT BLASTING NOZZLE FABRICATED FROM MILD TOOL STEEL PROVES SATISFACTORY 67-06 M12-70001

NICKEL BASE ALLOYS, SURFACE PROPERTIES
EARING AND TEXTURE ON NICKEL AND NICKEL ALLOYS 67-02 M14-60874
THE KINETICS OF SESSILE-DROP SPREADING IN REACTING METAL-METAL SYSTEMS 67-03 M15-65080
SELF-LUBRICATING COMPOSITES OF POROUS NICKEL AND NICKEL-CHROMIUM ALLOY IMPREGNATED WITH BARIUM FLUORIDE-CALCIUM FLUORIDE EUTECTIC 67-05 M17-68941

NICKEL BASE ALLOYS, TEMPERATURE MEASURING INSTRUMENTS
QUALITY AND THERMOELECTRIC DEVIATION OF EXISTING THERMOCOUPLES 67-01 M15-57612

NICKEL BASE ALLOYS, THERMAL PROPERTIES
TINY PARTICLES TURN METALS INTO SUPERPERFORMERS 67-01 M01-58473
HIGH-TEMPERATURE ALLOYS FOR TURBINE ENGINES ARE STEADILY IMPROVING 67-01 M20-57546
EFFECT OF THERMAL FATIGUE ON THE LIFE OF MATERIALS 67-02 M17-59641
THE SPECIFIC HEAT FROM 50 TO 700 C. OF A NOMINAL NI --16 WT PER CENT MO, 7 WT PER CENT CR, 5 WT PER CENT FE-- ALLOY 67-03 M15-65858
THE HIGH TEMPERATURE EVALUATION OF AEROSPACE MATERIALS 67-03 M17-65935
SOME PROBLEMS OF CYCLIC HEAT RESISTANCE 67-06 M17-70746
GEAR MATERIAL FOR OPERATION AT 1000 F 67-08 M17-74491
STUDY OF THERMAL EXPANSION OF ALLOYS OF THE NI3AL-NI3NB SYSTEM 67-10 M15-79833
WHERE YOU CAN USE TODAYS SUPERALLOYS 67-10 M20-78630
INFLUENCE OF THE NATURE OF OXIDES ON GROWTH RATE OF DISPERSION PARTICLES IN NICKEL. PT. 2 67-12 M09-83560
DETERMINATION OF THE THERMODYNAMIC ACTIVITY OF ALUMINIUM IN NI-AL-CR ALLOYS BY THE E. M. F. METHOD 67-12 M15-82168

NICKEL BASE ALLOYS, THERMAL STABILITY
MODERN MATERIALS FOR GAS TURBINE BLADES AND DISKS 67-05 M17-68369

NICKEL BASE ALLOYS, THERMOCOUPLES
THE STABILITY OF THE THERMO-EMF/TEMPERATURE CHARACTERISTICS OF NICKEL-BASE THERMOCOUPLES 67-08 M19-74513

NICKEL BASE ALLOYS, THERMODYNAMICS
THE EFFECT OF A THIRD COMPONENT ADDED TO NICKEL-ALUMINUM ALLOYS ON THE THERMODYNAMIC PROPERTIES OF THE GAMMA AND GAMMA-PRIME PHASE 67-06 M15-70368
CONCENTRATION DEPENDENCES OF ELASTIC CONSTANTS AND DEBYE TEMPERATURES FOR BINARY ALLOYS 67-07 M15-72404

NICKEL BASE ALLOYS, THIN FILMS
TEMPERATURE DEPENDENCE OF UNIAXIAL ANISOTROPY AND ANISOTROPY DISPERSION IN NI-FE THIN FILMS 67-02 M15-59070
ELECTRODEPOSITION OF METALS IN ULTRASONIC FIELDS 67-04 M12-66279
NUCLEATION PROCESSES ON THE EDGE OF THIN PERMALLOY FILMS 67-04 M15-67636
ELECTRON DIFFRACTION AT LOW TEMPERATURE. PT. 5. ON AMORPHOUS FILMS OF TRANSITION METALS AND ALLOYS PREPARED BY LOW-TEMPERATURE CONDENSATION 67-07 M13-73319
DOMAIN WALL CREEPING IN UNIPOLAR NANOSECOND PULSE FIELDS 67-07 M15-73808
EFFECT OF MECHANICAL STRESS ON MAGNETIC REVERSAL PROCESSES IN FERROMAGNETIC FILMS 67-08 M15-75255
ELECTRON MICROSCOPIC STUDIES ON ORIGINS OF MAGNETIZATION RIPPLES IN FERROMAGNETIC THIN FILMS 67-12 M15-81761
INFLUENCE OF RESIDUAL GAS AND VAPORIZED BASE METAL ON THE PROPERTIES OF PERMALLOY EVAPORATED COATINGS 67-12 M15-82230
TEMPERATURE DEPENDENCE OF THE FERROMAGNETIC RESONANCE LINEWIDTH IN THIN NI-FE FILMS 67-12 M15-82366

NICKEL BASE ALLOYS, TRANSPORT PROPERTIES
HALL EFFECT CLOSE TO THE CURIE POINT IN FERROMAGNETIC METALS 67-02 M15-61919
TRANSPORT OF CARBON IN SOLID SOLUTIONS WITH IRON GROUP METALS BASE 67-06 M15-72372

NICKEL BASE ALLOYS, TUBEMAKING
BIG METAL BELLOWS DUCTS FEED SATURNS S-1C BOOSTER 67-08 M20-74733

NICKEL BASE ALLOYS, TURBOJET ENGINES
MATERIALS USED IN THE MACHINING OF HIGHLY HEAT-RESISTANT MATERIALS IN COMBUSTION ENGINE CONSTRUCTION 67-02 M08-59619

NICKEL BASE ALLOYS, VACUUM METALLURGY
METALLURGICAL AND OPERATIONAL CONSIDERATIONS OF MELTING IN THE THERM-I-VAC FURNACE 67-02 M06-60225

NICKEL BASE ALLOYS, WELDING
SUBMERGED ARC WELDING OF KH25 N20S2 HEAT-RESISTANT AUSTENITIC STEEL AND KH18N35S3 ALLOY 67-01 M11-58276
WELD-QUALITY MONITOR FOR RESISTANCE WELDING 67-01 M11-58351
WELDED JOINTS BETWEEN FERRITIC AND AUSTENITIC STEELS 67-02 M11-59726
ELECTRON BEAM WELDING SOLVES PRODUCTION PROBLEM 67-02 M11-61859
SOME NOTES ON THE MANUAL ARC WELDING OF LOW-TEMPERATURE HIGH-STRENGTH STEELS 67-02 M17-60106
SPECIFY SURFACE FINISH, RESISTANCE WELDS IMPROVE 67-03 M11-65359
NEW MICROPLASMA ARC PROCESS FOR JOINING MICROSIZED PARTS 67-04 M11-66396
BORON-ALLOYED AUSTENITIC STEELS AND ALLOYS FOR WELDED STRUCTURES 67-04 M11-66811
SEVERAL USES OF ELECTRON BEAM WELDING 67-04 M11-66882
INFLUENCE OF SPECIMEN TYPE AND WELDING CONDITIONS ON RESISTANCE OF METAL TO HOT CRACKING 67-04 M11-67002
THE SUBMERGED ARC WELDING OF KH25N20S2 STEEL AND KH18N35S3 ALLOY 67-04 M11-67357
MICROSTRUCTURAL STUDIES OF RENE 41 SIMULATED WELD HEAT-AFFECTED ZONES 67-04 M11-67630
MAGNETIC FORCE WELDING TAMES EXOTICS 67-04 M11-67632
SPOTLIGHT ON ARC WELDING. PT. 30. F. ATKINSON --NOTTINGHAM--LTD 67-05 M11-69430
THE WELDING OF HIGH ALLOY MATERIALS RELEVANT TO PRESSURE STEAM-REFORMING OF NAPHTHA 67-06 M11-70537
FABRICATION OF PIGTAIL ASSEMBLIES 67-06 M11-70539
NEW LIGHT METAL FABRICATING TECHNIQUES DEVELOPED WITH NUCLEAR ENGINES 67-06 M20-71586
ELECTRON BEAM WELDING OF EI437BU ALLOY TO EI618 ALLOY 67-07 M11-72738
WELDING OF THICK SECTIONS OF HASTELLOY X FOR THE PHOEBUS-2 NOZZLE 67-07 M11-74278
APPLICATION OF A COMBINED WELDING-BRAZING PROCESS FOR WELDED STRUCTURES 67-08 M11-74377
INFLUENCE OF SPECIMEN TYPE AND WELDING CONDITIONS ON THE HOT CRACK RESISTANCE OF WELD METAL 67-08 M11-74761
AUSTENITIC STEELS AND ALLOYS, ALLOYED WITH BORON, FOR WELDED STRUCTURES 67-08 M11-75915
TRUE ALL-POSITION ELECTRODES TAKE ONE GIANT STEP 67-09 M11-76639
ELECTROSLAG WELDING OF HEAT RESISTANT AUSTENITIC EI725 --KHN35VTR-- ALLOY 67-09 M11-76844
PLASMA ARC WELDING 67-09 M11-77913
WHATS SO TOUGH ABOUT CRYOGENIC COLD 67-09 M11-77915
AGE EMBRITTLEMENT OF MULTIPASS WELDED SUPERALLOY JOINTS 67-09 M17-77953
TWO WAYS TO JOIN WIRE SPACERS TO REACTOR FUEL TUBES 67-10 M11-78625
COMPATIBILITY OF ATLAS MATERIALS WITH FLUORINE PROPELLANTS 67-10 M18-78494
SMALL TUBE UNCONFINED AREA RESISTANCE CLOSURE WELDING 67-11 M11-80409
A STUDY OF THE STRAIN-AGE CRACKING CHARACTERISTICS IN WELDED RENE 41--PHASE 1 67-11 M11-80414
JOINING 67-11 M11-80482
AUTOMATIC WELDING OF STRUCTURES IN KH18N10T STEEL AND EI602 ALLOY 67-12 M11-81917
USE OF BRAZE WELDED SPOT AND SEAM JOINTS IN STRUCTURES 67-12 M11-82250
ELECTRON BEAM WELDING OF EI437BU ALLOY TO EI618 ALLOY 67-12 M11-82317
NEW TECHNIQUES FOR MELT-THRU TEE WELDING 67-12 M11-82659
FURTHER HEAT AFFECTED ZONE STUDIES IN HEAT RESISTANT NICKEL ALLOYS 67-12 M11-82823

NICKEL BASE ALLOYS, WIRE
WHAT TO LOOK FOR IN SPRING WIRE 67-03 M17-65978

IMPROVING THE QUALITY OF NICHROME MICROWIRE
67-04 M07-66219
NICKEL BASE ALLOYS, X RAY ANALYSIS
X-RAY DETERMINATION OF THE ELASTIC CONSTANTS OF PURE NICKEL AND ITS ALLOYS WITH ALUMINUM
67-01 M17-57690
X-RAY SPECTRAL ANALYSIS OF FE-NI ALLOYS
67-02 M15-59925
X-RAY SPECTRANALYSIS OF FE-NI ALLOYS
67-07 M15-72580
X-RAY DIFFRACTION DETERMINATION OF STACKING FAULT PROBABILITY IN METALS WITH FACE-CENTERED CUBIC LATTICE
67-08 M13-75347
THEORETICAL CALCULATION OF FLUORESCENT X-RAY INTENSITIES IN FLUORESCENT X-RAY ANALYSIS
67-08 M19-75807
CORRELATION BETWEEN THE K-ABSORPTION EDGE AND OTHER PROPERTIES OF SOME NICKEL-RICH SOLID SOLUTIONS
67-12 M13-82442
X-RAY K ABSORPTION EDGES OF ALLOYS. PT. 3. COPPER-ZINC AND NICKEL-ZINC SYSTEMS 67-12 M13-83268
NICKEL CHROMIUM ALLOYS, CORROSION
ELECTROCHEMICAL STUDIES ON CORROSION RESISTANCE OF NICKEL-CHROMIUM ELECTROPLATES
67-01 M18-58236
NICKEL CHROMIUM ALLOYS, HARDENING
DISPERSION-STRENGTHENED COBALT ALLOYS
67-01 M14-58646
NICKEL CHROMIUM ALLOYS, MECHANICAL PROPERTIES
THE INTERGRANULAR STRENGTH OF NI-CR-BASE ALLOYS AND THEIR PHASE COMPOSITION 67-08 M17-75025
THE DUCTILITY OF NICKEL-CHROMIUM ALLOYS DURING PROLONGED USE 67-10 M17-79660
NICKEL CHROMIUM ALLOYS, PHYSICAL PROPERTIES
INVESTIGATION OF THE STRUCTURE OF SURFACE LAYERS AND THE THERMAL STABILITY OF CAST TURBINE BLADES IN STEADY AND NONSTEADY CONDITIONS OF HEATING
67-04 M15-66859
THE THERMAL EMF AND K-STATE OF NICKEL-CHROMIUM ALLOYS 67-10 M15-79910
NICKEL CHROMIUM ALLOYS, POWDER METALLURGY
TECHNIQUES FOR THE PRODUCTION OF CHROMIUM STEEL AND NICHROME, HARDENED BY FINE REFRACTORY OXIDES
67-08 M09-75461
NICKEL CHROMIUM MOLYBDENUM STEELS, CORROSION
THE EFFECTS OF CLO ION ON THE CORROSION BEHAVIORS OF STAINLESS STEELS IN CONCENTRATION CAUSTIC SODA SOLUTIONS 67-02 M18-59736
ANODIC POLARIZATION BEHAVIOR OF LOW ALLOY STEELS IN SULFURIC ACID SOLUTIONS 67-03 M18-65757
NICKEL CHROMIUM MOLYBDENUM STEELS, FORGING
NICKEL ALLOY STEELS FOR HEAVY FORGINGS
67-11 M01-80532
NICKEL CHROMIUM MOLYBDENUM STEELS, FORGINGS
NEW SPANISH STEELS IN FORGINGS FOR THE AUTOMOTIVE INDUSTRY 67-04 M07-67427
NICKEL CHROMIUM MOLYBDENUM STEELS, HARDENING
STRAIN AGING OF MARTENSITE TEMPERED BELOW 400 F
67-08 M14-75973
NICKEL CHROMIUM MOLYBDENUM STEELS, HEAT TREATMENT
EFFECT OF CARBON CONTENT ON THE MECHANICAL PROPERTIES OF STRUCTURAL CR-NI-MO STEEL AFTER AUSFORMING 67-04 M08-67846
NICKEL CHROMIUM MOLYBDENUM STEELS, MECHANICAL PROPERTIES
MECHANICAL PROPERTIES OF VARIOUS HEAT TREATED STRUCTURES IN THE LOW-CARBON LOW-ALLOY STEEL
67-01 M17-58247
MECHANICAL AND ELECTRON-MICROSCOPE INVESTIGATION OF TEMPERING PROCESSES IN V-CONTAINING AND V-FREE HARDENABLE STRUCTURAL STEELS 67-02 M17-59624
STUDY OF CHANGES OF INTERNAL DAMPING AND YOUNGS MODULUS IN HARDENED STEELS 67-02 M17-59716
HOW LOW CYCLE FATIGUE EMBRITTLES PRESSURE VESSEL STEELS 67-02 M17-60694
USE OF 35 NCD 16 STEEL IN AERONAUTICS
67-02 M17-61964
INFLUENCE OF CHEMICAL COMPOSITION ON THE ANISOTROPY OF THE IMPACT STRENGTH OF SOME CASE-HARDENING STEELS 67-02 M17-62065
EQUIBIAXIAL LOW-CYCLE FATIGUE PROPERTIES OF TYPICAL PRESSURE-VESSEL STEELS
67-04 M17-66233
THE ANISOTROPY COEFFICIENT OF DUCTILITY AS A FACTOR RELATED TO STEEL PURITY AND FATIGUE PROPERTIES OF FORGINGS 67-08 M17-75816
EFFECT OF THE CARBON CONTENT OF STRUCTURAL STEEL ON ITS TRANSITION TEMPERATURE 67-10 M17-78931
NICKEL CHROMIUM MOLYBDENUM STEELS, WELDING
WHEN WAS THE LAST TIME YOU THOUGHT ABOUT ELECTROSLAG WELDING 67-01 M11-58016
NICKEL CHROMIUM STEELS
SEE ALSO NICKEL CHROMIUM MOLYBDENUM STEELS
NICKEL CHROMIUM STEELS, CASTING
CASTINGS OF 30KHN2 ALLOY 67-02 M04-61228
IMPROVEMENT IN TECHNOLOGY FOR PRODUCING HOLLOW WATER-COOLED MANDRELS OF A PIERCING MILL
67-02 M07-61959
IMPROVING THE MANUFACTURE OF HOLLOW WATER-COOLED MANDRELS FOR THE SMALL AUTOMATIC PIERCING BENCH
67-04 M07-67780
NICKEL CHROMIUM STEELS, CHEMICAL ANALYSIS
RADIOCHEMICAL ANALYSIS OF BASIC ELEMENTS BY ELECTRON MICROPROBE 67-02 M19-59090
NICKEL CHROMIUM STEELS, COATING
CORUNDIZATION--A NEW PROTECTIVE METHOD FOR ANNEALING AND HARDENING VESSELS OF CHROMIUM-NICKEL STEEL AGAINST SULFURIZATION AND CARBURIZATION 67-01 M18-58721
NICKEL CHROMIUM STEELS, CORROSION
STUDY ON LOW-TEMPERATURE CORROSION IN ACTUAL HEAVY OIL-FIRED BOILERS 67-01 M18-58696
STUDY OF THE SULFIDE STRESS-CORROSION CRACKING OF HIGH STRENGTH STEEL. PT. 1. THE CORROSION PRODUCTS IN HYDROGEN SULFIDE AQUEOUS SOLUTION
67-04 M18-67422
NICKEL CHROMIUM STEELS, FORGING
THE PRINCIPAL CAUSES OF THE INCREASING USE OF DROP FORGINGS IN MODERN MACHINE CONSTRUCTION
67-04 M07-68056
NICKEL CHROMIUM STEELS, HEAT TREATMENT
DIMENSIONAL CHANGES IN HEAT TREATING OPERATIONS AND THEIR PREVENTION BY PROPER DESIGN WITH EMPHASIS ON SIMPLE HEAT TREATING METHODS 67-01 M10-58722
GRAIN REFINING DURING THE ALPHA TO GAMMA TRANSFORMATION RANGE AS A FUNCTION OF THE HEATING RATE 67-01 M14-58446
ON THE THERMOMECHANICAL TREATMENT OF STEEL
67-02 M10-60620
NITRIDING OF MACHINE PARTS MADE OF ALUMINUM-FREE STEELS 67-04 M10-67961
A HIGH-TEMPERATURE CORROSION-RESISTANT CHROMIUM-NICKEL STEEL 67-08 M10-74874
DEFORMATION OF CASE HARDENED CYLINDRICAL GEARS DURING HEAT TREATMENT 67-08 M10-76105
ON THE BEHAVIOURS OF THE PRECIPITATED SULPHIDE INCLUSIONS IN SOLID STEEL 67-10 M14-79993
NICKEL CHROMIUM STEELS, INGOTS
TEMPERATURE DISTRIBUTION ACROSS THE INGOT WHEN COOLING IN MOLD AND IN THERMOS CAR
67-01 M06-57243
NICKEL CHROMIUM STEELS, MACHINING
MACHINING EVALUATION OF HIGH-STRENGTH MARAGING STEEL 67-01 M08-58684
NICKEL CHROMIUM STEELS, MECHANICAL PROPERTIES
THE EFFECT OF CARBON ON THE PROPERTIES OF 25CR-20NI HEAT RESISTING STEEL 67-01 M17-58241
EFFECT OF DEFORMATION RATE AND TEMPERATURE ON MECHANICAL PROPERTIES OF SELECTED HIGH STRENGTH ALLOYS 67-01 M17-58682
CREEP BEHAVIOR OF TWO CHROMIUM-NICKEL-STEELS WITH 15 PER CENT CR, 35 PER CENT NI, AND VARIABLE CARBON CONTENT 67-02 M17-59088
THE PROPERTIES OF LOW-CARBON IRON-NICKEL-CHROMIUM MARTENSITES 67-02 M17-59426
THE MICROFRACTOGRAPHIC CHARACTERISTICS OF THE FRAGILITY OF REVERSIBLE TEMPERING OF STEELS
67-02 M17-60553
STRUCTURE AND PROPERTIES OF STRUCTURAL STEEL MADE BY VARIOUS METHODS 67-02 M17-61951
INFLUENCE OF SURFACE DEFECTS ON THE MECHANICAL PROPERTIES OF THIN-WALLED TUBING OF 304 STAINLESS STEEL 67-02 M17-61963
STRUCTURE AND PROPERTIES OF CONSTRUCTIONAL STEEL MELTED BY VARIOUS METHODS 67-04 M17-67782
A STUDY OF SOME OF THE PROPERTIES OF CAST CHROMIUM-NICKEL STEELS CONTAINING DIFFERENT AMOUNTS OF NICKEL 67-08 M17-75021
INFLUENCE OF DECARBURIZATION ON THE PROPERTIES OF CASE HARDENED STEEL 67-08 M17-76108
DETERMINATION OF THE STRESS DISTRIBUTION IN A CYLINDRICAL, TWO-PART LONGITUDINALLY PRESTRESSED PRESSING TOOL 67-08 M17-76299
CONTRIBUTION TO THE INVESTIGATION OF A CORRELATION BETWEEN NOTCH SENSITIVITY AND SENSITIVITY TO STRESS CORROSION IN THE PRESENCE OF HYDROGEN IN THE CASE OF CERTAIN STEELS 67-08 M18-76221

NICKEL CHROMIUM STEELS

TEMPER BRITTLENESS 67-10 M17-78608
IMPROVING THE MECHANICAL PROPERTIES OF 45KHN4 STEEL BY HIGH-TEMPERATURE HEAT AND MECHANICAL TREATMENT AND COLD DEFORMATION 67-10 M17-79737

NICKEL CHROMIUM STEELS, MELTING
PRODUCTION OF VERY PURE STEELS IN ELECTRON BEAM MULTIPLE CHAMBER FURNACES, THEIR PROPERTIES AND APPLICATIONS 67-02 M06-60048

NICKEL CHROMIUM STEELS, METAL WORKING
RECRYSTALLIZATION DURING AUSFORMING 67-06 M08-70359

NICKEL CHROMIUM STEELS, MICROSTRUCTURE
STUDY ON THE AUSTENITE GRAIN SIZE AND ITS COARSENING BEHAVIOR OF ALUMINUM KILLED STEEL 67-02 M14-60156
INFLUENCE OF CALCIUM METAL ON THE STRUCTURE AND PROPERTIES OF CAST HIGH-ALLOY CR-NI STEELS 67-02 M15-61018
MICROSTRUCTURAL CHANGES IN SURFACE LAYERS OF MACHINED MATERIALS. IN PARTICULAR, A CONTRIBUTION TO THE STUDY OF THE MORPHOLOGY OF THE WHITE LAYERS 67-08 M14-75572

NICKEL CHROMIUM STEELS, PHASE TRANSFORMATIONS
NEWER METHODS TO IMPROVE THE MECHANICAL PROPERTIES OF STEEL THROUGH DEFORMATION 67-02 M17-60506

NICKEL CHROMIUM STEELS, TURBINE BLADES
THEORY OF ALLOYING AND SELECTION OF CREEP-RESISTING STEEL COMPOSITIONS FOR HIGHLY STRESSED TURBINE BLADE CASTINGS 67-02 M14-61016

NICKEL CHROMIUM STEELS, X RAY ANALYSIS
EFFECT OF NICKEL UPON OXIDE INCLUSIONS IN CHROME-NICKEL STEELS 67-06 M13-72280

NICKEL COATINGS
SEE METAL COATINGS
NICKEL

NICKEL COMPOUNDS, BENEFICIATION
HYDROMETALLURGICAL SEPARATION OF METALLIZED COPPER-NICKEL CONVERTER MATTE 67-02 M03-60565

NICKEL COMPOUNDS, CHEMICAL ANALYSIS
FORMS OF EXISTENCE OF NICKEL IN DUMP SLAGS OF THE NICKEL INDUSTRY 67-11 M13-81632

NICKEL COMPOUNDS, CRYSTAL GROWTH
PREPARATION OF NIO SINGLE CRYSTALS BY CHEMICAL TRANSPORT 67-03 M14-65396

NICKEL COMPOUNDS, DIFFUSION
ON THE NATURE OF SHORT-CIRCUIT DIFFUSION PATHS IN NICKEL OXIDE FILMS 67-06 M14-71975

NICKEL COMPOUNDS, ELECTRICAL PROPERTIES
THE ELECTRICAL RESISTANCE ANOMALY OF NICKEL HYDRIDE AT LOW TEMPERATURES 67-07 M15-72962

NICKEL COMPOUNDS, FERRITES
RELATIONSHIP OF MAGNETIZATION SATURATION AND ELECTRICAL RESISTANCE OF A NI-ZN-CO FERRITE WITH AN INDUCED RIGHT-ANGLED HYSTERESIS LOOP TO PHASE COMPOSITION 67-04 M15-66496

NICKEL COMPOUNDS, MAGNETIC PROPERTIES
ARSENIDES OF THE TRANSITION METALS. PT. 8. SOME BINARY AND TERNARY GROUP 8 DIARSENIDES AND THEIR MAGNETIC AND ELECTRICAL PROPERTIES 67-03 M15-65945
MAGNETIC PROPERTIES OF THE IRON-GROUP METAL PHOSPHIDES 67-07 M15-73545

NICKEL COMPOUNDS, MECHANICAL PROPERTIES
EFFECT OF ATOMIC ORDERING ON STRAIN AGING OF NI2CR ALLOY 67-08 M14-75281
OXYGEN ABSORPTION AND CREEP STRENGTH OF SINTERED NICKEL ALUMINIDE 67-09 M17-78193

NICKEL COMPOUNDS, MOSSBAUER EFFECT
MOSSBAUER EFFECT OF DIVALENT FE57 IN NIO AND MNO 67-06 M16-71788

NICKEL COMPOUNDS, NUCLEAR PROPERTIES
THE RELATIONSHIP BETWEEN EMANATING POWDER AND SPECIFIC SURFACE OF FINELY DIVIDED SOLIDS AND ITS USE IN INVESTIGATING THE KINETICS OF SINTERING 67-12 M16-83196

NICKEL COMPOUNDS, OPTICAL PROPERTIES
OPTICAL CONSTANTS OF BETA-PHASE NIAL 67-11 M15-81079

NICKEL COMPOUNDS, REACTIONS /CHEMICAL/
KINETIC STUDY ON THE HYDROGEN REDUCTION OF SOME NONFERROUS METAL OXIDES 67-04 M03-67030
KINETICS OF THE REACTION OF IRON, NICKEL AND COBALT OXIDES WITH GRAPHITE 67-11 M14-81372
KINETIC REACTIONS OF CO ON DIVIDED NICKEL 67-12 M14-82695

NICKEL COMPOUNDS, REDUCTION /CHEMICAL/
ELECTRON MICROSCOPE STUDY OF THE REDUCTION OF NICKEL OXIDE BY HYDROGEN 67-12 M14-81812
THE INFLUENCE OF A THERMAL TREATMENT, UNDER VACUUM, OF NICKEL OXIDE ON THE KINETICS OF ITS REDUCTION BY HYDROGEN 67-12 M14-82232
APPLICATION OF THE GRAIN GROWTH THEORY TO THE FORMATION OF NICKEL TRICHITES 67-12 M14-83500

NICKEL COMPOUNDS, REFINING
DECOPPERING CHLORIDE NICKEL AND COBALT ELECTROLYTES BY MEANS OF ION EXCHANGE 67-04 M03-67524
THE KINETICS OF DESULFURIZATION OF NICKEL MATTE IN A FLUIDIZED BED 67-08 M02-75448
DESULFURIZATION KINETICS OF NICKEL-NICKEL SULFIDE MIXTURE IN THE FLUIDIZED BED 67-10 M03-79129

NICKEL COMPOUNDS, TRANSPORT PROPERTIES
PRESSURE EFFECTS ON CHARGE TRANSPORT IN NICKEL AND CHROMIUM OXIDES 67-09 M16-77443

NICKEL IRON, MAGNETIC PROPERTIES
CASTINGS FROM NONMAGNETIC IRON CONTAINING 2 PER CENT NI 67-04 M15-66414

NICKEL MOLYBDENUM CHROMIUM STEELS
SEE NICKEL CHROMIUM MOLYBDENUM STEELS

NICKEL MOLYBDENUM STEELS
SEE ALSO NICKEL CHROMIUM MOLYBDENUM STEELS

NICKEL MOLYBDENUM STEELS, CORROSION
SOME VIEWPOINTS ON HIGH-TEMPERATURE CORROSION WITH THE COMBUSTION OF GAS, COAL AND OIL 67-02 M18-62013

NICKEL MOLYBDENUM STEELS, HEAT TREATMENT
GRAIN REFINING DURING THE ALPHA TO GAMMA TRANSFORMATION RANGE AS A FUNCTION OF THE HEATING RATE 67-01 M14-58446

NICKEL MOLYBDENUM STEELS, MECHANICAL PROPERTIES
INFLUENCE OF SOME DEFECTS IN STEELS UPON THE FATIGUE STRENGTH 67-03 M17-65824
FRACTURE TOUGHNESS DETERMINATIONS OF A-302B AND NI-MO-V STEELS WITH VARIOUS SIZE SPECIMENS 67-04 M17-66237

NICKEL ORES, BENEFICIATION
INTENSIFIED ROASTING OF NICKEL CONCENTRATE IN A FLUIDIZED BED 67-02 M02-61605
RECENT DEVELOPMENTS IN PRESSURE-HYDROMETALLURGY 67-02 M03-61299
ON THE EXTRACTION OF NICKEL AS NICKEL CARBONYL FROM LATERITIC ORES 67-04 M03-67721
PROCESSING ARSENIC-CONTAINING NICKEL-COBALT ORES 67-06 M02-71128
STABILIZATION OF SINTER FROM OXIDIZED NICKEL ORES 67-08 M02-74881
BRIQUETTING OXIDIZED NICKEL ORES 67-10 M02-79034
FLOTATION OF COMPOSITE GRAPHITE NICKEL ORES 67-11 M02-81505

NICKEL ORES, CHEMICAL ANALYSIS
PHASE ANALYSIS BY CHEMICAL METHODS IN ORES AND MINE PRODUCTS 67-05 M19-69120

NICKEL ORES, DIFFUSION
DETERMINING DIFFUSION OF CALCIUM, IRON AND SULFUR IN SINTERED OXIDIZED NICKEL ORES 67-02 M14-60087

NICKEL ORES, MELTING
WAYS OF REPLACING COKE BY NATURAL GAS WHEN SHAFT FURNACE SMELTING OXIDIZED NICKEL ORES 67-02 M03-62217

NICKEL ORES, PELLETING
PELLETIZING AND ROASTING SULFIDIC COPPER-NICKEL CONCENTRATE MIXED WITH FINE ORE 67-02 M02-62044
KINETICS OF DRYING PELLETS FROM SULFIDIC CU-NI CONCENTRATE 67-05 M02-68226

NICKEL ORES, REDUCTION /CHEMICAL/
METHOD OF PREPARING NICKEL FROM OXIDES 67-02 M03-59592

NICKEL ORES, REFINING
TUBULAR REVOLVING HORIZONTAL FURNACE FOR REDUCING NICKEL OXIDE 67-09 M03-76870

NICKEL ORES, SMELTING
MATERIAL AND HEAT BALANCES FROM SMELTING SULFIDE COPPER-NICKEL ORES IN ELECTRIC FURNACES OF 30,000 KVA CAPACITY 67-08 M03-75087

NICKEL PLATING
HIGH-SPEED PLATING OF INDUSTRIAL NICKEL COATINGS 67-01 M12-57540
PRINCIPLE, PRACTICE AND APPLICATIONS OF CURRENTLESS NICKEL PLATING. PT. 2 67-01 M12-58011
ELECTROLESS NICKEL PLATING, BASED ON CATALYTIC NICKEL PRECIPITATION ACCORDING TO THE KANIGEN

PROCESS 67-01 M12-58391
ELECTROLESS NICKEL PLATING FROM ALKALI SOLUTIONS IN ABSENCE OF ORGANIC ADDITIONS 67-01 M12-58712
PLATED NICKEL SHAPES UP 67-01 M12-58724
THE EFFECT OF NICKEL PLATING ON THE FATIGUE STRENGTH OF CARBON STEEL 67-01 M17-58387
THROWING POWER OF NICKEL BARREL PLATING 67-02 M12-59160
MODERN DEVELOPMENTS AND TRENDS IN ELECTROPLATING 67-02 M12-59970
HEAVY NICKEL PLATING IN MECHANICAL ENGINEERING 67-02 M12-59973
DECORATIVE PLATING IN THE GERMAN MOTORCAR INDUSTRY 67-03 M12-65150
NEW PROCESS FOR ELECTROPLATING ON POLYPROPYLENE 67-03 M12-65327
NICKEL-COATED STEEL STRIP 67-03 M12-65667
ANALYSIS OF ELECTRODE REACTIONS IN THE ELECTRODEPOSITION OF NICKEL BY THE INTERRUPTER METHOD. PT. 1. EFFECTS OF ADDITION AGENTS IN THE ELECTRODEPOSITION OF NICKEL 67-03 M12-65709
THE EFFECTS OF SODIUM NAPHTHALENE SULFONATES ON THE ELECTRODEPOSITION OF NICKEL FROM NICKEL SULFATE BATH. PT. 2. EFFECTS OF ADDITION AGENTS IN THE ELECTRODEPOSITION OF NICKEL 67-03 M12-65710
EFFECTS OF ADDITION AGENTS IN THE ELECTRODEPOSITION OF NICKEL FROM NICKEL CHLORIDE BATH. PT. 3. EFFECTS OF ADDITION AGENTS IN THE ELECTRODEPOSITION OF NICKEL 67-03 M12-65711
HOW AUTO ENGINEERS ARE ATTACKING THE CORROSION PROBLEM 67-03 M18-65209
SOME EXPERIENCES WITH CHLORIDE-FREE NICKEL BATHS 67-05 M12-68489
POROSITY IN SINGLE AND MULTI-LAYER ELECTRODEPOSITS, AND ITS RELATION TO THE BASIS METAL STATE 67-05 M12-68819
THE REDUCTION OF COUMARIN IN THE ELECTRODEPOSITION OF NICKEL 67-05 M12-68821
STUDIES ON THE BEHAVIOUR OF THIOUREA IN BRIGHT NICKEL PLATING 67-05 M12-68832
INSTITUTE OF METAL FINISHING TRANSACTIONS 67-05 M12-68833
THEORY AND PRACTICE IN THE PLATING OF ABS PLASTICS. PT. 2 67-05 M12-68902
EFFECTS OF ADDITION AGENTS IN THE ELECTRODEPOSITION OF NICKEL ON COPPER SINGLE CRYSTAL --100-- SUBSTRATE 67-05 M12-69002
ADVANTAGES OF NI COATINGS 67-05 M12-69191
DECORATIVE NICKEL-CHROMIUM PLATING 67-05 M12-69482
ELECTROLESS NICKEL PLATING OF ZINC ALLOYS 67-05 M12-69831
IMPROVEMENT IN CORROSION RESISTANCE OF DECORATIVE NICKEL-CHROMIUM PLATING 67-05 M18-68417
TAPE CONTROLS PLATING AT GM 67-05 M20-68437
REFINEMENTS BOOST DIAMOND TECHNOLOGY 67-05 M20-69151
NICKEL PLATING WITHOUT ELECTRICITY 67-06 M12-71490
THE STATE OF THE ART OF ELECTROPLATED ABS AND OTHER PLASTICS 67-07 M12-72769
AN INTRODUCTION TO CHEMICAL NICKEL PLATING WITH SODIUM BOROHYDRIDE OR AMINE BORANES AS REDUCING AGENTS 67-07 M12-72770
THICK NICKEL DEPOSITS OF HIGH PURITY BY ELECTROLESS METHODS 67-07 M12-72772
DEVELOPMENTS IN NICKEL AND CHROMIUM DECORATIVE COATINGS AND IN ELECTROFORMING WITH NICKEL. PT. 1 67-07 M12-73129
INVESTIGATION OF INTERNAL STRESSES IN SN-NI COATINGS 67-07 M12-73652
NICKEL ELECTROPLATED NONCONDUCTIVE MATERIALS FOR PROTECTION FROM RAIN EROSION 67-07 M12-74121
ELECTROLESS NICKEL DEPOSITED AT CONTROLLED PH--MECHANICAL PROPERTIES AS A FUNCTION OF PHOSPHORUS CONTENT 67-07 M12-74122
PREPARATION CAN LOWER COST OF PLATING ZINC DIE CASTINGS 67-08 M12-74494
DEVELOPMENTS IN NICKEL AND CHROMIUM DECORATIVE COATINGS AND IN ELECTROFORMING WITH NICKEL. PT. 2 67-08 M12-74948
GALVANIC NICKEL PLATING 67-08 M12-75100
THE CONTROL AND DOSING OF GLOSS-FORMING ADDITIVES IN NI-COATING BATHS 67-08 M12-75681
CHEMICAL NICKEL PALTING AND COBALT PLATING 67-08 M12-76018
A COMPARATIVE STUDY OF SOME MODERN BRIGHT NICKEL-CHROMIUM SYSTEMS 67-08 M12-76076
NICKEL SLURRY COATS STEEL STRIP 67-08 M12-76179
NICKEL PLATING WITHOUT ELECTRICITY 67-09 M12-76735
ADHERENCE TO CERAMIC COMPONENTS OF METAL LAYERS WHICH ARE DIFFICULT TO SEAL 67-09 M12-76749
LEVELLED BRIGHT NICKEL COATINGS 67-09 M12-77676
NICKEL PLATING BY CHEMICAL REDUCTION 67-09 M12-77915
NICKEL PLATING URANIUM--REVIEW OF LABORATORY STUDIES 67-09 M12-78057
SOME PRODUCTION PLATING PROBLEMS AND HOW THEY WERE SOLVED. PT. 12 67-09 M12-78058
A MORE UNIFORM, MORE ADHERENT PLATE ON ZINC 67-09 M12-78173
X-RAY STUDY OF SOME THIN NICKEL ELECTRODEPOSITS 67-09 M13-78135
ELECTROLESS NICKEL PLATING OF IRON POWDERS 67-10 M09-78984
PRACTICAL PROBLEMS IN COPPER CYANIDE PLATING 67-10 M12-78521
INFLUENCE OF THE NATURE AND CONCENTRATION OF ORGANIC ADDITIONS ON THE PROCESS OF ELECTROLESS NICKEL PLATING 67-10 M12-78532
PREPARATION OF AN ALUMINUM SURFACE FOR ELECTROLYTIC NICKEL PLATING 67-10 M12-78541
NEW DEVELOPMENTS IN NICKEL PLATING. MULTILAYER COATINGS 67-10 M12-79395
ONE-COAT ENAMELLING STEEL 67-10 M12-79497
NEW DEVELOPMENTS IN THE FIELD OF ELECTROPLATING 67-10 M12-79793
CORROSION TESTING OF CHROMIUM AND MULTILAMINAR COATINGS IN DAIRY PRODUCTS 67-10 M18-78542
IMPROVING THE FATIGUE STRENGTH OF CHEMICALLY NICKEL-PLATED STEEL BY SURFACE HEATING WITH HIGH-FREQUENCY CURRENT 67-11 M10-81293
BEHAVIOR OF NICKEL ANODES IN PLATING ELECTROLYTES 67-11 M12-80417
NICKEL PLATING BY CHEMICAL REDUCTION 67-11 M12-80578
RECENT DEVELOPMENTS IN DECORATIVE NICKEL/CHROMIUM-PLATING PROCESSES IN THE UNITED KINGDOM 67-11 M12-80635
ELECTROLYTIC NICKEL COATING AT HIGH CURRENT DENSITIES 67-11 M12-81285
EFFECT OF ASYMMETRIC ALTERNATING CURRENT ON THE LEVELING OF NICKEL DEPOSITS DURING ELECTROLYSIS 67-11 M12-81286
THE FORMATION OF FE-NI AND FE-NI-CO SOLID SOLUTIONS AT THE STEEL-ENAMEL INTERFACE 67-11 M13-81379
DETERMINING THE ADHESION STRENGTH OF COPPER AND NICKEL COATINGS TO A STEEL BASE BY THE LARGE CENTRIFUGAL FIELDS METHOD 67-11 M17-81299
THE PRODUCTION OF NONMETALLIC AND METALLIC PROTECTIVE SURFACE LAYERS ON SINTERED IRON 67-11 M18-80341
SCIENCE FOR ELECTROPLATERS. PT. 117 67-11 M18-80668
BRAZED, VACUUM-TICHT CERAMIC-METAL JOINTS 67-12 M11-83008
DUPLEX NICKEL PLATING SYSTEM WITH IMPROVED LEVELLING PROPERTIES 67-12 M12-81955
CHEMICAL NICKEL PLATING OF ZINC ALLOYS 67-12 M12-82265
DIFFERENTIAL NICKEL AND COPPER PLATING 67-12 M12-82607
THERMODYNAMIC CHARACTERISTICS OF ELECTROLESS CHROMIUM PLATING 67-12 M12-83085
SLURRY-COAT AIMS AT FABRICATORS 67-12 M12-83135
THE INFLUENCE OF INTERNAL STRESS ON CORROSION FATIGUE IN NICKEL-PLATED STEEL 67-12 M18-82606
SCIENCE FOR ELECTROPLATERS. PT. 118. POROSITY 67-12 M18-82708

NICKEL STEELS
SEE ALSO NICKEL CHROMIUM STEELS
NICKEL MOLYBDENUM STEELS
REVIEW OF 9 PER CENT NICKEL STEEL 67-01 M01-58356

NICKEL STEELS, CASTING
THE DEVELOPMENT OF STEEL CASTING ALLOYS AS REFLECTED BY NEW STANDARDS 67-04 M06-66673
NICKEL STEELS, CASTINGS
NICKEL ALLOY STEEL CASTINGS 67-12 M17-81806
NICKEL STEELS, CORROSION
ACTION OF MOLTEN ZN ON NI STEELS 67-04 M14-66340

NICKEL STEELS

CORROSION RESISTANCE OF STEELS WITH A LOW CONCENTRATION OF NICKEL IN AGGRESSIVE MEDIA 67-05 M18-68381
CORROSION-FATIGUE CRACK PROPAGATION IN MODERN HIGH-PERFORMANCE STRUCTURAL STEELS 67-08 M18-75974

NICKEL STEELS, CRYSTALLIZATION
RECRYSTALLIZATION OF MANGANESE AND NICKEL STEELS DURING AUSFORMING 67-02 M14-61989

NICKEL STEELS, DIFFUSION
SELF-DIFFUSION OF NI IN AUSTENITE OF NICKEL STEELS 67-02 M14-59117

NICKEL STEELS, ELECTRICAL PROPERTIES
STRAIN GAGE FACTOR AND ELECTRICAL RESISTIVITY IN THE COLD WORKED STATE OF FE-NI-CR ALLOYS CONTAINING 35 WT PER CENT NI AND 0-20 WT PER CENT CR 67-11 M15-81070

NICKEL STEELS, GRAIN GROWTH
RECRYSTALLIZATION OF A HEAT RESISTANT NICRWTI STEEL AT TECHNICAL HOT WORKING AND AUSTENITIZING TEMPERATURES 67-09 M14-76695

NICKEL STEELS, HARDENING
FORMATION OF DEFORMATION MARTENSITE ON EXPLOSIVE SHOCK LOADING OF AUSTENITIC STEELS 67-05 M14-68248

NICKEL STEELS, HEAT TREATMENT
CARBURIZING LINE AIDS QUALITY BEARING PRODUCTION 67-03 M10-65528
HEAT TREATMENT AND MECHANICAL PROPERTIES OF 9 PER CENT NI-4 PER CENT CO STEELS 67-04 M01-68146
X-RAY STUDY OF PRECIPITATION HARDENING AND AGING OF N27T2 ALLOY 67-05 M10-69646
CARBURIZED NICKEL ALLOY STEELS 67-06 M01-70643
INTRODUCTION OF C14 INTO IRON AND NICKEL ALLOYS 67-06 M10-71338
THE INVESTIGATION OF THE PRECIPITATION BEHAVIOR IN HIGH-STRENGTH MARTENSITE-AGE-HARDENING NICKEL STEELS 67-06 M14-70261
HOW TO NITRIDE MARAGING STEELS 67-10 M10-78760
BASIC PRINCIPLES OF HEAT TREATMENT OF STEELS FOR LOW-TEMPERATURE APPLICATIONS 67-10 M10-78856
THE BASIC PRINCIPLES OF HEAT TREATMENT OF STEELS. PT. 7. STEELS FOR USE AT LOW TEMPERATURES 67-11 M10-80394
RAPID REAUSTENITIZING OF AN FE-NI-C ALLOY 67-11 M10-81141
CARBURIZED NICKEL ALLOY STEELS 67-12 M01-81804
ANNEALING CHARACTERISTICS OF NICKEL ALLOY STEELS 67-12 M10-81810

NICKEL STEELS, MAGNETIC PROPERTIES
MAGNETIC PROPERTIES IN THE COLD WORKED STATE OF IRON-NICKEL-CHROMIUM ALLOYS CONTAINING 35 WT PER CENT NI AND 0-20 WT PER CENT CR 67-11 M15-81071
EFFECTS OF THE CHEMICAL COMPOSITION OF STEEL ON ITS MAGNETIC PROPERTIES 67-12 M15-83304

NICKEL STEELS, MECHANICAL PROPERTIES
RESIDUAL DEFORMATION STRESSES IN IRON MATERIALS 67-02 M17-59917
APPLICATION OF THE VARESTRAINT TECHNIQUE TO THE STUDY OF WELDABILITY 67-02 M17-61582
INFLUENCE OF THERMOMECHANICAL TREATMENT ON THE FORMATION OF FRACTURES IN TEMPERED STEELS 67-02 M17-61995
STUDY OF MATERIAL FOR UNLUBRICATED ROLLING PARTS FOR HIGH-TEMPERATURE SERVICE 67-02 M17-61998
INTERNAL FRICTION IN 18 PER CENT NI MARAGING STEELS 67-03 M15-65085
NEW STEELS FOR THE CPI 67-04 M01-66588
ON THE MANUFACTURING PROCESS AND PROPERTIES OF FLT-9N STEEL FOR CRYOGENIC TEMPERATURE SERVICE 67-05 M17-69363
SOME METALLURGICAL ASPECTS OF THE LOW-TEMPERATURE TOUGHNESS OF 9 PER CENT NI STEEL 67-05 M17-69364
EFFECT OF COLD WORKING ON THE TOUGHNESS OF 9 PER CENT NICKEL STEEL 67-05 M17-69366
BRITTLE FRACTURE INITIATION CHARACTERISTICS FOR WELD HEAT AFFECTED ZONE OF 9 PER CENT NI STEEL 67-05 M17-69367
EFFECT OF AGING ON THE PROPERTIES OF MARTENSITE OBTAINED FROM STRAINED AUSTENITE 67-05 M17-69671
DUCTILITY CRITERION FOR NICKEL AND CHROMIUM STEELS AND ALLOYS 67-06 M17-70102
THE BEHAVIOR OF 9 PER CENT NICKEL STEEL IN A REACTOR ENVIRONMENT 67-06 M17-71682
QUENCHED AND TEMPERED NICKEL ALLOY STEELS 67-07 M01-74246
THE EFFECT OF CR AND MN ADDITIONS ON THE LOW-TEMPERATURE NOTCHED IMPACT STRENGTH OF 14NI6 --FRIDUCTILE N2-- STEEL 67-08 M17-75065
ANNEALED, HOT ROLLED AND NORMALIZED NICKEL ALLOY STEELS 67-08 M17-75381
EFFECT OF PRIOR PLASTIC DEFORMATION OF AUSTENITE ON MS IN AN FE-26 PER CENT NI-0.4 PER CENT C ALLOY 67-08 M17-75818
AN INVESTIGATION OF THE MECHANICAL PROPERTIES AND MICROSTRUCTURES OF 18NI --250-- MARAGING STEEL WELDMENTS 67-08 M17-75967
INFLUENCE OF TEMPERING ON THE MECHANICAL PROPERTIES AND THE FINE STRUCTURE OF QUENCHED AND DEFORMED STEELS 67-08 M17-76026
FRENCH STANDARD SPECIFICATION PNA36-208 ON STEELS FOR LOW-TEMPERATURE APPLICATIONS 67-08 M19-76291
MECHANICAL PROPERTIES OF LOW-CARBON NICKEL STEELS AT MINUS 253 C 67-09 M17-77416
NICKEL ALLOY STEEL CASTINGS 67-09 M17-77791
GUIDE TO SELECTION OF SUPERALLOYS 67-10 M01-78629
BURSTING TESTS ON 9 PER CENT NI STEEL PRESSURE VESSELS AT LOW TEMPERATURES 67-10 M17-78638
ELEVATED TEMPERATURE PROPERTIES OF NICKEL ALLOY STEELS 67-10 M17-79442
RATIO OF THE CRACK FORMATION AND PROPAGATION ENERGIES DURING IMPACT TESTS 67-10 M17-79742
QUENCHED AND TEMPERED NICKEL ALLOY STEELS 67-12 M17-81803
ANNEALED, HOT ROLLED, AND NORMALIZED NICKEL ALLOY STEELS 67-12 M17-81805
ELEVATED TEMPERATURE PROPERTIES OF NICKEL ALLOY STEELS 67-12 M17-81807
HARDENABILITY OF NICKEL ALLOY STEELS 67-12 M17-81808
INFLUENCE OF BORON, COPPER AND TIN ON THE HOT TORSIONAL DUCTILITY OF AN FE-NI ALLOY 67-12 M17-82283
INVESTIGATION OF ON6A AND ON9A STEELS FOR PERFORMANCE AT -196 C 67-12 M17-83531

NICKEL STEELS, MICROSTRUCTURE
THE APPLICATION OF PHASE INTEGRATORS TO THE DETERMINATION OF INCLUSIONS AND THE VOLUMETRIC DETERMINATION OF SEGREGATION RANGES IN STEEL 67-04 M13-67204
CHANGE IN THE STRUCTURE OF MARTENSITE IN NI STEELS DURING AGING 67-04 M14-67930
DISLOCATION STRUCTURE OF DEFORMED AUSTENITE AND ITS INHERITANCE BY MARTENSITE 67-08 M13-76023
RECRYSTALLIZATION OF MANGANESE AND NICKEL STEELS DURING HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT 67-10 M14-78846
STUDY OF THE CHARACTERISTICS OF MARTENSITIC TRANSFORMATION DURING AUSROLLING OF NI STEELS 67-10 M14-79224
STUDY ON THE MECHANISM OF BAINITE REACTION. PT. 1. INVESTIGATION OF THE GROWTH OF BAINITE IN FE-NI-C ALLOYS BY HOT STAGE MICROSCOPY 67-11 M14-80950
STUDY ON THE MECHANISM OF BAINITE REACTION. PT. 2. TRANSMISSION ELECTRON MICROSCOPE OBSERVATION OF THE PROCESS OF BAINITE REACTION IN AN FE-NI-C ALLOY 67-11 M14-80951
INFLUENCE OF CARBON ON FORMATION OF MARTENSITE IN HIGH-NICKEL STEEL 67-12 M13-81834

NICKEL STEELS, PHASE TRANSFORMATIONS
CAUSES OF THE EFFECT OF PULSED MAGNETIC FIELD ON MARTENSITIC TRANSFORMATIONS IN STEELS AND ALLOYS 67-08 M14-74640
COURSE OF THE MARTENSITE-AUSTENITE RETRANSFORMATION IN A FE-NI ALLOY WITH 32.5 PER CENT NI --BY WEIGHT-- WITH FAST HEATING 67-10 M13-79067
THE PLATE-LIKE MARTENSITE TRANSFORMATION IN FE-NI ALLOYS 67-11 M14-81262
THERMAL STABILIZATION OF AUSTENITE IN IRON-NICKEL-CARBON ALLOYS 67-11 M14-81598
ISOTHERMAL TRANSFORMATION DIAGRAMS OF NICKEL ALLOY STEELS 67-12 M14-81809

NICKEL STEELS, POWDER METALLURGY
SOME PROPERTIES OF P/M NICKEL ALLOY STEEL 67-07 M09-73958

NICKEL STEELS, REFINING
A DECADE OF VACUUM DEGASSING AT U. S. STEEL. PT. 2 67-05 M06-69551

NICKEL STEELS, ROLLING
INHERITANCE OF DEFECTS BY MARTENSITE IN THE PROCESS OF AUSFORMING 67-06 M14-71339

NICKEL STEELS, THERMAL PROPERTIES
WHERE YOU CAN USE TODAYS SUPERALLOYS
67-10 M20-78630
NICKEL STEELS, WELDING
BEHAVIOR OF 9 PER CENT NICKEL STEEL IN REACTOR ENVIRONMENT 67-01 M17-58350
WELDING OF SPECIAL AND COMMON STEEL PIPE
67-03 M11-65062
THE SS WELDING PROCESS --IMPROVED SUBMERGED ARC WELDING-- 67-03 M11-65819
WELDING OF 9NI STEEL TANKS FOR THE STORAGE OF LIQUID OXYGEN 67-05 M11-69168
ON THE WELDABILITY OF 9 PER CENT NI STEEL, NLT 9N
67-05 M17-69365
FABRICATION OF LIQUEFIED OXYGEN AND NITROGEN STORAGE TANKS FROM FLT9N --9 PER CENT NICKEL-- STEEL 67-05 M17-69369
STEELS FOR HYDROSPACE PRESSURE HULLS
67-06 M11-70122
PLATES OF AUSTRIAN SPECIAL STEELS FOR WELDED CONSTRUCTION 67-06 M11-70459
WELDED JOINTS OF LOW-TEMPERATURE STEELS IN THE CONSTRUCTION OF PRESSURE VESSELS
67-06 M11-70462
THE WELDING OF STEELS FOR LOW TEMPERATURE APPLICATIONS 67-06 M11-71596
WELDING THE MARAGING STEELS 67-09 M11-76638
WELDING A GAS TURBINE CASING IN HIGHLY AUSTENITIC HEAT RESISTING STEEL 67-09 M11-77239
NICKEL STEELS, X RAY ANALYSIS
QUANTITATIVE ANALYSIS BY X-RAY DIFFRACTION METHOD
67-01 M19-57914

NIOBIUM
REFRACTORY METALS CB, TA, MO, W
67-05 M01-68419
ELECTROPOLISHING NIOBIUM 67-08 M13-75299
NIOBIUM, ACOUSTIC PROPERTIES
DISLOCATION RELAXATIONS IN SINGLE-CRYSTAL AND POLYCRYSTALLINE NIOBIUM AND TANTALUM AT MEGAHERTZ FREQUENCIES 67-10 M16-78476
NIOBIUM, ADSORPTION
ADSORPTION ON NIOBIUM --110--, TANTALUM --110--, AND VANADIUM --110-- SURFACES
67-08 M14-75336

NIOBIUM, ALLOYING ADDITIVE
SOME OBSERVATIONS ON NIOBIUM IN STEEL
67-01 M17-57516
EFFECT OF MOLYBDENUM, NIOBIUM, AND TUNGSTEN ON THE STRUCTURE AND PROPERTIES OF AUSTENITIC CHROMIUM-MANGANESE STEELS CONTAINING NITROGEN
67-01 M17-58070
THE INFLUENCE OF VANADIUM AND NIOBIUM ON THE MECHANICAL PROPERTIES AND WELDABILITY OF CARBON STEEL. PT. 1. AS ROLLED 67-02 M17-58846
WHAT COLUMBIUM DOES TO TYPE 410 STAINLESS STEEL
67-02 M17-59465
EFFECT OF NIOBIUM ON CRACK INITIATION IN 2KH13L STEEL 67-02 M17-59650
EFFECT OF NB, TI AND B ON THE ELEVATED-TEMPERATURE MECHANICAL PROPERTIES OF A CR12W2V STEEL
67-02 M17-60210
THE EFFECT OF NICKEL, SILICON AND NIOBIUM ON THE OXIDATION OF TITANIUM AT HIGH TEMPERATURES
67-02 M18-59785
SOLUBILITY OF NB IN NI-CR SOLID SOLUTION
67-03 M13-65795
THE SOLUBILITY OF NITROGEN IN MULTICOMPONENT LIQUID IRON ALLOYS 67-03 M14-65081
SOME OBSERVATIONS ON NIOBIUM IN STEEL
67-03 M17-65465
DEVELOPMENT AND EVALUATION OF THE SYSTEM U-NB-SI AS A DISPERSED PHASE ALLOY 67-04 M14-66133
SOLUBILITY OF NB PRECIPITATES IN AUSTENITE, IN THE CASE OF LOW-CARBON STRUCTURAL STEELS WITH SMALL NB QUANTITIES 67-04 M14-66352
ON THE HIGH TEMPERATURE PROPERTIES AND THE MICROSTRUCTURES OF HIGH MANGANESE HEAT RESISTING 10M6N TYPE ALLOY 67-04 M17-67566
EFFECT OF THE CARBON AND MANGANESE CONCENTRATIONS ON THE PROPERTIES OF LOW-ALLOYED STEEL CONTAINING SMALL AMOUNTS OF NIOBIUM
67-04 M17-67958
EFFECT OF HEAT TREATMENT ON THE CORROSION RESISTANCE OF ZIRCONIUM ALLOYS
67-04 M18-66401
DETERMINATION OF NIOBIUM IN MILD AND LOW-ALLOY STEELS 67-04 M19-67418
THE BETA TO ALPHA PHASE CHANGE IN A URANIUM-PLATINUM-NIOBIUM ALLOY 67-05 M14-69566
DETERMINING OPTIMUM CONDITIONS FOR HEAT TREATING SUPERCONDUCTING NB-75 PER CENT ZR ALLOY
67-05 M15-69658
NICKEL-CHROMIUM ALLOYS WITH NIOBIUM
67-05 M17-68360
INFLUENCE OF SMALL AMOUNTS OF NIOBIUM ON THE MECHANICAL PROPERTIES OF 25G2 STEEL
67-05 M17-68385
EFFECT OF ALLOYING ELEMENTS ON THE FORMABILITY OF CAST RE 67-05 M17-68978
TOUGHNESS OF HIGH-STRENGTH, HOT ROLLED STEELS
67-05 M17-69445
DEVELOPMENT OF NIOBIUM-CONTAINING COBALT-BASE AIR-CASTING ALLOYS FOR HIGH TEMPERATURES
67-05 M17-69564
THE EFFECT OF COMBINED, SIMULTANEOUS ADDITION OF MO, NB, TI, N, B ON HIGH TEMPERATURE PROPERTIES OF 18CR-12NI AUSTENITIC HEAT RESISTING STEEL
67-05 M17-69711
COMPARISON BETWEEN COLUMBIUM CARBIDE AND FERROCOLUMBIUM AS ADDITIONS TO COLUMBIUM-ALLOYED STEELS 67-06 M04-72298
COLUMBIUM-ALLOYED LOW-CARBON STEEL
67-06 M17-71266
EFFECT OF COLUMBIUM ON THE PROPERTIES OF WELDABLE PLAIN CARBON STRUCTURAL STEELS
67-06 M17-71437
THE EFFECT OF SMALL NB ADDITIONS ON THE RECRYSTALLIZATION OF AUSTENITE AFTER HOT WORKING
67-07 M14-72529
THERMODYNAMIC BEHAVIOR OF COLUMBIUM CARBIDE, CARBONITRIDE, NITRIDE AND SULFIDE IN STEEL
67-07 M15-72492
EFFECT OF MOLYBDENUM, TUNGSTEN AND COLUMBIUM ON THE RESISTING 20 PER CENT CO, 20 PER CENT CR, 20 PER CENT NI ALLOYS 67-07 M17-73028
MILD STEEL WITH NIOBIUM ADDED 67-08 M17-75735
INVESTIGATION OF NIOBIUM CONTAINING STRUCTURAL STEEL 67-08 M17-75772
INFLUENCE OF NIOBIUM AND NITROGEN ON THE STRENGTH OF HAVING A FERRITE-PEARLITE STRUCTURE
67-08 M17-76235
DEVELOPMENT TRENDS IN HIGH STRENGTH, WELDABLE STRUCTURAL STEELS ALLOYED WITH NB, V, N, TI, ZR AND OTHER ELEMENTS 67-09 M04-77583
THE DISSOLUTION, PRECIPITATION AND AGE HARDENING EFFECT OF NIOBIUM IN PLAIN CARBON STEEL. PT. 1
67-09 M14-76797
AN ELECTRON-MICROSCOPE STUDY OF NB PRECIPITATES IN LOW CARBON STEELS 67-09 M14-78293
THE ELECTROLYTIC ISOLATION AND X-RAY DIFFRACTION IDENTIFICATION OF NIOBIUM CARBIDES AND NIOBIUM NITRIDES IN LOW-NIOBIUM STEELS
67-09 M19-78194
GRAIN-COARSENING OF AUSTENITE 67-10 M14-78333
THE EFFECT OF VARIOUS NB CONTENTS ON THE MECHANICAL PROPERTIES OF PLATES OF SEMIKILLED AND KILLED STEELS WITH YIELD STRENGTHS BETWEEN 36 AND 46 KG/MM2 67-10 M17-78645
SOLUTION, PRECIPITATION AND HARDENING EFFECT OF NIOBIUM ON UNALLOYED STEEL 67-10 M17-78692
INFLUENCE OF NIOBIUM, TITANIUM, AND BORON ON HIGH-TEMPERATURE PROPERTIES OF 12 PER CENT CR-2 PER CENT W-V STEEL 67-10 M17-79772
PRODUCING HEAVY-GAGE CHROMIUM-NICKEL STEEL CONTAINING NIOBIUM 67-12 M04-81867
EFFECTS OF LOW-TEMPERATURE AGING ON THE RESISTIVE TRANSITION OF SUPERCONDUCTING 70ZR-30NB --CB-- IN PULSED MAGNETIC FIELDS 67-12 M16-82721
EFFECT OF NIOBIUM ON THE STRUCTURE AND PROPERTIES OF HYPEREUTECTOID STEEL 67-12 M17-82091
THE TOUGHNESS OF FERRITIC STEEL STRENGTHENED BY PRECIPITATION OF CBC 67-12 M17-82566
EFFECT OF SMALL COLUMBIUM ADDITIONS ON THE PROPERTIES OF SOME AUSTENITIC STAINLESS STEELS
67-12 M17-83046
RESULTS OF BURST TESTS ON NIOBIUM-TREATED HIGH TENSILE STEEL PIPES AT LOW TEMPERATURES
67-12 M17-83507

NIOBIUM, ATOMIC PROPERTIES
ELECTRON STRUCTURES OF ALLOYS OF THE SYSTEM NB-ZR
67-12 M16-82796

NIOBIUM, BAND THEORY
NUCLEAR MAGNETIC RELAXATION IN FERROMAGNETIC TRANSITION METALS 67-02 M16-59478
NIOBIUM, BIMETALS
PRODUCING NB-STEEL BIMETAL BY VACUUM ROLLING
67-05 M12-68238

NIOBIUM, BINARY SYSTEMS

NIOBIUM

ANODIZING AS A TECHNIQUE FOR STUDYING DIFFUSION IN THE TICB SYSTEM 67-01 M14-57432
THE NBCO3 PHASE 67-02 M13-60889
ON THE P-T-C-REPRESENTATION OF THE NIOBIUM-OXYGEN AND TANTALUM-OXYGEN SYSTEMS 67-02 M13-61889
THE METAL RICH PARTS OF THE SYSTEMS TA-C, NB-C AND V-C 67-02 M14-60120
THE EXISTENCE OF INTERMETALLIC COMPOUNDS IN THE NB-ZN SYSTEM 67-03 M13-65796
THE EQUILIBRIUM DIAGRAM OF THE SYSTEM NIOBIUM-NICKEL 67-03 M14-65125
PRECIPITATION HARDENING IN BCC BINARY ALLOYS. PROGRESS REPORT TO MARCH 1966 67-04 M10-68160
PHASE DIAGRAMS OF SYSTEMS OF HYDROGEN WITH TITANIUM, ZIRCONIUM, VANADIUM AND NIOBIUM 67-04 M13-66824
PHASE EQUILIBRIA IN THE NB-SN SYSTEM 67-04 M13-67266
SOLUBILITY OF GASES IN REFRACTORY METALS AND PRECIPITATION FROM SUPERSATURATED SOLID SOLUTIONS 67-04 M14-67547
PHASE DIAGRAM OF THE NIOBIUM-GALLIUM SYSTEM 67-05 M13-68203
PHASE DIAGRAM OF THE NIOBIUM-TIN SYSTEM 67-05 M13-68450
THE CONSTITUTION OF THE NB-ZN-O SYSTEM AT 1800 F 67-05 M13-69842
USE OF PHASE DIAGRAMS OF BINARY SYSTEMS TO CALCULATE THE HEAT OF FUSION OF THE SOLVENT 67-05 M15-69110
INTERACTION OF TANTALUM WITH NBRU COMPOUNDS 67-06 M13-70183
THE RELATION OF SHAPE OF THE HOMOGENEITY FIELD 67-06 M16-70319
SUPERCONDUCTING TRANSITION TEMPERATURE AND ELECTRONIC STRUCTURE IN THE PSEUDOBINARIES NB3AL-NB3SN AND NB3SN-NB3SB 67-07 M16-73640
THE CONSTITUTION OF NB-CO ALLOYS 67-08 M13-75293
STRUCTURAL STUDY OF NIOBIUM-IRON ALLOYS 67-10 M14-78481
STUDY OF ALLOYS IN THE NIOBIUM-ZINC SYSTEM 67-10 M14-79630
DETERMINING THE STRENGTH OF THE INTERATOMIC BOND BY THE CHARACTERISTIC TEMPERATURE 67-10 M17-79231
CONSTITUTION DIAGRAM OF THE NIOBIUM-ANTIMONY SYSTEM 67-12 M13-82167
CONSTITUTION OF A PORTION OF THE NIOBIUM -- COLUMBIUM---NITROGEN SYSTEM 67-12 M13-82960

NIOBIUM, BRAZING
REFRACTORY METALS BRAZED FOR OPERATION AT 2200 F 67-06 M11-72254
BRAZING OF GRAPHITE AND SOME OTHER MATERIALS 67-10 M11-78406

NIOBIUM, CHEMICAL ANALYSIS
DETERMINING HYDROGEN CONTENT IN NIOBIUM BY HIGH-TEMPERATURE VACUUM HEATING 67-01 M19-58206
DETERMINING IMPURITIES IN HIGH-PURITY NIOBIUM 67-06 M19-70351
DETERMINATION OF IMPURITIES IN HIGH-PURITY NIOBIUM 67-10 M19-79632

NIOBIUM, CHEMISTRY
THE CHEMISTRY OF NIOBIUM AND TANTALUM 67-11 M01-80401

NIOBIUM, CLAD METALS
COMPATIBILITY OF U-PU-FZ FUEL ALLOYS WITH POTENTIAL CLADDING MATERIALS 67-01 M14-58585
PRODUCING BIMETALS BY VACUUM ROLLING 67-05 M12-68235

NIOBIUM, COATING
PROPERTIES OF COATED REFRACTORY METALS. PT. 2 67-01 M12-58003
SOME PROBLEMS CONNECTED WITH NB3SN COATINGS ON NB AS MATERIALS FOR SUPERMAGNET ELEMENTS 67-04 M12-66658
OXIDATION AND SELF-REPAIR OF THE ZINC-BASED HIGH TEMPERATURE COATING FOR NIOBIUM 67-05 M18-69841
REFRACTORY METALS PROTECTION 67-06 M12-71318

NIOBIUM, CORROSION
STUDY OF THE OXIDATION OF NIOBIUM 67-01 M18-58049
DONT OVERLOOK REFRACTORY METALS FOR CORROSIVE ENVIRONMENTS 67-02 M18-61099
RETARDATION OF THE OXIDATION RATES OF NIOBIUM, TANTALUM AND TUNGSTEN BY FLUORIDE COATING 67-04 M18-66164
USE OF THE REFRACTORY METALS IN CORROSIVE ENVIRONMENT SERVICE 67-05 M01-69103
ELECTRON DIFFRACTION STUDY OF THE STRUCTURE OF THE SUBOXIDES OF NIOBIUM AND TANTALUM 67-05 M13-69584
EVALUATION OF SILICIDE COATINGS ON COLUMBIUM AND TANTALUM AND A MEANS FOR IMPROVING THEIR OXIDATION RESISTANCE 67-06 M18-69926
USE OF THE REFRACTORY METALS IN CORROSIVE ENVIRONMENT SERVICE 67-11 M18-80295

NIOBIUM, CRYSTAL DEFECTS
UNSTABLE DISLOCATIONS IN ANISOTROPIC CRYSTALS 67-05 M14-69777

NIOBIUM, CRYSTAL GROWTH
OBTAINING SINGLE CRYSTALS OF REFRACTORY METALS BY THE CZOCHRALSKI METHOD 67-09 M14-77277

NIOBIUM, CRYSTAL LATTICES
THE PLASTICITY OF PURE NIOBIUM SINGLE CRYSTALS 67-05 M17-69465
STRUCTURE OF THE ROLLING TEXTURE OF BCC METALS AND ALLOYS. PT. 2. ORIENTATION DISTRIBUTION OF CRYSTALLITES IN ROLLED NIOBIUM DETERMINED BY MEANS OF SELECTED AREA ELECTRON DIFFRACTION --SAED-- 67-06 M14-71723
STRESS DEPENDENCE OF DISLOCATION CONFIGURATION IN DEFORMED NIOBIUM 67-07 M13-73930
THE INTERACTIONS BETWEEN INTERSTITIALS AND THEIR ORDERING 67-08 M14-75078
ETCHING PHENOMENA IN THE --111-- PLANE OF NIOBIUM 67-09 M13-77430
TEXTURE DEVELOPMENT AND CRYSTAL PERFECTION IN NIOBIUM --COLUMBIUM-- ANNEALED AT 2000 C 67-11 M13-81354
THE EFFECT OF THE TYPE OF SPLITTING OF SCREW DISLOCATIONS ON THE SLIP GEOMETRY IN BCC METALS 67-12 M13-82003

NIOBIUM, CRYSTALLIZATION
CRYSTALLIZATION FRONT IN ELECTRIC-ARC ZONE MELTING 67-10 M14-79631

NIOBIUM, DEGASSING
DEGASSING KINETICS OF METAL-NITROGEN-SOLID SOLUTIONS. PT. 1. THEORETICAL CONSIDERATIONS 67-02 M14-60125

NIOBIUM, DEPOSITION
COMPOSITION AND STRUCTURE OF NICKEL LAYERS, CONDENSED ONTO NIOBIUM 67-06 M12-72379
POROUS BODIES OF TANTALUM, NIOBIUM, AND ALUMINUM FABRICATED BY METAL SPRAY PROCESSES 67-11 M12-80840

NIOBIUM, DIFFUSION
SELF-DIFFUSION OF NIOBIUM IN SOME OF ITS ALLOYS CONTAINING MOLYBDENUM 67-01 M14-57314
A REVIEW OF DIFFUSION PROCESSES IN ZIRCONIUM AND ITS ALLOYS 67-02 M14-59018
SELF-DIFFUSION OF NIOBIUM IN NB-TI AND NB-ZR ALLOYS 67-02 M14-62241
CARBON DIFFUSION IN NIOBIUM 67-02 M14-62242
THE INTERDIFFUSION OF NIOBIUM AND MOLYBDENUM 67-04 M14-66160
DIFFUSION MECHANISM IN BODY-CENTERED CUBIC METALS 67-06 M14-72066
MUTUAL DIFFUSION OF COLUMBIUM WITH SOME REFRACTORY METALS 67-07 M14-74188
DIFFUSION OF ALKALI METALS IN MOLYBDENUM AND COLUMBIUM 67-07 M14-74189
THE POSITION ENERGY AND ACTIVATION ENERGY OF DIFFUSION OF INTERSTITIAL IMPURITIES 67-08 M14-75077
SELF-DIFFUSION OF NIOBIUM IN CERTAIN NB-W ALLOYS 67-08 M14-75877
RESEARCH INTO THE RELATIONSHIP OF THE THERMAL CONDUCTIVITY AND THERMAL DIFFUSIVITY OF TANTALUM AND NIOBIUM TO THE TEMPERATURE 67-10 M15-78950
KINETICS OF THE SOLUTION OF NIOBIUM IN IRON-CARBON ALLOYS 67-12 M14-82403

NIOBIUM, DISSOLVING
SOLUBILITY STUDIES OF ULTRA PURE TRANSITION ELEMENTS IN ULTRA PURE ALKALI METALS 67-01 M15-58508

NIOBIUM, ELECTRICAL PROPERTIES
STUDY ON RECOVERY OF RESISTIVITY OF NIOBIUM IRRADIATED BY ELECTRONS AT 20 K 67-02 M15-61527
EFFECTS OF LATTICE DEFECTS ON CRITICAL CURRENT OF HARD SUPERCONDUCTING NIOBIUM 67-02 M16-60146
ELECTRICAL RESISTIVITY OF HYDROGEN-CHARGED NIOBIUM 67-04 M15-67574
EMISSIVITY AND ELECTRICAL RESISTIVITY OF TANTALUM

AT HIGH TEMPERATURES 67-05 M15-69847
THE THERMOELECTRIC PROPERTIES OF SOME REFRACTORY METALS 67-06 M15-70345
HIGH VACUUM PURIFICATION OF NIOBIUM AND TANTALUM AND ITS INFLUENCE ON THE ELECTRIC RESISTIVITY 67-06 M15-71668
WORK FUNCTION OF METALS 67-06 M16-70492

NIOBIUM, ELEMENTARY PARTICLES
ANNIHILATION OF POSITRONS WITH ELECTRONS IN PLASTICALLY DEFORMED METALS WITH BCC LATTICES 67-04 M16-66001

NIOBIUM, EXTRACTION
USE OF AMMONIUM CHLORIDE FOR SEPARATING NIOBIUM AND TANTALUM IN HCL-HF SOLUTIONS WITH ANIONITES 67-01 M02-57308
DECOMPOSITION OF LEAN ZIRCON-PYROCHLORE CONCENTATES BY HYDROFLUORIC ACID 67-02 M03-59850
DECOMPOSITION OF TANTALITE CONCENTRATES BY CAUSTIC POTASH AND CAUSTIC SODA SOLUTIONS AT ELEVATED TEMPERATURES AND PRESSURES 67-02 M03-59879
COLUMBIUM METAL BY THE ALUMINOTHERMIC REDUCTION OF C6205 67-03 M03-65007
OBTAINING NIOBIUM AND TANTALUM OXIDES FROM ZIRCON-PYROCHLOROUS CONCENTRATE 67-03 M03-65583
EXTRACTION OF EUXENITE METAL VALUES BY FUSION WITH AMMONIUM SULFATE OR AMMONIUM BISULFATE 67-04 M03-67031
REDUCING NIOBIUM PENTACHLORIDE BY HYDROGEN 67-06 M03-70000
EXTRACTION OF NIOBIUM HYDROCOMPOUNDS FROM HYDROCHLORIDE SOLUTIONS BY TRIBUTYL-PHOSPHATES 67-06 M03-72112
SOLVENT EXTRACTION OF PROTACTINIUM, NIOBIUM AND TANTALUM FROM CITRATE SOLUTIONS 67-07 M03-73899
THE USE OF MOLTEN PYRIDINIUM CHLORIDE IN THE TREATMENT OF ORES OF NIOBIUM --COLUMBIUM-- AND OTHER REFRACTORY METALS 67-09 M02-77728
USE OF WATER-SOLUBLE AMINES IN THE TECHNOLOGY OF PROCESSING TANTALUM-NIOBIUM PRODUCTS 67-11 M03-81231
CHEMICAL TREATMENT OF COLUMBITE AND MICROLITE CONCENTRATES 67-11 M03-81232

NIOBIUM, FASTENERS
METAL FASTENERS IN ULTRA-HIGH TEMPERATURES 67-05 M20-69556

NIOBIUM, FIBER METALLURGY
FILAMENT-REINFORCED REFRACTORY METALS 67-07 M09-73360

NIOBIUM, HEAT TREATMENT
ISOTHERMAL SATURATION OF REFRACTORY METALS WITH NITROGEN AND STEP-WISE NITROGENATION 67-02 M10-61629
STEADY STATES DURING HEAT TREATMENT OF NIOBIUM AND TANTALUM UNDER WATER VAPOR 67-06 M14-71726

NIOBIUM, INTERMETALLICS
ANOMALOUS SPECIFIC HEAT OF NB3SN IN THE LIQUID HELIUM REGION 67-01 M15-58644
SUPERCONDUCTIVITY DEGRADATION IN BETA-TUNGSTEN STRUCTURE COMPOUNDS-NB3SN--CB3SN AND NB3AL 67-01 M16-57408
COLOR METALLOGRAPHY IN BLACK AND WHITE 67-02 M13-59440
ENHANCEMENT OF SUPERCONDUCTING CRITICAL CURRENT DENSITY IN NB3SN DIFFUSION LAYERS PRODUCED BY IRRADIATION WITH PROTONS 67-03 M16-65110
SUPERCONDUCTING PROPERTIES OF NB6SN5 AND OF MUTLPHASE NB-SN ALLOYS 67-03 M16-65888
TRANSITION TEMPERATURE AND COMPOSITION OF THE SUPERCONDUCTING NB3SN-PHASE 67-05 M16-69092
LATTICE INSTABILITY OF HIGH-TRANSITION-TEMPERATURE SUPERCONDUCTORS. PT. 1. POLYCRYSTALLINE A-15 COMPOUNDS 67-05 M16-69516
NMR STUDY OF TWO ENERGY GAPS IN SUPERCONDUCTING COMPOUNDS 67-05 M16-69767
LOW TEMPERATURE STRUCTURAL TRANSFORMATION IN NB3SN 67-06 M14-70574
ULTRASONIC MEASUREMENT IN SINGLE-CRYSTAL NB3SN 67-06 M16-69917
INTERACTION OF CONDUCTION AND INDUCED CURRENTS IN NB3ZR WIRES SUBJECTED TO AXIAL FIELDS 67-08 M15-75553
FABRICATION OF MULTILAYERED NB3SN SUPERCONDUCTING WIRES 67-08 M16-75757
STUDY OF THERMAL EXPANSION OF ALLOYS OF THE NI3AL-NI3NB SYSTEM 67-10 M15-79833
THE CRYSTAL STRUCTURE OF THE M PHASE, NB-NI-AL 67-11 M13-80489
EFFECT OF FAST NEUTRON IRRADIATION AT LOW TEMPERATURE ON NBZR COIL PERFORMANCE 67-11 M16-80335
ENERGY GAP OF SUPERCONDUCTING NB3SN 67-11 M16-80656
CONCERNING A NEW TERNARY PHASE, NBMNSI 67-12 M13-82286

NIOBIUM, IRRADIATION
ANNEALING SPECTRUM OF ELECTRON-IRRADIATED NIOBIUM AND TANTALUM FROM 13 TO 301 K 67-12 M16-82525

NIOBIUM, MAGNETIC PROPERTIES
DIRECT OBSERVATION OF SURFACE EFFECTS IN A HYSTERETIC SUPERCONDUCTOR 67-03 M16-65138
FLUX TRAPPING IN ROTATING SUPERCONDUCTORS 67-04 M16-66178
FEATURES CONCERNING THE LOWER CRITICAL FIELD OF AN INTRINSIC TYPE 2 SUPERCONDUCTOR 67-06 M16-72262
HIGH-FIELD GALVANOMAGNETIC PROPERTIES OF NIOBIUM AND TANTALUM 67-10 M15-79415

NIOBIUM, MECHANICAL PROPERTIES
THE EFFECT OF STRESS ON STRAIN AGEING 67-01 M17-57480
THE EFFECT OF NITROGEN ON THE TENSILE AND CREEP-RUPTURE PROPERTIES OF NIOBIUM 67-01 M17-58459
SINGLE CRYSTALS OF METALS 67-02 M14-60288
TEMPERATURE DEPENDENCE OF THE ELASTIC STIFFNESS COEFFICIENTS OF NIOBIUM --COLUMBIUM-- 67-02 M17-59423
IDENTIFICATION OF THE MECHANISM OF METAL FRACTURES BY ELECTRON MICROFRACTOGRAPHY 67-02 M17-59715
INFLUENCE OF HOT ROLLING CONDITIONS ON THE STRUCTURE AND PROPERTIES OF MOLYBDENUM, NIOBIUM AND TITANIUM 67-02 M17-60737
PREVENTION OF HYDROGEN EMBRITTLEMENT IN LITHIUM-COATED PARTS DURING WASHING IN SOLUTIONS 67-02 M17-60973
INVESTIGATION OF THE PROPERTIES OF CERTAIN NIOBIUM ALLOYS 67-02 M17-61556
RARE METALS AND THEIR ALLOYS AS MATERIALS FOR MODERN TECHNOLOGY 67-03 M17-65181
THE DEFORMATION CHARACTERISTICS OF NB, TA, MO AND W 67-03 M17-65760
STRESS MEASUREMENTS DURING THE OXIDATION OF TANTALUM AND NIOBIUM 67-04 M17-66067
THE MECHANICAL BEHAVIOR OF REFRACTORY-METAL ALLOYS 67-04 M17-66196
MECHANICAL PROPERTIES OF REFRACTORY METALS 67-04 M17-66443
INFLUENCE OF COLD PLASTIC DEFORMATION AND ANNEALING ON MECHANICAL PROPERTIES OF COLUMBIUM SHEET 67-04 M17-66446
MECHANICAL PROPERTIES OF COLUMBIUM AND ITS ALLOYS AT LOW TEMPERATURES 67-04 M17-66448
RELAXATION DAMPING MAXIMA IN PLASTICALLY DEFORMED MOLYBDENUM AND NIOBIUM SINGLE CRYSTALS 67-05 M17-68577
ELASTIC CONSTANTS OF THE FLUX LINE LATTICE IN TYPE 2 SUPERCONDUCTORS 67-06 M16-70987
THE YIELD-POINT PHENOMENON IN ELECTRON BEAM-REFINED NIOBIUM 67-06 M17-70629
THE INFLUENCE OF SOME SOLUTES ON YOUNGS MODULUS OF NIOBIUM 67-06 M17-71063
X-RAY STUDY OF WIRE-DRAWN NIOBIUM AND TANTALUM 67-06 M17-71426
DEFORMATION PROPERTIES OF NIOBIUM SINGLE CRYSTALS 67-06 M17-71520
PLASTIC ANISOTROPY OF TANTALUM, NIOBIUM, AND MOLYBDENUM 67-06 M17-71530
THE DEFORMATION ON NIOBIUM SINGLE CRYSTALS 67-07 M17-73064
INFLUENCE OF THE PRESSURE WORKING MEDIUM ON PROPERTIES OF COLUMBIUM 67-08 M17-75213
EXPERIMENTS ON THE DEFORMATION OF NIOBIUM SINGLE CRYSTALS. PT. 1. STRESS VERSUS STRAIN CURVES AND SLIP SYSTEMS IN COMPRESSION AND TENSION 67-09 M17-76585
ANOMALIES OF THE TEMPERATURE DEPENDENCE OF YOUNGS MODULUS OF NIOBIUM-ZIRCONIUM ALLOYS AND OF PURE NIOBIUM 67-09 M17-76791
EFFECT OF DEFORMATION ON ULTRASONIC DAMPING IN MOLYBDENUM AND NIOBIUM SINGLE CRYSTALS 67-10 M15-79909
THE EFFECT OF OXYGEN AND CARBON ON THE CREEP STRENGTH OF NIOBIUM 67-10 M17-78449
THE FRAGILIZATION OF NIOBIUM BY HYDROGEN AT AMBIENT

NIOBIUM
TEMPERATURES AND THE EFFECT OF STRAIN HARDENING
67-10 M17-79872
VARIATIONS OF YOUNGS MODULUS THROUGHOUT THE MIXED STATE IN NIOBIUM 67-11 M17-80231
SELECTED MECHANICAL PROPERTIES OF CLADDING AND STRUCTURAL MATERIALS 67-11 M17-80474
MECHANICAL PROPERTIES OF REFRACTORY METALS
67-11 M17-80984
EFFECT OF COLD PLASTIC DEFORMATION AND ANNEALING ON THE MECHANICAL PROPERTIES OF SHEET NIOBIUM
67-11 M17-80987
MECHANICAL PROPERTIES OF NIOBIUM AND NIOBIUM ALLOYS AT LOW TEMPERATURE 67-11 M17-80989
EFFECT OF PURITY AND TEMPERATURE ON DYNAMIC MICROSTRAIN OF NIOBIUM --COLUMBIUM--
67-11 M17-81342
INFLUENCE OF SURFACE CONDITION ON THE MECHANICAL PROPERTIES OF POLYCRYSTALLINE NIOBIUM
67-12 M17-83201
RESEARCH INTO THE DAMPING PROPERTIES OF CERTAIN HIGH-MELTING METALS AT HIGH TEMPERATURES IN A VACUUM 67-12 M17-83303
NIOBIUM, METAL WORKING
ROLLING OF REFRACTORY METALS IN INERT CONTROLLED ATMOSPHERE 67-08 M07-76246
NIOBIUM, METALLOGRAPHY
ELECTRON METALLOGRAPHY TECHNIQUES APPLIED TO BODY CENTERED CUBIC METALS AND ALLOYS
67-01 M13-58761
ELECTROCHEMICAL BEHAVIOR OF NIOBIUM IN ACID SOLUTIONS 67-12 M13-82605
NIOBIUM, MICROSCOPY
FIELD EVAPORATION OF METALS IN FIELD ION MICROSCOPE 67-08 M13-75083
NIOBIUM, MICROSTRUCTURE
STRUCTURAL CHANGES IN DEFORMED COLUMBIUM AND ITS ALLOYS DURING HEATING 67-04 M14-66445
ON THE SUBSTRUCTURE OF PLASTICALLY STRAINED METALS WITH A BODY-CENTERED LATTICE 67-05 M13-69652
THE EFFECT OF THE DEGREE OF PURITY ON SOME PROPERTIES OF HIGH-MELTING MATERIALS
67-05 M14-68580
THE FORMATION OF THE ROLLING TEXTURE OF BODY-CENTERED CUBIC METALS AND ALLOYS
67-06 M13-71657
MICROSTRUCTURE ASSOCIATED WITH THE PEAK EFFECT --MAXIMUM IN CRITICAL CURRENT DENSITY-- IN SUPERCONDUCTING NIOBIUM 67-08 M13-75784
EXPERIMENTS ON THE DEFORMATION OF NIOBIUM SINGLE CRYSTALS. PT. 2. ELECTRON MICROSCOPE STUDY OF DISLOCATION STRUCTURES 67-09 M13-76586
CHANGES IN THE STRUCTURE OF DEFORMED NIOBIUM AND NIOBIUM ALLOYS DURING HEATING
67-11 M14-80986
NIOBIUM, OPTICAL PROPERTIES
INTEGRAL DEGREE OF BLACKNESS OF MATERIALS IN THE TEMPERATURE INTERVAL 100 TO 1100 C
67-09 M15-76762
NIOBIUM, OXIDATION
THE OBSERVATION OF MARKERS DURING THE OXIDATION OF COLUMBIUM 67-12 M14-82749
OXIDATION OF NIOBIUM AND NIOBIUM COATED WITH ALUMINUM IN STEAM-AIR MIXTURES
67-12 M18-83219
NIOBIUM, PHASE TRANSFORMATIONS
SOLUTION HARDENING IN NIOBIUM 67-03 M14-65221
NIOBIUM, PHYSICAL PROPERTIES
APPLICATIONS OF REFRACTORY METALS IN INDUSTRIAL FUR
67-01 M20-58451
THE THERMAL DIFFUSIVITY AND THERMAL CONDUCTIVITY OF METALS AT HIGH TEMPERATURES
67-10 M15-78346
THE SPECIFIC HEATS OF HIGH-MELTING METALS AT HIGH TEMPERATURES AND THE FORMATION OF VACANCIES IN THEM 67-10 M15-78347
THERMOMAGNETIC EFFECTS IN SUPERCONDUCTING NIOBIUM
67-10 M15-79149
NIOBIUM, POWDER METALLURGY
OBTAINING NIOBIUM AND NIOBIUM ALLOY POWDERS FROM DENSE METALS AND ALLOYS BY HYDROGENATION
67-01 M09-57277
DIRECT CURRENT PLASMA--A NEW SPHEROIDIZING PROCESS
67-02 M09-59468
THE DEPENDENCE OF THE TECHNOLOGICAL PROPERTIES OF TANTALUM AND NIOBIUM ON THE PHYSICOCHEMICAL CHARACTERISTICS OF THEIR STARTING POWDERS
67-02 M09-62104
NIOBIUM, PRECIPITATION
ELECTRON MICROSCOPE STUDY OF NIOBIUM CONTAMINATED BY INTERSTITIAL ELEMENTS 67-02 M14-58926
NIOBIUM, QUATERNARY SYSTEMS
PHYSICOCHEMICAL STUDY OF ALLOYS OF THE NIOBIUM-TUNGSTEN-MOLYBDENUM CHROMIUM SYSTEM
67-06 M14-70164
STUDY OF THE NIOBIUM-ZIRCONIUM-HAFNIUM-CARBON SYSTEM 67-12 M13-83407
NIOBIUM, RADIATION EFFECTS
RADIATION DAMAGE IN BODY-CENTERED METALS
67-04 M16-67314
NIOBIUM, REACTIONS /CHEMICAL/
ADSORPTION, ABSORPTION, AND DEGASSING IN THE OXYGEN-NIOBIUM SYSTEM AT VERY LOW PRESSURE
67-07 M14-73453
NIOBIUM, REFINING
THE ELECTRON BOMBARDMENT SMELTING FURNACE OF LA CIE PECHINEY 67-03 M03-65194
OBTAINING PURE METALS BY CHEMICAL METHODS
67-04 M03-67843
INFLUENCE OF OXYGEN AND THE PARTIAL PRESSURE OF WATER VAPOR ON THE DEGASSING OF NB AND TA
67-08 M03-75050
NIOBIUM, ROLLING
SOME SPECIFIC FEATURES OF HOT ROLLING REFRACTORY METALS IN A VACUUM AND IN AN ATMOSPHERE OF INERT GAS 67-02 M07-62220
NIOBIUM, SINGLE CRYSTALS
X-RAY DIFFRACTION STUDY OF THE PERFECTION OF NIOBIUM SINGLE CRYSTALS 67-03 M14-65090
RECOVERY OF DEFORMED NIOBIUM AND TANTALUM DEGASSED IN ULTRA-HIGH VACUUM 67-11 M14-80632
NIOBIUM, SORPTION
STEADY STATES DURING ANNEALING NIOBIUM AND TANTALUM IN OXYGEN 67-06 M14-71666
NIOBIUM, SPECTRUM ANALYSIS
ELECTRON STRUCTURE OF ALLOYS OF THE CB-ZR SYSTEM
67-06 M16-71475
NIOBIUM, SUPERCONDUCTIVITY
MAKING EFFECTIVE USE OF SUPERCONDUCTING MAGNETS
67-01 M16-57233
SUPERCONDUCTING CONTACTS IN HIGH MAGNETIC FIELDS
67-01 M16-57973
50 CPS A-C LOSSES IN NIOBIUM-COPPER COMPOSITE CONDUCTORS AT 4.2 K 67-01 M16-58640
EFFECT OF SPECIMEN THICKNESS ON THE SUPERCONDUCTING BEHAVIOR OF NIOBIUM SINGLE CRYSTALS IN TORSION
67-03 M16-65224
SUPERCONDUCTIVITY AND SOME OF ITS APPLICATIONS
67-04 M16-66131
SUPERCONDUCTING CRITICAL FIELDS OF NIOBIUM THIN FILMS 67-04 M16-67552
MAGNETIC INVESTIGATION OF THE SUPERCONDUCTING BEHAVIOR OF SINTERED COMPACTS OF NIOBIUM AND COPPER-NIOBIUM 67-07 M16-73402
SUPERHEATING IN PURE SUPERCONDUCTING NIOBIUM
67-08 M16-74472
EFFECTS OF THE DEGREE OF DEFORMATION ON THE SUPERCONDUCTING PROPERTIES OF NIOBIUM AND VANADIUM 67-08 M16-74869
THE PENETRATION DEPTH IN TWO BAND MODEL SUPERCONDUCTORS 67-08 M16-75238
LOSSES OF SUPERCONDUCTING NIOBIUM IN LOW FREQUENCY FIELDS 67-08 M16-75654
ON THE NATURE OF THE CONNECTION OF THE SUPERCONDUCTING PROPERTIES OF NIOBIUM WITH MICROHARDNESS 67-09 M16-77767
DEPENDENCE OF THE CRITICAL CURRENT ON THE MAGNETIC FIELD STRENGTH AND EXPERIMENTAL REGULARITIES IN THE CHARACTER OF THE DESTRUCTION OF THE SUPERCONDUCTIVITY OF NIOBIUM BY A CURRENT AND A MAGNETIC FIELD 67-10 M16-79459
FREQUENCY EFFECT IN THE ULTRASONIC ATTENUATION IN NIOBIUM IN THE MIXED STATE 67-11 M16-80191
MEASUREMENT OF LOW JOINT RESISTANCE BETWEEN SUPERCONDUCTORS 67-11 M16-80333
THE IRREVERSIBLE BEHAVIOUR OF SUPERCONDUCTING NIOBIUM WIRE 67-11 M16-80908
NIOBIUM, SUPERCONDUCTORS
A NEW TYPE OF SUPERCONDUCTING NB3SN-TAPE
67-05 M16-69848
IRREVERSIBLE MAGNETIZATION IN SUPERCONDUCTORS
67-09 M16-77014
NIOBIUM, SYNTHESIS
THE PREPARATION OF HIGH-PURITY COLUMBIUM BY THERMAL DECOMPOSITION OF COLUMBIUM PENTACHLORIDE
67-09 M03-77144
NIOBIUM, TERNARY SYSTEMS
PHASE EQUILIBRIUM DIAGRAM OF THE SYSTEM OF THE INTERMETALLIC COMPOUNDS NBCR2-ZRCR2

67-02 M13-59594
INVESTIGATION OF THE SYSTEM TICR2-TACR2-NBCR2
67-02 M13-59610
INTERACTIONS BETWEEN THE COMPOUND NIAL AND NIOBIUM
67-02 M13-59891
X-RAY STRUCTURAL AND METALLOGRAPHIC INVESTIGATIONS OF NB-CO-C ALLOYS 67-02 M13-60741
PHASE EQUILIBRIUM DIAGRAM OF THE TI-NB-CR SYSTEM
67-02 M13-60743
PHASE EQUILIBRIA IN THE TERNARY SYSTEMS ZR-CO-C AND NB-FE-C 67-02 M13-61635
X-RAY INVESTIGATIONS IN A FEW T-T5-AL SYSTEMS
67-02 M13-61888
TERNARY CHEMICAL COMPOUNDS IN THE NI-TI-NB SYSTEM
67-02 M13-62183
X-RAY DIFFRACTION ANALYSIS OF THE NB-NI-AL SYSTEM
67-03 M13-65793
SUPERCONDUCTING CRITICAL FIELDS, CURRENTS AND TEMPERATURES IN THE NB-ZR-N TERNARY SYSTEM
67-03 M16-65390
STRUCTURE OF ALLOYS IN THE ZR-C-NB SYSTEM
67-04 M13-67097
PHASE DIAGRAM OF THE NB-TI-ZR SYSTEM AND SUPERCONDUCTING PROPERTIES OF THE ALLOYS OF THIS SYSTEM 67-05 M13-69640
SUPERCONDUCTIVITY OF CUBIC NIOBIUM CARBO-NITRIDES
67-05 M16-68288
NUCLEAR MAGNETIC RESONANCE AND SPECIFIC HEAT MEASUREMENTS OF TRANSITION METALS AND ALLOYS.. TI-V-FE AND ZR-NB-MO SYSTEMS 67-05 M16-69758
INTERACTION BETWEEN THE NBRU AND TARU COMPOUNDS
67-06 M13-70185
X-RAY DIFFRACTION STUDY OF THE SYSTEM NIOBIUM-TUNGSTEN-BORON 67-07 M13-73278
EXTENT AND LATTICE PARAMETERS OF THE LAVES PHASE FIELD IN THE FE-NB-SI SYSTEM 67-07 M13-74174
TERNARY SYSTEMS NIOBIUM-RHENIUM-CARBON AND TANTAL-RHENIUM-CARBON 67-08 M13-74309
SOLID SOLUTIONS IN THE ZR-NB-HF SYSTEM
67-08 M13-75896
TERNARY INTERMETALLIC COMPOUNDS IN THE SYSTEM NI-TI-NB 67-08 M13-75959
THE SYSTEM TICR2-TACR2-NBCR2 67-09 M13-76928
REACTIONS OF COMPOUNDS IN THE NB-C-O SYSTEM WITH CO OR CO2 67-09 M14-78220
SUPERCONDUCTING HC-JC AND TC MEASUREMENTS IN THE NB-TI-N, NB-HF-N AND NB-V-N TERNARY SYSTEMS
67-09 M16-77449
THE PHASE EQUILIBRIA IN THE TERNARY SYSTEMS ZIRCONIUM-VANADIUM-BORON, ZIRCONIUM-NIOBIUM-BORON AND ZIRCONIUM-MANGANESE-BORON
67-10 M13-79346
X-RAY STRUCTURE INVESTIGATIONS OF SUPERCONDUCTING ALLOYS WITH NIOBIUM AS THE BASE
67-10 M13-79542
CEMENTED CARBIDES WITH HIGH-MELTING BINDERS. PT. 2. TERNARY EQUILIBRIUM SYSTEMS 67-10 M14-79979
STUDY OF ATOMIC INTERACTION IN ALLOYS OF THE COLUMBIUM-TUNGSTEN-MOLYBDENUM SYSTEM
67-10 M16-79730
DUCTILE HIGH-TEMPERATURE NIOBIUM-NICKEL-ALUMINUM SYSTEM ALLOYS 67-10 M17-78967
INFLUENCE OF NIOBIUM ON THE SOLID STATE TRANSFORMATIONS IN VANADIUM-TANTALUM ALLOYS
67-12 M13-82424
ELECTRICAL RESISTANCE AND THERMAL EXPANSION OF TI-NB-CR ALLOYS 67-12 M15-82422

NIOBIUM, THERMAL PROPERTIES
THE PREDICTION OF THE TOTAL HEMISPHERICAL EMISSIVITIES OF POLISHED METALS FROM THEIR THERMAL CONDUCTIVITIES 67-06 M15-71048
INVESTIGATION OF TEMPERATURE DEPENDENCE OF THERMAL DIFFUSIVITY OF NIOBIUM AND TANTALUM
67-09 M14-76763

NIOBIUM, ULTRASONICS
ULTRASONIC ATTENUATION IN A PURE TYPE-2 SUPERCONDUCTOR NEAR NC2 67-04 M16-66660

NIOBIUM, WELDING
VACUUM SHIELDING OF METALS DURING WELDING
67-01 M11-57395
ELECTRON MECHANISM OF DIFFUSION WELDING
67-04 M11-66432
THE ELECTRON THEORY OF DIFFUSION WELDING
67-07 M11-72691
JOINING 67-11 M11-80482

NIOBIUM, WIRE
NB MICROWIRE FOR SUPERCONDUCTING MATERIALS
67-05 M16-68237

NIOBIUM, X RAY ANALYSIS
THE USE OF X-RAY FLUORESCENCE ANALYSIS AT LOW CONCENTRATIONS. ECONOMIC CONSIDERATIONS. APPLICATION TO THE CONTROL OF CB PRODUCTION
67-12 M19-83504

NIOBIUM BASE ALLOYS
ZR, HF, TI NEWSLETTER 67-04 M01-66684
COLUMBIUM WC-103 --HIGH TEMPERATURE ALLOY--
67-11 M01-81248

NIOBIUM BASE ALLOYS, AEROSPACE
EMERGING AEROSPACE MATERIALS AND FABRICATION TECHNIQUES 67-06 M20-72200

NIOBIUM BASE ALLOYS, ATOMIC PROPERTIES
ELECTRON STRUCTURES OF ALLOYS OF THE SYSTEM NB-ZR
67-12 M16-82796

NIOBIUM BASE ALLOYS, BRAZING
BRAZED GRAPHITE-METAL COMPOSITES FOR SPACE RADIATORS 67-04 M11-66386
BRAZING BREAKTHROUGH JOINS REFRACTORY HONEYCOMB
67-06 M11-70569

NIOBIUM BASE ALLOYS, CLAD METALS
COMPATIBILITY OF U-PU-FZ FUEL ALLOYS WITH POTENTIAL CLADDING MATERIALS 67-01 M14-58585

NIOBIUM BASE ALLOYS, COATING
REFRACTORY METALS--PROTECTION BY ALUMINIUM-TIN COATINGS 67-03 M12-65165
COATED COLUMBIUM ALLOYS FOR JET ENGINE TURBINE VANES 67-03 M18-65621
INFLUENCE OF BOOST GLIDE REENTRY VEHICLE ENVIRONMENT ON COATED AND BASE REFRACTORY METALS
67-04 M18-67214
THE ANODIC OXIDATION OF ALLOYS 67-05 M18-68619
PROTECTIVE COATINGS FOR REFRACTORY MATERIALS
67-08 M12-75862
OXIDATION RESISTANT COATINGS FOR REFRACTORY METALS IN AIRCRAFT GAS TURBINE ENGINES
67-12 M12-82078

NIOBIUM BASE ALLOYS, CORROSION
INVESTIGATION OF THE CORROSION RESISTANCE AND ELECTROCHEMICAL AND MECHANICAL PROPERTIES OF ALLOYS OF THE TITANIUM-NIOBIUM SYSTEM
67-01 M18-57641
INVESTIGATION OF THE CORROSION RESISTANCE AND THE ELECTROCHEMICAL AND MECHANICAL PROPERTIES OF ALLOYS OF THE NIOBIUM-TITANIUM SYSTEM
67-01 M18-57643
INVESTIGATION OF THE OXIDATION OF TUNGSTEN-NIOBIUM ALLOYS 67-02 M18-59895
CORROSION AND ELECTROCHEMICAL BEHAVIOR OF TITANIUM AND ITS ALLOYS IN EXTRACTING PHOSPHORIC ACID
67-02 M18-59898
KINETICS AND ACTIVATION ENERGY OF OXIDATION OF ALLOYS IN THE NB-V-TI SYSTEM 67-02 M18-60099
THE OXIDATION OF CB-ZR AND CB-ZR-RE ALLOYS IN OXYGEN AT 1000 C 67-03 M18-65094
THE RATE AT WHICH NIOBIUM-IRON AND NIOBIUM-COBALT ALLOYS ARE OXIDIZED AT HIGH TEMPERATURES
67-04 M18-66036
EVALUATION OF LI, NA, K, RB AND CS BOILING AND CONDENSING IN NB-1 PER CENT ZR CAPSULES
67-04 M18-66388
RESEARCH INTO THE OXIDATION OF NIOBIUM ALLOYED WITH VANADIUM, TITANIUM AND ZIRCONIUM
67-06 M18-70926
CAVITATION DAMAGE STUDIES WITH ROTATING DISK IN WATER 67-06 M18-71638
RESEARCH INTO THE HIGH-TEMPERATURE CORROSION-RESISTANCE OF ALLOYS OF TUNGSTEN WITH NIOBIUM AND TITANIUM 67-08 M18-75143
CORROSION OF METALS BY FLOWING LIQUID FLUORINE COMPOUNDS 67-10 M18-78475
POLYURETHANE-BASED PROTECTIVE LACQUERS FOR COPPER AND ZINC 67-11 M18-81490
RESEARCH INTO THE CORROSION RESISTANCE, ELECTROCHEMICAL AND MECHANICAL PROPERTIES, AND THE MICROSTRUCTURE OF NB-TA SYSTEM ALLOYS
67-12 M18-83370

NIOBIUM BASE ALLOYS, CRYSTAL LATTICES
THE INFLUENCE OF NEUTRON IRRADIATION ON TWINNING IN A NIOBIUM-VANADIUM ALLOY --40 PER CENT V--
67-01 M14-58472

NIOBIUM BASE ALLOYS, DIFFUSION
SELF-DIFFUSION OF NIOBIUM IN NB-TI AND NB-ZR ALLOYS
67-02 M14-62241
DETERMINATION OF THE DIFFUSION COEFFICIENT OF IMPURITIES BY ANELASTIC METHODS
67-04 M14-66223

NIOBIUM BASE ALLOYS, ELECTRICAL PROPERTIES
EFFECT OF MICROHETEROGENEITY ON SUPERCONDUCTIVE CHARACTERISTICS OF NB-ZR-TA ALLOY

NIOBIUM BASE ALLOYS

67-02 M16-59926
DEVELOPMENT AND EVALUATION OF MAGNETIC AND ELECTRICAL MATERIALS CAPABLE OF OPERATING IN THE 800 TO 1600 F. TEMPERATURE RANGE
67-06 M01-71855
ELECTRICAL RESISTANCE AND MAGNETIZATION OF TYPE 2 SUPERCONDUCTORS 67-06 M16-71991
EFFECT OF MICRONONHOMOGENEITY ON THE SUPERCONDUCTING CHARACTERISTICS OF THE ALLOY NB-ZR-TA 67-07 M16-72581
THE TEMPERATURE DEPENDENCE OF THE CRITICAL FIELD HC2 IN SOLID SOLUTION NB-TA ALLOYS
67-07 M16-73495
CRITICAL SURFACE CURRENTS AND THE ANGULAR DEPENDENCE OF THE SURFACE CRITICAL FIELD OF A TYPE 2 SUPERCONDUCTOR 67-07 M16-74058
DISTRIBUTION OF MAGNETIC FIELDS AND CURRENTS IN TYPE 2 SUPERCONDUCTORS 67-08 M16-75649

NIOBIUM BASE ALLOYS, EXTRUSION
VACUUM PRESSING OF HEAT RESISTANT METALS
67-12 M08-83024

NIOBIUM BASE ALLOYS, FORGING
FORGING TECHNOLOGY EXPANDS TO MEET MARKET NEEDS
67-11 M07-80300

NIOBIUM BASE ALLOYS, HEAT TREATMENT
CARBURIZATION OF NIOBIUM- AND TANTALUM-BASE ALLOYS
67-06 M10-70797
AGING IN NIOBIUM-RICH NIOBIUM-HAFNIUM-CARBON ALLOYS
67-06 M10-71411
DISPERSION-STRENGTHENING IN NIOBIUM-BASE ALLOYS
67-09 M10-77289

NIOBIUM BASE ALLOYS, MAGNETIC PROPERTIES
CRITICAL CURRENT OF TOROIDAL SUPERCONDUCTING NIOBIUM-ZIRCONIUM WIRES 67-05 M15-68336
NUCLEAR MAGNETIC RESONANCE AND MAGSUSCEPTIBILITIES OF V-NB ALLOYS 67-08 M16-74662
THE SUPERCONDUCTING GRADE 65BT ALLOY
67-08 M20-75442
A METHOD FOR EVALUATING THE STABILITY OF COMPOSITE SUPERCONDUCTORS 67-11 M16-81086
MAGNETIC PROPERTIES OF RIGID SUPERCONDUCTORS
67-12 M15-82328

NIOBIUM BASE ALLOYS, MECHANICAL PROPERTIES
EFFECT OF ALLOYING ON THE NATURE OF THE INTERATOMIC INTERACTION IN NIOBIUM-BASE SOLID SOLUTIONS
67-01 M17-58187
THE EFFECT OF NITROGEN ON THE TENSILE AND CREEP-RUPTURE PROPERTIES OF NIOBIUM
67-01 M17-58459
NIOBIUM ALLOYS CONTAINING BERYLLIUM
67-01 M17-58538
REFRACTORY METALS --CB, TA, MO, W--
67-02 M01-61817
INVESTIGATION OF THE EFFECT OF COMPLEX ALLOYING ON THE PHYSICAL AND MECHANICAL PROPERTIES OF NIOBIUM
67-02 M17-59873
ELASTIC CHARACTERISTICS OF NIOBIUM-ALUMINIUM ALLOYS
67-02 M17-61178
INVESTIGATION OF THE PROPERTIES OF CERTAIN NIOBIUM ALLOYS 67-02 M17-61556
CREEP-RUPTURE PROPERTIES UNDER CONDITIONS OF CONSTANT AND VARYING STRESSES
67-03 M17-65017
NEW VANADIUM-COLUMBIUM ALLOYS RESIST HIGH AND LOW TEMPERATURES 67-03 M17-65211
A TEMPERATURE-INDEPENDENT ELASTIC MODULUS IN DECOMPOSING NIOBIUM-ZIRCONIUM ALLOYS
67-03 M17-65917
STRUCTURE AND MECHANICAL PROPERTIES OF CB-V-TI ALLOYS 67-04 M13-66447
STRUCTURE AND SOME PROPERTIES OF A CB-TA ALLOY WITH ADDITIONS OF W AND MO 67-04 M17-66444
MECHANICAL PROPERTIES OF COLUMBIUM AND ITS ALLOYS AT LOW TEMPERATURES 67-04 M17-66448
DEVELOPMENT OF NIOBIUM-ZIRCONIUM-CARBON ALLOYS
67-06 M17-71057
THE INFLUENCE OF SOME SOLUTES ON YOUNGS MODULUS OF NIOBIUM 67-06 M17-71063
EFFECT OF IRRADIATION ON BEND TRANSITION TEMPERATURES OF MOLYBDENUM- AND COLUMBIUM-BASE ALLOYS 67-07 M17-73380
COLUMBIUM AND TANTALUM ALLOY DEVELOPMENT
67-08 M01-74672
REFRACTORY METALS --CB, TA, MO, W--
67-08 M01-75390
NIOBIUM SPRING ALLOY WITH A STABLE ELASTIC MODULUS AT HIGH TEMPERATURES 67-08 M17-74983
THE STRENGTH AND DUCTILITY OF CERTAIN NIOBIUM-BASE SINGLE-AND TWO-PHASE ALLOYS PRODUCED BY ELECTRON-BEAM MELTING 67-08 M17-75027
RESEARCH INTO THE STRUCTURE AND PROPERTIES OF MOLYBDENUM-NIOBIUM SYSTEM ALLOYS IN THE MONOCRYSTALLINE STATE 67-08 M17-75447
ANOMALIES OF THE TEMPERATURE DEPENDENCE OF YOUNGS MODULUS OF NIOBIUM-ZIRCONIUM ALLOYS AND OF PURE NIOBIUM 67-09 M17-76791
EFFECT OF CARBON ON THE STRUCTURE AND TENSILE PROPERTIES OF NIOBIUM AND ITS ALLOYS
67-09 M17-77290
COLUMBIUM ALLOYS 67-09 M17-77327
MECHANICAL PROPERTIES OF NIOBIUM-HYDROGEN ALLOYS
67-09 M17-78221
REFRACTORY METALS CB, TA, MO, W
67-10 M01-79801
INFLUENCE OF ALLOYING ELEMENTS ON MECHANICAL PROPERTIES AND RECRYSTALLIZATION POINT OF TA-33 PER CENT CB ALLOY 67-10 M17-79142
STRUCTURE AND MECHANICAL PROPERTIES OF NB-V-TI ALLOYS 67-11 M13-80988
THE TENSILE STRENGTH OF NIOBIUM-MOLYBDENUM ALLOYS
67-11 M17-80318
SELECTED MECHANICAL PROPERTIES OF CLADDING AND STRUCTURAL MATERIALS 67-11 M17-80474
THE MECHANICAL BEHAVIOR OF REFRACTORY-METAL ALLOYS
67-11 M17-80791
STRUCTURE AND SOME PROPERTIES OF NIOBIUM-TANTALUM ALLOYS CONTAINING TUNGSTEN AND MOLYBDENUM
67-11 M17-80985
MECHANICAL PROPERTIES OF NIOBIUM AND NIOBIUM ALLOYS AT LOW TEMPERATURE 67-11 M17-80989
MECHANICAL PROPERTIES OF NB-ZR SOLID SOLUTION ALLOYS 67-11 M17-81064
ELASTIC PROPERTIES OF BINARY NIOBIUM ALLOYS CONTAINING TUNGSTEN, MOLYBDENUM, IRON AND NICKEL
67-11 M17-81170
TORSION STUDY OF CREEP IN NIOBIUM ALLOYS
67-11 M17-81422
THE INFLUENCE OF ZIRCONIUM ON DYNAMIC STRENGTHENING OF NIOBIUM ALLOYS
67-12 M17-81826
THE PRINCIPLE OF HEAT RESISTANT ALLOYING
67-12 M17-81832
ELEVATED-TEMPERATURE TENSILE DUCTILITY MINIMUM IN SILICIDE COATED CB-1W AND CB-10W-2.5ZR
67-12 M17-83047

NIOBIUM BASE ALLOYS, MELTING
ELECTRON BEAM MELTING OF COLUMBIUM-BASE AND TITANIUM-BASE ALLOYS 67-08 M03-75212

NIOBIUM BASE ALLOYS, METALLOGRAPHY
ELECTRON METALLOGRAPHY TECHNIQUES APPLIED TO BODY CENTERED CUBIC METALS AND ALLOYS
67-01 M13-58761
ANODIC OXIDATION OF NB-SN ALLOYS
67-03 M13-65904

NIOBIUM BASE ALLOYS, MICROSCOPY
METALLOGRAPHIC INVESTIGATIONS WITH THE EMISSION ELECTRON MICROSCOPE 67-03 M13-65902

NIOBIUM BASE ALLOYS, MICROSTRUCTURE
STRUCTURAL CHANGES IN DEFORMED COLUMBIUM AND ITS ALLOYS DURING HEATING 67-04 M14-66445
THE FORMATION OF THE ROLLING TEXTURE OF BODY-CENTERED CUBIC METALS AND ALLOYS
67-06 M13-71657
CHANGES IN THE STRUCTURE OF DEFORMED NIOBIUM AND NIOBIUM ALLOYS DURING HEATING
67-11 M14-80986

NIOBIUM BASE ALLOYS, OPTICAL PROPERTIES
OPTICAL PROPERTIES OF SUPERCONDUCTING NB-TI ALLOYS
67-08 M15-74637

NIOBIUM BASE ALLOYS, PHASE TRANSFORMATIONS
PHASE TRANSFORMATIONS IN CB-TI-ZR ALLOYS
67-12 M14-81845

NIOBIUM BASE ALLOYS, PHASES /STATE OF MATTER/
PHYSICOCHEMICAL STUDY OF ALLOYS OF THE NIOBIUM-TUNGSTEN-MOLYBDENUM CHROMIUM SYSTEM
67-06 M14-70164
X-RAY INVESTIGATION OF THE NB-FE SYSTEM AND THE DETERMINATION OF THE THERMODYNAMIC PROPERTIES OF THE COMPOUND NBFE2 67-12 M13-82166

NIOBIUM BASE ALLOYS, PHYSICAL PROPERTIES
WORK FUNCTION OF W-HF, TA-HF, NB-HF, RE-HF, RE-ZR, W-RE ALLOYS 67-02 M15-59929
MASS TRANSFER OF NIOBIUM-BASE ALLOYS IN FLOWING NONISOTHERMAL LITHIUM 67-04 M14-66387
WORK FUNCTION OF ALLOYS W-HF, TA-HF, NB-HF, RE-HF, RE-ZR AND W-RE 67-07 M15-72584
STUDY OF COLUMBIUM-BASE ALLOYS 67-09 M01-77692
PHYSICAL AND MECHANICAL PROPERTIES OF TI-NB-MO

ALLOYS 67-12 M15-82161
RESEARCH INTO THE INTERATOMIC REACTIONS IN NIOBIUM-TUNGSTEN-MOLYBDENUM SYSTEM ALLOYS 67-12 M17-82497

NIOBIUM BASE ALLOYS, REACTIONS /CHEMICAL/
CARBON AND NITROGEN TRANSFER IN A TYPE-316 STAINLESS STEEL, CB-1 PER CENT ZR, LIQUID-POTASSIUM SYSTEM 67-04 M14-66389
A STUDY OF THE COMPATIBILITY OF SELECTED REFRACTORY METALS WITH VARIOUS CERAMIC INSULATION MATERIALS 67-04 M18-67270

NIOBIUM BASE ALLOYS, ROLLING
THE REFRACTORY METALS SHEET ROLLING PROGRAM 67-06 MC7-70124

NIOBIUM BASE ALLOYS, SPECTRUM ANALYSIS
ELECTRON STRUCTURE OF ALLOYS OF THE CB-ZR SYSTEM 67-06 M16-71475

NIOBIUM BASE ALLOYS, SUPERCONDUCTIVITY
PREPARATION AND INVESTIGATION OF SUPERCONDUCTING NICBIUM-ZIRCONIUM WIRE 67-02 M15-60799
NIOBIUM-TITANIUM ALLOY SOLENOID 67-02 M15-60891
SUPERCONDUCTING NIOBIUM ALLOYS WITH ZIRCONIUM AND EFFECT OF HEAT TREATMENT ON THEIR PROPERTIES 67-02 M15-60892
SUPERCONDUCTIVITY AND CRYOGENIC TECHNOLOGY 67-02 M16-59621
DISTRIBUTION OF NORMAL REGION AFTER S-N TRANSITION IN A SUPERCONDUCTING MAGNET 67-02 M16-60518
SUPERCONDUCTING SOLENOIDS MADE FROM NIOBIUM ALLOYS WITH ZIRCONIUM 67-02 M20-59645
EFFECT OF MICROHETEROGENEITY ON CRITICAL CURRENTS OF SUPERCONDUCTING ALLOYS 67-04 M16-66500
DIRECT EVIDENCE OF PERSISTENT CURRENT LOOPS IN HARD SUPERCONDUCTING WIRE 67-04 M16-68072
THE EFFECT OF HIGH PRESSURE ON THE SUPERCONDUCTING TRANSITION TEMPERATURE OF THE ALLOYS MO90RE10 AND NB75MO25 67-05 M16-69026
SURFACE CURRENTS IN TYPE 2 SUPERCONDUCTORS 67-06 M16-70467
PROBABLE UPPER LIMIT OF HC2 FOR SOME HIGHER-ORDER DUCTILE TRANSITION-METAL SUPERCONDUCTING ALLOYS 67-07 M16-72663
MAGNETIC INVESTIGATION OF THE SUPERCONDUCTING BEHAVIOR OF SINTERED COMPACTS OF NIOBIUM AND COPPER-NIOBIUM 67-07 M16-73402
ALMOST IDEAL BEHAVIOR IN SOME TYPE 2 SUPERCONDUCTING ALLOYS 67-08 M16-75651
CORRELATION BETWEEN CRITICAL CURRENTS AND CRITICAL MAGNETIC FIELDS IN A NONIDEAL TYPE 2 SUPERCONDUCTOR 67-08 M16-75665
THE HALL ANGLE OF VARIOUS SUPERCONDUCTING NIOBIUM-TANTALUM ALLOYS IN THE MIXED STATE 67-09 M16-77672
FAR-INFRARED ABSORPTION IN SUPERCONDUCTING NIOBIUM ALLOYS 67-09 M16-77685
EFFECT OF PLASTIC STRAIN ON CRITICAL CURRENT DENSITY OF SOME SUPERCONDUCTING ALLOYS 67-09 M16-77783
CRITICAL CONDUCTION AND INDUCED CURRENTS IN THE SURFACE OF NB --25 PER CENT -- ZR RIBBON AT LOW FIELDS 67-10 M16-78396
A COMPARATIVE REVIEW OF MATERIALS FOR CONSTRUCTION OF SUPERCONDUCTING SOLENOIDS 67-10 M16-78779
STUDIES OF SUPERCONDUCTING NB-25 PER CENT ZR WIRES CARRYING ALTERNATING CURRENT IN AN AXIALLY APPLIED MAGNETIC FIELD 67-12 M16-82389
EFFECT OF VANADIUM ADDITIONS ON THE STRUCTURE AND SUPERCONDUCTING PROPERTIES OF NIOBIUM-ZIRCONIUM ALLOYS 67-12 M16-82419
PEAK EFFECT IN SUPERCONDUCTING NB-15 AT. PER CENT ZR-45 AT. PER CENT TI ALLOYS 67-12 M16-83258

NIOBIUM BASE ALLOYS, SUPERCONDUCTORS
SOME TECHNIQUES FOR SENSITIVE MAGNETIC MEASUREMENTS USING SUPERCONDUCTING CIRCUITS AND MAGNETIC SHIELDS 67-06 M16-70549

NIOBIUM BASE ALLOYS, SURFACE PROPERTIES
USE OF YTTRIUM IN GETTERING OXYGEN AND NITROGEN IN NIOBIUM-BASE ALLOYS 67-02 M13-61777
IMPROVING OXIDATION RESISTANCE OF COLUMBIUM AT HIGH TEMPERATURES 67-05 M18-69011

NIOBIUM BASE ALLOYS, THERMAL PROPERTIES
THERMAL EXPANSION OF SOLID SOLUTIONS OF REFRACTORY METALS OF THE 4, 5, AND 6 GROUPS IN THE PERIODIC TABLE 67-01 M15-58081
SPECIFIC HEAT OF NB-ZR ALLOYS AT LOW TEMPERATURE 67-05 M15-69203
THERMAL EXPANSION OF SOLID SOLUTIONS OF METALS OF GROUPS VI, V AND IV OF THE PERIODIC SYSTEM WITH HIGH MELTING POINTS 67-08 M15-74995
ALKALI-METAL, RANKINE-CYCLE POWER SYSTEMS FOR ELECTRIC PROPULSION 67-10 M20-79732

NIOBIUM BASE ALLOYS, WELDING
METALS JOINING 67-04 M11-66193
CHARACTERISTIC REDISTRIBUTION OF SOLUTE IN FUSION WELDING 67-04 M11-67036
WELDING OF REFRACTORY ALLOYS 67-08 M11-74463
JOINING 67-11 M11-80482
POROSITY IN WELD METAL DURING FUSION WELDING OF NIOBIUM ALLOYS 67-11 M11-80549

NIOBIUM BASE ALLOYS, X RAY ANALYSIS
A METHOD OF QUALITATIVE LOCAL X-RAY DIFFRACTION 67-12 M19-82303

NIOBIUM COMPOUNDS, ATOMIC PROPERTIES
N. M. R. INVESTIGATION OF THE ATOMIC AND ELECTRONIC STRUCTURE OF VANADIUM AND NIOBIUM CARBIDES 67-10 M16-79117

NIOBIUM COMPOUNDS, BENEFICIATION
KINETICS OF THE CHLORINATION OF NIOBIUM PENTOXIDE WITH CHLORINE IN PRESENCE OF EXCESS OF GRAPHITE POWDER 67-09 M02-78138
MAGNETIC BENEFICIATION OF PYROCHLORE-ZIRCONIUM FLOTATION CONCENTRATES 67-11 M02-81229
EFFECT OF THE COMPOSITION OF SOME NONSULFIDE MINERALS ON THE MECHANISM OF INTERACTION WITH OLEIC ACID 67-12 M02-83367

NIOBIUM COMPOUNDS, BINARY SYSTEMS
THE REACTION OF VANADIUM, NIOBIUM, AND TANTALUM DIBORIDES WITH CARBON 67-02 M09-61791
OXIDATION RESISTANCE OF ALLOYS BASED ON TUNGSTEN AND NIOBIUM SILICIDES 67-07 M15-73280
SUPERCONDUCTIVITY OF THE TRANSITION-METAL CARBIDES 67-10 M16-78733

NIOBIUM COMPOUNDS, CASTING
SLIP CASTING OF NIOBIUM CARBIDE 67-12 M09-82205

NIOBIUM COMPOUNDS, CHLORINATION
ON THE KINETICS OF CHLORINATING NIOBIUM PENTOXIDE 67-03 M03-65582
REACTION KINETICS OF TITANIUM AND NIOBIUM OXIDES IN A FUSED SYSTEM WITH SODIUM CHLOROALUMINATE 67-06 M02-71880

NIOBIUM COMPOUNDS, CORROSION
CORROSION OF COLUMBIUM CARBIDE AT HIGH TEMPERATURES IN INERT GASES OF TECHNICAL PURITY 67-10 M18-79676

NIOBIUM COMPOUNDS, CRYSTAL GROWTH
SYNTHESIS OF A NEW DOUBLE OXIDE OF URANIUM AND NIOBIUM 67-02 M14-60556
TRANSPORT REACTIONS OF THE SILICIDES AND BORIDES OF TRANSITION METALS 67-03 M14-65184

NIOBIUM COMPOUNDS, CRYSTAL LATTICES
LOWER-TEMPERATURE MODIFICATIONS OF NB2C AND V2C 67-09 M13-76400
THE CRYSTAL STRUCTURE OF THE SUBCARBIDES OF TRANSITION METALS 67-10 M13-79922

NIOBIUM COMPOUNDS, CRYSTAL STRUCTURE
STUDIES ON STRUCTURAL DEFECTS IN WOLFRAM TRIOXIDE., INFLUENCE OF MINOR ADDITIONS OF TANTALA OR NIOBIA 67-02 M13-60923

NIOBIUM COMPOUNDS, DIFFUSION
RECIPROCAL DIFFUSION OF NIOBIUM AND METALS OF THE IVA, VA, VIA GROUPS 67-10 M14-79237

NIOBIUM COMPOUNDS, ELECTRIC HEATING ELEMENTS
HIGH-TEMPERATURE HEATERS OF NIOBIUM AND ZIRCONIUM CARBIDES 67-02 M09-61795

NIOBIUM COMPOUNDS, ELECTRICAL PROPERTIES
SUPERCONDUCTING TRANSITION TEMPERATURES AND LATTICE CONSTANTS FOR THE PSEUDOBINARY SYSTEM NB3AL-NB3SB 67-02 M16-61570
SOME ELECTROPHYSICAL PROPERTIES OF NIOBIUM AND ZIRCONIUM CARBIDES IN THEIR HOMOGENEOUS REGIONS 67-06 M15-72041
VARIATIONS OF THE ELECTRICAL CONDUCTIVITY OF TITANIUM AND NIOBIUM OXIDES WITH THE PARTIAL BALANCING OF O2 PRESSURE AT HIGH TEMPERATURE 67-10 M15-79708

NIOBIUM COMPOUNDS, EVAPORATION
THE EVALUATION OF GRAVIMETRIC MEASUREMENTS DURING EVAPORATION OF TWO COMPOUNDS FROM A BINARY SOLUTION 67-01 M14-57295

NIOBIUM COMPOUNDS, EXTRACTION
CHLORINATION OF TANTALUM-NIOBIUM CONCENTRATES UNDER LABORATORY CONDITIONS 67-11 M02-81230

NIOBIUM COMPOUNDS, MECHANICAL PROPERTIES
HYDROGEN EMBRITTLEMENT OF NIOBIUM-OXYGEN AND NIOBIUM-NITROGEN SOLID SOLUTIONS AT ROOM TEMPERATURE 67-10 M17-80024

NIOBIUM COMPOUNDS

NIOBIUM COMPOUNDS, MICROSTRUCTURE
DEPENDENCE OF GRAIN NBCO.80 SIZE ON TEMPERATURE
67-02 M13-60180
ON THE SUPERSTRUCTURES OF TA2O5 AND NB2O5
67-06 M13-70985
TEMPERATURE DEPENDENCE OF THE GRAIN SIZE OF NBCO.80
67-09 M13-76913
NIOBIUM COMPOUNDS, MOSSBAUER EFFECT
TEMPERATURE-DEPENDENT ISOMER SHIFT AND ANHARMONIC BINDING OF SN119 IN NB3SN 67-06 M16-71173
NIOBIUM COMPOUNDS, OXIDATION
CORROSION OF COLUMBIUM CARBIDE AT HIGH TEMPERATURE IN THE MEDIUM OF COMMERCIALLY PURE INERT GASES
67-07 M18-73656
NIOBIUM COMPOUNDS, PHASE TRANSFORMATIONS
STUDY OF PHASE TRANSITION IN NBC2
67-08 M13-75251
NIOBIUM COMPOUNDS, PHASES /STATE OF MATTER/
THE LOWER OXIDES OF NIOBIUM 67-01 M14-58535
NIOBIUM COMPOUNDS, PHYSICAL PROPERTIES
MEASUREMENT OF THE THERMAL CONDUCTIVITY AND ELECTRICAL CONDUCTIVITY OF ZRC, HFC, NBC AND TAC AT HIGH TEMPERATURES 67-01 M15-58057
SOME PHYSICAL PROPERTIES OF NIOBIUM MONOCARBIDE IN THE HOMOGENEITY REGION 67-04 M15-67860
SOME PHYSICAL PROPERTIES OF ALLOYS OF THE ZRC-NBC AND TAC-HFC SYSTEMS 67-06 M15-71472
PHYSICAL PROPERTIES OF SOLID SOLUTIONS IN THE SYSTEM CBC-MO3C2 67-08 M15-74312
SOME PHYSICAL PROPERTIES OF ALLOYS OF THE SYSTEMS ZRC-NBC AND TAC-HFC 67-12 M15-82793
NIOBIUM COMPOUNDS, POWDER METALLURGY
PRODUCING NIOBIUM CARBIDE WITH A LOW NITROGEN CONTENT 67-02 M09-62054
LARGE PARTS OF REFRACTORY CARBIDES
67-10 M09-79580
NIOBIUM COMPOUNDS, REACTIONS /CHEMICAL/
KINETICS OF THE CHLORINATION OF NIOBIUM PENTOXIDE WITH CHLORINE IN PRESENCE OF EXCESS OF GRAPHITE POWDER 67-01 M14-57497
CHLORINATING NBOCL3 AND TIO2 ON A CARBON SETTING
67-02 M03-61722
INVESTIGATION OF INITIAL STAGES OF INTERACTION OF OXIDES OF CERTAIN METALS WITH CARBON
67-02 M14-60543
ON THE INTERACTION BETWEEN NIOBIUM PENTACHLORIDE AND OXYGEN 67-02 M14-61550
THE NATURE OF THE INTERACTION OF ZIRCONIUM DIOXIDE WITH TITANIUM, NIOBIUM AND CHROMIUM CARBIDES
67-06 M14-71101
STABILITY OF THE HYDRIDES OF CERTAIN TRANSITION METALS WHEN HEATED IN VACUUM 67-06 M15-70160
INVESTIGATION OF THE CONDITIONS OF PREPARING NIOBIUM NITRIDE AND CARBONITRIDE FROM NIOBIUM PENTOXIDE 67-10 M14-79920
NIOBIUM COMPOUNDS, REDUCTION /CHEMICAL/
REDUCING NIOBIUM PENTACHLORIDE BY HYDROGEN
67-06 M03-70000
INVESTIGATION OF THE REDUCTION OF NIOBIUM PENTACHLORIDE BY HYDROVEN 67-10 M03-79137
KINETICS OF JOINT CARBOTHERMIC REDUCTION OF NIOBIUM AND TUNGSTEN 67-12 M03-83095
NIOBIUM COMPOUNDS, SINTERING
INVESTIGATION OF SINTERING AND PROPERTIES OF SOLID SOLUTIONS OF TIC AND ZRC CARBIDES WITH NBC
67-08 M09-74306
NIOBIUM COMPOUNDS, SOLUBILITY
SOLUBILITY OF NBC IN 20 PER CENT CR-25 PER CENT NI STAINLESS STEEL 67-08 M14-75812
NIOBIUM COMPOUNDS, SUPERCONDUCTIVITY
SUPERCONDUCTING CONTACTS IN HIGH MAGNETIC FIELDS
67-01 M16-57973
NATURE, SIZE AND DISTRIBUTION OF LATTICE DEFECTS AND THEIR INFLUENCE ON THE HIGH-FIELD PROPERTIES OF THE TYPE 3 SUPERCONDUCTOR NB-ZR 25
67-06 M16-71728
SUPERCONDUCTIVITY AT 20 DEGREES KELVIN
67-07 M16-74245
SUPERCONDUCTIVE ANOMALY IN SPECIFIC HEATS OF LAYER STRUCTURE COMPOUNDS 67-08 M16-74429
SUPERCONDUCTIVITY AND HARDNESS 67-11 M16-80773
NIOBIUM COMPOUNDS, THERMAL PROPERTIES
HIGH-TEMPERATURE THERMAL EXPANSION OF CERTAIN GROUP 4 AND GROUP 5 DIBORIDES 67-06 M15-71162
NIOBIUM COMPOUNDS, THERMODYNAMICS
ENTHALPY AND THERMAL CAPACITY OF NIOBIUM AND ZIRCONIUM CARBIDES AT 500 TO 2400 K
67-09 M15-76765
NIOBIUM COMPOUNDS, TRANSPORT PROPERTIES
ON THE NATURE OF HEAT CONDUCTIVITY OF CARBIDES OF SOME TRANSITION METALS OF GROUPS 4 AND 5
67-06 M15-71470
ELECTRONIC AND IONIC CONDUCTIVITY IN NB2O5
67-11 M15-81690
NATURE OF THE THERMAL CONDUCTIVITY IN THE CARBIDES OF SOME TRANSITION METALS OF GROUPS 4 AND 5
67-12 M15-82791

NITRATES
SEE NITRIC ACID
NITRATING
SEE NITRATION
NITRATION
KINETICS OF NITROGEN TRANSFER THROUGH AN IRON SURFACE 67-03 M14-65425
NITRIC ACID, CORROSION ENVIRONMENTS
CORROSION OF TITANIUM ALLOYS IN NITRIC ACID AT HIGH TEMPERATURE 67-05 M18-69826
INFLUENCE OF VARIOUS OXIDIZING AGENTS AND TRACES OF SULFATE IONS ON THE CORROSION OF A SILICON AUSTENITIC STEEL IN A NITRIC ACID MEDIUM
67-12 M18-82138
BEHAVIOR OF TITANIUM ALLOYS IN NITRIC ACID AT HIGH TEMPERATURES 67-12 M18-82260
NITRIDES
STRENGTHENING LOW-ALLOY STEEL WITH VANADIUM NITRIDES 67-04 M17-67929
STUDY OF NITROGEN-CONTAINING LOW-ALLOY STEEL
67-06 M13-70914
COMPLEX NITRIDE IN CR-NI-NB STEELS
67-10 M19-79775
STUDY OF NITRIDES IN WELD METAL DURING OPEN ARC WELDING OF STEEL 67-11 M11-80637
NITRIDES, ALLOYING ADDITIVE
THE POSSIBLE FIXATION OF NITROGEN BY CHROMIUM AND VANADIUM DEEP DRAWING RIMMING STEELS TO REDUCE THE SUSCEPTIBILITY TO AGING 67-02 M10-59109
NITRIDES, ALLOYING EFFECTS
CONDITIONS FOR THE EXISTENCE OF A NITRIDE PHASE IN NICKEL ALLOYS CONTAINING TITANIUM, ZIRCONIUM AND ALUMINUM 67-08 M13-74339
NITRIDES, BAND THEORY
X-RAY SPECTRA, ELECTRON STRUCTURE AND PROPERTIES OF TITANIUM METALLIC COMPOUNDS 67-04 M16-67372
NITRIDES, CHEMICAL ANALYSIS
ANALYSIS OF NITRIDES IN BORON STEELS BY EXTRACTION OF NONMETALLIC PHASES 67-06 M19-71568
NITRIDES, CHEMICAL BONDS
NATURE OF THE CHEMICAL BOND IN THE CARBIDES AND NITRIDES OF TRANSITION METALS
67-02 M16-61671
NITRIDES, COATING
DEPOSITION OF TANTALUM, TANTALUM OXIDE, AND TANTALUM NITRIDE WITH CONTROLLED ELECTRICAL CHARACTERISTICS 67-01 M12-57107
NITRIDES, CORROSION
OXIDATION-RESISTANT HARD MATERIALS
67-06 M18-70080
APPLICATION OF REFRACTORY COMPOUNDS IN PRODUCTION OF CHLORINE AND CAUSTIC 67-10 M18-79342
NITRIDES, CRUCIBLE FURNACES
POWDER METALLURGY CRUCIBLE MATERIALS FOR THE MELTING AND EVAPORATION OF METALS
67-11 M09-80340
NITRIDES, CRYSTAL GROWTH
PYROLYTIC MATERIALS 67-02 M14-60711
MEASUREMENT OF NITRIDE KINETICS ON CHROMIUM BY ELLIPSOMETRY 67-06 M14-71622
NITRIDES, CRYSTAL LATTICES
STRUCTURE OF CUBIC TUNGSTEN NITRIDE
67-04 M13-66394
STRUCTURE OF CUBIC TUNGSTEN NITRIDE
67-05 M13-68592
SOME ADVANCES IN THE STRUCTURAL CHEMISTRY OF ALLOYS --T-X AND T-M-X PHASES-- 67-10 M13-78705
STRUCTURE INVESTIGATIONS OF TWO URANIUM NITRIDES U2N3 PLUS X 67-11 M13-80624
NITRIDES, DISPERSION HARDENING
DISPERSION HARDENING OF STEELS BY THE PRECIPITATION OF NITRIDE PHASES 67-04 M10-67384
NITRIDES, DISSOLVING
DISSOLUTION OF COMMERCIALLY AVAILABLE SILICON NITRIDE INTO LIQUID IRON 67-08 M14-75305
NITRIDES, ELECTRICAL PROPERTIES
SUPERCONDUCTING CRITICAL TEMPERATURES OF NONSTOICHIOMETRIC TRANSITION METAL CARBIDES AND NITRIDES 67-02 M16-60627
WORK FUNCTION OF METALS 67-06 M16-70492
NITRIDES, ETCHING

DISTINGUISHING BETWEEN IRON CARBIDE AND IRON PHOSPHIDE BY ETCHING 67-01 M13-57385
NITRIDES, FIBER METALLURGY
USE OF BORON NITRIDE FIBERS IN COMPOSITES 67-07 M09-73342
NITRIDES, GRAIN GROWTH
INHIBITION OF AUSTENITIC GRAIN GROWTH BY ALUMINIUM NITRIDE 67-06 M14-71335
NITRIDES, INCLUSIONS
ON THE SOLUBILITY OF THE NITRIDES OF CHROMIUM, VANADIUM AND ALUMINUM IN AUSTENITE 67-04 M14-67391
STUDY OF THE CONDITIONS OF ALUMINUM NITRIDE FORMATION IN TRANSFORMER STEEL DURING HEATING 67-05 M13-68556
RESEARCH INTO CONDITIONS UNDER WHICH ALUMINIUM NITRIDES ARE FORMED IN TRANSFORMER STEEL WHEN IT IS HEATED 67-07 M13-72467
NITRIDES, MAGNETIC PROPERTIES
SPONTANEOUS MAGNETIZATION OF EUO AND GDN 67-03 M15-65145
LOCALIZED MAGNETIC MOMENTS IN MN4N 67-03 M15-65638
NITRIDES, MECHANICAL PROPERTIES
CERAMIC PARTS 67-02 M05-61100
REVIEW OF SELECTED PROPERTY DATA 67-02 M17-60715
DEVELOPMENT OF ADVANCED CERAMIC CUTTING TOOLS 67-12 M17-82947
NITRIDES, METALLOGRAPHY
HOW TO DISTINGUISH IRON CARBIDE FROM IRON NITRIDES BY ETCHING 67-07 M13-72677
NITRIDES, NUCLEAR FUELS
CARBIDE AND NITRIDE FUELS--PROPERTIES AND BEHAVIOR 67-09 M16-77316
NITRIDES, NUCLEAR PROPERTIES
PROPERTIES OF PLUTONIUM MONONITRIDE AND ITS ALLOYS 67-09 M01-76342
NITRIDES, OXIDATION
STABILITY OF SOME REFRACTORY MATERIALS IN CRYOLITE-ALUMINA MELTS 67-05 M03-68959
NITRIDES, PHASES /STATE OF MATTER/
HEXAGONAL URANIUM NITRIDE 67-05 M13-69344
SIX NEW MANGANESE NITRIDES OF PEROWSKITE TYPE 67-09 M14-78015
NITRIDES, PHYSICAL PROPERTIES
MODERN CERAMICS--SOME PRINCIPLES AND CONCEPTS 67-02 M05-60701
PROSPECTS OF PRODUCING MATERIALS WITH SPECIAL PHYSICAL PROPERTIES IN THE ALUMINUM-BORON-NITROGEN SYSTEM 67-06 M15-70184
SOME PROPERTIES OF PYROLYTIC CARBIDES AND NITRIDES OF GROUP 4 METALS 67-06 M15-71471
ENGINEERING PROPERTIES OF SELECTED CERAMIC MATERIALS 67-07 M05-73875
SOME PROPERTIES OF PYROLYTIC CARBIDES AND NITRIDES OF GROUP 4 METALS 67-12 M15-82792
VAPOR PRESSURE, ENTHALPY, EVAPORATION COEFFICIENT AND ENTHALPY OF ACTIVATION OF THE BERYLLIUM NITRIDE --BE3N2-- DECOMPOSITION REACTION 67-12 M15-82994
NITRIDES, POWDER METALLURGY
SOME PROBLEMS IN PRODUCING PARTS FROM SILICON NITRIDE 67-02 M09-59781
THE PREPARATION AND INVESTIGATION OF SOME TITANIUM NITRIDE-MOLYBDENUM CERMETS 67-02 M09-62106
MECHANICAL PROPERTIES OF MATERIALS BASED ON SIC AND SI3N4 67-06 M09-70775
NITRIDES, PRECIPITATION
THE REVERSION PHENOMENON IN IRON-NITROGEN ALLOYS 67-01 M14-58746
DISSOLUTION AND PRECIPITATION OF ALUMINUM NITRIDE IN LOW-ALLOY STEEL 67-02 M14-59944
HIGH-STRENGTH PRECIPITATION-HARDENED CONSTRUCTIONAL STEELS 67-02 M17-60692
DIRECT OBSERVATION OF STRESS ASSOCIATED WITH NITRIDIC PRECIPITATION IN IRON 67-04 M14-67021
PRECIPITATION OF NITRIDES IN IRON-MANGANESE-NITROGEN ALLOYS 67-04 M14-67024
SOLUBILITY OF GASES IN REFRACTORY METALS AND PRECIPITATION FROM SUPERSATURATED SOLID SOLUTIONS 67-04 M14-67547
INTERNAL FRICTION OF FE-CR-N ALLOYS AND PRECIPITATION OF CHROMIUM NITRIDE 67-05 M17-69854
PRECIPITATION OF CRN IN LOW-ALLOY MEDIUM-TENSILE STRENGTH STEEL 67-06 M14-70813
DISSOLUTION AND PRECIPITATION OF ALUMINIUM NITRIDE IN LOW-ALLOY STEEL 67-07 M14-72599
NITRIDES, REACTIONS /CHEMICAL/
BEHAVIOR OF SOME NITRIDES OF THE TRANSITION METALS AND OF ALUMINUM NITRIDE TOWARD LIQUID METALS 67-05 M14-69060
HIGH TEMPERATURE REACTIONS OF BORON NITRIDE WITH ALUMINUM 67-05 M15-69422
THE IGNITION OF URANIUM MONONITRIDE AND URANIUM MONOCARBIDE IN OXYGEN 67-07 M15-74237
INVESTIGATION OF THE CONDITIONS OF PREPARING NIOBIUM NITRIDE AND CARBONITRIDE FROM NIOBIUM PENTOXIDE 67-10 M14-79920
NITRIDES, SURFACE PROPERTIES
WETTING TRANSITION-ELEMENT NITRIDES WITH FUSED OXIDES AND METALS 67-02 M15-60091
ADHESION OF NITRIDES TO STEEL AND SLAG 67-06 M15-70266
NITRIDES, TERNARY SYSTEMS
SUPERCONDUCTING CRITICAL FIELDS, CURRENTS AND TEMPERATURES IN THE NB-ZR-N TERNARY SYSTEM 67-03 M16-65390
NITRIDES, THERMAL PROPERTIES
THERMAL AND ELECTRICAL PROPERTIES 67-02 M15-60704
STABILITY OF COMMERCIAL SILICON NITRIDE WHEN HEATED IN AIR AND IN CARBON MONOXIDE 67-10 M05-79579
CALCULATION OF THE REDUCED THERMODYNAMIC POTENTIALS OF SOME CARBIDES AND NITRIDES 67-12 M09-82787
NITRIDES, THERMODYNAMICS
REVIEW OF THE SCIENCE OF CERAMIC MATERIALS 67-02 M05-60702
CALCULATION OF THERMODYNAMIC PROPERTIES OF SOME CARBIDES AND NITRIDES 67-06 M09-71466
CALCULATION OF HEAT CAPACITY OF REFRACTORY COMPOUNDS 67-06 M15-72330
THERMODYNAMIC CALCULATION OF EQUILIBRIA IN THE SYSTEM CARBIDE-OXYGEN 67-08 M15-74310
NITRIDES, X RAY DIFFRACTION
THE CRYSTAL STRUCTURES OF CR3 --C, N-- AND CR2VC2 67-05 M13-68486
NITRIDING
LIQUID NITRIDING OF 10 AND 40H STEEL 67-01 M17-57143
THE NITRIDING OF ALUMINUM POWDER UNDER PRESSURE 67-02 M09-60573
EFFECT OF THE COMPOSITION OF MIXED NITRIDING ATMOSPHERES ON THE THICKNESS AND HARDNESS 67-02 M10-59582
ISOTHERMAL SATURATION OF REFRACTORY METALS WITH NITROGEN AND STEP-WISE NITROGENATION 67-02 M10-61629
PROCESSES MODIFYING THE PROPERTIES OF TOOL SURFACES 67-02 M12-60865
GEAR CAPACITIES MULTIPLY WITH BATH NITRIDING 67-03 M10-65013
HEAT TREATMENT OF STRUCTURAL STEELS AND OF TOOL STEELS 67-03 M10-65174
POSSIBILITIES OF MEASURING AND REGULATING THE C-POTENTIAL DURING GAS-CARBURIZING AND ITS PRACTICAL SIGNIFICANCE 67-03 M10-65175
DIFFUSION ON THE SURFACE OF STEEL PARTS 67-03 M12-65452
FROM EUROPE COMES A GROUP OF WELL-TRIED CR-MO AND CR-MO-V NITRIDING STEELS 67-03 M17-65982
HEAT TREATMENT OF METALS. PT. 3 67-04 M10-66685
EFFECTS OF THE CHEMICAL COMPOSITIONS OF GASEOUS NITRIDING MIXTURES ON THE NITRIDING PROCESS 67-04 M10-67879
NITRIDING OF MACHINE PARTS MADE OF ALUMINUM-FREE STEELS 67-04 M10-67961
IMPROVEMENT OF THE WEAR RESISTANCE OF SPHEROIDAL GRAPHITE CAST IRON BY IONITRIDING 67-04 M10-68128
IMPROVED NITRIDING PROCESS PROLONGS GEAR LIFE 67-04 M10-68172
PRECIPITATION OF NITRIDES IN IRON-MANGANESE-NITROGEN ALLOYS 67-04 M14-67024
NITRIDING AND CARBONITRIDING OF STEELS BY MEANS OF AN AMMONIA-LANCED OXYACETYLENE FLAME 67-05 M10-69329
HEAT TREATMENT OF CAST IRON SURFACES 67-05 M10-69345
SURFACE TREATMENT OF ENGINEERING COMPONENTS 67-06 M10-71938
THE NITRIDING OF MACHINE PARTS 67-06 M10-72056
SOLUBILITY OF NITROGEN AND NITRIDING KINETICS OF

CHROMIUM AND IRON-CHROMIUM ALLOYS CONTAINING UP TO 40 PER CENT FE 67-06 M12-71108
CHROMIUM-MOLYBDENUM NITRIDING STEELS WITH 2.5/3.5 PER CENT CR 67-06 M17-70037
NEW SALT BATHS FOR LOW-TEMPERATURE HEAT TREATMENT OF STEEL 67-07 M10-72666
TENIFER PROCESS OF SALT BATH NITRIDING 67-07 M10-72906
THE PROBLEM OF STRENGTHENING LARGE SIZE COMPRESSOR CRANKSHAFTS 67-07 M10-73199
STUDY ON NITRIDING PURE IRON 67-07 M10-73290
USE OF GLOW DISCHARGE FOR CASE HARDENING 67-07 M10-74177
TWO-STEP NITRIDING IN AMMONIUM AND NITROGEN 67-07 M10-74179
INFLUENCE OF ALLOYING ELEMENTS ON STRUCTURE OF NITRIDED LAYER OF STAINLESS STEEL AND THE MECHANISM OF ITS STRENGTHENING 67-07 M10-74180
NITRIDING OF DIFFUSION-CHROMIZED STEEL--A NEW CASE HARDENING METHOD 67-07 M10-74181
THE PRESENT STATE OF NITRIDING 67-07 M10-74209
NITRIDABLE TITANIUM STEELS AND THEIR APPLICATION IN THE PRODUCTION OF MILL PRODUCTS 67-07 M10-74212
NITRIDING OF STEEL IN A MIXTURE OF NITROGEN AND AMMONIA 67-08 M10-74974
EMPLOYING THE TENIFER TREATMENT IN PRESSURE DIE CASTING EXTRUSION AND FORGING TOOLS 67-08 M10-75761
MULTIPLE NITRIDING OF 1KH13 STEEL 67-08 M10-76045
PROPERTIES OF COMBINATION COATINGS AT HIGH TEMPERATURES 67-08 M12-74590
PRODUCTION OF NITROGEN ALLOYED STEELS 67-09 M01-77824
THE STUDY OF SALT BATH NITRIDING FOR STEELS. PT. 1. THE MECHANISM OF SALT BATH NITRIDING 67-09 M10-76684
FABRICATION AND TREATMENT OF EXTRUSION DIES. PT. 4 67-09 M10-76788
INVESTIGATION OF STEEL NITRIDED IN NITROGEN DILUTED AMMONIA 67-09 M10-77419
EFFECT OF A MECHANICAL ACTIVATION OF THE SURFACE OF STEEL SHEETS ON THEIR CHEMICAL REACTIVITY 67-09 M14-77852
THE STUDY ON SALT BATH NITRIDING FOR STEELS. PT. 2. FATIGUE STRENGTH AND WEAR RESISTANCE 67-09 M17-76685
TOUGHER GEARS, LESS DISTORTION, RESULT OF NEW HEAT TREATMENT 67-10 M10-78578
HOW TO NITRIDE MARAGING STEELS 67-10 M10-78760
STUDY ON THE NITRIDING OF ALLOY STEELS 67-10 M10-79060
GAS AND SALT-BATH NITRIDING--AN ENGINEERING APPRAISAL 67-10 M10-79524
SOLUBILITY OF NITROGEN IN CHROMIUM AND IRON-CHROMIUM ALLOYS CONTAINING UP TO 40 PER CENT IRON, AND KINETICS OF THE NITRIDING PROCESS 67-10 M10-79656
THE INCREASE IN WEAR RESISTANCE OF STAMPING TOOLS THROUGH SURFACE TREATMENT 67-10 M12-79501
SOME REGULARITIES OF WEAR AND WEAR INCREASE OF PUNCHES USED IN CRANK FORGE PRESSES 67-10 M17-78546
NITRIDING OF FERROMANGANESE 67-11 M10-80450
PROPERTIES OF A NEW 2 PER CENT CR-MO-V-AL NITRIDING CREEP-RESISTING STEEL - HK 5 67-11 M17-80274
IMPROVING THE STABILITY OF DIES BY PRELIMINARY NITRIDING 67-12 M10-81796
INCREASE IN THE WEAR RESISTANCE OF BLANKING DIES THROUGH SURFACE TREATMENT 67-12 M10-81937
SURFACE ACTIVATION IN THE HEAT TREATMENT OF METALS 67-12 M10-81938
ETCHING AND HARDENING OF PRINT BARRELS 67-12 M10-82397
EFFECT OF REPETITION ON GAS NITRIDING CYCLES ON THREE TYPES OF STEEL 67-12 M10-83567
THE NITRIDING OF CHROMIUM IN N2-H2 GAS MIXTURES AT ELEVATED TEMPERATURES 67-12 M14-82764
NITRIDING FOR IMPROVING THE STABILITY OF CUTTING TOOLS 67-12 M17-81777
COMPARATIVE WEAR TESTS ON BATH-NITRIDED SPECIMENS 67-12 M17-82692
INCREASE IN THE FATIGUE STRENGTH OF HIGH-STRENGTH STRUCTURAL ALLOY STEELS THROUGH BATH NITRIDING AS A FUNCTION OF CORE STRENGTH AND NITRIDING TIME 67-12 M17-82846
SOME DATA CONCERNING THE FATIGUE BEHAVIOR OF NITRIDED STEELS 67-12 M17-82847

NITRIDING, ULTRASONICS
INFLUENCE OF ULTRASOUND ON THE NITRIDING AND DENITRIDING OF STEEL 67-08 M10-75815

NITRIFICATION
THE PREPARATION OF THE NITRIDES OF CHROMIUM 67-10 M05-78877

NITRIFICATION, PRESSURE EFFECTS
THE SOLUBILITY OF NITROGEN IN MULTICOMPONENT LIQUID IRON ALLOYS 67-03 M14-65081

NITROGEN, ABSORPTION /MATERIAL/
NITROGEN IN UNALLOYED FERRITIC METAL 67-07 M17-73425
BEHAVIOR OF NITROGEN DURING THE BLOWING OF MOLTEN METAL WITH OXYGEN THROUGH A LANCE IN THE PRODUCTION OF LOW CARBON STEEL 67-10 M04-79324

NITROGEN, ADSORPTION
ADSORPTION OF NITROGEN ON THE --113-- PLANE OF TUNGSTEN SINGLE CRYSTALS 67-05 M15-68574
ADSORPTION OF NITROGEN AND CARBON MONOXIDE ON MOLYBDENUM 67-06 M15-71043
THE ADSORPTION OF HELIUM, ARGON AND NITROGEN ON GRAPHITE 67-10 M14-78499
ADSORPTION OF NITROGEN ON SINGLE-CRYSTAL FACES OF TUNGSTEN 67-11 M14-80522

NITROGEN, ALLOYING ADDITIVE
EFFECT OF NITROGEN ON CHILLED GREY CAST IRON 67-01 M06-57498
THE EFFECT OF MN CONTENT ON THE DAMPING BEHAVIOR OF N-CONTAINING FERROUS ALLOYS 67-01 M17-57382
EFFECT OF MOLYBDENUM, NIOBIUM, AND TUNGSTEN ON THE STRUCTURE AND PROPERTIES OF AUSTENITIC CHROMIUM-MANGANESE STEELS CONTAINING NITROGEN 67-01 M17-58070
THE EFFECT OF NITROGEN ON THE TENSILE AND CREEP-RUPTURE PROPERTIES OF NIOBIUM 67-01 M17-58459
BEHAVIOR OF NITROGEN IN SLAGS AND IN THE METAL DURING MELTING OF ALLOY STEELS 67-02 M04-59878
EFFECT OF NITROGEN ON THE STRUCTURE AND PROPERTIES OF AUSTENITIC CHROMIUM-MANGANESE AND CHROMIUM-MANGANESE-NICKEL STEELS 67-02 M17-59057
EFFECT OF MANGANESE ON THE STRUCTURE AND PROPERTIES OF NONMAGNETIC STAINLESS STEELS 67-04 M15-67974
PROPERTIES OF CR-MN-NI STEELS CONTAINING NITROGEN AT LOW TEMPERATURES 67-04 M17-67975
THE EFFECT OF COMBINED, SIMULTANEOUS ADDITION OF MO, NB, TI, N, B ON HIGH TEMPERATURE PROPERTIES OF 18CR-12NI AUSTENITIC HEAT RESISTING STEEL 67-05 M17-69711
EFFECTS OF ADDING VANADIUM, NITROGEN AND ALUMINUM TO QUENCHED AND TEMPERED CHROMIUM AND MANGANESE STRUCTURAL STEELS ON THEIR PROPERTIES 67-06 M17-70119
MARTENSITE IN IRON-NITROGEN ALLOYS 67-07 M14-74173
NEW AUSTENITIC STAINLESS STEELS 67-08 M17-75101
INFLUENCE OF NIOBIUM AND NITROGEN ON THE STRENGTH OF HAVING A FERRITE-PEARLITE STRUCTURE 67-08 M17-76235
PRODUCTION OF NITROGEN ALLOYED STEELS 67-09 M01-77824
STRUCTURAL INVESTIGATIONS ON HIGH-NITROGEN CR-NI AUSTENITIC STAINLESS STEELS 67-09 M14-77826
THE EFFECT OF NITROGEN ON THE PROPERTIES OF AUSTENITIC STAINLESS STEELS 67-09 M17-77825
THE CHEMICAL STABILITY OF NITROGEN CR-NI STEELS 67-09 M18-77827
NEW AUSTENITIC STAINLESS STEELS 67-10 M17-78478
MICROSTRUCTURES AND NITRIDES OF FE-CR-N TERNARY SYSTEM 67-12 M13-82825
THE INFLUENCE OF NITROGEN AND CERTAIN OTHER ELEMENTS ON THE CREEP-RUPTURE PROPERTIES OF WHOLLY AUSTENITIC TYPE 204 STEEL 67-12 M17-83247
INFLUENCE OF NITROGEN ON THE PROPERTIES OF AUSTENITIC CR-NI AND CR-NI-MO---CU-- STEELS 67-12 M17-83289

NITROGEN, ALLOYING EFFECTS
THE INFLUENCE OF ALLOYING ELEMENTS ON THE O2 AND N2 CONTENTS OF STEEL, REMELTED IN A VACUUM ARC FURNACE 67-11 M04-80206

NITROGEN, ALLOYING ELEMENTS
EFFECTS OF ALUMINIUM NITRIDE ON THE PROPERTIES OF

STEEL 67-08 M14-74736
NITROGEN, BINARY SYSTEMS
QUENCHED STRUCTURE AND TEMPERING PROCESS OF IRON-NITROGEN BINARY ALLOYS 67-08 M14-74416
CONSTITUTION OF A PORTION OF THE NIOBIUM -- COLUMBIUM---NITROGEN SYSTEM 67-12 M13-82960
THE NITRIDING OF CHROMIUM IN N2-H2 GAS MIXTURES AT ELEVATED TEMPERATURES 67-12 M14-82764
NITROGEN, CHEMICAL ANALYSIS
BREAKTHROUGH IN ANALYSIS OF LIGHT ELEMENTS 67-02 M19-59630
INVESTIGATION OF THE POSSIBILITIES OF INDUSTRIAL USE OF ACTIVATION ANALYSIS TO DETERMINE OXYGEN AND POSSIBLY NITROGEN AND HYDROGEN IN STEEL. PT. 1 67-04 M19-67216
INVESTIGATION OF THE POSSIBILITIES OF INDUSTRIAL USE OF ACTIVATION ANALYSIS TO DETERMINE OXYGEN AND POSSIBLY NITROGEN AND HYDROGEN IN STEELS. PT. 2 67-04 M19-67217
INVESTIGATION OF THE POSSIBILITIES OF INDUSTRIAL USE OF ACTIVATION ANALYSIS TO DETERMINE OXYGEN AND POSSIBLY NITROGEN AND HYDROGEN IN STEELS. PT. 3 67-04 M19-67257
THE PART PLAYED BY NITROGEN IN THE OXIDATION OF TITANIUM IN AIR AT HIGH TEMPERATURES 67-05 M18-69052
CONTRIBUTION TO THE PROBLEM OF DETERMINING THE FREE AND THE COMBINED NITROGEN IN STEELS 67-06 M04-71752
HOW ALLOYING ELEMENTS AFFECT OXYGEN AND NITROGEN CONTENT IN STEEL FROM AN ARC VACUUM FURNACE 67-11 M04-81630
NITROGEN, CHEMICAL COMPOSITION
THE DISTRIBUTION OF NITROGEN BETWEEN IRON AND SLAG IN BLAST FURNACES 67-09 M04-77708
NITROGEN, DIFFUSION
DIFFUSION OF NITROGEN INTO SILICON CARBIDE SINGLE CRYSTALS DOPED WITH ALUMINUM 67-02 M14-61502
THE DIFFUSION ACTIVATION ENERGY OF INTERSTITIAL ELEMENTS IN TRANSITION METALS WITH A BODY-CENTERED LATTICE 67-04 M14-67916
DIFFUSION COEFFICIENT OF NITROGEN IN CHROMIUM 67-05 M14-69213
THE ACCELERATING EFFECT OF NITROGEN ON THE DIFFUSION OF CARBON INTO STEEL DURING HIGH-TEMPERATURE CARBONITRIDING 67-06 M10-70366
DIFFUSION OF OXYGEN AND NITROGEN IN LIQUID IRON 67-06 M14-69924
KINETICS OF SNOEK ORDERING AND COTTRELL ATMOSPHERE FORMATION IN FE-N SINGLE CRYSTALS 67-07 M17-73923
INTERNAL FRICTION OF FE-CO-N AND FE-NI-N ALLOYS 67-09 M14-78203
NITROGEN DIFFUSION IN ELECTRIC STEELMAKING SLAGS 67-12 M14-81702
THE EFFECT OF PHOSPHORUS ON THE NITROGEN SOLUBILITY AND DIFFUSIVITY IN ALPHA IRON 67-12 M14-82714
RESEARCH INTO REACTIONAL DIFFUSION IN METAL-COMPLEX GAS SYSTEMS. PT. 9. OXIDATION OF ZIRCONIUM IN AN ATMOSPHERE CONTAINING NITROGEN 67-12 M18-83301
NITROGEN, IMPURITIES
CONTENT OF NITROGEN IN METAL DURING COMPRESSED AIR BLOWING OF AN OPENHEARTH BATH 67-01 M04-58170
NITROGEN, INTERSTITIAL DEFECTS
ELECTRON MICROSCOPE STUDY OF NIOBIUM CONTAMINATED BY INTERSTITIAL ELEMENTS 67-02 M14-58926
NITROGEN, PHYSICAL PROPERTIES
NITROGEN ABSORPTION IN GAMMA IRON AND IRON-LANTHANUM ALLOYS 67-01 M14-58558
EFFECT OF VARIOUS ELEMENTS ON THE GAS SATURATION OF NICKEL AND ITS ALLOYS 67-02 M14-61555
NITROGEN, QUATERNARY SYSTEMS
STRUCTURAL DIAGRAMS OF THE QUATERNARY 18 PER CENT CR-FE-C-N SYSTEM 67-02 M13-59983
NITROGEN, REACTIONS /CHEMICAL/
THE INTERACTION OF NITROGEN WITH RHENIUM 67-08 M14-75603
NITROGEN, SOLID SOLUBILITY
SOLUBILITY OF NITROGEN IN MOLTEN NICKEL AND IN THE ALLOYS OF NICKEL WITH CHROMIUM, MOLYBDENUM AND TUNGSTEN 67-02 M15-60726
NITROGEN, SOLID SOLUTIONS
DEGASSING KINETICS OF METAL-NITROGEN-SOLID SOLUTIONS. PT. 1. THEORETICAL CONSIDERATIONS 67-02 M14-60125
NITROGEN, SOLUBILITY
THE SOLUBILITY OF NITROGEN IN MULTICOMPONENT LIQUID IRON ALLOYS 67-03 M14-65081
INTERACTION OF NITROGEN WITH TYPE KH20N80 NICKEL-CHROMIUM MELTS 67-03 M14-65960
THE SOLUBILITY OF NITROGEN IN MOLTEN IRON ALLOYS BY ARC AND LEVITATION MELTING 67-04 M14-67588
INFLUENCE OF THE TEMPERATURE OF METAL DROPS AND KINETICS OF ELECTRODE FUSION ON NITROGEN SATURATION OF WELD METAL 67-06 M11-72304
A STUDY OF NITROGEN IN A CHROMIUM-YTTRIUM ALLOY 67-06 M14-71606
EFFECT OF OXYGEN, SULFUR, SELENIUM AND TELLURIUM ON THE SOLUBILITY OF NITROGEN IN LIQUID IRON 67-06 M14-72208
BEHAVIOR OF NITROGEN DURING MELTING OF CHARGE IN AN ARC ELECTRIC FURNACE PRODUCING LOW-CARBON STEEL 67-08 M04-74578
INTERFACIAL SEGREGATION OF NITROGEN IN IRON 67-08 M14-75579
NITROGEN SOLUBILITY AND NITRIDE FORMATION IN LIQUID NI-TI-AL ALLOYS 67-08 M14-75871
SOLUBILITY OF GASES IN MANGANESE-BASED LIQUID ALLOYS 67-08 M15-74571
NITROGEN-BEARING SINTERED PRODUCTS AND MELTED ALLOYS 67-09 M04-77582
PRODUCING CHROMIUM-MAGNESIUM NITROGEN-ALLOYED AUSTENITIC STEEL 67-09 M04-77860
SOLUBILITY OF NITROGEN IN CHROMIUM AND IRON-CHROMIUM ALLOYS CONTAINING UP TO 40 PER CENT IRON, AND KINETICS OF THE NITRIDING PROCESS 67-10 M10-79656
SOLUBILITY OF NITROGEN AND FORMATION CONDITIONS OF ALUMINUM AND TITANIUM NITRIDES IN KH20N80 ALLOY 67-10 M14-80077
ELEVATED NITROGEN CONTENTS IN AUSTENITIC CRNI AND CRMN STEELS 67-10 M17-78339
THE EFFECTS OF DROPLET TEMPERATURE AND THE KINETICS OF ELECTRIC FUSION ON THE NITROGEN SATURATION OF METAL 67-11 M11-81576
THE THERMODYNAMICS OF DILUTE INTERSTITIAL SOLID SOLUTIONS 67-11 M15-81119
THE PRECIPITATION BEHAVIOR OF AUTENITIC CR-NI STEELS ALLOYED WITH NITROGEN 67-12 M14-82557
EQUIVALENT EFFECT OF ADDITION ELEMENTS ON ALLOYS FE-N-XI AT 1600 C
SOLUBILITY, ACTIVITY, AND ACTIVITY COEFFICIENTS OF NITROGEN IN IRON-RICH MELTS. PT. 1. TERNARY 67-12 M15-83392
NITROGEN, SORPTION
NITROGEN IN NONALLOYED FERRITIC METAL 67-04 M17-66568
NITROGEN ABSORPTION AND DESORPTION BY LIME-ALUMINA SLAG 67-11 M14-81643
DECARBURIZATION OF IRON-CARBON MELTS IN CO2-CO ATMOSPHERES--KINETICS OF GAS-METAL SURFACE REACTIONS 67-12 M04-82955
ARC ATMOSPHERE AND NITROGEN CONTENT OF WELD METAL 67-12 M11-83211
GAS INCORPORATION INTO SPUTTERED FILMS 67-12 M14-83264
BEHAVIOR OF STEELS USED FOR AMMONIA SYNTHESIS 67-12 M18-82354
NITROGEN, STEEL MAKING
BEHAVIOR OF NITROGEN IN OPENHEARTH FURNACE 67-12 M04-81949
NITROGEN, TERNARY SYSTEMS
THE URANIUM-CARBON-NITROGEN SYSTEM 67-02 M15-60617
CONTRIBUTION TO THE CR-C-N SYSTEM 67-04 M14-66915
SUPERCONDUCTING HC-JC AND TC MEASUREMENTS IN THE NB-TI-N, NB-HF-N AND NB-V-N TERNARY SYSTEMS 67-09 M16-77449
A CONTRIBUTION TO THE CHROMIUM-CARBON-NITROGEN SYSTEM 67-12 M13-82053
STRUCTURAL DIAGRAMS AND PHASE REACTIONS OF FE-CR-N TERNARY SYSTEM 67-12 M13-82826
NITROGEN, TRANSPORT PROPERTIES
ELECTROTRANSPORT OF CARBON, NITROGEN, AND OXYGEN IN THORIUM 67-01 M14-57416
NITROGEN COMPOUNDS, PHYSICAL PROPERTIES
THE URANIUM-NITROGEN SYSTEM 67-11 M15-80195
NOBLE GASES
SEE RARE GASES
NOBLE METALS
SEE PRECIOUS METALS
NODES
SEGREGATION AND GRAIN GROWTH IN DILUTE ALLOYS 67-12 M13-82879

NODES
X-RAY AND ELECTRON MICROSCOPY STUDY OF PREPRECIPITATION PHENOMENA IN CU-RICH TI ALLOYS 67-12 M13-83151
NODULAR CAST IRON
SEE NODULAR IRON
NODULAR GRAPHITIC STRUCTURE
SPHEROIDAL GRAPHITE NUCLEI IN RARE EARTH AND MAGNESIUM INOCULATED IRONS 67-01 M13-57594
EFFECT OF COPPER IN HEAVY-SECTION NODULAR-IRON CASTINGS 67-02 M06-61700
THE PRODUCTION OF CAST IRON WITH SPHERIOIDAL GRAPHITE HAVING HIGH ELONGATION VALUES IN THE AS-CAST CONDITION IN ACID COLD BLAST CUPOLAS WITH LOW-MN PIG IRON 67-04 M04-66638
ON DIRECTIONAL FREEZING OF GRAY IRON 67-04 M06-67568
THE RELATION BETWEEN THE DRY WEAR OF CAST IRON AND ITS STRUCTURE 67-04 M17-67112
FATIGUE PROPERTIES OF CAST IRON IN RELATION TO GRAPHITE STRUCTURE 67-05 M17-69879
INGOT STEEL WITH FREE GRAPHITE IN THE METALLIC BASE 67-06 M06-70210
HEAVY SECTION DUCTILE IRON AS AFFECTED BY CERTAIN PROCESSING VARIABLES 67-06 M06-70673
THE DETERMINING FACTOR OF THE FORMATION OF SPHEROIDAL GRAPHITE IN MALLEABLE IRON 67-07 M14-74045
MECHANISM OF THE EFFECT OF SURFACE-ACTIVE ELEMENTS ON THE FORM OF GRAPHITE IN CAST IRON 67-08 M14-75885
NODULAR GRAPHITE STEEL. EFFECT OF HEAT TREATMENT ON MECHANICAL PROPERTIES 67-08 M17-74426
SPHEROIDAL GRAPHITE CAST STEEL 67-09 M04-76732
THE PRODUCTION OF CAST IRON WITH SPHEROIDAL GRAPHITE IN PRESSURE CHAMBERS 67-09 M04-77004
USING UNALLOYED MAGNESIUM IN DUCTILE IRON PRODUCTION 67-09 M06-76523
EFFECT OF MOULD MATERIALS AND MOULD COATINGS ON DISRUPTION OF NODULAR GRAPHITE 67-10 M06-79030
CRYSTAL STRUCTURE OF GRAPHITE IN CAST IRON BY X-RAY DIFFRACTION 67-12 M13-82602
RELATION BETWEEN OXIDATION AND DECARBURIZATION OF CAST IRON 67-12 M18-82450
NODULAR GRAPHITIC STRUCTURE, ALLOYING EFFECTS
STUDIES ON GRAPHITIZATION OF CONVENTIONALLY AND ISOTHERMALLY ANNEALED WHITE CAST IRONS 67-05 M14-69878
A NOTE ON THE STRUCTURE AND GROWTH MECHANISM OF SPHEROIDAL GRAPHITE CRYSTALS IN ALLOYS CONTAINING CARBON 67-08 M14-74432
NODULAR GRAPHITIC STRUCTURE,
EFFECT OF CERTAIN ELEMENTS ON THE FORM OF GRAPHITE IN CAST IRON 67-05 M14-69880
NODULAR GRAPHITIC STRUCTURE, SOLIDIFICATION
TEMPERATURE DISTRIBUTION ON THE SOLIDIFICATION OF SPHEROIDAL GRAPHITE CAST IRON 67-02 M14-59729
NODULAR IRON
ALLOYED CAST IRON WITH SPHEROIDAL GRAPHITE 67-02 M01-59078
ANNUAL LITERATURE REVIEW OF LAMELLAR GRAPHITE CAST IRON. PT. 3 67-04 M06-67062
THE MAGNESIUM INJECTION PROCESS FOR DUCTILE IRON 67-07 M06-73079
NODULAR IRON, CASTING
INDUCTION FURNACE MELTING OF DUCTILE IRON 67-01 M06-58677
PRODUCTION OF HIGH-STRENGTH CAST IRON IN A FOUNDRY OF THE ACEC 67-02 M06-61239
EFFECT OF COPPER IN HEAVY-SECTION NODULAR-IRON CASTINGS 67-02 M06-61700
REVOLUTIONARY CASTING TECHNIQUES UNVEILED BY CHRYSLER 67-03 M06-65601
THE PRODUCTION OF CAST IRON WITH SPHERIOIDAL GRAPHITE HAVING HIGH ELONGATION VALUES IN THE AS-CAST CONDITION IN ACID COLD BLAST CUPOLAS WITH LOW-MN PIG IRON 67-04 M04-66638
EFFECT OF METAL QUALITY ON THE PROCESS OF RISERING FROM CAST IRON 67-04 M06-66096
EXPERIENCE WITH THE INTRODUCTION OF CERIUM-INOCULATED HIGH-STRENGTH CAST IRON 67-04 M06-66423
PRODUCING CASTINGS OF INOCULATED IRON 67-04 M06-66426
THE USE OF SPHEROIDAL GRAPHITE CAST IRON IN THE PRODUCTION OF MEDIUM-PRESSURE GATE VALVES 67-04 M17-67067
MAKING NODULAR IRON CASTINGS AT MCKINNON INDUSTRIES 67-06 M06-70590
HEAVY SECTION DUCTILE IRON AS AFFECTED BY CERTAIN PROCESSING VARIABLES 67-06 M06-70673
DUCTILE IRON--A PERIOD OF ADJUSTMENT 67-06 M06-71050
MANUFACTURE OF SPHEROIDAL GRAPHITE IRON CASTINGS IN A JOBBING FOUNDRY 67-06 M06-72186
METAL CASTING INNOVATED BY CHRYSLERS NEW FOUNDRY 67-07 M06-73838
THERMAL ANALYSIS OF DUCTILE IRON 67-09 M06-77398
IRON AND STEEL IN THE MODERN VEHICLE IC ENGINE 67-09 M20-77378
EFFECT OF MOULD MATERIALS AND MOULD COATINGS ON DISRUPTION OF NODULAR GRAPHITE 67-10 M06-79030
NODULAR IRON MELTING PRACTICE AT FORD MOTOR COMPANY LTD, DAGENHAM 67-10 M06-79242
THE T-NOCK CASTING PROCESS 67-10 M06-79719
USING KARAGANDA WORKS PIG IRONS FOR GREY AND NODULAR IRON CASTINGS PRODUCTION 67-12 M06-81879
NODULAR IRON, CASTINGS 67-05 M20-68686
GENERAL MOTORS BUILDS FOUNDRY OF TOMORROW
GENERAL MOTORS BUILDS FOUNDRY OF TOMORROW 67-05 M20-68686
AN EXPERIMENTAL PIPELINE OF DUCTILE CAST IRON FOR AN OPERATING PRESSURE OF 64 ATM 67-06 M06-71440
PRODUCTION OF THIN-SECTION NODULAR-IRON CASTINGS FREE FROM CARBIDES 67-07 M06-73217
NODULAR IRON, CORROSION
HEAT RESISTING PROPERTIES OF THIN IRON CASTINGS 67-04 M18-67113
NODULAR IRON, CRANKSHAFTS
THE USE OF SPHEROIDAL CAST IRON IN CRANKSHAFTS 67-11 M20-81544
NODULAR IRON, EXTRUSION
HOT EXTRUSION OF CAST IRON 67-03 M07-65308
NODULAR IRON, FOUNDRY PRACTICE
CFD BUILDS NEW IRON FOUNDRY 67-04 M06-67498
OPERATION OF THE BASIC CUPOLA FOR THE PRODUCTION OF LIGHT NODULAR IRON CASTINGS 1956-1966 67-06 M06-69953
NODULAR IRON, GRAPHITIZATION
EFFECT OF RAW IRON MATERIAL, MASS EFFECT AND RESIDUAL MG ON THE MANUFACTURE OF NODULAR GRAPHITE CAST IRON BY MG AND RARE EARTH ALLOYS 67-02 M06-60149
NODULAR IRON, HEAT TREATMENT
HEAT TREATING ATMOSPHERES FOR DUCTILE IRON 67-09 M10-77394
ISOTHERMAL QUENCHING OF HIGH-STRENGTH CAST IRON WITH INDUCTION HEATING 67-09 M10-77412
NODULAR IRON, MACHINING
MACHINING CAST NODULAR-IRON CRANKSHAFTS 67-01 M08-58570
ROCKET WARHEADS PROVIDE NEW WORK FOR ONTARIO PLANT 67-05 M08-68805
MATERIAL AND TECHNIQUE FACTORS IN THE MACHINING OF IRON CASTINGS. PT. 1 67-06 M08-72027
COMPARATIVE INVESTIGATIONS INTO THE MACHINABILITY OF GRAPHITE-CONTAINING CAST IRON-BASE MATERIALS 67-07 M08-73247
HOW TO AVOID PROBLEMS IN MACHINING IRON CASTINGS 67-09 M08-77984
NODULAR IRON, MECHANICAL PROPERTIES
CAST IRONS WITH TIN ADDITIONS 67-01 M01-57521
FRACTOGRAPHIC EXAMINATION OF FATIGUE SPECIMENS OF DUCTILE IRON 67-01 M17-57441
TEMPER EMBRITTLEMENT OF DUCTILE IRON 67-01 M17-58478
THE ELASTIC BEHAVIOR OF GRAY CAST IRON. PT. 2. THEORY 67-02 M17-60026
WEAR RESISTANCE OF ISOTHERMALLY QUENCHED NODULAR CAST IRON 67-02 M17-61014
STEELS AND ALLOYS FOR CRYOGENIC APPLICATIONS 67-02 M17-61982
PUSH-PULL LOW-ENDURANCE FATIGUE OF CAST IRONS AND STEELS 67-04 M17-66729
REVIEW OF RECENT WORK ON THE MECHANICAL PROPERTIES OF NODULAR CAST IRON 67-05 M17-69873
FATIGUE PROPERTIES OF CAST IRON IN RELATION TO GRAPHITE STRUCTURE 67-05 M17-69879
THE EFFECT OF TRIAXIAL STRESS SYSTEMS ON BRITTLE FRACTURE AND ON THE BRITTLE-DUCTILE TRANSITION 67-06 M17-70631
INFLUENCE OF THE STRUCTURE AND SUBSTRUCTURE OF

MAGNESIUM-TREATED IRON ON ITS WEAR RESISTANCE
67-06 M17-70758
THERMAL FATIGUE UNDER MULTIAXIAL THERMAL STRESSES IN THE CASE OF SPHEROIDAL GRAPHITE CAST IRON
67-06 M17-70817
ANTIFRICTION AND MECHANICAL PROPERTIES OF TAVEN, A NEW ANTIFRICTION CAST IRON 67-07 M17-73033
STEELPLANT INGOT MOLDS OF NODULAR IRON
67-07 M17-73260
MECHANICAL PROPERTIES OF NODULAR CUPOLA IRON
67-07 M17-74052
DUCTILE CASE IRON TUBING FOR THE SUPPLY INDUSTRY
67-07 M20-73150
PRESENT STATUS AND DEVELOPMENT TENDENCIES OF CAST IRON WITH SPHEROIDAL GRAPHITE
67-08 M01-75676
EFFECTS OF PIG IRON AND ALLOY ELEMENTS UPON THE AS-CAST MICROSTRUCTURE AND MECHANICAL PROPERTIES OF SPHEROIDAL GRAPHITE CAST IRON
67-08 M06-74621
DETERMINING THE STRENGTH AND PLASTICITY OF NODULAR IRON IN CRANKSHAFT CASTINGS BY THEIR HARDNESS 67-08 M17-75199
ISOTHERMAL QUENCHING OF CAST IRON WITH GLOBULAR GRAPHITE 67-08 M17-76033
THE MECHANICAL PROPERTIES OF CAST IRON WITH SPHEROIDAL GRAPHITE IN THICK-WALLED PARTS
67-09 M17-76520
THE LOW TEMPERATURE PROPERTIES OF FERRITIC AND AUSTENITIC NODULAR IRONS 67-10 M17-79172
CAST IRONS WITH LAMINATED AND GLOBULAR GRAPHITE AS CONSTRUCTION MATERIALS IN MACHINE DESIGN
67-10 M17-79699
FRACTURE OF NODULAR CAST IRON 67-10 M17-79766
THE STRUCTURAL STABILITY, GROWTH AND SCALING PROPERTIES OF AUSTENITIC CAST IRONS AT TEMPERATURES UP TO 800 C 67-11 M17-80405
MEEHANITE CAST IRON AS A MATERIAL FOR THE CHEMICAL INDUSTRY 67-11 M20-81185
THE THERMAL FATIGUE OF SPHEROIDAL GRAPHITE CAST IRON 67-12 M17-82601
THE IMPORTANCE OF INTERNAL STRESS IN GRAY OR SPHEROIDAL CAST IRON 67-12 M17-82897
THE EFFECT OF COBALT, NICKEL AND COPPER ON THE STRUCTURE AND THE MECHANICAL PROPERTIES OF SPHEROIDAL GRAPHITE CAST IRON
67-12 M17-82919

NODULAR IRON, MELTING
MELTING OF LOW-TEMPERATURE RESISTANT AUSTENITIC SPHEROIDAL CAST IRON 67-01 M06-57200
INDUCTION MELTING FOR SPHEROIDAL GRAPHITE IRON PRODUCTION 67-02 M06-60523
MELTING OF DUCTILE IRON IN INDUCTION FURNACES IN SWEDEN 67-04 M04-66281
MELTING OF NODULAR CAST IRON IN INDUCTION FURNACE
67-04 M06-68017
INDUCTION MELTING IN THE PRODUCTION OF SPHEROIDAL GRAPHITE CAST IRON 67-05 M06-68924
MELTING PLANT FOR SPHEROIDAL GRAPHITE IRON
67-06 M06-70023
USING UNALLOYED MAGNESIUM IN DUCTILE IRON PRODUCTION 67-09 M06-76523
ALLOYED IRON CONTAINING SPHEROIDAL GRAPHITE
67-12 M06-83309
AN IRON CONTAINING SPHEROIDAL GRAPHITE
67-12 M06-83476

NODULAR IRON, MICROSTRUCTURE
SPHEROIDAL GRAPHITE NUCLEI IN RARE EARTH AND MAGNESIUM INOCULATED IRONS 67-01 M13-57594
TEMPERATURE DISTRIBUTION ON THE SOLIDIFICATION OF SPHEROIDAL GRAPHITE CAST IRON
67-02 M14-59729
PROPERTIES OF PEARLITIC AND ANNEALED FERRITIC NODULAR-IRONS ALLOYED WITH COPPER
67-02 M17-60883
HETEROGENEOUS NUCLEATION OF NODULAR CAST IRON
67-05 M06-68456
EFFECT OF CERTAIN ELEMENTS ON THE FORM OF GRAPHITE IN CAST IRON 67-05 M14-69880
SEGREGATION IN NODULAR IRON AND ITS INFLUENCE ON MECHANICAL PROPERTIES 67-06 M13-71322

NODULAR IRON, MOLDS
EXPERIENCES WITH INGOT MOLDS OF NODULAR CAST IRON. PT. 1. PROPERTIES AND FABRICATION OF INGOT MOLDS OF NODULAR CAST IRON 67-07 M04-73009
EXPERIENCES WITH INGOT MOLDS OF NODULAR CAST IRON. PT. 2. SERVICE PERFORMANCE IN THE STEEL MILL OF INGOT MOLDS OF NODULAR CAST IRON
67-07 M04-73010

NODULAR IRON, PHASE TRANSFORMATIONS
ISOTHERMAL AUSTENITE TRANSFORMATIONS IN ANNEALED MAGNESIUM-TREATED IRON 67-06 M14-70756

NODULAR IRON, REACTIONS /CHEMICAL/
STUDIES OF THE SIMULTANEOUS ADDITION OF MAGNESIUM AND RARE EARTH ALLOYS ON THE MANUFACTURE OF NODULAR GRAPHITE CAST IRON 67-02 M06-60148

NODULAR IRON, REFINING
POROUS PLUG DESULFURIZING 67-10 M04-79289
EFFECT OF SIMULTANEOUS ADDITIONS OF MAGNESIUM AND RARE EARTH ALLOY ON THE MANUFACTURING OF NODULAR GRAPHITE CAST IRON 67-12 M04-82824

NODULAR IRON, SEGREGATIONS
SILICON MICROSEGREGATION IN CAST IRON
67-02 M13-61911

NODULAR IRON, SOLIDIFICATION
ON THE RELATIONS BETWEEN THE EUTECTIC SOLIDIFICATION RATE AND THE MICROSCOPIC STRUCTURE OF CAST IRON 67-01 M14-58256
METALLURGY OF FEEDING GREY CAST IRON
67-04 M06-66890

NODULAR IRON, SPECIFICATIONS
GUIDE TO SPECIFICATIONS FOR DUCTILE-IRON CASTINGS
67-03 M19-65497

NODULAR IRON, WEAR
RESISTANCE OF CAST IRONS TO CAVITATIONAL EROSION
67-08 M17-76037

NODULAR IRON, WELDING
HARDSURFACING OF CAST IRON CRANKSHAFTS FOR GAZ-M-21 MOTORS 67-09 M11-78126
PROBLEMS IN WELDING DUCTILE CAST IRON
67-10 M11-78712
THE WELDING OF CAST IRON WITH SPHEROIDAL GRAPHITE
67-10 M11-79488

NODULAR IRON, X RAY ANALYSIS
X-RAY INVESTIGATION ON THE STRENGTH OF INHOMOGENEOUS METALLIC MATERIALS. ON THE DEFORMATION MECHANISM OF PEARLITIC SPHEROIDAL GRAPHITE CAST IRON 67-05 M17-68528

NODULES /GRAPHITE/
SEE NODULAR GRAPHITIC STRUCTURE

NOISE
A CALCULATION OF NOISE IN SENSITIZED GAAS
67-11 M15-80937
MEASUREMENTS OF NOISE IN SENSITIZED GAAS
67-11 M15-80938

NOMOGRAMS
SEE NOMOGRAPHS

NOMOGRAPHS
DETERMINING THE SIZE OF THE BUILT-UP EDGE OF A HOT-TRIMMING DIE 67-02 M11-59518
NOMOGRAMS SOLVE TOUGH PROBLEMS OF SHIELDING
67-07 M20-73222
NOMOGRAPH FOR THE DETERMINATION OF GATE AREAS OF GRAY IRON CASTINGS 67-08 M06-75699

NONAQUEOUS ELECTROLYTES
THE ELECTRODEPOSITION OF COPPER FROM NONAQUEOUS SOLUTIONS. PT. 1. GENERAL REVIEW AND PRELIMINARY STUDIES 67-05 M12-68815
THE ELECTRODEPOSITION OF COPPER FROM NONAQUEOUS SOLUTIONS. PT. 2. THE ACETIC ACID-PYRIDINE SYSTEM
67-05 M12-68816

NONCLASTIC ROCKS
SEE ANTHRACITE
LIGNITE
TACONITE

NONDESTRUCTIVE TESTING
SEE ALSO EDDY CURRENT TESTING
ELECTROMAGNETIC TESTING
FLUID PENETRANT TESTING
MAGNETIC PARTICLE TESTING
MAGNETIC TESTING
ULTRASONIC TESTING
THE NEW CSR MILL AT REPUBLIC STEELS YOUNGSTOWN PLANT 67-01 M07-58502
DETERMINATION OF CASTING STRESS BY X-RAYS
67-01 M17-58257
CONTINUOUS NONDESTRUCTIVE MAGNETIC TESTING OF STEEL STRIP 67-01 M19-57935
BETA RAY THICKNESS MEASUREMENTS OF LIGHT ALLOY TUBES 67-01 M19-57989
THE INSPECTION OF THIS SHEET BY MEANS OF 22 TO 37 KV X-RAYS AND SCINTILLATION COUNTERS
67-01 M19-58345
RADIOGRAPHIC INSPECTION WITH THERMAL NEUTRONS
67-01 M19-58346
ULTRASONIC INSPECTION OF RAILWAY AXLES
67-01 M19-58520
NON-DESTRUCTIVE TESTING OF THIN COATINGS

67-01 M19-58581
N.D.T. APPLIED TO PIPELINE CONSTRUCTION AND OPERATION IN THE U.S.A. PT. 2
67-01 M19-58582
GAMMA-RAY LEVEL GAGE OF BLAST FURNACE
67-02 M04-60164
AUTOMATIC INSPECTION DURING FABRICATION OF INTERMEDIATE STEEL PRODUCTS 67-02 M07-62071
IN-PROCESS WELDING CONTROL PROVIDED BY ULTRASONICS
67-02 M11-60933
COATING WEIGHTS MEASUREMENT WITH BETA-RAY ON CONTINUOUS GALVANIZING LINES 67-02 M12-58849
FINISHING OF INTERMEDIATE PRODUCTS
67-02 M12-62069
NONDESTRUCTIVE MATERIAL TESTING IN THE PRODUCTION OF FUEL ELEMENTS 67-02 M16-60022
SURFACE CONDITION AND FATIGUE OF WIRE ROPE
67-02 M17-60586
DETERMINING THE STRESSED STATE OF MATERIALS BY ULTRASONICS 67-02 M17-60665
THE CONTINUOUS ULTRASONIC INSPECTION OF ELECTRORESISTANCE WELDED TUBING
67-02 M19-58850
METHODS FOR MEASURING DENSITY AND THICKNESS OF OBJECTS BY SCATTERING COLLIMATED GAMMA-RAYS
67-02 M19-58941
ULTRASOUND HUNTS FOR WEAK SPOTS
67-02 M19-58972
METHOD OF ELECTRIC INDUCTION INSPECTION OF THE DEPTH OF SURFACE HARDENING IN GEAR TEETH
67-02 M19-59554
ULTRASONIC TESTING OF RESISTANCE WELDED JOINTS
67-02 M19-60138
NONDESTRUCTIVE TESTING FOR METALLURGICAL CHANGES IN BOILER TUBES 67-02 M19-60254
INSPECTION OF WELDS BY ULTRASONIC METHODS
67-02 M19-60509
ULTRASONIC INSPECTION OF SMALL DIAMETER THIN-WALL TUBING 67-02 M19-60773
ULTRASONIC SCATTER IN METALS--ITS PROPERTIES AND ITS APPLICATION TO GRAIN SIZE DETERMINATION
67-02 M19-60774
TESTING OF SPOT WELDS 67-02 M19-60775
ULTRASONIC HARDNESS TESTING--QUICK AND NONDESTRUCTIVE 67-02 M19-60776
THE FUTURE OF ULTRASONIC CAMERAS IN INDUSTRIAL INSPECTION 67-02 M19-60777
APPLICATION OF EXOELECTRONIC EMISSION IN METAL SCIENCE 67-02 M19-60859
NONDESTRUCTIVE TESTING OF COMPOSITE STRUCTURES WITH THE SONIC RESONATOR 67-02 M19-60916
PROSPECTUS FOR NDT IN THE SATURN AND ADVANCED SPACE FLIGHT PROGRAMS 67-02 M19-60917
TESTS ON SPOT WELDED JOINTS 67-02 M19-61046
EDDY CURRENT TESTING BECOMES PRODUCTION TOOL
67-02 M19-61125
THE PRESENT STATUS OF METHODS OF NONDESTRUCTIVE TESTING OF WELDED JOINTS 67-02 M19-61265
ADD TWO PLUS ONE FOR NDT--ULTRASONIC VIEW OF A SPOT WELD, MAGNETIC FIELD WHERE ITS NEEDED, GETTING A WELD GUARANTEE ON GAS PIPELINE
67-02 M19-61647
CRITICAL ULTRASONIC REFLECTIVITY--A NEGLECTED TOOL FOR MATERIAL EVALUATION 67-02 M19-61799
PROGRESS IN ULTRASONIC INSPECTION OF STEELS AT HIGH TEMPERATURE 67-02 M19-62035
NEW RESULTS IN ULTRASONIC WELD TESTING AND WALL THICKNESS MEASUREMENTS IN BOILER AND TUBING CONSTRUCTION 67-02 M19-62197
ULTRASONIC INSPECTION OF BUTT WELDS IN BOILER TUBES
67-03 M11-65055
REPORT ON THE PRESENT SCOPE OF NONDESTRUCTIVE TESTING OF RESISTANCE SPOT WELDS
67-03 M11-65450
NONDESTRUCTIVE EXAMINATION OF RADIOACTIVE MATERIAL USING NEUTRON RADIOGRAPHY 67-03 M19-65015
RECENT ADVANCES IN NONDESTRUCTIVE TESTING TECHNOLOGY AT HANFORD 67-03 M19-65316
NONDESTRUCTIVE TEST DEVELOPMENT FOR ADVANCED AIRPLANES 67-03 M19-65317
THE UTILIZATION OF APPARENT DEFECT AND BACKGROUND ECHOES IN ULTRASONIC TESTING 67-03 M19-65325
THE SUITABILITY OF THE R9500-1E MAGNETIC INDUCTION TESTING DEVICE FOR THE DETERMINATION OF SURFACE DECARBURIZATION IN STEEL RODS
67-03 M19-65571
EXCITATION OF LAMB WAVES IN THICK PLATES BY ULTRASONIC IMPULSES 67-03 M19-65602
STRIP THICKNESS MEASUREMENT WITH RADIONUCLIDES
67-03 M19-65625
NONDESTRUCTIVE TESTING OF CARBURIZATION DEPTH
67-03 M19-65734
FIBER OPTICS LOOK INTO A WELD 67-03 M19-65765
NEW YORK HARBOR CORROSION--PORT OF NEW YORK AUTHORITY CONDUCTS PILE SURVEY
67-04 M18-66317
FORGING METALLURGY--STEEL. PT. 3. MODERN INSPECTION AND TESTING METHODS 67-04 M19-66170
A METALLURGICAL ASSESSMENT OF ULTRASONIC BILLET TESTING 67-04 M19-66656
UNDERWATER NEUTRON RADIOGRAPHY WITH CONICAL COLLIMATOR 67-04 M19-66718
COMBINED ECHO-SHADOW METHOD OF ULTRASONIC DEFECTOSCOPY 67-04 M19-66816
ULTRASONIC DEFECTOSCOPY OF SMALL-BORE PIPES
67-04 M19-66839
FACTORS AFFECTING THE POSITION OF THE INJECTION POINT OF ULTRASONIC OSCILLATIONS ON INSPECTING WELDS 67-04 M19-66840
GAMMA-DEFECTOSCOPE RID-21G FOR QUALITY CONTROL OF WELDED JOINTS IN MAINS 67-04 M19-66876
MICROLOCAL MAGNETOGRAPHIC INSPECTION OF POLISHED SURFACES OF STEEL PIECES 67-04 M19-67087
A METHOD OF INSPECTING THIN SHEETS BY NORMAL WAVES
67-04 M19-67088
RECOMMENDATIONS ON THE USE OF ULTRASONIC INSPECTION OF BUTT WELDS 67-04 M19-67137
THE AUTOMATION OF ULTRASONIC TESTING OF FLAT-ROLLED PRODUCTS 67-04 M19-67201
NONDESTRUCTIVE TESTING 67-04 M19-67221
THE ECONOMY OF TESTING CASTINGS WITH GAMMA RADIATION 67-04 M19-67254
MODERN RADIOMETALLOGRAPHIC METHODS
67-04 M19-67399
METHOD FOR MEASURING ROTATIONAL CORE LOSSES IN SILICON-IRON SHEETS 67-04 M19-67423
FILM THICKNESS DETERMINATION BY ELECTRON PROBE MICROANALYSIS 67-04 M19-67430
DETERMINATION OF THE TOLERABLE RADII AND OF THE THICKNESS OF STEEL PIPES IN WHICH GAMMA DEFECTOSCOPY OF TRANSVERSE FILLET WELD BY DOUBLE EXPOSURE WITH IR192 IS POSSIBLE ALONG THE ENTIRE WELD LENGTH 67-04 M19-67434
ULTRASONIC FLAW DETECTOR FOR SEAMLESS TUBES
67-04 M19-67517
FLAW-MEASURING ULTRASONIC INSPECTION OF SEMIFINISHED METAL PRODUCTS 67-04 M19-67665
THE ULTRASONIC LOCATION OF DEFECTS IN FLASH WELDED RAILS 67-04 M19-67678
A SEMIAUTOMATIC APPARATUS FOR MEASURING THE DECREMENT OF THE FREE VIBRATIONS BY GAS TURBINE BLADES 67-04 M19-67859
NONDESTRUCTIVE TESTING IN OIL INDUSTRY
67-04 M19-68025
THE PRESENT SITUATION IN THE NON-DESTRUCTIVE TESTING OF WELDS 67-05 M19-68265
DEVELOPMENT OF ULTRASONIC TESTING TECHNIQUES FOR SATURN HONEYCOMB HEAT SHIELDS
67-05 M19-68441
ELECTRO-DISCHARGE MACHINED REFERENCE DISCONTINUITIES 67-05 M19-68442
INSPECTION OF THE HARDNESS OF RODS IN AN EMID-3 APPARATUS 67-05 M19-68448
NEW LOOK AT COATING THICKNESS 67-05 M19-68469
APPLYING NDT TO WELDS 67-05 M19-68688
CONTROLLING WELD QUALITY BY ULTRASONICS
67-05 M19-68806
TUBE CONTROL BY ELECTRONIC SOUND
67-05 M19-68929
VISUAL X-RAY INSPECTION OF WELDED JOINTS
67-05 M19-69046
RADIOGRAPHIC CONTROL OF WELDMENTS
67-05 M19-69124
ULTRASONIC INSPECTION OF LARGE SOLID-FUEL BOOSTER NOZZLES 67-05 M19-69800
SPECIAL FABRICATION TECHNIQUES 67-06 M01-70093
RADIOGRAPHIC ANALYSIS AND STRENGTH OF WELDED JOINTS
67-06 M11-70035
SOME FEATURES OF QUALITY CONTROL OF CONTACT WELDING USING REFERENCE MATERIAL
67-06 M11-70388
EXPERIENCES IN CONSTRUCTION AND OPERATION OF THE ICI TUBULAR REFORMER AT THE EFFINGHAM STREET WORKS OF THE EAST MIDLANDS GAS BOARD
67-06 M11-70541
TRANSMITTER FOR CONTROLLING THE PARAMETERS OF HOT ARTICLES 67-06 M19-70150
RADIOGRAPHY OF BOILERS AND PRESSURE VESSELS

67-06 M19-70363
NDT ON ADHESIVE JOINTS MAY OPEN UP NEW JOBS
67-06 M19-70717
MANUFACTURE AND INSPECTION OF THE ALUMINUM ALLOY CYLINDERS FOR COMPRESSED GASES BY THE NEW STANDARDS 67-06 M19-71446
THE VALUE OF NON-DESTRUCTIVE TESTING IN THE AIRCRAFT INDUSTRY 67-06 M19-71741
THE ORIGIN, DETECTION AND IDENTIFICATION OF DEFECTS IN STEEL FORGINGS 67-06 M19-71892
WHAT YOU SHOULD KNOW ABOUT TESTING ELECTROPLATED COATINGS 67-06 M19-72252
PROPERTIES DETERMINATION AND PROCESS CONTROL OF BORON FILAMENT COMPOSITES USING NONDESTRUCTIVE TEST METHODS 67-07 M09-73368
SEMI-AUTOMATIC CO2 WELDING OF PIPELINES
67-07 M11-73888
THE IMPORTANT MATERIALS PARAMETERS AFFECTING THE PERFORMANCE OF NUCLEAR REACTOR PRESSURE VESSELS
67-07 M17-73399
ARE ALL WELD DEFECTS HARMFUL 67-07 M19-72514
INSPECTION OF SPIRALLY WELDED PIPE
67-07 M19-72705
NUCLEAR TECHNIQUES IN NONDESTRUCTIVE TESTING
67-07 M19-73130
NONDESTRUCTIVE TESTING IN METALLURGY
67-07 M19-73208
A REVIEW OF NONDESTRUCTIVE TESTING
67-07 M19-73218
THE ORIGIN, DETECTION, AND IDENTIFICATION OF DEFECTS IN STEEL FORGINGS 67-07 M19-73370
NONDESTRUCTIVE TESTING OF BERYLLIUM
67-07 M19-73765
ULTRASONIC INSPECTION OF WELDED JOINTS IN BOILER TUBES 67-07 M19-73975
NDT APPLIED TO PIPELINE CONSTRUCTION AND OPERATION IN THE U.S.A. P.2 67-07 M19-74026
KRYPTONATES.. A NEW TECHNIQUE FOR THE DETECTION OF WEAR 67-07 M19-74027
WALL THICKNESS MEASUREMENTS BY NONDESTRUCTIVE METHODS IN THE PRODUCTION OF STEEL TUBES
67-07 M19-74110
PROGRESS IN NONDESTRUCTIVE TESTING IN THE COMECON COUNTRIES 67-07 M19-74271
APPLICATION OF THE METHOD OF EXOELECTRON EMISSION IN METAL SCIENCE 67-08 M19-76117
SYSTEMATIC NONDESTRUCTIVE TESTS ON TANK BOTTOMS OF STEAM GENERATORS BELONGING TO ELECTRICITE DE FRANCE 67-08 M19-76162
NDT APPLIED TO PIPELINE CONSTRUCTION AND OPERATION IN THE UNITED STATES. PT. 3 67-09 M11-77101
USE OF RADIOACTIVE ISOTOPES IN MINING AND NONFERROUS METALLURGY 67-09 M19-76891
NONDESTRUCTIVE INSPECTION TECHNIQUES FOR MULTILAYER CIRCUIT BOARDS 67-09 M19-77102
HIGHLY LOCALIZED MAGNETOGRAPHIC TESTING OF THE GROUND SURFACES OF STEEL COMPONENTS
67-09 M19-78067
NON-DESTRUCTIVE TESTING IN THE AEROSPACE INDUSTRY
67-09 M19-78278
BASIC FACTS ON INSPECTION OF CASTINGS
67-10 M19-79050
ELECTROMIGRATION EFFECTS IN ALUMINUM FILM ON SILICON SUBSTRATES 67-11 M16-81203
A RATIONAL APPROACH TO STANDARDS FOR WELDED CONSTRUCTION. PT. 2 67-11 M17-81500
ENGINEERING IMPLICATIONS OF NONDESTRUCTIVE TESTING OF ALUMINUM 67-11 M19-80293
EQUIPMENT TESTING. ARE YOU GETTING WHAT YOU PAY FOR
67-11 M19-81568
AUTOMATIC FLAW DETECTION OF WELDED JOINTS IN TUBES
67-12 M19-81920
NONDESTRUCTIVE TESTING OF COMPOSITE PARTS
67-12 M19-81935
TITANIUM CASTINGS FOR AIRFRAME STRUCTURAL APPLICATIONS 67-12 M20-82453

NONDESTRUCTIVE TESTING, LASERS
TESTING--A LOOK BEYOND THE PRODUCT
67-02 M19-61854

NONFERROUS ALLOYS, BONDING
EXPLOSIVE DONGING 67-12 M11-82989

NONFERROUS ALLOYS, CASTING
METALLURGICAL PRINCIPLES OF FEEDING NONFERROUS CASTINGS 67-06 M06-71896

NONFERROUS ALLOYS, CASTINGS
WHY CASTINGS 67-09 M06-77978

NONFERROUS ALLOYS, CORROSION
THE CHARACTERISTICS OF TRANSGRANULAR STRESS-CORROSION CRACKING 67-03 M18-65997
BENCH TESTING METALWORKING FLUIDS
67-12 M08-82913

NONFERROUS ALLOYS, FORGING
DROP FORGING 67-04 M07-67371

NONFERROUS ALLOYS, HEAT TREATMENT
HEAT TREATMENT OF METALS 67-06 M10-71946

NONFERROUS ALLOYS, METAL WORKING
METALWORKING 67-05 M01-69601

NONFERROUS ALLOYS, MICROSTRUCTURE
THE ANALYSIS OF FRACTURE SURFACES BY ELECTRON MICROSCOPY 67-05 M17-69448

NONFERROUS ALLOYS, SURFACE FINISHING
IMPROVED PERFORMANCE WITH THE TRIBOLUSTER PROCESS FOR DEBURRING AND SURFACING 67-10 M12-79189

NONFERROUS ALLOYS, WELDING
EXPLOSIVE WELDING TODAY 67-07 M11-74259

NONFERROUS METALS, BONDING
THE STATUS AND DEVELOPMENT TRENDS IN THE ADHESIVE BONDING OF METALS INCLUDING RECENT RESEARCH RESULTS 67-06 M11-71221

NONFERROUS METALS, CASTING
CRUCIBLE LININGS FOR CORELESS ELECTRIC INDUCTION FURNACES 67-05 M06-69887

NONFERROUS METALS, COATINGS
ELECTROPLATES--THEIR USE AND EFFICIENCY
67-01 M12-57550

NONFERROUS METALS, CORROSION
MICROSCOPIC AND ELECTRON FRACTOGRAPHIC STUDY OF TRACES OF THE INITIAL CAVITATION EFFECTS ON METAL SURFACES 67-10 M18-79221

NONFERROUS METALS, EXTRACTION
RECOVERY OF VALUABLE METALS FROM SLAGS, LEACHED RESIDUES AND SCRAPS BY A WET OXIDATION METHOD
67-10 M03-78742

NONFERROUS METALS, HEAT TREATMENT
A PRACTICAL VIEW OF DEFORMATION AND RECRYSTALLIZATION OF METALS 67-05 M14-69550
HEAT TREATMENT OF SOME NONFERROUS, REFRACTORY, AND RARE METALS AND ALLOYS IN INERT ATMOSPHERES
67-08 M10-75098

NONFERROUS METALS, MECHANICAL PROPERTIES
THE CREEP STRENGTH OF MATERIALS, AND HOW IT IS AFFECTED BY CORROSION 67-10 M17-79094

NONFERROUS METALS, METAL WORKING
FINE-BLANKED STAMPINGS NEED NO DEBURRING, SIZING
67-01 M08-58785
TUBE PRODUCTION CAPACITY INCREASED
67-12 M07-83165

NONFERROUS METALS, REACTIONS /CHEMICAL/
STUDY OF THE SORPTION AND SEPARATION OF IONS OF CERTAIN METALS BY PHOSPHORYLIZED CELLULOSE
67-05 M03-68969

NONFERROUS METALS, ROLLING
WORKING PRIOR TO FINISH ROLLING
67-06 M07-71209

NONFERROUS METALS, WELDING
STATE AND DEVELOPMENT OF WELDING MATERIAL MANUFACTURE 67-01 M11-57145
STATE OF DEVELOPMENT IN THE FIELD OF STUD WELDING
67-06 M11-72065

NONFERROUS SMELTING
SEE SMELTING

NONMECHANICAL CLASSIFIERS
SEE CYCLONE SEPARATORS

NONMETALLIC INCLUSIONS
RH DEGASSING UNIT FOR PLATE STEELS AT APPLEBY-FRODINGHAM 67-04 M04-67753
ANALYSIS OF PLANE-STRAIN FRACTURE IN A SERIES OF 0.45C-NI-CR-MO STEELS WITH DIFFERENT SULFUR CONTENTS 67-04 M17-66942
EFFECTS OF NONMETALLIC INCLUSIONS ON MECHANICAL PROPERTIES OF ELECTRIC RESISTANCE WELDED STEEL TUBES 67-04 M17-67514
DEOXIDATION OF IRON-CARBON ALLOYS WITH CERIUM AND THE RESULTING NONMETALLIC INCLUSIONS
67-06 M04-72209
DEOXIDATION OF LIQUID IRON WITH CALCIUM SILICIDE. PT. 1. STUDY OF THE BEHAVIOR OF COMPLEX DEOXIDANTS 67-06 M04-72390
NONMETALLIC IMPURITIES IN STEEL
67-07 M01-73189
FILTRATION OF LIGHT METAL MELTS
67-07 M03-73490
THE ASEA-SKF DEGASSING PROCESS 67-07 M04-73328
MINIMIZING THE AMOUNT OF SCALE AND NONMETALLIC INCLUSIONS IN CASTINGS OF 18-9 TI STEEL
67-07 M06-73015
THE SEPARATION AND ISOLATION OF NONMETALLIC INCLUSIONS 67-07 M13-73190

NONMETALLIC INCLUSIONS

THE CHEMICAL NATURE OF NONMETALLIC INCLUSIONS AND POSSIBLE METHODS OF THEIR DETERMINATION 67-07 M13-73191
EXTERNAL CHARACTERISTICS OF NONMETALLIC INCLUSIONS AND POSSIBLE METHODS OF THEIR DETERMINATION 67-07 M13-73192
SELECTION AND EVALUATION OF STEEL WITH DIFFERENT INCLUSION CHARACTERISTICS 67-07 M13-73193
NON-METALLIC INCLUSIONS IN CASTS OF 08KH2ON10G6 STEEL WITH DIFFERENT HOT WORKING PROPERTIES 67-07 M13-74146
THE NATURE OF HAIRLINE CRACKS IN ARMCO-TYPE STEEL. PT. 1 67-07 M17-73002
THE EFFECT OF NONMETALLIC INCLUSIONS ON CERTAIN MATERIAL PROPERTIES OF STEEL 67-07 M17-73194
NONMETALLIC INCLUSIONS IN CHILL MOLD CASTINGS OF MAGNESIUM IRON 67-08 M06-75195
EFFECT OF SILICON ON SURFACE PROPERTIES OF 18-8 STAINLESS STEEL SHEETS 67-09 M04-78010
PRODUCTION PROBLEMS INHERENT TO SURFACE CONDITIONS OF LOW-CARBON STEEL SHEET USED FOR DEEP DRAWING 67-09 M08-78004
NONMETALLIC INCLUSIONS IN FOUNDRY PRODUCTS 67-09 M13-78156
IMPROVED QUALITY OF ALUMINUM FOR SEMIFINISHED PRODUCTS 67-10 M03-79944
THE ELIMINATION OF OXIDE INCLUSIONS FROM WELDED JOINTS IN AMG6 ALLOY 67-10 M11-78519
QUALITY OF LARGE KH21N5T STEEL INGOT 67-10 M13-79274
EXAMINATION OF NONMETALLIC INCLUSIONS IN 38KHMYUA STEEL 67-10 M13-80036
DETERMINING THE TITANIUM COMPOUNDS IN TRANSFORMER STEEL 67-10 M14-78956
IMPROVING THE STRUCTURE AND PROPERTIES OF 10KH16N25M6 STEEL BY ADDING RARE EARTH METALS TO IT 67-10 M17-78964
THE INFLUENCE OF THE OXIDATION POTENTIAL OF THE GAS PHASE ON THE REMOVAL OF SULFUR AND NONMETALLIC INCLUSIONS IN THE ELECTROSLAG REMELTING OF STEEL 67-11 M04-80209
THE INFLUENCE OF ELECTROSLAG REMELTING ON THE QUALITY OF ROLLER BEARING STEEL 67-11 M04-80210
IMPROVING STEEL QUALITY THROUGH VACUUM ELECTRIC ARC MELTING AND THROUGH ELECTROSLAG REMELTING 67-11 M04-80211
PROTECTING STRUCTURAL STEELS FROM SECONDARY OXIDATION DURING TEEMING 67-11 M04-81009
EMF ELIMINATION OF NONMETALLIC INCLUSIONS FROM MOLTEN IRON 67-11 M04-81011
STEEL QUALITY FROM 100-TON OXYGEN CONVERTERS 67-11 M04-81406
DISTRUBUTION OF NONMETALLIC INCLUSIONS IN AN INGOT OF VACUUM ARC REMELTED BALL BEARING STEEL 67-11 M04-81414
STUDY OF NITRIDES IN WELD METAL DURING OPEN ARC WELDING OF STEEL 67-11 M11-80637
MICROMETALLURGY OF AUSTENITIC GRAIN SIZE CONTROL OF STEELS. PT. 1. EFFECT OF ALUMINUM ON PHYSICAL PROPERTIES 67-11 M13-80418
STUDIES ON THE NATURE AND ORIGIN OF NONMETALLIC INCLUSIONS IN BEARING STEELS 67-11 M13-80419
NON-METALLIC INCLUSIONS IN COLD-ROLLED TRANSFORMER STEEL 67-11 M13-80928
NONMETALLIC INCLUSIONS IN VACUUM INDUCTION SMELTED E1437B ALLOY 67-11 M13-81415
EFFECT OF IMPURITIES ON THE SECONDARY RECRYSTALLIZATION IN SILICON IRON 67-11 M14-80751
THE GROWTH AND THE DISTRIBUTION OF THE INCLUSIONS COMPOSED OF A LAYER-LIKE INCLUSIONS GROUP DURING THE DEOXIDATION OF LIQUID IRON WITH ALUMINUM 67-11 M14-80955
MECHANICAL-TECHNOLOGICAL PROPERTIES OF ULTRAPURE STRUCTURAL STEELS 67-11 M17-80221
CARBIDE SEGREGATION AND NONMETALLIC INCLUSIONS IN LOW-ALLOY STEELS 67-11 M19-81607
TYPES OF REFRACTORY ALLOYS AND THE METHODS BY WHICH THEY ARE PRODUCED. PT. 2 67-12 M03-81922
CURRENT-POTENTIAL EFFECTS OF ADDITIVES IN MANGANESE ELECTROWINNING. PT. 2 67-12 M03-82585
IMPURITIES IN ALUMINOTHERMIC CHROMIUM AND PURIFICATION OF THIS MATERIAL BY FUSED SALT ELECTROLYSIS 67-12 M03-83221
NONMETALLIC INCLUSIONS IN METAL DURING THE MELTING PROCESS 67-12 M04-81706
HYDROGEN AND OXYGEN IN THE BASIC OPENHEARTH METHOD--A CONTRIBUTION TO THE PHYSICS OF STEEL PRODUCTION 67-12 M04-81958
REMOVAL OF NON-METALLIC INCLUSIONS FROM METAL DURING ELECTROSLAG REMELTING 67-12 M04-83425
RELATIONSHIP BETWEEN NONMETALLIC INCLUSIONS IN FERROALUMINUM ALLOYS AND MELTING METHODS 67-12 M04-83473
SURFACE DEFECTS OF STEEL CASTINGS 67-12 M06-83571
CONTRIBUTION TO THE IDENTIFICATION OF CHARACTERISTIC NONMETALLIC INCLUSIONS IN FERROCHROMES WITH MEDIUM CARBON AND SILICON CONTENTS 67-12 M13-83340
STUDY OF AN 11.3-TON INGOT OF OPENHEARTH TRANSFORMER STEEL 67-12 M15-81864

NONMETALLIC INCLUSIONS, ALLOYING EFFECTS
NONMETALLIC INCLUSIONS IN RAIL STEEL INOCULATED WITH TITANIUM 67-10 M13-80035
NONMETALLIC INCLUSIONS IN RAIL STEEL AS ALLOYED WITH RARE EARTH ELEMENTS 67-11 M04-81447
HOW ALLOYING ELEMENTS AFFECT OXYGEN AND NITROGEN CONTENT IN STEEL FROM AN ARC VACUUM FURNACE 67-11 M04-81630

NONMETALLIC INCLUSIONS, CHEMICAL ANALYSIS
STUDY OF NONMETALLIC INCLUSIONS IN BALLBEARING STEELS 67-11 M19-81628
THE EFFECT OF NONMETALLIC NICLUSIONS ON THE FATIGUE STRENGTH OF QUENCH-HARDENED STEEL 67-12 M17-82189

NONMETALLIC INCLUSIONS, MAGNETIC PROPERTIES
HOW ELECTROMAGNETIC FORCES HELP TO REMOVE NONMETALLIC INCLUSIONS FROM MOLTEN METALS 67-11 M03-81409

NONMETALLIC INCLUSIONS, METALLOGRAPHY
CHARACTERISTICS OF INCLUSIONS IN STEELS DEOXIDIZED WITH SILICON AND SILICO-MANGANESE. PT. 3. DEFORMATION OF NONMETALLIC INCLUSIONS IN STEEL DURING ROLLING 67-06 M13-72202

NONMETALLIC INCLUSIONS, STRESS EFFECTS
DEFORMATION OF INCLUSIONS IN STEEL DEOXIDIZED WITH MANGANESE. PT. 1 67-07 M13-72436

NONMETALLIC INCLUSIONS, X RAY ANALYSIS
EFFECT OF NICKEL UPON OXIDE INCLUSIONS IN CHROME-NICKEL STEELS 67-06 M13-72280
EXPERIMENTS ON THE FORMATION OF SULFIDE INCLUSIONS IN STEEL. PT. 1. A STUDY OF INCLUSIONS IN FREE-CUTTING STEEL 67-07 M13-72494

NONMETALLIFEROUS MINERALS
SEE ALSO BARITE
CALCITE
CLAY MINERALS
CRYOLITE
FLUORITE
GRAPHITE

NONMETALLIFEROUS MINERALS, BENEFICIATION
FLOTATION PROPERTIES OF RARE METAL MINERALS 67-08 M02-75165

NONMETALS
SEE ALSO KRYPTON

NONMETALS, COATING
ELECTROLESS PLATING FOR ELECTRONIC APPLICATIONS 67-07 M12-72771

NONMETALS, MECHANICAL PROPERTIES
FRACTURE OF STRUCTURAL MATERIALS 67-07 M17-74129

NONSTOICHIOMETRIC COMPOUNDS
NONSTOICHIOMETRY OF CADMIUM SULFIDE THIN FILMS 67-04 M15-67327
SELF-DIFFUSION COEFFICIENT OF URANIUM IN URANIUM MONOCARBIDE 67-12 M14-83157

NONSTOICHIOMETRIC COMPOUNDS, CRYSTAL GROWTH
PREPARATION OF EPITAXIAL GAXIN1-XAS 67-05 M14-68623

NONSTOICHIOMETRIC COMPOUNDS, CRYSTAL LATTICES
STRUCTURE OF CUBIC TUNGSTEN NITRIDE 67-04 M13-66394
BONDING, LATTICE PARAMETER, DENSITY AND DEFECT STRUCTURE OF TIN CONTAINING AN EXCESS OF N 67-04 M13-66537
SOME NOTES ON THE PALLADIUM-SILICON SYSTEM 67-04 M13-68156
STRUCTURE OF CUBIC TUNGSTEN NITRIDE 67-05 M13-68592
STUDIES OF THE DEFECT STRUCTURE OF NONSTOICHIOMETRIC RUTILE, TIO2-X 67-05 M13-68624
CHARACTERIZATION OF POINT DEFECTS IN NONSTOICHIOMETRIC COMPOUNDS FROM THERMODYNAMIC CONSIDERATIONS 67-10 M13-79116

NONSTOICHIOMETRIC COMPOUNDS, ELECTRICAL PROPERTIES

SOME ELECTROPHYSICAL PROPERTIES OF NIOBIUM AND ZIRCONIUM CARBIDES IN THEIR HOMOGENEOUS REGIONS 67-06 M15-72041
TIME DEPENDENT CONDUCTIVITY IN TITANIUM OXIDE 67-07 M15-73638

NONSTOICHIOMETRIC COMPOUNDS, MAGNETIC PROPERTIES
MAGNETIC SUSCEPTIBILITIES OF CUBIC UO2 PLUS X AT HIGH TEMPERATURE 67-03 M15-65155
PRESSURE EFFECT ON MAGNETIC TRANSITIONS IN CRS1.17 67-04 M15-67481
EFFECT OF OXYGEN DEFICIENCY ON THE MAGNETIC PROPERTIES OF COPPER FERRITE 67-04 M15-67484
MAGNETIC-SUSCEPTIBILITY STUDIES ON THE MAGNELI PHASES OF THE TITANIUM-OXYGEN SYSTEM 67-07 M15-73601
MAGNETIC PROPERTIES OF FEXO AS RELATED TO THE DEFECT STRUCTURE 67-07 M15-73602
ORDER-DISORDER OF NONSTOICHIOMETRIC BINARY ALLOYS AND ISING ANTIFERROMAGNETS IN MAGNETIC FIELDS 67-11 M14-80660

NONSTOICHIOMETRIC COMPOUNDS, MECHANICAL PROPERTIES
ELASTIC PROPERTIES OF ZIRCONIUM CARBIDE 67-03 M17-65385
TEMPERATURE AND ORIENTATION DEPENDENCE OF THE FLOW STRESS IN OFF-STOICHIOMETRIC NI3AL --GAMMA PHASE-- 67-12 M17-82719

NONSTOICHIOMETRIC COMPOUNDS, MICROSTRUCTURE
MULTIPLE ELECTRON DIFFRACTION. APPLICATION TO EVAPORATING UO2 PLUS X 67-02 M13-60812

NONSTOICHIOMETRIC COMPOUNDS, OPTICAL PROPERTIES
THE REFLECTANCE OF THE INTERMETALLIC COMPOUNDS NIAL AND COAL 67-03 M15-65640

NONSTOICHIOMETRIC COMPOUNDS, PHYSICAL PROPERTIES
ELECTRIC AND MAGNETIC PROPERTIES OF VO 67-04 M15-67486
ELECTRICAL RESISTIVITY, MAGNETIC SUSCEPTIBILITY, AND THERMAL EXPANSION OF THORIUM MONOCARBIDE 67-07 M15-74239

NONSTOICHIOMETRIC COMPOUNDS, SEMICONDUCTORS
ELECTRICAL PROPERTIES OF NONSTOICHIOMETRIC THORIUM CARBIDES 67-12 M15-82364

NONSTOICHIOMETRIC COMPOUNDS, SUPERCONDUCTIVITY
SUPERCONDUCTING PROPERTIES OF GERMANIUM TELLURIDE 67-04 M16-66792

NONSTOICHIOMETRIC COMPOUNDS, SYNTHESIS
PREPARATION OF URANIUM CARBIDE FROM URANIUM CHLORIDE 67-02 M03-60680
A NEW FAMILY OF OXYGENATED BRONZES--THE CDXWO3 SERIES 67-02 M14-62286

NONSTOICHIOMETRIC COMPOUNDS, THERMAL PROPERTIES
EFFECT OF IRRADIATION ON THE THERMAL CONDUCTIVITY OF UO2-X, STOICHIOMETRIC AND NONSTOICHIOMETRIC UO2 AT 60 C 67-04 M15-67458
A STUDY OF UC1-XOX. PT. 3 67-07 M15-74013

NONSTOICHIOMETRIC COMPOUNDS, THERMODYNAMICS
HIGH-TEMPERATURE VAPORIZATION AND THERMODYNAMICS OF TITANIUM OXIDES. PT. 1. VAPORIZATION CHARACTERISTICS OF THE CRYSTALLINE PHASES 67-07 M14-74215
THERMODYNAMIC PROPERTIES AND NONSTOICHIOMETRY OF OF THORIUM DICARBIDE 67-07 M15-74227

NONSTOICHIOMETRIC COMPOUNDS, TRANSPORT PROPERTIES
HALL EFFECTS OF VANADIUM DIOXIDE POWDER 67-03 M16-65644
EFFECTS OF ORDERING ON THE TRANSPORT PROPERTIES OF SODIUM TUNGSTEN BRONZE 67-11 M15-81397

NORMALIZING /HEAT TREATMENT/
HEAT TREATMENT OF LARGE PLATES OF WAKAYAMA STEEL WORKS 67-01 M10-58251
LARGE STEEL CASTINGS HEAT TREATED IN SELF-GENERATING ATMOSPHERE FURNACE 67-01 M10-58448
NEW 196-FT. ROLLER HEARTH FURNACE INSTALLED AT BETHLEHEM-LOS ANGLES 67-01 M10-58526
PRINCIPLES OF HEAT TREATMENT OF STEELS. CARBON CONSTRUCTIONAL STEELS 67-02 M10-59085
RESEARCH INTO THE EFFECTS OF INDUCTION HEATING DURING NORMALIZATION ON THE MICROSTRUCTURE AND PROPERTIES OF BUTT WELDED JOINTS IN DRILL PIPE 67-02 M10-59790
NEW HEAT TREATMENT OF 35GL MANGANESE STEEL CASTINGS 67-02 M10-60860
INFLUENCE OF COLD TREATMENT ON STRUCTURE AND PROPERTIES OF VNS5 STAINLESS STEEL WELDS 67-02 M17-61242
THE EFFECTS OF COLD TREATMENT ON JOINTS IN VNS5 STEEL 67-04 M17-66514
QUENCHED AND TEMPERED STEEL PLATES AND PROCESSING EQUIPMENT 67-06 M10-71945
HEAT TREATMENT OF LARGE FORGINGS 67-07 M10-73717
INTENSIFYING THE HEAT TREATMENT OF LOW-ALLOY LOW-CARBON SHEET STEEL 67-07 M10-73791
PRACTICAL ISSUES IN HEAT TREATMENT OF LARGE FORGINGS 67-07 M10-74169
THE PRODUCTION OF COLD TOUGH STRUCTURAL STEELS FOR USE AT -65C 67-07 M17-73223
NEW TECHNIQUE OF HEAT TREATMENT OF CASTINGS OF 35GL STEEL 67-08 M10-76118
PRODUCTION OF ALUMINIUM-KILLED STEEL SHAPES FOR LOW TEMPERATURE SERVICES--NK-LTC 67-09 M04-77336
INTENSIFYING HEAT-TREATMENT CONDITIONS FOR LOW-ALLOY MILD STEELPLATE 67-09 M10-76554
SOME FATIGUE TESTS ON FILLET WELDED MILD AND HIGH TENSILE STEEL SPECIMENS IN THE AS-WELDED AND NORMALIZED CONDITIONS 67-09 M17-76653
THE BASIC PRINCIPLES OF HEAT TREATMENT OF STEELS. PT. 7. STEELS FOR USE AT LOW TEMPERATURES 67-11 M10-80394
EFFECT OF HEAT TREATMENT ON THE AMOUNT AND DISTRIBUTION OF HYDROGEN IN LARGE FORGINGS 67-12 M10-81876

NOTCH BAR IMPACT STRENGTH
SEE IMPACT STRENGTH
NOTCH STRENGTH

NOTCH BRITTLENESS
SEE BRITTLENESS

NOTCH DUCTILITY
SEE DUCTILITY

NOTCH EFFECT
SEE NOTCH SENSITIVITY

NOTCH IMPACT STRENGTH
SEE IMPACT STRENGTH
NOTCH STRENGTH

NOTCH IMPACT TESTS
SEE IMPACT TESTS

NOTCH IMPACT VALUE
SEE IMPACT STRENGTH
NOTCH STRENGTH

NOTCH SENSITIVITY
MEASURING THE LOSS IN DUCTILITY CAUSED BY TENSOTHERMAL EMBRITTLEMENT 67-02 M17-59171
EFFECT OF VARIOUS FACTORS ON THE STRESS CONCENTRATION SENSITIVITY OF HEAT RESISTANT MATERIALS AT HIGH TEMPERATURES 67-02 M17-59690
ON THE INFLUENCE OF NOTCHES AND HEAT TREATMENT ON THE FATIGUE STRENGTH OF TUNGSTEN CARBIDE-COBALT ALLOYS 67-02 M17-60121
INFLUENCE OF STRESS CONCENTRATORS ON ENDURANCE OF WELDED STRUCTURES 67-02 M17-61244
DETERMINING THE CREEP STRENGTH OF PEARLITIC STEEL THREADED SPECIMENS 67-03 M17-65609
THE EFFECTS OF STRESS RAISERS ON THE EFFICIENCY OF WELDED STRUCTURES 67-04 M17-66515
EFFECT OF NOTCH ACUITY ON BRITTLE FRACTURE BEHAVIOUR OF MILD STEEL AT 77 K 67-04 M17-66988
NOTCH SENSITIVITY AND CRACK SUSCEPTIBILITY OF ATSM, ATSMU AND AM ALLOYS AND OF THEIR WELDED JOINTS 67-04 M17-67146
STUDY OF THE EFFECT OF A NOTCH ON THE FATIGUE BEHAVIOR OF A CR-MO STEEL 67-05 M17-68783
DETERMINING THE DUCTILITY OF METALS FROM THE RESULTS OF DYNAMIC BEND TESTS 67-06 M17-70913
NOTCH BRITTLENESS IN MILD STEEL AT -196 C 67-06 M17-71331
STRESS INTENSITY FACTORS FOR HOLLOW CIRCUMFERENTIALLY NOTCHED ROUND BARS 67-06 M17-71633
COMPARISON OF DIFFERENT NOTCH IMPACT TEST SPECIMENS 67-07 M17-72418
INTRODUCTION TO FRACTURE TOUGHNESS 67-07 M17-72487
EMBRITTLEMENT OF STEEL. PT. 3 67-07 M17-72668
ON STRESS INTENSIFICATIONS IN SPECIMENS OF CHARPY GEOMETRY PRIOR TO GENERAL YIELD 67-07 M17-72881
NOTCH EFFECTS ON SLIP, TWINNING AND FRACTURE IN SILICON-STEEL 67-07 M17-72882
DETERMINING THE LONG-TERM STRENGTH OF THREADED TEST BARS OF PEARLITE STEEL 67-08 M17-74534
SENSITIVITY OF SHKH15 STEEL TO STRESS CONCENTRATIONS AFTER DIFFERENT HEAT TREATMENTS 67-08 M17-76006
CONTRIBUTION TO THE INVESTIGATION OF A CORRELATION

NOTCH SENSITIVITY
BETWEEN NOTCH SENSITIVITY AND SENSITIVITY TO STRESS CORROSION IN THE PRESENCE OF HYDROGEN IN THE CASE OF CERTAIN STEELS 67-08 M18-76221
A STUDY ON THE FATIGUE CRACK PROPAGATION OF A CAST SILUMIN CONTAINING COPPER 67-09 M17-78228
A VERSATILE ALUMINUM ALLOY FOR CRYOGENIC APPLICATIONS 67-10 M17-78486
DETERMINATION OF THE NOTCH EFFECT OF WELD DEFECTS IN FATIGUE TESTING 67-10 M17-78778
THE EFFECT OF STRUCTURAL MICROHETEROGENEITIES UPON THE STRENGTH OF PLATES WITH HYPERBOLIC NOTCHES 67-12 M17-82433
CRACK SENSITIVITY OF HIGH-STRENGTH STEELS WHEN TESTED IN AIR AND IN DISTILLED WATER 67-12 M17-83525
NOTCH SENSITIVITY OF KH21G7AN5 STAINLESS STEEL AT LIQUID HYDROGEN TEMPERATURE 67-12 M17-83533
LOW-TEMPERATURE MECHANICAL PROPERTIES OF SOME ALUMINUM ALLOY WELDS 67-12 M17-83534
NOTCH SENSITIVITY, ALLOYING EFFECTS
THE DELETERIOUS EFFECT OF SMALL QUANTITIES OF ALUMINUM ON THE STRESS-RUPTURE PROPERTIES OF A CR-MO-V STEEL 67-08 M17-75971
MAKING THE MOST OF STEEL COMPOSITION 67-09 M17-76418
NOTCH SENSITIVITY, HEATING EFFECTS
THE FRACTURE BEHAVIOR OF CASE-HARDENED PARTS 67-12 M17-82838
NOTCH SENSITIVITY, WELDING EFFECTS
INFLUENCE OF WELDING CONDITIONS ON THE STRESS CONCENTRATION SENSITIVITY OF 15KHSND WELDED JOINTS 67-03 M17-65045
THE WELDING OF STEELS FOR LOW TEMPERATURE APPLICATIONS 67-06 M11-71596
CALCULATING THE FATIGUE STRENGTH OF WELDED JOINTS TAKING STRESS CONCENTRATORS INTO CONSIDERATION 67-06 M17-70385
THE EFFECT OF WELDING CONDITIONS ON THE SENSITIVITY TO STRESS RAISERS OF JOINTS IN 15KHSND STEEL 67-07 M17-73965
NOTCH STRENGTH
BETHLEHEM INSTALLS NEW PLATE QUENCH AND TEMPER FACILITY 67-01 M10-58495
MECHANICAL PROPERTIES OF SEVERAL 2000 AND 6000 SERIES ALUMINUM ALLOYS 67-01 M17-57627
INVESTIGATION OF THE POSSIBILITIES OF USING WROUGHT ALUMINUM ALLOYS, ESPECIALLY OF THE TYPE ALZNMGCU, FOR SPRINGS SUBJECTED TO BENDING AND TORSIONAL STRESSES. PT. 2 67-01 M17-58224
METALLURGICAL ADVANTAGES AND ADVANCES IN HEAT TREATED STEELS, WITH PARTICULAR REFERENCE TO THE WELDABLE CONSTRUCTIONAL STEELS. PT. 3 67-01 M17-58449
HIGH-STRENGTH WELDABLE 13 PER CENT CHROMIUM CASTING STEEL 67-01 M17-58619
DETERMINING THE IMPACT STRENGTH OF BUTT WELDED JOINTS BETWEEN STEEL PLATES 67-02 M17-61059
FORGING AND SOLUTION TREATING ALLOY 718 67-03 M10-65977
FRACTURE TOUGHNESS DETERMINATIONS OF A-302B AND NI-MO-V STEELS WITH VARIOUS SIZE SPECIMENS 67-04 M17-66237
REPEATED TENSILE IMPACT TEST ON CARBON STEEL WITH V NOTCHES 67-08 M17-75133
THE VALUE OF THE AGING FACTORS OF IMPACT TEST-- TEMPERATURE CURVES ON TEST WIDTHS OF LESS THAN 10 MM --0.4 IN.-- 67-08 M17-75945
NOTCH TOUGHNESS OF SOME ALUMINUM ALLOY CASTINGS AT CRYOGENIC TEMPERATURES 67-10 M17-78485
CRACKING OF A STRONG ALUMINIUM ALLOY USED IN AIRCRAFT CONSTRUCTION 67-10 M17-78753
PLASTIC-STRAIN DISTRIBUTION AT THE ROOT OF A SHARP NOTCH 67-11 M17-80652
NOTCH STRENGTH, ALLOYING EFFECTS
THE INFLUENCE OF TITANIUM ON THE ELECTROSLAG WELDING OF STEEL 67-09 M11-77341
NOTCH STRENGTH, HEATING EFFECTS
STUDY OF 9 PER CENT NICKEL LOW-CARBON STEELS WITH SPECIAL REFERENCE TO THE RELATION BETWEEN THE PRECIPITATION AUSTENITE AND THE TOUGHNESS OF 0.1 PER CENT C 9 PER CENT NICKEL STEEL 67-02 M17-59115
NOTCH STRENGTH, IMPURITY EFFECTS
THE EFFECTS OF OXYGEN ON THE MECHANICAL AND CORROSION PROPERTIES OF HAFNIUM 67-01 M17-58457
NOTCH STRENGTH, STRESS EFFECTS
EFFECT OF THE DEFORMATION SPEED ON THE DUCTILE-TO-BRITTLE TRANSITION BEHAVIORS OF A MILD STEEL. STUDY ON THE DEPENDENCE OF MECHANICAL PROPERTIES OF METALS UPON THE STRAIN RATE. PT. 2 67-02 M17-59992
NOTCH STRENGTH, TEMPERATURE EFFECTS
INVESTIGATION OF IMPACT STRENGTH OF AUSTENITIC STEELS AT LOW TEMPERATURES 67-02 M17-61979
IMPACT TOUGHNESS OF AUSTENITIC STEELS AT LOW TEMPERATURES 67-10 M17-78836
NOTCH TOUGHNESS
PROPERTIES OF STEEL PLATES --SUMITEN 60-- HAVING TENSILE STRENGTH OF 60 KG/MM2 67-01 M17-58248
THE EFFECT OF COOLING RATES DURING HARDENING ON THE TOUGHNESS OF HOT WORK TOOL STEELS 67-01 M17-58337
USABILITY OF WEL-TEN 80C WELDED JOINTS OF HIGH-TENSION STEEL 67-02 M17-58940
THE NOTCH TOUGHNESS OF MILD STEEL AND LOW ALLOY WELD METALS 67-02 M17-60909
THE SS WELDING PROCESS --IMPROVED SUBMERGED ARC WELDING-- 67-03 M11-65819
EFFECT OF SIDE GROOVING ON MEASUREMENTS OF PLANE-STRAIN FRACTURE TOUGHNESS 67-03 M17-65314
TITANIUM ALLOYS LOOK BEST FOR MACH 3 TRANSPORT AIRCRAFT 67-03 M17-65489
EFFECT OF COLD WORKING ON THE TOUGHNESS OF 9 PER CENT NICKEL STEEL 67-05 M17-69366
INFLUENCE OF ROLLING TEXTURE ON TOUGHNESS OF STEEL 67-06 M17-71262
EFFECT OF NOTCH DEPTH ON FRACTURE OF MILD STEEL SPECIMENS AFTER GENERAL YIELD 67-06 M17-71332
THE DEEP NOTCH TEST AND BRITTLE FRACTURE INITIATION 67-06 M17-71688
STUDY OF THE EFFECT OF GRAIN SIZE OF STEEL ON THE TRANSITION TEMPERATURE OF THE NOTCH TOUGHNESS 67-06 M17-71750
COMPARISON OF TWO METHODS FOR TESTING THE SUSCEPTIBILITY TO AGING OF HEAVY PLATE ROLLED FROM GENERAL STRUCTURAL STEELS 67-07 M17-73288
WHATS SO TOUGH ABOUT CRYOGENIC COLD 67-08 M17-74441
EFFECTS OF DIRECTION OF TEXTURE IN ROLLED STOCK ON RESISTANCE OF STEEL TO INITIATION AND DEVELOPMENT OF CRACKS 67-08 M17-75731
PROPERTIES OF NICKEL-MOLYBDENUM-ALUMINUM AGE HARDENING STEELS 67-10 M17-79735
NEW PLATE TECHNOLOGY EQUALS NEW MARKETS 67-10 M20-80094
THE INFLUENCE OF REMELTING UNDER VACUUM ON THE PROPERTIES OF HOT WORKED STEELS 67-11 M17-80216
MECHANICAL-TECHNOLOGICAL PROPERTIES OF ULTRAPURE STRUCTURAL STEELS 67-11 M17-80221
NOTCH TOUGHNESS, CASE HARDENING
THE USE OF IMPACT TORSION TESTING IN THE TESTING OF SURFACE-TREATED MATERIALS 67-02 M17-60024
NOTCH TOUGHNESS, IMPURITY EFFECTS
A STUDY OF THE TOUGHNESS DIFFERENCES BETWEEN ALUMINUM-KILLED AND SEMIKILLED STEELS 67-01 M17-58461
NOTCH TOUGHNESS, RADIATION EFFECTS
IN-DEPTH EMBRITTLEMENT OF A SIMULATED PRESSURE 67-07 M17-73390
NOTCH TOUGHNESS, STRESS EFFECTS
ROLE OF THEORETICAL STRESS-CONCENTRATION FACTOR IN EVALUATING NOTCH TOUGHNESS 67-07 M17-73133
NOTCH TOUGHNESS, TEMPERATURE EFFECTS
NOTCH TOUGHNESS OF SOME ALUMINUM ALLOY CASTINGS AT CRYOGENIC TEMPERATURES 67-09 M17-77304
NOTCHED BAR TENSILE TEST
SEE TENSION TESTS
NOTCHED BEND TEST
SEE BEND TESTS
NOTCHED TENSILE STRENGTH
SEE NOTCH STRENGTH
TENSILE STRENGTH
NOZZLES
SEE ALSO JET NOZZLES
ROCKET NOZZLES
BLAST-FURNACE TUYERE WITH FUEL OIL FEED NOZZLE 67-03 M04-65948
THE POWER ECONOMICS OF THE USE OF SAND BLASTING NOZZLES IN FOUNDRIES 67-04 M06-67255
A STUDY OF CONTINUOUS CASTING OF STEEL. PT. 1. EROSION RESISTANCE TESTS ON REFRACTORIES FOR TUNDISH NOZZLES USED IN CONTINUOUS CASTING OF

STEEL 67-05 M04-69072
POURING PIT REFRACTORIES--NOZZLES 67-10 M04-79565
NOZZLES, CASTING
ELONGATED NOZZLES FOR CASTING STEEL IN CONTINUOUS CASTING STEEL INSTALLATIONS 67-03 M04-65907
NOZZLES, MANUFACTURING
PRODUCTION OF ZIRCONIA NOZZLES FOR CONTINUOUS CASTING OF STEEL 67-03 M05-65302
NOZZLES, THERMAL PROPERTIES
REFRACTORIES FOR CONTINUOUS CASTING OF LOW-CARBON RIMMED STEEL 67-12 M04-82637
NP JUNCTIONS
SEE PN JUNCTIONS
NPN JUNCTIONS
GALLIUM ARSENIDE PLANAR TECHNOLOGY 67-04 M16-67101
NPN JUNCTIONS, DEFECTS
DIFFUSION-INDUCED DEFECTS IN SILICON. PT. 2 67-05 M14-69208
NUCLEAR BINDING ENERGY
SEE BINDING ENERGY /NUCLEAR/
NUCLEAR CHEMISTRY
SEE RADIOCHEMISTRY
NUCLEAR CROSS SECTIONS
SEE SCATTERING CROSS SECTIONS
NUCLEAR ENERGY
SEE NUCLEAR POWER GENERATION
NUCLEAR ENGINEERING
STRUCTURE AND MECHANICAL PROPERTIES OF LOW-PER CENT FE DISPERSION-STRENGTHENED AL-FEAL3 ALLOYS FOR NUCLEAR APPLICATIONS 67-12 M09-82807
ALUMINUM AND MAGNESIUM IN REACTOR METALLURGY 67-12 M20-83144
NUCLEAR FISSION
FISSION-GAS RELEASE DURING FISSIONING IN UO2 67-05 M16-68350
FISSION FRAGMENT DAMAGE IN TUNGSTEN 67-05 M16-68761
EFFECT OF FISSION FRAGMENTS ON THE MICROSTRUCTURE OF AN AUSTENITIC STAINLESS STEEL 67-06 M14-70891
FUEL-WATER REACTIONS 67-09 M14-77317
FISSION GAS RELEASE FROM MIXED OXIDE FUELS 67-09 M16-76358
COMPARATIVE MEASUREMENTS OF URANIUM ATOM EMISSION FROM FISSIONING SURFACES 67-11 M16-80495
NUCLEAR FORCES
SEE BINDING ENERGY /NUCLEAR/
NUCLEAR FUELS
INFLUENCE OF MANUFACTURING PARAMETERS ON THE QUALITY OF FUEL ELEMENTS CONTAINING PLUTONIUM 67-01 M05-58542
EXPERIMENTAL STUDY OF PRODUCTION OF THO2 AND THO2-UO2 PELLETS 67-04 M03-68037
FUEL AND FERTILE MATERIALS 67-06 M01-70089
NUCLEAR POISONS 67-06 M01-70091
SPECIAL FABRICATION TECHNIQUES 67-06 M01-70093
PROPERTIES OF PLUTONIUM MONONITRIDE AND ITS ALLOYS 67-09 M01-76342
INFLUENCE OF POWDER HEAT TREATMENT ON THE SINTERING OF --UPU--O2 67-09 M09-76337
REFRACTORY PLUTONIUM FUEL MATERIALS 67-09 M09-76338
STATUS OF METALLIC PLUTONIUM FAST POWER BREEDER FUELS 67-09 M16-76327
METALLIC PLUTONIUM ALLOYS FOR FAST CRITICAL EXPERIMENTS 67-09 M16-76329
TRANSURANIC ELEMENTS AND THE HIGH-FLUX ISOTOPE REACTOR 67-09 M16-76487
SOME PROBLEMS OF THE PRODUCTION AND FABRICATION ECONOMICS OF SINTERED UO2 67-11 M16-80793
APPLICATION OF LIQUID-LIQUID EXTRACTION TO THE TREATMENT OF IRRADIATED FUELS. PT. 1. PHYSICO-CHEMICAL ASPECTS 67-12 M16-82280
PRODUCTION AND PROPERTIES OF REACTOR FUELS 67-12 M20-83349
NUCLEAR FUELS, CHEMICAL ANALYSIS
MICRO-THERMOBALANCE FOR THE ANALYSIS OF IRRADIATED NUCLEAR FUELS 67-07 M19-73153
PRESENT STATE OF THE CHEMICAL ANALYSIS OF NUCLEAR FUELS AND REACTOR MATERIALS IN JAPAN 67-08 M19-74681
NUCLEAR FUELS, CLADDING
REVIEW OF WORK ON BERYLLIUM AS CLADDING MATERIAL 67-01 M12-57992
NUCLEAR FUELS, COATING
CARBON-COATED CARBIDE PARTICLES FOR NUCLEAR FUEL ELEMENTS 67-02 M16-60713
COATED-PARTICLE FUELS. PARTICLE COATING 67-09 M16-77312
COATED-PARTICLE FUELS--IRRADIATION AND EVALUATION OF COATED-PARTICLE FUELS 67-09 M16-77313
NUCLEAR FUELS, COOLING SYSTEMS
CORROSION 67-11 M18-80471
NUCLEAR FUELS, CORROSION
MECHANISM OF CORROSION OF FUEL ALLOYS 67-09 M18-77318
NUCLEAR FUELS, EXTRACTION
PRODUCTION OF URANIUM METAL FROM URANIUM OXIDE BY FUSED SALT ELECTROLYSIS 67-06 M03-71698
FAST EXTRACTION IN FUEL PROCESSING 67-09 M16-77201
NUCLEAR FUELS, EXTRUSION
A STUDY OF THE FABRICATION OF A FUEL ELEMENT FOR THE BR-2 REACTOR BY COEXTRUSION AND DRAWING 67-09 M07-78262
NUCLEAR FUELS, HEAT TREATMENT
HEAT TREATMENT OF URANIUM AND URANIUM-THORIUM OXIDES PRODUCED BY SOL-GEL PROCESS 67-02 M10-59413
NUCLEAR FUELS, IRRADIATION
THE INFLUENCE OF NEUTRON RADIATION UPON PLUTONIUM CONTAINING SOLIDS 67-09 M16-76352
IRRADIATION BEHAVIOUR OF SOLID SOLUTION URANIUM-PLUTONIUM MONOCARBIDES AT HIGH BURNUPS 67-09 M16-76355
IRRADIATION TESTING OF UO2-PUO2 FUELS 67-09 M16-76357
VAPORIZATION OF FISSION PRODUCTS FROM IRRADIATED FUELS. PT. 1. EXPERIMENTAL METHOD AND GENERAL FISSION-PRODUCT BEHAVIOR 67-12 M16-82698
NUCLEAR FUELS, MATERIALS
URANIUM METAL AND ALLOYS. UNALLOYED URANIUM 67-09 M16-77308
PLUTONIUM. PLUTONIUM METAL AND ALLOYS 67-09 M16-77309
THORIUM 67-09 M16-77310
METAL-CERAMIC FUELS. DISPERSION FUELS --LESS THAN 50 VOL. PER CENT CERAMIC PHASE-- 67-09 M16-77311
URANIUM AND THORIUM OXIDES--PROPERTIES AND BEHAVIOR 67-09 M16-77314
URANIUM AND THORIUM OXIDES--FABRICATION 67-09 M16-77315
CARBIDE AND NITRIDE FUELS--PROPERTIES AND BEHAVIOR 67-09 M16-77316
NUCLEAR FUELS, MICROSTRUCTURE
THERMAL SIMULATION OF IN-REACTION MICROSTRUCTURES IN THO2-UO2 67-12 M13-82992
NUCLEAR FUELS, NONDESTRUCTIVE TESTING
DETERMINATION OF URANIUM SURFACE-CONCENTRATION OF COATED PARTICLES 67-01 M16-58232
NONDESTRUCTIVE MATERIAL TESTING IN THE PRODUCTION OF FUEL ELEMENTS 67-02 M16-60022
NUCLEAR FUELS, PHYSICAL PROPERTIES
IRRADIATION BEHAVIOR OF URANIUM FUEL TUBES IN A PRESSURIZED HEAVY-WATER REACTOR 67-06 M16-71055
A BOOMLET IN ZIRCALOY 67-06 M20-71067
NUCLEAR FUELS, POWDER METALLURGY
ATOMIZING TECHNIQUES AS AUXILIARY MEANS IN THE POWDER SINTERING PROCESS 67-02 M09-58932
JOINING TECHNIQUES FOR SAP--CLAD NUCLEAR FUEL ELEMENTS 67-07 M11-73825
PREPARATION OF UO2-PUO2-ZRO2 FUELS 67-09 M09-76339
PROCESSING NUCLEAR FUELS 67-12 M09-82598
NUCLEAR FUELS, RADIATION EFFECTS
PERFORMANCE OF PYROLYTIC CARBON-COATED URANIUM OXIDE PARTICLES DURING IRRADIATION AT HIGH TEMPERATURE 67-06 M16-71054
IRRADIATION BEHAVIOR OF PLUTONIUM ALLOY FUELS FOR FAST REACTORS 67-09 M16-76353
BASIC STUDIES OF IRRADIATION EFFECTS IN FUEL MATERIALS 67-09 M16-77319
NUCLEAR FUELS, REACTIONS /CHEMICAL/
THE MECHANISM OF METAL OXIDATION AT HIGH TEMPERATURES 67-02 M18-62008
TUNGSTEN CRUCIBLES IN PYROCHEMICAL PROCESSING OF NUCLEAR FUELS 67-06 M01-70714
DISSOLUTION KINETICS OF NUCLEAR FUELS. PT. 1. URANIUM 67-06 M14-70480
THORIUM 67-06 M14-70481
METAL--WATER REACTIONS 67-09 M14-77320
NUCLEAR FUELS, REACTIONS /NUCLEAR/
ATOMIC DISPLACEMENT AND IMPURITY EFFECTS IN FISSILE METALS 67-04 M16-67321

NUCLEAR FUELS, REFINING
STUDY OF THE DRY CHEMICAL TREATMENT OF URANIUM-ZIRCONIUM FUELS 67-02 M03-59420
NUCLEAR FUELS, STANDARDS
STANDARDS FOR NUCLEAR FUEL MATERIALS 67-09 M19-77022
NUCLEAR FUELS, THERMAL PROPERTIES
EFFECTIVE THERMAL CONDUCTIVITY AND STRUCTURAL CHANGE OF UO2 POWDER COMPACTED FUEL IN THERMAL SIMULATION EXPERIMENT 67-12 M15-83550
NUCLEAR MAGNETIC RESONANCE
ACOUSTIC NUCLEAR SPIN RESONANCE IN METALS 67-01 M16-57965
NUCLEAR MAGNETIC RESONANCE OF FE57 IN SINGLE-CRYSTAL HEMATITE 67-02 M15-60531
NUCLEAR MAGNETIC RESONANCE IN THE PARAMAGNETIC STATES OF MNO, ALPHA MNS, AND ALPHA MNSE 67-02 M15-60533
NUCLEAR MAGNETIC RESONANCE OF CUBIC FERROMAGNETIC COMPOUNDS CO2MNSN AND COMNSB 67-02 M16-59472
NUCLEAR MAGNETIC RELAXATION IN FERROMAGNETIC TRANSITION METALS 67-02 M16-59478
PRESSURE-DEPENDENCE OF THE KNIGHT SHIFT IN POLYCRYSTALLINE BETA TIN, LEAD, AND PLATINUM 67-02 M16-60535
MAGNETIC RESONANCE EXPERIMENTS ON VO2 67-04 M16-66790
IMPURITY NUCLEUS RELAXATION IN FERROMAGNETIC METALS 67-04 M16-67487
NUCLEAR RESONANCE FREQUENCY DISTRIBUTION DUE TO THE PRESENCE OF LINEAR DISLOCATIONS IN A METAL 67-04 M16-67634
VANISHING KNIGHT SHIFT IN SUPERCONDUCTING ALUMINUM 67-04 M16-67732
NUCLEAR MAGNETIC RESONANCE IN DILUTE ALLOYS OF MN, FE AND CU IN ALUMINUM 67-04 M16-68136
NUCLEAR GAMMA RESONANCE IN HIGHLY DISPERSED TIN 67-05 M16-69030
NUCLEAR MAGNETIC RESONANCE IN AN INBI INTERMETALLIC COMPOUND 67-05 M16-69106
NUCLEAR MAGNETIC RESONANCE IN DILUTE ALLOYS OF LITHIUM 67-05 M16-69107
NUCLEAR MAGNETIC RESONANCE AND SPECIFIC HEAT MEASUREMENTS OF TRANSITION METALS AND ALLOYS.. TI-V-FE AND ZR-NB-MO SYSTEMS 67-05 M16-69758
NMR OF CO IN DILUTE CO-OS ALLOY 67-05 M16-69760
INTERNAL FIELDS AT NUCLEI OF SEVERAL IMPURITIES IN FERROMAGNETIC FE, CO AND NI ALLOYS. PT. 2 67-05 M16-69765
NMR STUDY OF TWO ENERGY GAPS IN SUPERCONDUCTING COMPOUNDS 67-05 M16-69767
NUCLEAR MAGNETIC RESONANCE AND MOSSBAUER EFFECT STUDY OF SN119 IN RARE EARTH-TIN INTERMETALLIC COMPOUNDS 67-05 M16-69788
STUDY OF THE DECOMPOSITION OF SUPERSATURATED CU-ZR SOLID SOLUTION BY THE NUCLEAR MAGNETIC RESONANCE METHOD 67-06 M14-72369
NUCLEAR MAGNETIC RESONANCE IN SUPERCONDUCTING LEAD 67-06 M16-70638
EFFECTIVE MAGNETIC FIELD ON THE NB AND TA NUCLEI DISSOLVED IN IRON 67-06 M16-71916
CALORIMETRIC DETECTION OF NMR IN FERROMAGNETS 67-07 M15-72651
CU-NMR IN PARAMAGNETIC AND FERROMAGNETIC CUCR2SE4 67-07 M15-73297
THE SPECTRUM OF THE MAGNETIC AFTER-EFFECT IN NEUTRON-IRRADIATED NI SINGLE CRYSTALS 67-07 M15-73558
NUCLEAR-MAGNETIC-RESONANCE AND X-RAY STUDY OF SOLUTE LOSS BY INTERNAL OXIDATION IN COMMINUTED AND VACUUM-ANNEALED CU-MN ALLOYS 67-07 M15-73938
NMR STUDIES OF NI-PD AND NI-RU ALLOYS 67-07 M15-73992
NUCLEAR MAGNETIC RESONANCE AND SUSCEPTIBILITY MEASUREMENTS IN INTERMETALLIC COMPOUNDS 67-07 M16-73147
HYPERFINE FIELDS IN FE-SI ALLOYS 67-07 M16-73525
PALLADIUM HYPERFINE FIELD IN FERROMAGNETIC PD-FE ALLOYS 67-07 M16-73526
PULSED NMR IN FE 67-07 M16-73527
NMR AND MAGNETIC SUSCEPTIBILITY OF CO MAGNETIC IMPURITIES IN TRANSITION METAL HOSTS 67-07 M16-73528
HYPERFINE INTERACTIONS AT FE57 NUCLEI IN INTERMETALLIC COMPOUNDS OF THE FE-MN SYSTEM WITH THE BETA-MANGANESE STRUCTURE 67-07 M16-73529
STUDY OF THE DECOMPOSITION OF SUPERSATURATED SOLID SOLUTIONS BY THE NUCLEAR MAGNETIC RESONANCE METHOD 67-08 M14-74336
EFFECT OF SEGREGATION AT DISLOCATIONS ON THE SHAPE OF THE NMR LINE 67-08 M15-75245
NUCLEAR MAGNETIC RESONANCE AND MAGSUSCEPTIBILITIES OF V-NB ALLOYS 67-08 M16-74662
NUCLEAR MAGNETIC RELAXATION IN ANTIFERROMAGNETIC ALPHA-MN METAL NEAR THE NEEL TEMPERATURE 67-08 M16-75054
NONRESONANT MEASUREMENT OF T1 IN FERROMAGNETIC ALLOYS AT VERY LOW TEMPERATURES 67-08 M16-75832
ULTRASONIC RELAXATION AT THE NEEL TEMPERATURE AND NUCLEAR ACOUSTIC RESONANCE IN MNTE 67-09 M16-76373
NUCLEAR MAGNETIC RESONANCE IN LIQUID SODIUM ALLOYS 67-09 M16-76595
TEMPERATURE AND FIELD DEPENDENCES OF THE KNIGHT SHIFT IN METALS AND SEMICONDUCTORS 67-09 M16-76781
NUCLEAR MAGNETIC RESONANCE IN RARE-EARTH-ALUMINUM INTERMETALLIC COMPOUNDS.. RAL3 67-09 M16-77019
NUCLEAR QUADRUPOLE COUPLING, KNIGHT SHIFT, AND SPIN-LATTICE RELAXATION TIME IN BERYLLIUM METAL 67-09 M16-77161
THE EFFECT OF ELECTRON SCATTERING UPON THE NUCLEAR RESONANCE IN CERTAIN METALS AND DISORDERED ALLOYS 67-09 M16-77210
SPIN-LATTICE RELAXATION OF NUCLEAR SPIN ECHOES IN METALS 67-10 M16-78730
N. M. R. INVESTIGATION OF THE ATOMIC AND ELECTRONIC STRUCTURE OF VANADIUM AND NIOBIUM CARBIDES 67-10 M16-79117
OBSERVATION OF THE PR141 AND TM169 NUCLEAR MAGNETIC RESONANCES IN THE PARAMAGNETIC STATES OF RARE-EARTH INTERMETALLIC COMPOUNDS 67-11 M16-80406
NUCLEAR MAGNETIC RESONANCE STUDIES OF CUCR2SE4 AND CUCR2TE4 67-12 M16-81770
CYCLOTRON RESONANCE IN SINGLE CRYSTAL GRAPHITE AT 72 GHZ 67-12 M16-81849
NUCLEAR MAGNETIC RESONANCE AND MAGNETIC SUSCEPTIBILITY OF SMAL3 67-12 M16-81899
NUCLEAR MAGNETIC RESONANCE OF THE DEUTERON IN LANTHANUM BIDEUTERIDE 67-12 M16-82137
NUCLEAR MAGNETIC RESONANCE, ALLOYING EFFECTS
MAGNETIC RESONANCE OF MN IN PBS, PBSE, AND PBTE 67-08 M16-75928
NUCLEAR MAGNETIC RESONANCE, ANISOTROPY
ANISOTROPIC SHIFT IN THE NUCLEAR MAGNETIC RESONANCE LINE IN TELLURIUM SINGLE CRYSTALS 67-11 M16-81682
NUCLEAR MAGNETIC RESONANCE, COMPOSITION EFFECTS
NUCLEAR MAGNETIC RESONANCE IN DILUTE COPPER MANGANESE ALLOY 67-02 M16-59476
NUCLEAR MAGNETIC RESONANCE IN LIQUID GALLIUM ALLOYS 67-05 M16-69785
NUCLEAR MAGNETIC RESONANCE, IMPURITY EFFECTS
TRANSITIONAL IMPURITIES IN LIQUID COPPER 67-09 M16-77523
NUCLEAR METALLURGY
CATHODIC POLARIZATION OF METALS AND ALLOYS AND ITS APPLICATION TO THE NUCLEAR INDUSTRY 67-03 M18-65852
THE MACHINING OF NUCLEAR MATERIALS 67-04 M08-67297
A REVIEW OF PROGRESS IN BERYLLIUM TECHNOLOGY AND APPLICATIONS SINCE THE 1961 INTERNATIONAL CONFERENCE ON BERYLLIUM TECHNOLOGY HELD IN LONDON 67-04 M20-67891
PHYSICAL AND CHEMICAL CLEANNESS OF SURFACES IN NUCLEAR TECHNIQUES AND APPLICATIONS 67-10 M12-79929
NUCLEAR PARTICLES
SEE BETA RAYS
NEUTRONS
PROTONS
NUCLEAR POTENTIAL SCATTERING
SEE NUCLEAR SCATTERING
NUCLEAR POWER GENERATION
HIGHER CAPACITY OF NUCLEAR REACTORS AND DEVELOPMENT OF STEELS FOR PRESSURE VESSELS 67-02 M20-60718
NEW LIGHT METAL FABRICATING TECHNIQUES DEVELOPED WITH NUCLEAR ENGINES 67-06 M20-71586
BOILER RESEARCH AT RENFREW 67-08 M01-75704
ZR PRODUCERS RESPOND TO NUCLEAR GROWTH

67-10 M20-78472
NUCLEAR POWER PLANTS
SEE NUCLEAR POWER GENERATION
NUCLEAR POWER REACTORS
WHEN WAS THE LAST TIME YOU THOUGHT ABOUT ELECTROSLAG WELDING 67-01 M11-58016
NUCLEAR POWER REACTORS, MATERIALS
EXPANDABILITY TEST ON BERYLLIUM TUBE TO BE USED FOR FUEL CLADDING OF NUCLEAR POWER REACTORS 67-05 M17-69883
NUCLEAR POWER REACTORS, WELDING
WORLDS LARGEST NUCLEAR ENERGY PUMP CASES ARE WELDED WITH ELECTROSLAG PROCESS 67-07 M11-74279
NUCLEAR PROPERTIES
SEE SCATTERING CROSS SECTIONS
NUCLEAR PROPULSION
WELDING OF THICK SECTIONS OF HASTELLOY X FOR THE PHOEBUS-2 NOZZLE 67-07 M11-74278
NUCLEAR RADIATION
SEE BETA RAYS
GAMMA RAYS
NUCLEAR REACTIONS
SEE REACTIONS /NUCLEAR/
NUCLEAR REACTORS
SEE ALSO BOILING WATER REACTORS
BREEDER REACTORS
NUCLEAR POWER REACTORS
PRESSURIZED WATER REACTORS
INFLUENCE OF MANUFACTURING PARAMETERS ON THE QUALITY OF FUEL ELEMENTS CONTAINING PLUTONIUM 67-01 M05-58542
WELDING IN THE CONSTRUCTION OF HIGH-PRESSURE VESSELS FOR REACTORS. PT. 2. STEELS FOR REACTOR BOILERS 67-02 M11-61056
EFFECT OF SMALL ADDITIONS OF ALUMINUM ON THE MICROSTRUCTURE OF URANIUM-MOLYBDENUM ALLOYS 67-04 M13-67161
HYDROGEN ABSORPTION AND ITS DISTRIBUTION IN ZIRCONIUM ALLOYS FOR CLADDING MATERIAL OF LIGHT-WATER POWER REACTOR 67-05 M14-69882
IN-PILE CALORIMETRIC DOSIMETRY. PT. 1 67-05 M16-68648
MODERATOR MATERIALS 67-06 M01-70090
NUCLEAR POISONS 67-06 M01-70091
ELECTROSLAG WELDING HELPS ESCO FABRICATE LARGEST STAINLESS NUCLEAR PUMPS 67-06 M11-71038
FABRICATION OF NUCLEAR FUELS IN INDIA 67-06 M16-71034
THE BEHAVIOR OF 9 PER CENT NICKEL STEEL IN A REACTOR ENVIRONMENT 67-06 M17-71682
THE COMING STEELS FOR NUCLEAR PRESSURE-VESSEL SERVICE 67-06 M20-71066
DIFFUSION BRAZING IN STAINLESS STEEL FUEL ELEMENTS FOR WATER COOLED POWER REACTORS 67-07 M11-73900
THE CHEMISTRY OF HYDROGEN IN LIQUID-ALKALI-METAL MIXTURES USEFUL AS NUCLEAR REACTOR COOLANTS. PT. 1. SODIUM-POTASSIUM EUTECTIC 67-07 M14-74298
IN-REACTOR STRESS-RUPTURE PROPERTIES OF A 20CR-25NI, COLUMBIUM-STABILIZED STEEL 67-07 M17-73388
THE SIGNIFICANCE OF RECENT DEVELOPMENTS IN FRACTURE MECHANICS IN GREAT BRITAIN IN RELATION TO THE SAFETY OF REACTOR PRESSURE VESSELS 67-07 M17-73398
THE IMPORTANT MATERIALS PARAMETERS AFFECTING THE PERFORMANCE OF NUCLEAR REACTOR PRESSURE VESSELS 67-07 M17-73399
CRACK PROPAGATION TESTS ON ZIRCALOY-2 REACTOR PRESSURE TUBING IN BOTH THE NORMAL AND HYDRIDED CONDITIONS 67-07 M17-73400
ALUMINUM COATING OF URANIUM REACTOR PARTS FOR CORROSION PROTECTION 67-07 M18-74241
EXPERIMENTAL AND THEORETICAL STUDIES OF THE EXPANSION JOINTS IN THE PIPING SYSTEMS OF NUCLEAR REACTORS 67-08 M17-75301
PRESENT STATE OF THE CHEMICAL ANALYSIS OF NUCLEAR FUELS AND REACTOR MATERIALS IN JAPAN 67-08 M19-74681
REFRACTORY MATERIALS IN ATOMIC PILES 67-08 M20-75798
PREPARATION OF UO2-PUO2-ZRO2 FUELS 67-09 M09-76339
TRANSURANIC ELEMENTS AND THE HIGH-FLUX ISOTOPE REACTOR 67-09 M16-76487
REACTOR PRESSURE VESSELS--DESIGN-FABRICATION-TESTING 67-09 M20-77546
FINNED TUBES 67-09 M20-77547
STAINLESS STEEL FUEL PIN CLADDING 67-09 M20-77548
THE PROMISE OF PLUTONIUM 67-10 M01-79375
INVESTIGATION OF THE CORROSION BEHAVIOR OF SOME ALUMINUM ALLOYS IN FLOWING WATER AT 240 C 67-10 M18-78681
COLUMBIUM WC-103 --HIGH TEMPERATURE ALLOY-- 67-11 M01-81248
INVESTIGATION OF URANIUM-PLUTONIUM-TITANIUM-CARBON COMPOUNDS 67-11 M20-80150
THE PROPERTIES OF PAR-1 ALLOY FOR THE CONSTRUCTION OF THE CORE OF NUCLEAR REACTOR EWA 10 MW 67-11 M20-81516
CHEMICALLY RESISTANT STEELS AND ALLOYS. PRESENT STATE AND DEVELOPMENT 67-12 M01-83287
EXPLOSIVES BLAST METAL INTO SHAPE 67-12 M08-83480
TECHNIQUES FOR TESTING STRUCTURAL MATERIALS IN RELATION TO THEIR APPLICATION IN NUCLEAR REACTORS 67-12 M20-82813
METALS FOR THE SPACE AGE 67-12 M20-83001
THE USE OF CORROSION RESISTANT STEELS AND ALLOYS IN NUCLEAR REACTOR CONSTRUCTION 67-12 M20-83299
NUCLEAR REACTORS, CORROSION
LIQUID SODIUM TECHNOLOGY DEVELOPMENT. PT. 1. TEST LOOPS, PURIFICATION METHODS AND CORROSION TESTS 67-05 M18-68647
THE STUDY OF UNDERWATER CORROSION OF STAINLESS STEELS AND NICKEL BASE ALLOYS 67-06 M18-71502
GENERAL CORROSION OF INCONEL ALLOY 625 IN SIMULATED SUPERHEAT REACTOR ENVIRONMENT 67-08 M18-76140
INHIBITING CORROSION OF REACTOR PRESTRESSING CABLES 67-11 M18-81245
NUCLEAR REACTORS, FORGINGS
MANUFACTURE OF ASME SA 336 --CASE 1332-3-- STEEL RING FORGINGS FOR NUCLEAR REACTOR VESSELS 67-11 M20-81179
NUCLEAR REACTORS, MATERIALS
RADIATION EFFECTS IN TITANIUM CARBIDES AND CHROMIUM CARBIDES 67-02 M01-60975
FABRICATION AND MECHANICAL PROPERTIES OF SEMIFINISHED BERYLLIUM-CALCIUM PRODUCTS FOR CO2-COOLED REACTORS. PRODUCTION, TRANSFORMATION AND PROPERTIES OF EXTRUDED CAST BERYLLIUM TUBING 67-03 M17-65287
MATERIALS TECHNOLOGY PRESENTLY AVAILABLE FOR ADVANCED RANKINE SYSTEMS 67-04 M01-66385
CREEP RUPTURE PROPERTIES OF LARGE WELDED SPECIMENS 67-04 M17-67587
CORROSION OF HIGH STRENGTH STEELS IN CARBON DIOXIDE FOR GAS COOLED POWER REACTORS 67-04 M18-67593
STEELS IN NUCLEAR ENGINEERING 67-05 M17-69545
TRENDS IN ALUMINIUM FABRICATION 67-05 M20-69544
THE PROPERTIES OF ZIRCONIUM ALLOYS AS CONSTRUCTION MATERIALS IN NUCLEAR REACTORS. PT. 1 67-05 M20-69587
FEATURES AND RESULTS OF SEVERAL PROGRAMS OF RADIATION-DAMAGE SURVEILLANCE OF POWER REACTOR PRESSURE VESSELS 67-06 M17-71640
SELECTION OF MATERIALS FOR BOILERS AND NUCLEAR REACTORS 67-06 M17-72250
MATERIALS AND METALLURGY 67-07 M20-73701
ZIRCALOY-2 --NUCLEAR REACTOR ALLOY-- 67-09 M01-76530
THE FABRICATION OF CLADDING TUBES FOR NUCLEAR FUEL ELEMENTS FROM ZR ALLOYS 67-10 M01-79074
NUCLEAR REACTORS, PRESSURE VESSELS
STAINLESS LININGS BY AUTOMATIC WELDING IN NUCLEAR CONSTRUCTIONS 67-03 M11-65447
NUCLEAR REACTORS, WELDING
EXAMPLES OF WELDING TECHNOLOGY EMPLOYED IN NUCLEAR REACTOR CONSTRUCTION 67-06 M11-72037
THE FABRICATION OF REACTOR PRESSURE VESSELS AND REACTOR COMPONENTS WITH SPECIAL REGARD TO WELDING 67-07 M11-73466
WELDING NUCLEAR FUEL CASINGS 67-08 M11-75800
STUDY ON SLIGHT LEAKAGE FROM A REACTOR CONTAINMENT VESSEL. REPORT OF THE SUBCOMMITTEE ON SLIGHT LEAKAGE 67-11 M11-80497
STAINLESS STEEL OVERLAY WELDING OF LARGE REACTOR BY STRIP ELECTRODE METHOD TOGETHER WITH OTHER WELDING METHODS 67-11 M11-81184
MATERIAL AND WELDING PROBLEMS IN REACTOR CONSTRUCTION WITH EMPHASIS ON ELECTRON-BEAM

NUCLEAR REACTORS
WELDING 67-12 M11-83147
NUCLEAR RESONANCE
RELAXATION PHENOMENA IN MOSSBAUER SPECTRA OF 170YB IN INTERMETALLIC COMPOUNDS OF YTTERBIUM 67-04 M16-66182
NUCLEAR RESONANCE 67-04 M17-66177
SEARCH FOR CONDUCTION ELECTRON POLARIZATION IN AN
SEARCH FOR CONDUCTION ELECTRON POLARIZATION IN AN
SEARCH FOR CONDUCTION ELECTRON POLARIZATION IN AN IRON-BASED INTERSTITIAL COMPOUND
IRON-BASED INTERSTITIAL COMPOUND
IRON-BASED INTERSTITIAL COMPOUND 67-04 M17-66177
NUCLEAR SCATTERING
SMALL-ANGLE CRITICAL MAGNETIC SCATTERING OF NEUTRONS IN IRON 67-04 M16-67792
SINGLE CRYSTAL MEASUREMENT OF THE ATOMIC SCATTERING FACTOR OF ALUMINIUM 67-06 M16-71278
THE PHONON FREQUENCY DISTRIBUTION OF VANADIUM 67-07 M16-74057
NUCLEATION
SOLIDIFICATION OF CAST METAL 67-01 M14-58354
ON THE GRAPHITIZATION OF IRON ALLOYS 67-02 M10-60074
GOLD IN GLASS 67-02 M14-58917
NUCLEATION PROCESSES IN DEPOSITION ONTO SUBSTRATES 67-02 M14-59102
NUCLEATION SITES OF THE ALPHA PHASE GAS IN THE PHASE DURING CEMENTATION OF IRON BY CHROMIUM 67-02 M14-60554
THE CRYSTALLOGRAPHIC ANALYSIS OF GRAIN-BOUNDARY PRECIPITATION 67-02 M14-60631
CONTRIBUTION TO THE STUDY OF SOLIDIFICATION OF NUCLEI 67-02 M14-60751
NUCLEATION OF EPITAXIAL SIC ON SI SURFACES 67-02 M14-61081
NATURE OF THE CRITICAL NUCLEUS IN HETEROGENEOUS VAPOR-SOLID NUCLEATION 67-02 M14-61575
THE INFLUENCE OF LOW-FREQUENCY VIBRATION ON THE NUCLEATION OF SOLIDIFYING METALS 67-02 M14-61840
ON THE INTERPRETATION OF ANNEALING TEXTURES OF WIRES OF FCC METALS AND ALLOYS 67-02 M14-61897
THE PART PLAYED BY NUCLEATION IN REACTIONS BETWEEN GASES AND METALS 67-02 M14-62007
THE EFFECTS OF THE CONDITIONS OF ELECTROLYSIS ON THE FORMATION OF ELECTRODEPOSITED NUCLEI 67-02 M18-60279
THE ROLE OF ADSORPTION IN HETEROGENEOUS VAPOR-SOLID NUCLEATION 67-03 M14-65391
THE ROLE OF DISLOCATIONS IN RECRYSTALLIZATION 67-03 M14-65555
STUDY OF PURE ALUMINUM SINGLE AND BICRYSTALS RECRYSTALLIZATION 67-03 M14-65559
NUCLEATION AND GROWTH OF VOIDS IN QUENCHED ALUMINUM 67-03 M14-65639
NUCLEATION, GROWTH, AND FLOTATION OF OXIDE INCLUSIONS IN LIQUID STEEL 67-04 M04-66732
DEOXIDATION OF STEEL--WHAT HAPPENS FROM TAP TO SOLIDIFICATION 67-04 M04-68047
DILATOMETRIC AND RESISTOMETRIC STUDIES OF WHITE CAST IRON AT SUBCRITICAL TEMPERATURES 67-04 M06-66948
NUCLEATION IN SURFACE CATALYZED CHEMICAL VAPOR DEPOSITION --CVD-- 67-04 M12-67744
THE NUCLEATION OF MECHANICAL TWINS IN POLYCRYSTALLINE 3 PER CENT SILICON-IRON 67-04 M13-66072
DEVELOPMENT AND EVALUATION OF THE SYSTEM U-NB-SI AS A DISPERSED PHASE ALLOY 67-04 M14-66133
CONDITIONS CONTROLLING MATRIX AND STACKING FAULT PRECIPITATION 67-04 M14-66548
A QUANTITATIVE APPROACH TO CASTING SOLIDIFICATION--FREEZING OF CAST IRON 67-04 M14-66940
IN-SITU TRANSFORMATION OF FE3C TO MO2C IN IRON-MOLYBDENUM-CARBON ALLOYS 67-04 M14-67022
NUCLEATION PROCESSES ON THE EDGE OF THIN PERMALLOY FILMS 67-04 M15-67636
EFFECT OF COLD REDUCTION ON PRECIPITATION AND EMBRITTLEMENT OF A COBALT-BASE ALLOY --L-605-- 67-04 M17-66189
HETEROGENEOUS NUCLEATION OF NODULAR CAST IRON 67-05 M06-68456
NUCLEATION OF GRAIN-BOUNDARY CAVITIES DURING HIGH-TEMPERATURE CREEP 67-05 M13-68689
AMORPHOUS NUCLEATION IN METALS 67-05 M14-68413
FORMATION OF RECRYSTALLIZATION NUCLEI IN TRANSFORMER STEEL 67-05 M14-68853
DIRECT OBSERVATION OF CHANGE FROM THETA-PRIME TO THETA PHASE IN PRECIPITATION OF AN AL-CU ALLOY 67-05 M14-68872
ORIGIN AND NATURE OF MICROSTRUCTURES 67-05 M14-68991
NUCLEATION OF SOLIDS FROM THE VAPOUR PHASE 67-05 M14-69720
NUCLEATION OF METALLIC SOLIDS FROM THE LIQUID PHASE 67-05 M14-69722
NUCLEATION IN METAL OXIDATIONS AND RELATED REACTIONS 67-05 M14-69723
NUCLEATION FROM SUPERSATURATED SOLID SOLUTIONS 67-05 M14-69724
NUCLEATION DURING RECRYSTALLIZATION 67-05 M14-69726
THEORY OF NUCLEATION 67-05 M14-69729
NUCLEATION OF DEFECTS IN METALS 67-05 M14-69730
HETEROGENEOUS NUCLEATION OF VOIDS IN QUENCHED ALUMINUM 67-05 M14-69759
NUCLEATION OF THE SUPERCONDUCTING PHASE 67-05 M16-69721
NUCLEATION OF DEFORMATION TWINS IN ZINC BICRYSTALS 67-05 M17-68294
THE BEHAVIOR OF NUCLEATION OF TIN ELECTRODEPOSITS ON COLD ROLLED STEEL SHEETS 67-06 M12-70781
NUCLEATION OF AUSTENITE ON HEATING MALLEABLE CAST IRON 67-06 M14-70360
A THEORY OF ORIENTATION EFFECTS IN NUCLEATION ON A CRYSTALLINE SUBSTRATE 67-06 M14-70897
INVESTIGATION BY MEANS OF THE ELECTRON MICROSCOPE OF PRECIPITATION IN AL-CU SOLID SOLUTIONS. PT. 3. THE DIAGRAM FOR THE FORMATION OF NUCLEI IN AL-CU ALLOYS 67-06 M14-71835
CRYSTALLOGRAPHIC COMPLEXITIES IN THE AL-CU SYSTEM 67-06 M14-72232
REPLY TO CRYSTALLOGRAPHIC COMPLEXITIES IN THE AL-CU SYSTEM 67-06 M14-72233
REPLY TO COMMENTS ON CRYSTALLOGRAPHIC COMPLEXITIES IN THE AL-CU SYSTEM 67-06 M14-72234
THE NUCLEATION AND GROWTH OF CLEAVAGE MICROCRACKS IN MILD STEEL 67-06 M17-70622
INFLUENCE OF INOCULATION ON CAST STRUCTURE OF LEDEBURITE ALLOY STEELS 67-07 M04-73121
STRUCTURE AND CONSTITUTION OF THE TIN-PLATE ALLOY LAYER 67-07 M12-73326
ON CRYSTAL GROWTH DISTANT FROM PHASE EQUILIBRIUM CONDITIONS 67-07 M13-73855
NUCLEATION AND GROWTH OF GRAPHITE IN MALLEABLE CAST IRON 67-07 M14-73253
NUCLEATION AND GROWTH OF REVERSE DOMAINS 67-07 M15-73556
THE MECHANISM OF FORMATION OF OXIDE INCLUSIONS AT THE ADDITION OF DEOXIDIZER 67-08 M04-75769
THE CUBE TEXTURE IN AL AND ITS ROLE IN THE CONTROL OF EARING 67-08 M14-74516
SUBGRAIN FORMATION IN FE-C-SI ALLOYS DUE TO CONSTITUTIONAL UNDERCOOLING 67-08 M14-75036
THE FORMATION OF SECONDARY RECRYSTALLIZATION NUCLEI IN TRANSFORMER STEEL 67-08 M14-75268
NUCLEATION OF OXIDE PARTICLES DURING SOLIDIFICATION 67-08 M14-75315
ORIENTED NUCLEATION IN THE FORMATION OF ANNEALING TEXTURES IN IRON 67-08 M14-75582
CRACK NUCLEATION IN CRYSTALLINE SOLIDS 67-08 M14-75584
CORROSIN TUNNELS IN STAINLESS STEELS 67-08 M18-76188
SPONTANEOUSLY AND ARTIFICIALLY RECRYSTALLIZED TEXTURES IN ROLLED 3 PER CENT SILICON-IRON SINGLE CRYSTALS 67-09 M13-77716
A PREMELTING PHENOMENON IN NA-K ALLOYS 67-09 M14-76591
DECARBURIZATION AND DEOXIDATION PROCESSES IN LIQUID IRON 67-09 M14-77081
TWINNING IN ZINC BY INDENTATION 67-11 M13-80128
MULTIPLICATION OF DISLOCATIONS IN ANTIMONY AND BISMUTH 67-11 M13-80733
OXYGEN FACETING OF RHODIUM --210-- AND --100-- SURFACES 67-11 M13-81592
ELECTRON MICROSCOPIC ANALYSIS OF NUCLEATION IN MERCURY 67-11 M14-80228
NUCLEATION AND GROWTH OF THE OXIDE FORMED BY GRADED OXIDATION OF ALUMINIUM 67-11 M14-80352
ELECTRON MICROSCOPIC STUDY OF POLYGONIZATION AND PRIMARY RECRYSTALLIZATION IN COLD ROLLED TRANSFORMER STEEL 67-11 M14-80727

A TRANSMISSION ELECTRON MICROSCOPIC STUDY OF THE EARLY STAGE OF RECRYSTALLIZATION IN PURE IRON 67-11 M14-81061
CRYSTAL GROWTH AND DEFECT STRUCTURE OF ZINC SULFIDE AND ZINC SELENIDE PLATELETS 67-11 M14-81094
MORPHOLOGY OF CELLULAR PRECIPITATION OF TIN FROM LEAD-TIN BICRYSTALS. PT. 2 67-11 M14-81265
ELECTROMIGRATION EFFECTS IN ALUMINUM FILM ON SILICON SUBSTRATES 67-11 M16-81203
THE CRYSTALLOGRAPHY OF THE REVERSE MARTENSITIC TRANSFORMATION IN AN IRON-NICKEL ALLOY 67-12 M13-82761
A STUDY OF THE ENERGY DISTRIBUTION AND NUCLEATION OF EVAPORATED GOLD USING A VELOCITY SELECTOR 67-12 M14-82136
RECOVERY AND RECRYSTALLIZATION BY JOINT MIGRATION OR NUCLEATION IN ELECTROLYTIC IRON, AS STUDIED BY INTERRUPTED COMPRESSION TESTS 67-12 M14-82508
OBSERVATIONS OF MARTENSITE IN TERNARY CU-ZN BASED BETA-PHASE ALLOYS 67-12 M14-82980
HETEROGENEOUS NUCLEATION OF BI AND AG ON AMORPHOUS SUBSTRATES --IN SITU ELECTRON MICROSCOPY STUDIES-- 67-12 M14-83261
APPLICATION OF THE GRAIN GROWTH THEORY TO THE FORMATION OF NICKEL TRICHITES 67-12 M14-83500
FATIGUE CRACK NUCLEATION IN A HIGH-STRENGTH LOW-ALLOY STEEL 67-12 M17-82727

NUCLEATION, ALLOYING EFFECTS
RECRYSTALLIZERS IN NONFERROUS METALLIC MELTS 67-05 M14-68516
THE EFFECT OF THE FOUR MOST IMPORTANT ALLOYING ELEMENTS OF CAST IRON 67-11 M14-81384

NUCLEATION, COOLING EFFECTS
HETEROGENEOUS NUCLEATION OF UNDERCOOLED SILVER 67-11 M14-81351
THE MECHANISMS OF CRYSTAL MULTIPLICATION DURING SOLIDIFICATION IN THE PRESENCE OF FLUID MOTION 67-12 M14-82569

NUCLEATION, IMPURITY EFFECTS
IMPURITY EFFECTS ON HETEROGENEOUS NUCLEATION FROM THE VAPOR.. SELENIUM ON GLASS 67-06 M14-70974

NUCLEATION, RADIATION EFFECTS
DEUTERON-IRRADIATION EFFECTS IN AL-4 WT. PER CENT CU 67-06 M14-70438

NUCLEATION, STRESS EFFECTS
REMARKS ON THE NUCLEATION OF MECHANICAL TWINS 67-06 M17-72242

NUCLEI
EFFECT OF SEGREGATION AT DISLOCATIONS ON THE SHAPE OF THE NMR LINE 67-08 M15-75245

NUCLEI /TRANSFORMATION/
SEE NUCLEATION

NUCLEONICS
SEE NUCLEAR ENGINEERING

NUCLEONS
SEE NEUTRONS
PROTONS

NUCLEUS
SEE NUCLEI

NUMERICAL ANALYSIS
THE CHARACTERIZATION OF STRUCTURES BY HETEROGENEITY OR HOMOGENEITY 67-04 M13-66907

NUMERICALLY CONTROLLED MACHINES
HIGH-SPEED MACHINING CENTER HANDLES KING-SIZE PARTS 67-01 M08-57436
CONTOURING ON POINT-TO-POINT NC 67-01 M08-58553
INNOVATIONS IN N/C MACHINING PRODUCE BETTER PARTS AT LESS COST 67-03 M08-65363
CAMSHAFT GRINDING BY NC 67-03 M08-65565
HOW RELIABLE IS MACHINABILITY DATA 67-03 M08-65566
AUTO DIES BY COMPUTER 67-03 M08-65943
NUMERICALLY-CONTROLLED PLANING 67-04 M08-66106
HONEYCOMB AND PLASTIC--NEW TREND IN MASTER MODELS 67-05 M08-68660
N/C ROUTER ROUTS SHOP HEADACHES 67-05 M08-68769
NC MACHINING OF TITANIUM 67-05 M08-69502
BOEING READIES GIANT NC SPOT WELDER FOR ADVANCED AIRCRAFT PRODUCTION 67-05 M11-68431
NC PROFILING MADE FAIL-SAFE 67-05 M20-68436
SYSTEMATIC APPROACHES TO MACHINING DATA FOR AEROSPACE ALLOYS 67-06 M08-71482
NC SPOTWELDING TO RIGID SPECS 67-06 M11-71931
NEW TECHNIQUES FOR PRECISION DIE CASTING 67-07 M06-72800
EFFECTIVE UTILIZATION OF POINT-TO-POINT NUMERICAL CONTROL 67-07 M08-72985
SIMPLE DIAL-IN CHUCKING MACHINE COMBINES VERSATILITY AND SPEED 67-07 M08-74294
AUTOMATIC ROLL GRINDERS FOR FLAT PRODUCTS MILLS 67-10 M08-78620
N. C. AND CONVENTIONAL MACHINING OF AUTOMATIC TRANSMISSION COMPONENTS 67-10 M08-79704
PIGME, A NEW AUTOMATIC INERT ARC WELDING PROCESS 67-10 M11-79194
EDM PLUS NC--FORDS WINNING COMBINATION FOR DIE MACHINING 67-11 M08-80677
WAYS TO INCREASE YOUR EDM PRODUCTIVITY 67-12 M08-82909
A UNIVERSAL MACHINE FOR TREATING SURFACES BY SHOT-PEENING 67-12 M12-82082

NUMERICALLY CONTROLLED MACHINES, WELDING
WELDING SKATE WITH COMPUTERIZED TORCH ANGLE AND WELDING SPEED CONTROL 67-01 M11-58773

NUTS /FASTENERS/, COATING
COATING OF BOLTS TO PREVENT SEIZURE 67-03 M18-65986

NUTS /FASTENERS/, MECHANICAL PROPERTIES
PERFORMANCE OF NUTS ON HIGH STRENGTH BOLTS 67-08 M17-74795

NUTS /FASTENERS/, SPECIFICATIONS
COMMERCIAL SPECIFICATIONS FOR BOLTS, NUTS AND SIMILAR PARTS 67-09 M19-77829

NUTS /FASTENERS/, STANDARDS
THE STANDARDIZATION OF CORROSION-PROTECTED FASTENERS 67-07 M18-74254

NUTS /FASTENERS/, SURFACE FINISHING
VIBRATION AND TUMBLING--A NEW DIMENSION IN FINISHING 67-03 M12-65664

NYLON
SEE POLYAMIDE RESINS

O RING SEALS
METAL CLAD ELASTOMERIC CORE SEALS FOR LIQUID ROCKET PROPELLANTS 67-01 M12-58523
O-RING TYPES 67-06 M20-72015

OIL
SEE OILS

OIL BURNERS
HEAT RESISTING PROPERTIES OF THIN IRON CASTINGS 67-04 M18-67113
DEVELOPMENT AND TESTING OF AN OIL-OXYGEN BURNERS IN OPENHEARTH FURNACES 67-07 M04-74105

OIL FIRED FURNACES
PROBLEMS IN OIL-FIRED OPENHEARTH FURNACES 67-02 M04-59871
SUPPLEMENTARY OIL-FIRING OF A COLD-BLAST CUPOLA 67-08 M04-74800
RECENT HEAT TREATMENT FURNACE INSTALLATIONS. ANNUAL SURVEY OF DEVELOPMENTS 67-10 M10-78560

OIL FIRED FURNACES, DESIGN
EXPERIENCES WITH OIL-FIRED BELL-TYPE ANNEALING FURNACES 67-07 M10-72564

OIL QUENCHING
TECHNOLOGICAL FACTORS, DETERMINING THE SELECTION OF STEELS FOR FULL HARDENED RAILS 67-04 M10-66627
PRACTICAL ISSUES IN HEAT TREATMENT OF LARGE FORGINGS 67-07 M10-74169

OIL REFINING
SEE PETROLEUM REFINING

OIL TANKERS
SEE TANKERS /WATERBORNE/

OILING /LUBRICATION/
SEE LUBRICATION

OILS
SEE ALSO FUEL OIL
LUBRICATING OILS
MACHINING OPERATIONS FACILITATED WITH ROCOL SOLUBLE OIL 67-06 M08-70708

OILS, COATINGS
TEMPORARY CORROSION PREVENTIVES 67-05 M18-68416

ON STEELS, MAGNETIC PROPERTIES
DOMAIN CONFIGURATION AND LOSSES IN CUBE-TEXTURED SILICON IRON 67-07 M15-73521
STRUCTURES AND MAGNETIC PROPERTIES OF GRAIN-ORIENTED 3.2 PER CENT SILICON-IRON 67-07 M15-73522

OPACITY
OPTICAL DENSITY AND THICKNESS OF GRAPHITE LAMELLAE

67-02 M15-61076
OPTICAL DENSITIES OF STATES OF NICKEL, COBALT, AND PALLADIUM 67-02 M16-61595
EXPERIMENTAL DETERMINATION OF THE OPTICAL DENSITY OF STATES IN IRON 67-09 M16-77689

OPAQUENESS
SEE OPACITY

OPEN COIL ANNEALING
OPEN-COIL ANNEALING 67-04 M10-66727
OPEN-COIL ANNEALING AT EBBW VALE 67-04 M10-67906
FIRST OPEN COIL ANNEALING PLANT FOR U. K. 67-05 M10-69595
OPEN COIL ANNEALING AT EBBW VALE 67-06 M10-70559
OPEN-COIL ANNEALING AT EBBW VALE 67-06 M10-71808
A NEW APPROACH TO BATCH ANNEALING 67-07 M10-72928
SHOP RESULTS OF DIRECT FIRED COIL ANNEALING SHOW PROMISE 67-07 M10-74006

OPEN COIL ANNEALING, CONTROLLED ATMOSPHERES
OPEN-COIL ANNEALING 67-09 M10-77840

OPEN DIE FORGING
EFFECTS OF STRETCHING AND UPSETTING ON THE MECHANICAL PROPERTIES OF OPEN-DIE FORGINGS 67-02 M07-62098
A SURVEY OF DEVELOPMENTS IN OPEN DIE FORGING 67-03 M07-65307
FORGING 67-08 M07-74842
THE EFFECT OF ALPHA PLUS BETA AND BETA FORGING ON THE FRACTURE TOUGHNESS OF SEVERAL HIGH-STRENGTH TITANIUM ALLOYS 67-12 M17-81930

OPEN DIE FORGING, AUTOMATION
ELECTRONICALLY CONTROLLED FORGING PRESS 67-10 M07-80091

OPEN DIE FORMING
HOT BRASS PRESSING 67-04 M08-66713

OPEN FLAME FURNACES
SEE OPENHEARTH FURNACES
REVERBERATORY FURNACES
TILTING OPENHEARTH FURNACES

OPENHEARTH FURNACES
SEE ALSO TILTING OPENHEARTH FURNACES
SELECTING OPTIMUM SIZES OF POOL IN DESIGNING AND RECONSTRUCTING OPENHEARTH FURNACES. PT. 1 67-01 M04-57194
USE OF OXYGEN FOR BLOWING OF THE BATH IN 600-TON OPENHEARTH FURNACES 67-01 M04-58094
SELECTING OPTIMUM BATH DIMENSIONS IN DESIGNING AND RECONSTRUCTING OPENHEARTH FURNACES 67-02 M04-61758
ROOF-BURNER OPERATION ON COLD-CHARGE OPEN HEARTH PRACTICE 67-03 M04-65513
PROGRESS OF GAS-OXYGEN ROOF BURNERS AT KEYSTONE STEEL AND WIRE COMPANY 67-03 M04-65514
GUNNING OPEN HEARTH FURNACES 67-03 M04-65520
GUNNING OPEN HEARTH FURNACES 67-03 M04-65521
HEARTH MAINTENANCE AND REFRACTORY USAGE WITH HIGH OXYGEN PRACTICE IN THE OPEN HEARTH 67-03 M04-65532
HEARTH MAINTENANCE AND REFRACTORY USAGE WITH HIGH OXYGEN PRACTICE AT FORD MOTOR COMPANY 67-03 M04-65533
FEATURES OF LARGE OPENHEARTH FURNACES USING OXYGEN 67-04 M04-66949
MAKING LOW-CARBON STEEL BY BLOWING THE BATH WITH AN OXYGEN-HYDROGEN MIXTURE IN A LARGE OPENHEARTH FURNACE 67-04 M04-67871
PERFORMANCE OF OPENHEARTH FURNACES WITH SINGLE-CHANNEL PORTS 67-04 M04-68197
IMPROVING THE CONSTRUCTION AND OPERATION OF AN OPENHEARTH FURNACE WITHOUT A FRONT WALL 67-05 M04-68320
REGULATING THE EXCESS AIR IN OPENHEARTH FURNACES OF VARIOUS CAPACITY 67-06 M04-71245
IMPROVING THE DESIGN AND RUNNING OF OPENHEARTH FURNACES WITH NO FRONT WALL 67-07 M04-72848
IMPORTANCE OF THE BASIC OXYGEN LD PROCESS FOR STEEL FOUNDRIES. PT. 1 67-07 M04-73248
GEOMETRICAL DIMENSIONS OF THE FURNACE BATHS IN OPEN-HEARTH FURNACES NOW IN USE 67-07 M04-74068
DEVELOPMENT AND TESTING OF AN OIL-OXYGEN BURNERS IN OPENHEARTH FURNACES 67-07 M04-74105
EFFECTIVENESS OF VARIOUS METHODS OF LINING LAUNDERS 67-07 M04-74135
ON THE OPTIMUM FREQUENCY OF REVERSING THE CONE OF AN OPENHEARTH FURNACE 67-08 M04-74594
REGULATING EXCESS OF AIR IN OPENHEARTH FURNACES WITH DIFFERENT CAPACITIES 67-08 M04-75714
CONVERTING OPENHEARTH FURNACES AT CHELYABINSK TUBE ROLLING-MILLS TO RUN ON NATURAL GAS 67-08 M04-75715
TESTING DYNAS BRICK WITH A TITANIUM-CLAY ADDITIVE IN THE BOTTOM STRUCTURE OF AN OPENHEARTH FURNACE 67-08 M05-75596
TAPPING DEVICES FOR OPENHEARTH FURNACES 67-09 M04-77499
DEVELOPMENT OF BONDED BASIC ROOFS FOR OPEN-HEARTH FURNACES 67-09 M04-77718
EVALUATION OF OPEN-HEARTH ROOF BRICK 67-09 M04-77965
BEHAVIOR OF HIGH-FIRED BASIC BRICK IN SPRUNG ARCHES 67-09 M05-76455
EXPERIENCE WITH THREE BASIC ROOF O. H. INSTALLATIONS AT THE DURGAPUR STEEL PLANT 67-10 M04-78748
SMELTING BEARING STEEL IN AN ACID OPENHEARTH FURNACE 67-10 M04-79850
THE EVALUATION OF ROOF BRICKS FOR OPENHEARTH FURNACES 67-12 M04-83007
EXPERIENCE WITH THREE BASIC ROOF OPENHEARTH INSTALLATIONS AT THE DURGAPUR STEEL PLANT 67-12 M04-83117

OPENHEARTH FURNACES, CAPACITY
GEOMETRIC DIMENSIONS OF THE STEEL MELTING POOLS OF OPENHEARTH FURNACES DURING OPERATION 67-05 M04-69682

OPENHEARTH FURNACES, CHARGING
A MASS CHARGING MACHINE FOR OPENHEARTH FURNACES 67-07 M04-74171

OPENHEARTH FURNACES, DESIGN
PRODUCING STEEL IN A TWO-POOL FURNACE 67-01 M04-57252
OPERATION OF OPENHEARTH FURNACES WITH SINGLE-CHANNEL PORTS 67-02 M04-62155
IMPROVING THE DESIGN OF OPEN-HEARTH FURNACES AND NEW TYPES OF STEELMELTING PLANT 67-04 M04-66206
IMPROVING OPEN-HEARTH FURNACE DESIGN 67-04 M04-66207
PROGRESS IN FULFILLING RECOMMENDATIONS OF THE ALL-UNION CONFERENCE OF STEELMAKERS 67-04 M04-66208
IMPROVING THE CONSTRUCTION OF OPENHEARTH FURNACES 67-09 M04-77625
DISCUSSION ON IMPROVING THE DESIGN OF OPEN-HEARTH FURNACES 67-11 M04-80913
OPENHEARTH SHUTTER DESIGN 67-11 M04-81315

OPENHEARTH FURNACES, FIRING
CONVERSION OF OPENHEARTH FURNACES IN A TUBE ROLLING WORKS TO NATURAL GAS 67-06 M04-71246
USE OF BLENDS OF OIL AND PITCH TO IMPROVE OPENHEARTH FURNACE PERFORMANCE 67-08 M04-76201

OPENHEARTH FURNACES, FUELS
USE OF LIQUID FUEL FOR OPENHEARTH FURNACES 67-01 M04-58161
EFFECTIVENESS OF USING NATURAL GAS IN THREE-UPTAKE OPEN-HEARTH FURNACES FROM THE THERMAL ENGINEERING POINT OF VIEW 67-07 M04-74133

OPENHEARTH FURNACES, LINERS
CONTROL OF HEARTH REFRACTORY DECOMPOSITION IN IDLE BASIC OPEN HEARTH FURNACES 67-03 M04-65515

OPENHEARTH FURNACES, MAINTENANCE
METHOD FOR MAKING THE HEARTH OPERATING LAYER 67-02 M04-60092
GUNNITING THE BACKWALLS OF OPENHEARTH FURNACES AT THE ZAPOROZHSTAL WORKS 67-05 M04-68547
EFFECT OF PHASE COMPOSITION OF HEARTHS ON THEIR DURABILITY 67-05 M04-68549
BACK WALLS OF OPEN-HEARTH FURNACES GUNNITED AT ZAPOROZHSTAL WORKS 67-07 M04-72458
THE EFFECT OF PHASE COMPOSITION OF HEARTHS ON HEARTH LIFE 67-07 M04-72460

OPENHEARTH FURNACES, PRESSURE MEASUREMENT
CHECKING GAS PRESSURE LOSSES IN THE CONTEMPORARY OPENHEARTH 67-06 M04-71876

OPENHEARTH FURNACES, REFRACTORIES
SUITABLE GRAIN COMPOSITION OF MAGNESITE POWDER FOR HEARTHS OF OPENHEARTH FURNACES OPERATING BY COMBINATION PROCESSES 67-07 M05-72610

OPENHEARTH FURNACES, SERVICE TIME
DIRECT BONDED BRICK IN OPEN HEARTH FURNACES 67-11 M04-80110

OPENHEARTH FURNACES, TEMPERATURE CONTROL
OPTICAL ROOF TEMPERATURE MEASUREMENTS IN OPENHEARTH

FURNACES--ERRORS AND THEIR ELIMINATION
67-09 M19-76507

OPENHEARTH FURNACES, THERMAL PROPERTIES
RESISTANCE OF REFRACTORIES IN HEAVY-AND MEDIUM-DUTY FURNACES WITH COMBINED USE OF OXYGEN
67-08 M05-74888

OPENHEARTH PROCESS
SEE ALSO ACID OPENHEARTH PROCESS
BASIC OPENHEARTH PROCESS
DUPLEX OPENHEARTH PROCESS
IMPROVEMENT IN THE PREPARATION OF THE CHARGE OF OPENHEARTH MELTS DURING CONVERSION OF PHOSPHOROUS CAST IRON 67-01 M04-57133
ON IRON OXIDES IN BASIC OPENHEARTH FURNACE SLAGS DURING THE OXIDATION AND ALLOYING OF LOW-CARBON STEEL 67-01 M04-57175
SCHEMATIC OF A COMPUTER APPARATUS FOR DETERMINING CARBON CONTENT IN OPENHEARTH POOL
67-01 M04-57195
PRODUCING STEEL IN A TWO-POOL FURNACE
67-01 M04-57252
PERFORMANCE OF A 600-TON OPENHEARTH FURNACE WITH OXYGEN BLOWING OF THE BATH 67-01 M04-58156
SLAG CONDITIONS DURING THE UPGRADING PERIOD IN A 600 TON OPENHEARTH FURNACE 67-02 M04-59510
USE OF MIXTURES TO PROMOTE BOILING IN CASTING
67-02 M04-59534
IMPROVED QUALITY SMALL-GAGE STEEL
67-02 M04-59536
USE OF MANGANESE ORE IN OPENHEARTH FURNACES
67-02 M04-59572
IMPROVED COMBUSTION IN OPENHEARTH FURNACES
67-02 M04-59847
IMPROVEMENT OF OPENHEARTH MELTING WITH NATURAL GAS AND OXYGEN 67-02 M04-59848
METHODS FOR REDUCING CARBON-FREE FERROCHROME CONSUMPTION IN MELTING STAINLESS STEELS WITH OXYGEN 67-02 M04-59860
PROBLEMS IN OIL-FIRED OPENHEARTH FURNACES
67-02 M04-59871
RELATION BETWEEN MOLTEN STEEL COMPOSITION AND INCLUSION COMPOSITION 67-02 M04-60036
SAND SEAM OF LOW-CARBON KILLED STEEL FOR TUBE
67-02 M04-60038
OXIDATION OF PHOSPHORUS AND CARBON DURING OPENHEARTH CONVERSION OF PHOSPHORITIC IRONS
67-02 M04-60060
STUDYING THE SIZE OF THE METAL-SLAG SEAPRATION ZONE IN AN OPENHEARTH FURNACE WITH RADIOSOTOPES
67-02 M04-60061
STUDYING ROOF OXYGEN LANCES FOR CO OXIDATION ON AN AIR MODEL 67-02 M04-60079
METHOD FOR MELTING TECHNICALLY PURE IRON
67-02 M04-60097
STUDY OF OPENHEARTH FURNACE REGENERATORS BY ELECTRICAL SIMULATION 67-02 M04-60653
CHANGES IN OXYGEN CONCENTRATION AND EQUILIBRIUM OXYGEN CONCENTRATION DURING DEOXIDIATION, TEEMING AND SOLIDIFICATION OF STEEL 67-02 M04-60725
PREDICTING CARBON OXIDATION RATE IN THE CHARGE MELTING PERIOD IN A BASIC OPENHEARTH FURNACE
67-02 M04-61208
BLOWING OPENHEARTH FURNACE BATHS WITH LOW-CONCENTRATION OXYGEN 67-02 M04-61955
EXPERIENCE WITH CLASSIFIED POWDERED LIME IN BASIC OPENHEARTHS 67-02 M04-62097
RIMMING INTENSITY OF OPENHEARTH POOL IN RELATION TO STATE OF HEARTH BOTTOM SURFACE AFTER COMPLETE MELTING OF CHARGE 67-02 M04-62262
MODELING THE MOVEMENT OF NONISOTHERMAL CURRENTS AS APPLIED TO THE THREE-CHANNEL PORT OF AN OPENHEARTH FURNACE 67-02 M04-62278
EFFECT OF OXYGEN LANCES ON THERMOCHEMISTRY OF OPEN HEARTH PROCESS 67-03 M04-65501
EFFECT OF IMPROVED RAW MATERIALS ON OPEN HEARTH OPERATIONS 67-03 M04-65502
PROPERTIES AND EFFECTS OF VARIOUS COMMERCIAL SCRAP GRADES 67-03 M04-65504
STATISTICAL ANALYSIS OF OPERATING DATA FROM NO. 2 OPEN HEARTH SHOP, MIDDLETOWN WORKS, ARMCO STEEL CORPORATION 67-03 M04-65506
THE CHANGING OPEN HEARTH 67-03 M04-65507
ACID OPEN HEARTH RESEARCH OVER THE PAST TWENTY YEARS 67-03 M04-65512
ROOF-BURNER OPERATION ON COLD-CHARGE OPEN HEARTH PRACTICE 67-03 M04-65513
USE OF OXYGEN IN THE STEELMAKING PROCESS
67-03 M04-65524
SERVICE CONDITIONS IN AN OPEN HEARTH FURNACE ABOVE FLOOR LEVEL 67-03 M04-65526
DEVELOPMENT AND APPLICATION OF RAPID CARBON DETERMINATION FOR OPEN HEARTH CONTROL
67-03 M04-65529
REFRACTORY EXPERIENCE IN OPEN HEARTH STEELMAKING IN AUSTRALIA 67-03 M04-65534
EFFECT OF STEELMAKING VARIABLES ON THE ALUMINUM ANALYSIS OF DEEP DRAWING ALUMINUM KILLED STEELS
67-03 M04-65538
USE OF MOLD ADDITIONS FOR THE CONTROL OF DEEP-DRAWING ALUMINUM KILLED STEEL
67-03 M04-65539
EFFECT OF SCRAP DENSITY ON SLAG CONDITIONS DURING THE MELTING PERIOD 67-04 M04-66078
KINETICS OF MELTING OF STEEL SCRAP IN LARGE OPEN-HEARTH FURNACES 67-04 M04-66205
WORK OF AN OPENHEARTH FURNACE WITH INTENSIFIED OXYGEN FEED TO THE FLAME 67-04 M04-66845
OXYGEN STEELMAKING OF KILLED AND RIMMING STEELS IN A LARGE OPENHEARTH FURNACE 67-04 M04-66846
EVOLVING A NEW TECHNOLOGY FOR STEELMAKING IN OPENHEARTHS 67-04 M04-66849
OXYGEN BATH BLOWING USING TUYERES OF DIFFERENT DESIGN 67-04 M04-67238
LANCING OPEN-HEARTH FURNACE BATHS WITH LOW CONCENTPATION OXYGEN 67-04 M04-67773
OPENHEARTH OPERATION WHEN BLOWN WITH OXYGEN-HYDROGEN MIX 67-04 M04-67866
MAKING LOW-CARBON STEEL BY BLOWING THE BATH WITH AN OXYGEN-HYDROGEN MIXTURE IN A LARGE OPENHEARTH FURNACE 67-04 M04-67871
EFFECT OF SCRAP QUALITY AND CHARGING CONDITIONS ON THE PERFORMANCE AND COSTS OF AN OPENHEARTH FURNACE 67-04 M04-68006
IMPROVING THE CONSTRUCTION AND OPERATION OF AN OPENHEARTH FURNACE WITHOUT A FRONT WALL
67-05 M04-68320
REFLECTIONS ON THE DEOXIDATION OF STEEL
67-05 M04-68901
THE MOVEMENT OF HYDROGEN BETWEEN METAL AND SLAG IN STEELMAKING 67-05 M04-69325
CHARACTERISTICS OF CHARGING AND HEATING PERIODS DURING INTENSIVE OXYGEN BLOWING OF METAL BATH
67-05 M04-69507
INTENSIFICATION OF OPENHEARTH MELTING BY HIGH-PRESSURE COMPRESSED AIR, 67-05 M04-69681
INFLUENCE OF THE OXYGEN CONTENT IN LIQUID METAL AND POURING RATE ON THE STRUCTURE OF SEMIKILLED STEEL INGOTS 67-05 M04-69900
FORMATION AND REMOVAL OF OXIDE INCLUSIONS DURING TAPPING, CASTING AND CRYSTALLIZATION OF LOW-CARBON STEEL 67-06 M04-69968
THE HARMFUL EFFECT OF THE QUANTITY OF OXYGEN IN THE BATH ON THE NATURE OF STEEL CASTING
67-06 M04-70113
THE QUALITY OF SLABS FROM RIMMING STEEL TEEMED AT HIGH SPEED 67-06 M04-70196
THE INTRODUCTION OF OXYGEN INTO A MIXED GAS FLAME
67-06 M04-70454
BEHAVIOR OF PHOSPHORUS DURING MELTING OF NATURALLY-ALLOYED STEEL 67-06 M04-71243
EFFECT OF INTENSITY OF OXYGEN FEED IN THE CONE ON THE PERFORMANCE AND OXIDIZING CAPACITY OF A 900-TON OPENHEARTH FURNACE 67-06 M04-71244
CONVERSION OF OPENHEARTH FURNACES IN A TUBE ROLLING WORKS TO NATURAL GAS 67-06 M04-71246
DETERMINATION OF DECARBONIZING RATES IN OPENHEARTH MELTING BY THE CHEMICAL COMPOSITION OF GAS
67-06 M04-71247
INSTANTANEOUS THERMAL BALANCES SERVE AS AUTOMATION AID IN OPENHEARTH HEAT CONTROL
67-06 M04-71362
SAMPLING LIQUID STEEL FOR OXYGEN DETERMINATION
67-06 M04-71369
DEVELOPMENT OF RAPID CHARGING OF OH FURNACES AT GKIS 67-06 M04-72100
CALCULATING CARBON IN THE OPENHEARTH BATH
67-06 M19-70739
IRON FOR STEELMAKING AT APPLEBY-FRODINGHAM
67-07 M04-72412
MELTING LOSSES IN STEELMAKING PROCESSES
67-07 M04-72563
ON THE CARBON ELIMINATION IN BASIC OXYGEN LD FURNACES WITH A SYSTEM FOR UNBURNED GAS RECOVERY
67-07 M04-72568
IMPROVING THE DESIGN AND RUNNING OF OPENHEARTH FURNACES WITH NO FRONT WALL 67-07 M04-72848
THE USE OF OXYGEN ARCH BURNERS IN OPENHEARTH FURNACES 67-07 M04-73224

OPENHEARTH PROCESS

SCRAP PREPARATION AND ITS SIGNIFICANCE IN OPENHEARTH STEELMAKING 67-07 M04-73237
REFINING CABLE STEEL IN THE LADLE BY A SLAG FORMING MIXTURE AND SIMULTANEOUS ARGON BLOWING 67-07 M04-73778
ACCELERATING OPEN-HEARTH FURNACE HEATS WITH COMPRESSED AIR AT HIGH PRESSURE 67-07 M04-74067
GEOMETRICAL DIMENSIONS OF THE FURNACE BATHS IN OPEN-HEARTH FURNACES NOW IN USE 67-07 M04-74068
EFFECTIVENESS OF USING NATURAL GAS IN THREE-UPTAKE OPEN-HEARTH FURNACES FROM THE THERMAL ENGINEERING POINT OF VIEW 67-07 M04-74133
EFFECT OF GAS PRESSURE CONDITIONS IN THE OPEN-HEARTH MELTING CHAMBER ON RATE OF HEATING METAL AND ON DEVELOPMENT OF CERTAIN REACTIONS 67-07 M04-74134
DEPTH OF PENETRATION OF GAS STREAM INTO LIQUID DURING HORIZONTAL GAS BLOWING 67-08 M04-74327
SELECTING THE OPTIMUM POSITION OF THE GAS PETROLEUM OIL BURNER IN AN OPENHEARTH FURNACE 67-08 M04-74329
BEHAVIOUR OF PHOSPHORUS WHEN MELTING NATURALLY ALLOYED STEEL 67-08 M04-75712
EFFECT OF RATE OF OXYGEN SUPPLY TO FLAME ON OPERATIONAL CHARACTERISTICS AND OXYDIZING CAPACITY OF A 900 TON OPENHEARTH FURNACE 67-08 M04-75713
DETERMINING RATE OF OXIDATION OF CARBON DURING OPENHEARTH FURNACE HEATS FROM COMPOSITION OF FLUE GASES 67-08 M04-75716
HEAT ABSORBTION BY THE BATH AND THERMAL EFFICIENCY OF VERY LARGE OPENHEARTH FURNACES 67-08 M04-75736
CONTINUOUS CONTROL OF METAL TEMPERATURE DURING THE FINISHING PERIOD IN A HIGH-CAPACITY OPENHEARTH FURNACE 67-08 M04-76269
IMPROVING THE QUALITY OF CATALYZER STEEL 67-08 M04-76275
DIFFUSION OF OPEN HEARTH SLAGS IN BASIC REFRACTORIES 67-08 M14-75524
OPERATIONAL ASPECTS OF CONTROL OF COMPOSITION IN STEELMAKING IN AUSTRALIAN STEEL PLANTS 67-09 M04-76421
REFINING CABLE STEEL IN LADLE WITH A SLAG-FORMING MIXTURE AND INJECTING IT WITH ARGON 67-09 M04-76541
CARBURIZATION OF THE METAL BATH BY BLOWING CARBURIZERS WITH COMPRESSED AIR 67-09 M04-76890
LARGE VIBROCHUTES FOR CHARGING BURDEN TO OPENHEARTHS 67-09 M04-76892
OXYGEN CONTENT OF METAL IN OPEN-HEARTH FURNACE AND OXYGEN CONVERTER 67-09 M04-77265
REPLACING ACID OPENHEARTH STEEL FOR THE PRODUCTION OF LARGE FORGINGS WITH BASIC VACUUM-REFINED OPENHEARTH STEEL 67-09 M04-77359
OXYGEN TUYERES FOR METAL 67-09 M04-77756
SOME TECHNOLOGICAL CHARACTERISTICS OF OPENHEARTH PRODUCTION WITH OXYGEN BLOWING 67-09 M04-77873
INCREASING THE OUTPUT OF OPENHEARTH FURNACES BY IMPROVED MELTING PRACTICE 67-09 M04-78049
OXYGEN LANCING IN THE OPEN HEARTH 67-09 M04-78134
A NEW METHOD OF PRODUCING QUALITY LOW-CARBON NONAGING 08YU STEEL 67-10 M04-78421
PRODUCING ROPE STEEL IN A LARGE FURNACE 67-10 M04-78422
EFFECT OF KILLING WITH ALUMINUM-BEARING FERROALLOYS ON THE QUALITY OF TUBE STEEL 67-10 M04-78423
INVESTIGATION OF MELTING AND MIXING PROCESSES DURING OPEN HEARTH STEELMAKING BY RADIOTRACER TECHNIQUES 67-10 M04-78757
CONTROLLING METAL TEMPERATURE CONTINUOUSLY DURING REFINING IN A LARGE OPEN-HEARTH FURNACE 67-10 M04-79262
IMPROVING QUALITY OF CATALYST STEEL 67-10 M04-79268
DETERMINING THE RATE OF OXYGEN TRANSFER TO SLAG IN AN OPENHEARTH FURNACE 67-10 M04-79322
AUTOMATIC CONTROL OF OPENHEARTH MELTING 67-10 M04-79332
EXCHANGE OF HYDROGEN BETWEEN SLAG AND METAL IN THE VARIOUS STEELMAKING PROCESSES 67-10 M04-79672
HOW FUEL FLOW RATE AFFECTS OUTPUT AND THERMAL ROUTINES IN THE OPENHEARTH 67-10 M04-79821
OXYGEN BLOWING THE BATH OF A 600-TON OPENHEARTH FURNACE 67-10 M04-79824
OXYGEN TO INTENSIFY OPENHEARTH OPERATIONS IN THE TRSNEC STEELMAKING SHOP 67-10 M04-79851
EFFECT OF BLAST FURNACE SLAG ON OPEN HEARTH OPERATIONS 67-11 M04-80111
QUALITY OF AXLE STEEL WHEN BATH IS OXYGEN-BLOWN 67-11 M04-80854
EFFICIENT FUEL OIL COMBUSTION IN OPENHEARTH FURNACES 67-11 M04-81039
WHY SULFUR BUILDS UP IN LARGE OPENHEARTH-MELTED STEEL 67-11 M04-81234
SLAG CONDITIONS IN OPENHEARTH STEELMAKING WITH OXYGEN LANCED TO FLAME AND BATH 67-11 M04-81404
STEEL QUALITY FROM 100-TON OXYGEN CONVERTERS 67-11 M04-81406
EXPERIMENTAL USE OF OXYGEN IN PANEL FURNACE STEELMAKING 67-11 M04-81609
OXYGEN INTENSIFICATION PRACTICE ON 230-TON OPENHEARTHS. PT. 1 67-11 M04-81610
THE OPTIMUM OXYGEN CONCENTRATION IN THE BLAST MIXTURE WHEN BLOWING AN OPENHEARTH FURNACE 67-11 M04-81646
OXIDIZING CAPACITY OF AN OPENHEARTH FURNACE DURING VARIOUS METHODS OF INTENSIFICATION 67-11 M04-81647
BEHAVIOR OF HYDROGEN IN STEEL MADE IN BASIC OPENHEARTH FURNACES 67-11 M04-81648
CHANGE IN THE AMOUNT OF IMPURITIES IN MOLTEN STEEL DURING THEIR FLOTATION 67-11 M04-81649
NONMETALLIC INCLUSIONS IN METAL DURING THE MELTING PROCESS 67-12 M04-81706
DECARBURIZATION AND HEATING OF METAL WHEN BLOWING THE POOL WITH COMPRESSED AIR 67-12 M04-81707
ON THE EFFECTIVENESS OF USING NATURAL GAS TO FUEL OPENHEARTH FURNACES 67-12 M04-81726
AUTOMATIC CONTROL OF THE STEELMAKING POOL 67-12 M04-81727
OXYGEN INTENSIFICATION PRACTICE ON 230-TON OPENHEARTHS. PT. 2 67-12 M04-81779
HOW SCRAP AMOUNTS AFFECT THE WORK OF AN OXYGEN-INTENSIFIED OPENHEARTH FURNACE 67-12 M04-81780
SOME TECHNOLOGICAL ASPECTS PECULIAR TO OPENHEARTH INTENSIFICATION WITH OXYGEN 67-12 M04-81782
PHASE COMPOSITION OF OPENHEARTH SLAGS FORMING DURING SCRAP-ORE CONVERSION OF LOW-MANGANESE IRONS 67-12 M04-81865
BEHAVIOR OF NITROGEN IN OPENHEARTH FURNACE 67-12 M04-81949
HYDROGEN AND OXYGEN IN THE BASIC OPENHEARTH METHOD--A CONTRIBUTION TO THE PHYSICS OF STEEL PRODUCTION 67-12 M04-81958
HOW OPENHEARTH BATH TEMPERATURES AFFECT DESULFURIZATION AND DEPHOSPHORIZATION DURING THE WORKING-UP PERIOD 67-12 M04-82479
OXYGEN STEELMAKING IN THE BASIC OPENHEARTH FURNACE 67-12 M04-83074
PRODUCING CABLE STEEL IN LARGE OPEN-HEARTH FURNACES 67-12 M04-83420
EFFECT OF DEOXIDATION BY MEANS OF ALUMINIUM-CONTAINING FERROALLOY ON THE QUALITY OF TUBE STEEL 67-12 M04-83421
AN ECONOMIST LOOKS AT OPENHEARTH STEELMAKING 67-12 M04-83455
THE MEASUREMENT OF THERMAL FLOW PATTERNS IN THE WORKING SPACE OF A 900-TON OPENHEARTH FURNACE 67-12 M04-83465
EQUIPMENT FOR MEASURING TEMPERATURE AT ROOFS OF OPEN-HEARTH FURNACES 67-12 M19-83423

OPENHEARTH PROCESS, AUTOMATIC CONTROL

SOME PROBLEMS IN OBTAINING WORKING INFORMATION ON THE TECHNOLOGICAL PARAMETERS OF OPENHEARTH PRODUCTION 67-02 M04-61207
AUTOMATED THERMAL CONDITIONS FOR AN OPENHEARTH FURNACE 67-09 M04-76859

OPENHEARTH PROCESS, AUTOMATION

COMPREHENSIVE PARAMETERS FOR OPENHEARTH FURNACE AUTOMATION 67-06 M04-70944
INTRODUCTION OF COMPUTERIZED CONTROL TO OPENHEARTH FURNACE OPERATION 67-07 M04-72566
A METHOD OF MODULATING THE PARAMETERS OF FIRING OPENHEARTH FURNACES TO DETERMINE THE CARBON OXIDATION RATE 67-08 M04-74328
AUTOMATIC CONTROL OF OPENHEARTH MELTING WHEN OXYGEN IS USED 67-08 M04-74348
ON THE ACCURACY OF CONTINUOUSLY CALCULATED CARBON

IN THE OPENHEARTH BATH 67-11 M04-81301
THE OPENHEARTH AS A SUBJECT FOR CONTROL 67-11 M04-81629
A GAGE FOR AUTOMATIC CONTROL OF EXCESS AIR COEFFICIENT IN OPENHEARTH FURNACES 67-12 M04-81862

OPENHEARTH PROCESS, CHARGING
USE OF HIGH-BASICITY SINTERS INSTEAD OF IRON ORE IN THE CHARGE OF OPENHEARTH FURNACES 67-02 M04-62140
UTILIZATION OF DUST FROM STEELMAKING PROCESS AS BRIQUETS 67-11 M04-80502

OPENHEARTH PROCESS, COMPUTERS
CERTAIN PROBLEMS IN OBTAINING INFORMATION ON THE COURSE OF OPENHEARTH MELTING 67-01 M04-57253

OPENHEARTH PROCESS, DUST CONTROL
MODELING OF THE DUST FORMATION PROCESS IN STEELMAKING FUNACES 67-01 M04-58189

OPENHEARTH PROCESS, FUEL INJECTION
DEOXIDATION BY PNEUMATIC INJECTION OF GRAPHITE 67-07 M04-73095

OPENHEARTH PROCESS, GAS ANALYSIS
REGULATING THE EXCESS AIR IN OPENHEARTH FURNACES OF VARIOUS CAPACITY 67-06 M04-71245

OPENHEARTH PROCESS, HEAT BALANCE
CHANGE IN TEMPERATURE OF METAL DURING THE ORE RIMMING PERIOD OF OPENHEARTH MELTING 67-01 M04-57254
HEAT ABSORPTION OF POOL AND THERMAL EFFICIENCY OF HIGH-CAPACITY OPENHEARTH FURNACE 67-06 M04-71267

OPENHEARTH PROCESS, IMPURITIES
CONTENT OF NITROGEN IN METAL DURING COMPRESSED AIR BLOWING OF AN OPENHEARTH BATH 67-01 M04-58170

OPENHEARTH PROCESS, MATHEMATICAL MODELS
A THERMOCHEMICAL APPROACH TO PREDICTION OF OPENHEARTH VARIABLES 67-01 M04-57904

OPENHEARTH PROCESS, MEASURING INSTRUMENTS
IRON POUR-PERIOD PHOTOCELL TRANSDUCER FOR OPENHEARTHS 67-01 M04-57683

OPENHEARTH PROCESS, QUALITY CONTROL
INVESTIGATION OF MELTING AND MIXING PROCESSES DURING OPENHEARTH STEELMAKING BY RADIOTRACER TECHNIQUES 67-12 M04-83126

OPENHEARTH PROCESS, REACTIONS /CHEMICAL/
CARBON BURNOUT FROM STEEL DROP AND EFFECT OF THIS FACTOR ON SLAG FROTHING 67-02 M04-62261

OPENHEARTH PROCESS, SLAGGING
BRIQUETS AS A SLAGFORMING MATERIAL IN STEEL PRODUCTION 67-04 M04-67608

OPENHEARTH PROCESS, TEMPERATURE CONTROL
CONTINUOUS TEMPERATURE MEASUREMENTS OF MOLTEN OPENHEARTH STEEL 67-06 M04-70180
A GAGE FOR MEASURING OPENHEARTH FURNACE ROOF TEMPERATURE 67-10 M19-78425

OPENHEARTH STEEL
SEE ALSO BASIC OPENHEARTH STEEL

OPENHEARTH STEEL, MECHANICAL PROPERTIES
PRODUCTION AND TESTING OF 1000 KG CHEMICAL CONTAINERS 67-10 M11-78613

OPENHEARTH STEEL, TEMPERATURE CONTROL
CONTINUOUS TEMPERATURE MEASUREMENTS OF MOLTEN OPENHEARTH STEEL 67-06 M04-70180

OPERATIONS RESEARCH
DESCRIPTION OF THE DYNAMICS OF A BLAST FURNACE UNDER THE EFFECT OF DISTURBANCES 67-02 M04-61759
ESTABLISHING A MODEL OF THE DYNAMIC CHARACTERISTICS OF A BLAST FURNACE BY THE DELTA K-DELTA SI CHANNEL 67-02 M04-61760

OPTICAL DENSITY
SEE OPACITY

OPTICAL INSTRUMENTS
SEE DIFFRACTOMETERS
INFRARED SPECTROPHOTOMETERS
INTERFEROMETERS
OPTICAL PYROMETERS
POLARIMETERS

OPTICAL MASERS
SEE LASERS

OPTICAL MEASUREMENTS
SEE ALSO ELECTROPHOTOMETRY
FLAME PHOTOMETRY
PHOTOMETRY
PHOTO-DENSITOMETRIC AND STATISTICAL ANALYSIS OF CAST IRON STRUCTURE 67-02 M19-58969
OPTICAL PROPERTIES OF THIN FILMS OF INDIUM 67-03 M15-65188
PHOTOLUMINESCENCE OF EPITAXIAL N-TYPE GAAS AT 20 K 67-03 M16-65747
OPTICAL PROPERTIES OF GERMANIUM IN THE SPECTRAL REGION 1.7 EV TO 2.1 EV 67-04 M15-66746
OPTICAL PROPERTIES OF ALPHA-MNS IN THE FUNDAMENTAL ABSORPTION REGION 67-04 M15-66791
THE REFLECTION SPECTRA OF SOLIDS, CONDITIONS AND LIMITS OF THE QUANTITATIVE EVALUATION OF THE KUBELKA-MUNK FUNCTION 67-04 M15-67252
IMPURITY-SENSITIVE INFRARED ABSORPTION IN N-TYPE ALPHA-SIC 67-04 M16-67474
MEASUREMENT OF SURFACE QUALITY OF ALUMINUM SHEET BY OPTICAL REFLECTION 67-04 M19-67065
SIMULTANEOUS DETERMINATION OF FRICTION, COMPRESSION DEFORMATION, AND THE TRUE AREA OF CONTACT OF POWDER MATERIALS 67-05 M17-69635
TUNGSTEN SHADOW CASTING FOR ELECTRON MICROSCOPICAL SPECIMENS 67-06 M15-71012
NEUTRON DIFFRACTION STUDIES ON CHROMIUM-BASED CR-V-MN TERNARY DILUTE ALLOYS 67-06 M16-70571
PROGRAMMED DATA SPEEDS CAMSHAFT INSPECTION 67-07 M19-72806
INTEGRAL DEGREE OF BLACKNESS OF MATERIALS IN THE TEMPERATURE INTERVAL 100 TO 1100 C 67-09 M15-76762
THE MEASUREMENT OF SURFACE ROUGHNESS AND PROFILES ON METALS 67-10 M19-78556
ELECTROREFLECTANCE MEASUREMENTS ON GAXIN1-XAS ALLOYS 67-11 M16-80326
OPTICAL AND X-RAY SPECTROSCOPY 67-11 M19-80134
OPTICAL EFFECTS IN METALS APPLICATION OF A LEAST-SQUARES METHOD TO MEASUREMENTS ON GOLD AND SILVER 67-12 M15-82374

OPTICAL MICROSCOPES
OPTICAL SURFACE ROUGHNESS MEASURING METHODS 67-02 M19-59997
THE OPTICAL MICROSCOPE IN METALLOGRAPHY 67-12 M13-83232

OPTICAL MICROSCOPY
OPTICAL INVESTIGATION OF SURFACES USING REPLICA FILMS 67-01 M13-58009
DISLOCATION ETCHING OF DEFORMED MOLYBDENUM 67-01 M13-58397
A TECHNIQUE FOR PREPARING SAMPLES OF SMALL FRAGILE PARTICLES FOR ELECTRON MICROSCOPE EXAMINATION BY MEANS OF REPLICAS 67-01 M13-58543
DISLOCATION MECHANISM OF THE GROWTH OF SPHEROIDAL GRAPHITE IN IRON 67-02 M14-61929
CHEMICAL THINNING TECHNIQUE FOR THE PREPARATION OF THIN FOILS FROM BULK SAMPLES OF FERROUS MATERIALS 67-04 M13-67026
LORENTZ MICROSCOPY IN POLYCRYSTALLINE NI-FE FILMS 2000-A THICK 67-07 M15-73571
INVESTIGATION OF REDUCTION LAYERS OF FE203 BY ELECTRON DIFFRACTION AND OPTICAL MICROSCOPY 67-09 M04-77189
ELECTRON OPTICAL INVESTIGATION OF THE SECONDARY RECRYSTALLIZATION OF DRAWN TUNGSTEN WIRES BASED ON THERMAL ELECTRON EMISSION 67-09 M14-76799

OPTICAL PROPERTIES
TRAP-DOMINATED ELECTRICAL AND OPTICAL EFFECTS IN CRYSTALLINE BORON 67-01 M15-58415
BRIGHTNESS COEFFICIENTS OF METAL POWDERS 67-02 M09-62174
ANOMALOUS POLARITY-DEPENDENT ELECTRO-OPTIC EFFECT IN CUBIC ZNS AND ZNTE 67-02 M15-60686
OPTICAL CONSTANTS OF INCANDESCENT REFRACTORY METALS 67-02 M15-60687
OPTICAL PROPERTIES OF EVAPORATED FILMS OF CHROMIUM AND COPPER 67-02 M15-60688
OPTICAL PROPERTIES OF DILUTED SOLID SOLUTIONS OF SILVER-GOLD 67-02 M15-62091
OBSERVATION OF LOW TEMPERATURE OXIDATION PROCESS OF PURE COPPER BY 0.6 MICRON MONOCHROMATIC LIGHT 67-02 M18-60271
THE REFLECTANCE OF THE INTERMETALLIC COMPOUNDS NIAL AND COAL 67-03 M15-65640
OPTICAL PROPERTIES OF EUROPIUM AND BARIUM 67-03 M15-65746
THERMAL AND OPTICAL ENERGY GAPS IN PBTE 67-03 M16-65884
OPTICAL PROPERTIES OF GERMANIUM IN THE SPECTRAL REGION 1.7 EV TO 2.1 EV 67-04 M15-66746
OPTICAL PROPERTIES AND ELECTRONIC STRUCTURE OF AMORPHOUS GERMANIUM 67-04 M16-66747
OPTICAL PROPERTIES AND ENERGY BAND STRUCTURE OF ZNS-CDS SINGLE CRYSTALS 67-04 M16-66748
THE THICKNESS AND OPTICAL PROPERTIES OF FILMS OF ANODIC ALUMINIUM OXIDE 67-05 M15-68636

OPTICAL PROPERTIES
EFFECT OF ELECTROMAGNETIC RADIATION 67-05 M15-68994
THE OPTICAL CONSTANTS OF ALUMINIUM FROM 12 TO 36 EV 67-06 M15-70695
THE OPTICAL PROPERTIES OF INDIUM, GALLIUM AND THALLIUM 67-06 M15-72089
ELECTRICAL AND OPTICAL PROPERTIES OF AMORPHOUS GERMANIUM 67-06 M16-69921
FREE CARRIER OPTICAL CONSTANTS OF SNTE 67-06 M16-70469
EFFECT OF A PERIODIC LATTICE POTENTIAL ON THE OPTICAL PROPERTIES AND OTHER INTEGRAL CHARACTERISTICS OF CUBIC POLYVALENT METALS 67-06 M16-71828
ON THE PREPARATION, OPTICAL PROPERTIES AND ELECTRICAL BEHAVIOR OF ALUMINIUM NITRIDE 67-07 M15-72837
THE DISPERSION OF THE REFRACTIVE INDEX AND THE BIREFRINGENCE OF ALN 67-07 M15-72960
PREPARATION AND SOME PROPERTIES OF SOLID SOLUTIONS CD1-XMGXTE 67-08 M14-75058
OPTICAL AND MAGNETO-OPTICAL PROPERTIES OF IRON AND COBALT 67-08 M15-74631
RELATIONSHIP BETWEEN A PORTION OF THE METALLIC SURFACE AND THE BRIGHTNESS COEFFICIENTS OF POWDERS 67-08 M15-75432
OPTICAL AND MAGNETO-OPTICAL PROPERTIES OF SOME SEMICONDUCTORS 67-08 M16-74437
ELECTROMODULATION OF THE OPTICAL CONSTANTS OF RUTILE IN THE UV 67-09 M15-77177
FAR-INFRARED OPTICAL PROPERTIES OF CAF2, SRF2, BAF2 AND CDF2 67-09 M15-77178
OPTICAL PROPERTIES OF METALS 67-10 M15-79101
NONDIRECT PROCESSES AND OPTICAL PROPERTIES OF METALS 67-10 M15-79148
TRACE CHARACTERIZATION AND THE PROPERTIES OF MATERIALS 67-11 M01-80131
ELECTRICAL AND OPTICAL PROPERTIES OF SEMICONDUCTING COMPOUNDS OF THE A2VB3VI TYPE AND THE CHEMICAL BOND 67-11 M15-80169
OPTICAL PROPERTIES, PRESSURE EFFECTS
A PSEUDOPOTENTIAL EXAMINATION OF THE PRESSURE COEFFICIENTS OF OPTICAL TRANSITIONS IN SEMICONDUCTORS 67-11 M15-81673
OPTICAL PROPERTIES, RADIATION EFFECTS
STUDY OF THE EFFECT OF PROTON BOMBARDMENT ON OPTICAL CONSTANTS OF THIN METALLIC LAYERS 67-10 M16-79453
OPTICAL PUMPING
SEMICONDUCTOR LASERS USING OPTICAL PUMPING 67-04 M16-66759
OPTICAL PYROMETERS
A CONTACTLESS SYSTEM FOR MEASURING MOLTEN IRON TEMPERATURE AND OPTIMUM REGULATION OF CUPOLA BLAST 67-04 M06-66417
MEASURING THE TEMPERATURE OF MOLTEN IRON WITH AN OPTICAL PYROMETER 67-07 M19-74039
OPTICAL TRANSMITTANCE
SEE OPACITY
ORANGE PEEL
SEE COATINGS
DEFECTS
ORBITS
DOUBLY-ASSOCIATED CATION-VACANCY CENTERS IN MAGNESIUM OXIDE 67-11 M16-81683
ORDER DISORDER
SEE ALSO LONG RANGE ORDER
SHORT RANGE ORDER
STRENGTHENING MECHANISMS OF ORDERING ALLOYS. PT. 2 67-01 M13-57348
STUDY OF IRON-NICKEL ALLOYS CLOSE TO NI3FE IN COMPOSITION. ORDERED STRUCTURE AS A FUNCTION OF HEAT TREATMENT 67-01 M14-57168
COHERENT PRECIPITATION IN SUBSTITUTIONAL SOLID SOLUTIONS OF ALPHA IRON 67-01 M14-57926
EFFECT OF WC IMPURITIES ON THE SHORT RANGE ORDER IN TAC-NBC SOLID SOLUTIONS 67-01 M14-58145
ORDER-DISORDER TRANSFORMATION AND MAGNETIC PROPERTIES IN IRON-NICKEL ALLOYS 67-01 M14-58659
EFFECT OF MAGNETIZATION ON THE L2O ORDERING REACTION IN IRON-ALUMINUM ALLOYS 67-01 M14-58735
LATTICE MODULATIONS IN THE CUAU ALLOY 67-01 M14-58751
COMPOSITION AND ATOMIC ORDER DEPENDENCE OF THE MAGNETIZATION OF NI-MN ALLOYS 67-01 M15-57342
PRODUCTION OF DISORDERED REGIONS IN GERMANIUM BY ELECTRON IRRADIATION 67-01 M16-57127
MAGNETIC STRUCTURES OF TBC2 AND HOC2 67-01 M16-58639
EXPERIMENTAL VERIFICATION OF THE MAGNETIC DEPENDENCE OF THE ORDER PARAMETER OF SUPERCONDUCTORS 67-01 M16-58643
DEVELOPMENT TRENDS IN METALLIC MATERIALS 67-02 M01-60203
DIFFUSE X-RAY SCATTERING BY THE SOLID SOLUTION HFC-ZRC 67-02 M09-61167
QUENCHING OF EXCESS VACANCIES IN DEFORMED ALLOYS AND ALLOYS SUBJECTED TO THERMOMECHANICAL TREATMENT 67-02 M13-60299
STATE OF ORDERING AND THE ELECTRICAL RESISTIVITY IN THE QUASIBINARY SECTION NI4MO-NI4-W 67-02 M13-61896
ORDER-DISORDER TRANSFORMATION OF FE-CO ALLOYS IN FINE PARTICLES 67-02 M14-59751
ON THE MECHANISM OF PRECIPITATION IN CU-2 WT PER CENT BE ALLOY 67-02 M14-60157
SURFACE STRUCTURE OF VAPOR-DEPOSITED SILVER 67-02 M14-60823
INTERACTION OF BORON WITH TUNGSTEN SINGLE CRYSTAL SUBSTRATES 67-02 M14-61572
NATURE OF THE ORDER-DISORDER TRANSFORMATION IN THE ALLOY MG3CD 67-02 M14-61922
NATURE OF THE ANOMALOUS VALUE OF HEAT CAPACITY OF ORDERED ALLOYS IN THE REGION OF TEMPERATURES ABOVE THE ORDER-DISORDER PHASE TRANSITION 67-02 M15-58860
RESISTIVITY OF ORDERED AND DISORDERED IRON-NICKEL ALLOYS 67-02 M15-62193
APPROXIMATE CALCULATION OF ELECTRONIC STRUCTURE OF DISORDERED ALLOYS-APPLICATION TO ALPHA BRASS 67-02 M16-60768
CERTAIN FEATURES ASSOCIATED WITH THE K-STATE IN THE ALLOYS NI-CR, NI-CR-MO AND FE-NI-CR-MO 67-02 M17-61170
EMBRITTLEMENT OF ABTYPE ORDERING ALLOYS WITH AN FCC LATTICE 67-02 M17-61933
EFFECT OF SHORT-RANGE ORDER ON THE MECHANICAL PROPERTIES OF SOLID SOLUTIONS 67-02 M17-61940
A STUDY OF GRAIN GROWTH IN FECO-V 67-03 M14-65091
THE RECOVERY AND ORDERING PROCESSES OF COLD WORKED NI-FE ALLOYS 67-03 M14-65386
INVESTIGATIONS OF THE HALL EFFECT AND ELECTRICAL CONDUCTIVITY IN A SILVER-PALLADIUM SOLID SOLUTION 67-03 M16-65065
EFFECT OF ORDERING ON HIGH-TEMPERATURE CREEP OF FE-AL ALLOYS 67-03 M17-65790
DISSOLUTION CALORIMETER IN TIN AND APPLICATION TO THE STUDY OF CERTAIN ORDER-DISORDER TRANSFORMATIONS 67-04 M14-66047
ORDERED ALLOYS OF THE GOLD-PALLADIUM SYSTEM. PT. 2. ELECTRON DIFFRACTION STUDY ON EVAPORATED AUPD3 FILMS 67-04 M14-67477
ORDERING PROCESSES AND STRAIN AGEING OF TERNARY ORDERED ALLOYS BASED ON NI3FE 67-04 M14-67641
EFFECT OF ORDERING ON THE HYDROGEN PERMEABILITY OF IRON ALLOYS WITH COBALT 67-04 M14-67660
THE PRELIMINARY RESULTS OF STUDYING TRANSFORMATION PHENOMENA IN NICKEL-COBALT ALLOYS 67-04 M14-67756
ON SOME PARTICULARITIES OF THE CHANGE IN THE ELECTRICAL RESISTIVITY OF COPPER-GOLD ALLOYS NEAR THE CUAU COMPOSITION 67-04 M15-67050
ANTIFERRO-FERROMAGNETIC TRANSITION IN FE --PTPD--3 ALLOYS 67-04 M15-67662
FEATURES OF THE AB2 SUPERSTRUCTURE --PT2MO-TYPE-- IN A FACE-CENTERED CUBIC LATTICE 67-05 M14-68240
NEUTRON DIFFRACTION STUDY OF ORDERED NI-MN ALLOYS 67-05 M14-68243
THE ORDER-DISORDER TRANSFORMATION IN CU3AU AT HIGH PRESSURE 67-05 M14-69210
METASTABILITY OF STRUCTURAL FORMS OF COPPER-PLATINUM ALLOYS NEAR THE STOICHIOMETRIC COMPOSITION CU3PT 67-05 M14-69226
AN ANALYSIS OF LATTICE VIBRATIONS OF ORDERED FE3AL 67-05 M14-69577
ORDERING AND MAGNETIC TRANSFORMATION IN AN FE-AL ALLOY 67-05 M14-69641
STRUCTURAL TRANSFORMATIONS IN TYPE NI4MO ALLOYS 67-05 M14-69697
TRANSMISSION ELECTRON MICROSCOPIC OBSERVATION OF LATTICE DEFORMATION IN ANTIPHASE BOUNDARIES OF

ORDERED FE-SI ALLOYS 67-05 M14-69786
ELECTRON MICROSCOPIC EXAMINATION OF HIGH-COERCIVE COBALT-PLATINUM ALLOYS 67-05 M14-69790
PAIR-CORRELATION FUNCTION IN DISORDERED BETA-BRASS AS STUDIED BY NEUTRON DIFFRACTION 67-05 M14-69806
COMPARING THE STACKING FAULT ENERGY AND ELECTRON STRUCTURE OF A METAL 67-05 M16-68254
COEXISTING PHASES IN PARTIALLY ORDERED MNNI3 67-06 M13-71997
ISOTOPE EFFECT FOR THE DIFFUSION OF ZINC IN COPPER, AND ORDERED AND DISORDERED CUZN 67-06 M14-69909
PHASE DECOMPOSITION IN NEAR NI3AL ALLOYS 67-06 M14-69941
STUDY OF ORDERING IN TERNARY SYSTEM ALLOYS 67-06 M14-70285
THE FORMATION OF COHERENT ORDERED PRECIPITATES IN NI-CR-AL-ALLOY 67-06 M14-71857
THE EFFECT OF SUBLATTICE ORDER IN BINARY ALLOYS WITH ONE MAGNETIC COMPONENT. PT. 3 67-06 M15-71286
INFLUENCE OF ORDERING ON THE PROPERTIES OF SOLID SOLUTIONS OF THE SYSTEM --HGSE--3X---IN2SE3--1-X 67-06 M16-70982
TENSILE RESULTS IN ORDERED AND DISORDERED NI3FE SINGLE CRYSTALS 67-06 M17-72240
THEORETICAL AND EXPERIMENTAL ASPECTS OF THE EFFECTS OF POINT DEFECTS AND DISORDER ON THE VIBRATIONS OF CRYSTALS. PT. 2 67-07 M13-73113
CLOSE-PACKED STRUCTURES 67-07 M13-73669
DOMAIN STRUCTURE OF ORDERED EQUIATOMIC PT-CO OBSERVED IN THE FIELD-ION MICROSCOPE 67-07 M14-72629
ORDER-DISORDER AND RADIATION DAMAGE 67-07 M14-73681
STRUCTURAL TRANSFORMATIONS IN NI4MO-TYPE ALLOYS 67-07 M14-74083
EFFECT OF ORDERING ON ROLLING-INDUCED MAGNETIC ANISOTROPY IN FECO-2V 67-07 M15-73504
THERMODYNAMIC PROPERTIES 67-07 M15-73663
ON THE CHANGE OF ELECTRICAL PROPERTIES CAUSED BY SHORT RANGE ORDER IN THE ALPHA-SOLID SOLUTIONS WITH GOLD-SILVER- OR COPPER-BASE ALLOYS CONTAINING MANGANESE 67-07 M15-73852
SOLID STATE PHYSICS--ADVANCES IN RESEARCH AND APPLICATIONS 67-07 M16-73116
SUPERCONDUCTIVE PROPERTIES 67-07 M16-73689
NEUTRON DIFFRACTION DETERMINATION OF THE STRUCTURE OF TI-FE AND TI-CO ALLOYS 67-08 M13-74646
SURFACE MEASUREMENTS USING LOW ENERGY ELECTRON DIFFRACTION 67-08 M13-74708
LOCAL ATOMIC ARRANGEMENTS STUDIED BY X-RAY DIFFRACTION 67-08 M13-75337
LOW-ENERGY ELECTRON DIFFRACTION STUDY OF THE --100-- FACE OF SILVER, GOLD, AND PALLADIUM 67-08 M13-75369
ENERGY OF THE ORDER-DISORDER TRANSFORMATION OF MGIN AS A SUPERLATTICE WITH THE L10 STRUCTURE 67-08 M14-74423
NEUTRON DIFFRACTION STUDIES ON TITANIUM-CARBON AND ZIRCONIUM-CARBON ALLOYS 67-08 M14-75249
EFFECT OF ATOMIC ORDERING ON STRAIN AGING OF NI2CR ALLOY 67-08 M14-75281
LONG-RANGE ORDER IN SOLID ALLOYS. PT. 2 67-08 M14-75339
EFFECT OF STRUCTURAL STATE ON THE MAGNETIC PROPERTIES OF A CO-PT ALLOY 67-08 M15-74648
MOSSBAUER EFFECT IN IRON-ALUMINIUM ALLOYS. PT. 1 67-08 M15-75226
MOSSBAUER EFFECT IN IRON-ALUMINIUM ALLOYS PT. 2 67-08 M15-75227
THE STRAIN AGING OF TERNARY ORDERED NI3FE-BASE ALLOYS AND THE RELATIONSHIP OF THEIR MECHANICAL PROPERTIES TO TEMPERATURE 67-08 M17-74892
LOWER-TEMPERATURE MODIFICATIONS OF NB2C AND V2C 67-09 M13-76400
THE DISLOCATION MOTION IN ALLOYS WITH COHERENT, ORDERED, STRESSED PRECIPITATES 67-09 M14-76790
EFFECTS OF ORDER-DISORDER PHASE TRANSITION ON INTERDIFFUSION IN GOLD-COPPER ALLOYS 67-09 M14-76952
ATOMIC AND MAGNETIC ORDER IN MN2PD3 67-09 M15-77673
THE ACTIVITY OF COPPER IN SOLID COPPER-PLATINUM ALLOYS AND SOME OBSERVATIONS ON THE ORDERING OF CU3PT 67-09 M15-77926
LATTICE VIBRATIONS AND LOCAL ORDER IN SUBSTITUTIONAL SOLID SOLUTIONS. PT. 1 67-09 M16-76736
MICROSCOPIC EVIDENCE OF PLASTIC DEFORMATION ON CLEAVED GERMANIUM SURFACES 67-10 M13-79158
INTERPRETATION OF ELECTRON DIFFRACTION PATTERNS 67-10 M13-80003
THE MECHANISM OF DEFORMATION OF THE ORDERED CUAU ALLOY 67-10 M14-79005
X-RAY STUDY OF PROTON-INDUCED DISORDER IN CU3AU 67-10 M14-79159
THERMALLY ORDERED OXYGEN ON A NICKEL SURFACE 67-10 M14-79572
CRYSTAL STRUCTURE OF QUENCHED STEEL 67-10 M14-80014
DEPENDENCE OF UNIDIRECTIONAL ANISOTROPY ON THE DEGREE OF ATOMIC ORDER IN A NI3MN ALLOY 67-10 M15-79837
THE THERMAL EMF AND K-STATE OF NICKEL-CHROMIUM ALLOYS 67-10 M15-79910
CONTRIBUTION TO THE STUDY OF THE PHENOMENA ASSOCIATED WITH ORDER-DISORDER TRANSITIONS IN FE-NI ALLOYS 67-10 M15-80018
ORDER-DISORDER OF NONSTOICHIOMETRIC BINARY ALLOYS AND ISING ANTIFERROMAGNETS IN MAGNETIC FIELDS 67-11 M14-80660
EFFECT OF PLASTIC STRAIN ON THE STATE OF CARBON SOLID SOLUTION IN QUENCHED STEEL MARTENSITE 67-11 M14-80745
INFLUENCE OF ENTROPY IN PHASE STABILIZATION 67-11 M14-81103
ON CHANGES IN SHORT-RANGE ORDER STRUCTURES IN MELTS OF MAGNESIUM COMPOUNDS AND GROUP 4 ELEMENTS DURING HEATING 67-11 M14-81327
THE STRUCTURE OF LIQUID GERMANIUM 67-11 M14-81637
THE POSSIBLE ROLE OF DISLOCATIONS IN GENERATING ORDERED AND DISORDERED SHEAR STRUCTURES 67-11 M14-81671
THE THERMODYNAMIC STABILITY OF METALLIC PHASES 67-11 M15-81105
THE MAGNETIC AND CHEMICAL ORDERING OF THE HEUSLER ALLOYS PD2MNIN, PD2MNSN AND PD2MNSB 67-12 M14-82550
CRYSTALLOGRAPHY OF THE FCC TO BCC MARTENSITIC TRANSFORMATION IN AN IRON-PLATINUM ALLOY 67-12 M14-82865
ORDERING AND ITS EFFECT ON DISLOCATION ARRANGEMENTS IN MG3CD 67-12 M14-82962
RECOVERY PROCESSES AND ORDERING IN NI3AL 67-12 M14-83262
THE MAGNETIC AND CRYSTALLOGRAPHIC PROPERTIES OF MNBI STUDIED BY NEUTRON DIFFRACTION 67-12 M15-83489
BEHAVIOR OF ORDERING ALLOYS UNDER VARIOUS STRAIN CONDITIONS 67-12 M17-82343

ORDER DISORDER, ALLOYING EFFECTS
AN ORDERED STRUCTURE IN DILUTE IRON ALLOYS 67-06 M14-71616
ON THE SPECIFIC HEAT OF FE-SI ALLOYS 67-08 M15-75647
LONG PERIOD STACKING ORDER IN CLOSE PACKED STRUCTURES OF AU-CD ALLOYS 67-10 M13-78719
ORDERED PT3-CO ALLOY STUDIED IN THE FIELD-ION MICROSCOPE 67-12 M14-82365

ORDER DISORDER, COMPOSITION EFFECTS
LONG PERIOD STACKING ORDER IN CLOSE PACKED STRUCTURES OF METALS 67-05 M14-68275
ON THE NATURE OF THE K-STATE IN THE SYSTEM OF IRON AND ALUMINIUM 67-06 M14-70785

ORDER DISORDER, IMPURITY EFFECTS
THE INTERACTIONS BETWEEN INTERSTITIALS AND THEIR ORDERING 67-08 M14-75078

ORDER DISORDER, STRESS EFFECTS
PLASTIC FLOW OF MARTENSITE 67-09 M13-76594

ORDER DISORDER, TEMPERATURE EFFECTS
PHYSICAL PROPERTIES OF ALPHA PLUTONIUM AND DELTA PU-PHASE ALLOYS AT LOW TEMPERATURES 67-09 M15-76311

ORDERING
SEE ORDER DISORDER
ORE BENEFICIATION
SEE BENEFICIATION
ORE CONCENTRATION
SEE BENEFICIATION
ORE DEPOSITS
SEE MINERAL DEPOSITS
ORE DRESSING
SEE BENEFICIATION

ORES
SEE METALLIFEROUS MINERALS
ORGANIC ACIDS, CORROSION ENVIRONMENTS
THE EFFECT OF ORGANIC ACIDS ON THE ANODIC DISSOLUTION OF NICKEL ALLOYS AND STAINLESS STEELS 67-11 M18-80709

ORGANIC COATINGS
SEE ALSO LACQUERS
PLASTIC LINED ALUMINUM SHEET 67-01 M01-57460
EXPERIENCES WITH EPOXY POWDER SPRAYING OF METALS 67-01 M12-57551
ASSEMBLY LINES FOR PAINTING 67-01 M12-58433
ORGANIC COATINGS FOR STEEL SHEETS--CONTINUOUS PAINTING LINE 67-01 M12-58489
APPLICATION OF ORGANOSOL AND PLASTISOL COATINGS TO FABRICATED WIRE PRODUCTS 67-02 M12-59012
ELECTRODEPOSITED ORGANIC COATINGS. PT. 1 67-02 M12-59040
THE PLASTIC COATING OF METAL PARTS BY FLAME SPRAYING 67-02 M12-59415
SUCCESSFUL FRENCH PROCESS FOR FLUIDIZED BED COATING 67-02 M12-60926
ELECTRODEPOSITION COMES TO CANADA 67-02 M12-60928
CORROSION-INHIBITING ADDITIVES IN OIL-FIRED BOILERS 67-02 M18-62032
ELECTROPOLISHING AS A PRETREATMENT TO THE APPLICATION OF PLASTIC-BASED PAINTS ON METALLIC BASES OF VARYING COMPOSITION 67-03 M18-65177
SOME VAPOR PHASE INHIBITOR EXPERIMENTS 67-03 M18-65474
PRECOATED STRIP 67-04 M12-66137
PLASTICS PITCH FOR PIPE PROTECTION 67-04 M12-66502
TECHNICAL DEVELOPMENTS IN 1966 67-04 M12-66507
NEW COATINGS CAN CUT PAINT MAINTENANCE 67-04 M12-66593
ELECTROCOATING COMES OF AGE 67-04 M12-66696
THE FORMATION STAGE OF A SURFACE COATING 67-04 M12-66719
POLYMER COATING OF THE INTERNAL SURFACE IN PIPES 67-04 M12-66817
UNDERWATER COATINGS USE 67-04 M18-66313
USE OF PLASTIC-COATED PRODUCTS IN MODERN INDUSTRY 67-04 M20-66556
A NEW LOOK AT COATING METAL PARTS WITH POLYMER POWDERS 67-05 M12-69500
EPOXY SURFACE COATINGS 67-05 M18-68922
VINYL DISPERSION COATINGS FOR METALS 67-06 M12-70610
CORROSION AND THE DETERMINATION OF THE EFFECTIVENESS OF CORROSION PROTECTION, PT. 2 67-06 M18-71179
FLUIDIZING PRACTICE IN AMERICA 67-07 M12-74029
METAL BUILDING MAKERS EYE 20-YEAR COATING 67-07 M12-74299
EPOXY ON UNDERGROUND PIPE SUBVERTS CORROSION 67-08 M12-74363
PAINTING AND OTHER ORGANIC COATING 67-08 M12-74858
METAL FINISHING GUIDEBOOK DIRECTORY FOR 1967 67-08 M12-76203
CONTROL OF CORROSION AT MECHANICAL JOINTS 67-08 M18-74706
THE SELECTION OF CHEMICAL TREATMENTS OF ANTICORROSION PROTECTION AND PAINT ADHESION ON METAL SURFACES--A CONTINUOUS COAT 67-09 M18-77704
ORGANIC COATING OF ALUMINUM EXTRUSIONS 67-10 M12-78462
SIMPLIFIED GUIDE TO THERMAL-SPRAY COATINGS 67-10 M12-79183
THE POLYURETHANES 67-10 M12-79930
POLYURETHANE-BASED PROTECTIVE LACQUERS FOR COPPER AND ZINC 67-11 M18-81490
CONTROL GLASS PROPERTIES WITH FILMS AND COATINGS 67-12 M12-83176

ORGANIC COATINGS, CORROSION
PLASTIC COATING OF STEEL SHEETS 67-01 M12-57211
LACQUERING, COATING AND LAMINATION OF WIDE STRIP 67-01 M12-58111
THE BEHAVIOR OF VARIOUS COATINGS ON TUBULAR DOLPHINS IN SEA WATER 67-02 M18-59107
LABORATORY COATING TESTS--SHELL INVESTIGATES COATINGS FOR OFFSHORE USE 67-04 M18-66318
THE CORROSION RESISTANCE OF PAINTED STEEL SHEETS AT VARIOUS ATMOSPHERIC RELATIVE HUMIDITIES 67-06 M18-71180
USE OF EPOXIDE SUBSTANCES AS PROTECTIVE COATINGS FOR PICKLING BATHS 67-08 M12-75734
EVALUATION OF THICK FILM COATINGS. CORROSION PROTECTION FOR OIL CONTRY TUBING 67-08 M18-75746
ELECTRODEPOSITING PAINT--MATERIALS, PROCEDURES, EQUIPMENT 67-10 M12-79309
ORGANIC COATINGS, FORMING
HOW TO FORM AND FABRICATE PRECOATED METALS. PT. 1 67-09 M08-78298
ORGANIC COATINGS, MECHANICAL PROPERTIES
COIL COATING OF METALS 67-12 M12-82041
ORGANIC COATINGS, PHYSICAL PROPERTIES
ORGANIC COATINGS 67-08 M12-75478
ORGANIC COMPOUNDS
COMPARATIVE EVALUATION OF COLLECTORS FOR ANTIMONY FLOTATION 67-06 M02-70188
ORGANIC COMPOUNDS, ADDITIVES
THE EFFECT OF ORGANICS IN COPPER SULPHATE ELECTROFORMING BATHS 67-11 M12-80193
ORGANIC COMPOUNDS, COATING
NICKEL ELECTROPLATED NONCONDUCTIVE MATERIALS FOR PROTECTION FROM RAIN EROSION 67-07 M12-74121
ORGANIC COMPOUNDS, COATINGS
THE BEHAVIOR OF COATINGS AT EXTREMELY LOW TEMPERATURES 67-02 M17-59077
SYNTHETIC COATINGS FOR AL 67-08 M12-74597
PREPARES ALUMINUM FOR TEFLON COATING 67-08 M12-75396
ORGANIC COMPOUNDS, CORROSION EFFECTS
INFLUENCE OF CUPRIC IONS ON THE BEHAVIOR OF SURFACE-ACTIVE AGENTS TOWARDS ALUMINIUM 67-05 M18-68312
ORGANIC COMPOUNDS, CORROSION ENVIRONMENTS
EFFECT OF THIOUREAS ON CORROSION OF MILD STEEL IN AQUEOUS MEDIA 67-08 M18-75642
ORGANIC COMPOUNDS, DIFFUSION EFFECTS
THE EFFECT OF ORGANIC SUBSTANCES UPON THE ABSORPTION OF CATHODICALLY PRODUCED HYDROGEN BY IRON IN ELECTROLYTE SOLUTIONS 67-12 M14-82426
ORGANIC COMPOUNDS, SORPTION
THE KINETICS OF PROPANE ADSORPTION ON PLATINUM IN HYDROFLUORIC ACID 67-10 M15-79961
ORGANOMETALLICS
SEE METALORGANIC COMPOUNDS
ORIENTATION
SEE ALSO GRAIN ORIENTATION
PREFERRED ORIENTATION
CALCULATION OF THE SPECIFIC SURFACE ENERGIES OF CRYSTAL PLANES BY INVESTIGATING THE ORIENTATION OF CRYSTAL NUCLEI ON INERT SUBSTRATES 67-07 M15-72951
A DEVICE FOR THE CONTINUOUS DETERMINATION OF THE CRYSTALLOGRAPHIC ORIENTATION OF FILIFORM SINGLE CRYSTALS 67-07 M19-73894
THE MOST PROBABLE GRAIN JOINTS IN THE BRAGG SOAP BUBBLE LATTICE 67-11 M13-80152
ORTHORHOMBIC LATTICE
THE CRYSTALLINE STRUCTURE OF V2C 67-04 M16-66912
PHASE TRANSITIONS IN TEO4 AT HIGH PRESSURES 67-06 M14-70049
A FAMILY OF CAL2S4 COMPOUND FORMED BY RARE EARTH ELEMENTS BETWEEN HO AND LU 67-10 M14-79714
THE MOO3-CUO SYSTEM 67-12 M13-82139
ORTHORHOMBIC LATTICE, PHASE TRANSFORMATIONS
STUDIES IN SOLID STATE CHEMISTRY. PT. 1. ON A SOLID-STATE MECHANISM FOR THE POLYMORPHIC TRANSFORMATION OF ORTHORHOMBIC TO TETRAGONAL PBO 67-07 M14-73637
OSCILLATIONS
SURFACE PLASMA OSCILLATIONS AS A TOOL FOR SURFACE EXAMINATIONS 67-10 M13-79557
PLASMA OSCILLATION IN AL-4. 12 PER CENT CU ALLOY 67-10 M16-78720
OSCILLATORS
THE FABRICATION OF GUNN EFFECT DEVICES 67-07 M16-72924
AN ASSESSMENT OF EPITAXIAL GALLIUM ARSENIDE FOR USE IN GUNN EFFECT DEVICES 67-07 M16-72925
GAAS BULK OSCILLATORS STIR MILLIMETER WAVES 67-09 M16-76641
CAVITATION DAMAGE PATTERNS WITH MAGNETOSTRICTIVE OSCILLATORS 67-09 M18-76662
OSCILLATORS, FABRICATION
THE USE OF AIRBRASION IN THE CONSTRUCTION OF GUNN DIODES 67-07 M16-72926
OSM PROCESS

SEE OXYGEN STEEL MAKING
OSMIUM, BINARY SYSTEMS
THE VANADIUM-OSMIUM ALLOYS 67-01 M13-57293
OSMIUM, ELECTRICAL PROPERTIES
THE THERMAL CONDUCTIVITY AND ELECTRICAL RESISTIVITY OF POLYCRYSTALLINE METALS OF THE PLATINUM GROUP AND OF SINGLE CRYSTALS OF RUTHENIUM 67-05 M15-68210
OSMIUM, INTERMETALLICS
LAVES PHASES OF THE SCANDIUM GROUP ELEMENTS WITH RUTHENIUM, RHODIUM, OSMIUM, IRIDIUM, AND PLATINUM 67-02 M13-59443
OSMIUM, MAGNETIC PROPERTIES
MEASUREMENT OF THE SPECIFIC MAGNETIC SUSCEPTIBILITY OF OS BETWEEN 80 AND 1850 K. BY AN IMPROVED FARADAY METHOD 67-08 M15-75645
OSMIUM, TERNARY SYSTEMS
INTERMEDIATE PHASES IN ALLOYS OF TITANIUM WITH IRIDIUM, RHODIUM, AND OSMIUM 67-07 M13-73277
OSMIUM BASE ALLOYS, CRYSTAL LATTICES
LATTICE PARAMETERS OF SOME H. C. P. BINARY ALLOYS OF RHENIUM AND OSMIUM-- RE-W, RE-IR, RE-PT, OS-IR, OS-PT 67-05 M13-68222
OSMIUM COMPOUNDS, CRYSTAL LATTICES
CHALCOGENIDES OF THE TRANSITION ELEMENTS. PT. 5. CRYSTAL STRUCTURES OF THE DISULFIDES AND DITELLURIDES OF RUTHENIUM AND OSMIUM 67-09 M13-76446
OUTGASSING
THE EFFECT OF VACUUM OUTGASSING TIME ON THE FATIGUE BEHAVIOR OF TWO STRUCTURAL ALUMINUM ALLOYS . . 67-02 M17-60625
OVERAGING
ON THE CHANGE OF INTERNAL FRICTION DURING THE HIGH-TEMPERATURE AGING OF CU-FE ALLOYS 67-05 M17-69859
AGE SOFTENING 67-06 M17-70446
THE TENSILE DEFORMATION OF OVERAGED COPPER-1.8 WT. PER CENT BERYLLIUM SINGLE CRYSTALS 67-06 M17-72230
OVERHAULING
SEE MAINTENANCE
OVERHEATING
THE CONSEQUENCES OF OVERHEATING ON THE PROPERTIES OF GRAY IRONS 67-01 M06-58120
CHANGE IN FRACTURE STRUCTURE AND IMPACT STRENGTH OF 3KH13N7S2 STEEL AS A RESULT OF OVERHEATING DURING HOT PRESSWORKING AND HEAT TREATMENT 67-10 M17-79326
OXIDANTS
SEE OXIDIZING AGENTS
OXIDATION
SEE ALSO INTERNAL OXIDATION
OXIDATION PROCESSES DURING AUTOMATIC BUILDING-UP OF STEELS WITH A COOLING LIQUID 67-01 M12-57527
ON THE ORGIN AND IDENTITY OF THE OXIDE PLATELETS OBSERVED IN TANTALUM AFTER OXIDATION 67-01 M14-57426
INVESTIGATION OF THE POSSIBILITIES OF USING WROUGHT ALUMINUM ALLOYS, ESPECIALLY OF THE TYPE ALZNMGCU, FOR SPRINGS SUBJECTED TO BENDING AND TORSIONAL STRESSES. PT. 2 67-01 M17-58224
HIGH TEMPERATURE OXIDATION OF MILD STEELS CONTAINING ARSENIC AND TIN AS TRAMP ELEMENTS 67-01 M18-57491
OXIDATION OF LOWER TUNGSTEN AND MOLYBDENUM SILICIDES 67-01 M18-57651
SOME CHARACTERISTICS OF THE MECHANISM OF OXIDATION OF TITANIUM AND ZIRCONIUM 67-01 M18-58045
OXIDATION OF CHROMIUM-NICKEL STEEL IN SULFUR GAS AT HIGH TEMPERATURES 67-01 M18-58077
STRUCTURE AND GROWTH OF THIN OXIDE FILMS ON METALS IN CONTACT WITH OXYGEN 67-01 M18-58702
APPLICATIONS OF REFRACTORY METALS IN INDUSTRIAL FUR 67-01 M20-58451
MEASUREMENTS OF OXIDATION-REDUCTION RATE OF IRON AND OF OXYGEN PRESSURE IN OXIDE MELTS 67-02 M04-59152
OXIDATION OF MOLTEN IRON ALLOYS WITH ATMOSPHERE 67-02 M04-59153
ACCUMULATION OF OXIDES IN ALUMINUM DURING MELTING AND CASTING 67-02 M06-61238
HEATING OF POROUS BODIES DURING OXIDATION 67-02 M09-61707
THE OXIDATION RESISTANCE OF ALLOYS OF ZIRCONIUM BORIDE WITH MOLYBDENUM DISILICIDE 67-02 M09-62212
THE BULK ELECTROPLATING OF SMALL PRODUCTS OF FERROUS POWDER METALLURGY 67-02 M12-60031
PROCESSES MODIFYING THE PROPERTIES OF TOOL SURFACES 67-02 M12-60865
OXIDATION PROCESSES IN THE AUTOMATIC HARDFACING OF STEELS UNDER A COOLING LIQUID 67-02 M12-61146
STRUCTURAL FEATURES OF THE HAEMATITE OF IRON SCALE RELATED TO THE CONDITIONS UNDER WHICH IT WAS FORMED 67-02 M13-61924
THE EFFECT OF ANODIC FILMS ON THE GASEOUS OXIDATION OF TANTALUM 67-02 M14-59450
PRODUCTS OF DISTILLED WATER OXIDATION OF GALENITE 67-02 M14-60088
SPECIAL KINETIC FEATURES OF ZINC SULFIDE OXIDATION 67-02 M14-60089
RATE OF OXIDATION OF DIVALENT IRON IN SLAG BY GASEOUS OXYGEN 67-02 M14-60728
ON THE FORMATION KINETICS OF CONTINUAL LAYERS OF FERROUS OXIDE AT HIGH TEMPERATURES AND UNDER LOW-OXYGEN PRESSURE 67-02 M14-60824
BEHAVIOR OF SELENIUM IN THE PROCESSES OF OXIDIZING LEAD SELENIDE AND PBS-PBSE SOLID SOLUTIONS 67-02 M14-61716
OXIDATION OF COPPER SINGLE CRYSTALS IN AQUEOUS SOLUTIONS OF INORGANIC SALTS. PT. 4. EFFECT OF PH ON OXIDE TOPOGRAPHY IN CUSO4 AND CU--OAC--2 SOLUTIONS 67-02 M14-61762
THE PART PLAYED BY NUCLEATION IN REACTIONS BETWEEN GASES AND METALS 67-02 M14-62007
THE EPITAXIAL RELATIONSHIPS OF NUCLEI OF FE2SIO4, FORMED AT THE SITES ON IRON 67-02 M14-62251
ELECTROCHEMISTRY OF SURFACE OXIDES 67-02 M15-59449
THE MECHANISM OF IRON OXIDATION 67-02 M18-59940
INVESTIGATION OF THE KINETICS OF OXIDATION OF MOLYBDENUM DISILICIDE FROM 1500 TO 1800 C 67-02 M18-59946
KINETICS AND ACTIVATION ENERGY OF OXIDATION OF ALLOYS IN THE NB-V-TI SYSTEM 67-02 M18-60099
OBSERVATION OF LOW TEMPERATURE OXIDATION PROCESS OF PURE COPPER BY 0.6 MICRON MONOCHROMATIC LIGHT 67-02 M18-60271
THE EFFECTIVENESS OF SPRAYED CERAMIC FILMS AS A PROTECTION AGAINST OXIDATION OF STEEL 67-02 M18-60282
EFFECT OF HEAT TREATMENTS INVOLVING HEATING THROUGH THE CRITICAL TEMPERATURE RANGE ON THE SUBSEQUENT SCALING AND GROWTH PROPERTIES OF FLAKE GRAPHITE CAST IRONS AT 400 AND 500 C 67-02 M18-60526
OXIDATION OF A NICKEL ALLOY IN AN ATMOSPHERE CONTAINING SULPHUR 67-02 M18-61179
HIGH-TEMPERATURE OXIDATION OF NICKEL-SILICON-ALUMINIUM ALLOYS 67-02 M18-61668
THE MECHANISM OF METAL OXIDATION AT HIGH TEMPERATURES 67-02 M18-62008
THE INFLUENCE OF WATER VAPOR AND CARBON DIOXIDE ON THE OXIDATION OF IRON AND IRON ALLOYS AT HIGH TEMPERATURES 67-02 M18-62010
SCALING RATE OF PURE IRON AND MILD STEEL IN OXYGEN, WATER VAPOR AND CARBON DIOXIDE AT TEMPERATURES RANGING FROM 850 TO 1000 C 67-02 M18-62011
EFFECT ON IRON OF COMBUSTION GASES OF CONVENTIONAL GASEOUS FUELS 67-02 M18-62018
A SUPERFICIAL ASPECT PRESENTED BY ZIRCONIUM ANNEALED IN THE BETA PHASE 67-02 M18-62297
ELECTRON DIFFRACTION ANALYSIS OF THE OXIDE LAYER ON V2A STAINLESS STEEL 67-03 M13-65124
SCHOTTKY EMISSION AS A RATE-LIMITING FACTOR IN THERMAL OXIDATION OF METALS 67-03 M14-65025
THE EFFECTS OF CRYSTALLOGRAPHIC ORIENTATION AND OXYGEN PRESSURE ON THE OXIDATION OF IRON 67-03 M14-65422
THE FREE ENERGY OF FORMATION OF PALLADIUM OXIDE 67-03 M14-65426
THE RELATIONSHIP BETWEEN THE DIRECTIONS OF THE GROWTH OF SURFACE RUST ON IRON AND THE ORIENTATION OF THE METAL 67-03 M18-65321
THE KINETICS OF OXIDATION OF PLUTONIUM METAL AND A PLUTONIUM-3.4 AT. PER CENT ALUMINUM ALLOY AT TEMPERATURES FROM 140 TO 550 C 67-03 M18-65420
FREE ENERGY OF FORMATION OF CUPRIC OXIDE 67-03 M18-65421
ELLIPSOMETRIC-POTENTIOSTATIC STUDIES OF IRON PASSIVITY. PT. 1. ANODIC FILM GROWTH IN SLIGHTLY BASIC SOLUTIONS 67-03 M18-65423
OXIDATION AND SULFIDATION CORROSION OF NICKEL BASE SUPERALLOYS 67-03 M18-65619

COATED COLUMBIUM ALLOYS FOR JET ENGINE TURBINE VANES 67-03 M18-65621
THE OXIDATION OF TUNGSTEN AT HIGH TEMPERATURES. THE SYSTEM W PLUS CO2 67-03 M18-65676
OXIDIZING CERIUM PRODUCED BY ZONE MELTING 67-03 M18-65800
OXIDATION OF METALS 67-03 M18-65947
INFLUENCE OF FLUXES UPON THE MINERAL CONSTITUENTS AND PHYSICAL PROPERTIES OF IRON ORE SINTER 67-04 M02-66297
ACCUMULATION OF OXIDES IN ALUMINUM DURING MELTING AND POURING 67-04 M06-68099
OXIDE GROWTH IN AN AL-AL2O3 SAP-TYPE ALLOY BY HOT STAGE TRANSMISSION ELECTRON MICROSCOPY 67-04 M14-66058
ELECTRON MICROSCOPIC OBSERVATION ON HEAT OXIDATION OF VACUUM-DEPOSITED ALUMINIUM FILMS 67-04 M14-66998
STRESS MEASUREMENTS DURING THE OXIDATION OF TANTALUM AND NIOBIUM 67-04 M17-66067
NATURE AND MECHANISM OF FORMATION OF OXIDE FILMS IN THE CHROMIUM-IRON-CARBON SYSTEM 67-04 M18-66578
HIGH-TEMPERATURE OXIDATION OF THIN MAGNESIUM FILMS 67-04 M18-66668
HIGH TEMPERATURE OXIDATION OF METALS 67-04 M18-67162
LOCAL CORROSION OF THE ANODE IN THE LOW TEMPERATURE HARD ANODIZING PROCESS OF ALUMINUM 67-04 M18-67594
DETERMINING THE TRUE SURFACE VALUE OF ZN, CD AND MG VACUUM CONDENSATES IN THE PROCESS OF OXIDATION 67-04 M18-67654
THE MECHANISM OF THE HIGH-TEMPERATURE OXIDATION OF NI 67-04 M18-67920
MICROANALYSIS OF OXIDIZED MOLTEN IRON ALLOYS 67-04 M19-67269
PRE-OXIDATION OF ILMENITE ORES AND ITS BEARING ON THEIR SOLID-STATE REDUCTION BY HYDROGEN 67-05 M03-68475
RELATIONSHIP BETWEEN OXIDIZABILITY AND ELECTROCHEMICAL BEHAVIOR OF CARBON ATOMS DURING THE ELECTROLYSIS OF ALUMINUM 67-05 M03-68960
THE OXIDATION OF CHROMIUM DIFFUSION COATINGS ON IRON-- CHROMIUM VOLATILITY AND EXPERIMENTAL TECHNIQUES 67-05 M12-68639
GERMANIUM OXIDATION IN NITRIC ACID 67-05 M14-68625
STRUCTURE OF THE OXIDES OF TANTALUM 67-05 M14-69290
REACTIONS OF OXYGEN WITH THE PLATINUM METALS. PT. 3. THE OXIDATION OF PALLADIUM 67-05 M14-69718
NUCLEATION IN METAL OXIDATIONS AND RELATED REACTIONS 67-05 M14-69723
ON THE OXIDATION AND REMOVAL BY DIFFUSION OF MG IN AL AND AL-MG ALLOYS 67-05 M15-68757
MAGNETIC SUSCEPTIBILITY CHANGES IN SILVER POWDERS DURING OXIDATION-REDUCTION CYCLING 67-05 M15-69032
EFFECTS OF PREOXIDATION TREATMENT ON MOS TRANSISTOR CHARACTERISTICS 67-05 M16-69299
PROPERTIES OF IRIDIUM AT HIGH TEMPERATURES-- RESISTANCE TO CREEP AND OXIDATION 67-05 M17-69733
EPITAXIAL OXIDATION OF ZIRCONIUM AT VARIOUS TEMPERATURES 67-05 M18-68212
OXIDE GROWTH AND CAPACITANCE ON PREIRRADIATED ZIRCALOY-2 AND ZIRCONIUM 67-05 M18-68617
THE OXIDATION OF PURE U IN CO2 BETWEEN 700 AND 1000 C 67-05 M18-68637
EFFECT OF COLD WORK ON THE OXIDATION OF FE-CR ALLOYS IN WATER VAPOUR AT 600 C 67-05 M18-68638
CHEMISORPTION AND OXIDATION--OXYGEN ON TUNGSTEN 67-05 M18-68746
THE PART PLAYED BY NITROGEN IN THE OXIDATION OF TITANIUM IN AIR AT HIGH TEMPERATURES 67-05 M18-69052
THE TRANSITION FROM THE LINEAR TO THE PARABOLIC RATE LAW FOR THE OXIDATION OF A METAL TO AN OXIDE WITH A METAL DEFICIT 67-05 M18-69149
REACTIONS OF OXYGEN WITH THE PLATINUM METALS. PT. 2. OXIDATION OF RUTHENIUM, RHODIUM, IRIDIUM AND OSMIUM 67-05 M18-69284
THERMAL OXIDATION OF SILICON.. GROWTH MECHANISM AND INTERFACE PROPERTIES 67-05 M18-69778
OXIDATION OF STEEL DURING HIGH-SPEED HEATING 67-06 M10-70740
OXIDATION OF TANTALUM COATED WITH ALUMINUM AND ALUMINUM-CHROMIUM ALLOYS 67-06 M12-70796
SELF-DIFFUSION OF OXYGEN IN Y2O3 AND ER2O3 67-06 M14-71167
ELECTRON MICROSCOPIC OBSERVATION OF OXIDES FORMED ON THIN FILM OF COPPER AT ELEVATED TEMPERATURE 67-06 M14-71544
KINETICS OF THE ATTACK OF HIGH-TEMPERATURE MOLYBDENUM AND TUNGSTEN BY ATOMIC OXYGEN 67-06 M14-72165
ANODIC OXIDE GROWTH BEHAVIOR ON SILICON 67-06 M16-72177
FURTHER OBSERVATIONS ON THE OXIDATION OF ZIRCONIUM IN DRY OXYGEN 67-06 M18-70661
OXIDATION OF ZIRCALOY-2 AT 600 TO 800 C 67-06 M18-70782
THE CORROSION OF 1100 ALUMINUM IN WATER FROM 50 TO 95 C 67-06 M18-72169
OXIDE FILM GROWTH OVER FIVE YEARS ON SOME ALUMINUM SHEET ALLOYS IN AIR OF VARYING HUMIDITY AT ROOM TEMPERATURE 67-06 M18-72170
KINETICS OF TANTALUM CORROSION IN AQUEOUS ELECTROLYTES 67-06 M18-72172
MELTING LOSSES IN STEELMAKING PROCESSES 67-07 M04-72563
POROSITY EFFECTS ON THE OXIDATION OF TUNGSTEN 67-07 M14-72653
CARBURIZATION OF FE-CR ALLOYS DURING OXIDATION IN DRY CARBON DIOXIDE 67-07 M14-73450
THE OXIDATION OF URANIUM-BASED CERAMICS, THE BEHAVIOR OF UC AND OF UC2 CONTAMINATED WITH CARBON CONTAINING PHASES 67-07 M14-74232
HIGH TEMPERATURE BEHAVIOR OF IRIDIUM-RHODIUM ALLOYS 67-07 M18-72544
THE OXIDATION MECHANISM OF IRON 67-07 M18-72595
THE INFLUENCE OF OXIDE GRAIN BOUNDARIES ON DIFFUSION-CONTROLLED OXIDATION 67-07 M18-72766
KINETICS OF TANTALUM CORROSION IN AQUEOUS ELECTROLYTES. PT. 2 67-07 M18-73457
CORROSION BEHAVIOR 67-07 M18-73685
THE ELECTROCHEMICAL PARAMETERS OF STAINLESS STEEL PASSIVATION BY SOME REVERSIBLE REDOX-SYSTEMS 67-07 M18-73700
OXIDATION PROTECTION OF BERYLLIUM AT HIGH TEMPERATURES 67-07 M18-73752
THE PREPARATION AND STRUCTURE OF ZRO2 SPHERES 67-08 M01-75993
REOXIDATION AND PRECIPITATION PROCESSES IN THE CASTING OF FULLY KILLED UNALLOYED STEELS 67-08 M06-75509
SPONTANEOUS HEATING OF POROUS MATERIALS DURING OXIDATION 67-08 M09-75852
THINGS YOU SHOULD KNOW ABOUT THOSE BRAZING FLUXES 67-08 M11-75527
THE OXIDATION OF VACUUM DEPOSITED THIN FILMS IN A JET STREAM OF O2 67-08 M12-75179
FORMATION AND DEGRADATION MECHANISMS OF ALUMINIDE COATINGS ON NICKEL-BASE SUPERALLOYS 67-08 M14-75978
OXIDATION DATA FOR MOS2, WS2, WSE2, TAS2 AND TASE2 BY THERMOGRAVIMETRIC ANALYSIS 67-08 M14-76196
CATALYTIC ACTIVITY OF STAINLESS STEEL TUBES 67-08 M14-76294
ELECTROKINETIC STUDIES ON OXIDIZED ALUMINUM SURFACES 67-08 M18-74788
HIGH-TEMPERATURE OXIDATION OF HOT ROLLED ELECTRIC STEELS. PT. 1. ELECTRICAL STEEL 67-08 M18-75260
SCALE FORMATION ON STEEL AT TEMPERATURES OF INTEREST IN HOT WORKING 67-08 M18-75517
STUDY OF OXIDATION IN HF-TI ALLOYS 67-08 M18-75898
KINETICS OF OXIDATION OF TE 67-08 M18-75903
EFFECT OF TEMPERATURE AND OXYGEN PARTIAL PRESSURE PRESSURE ON THE OXIDATION OF TITANIUM CARBIDE 67-08 M18-76092
OXIDATION OF THIN FILMS OF IRON 67-08 M18-76227
THE APPLICATION OF A GLANCING-ANGLE X-RAY DIFFRACTION FILM TECHNIQUE TO THE STUDY OF THE LOW-TEMPERATURE OXIDATION OF FE-CR ALLOYS 67-08 M18-76252
THE OXIDATION CONDITIONS OF GOLD CONTAINING ARSENICAL PYRITES 67-09 M02-76948
THE OXIDIZING PROCESSES INVOLVED IN BLOWING VANADIUM IRONS IN THE OXYGEN CONVERTER

67-09 M04-77067
BEHAVIOR OF HIGH-FIRED BASIC BRICK IN SPRUNG ARCHES
67-09 M05-76455
REHEATING STEEL BY TURNING OVER IN FORGING FURNACES. PT. 1
67-09 M07-78300
OXIDATION AND DECARBURIZATION OF STEEL WHEN ANNEALING IN A PROTECTIVE ATMOSPHERE OF PSO-09 GAS
67-09 M10-77641
CONTRIBUTION TO THE STUDY OF THE PHENOMENA OCCURRING DURING THE OXIDATION OF A STEEL BATH
67-09 M14-76379
INFLUENCE OF SURFACE TREATMENT ON THE OXIDATION KINETICS OF CALCIUM
67-09 M14-76457
ELECTRON MICROSCOPE OBSERVATIONS ON THE OXIDATION OF ZIRCONIUM. A CONTRIBUTION TO THE CUBIC KINETIC THEORY
67-09 M14-76513
STRUCTURE AND GROWTH OF THIN FILMS ON METALS EXPOSED TO OXYGEN
67-09 M14-76645
EFFECT OF A MECHANICAL ACTIVATION OF THE SURFACE OF STEEL SHEETS ON THEIR CHEMICAL REACTIVITY
67-09 M14-77852
BEHAVIOR OF ULTRATHIN ZIRCONIUM FILMS UPON EXPOSURE TO OXYGEN
67-09 M16-77446
SOME OBSERVATIONS ON THE OXIDATION OF UNALLOYED AND DELTA-STABILIZED PLUTONIUM METAL
67-09 M18-76334
OBSERVATIONS ON THE ATMOSPHERIC OXIDATION OF PLUTONIUM METAL
67-09 M18-76335
PLATINUM OXIDATION KINETICS WITH CONVECTIVE DIFFUSION AND SURFACE REACTION
67-09 M18-76622
HIGH-TEMPERATURES CORROSION AND SPECIMEN PREPARATION
67-09 M18-76650
REVIEW OF THE BASES AND METHODS OF LOW-SCALE HEATING
67-09 M18-76692
SPECIAL FEATURES OF THE KINETICS OF OXIDATION OF MANGANESE
67-09 M18-77043
INVESTIGATION OF THE ANODIC OXIDATION OF AL WITH RADIOACTIVE TRACERS IN H2SO4 ELECTROLYTES
67-09 M18-77207
OXIDATION OF YTTRIUM AT LOW PRESSURE
67-09 M18-77299
SIZE EFFECTS DURING OXIDATION AND SUBSEQUENT REDUCTION OF STEEL WIRE
67-09 M18-77355
ON THE FORMATION OF POLYMORPHIC OXIDE ON TITANIUM SURFACE
67-09 M18-77808
EFFECT OF HEATING SINGLE CRYSTAL COPPER IN H2 AND N2 ON THIN-FILM OXIDATION KINETICS
67-09 M18-77886
OXIDATION OF COPPER AND COPPER-GOLD ALLOYS IN CO2 AT 1000 C. PT. 1. LINEAR KINETICS
67-09 M18-77889
ON THE FORMATION OF POLYMORPHIC OXIDE ON THE TITANIUM SURFACE IN HIGH-TEMPERATURE WATER AND STEAM
67-09 M18-78217
INORGANIC CHEMISTRY. A GUIDE TO ADVANCED STUDY
67-10 M01-79615
ROASTING IN EXTRACTIVE METALLURGY--A THERMODYNAMIC AND KINETIC REVIEW
67-10 M02-79946
OXIDATION KINETICS OF TUNGSTEN CARBIDE
67-10 M03-79136
OXIDATION OF THE MAIN COMPONENTS OF A COPPER CHARGE
67-10 M03-80045
OXIDATION STUDIES OF MOLTEN IRON ALLOY DROPS
67-10 M04-78330
SOME ASPECTS OF CARBON AND SILICON OXIDATION IN BESSEMER CONVERSIONS
67-10 M04-79819
STABILITY OF COMMERCIAL SILICON NITRIDE WHEN HEATED IN AIR AND IN CARBON MONOXIDE
67-10 M05-79579
RAPID HEATING OF STEEL FOR HOT WORKING. PT. 1
67-10 M10-79087
INTERACTION OF CONTROLLED ATMOSPHERES WITH METALS
67-10 M10-79216
OXIDATION OF THE --112-- FACE OF TUNGSTEN
67-10 M13-79550
ADSORPTION OF OXYGEN ON TUNGSTEN AT TEMPERATURES FROM 300 TO 850 K
67-10 M14-78875
LEED STUDIES OF OXYGEN ABSORPTION AND OXIDE FORMATION ON AN --011-- IRON SURFACE
67-10 M14-79567
INVESTIGATION OF THE SURFACE REACTIONS ON COPPER BY SLOW ELECTRON DIFFRACTION METHOD. PT. 2
67-10 M14-79569
SIGMOID OXIDATION OF POWDERED ALPHA-TUNGSTEN SPECIMENS UNDER OXYGEN PRESSURE OF 10-1 TO 10-3 TORR
67-10 M14-79712
TRIBOCHEMICAL REACTIONS OF METALS WITH CARBON AND OXIDES OF CARBON
67-10 M14-79969
BREAKAWAY PHENOMENON DURING OXIDATION OF MILD STEEL
67-10 M18-78335
HIGH-TEMPERATURE OXIDATION OF TITANIUM
67-10 M18-78668
THE MECHANISM OF SCALE FORMATION ON METALS AND BINARY ALLOYS
67-10 M18-79096
INVESTIGATION OF HIGH-TEMPERATURE OXIDATION OF
67-10 M18-79345
SURFACE OXIDATION OF TUNGSTEN AT ROOM TEMPERATURE
67-10 M18-79575
THE POSSIBILITY OF OXIDE FORMATION ON THE TUNGSTEN SURFACE AT ROOM TEMPERATURE
67-10 M18-79577
A STUDY OF SURFACE OXIDATION OF IRON-CHROMIUM MELTS
67-10 M18-79716
THE HIGH-TEMPERATURE OXIDATION OF FE-CR ALLOYS IN THE COMPOSITION RANGE OF 25-95 PER CENT CR
67-10 M18-79963
PLASTIC DEFORMATION OF ZIRCONIUM DURING OXIDATION
67-10 M18-79985
OXIDATION AND ELIMINATION OF CARBON DURING ANNEALING IN A PSO-09 PROTECTIVE ATMOSPHERE
67-11 M10-80929
NUCLEATION AND GROWTH OF THE OXIDE FORMED BY GRADED OXIDATION OF ALUMINIUM
67-11 M14-80352
OXIDATION BEHAVIOR OF MIXED FE AND MN PROTOXIDES AND THEIR LACUNAR STRUCTURE
67-11 M14-80357
URANIUM METAL AND ALLOYS
67-11 M14-80460
THE OXIDATION OF FE AND LOW-ALLOYED HEAT RESISTANT STEELS IN CO ATMOSPHERES AT 500 AND 550 C
67-11 M18-80353
FUNDAMENTAL ASPECTS OF THE OXIDATION OF ZR IN CARBONIC GAS
67-11 M18-80354
THE KINETICS OF THE OXIDATION PROCESS IN NICKEL-CHROMIUM-BASE ALLOYS
67-11 M18-80360
INVESTIGATION OF THE ELECTROCHEMICAL BEHAVIOR OF MANGANESE AND NICKEL ON A MERCURY ELECTRODE
67-11 M18-80445
FUEL-WATER REACTIONS
67-11 M18-80464
GRAIN BOUNDARY OXIDATION AND THE CHROMIUM-DEPLETION THEORY OF INTERCRYSTALLINE CORROSION OF AUSTENITIC STAINLESS STEELS
67-11 M18-80708
NOTE ON THE PROLONGED OXIDATION OF AN FE-25 PER CENT CR ALLOY AT 950 C. IN OXYGEN
67-11 M18-80714
COMPOSITIONAL CHANGES IN THE UNDERLYING ALLOY DURING THE PROTECTIVE OXIDATION OF ALLOYS
67-11 M18-81587
INFLUENCE OF OXIDATION ON THE FLOTATION OF COMPLEX CU-ZN IRON SULPHIDE ORES
67-12 M02-81732
INVESTIGATION OF THE OXIDATION KINETICS OF ZINC SULPHIDE IN THE REGION OF THE POLYMORPHIC TRANSFORMATION OF SPHALERITE INTO WURTZITE
67-12 M02-82405
STUDIES ON THE MECHANISM AND KINETICS OF THE OXIDATION OF COPPER SULFIDE. PT. 2. OXIDATION OF COPPER SULFIDE MIXED WITH ALUMINA IN A FLUIDIZED BED
67-12 M02-82943
STUDIES ON THE MECHANISM AND KINETICS OF THE OXIDATION OF COPPER SULFIDE. PT. 1. OXIDATION OF COPPER SULFIDE IN A FIXED BED
67-12 M02-83000
OXIDATION OF POWDER SPECIMENS OF ZIRCONIUM MONOCARBIDE FROM 450 TO 700 C. UNDER OXYGEN PRESSURES OF 10-3 TO 100 TORR
67-12 M03-83153
THE AIR OXIDATION OF LOW-CARBON RIMMING STEEL DURING THE RIMMING PERIOD
67-12 M04-81743
GRAPHICAL CALCULATION OF THE CHARGE COMPOSITION OF MULTICOMPONENT SINTERED MATERIALS
67-12 M09-82201
EXAMINATION OF THE OXIDE FILMS ON IRON-CHROMIUM MELTS
67-12 M13-82149
THE OXIDATION MECHANISM OF PURE URANIUM IN CARBON MONOXIDE BETWEEN 700 AND 1000 C
67-12 M14-81828
THE OBSERVATION OF MARKERS DURING THE OXIDATION OF COLUMBIUM
67-12 M14-82749
TEMPERATURE DEPENDENCE OF THE FERROMAGNETIC RESONANCE LINEWIDTH IN THIN NI-FE FILMS
67-12 M15-82366
MASS BEHAVIOR IN THE OXIDATION OF TANTALUM
67-12 M15-83230
OXIDATION OF EVAPORATED ZINC FILM
67-12 M15-83549
ON THE FACTORS WHICH INFLUENCE THE ABRASION OF CARBON STEELS AT HIGH TEMPERATURES, AND COMPARISON OF THE ABRADED APPEARANCE AT HIGH TEMPERATURE WITH THAT OF ROOM TEMPERATURE. PT.

OXIDATION

2. RESEARCH ON THE ABRASION OF STEEL DURING WARM DEFORMATION 67-12 M17-83390
STUDY OF OXIDATION OF IRON-CARBON ALLOYS 67-12 M18-82446
RELATION BETWEEN OXIDATION AND DECARBURIZATION OF CAST IRON 67-12 M18-82450
POTENTIODYNAMIC STUDY OF IRON AND PLATINUM IN MOLTEN ALKALI METAL NITRATES 67-12 M18-83150
RESEARCH INTO REACTIONAL DIFFUSION IN METAL-COMPLEX GAS SYSTEMS. PT. 9. OXIDATION OF ZIRCONIUM IN AN ATMOSPHERE CONTAINING NITROGEN 67-12 M18-83301

OXIDATION, ALLOYING EFFECTS
BOOSTING LIGHT METAL PROPERTIES WITH BERYLLIUM 67-06 M01-71010
EFFECT OF SILICON, BORON AND CALCIUM ON OXIDATION OF LIQUID IRON-CHROMIUM ALLOYS 67-08 M18-75870
DRY CORROSION OF COBALT-CHROMIUM ALLOYS AT HIGH TEMPERATURE--INFLUENCE OF TERNARY ADDITIONS 67-08 M18-75986
EFFECT OF NI ON LOW NI-CR CAST IRON 67-09 M01-77248
MECHANISM OF CORROSION OF FUEL ALLOYS 67-09 M18-77318
EFFECT OF ALLOYING ELEMENTS ON THE ANODIC OXIDATION OF ALUMINUM 67-09 M18-78060
HIGH TEMPERATURE OXIDATION OF MILD STEELS CONTAINING ARSENIC AND TIN AS TRAMP ELEMENTS 67-09 M18-78133
EFFECTS OF RARE EARTH ELEMENTS ON HIGH-TEMPERATURE OXIDATION BEHAVIOR OF FE-18 PER CENT CR ALLOYS CONTAINING SILICON 67-09 M18-78218
CORROSION RESISTANCE AT HIGH TEMPERATURES. PT. 18 67-10 M18-78398
REACTION OF TUNGSTEN-COBALT ALLOYS WITH OXYGEN AT 1000 AND 1100 K 67-10 M18-78637

OXIDATION, ANISOTROPY
EXCHANGE ANISOTROPY IN OXIDIZED PERMALLOY THIN FILMS AT LOW TEMPERATURES 67-12 M15-82371

OXIDATION, COMPOSITION EFFECTS
HIGH-TEMPERATURE OXIDATION MECHANISM IN 2.5 PER CENT TIN-ZIRCONIUM ALLOY 67-01 M18-58745
PROPERTIES OF IODIDE-TYPE HAFNIUM AND ALLOYS IN THE ZIRCONIUM-HAFNIUM SYSTEM 67-10 M17-79628

OXIDATION, DIFFUSION EFFECTS
THE MECHANISM OF TRANSPORT OF MATTER THROUGH THE SCALES DURING OXIDATION OF METALS AND ALLOYS 67-05 M18-69706
KINETIC STUDY OF HIGH-TEMPERATURE OXIDATION OF HF 67-08 M14-75295

OXIDATION, HEATING EFFECTS
OXIDATION OF U409 DURING HEATING IN AIR 67-09 M14-77124
INFLUENCE OF ANNEALING CONDITIONS OF COLD ROLLED STAINLESS STEEL --18-8-- IN OXIDIZING ATMOSPHERE UPON THE SURFACE CONTENT OF FE, CR, NI AND MN, AND UPON THE SCOURABILITY OF THE OXIDE 67-11 M18-80358

OXIDATION, PRESSURE EFFECTS
INFLUENCE OF OXYGEN PRESSURE ON THE PROCESS OF REACTION OF NICKEL WITH THIS GAS AT HIGH TEMPERATURES 67-12 M18-81811

OXIDATION, RADIATION EFFECTS
EFFECTS OF NEUTRON IRRADIATION AND VACUUM ANNEALING ON OXIDE FILMS ON ZIRCONIUM 67-02 M16-59025
EFFECTS OF RADIATION ON THE OXIDATION AND HYDROGEN ABSORPTION OF ZIRCONIUM ALLOYS IN STEAM 67-02 M18-59024
THE EFFECT OF FISSION FRAGMENT IRRADIATION UPON THE OXIDATION OF A 20 WT PER CENT CR, 25 WT PER CENT NI, NB STABILIZED STAINLESS STEEL BY OXYGEN AT 650 C 67-04 M18-67452

OXIDATION, TEMPERATURE EFFECTS
HIGH-TEMPERATURE OXIDATION. PT. 3. ZIRCONIUM AND HFANIUM DIBORIDES 67-02 M14-61768
THE KINETICS OF THE OXIDATION OF AL IN OXYGEN AT HIGH TEMPERATURE 67-05 M18-69703
STUDIES ON THE OXIDATION OF FE-AL ALLOYS IN CARBON DIOXIDE AT HIGH-TEMPERATURES. PT. 1 67-06 M18-70793
RATE-CONTROLLING PROCESSES IN THE HIGH-TEMPERATURE OXIDATION OF TANTALUM 67-07 M14-73449
THE HIGH-TEMPERATURE OXIDATION OF TANTALUM SINGLE CRYSTALS 67-07 M18-73405
THE OXIDATION OF VANADIUM IN THE TEMPERATURE RANGE 700 TO 1000 C.--THE NONLINEAR RATE LAW 67-07 M18-73406
ON THE EFFECT OF COLD WORK ON THE OXIDATION OF IRON FROM 400 TO 650 C 67-11 M18-80715
OXIDATION MECHANISMS FOR NI-AL ALLOYS AT TEMPERATURES BETWEEN 900 AND 1300 C 67-12 M18-82742

OXIDATION POTENTIAL
SEE ELECTRODE POTENTIALS

OXIDATION RATE
SEE OXIDATION RESISTANCE

OXIDATION REDUCTION POTENTIAL
SEE ELECTRODE POTENTIALS

OXIDATION RESISTANCE
DISPERSION-STRENGTHENED COBALT ALLOYS 67-01 M14-58646
OXIDATION CHARACTERISTICS OF VAPOR-PLATED TUNGSTEN 67-01 M18-58514
EFFECT OF OXIDATION OF LIQUID STEEL ON ITS CASTING PROPERTIES 67-02 M06-59177
OXIDATION-RESISTANT COATINGS FOR REFRACTORY METALS 67-02 M12-61902
INVESTIGATION OF THE OXIDATION OF TUNGSTEN-NIOBIUM ALLOYS 67-02 M18-59895
THE CORROSION OF AUSTENITIC SUPERHEATER STEELS BY ALKALI SULFATE/ALKALI CHLORIDE MIXTURES IN AIR AND COMBUSTION GASES 67-02 M18-62023
CORROSION IN BLAST-FURNACE GAS TURBINES. CAUSES AND REMEDIES 67-02 M18-62025
OXIDATION MECHANISM OF ZIRCONIUM-COPPER ALLOYS IN CARBON DIOXIDE AT HIGH TEMPERATURES 67-02 M18-62191
REFRACTORY METALS--PROTECTION BY ALUMINIUM-TIN COATINGS 67-03 M12-65165
EXAMINATION OF FUEL AND CLADDING IN PWR-1 BLANKET RODS 67-03 M18-65019
PROBLEMS OF CORROSION OF BERYLLIUM IN CARBON DIOXIDE UNDER PRESSURE AT HIGH TEMPERATURES 67-03 M18-65259
COATING OF BOLTS TO PREVENT SEIZURE 67-03 M18-65986
REVIEW OF RECENT DEVELOPMENTS NICKEL-BASE AND COBALT-BASE ALLOYS 67-04 M01-67468
COMMERCIAL TESTING OF AN AUTOMATED FURNACE FOR NONSCALE HEATING OF METAL 67-04 M10-67622
THE RATE AT WHICH NIOBIUM-IRON AND NIOBIUM-COBALT ALLOYS ARE OXIDIZED AT HIGH TEMPERATURES 67-04 M18-66036
RETARDATION OF THE OXIDATION RATES OF NIOBIUM, TANTALUM AND TUNGSTEN BY FLUORIDE COATING 67-04 M18-66164
OXIDATION OF COBALT BETWEEN 800 AND 1100 67-04 M18-66190
OXIDATION OF BISMUTH 67-04 M18-66541
INFLUENCE OF BOOST GLIDE REENTRY VEHICLE ENVIRONMENT ON COATED AND BASE REFRACTORY METALS 67-04 M18-67214
HEAT RESISTANCE OF CHROMIUM AND CHROMIUM ALLOYS WITH ADDITIONS OF MGO 67-04 M18-67283
INTERNAL OXIDATION OF 3 PER CENT SI STEEL 67-04 M18-67284
COMPOUND KNIFE STEELS WITH WEAR-RESISTANT CUTTING EDGES 67-04 M20-66216
THE SPALLING OF CHROMIUM OXIDE ON AN FE-CR ALLOY 67-05 M18-68641
OXIDATION OF FE-TI ALLOYS IN CO-CO2 MIXTURES 67-05 M18-69472
CHROMIUM AND CHROMIUM ALLOYS 67-06 M17-71405
EVALUATION OF SILICIDE COATINGS ON COLUMBIUM AND TANTALUM AND A MEANS FOR IMPROVING THEIR OXIDATION RESISTANCE 67-06 M18-69926
OXIDATION-RESISTANT HARD MATERIALS 67-06 M18-70080
OXIDATION OF SOME BRONZES AND SILICON IRON IN WATER VAPORS 67-06 M18-70173
HIGH TEMPERATURE CORROSION AND EVAPORATION OF HAYNES 25 AND HASTELLOY X-280 67-06 M18-70483
PROTECTION OF COPPER BY DIFFUSION COATING WITH ALUMINUM 67-07 M12-74190
OXIDATION-RESISTANT COATINGS FOR REFRACTORY METALS 67-07 M12-74252
OXIDATION RESISTANCE OF ALLOYS BASED ON TUNGSTEN AND NIOBIUM SILICIDES 67-07 M15-73280
INTERNAL OXIDATION DURING CASE HARDENING OF STEELS IN ENDOTHERMIC ATMOSPHERES 67-07 M18-74176
COLUMBIUM AND TANTALUM ALLOY DEVELOPMENT 67-08 M01-74672
CORROSION-RESISTANT COATINGS BY PHYSICAL VAPOR PLATING 67-08 M12-76056
RESISTANCE OF HEATING ELEMENTS TO ATMOSPHERES CONTAINING CARBON 67-08 M18-74973

OXIDATION STUDIES OF COMPLEX SILICIDES FOR PROTECTIVE COATINGS 67-08 M18-75520
WEAR AND OXIDATION PHENOMENA ON THE END CUTTING EDGE OF CARBIDE TURNING TOOLS 67-08 M18-75574
SILICON OXYNITRIDE REFRACTORIES 67-09 M05-77966
OXIDATION OF POROUS BODIES 67-09 M09-76926
EFFECT OF MOLTEN STEEL OXIDATION ON ITS CASTING PROPERTIES 67-10 M06-78886
OXIDATION-RESISTANT COATINGS FOR REFRACTORY METALS 67-10 M12-79199
LOW-CARBON 713 LC ALLOY 67-10 M17-79934
IMPREGNATED TANTALUM CARBIDE 67-11 M05-80249
THE STRUCTURAL STABILITY, GROWTH AND SCALING PROPERTIES OF AUSTENITIC CAST IRONS AT TEMPERATURES UP TO 800 C 67-11 M17-80405
SOME PROPERTIES OF IRON POWDER PARTS, ALLOYED WITH 6 PER CENT CR 67-12 M09-83556
ELECTRODEPOSITION OF IRIDIUM FROM FUSED SODIUM CYANIDE AND AQUEOUS ELECTROLYTES. A PRELIMINARY STUDY 67-12 M12-81941
OXIDATION RESISTANT METALLIC COATINGS 67-12 M12-82608
INFLUENCE OF SURFACE CONDITION ON THE MECHANICAL PROPERTIES OF POLYCRYSTALLINE NIOBIUM 67-12 M17-83201
HIGH-ALLOYED CAST STEELS. THE PRESENT STATE AND DEVELOPMENT TRENDS 67-12 M17-83288
KINETICS OF THE OXIDATION OF TANTALUM BY WATER VAPOR 67-12 M18-82568
OXIDATION OF HF-TA ALLOYS 67-12 M18-82978
THE NATURE OF THE HEAT PROOF PROPERTIES OF CHROMIUM-MANGANESE STEEL 67-12 M18-83033
SCALE BLISTERS ON FERROUS ALLOYS 67-12 M18-83216
INFLUENCE OF SURFACE TREATMENT ON THE INITIAL STAGES OF OXIDATION OF A 20 PER CENT CR-35 PER CENT NI STAINLESS STEEL 67-12 M18-83217
OXIDATION OF NIOBIUM AND NIOBIUM COATED WITH ALUMINUM IN STEAM-AIR MIXTURES 67-12 M18-83219
OXIDATION RESISTANCE OF WC-NBC-CO ALLOYS IN AIR 67-12 M18-83561

OXIDATION RESISTANCE, ALLOYING EFFECTS
THE EFFECT OF NICKEL, SILICON AND NIOBIUM ON THE OXIDATION OF TITANIUM AT HIGH TEMPERATURES 67-02 M18-59785
THE HIGH-TEMPERATURE CORROSION RESISTANCE OF CHROMIUM ALLOYS WITH ZIRCONIUM 67-02 M18-59956
INFLUENCE OF MINOR ALLOY ELEMENTS ON STRUCTURE OF SURFACE OXIDES FORMED DURING HIGH-TEMPERATURE OXIDATION OF AN AUSTENITIC STEEL 67-04 M18-66733
EFFECT OF YTTRIUM ON THE OXIDATION OF MOLYBDENUM AT HIGH TEMPERATURES 67-05 M18-69250
A KINETIC AND MORPHOLOGICAL STUDY OF THE OXIDATION OF TI-CR ALLOYS IN CO2 AT 1000 C 67-05 M18-69704
PROPERTIES OF VANADIUM-BASE TUNGSTEN AND CHROMIUM ALLOYS 67-06 M17-71406
RESEARCH INTO THE OXIDATION OF NIOBIUM ALLOYED WITH VANADIUM, TITANIUM AND ZIRCONIUM 67-06 M18-70926
INFLUENCE OF ADDITIONS OF BERYLLIUM, THALLIUM, AND SILICON ON THE HEAT RESISTANCE AND ELECTRICAL AND MECHANICAL PROPERTIES OF SILVER 67-08 M15-74998
INFLUENCES OF THE ADDITIONAL ELEMENTS ON SOME PROPERTIES OF HIGH-ZIRCONIUM CU ZR ALLOYS 67-09 M01-77249
THE EFFECT OF LI ON THE HIGH TEMPERATURE OXIDATION OF FE-25 CR ALLOY 67-10 M18-80010

OXIDATION RESISTANCE, COMPOSITION EFFECTS
MECHANISM OF OXIDATION OF DILUTE NICKEL-CHROMIUM ALLOYS 67-02 M18-61137
OXIDATION CHARACTERISTICS OF HAFNIUM AND ZIRCONIUM DIBORIDE 67-12 M18-82563

OXIDATION RESISTANCE, IMPURITY EFFECTS
THE ROLE OF IRON IN THE OXIDATION OF MOLYBDENUM DISILICIDE 67-06 M18-71615

OXIDATION RESISTANCE, RADIATION EFFECTS
IRRADIATION EFFECTS ON HIGH-TEMPERATURE REACTOR STRUCTURAL METALS 67-07 M18-73381

OXIDATION RESISTANCE, TEMPERATURE EFFECTS
NITROGEN-ALLOYED HEAT AND SCALE-RESISTANT STEEL CASTINGS. PT. 1 67-09 M17-76521

OXIDATION TESTS
INFLUENCE OF COMPOSITION OF CAST IRON DEPOSIT WELDS ON ITS HEAT RESISTANCE 67-01 M12-57392
METALLIC CEMENTATION 67-01 M12-58432
SOME PHYSICAL AND CHEMICAL PROPERTIES OF RARE-EARTH METAL SILICIDES 67-01 M15-58200
BEHAVIOR OF IRON-CHROME-NICKEL AUSTENITES AND FEAL 40 ALLOY IN SUPERHEATED STEAM 67-01 M18-57162
COMPARATIVE OXIDIZABILITY OF TITANIUM ALLOYS WHEN HEATED IN AIR 67-01 M18-57315
THE OXIDATION OF NICKEL IN THE TEMPERATURE RANGE 700 TO 1100 C 67-01 M18-58124
OXIDATION KINETICS OF MAGNESIUM IN DRY OXYGEN BETWEEN 350 AND 450 C. --THE INFLUENCE OF PRESSURE 67-01 M18-58125
OXIDATION OF THIN MAGNESIUM LAYERS AT HIGH TEMPERATURES 67-01 M18-58126
OXIDATION CHARACTERISTICS OF VAPOR-PLATED TUNGSTEN 67-01 M18-58514
INHIBITION OF THE REACTION OF MOLTEN ALUMINUM ON REFRACTORIES CONTAINING SILICA, BY TRACES OF MAGNESIUM 67-02 M03-62000
OXIDATION OF MOLTEN IRON ALLOYS WITH ATMOSPHERE 67-02 M04-59153
THE DEVELOPMENT AND EVALUATION OF HYPEREUTECTIC CARBIDES 67-02 M05-60712
ON POROUS BODY OXIDATION 67-02 M09-59608
INVESTIGATION OF THE OXIDATION OF TUNGSTEN-NIOBIUM ALLOYS 67-02 M18-59895
OBSERVATION OF LOW TEMPERATURE OXIDATION PROCESS OF PURE COPPER BY 0.6 MICRON MONOCHROMATIC LIGHT 67-02 M18-60271
MECHANISM OF OXIDATION OF DILUTE NICKEL-CHROMIUM ALLOYS 67-02 M18-61137
THE OXIDATION OF CB-ZR AND CB-ZR-RE ALLOYS IN OXYGEN AT 1000 C 67-03 M18-65094
OXIDATION OF BERYLLIUM 67-03 M18-65258
INTERACTION OF TANTALUM WITH NITROGEN AND AIR 67-04 M14-66449
THE RATE AT WHICH NIOBIUM-IRON AND NIOBIUM-COBALT ALLOYS ARE OXIDIZED AT HIGH TEMPERATURES 67-04 M18-66036
CORROSION RESISTANCE AT HIGH TEMPERATURES. PT. 16. OXIDATION OF STAINLESS STEELS AND HEAT RESISTANT ALLOYS AT HIGH TEMPERATURES 67-04 M18-66640
HIGH TEMPERATURE OXIDATION OF METALS 67-04 M18-67162
HEAT RESISTANCE OF CHROMIUM AND CHROMIUM ALLOYS WITH ADDITIONS OF MGO 67-04 M18-67283
INTERNAL OXIDATION OF 3 PER CENT SI STEEL 67-04 M18-67284
STABILITY OF SOME REFRACTORY MATERIALS IN CRYOLITE-ALUMINA MELTS 67-05 M03-68959
PROPERTIES OF ZRB2-TAB2 ALLOYS CONTAINING CR 67-05 M09-68236
ORIENTED GROWTH OF AN OXIDE FILM ON BERYLLIUM 67-05 M14-68244
SOME FEATURES OF THE OXIDATION OF TITANIUM 67-05 M18-68245
MICROSTRUCTURE, TECHNICAL AND CORROSION PROPERTIES OF HIGH-B CHEMICALLY RESISTANT STEELS 67-05 M18-68608
IMPROVING OXIDATION RESISTANCE OF COLUMBIUM AT HIGH TEMPERATURES 67-05 M18-69011
EFFECT OF YTTRIUM ON THE OXIDATION OF MOLYBDENUM AT HIGH TEMPERATURES 67-05 M18-69250
THE FORMATION OF SCALE ON IRON-COPPER AND IRON-COBALT ALLOYS HEATED IN AIR 67-05 M18-69256
USE OF TITANIUM CHIPS FOR OXIDATION PROTECTION OF IRON DURING HEATING 67-06 M18-70078
OXIDATION-RESISTANT HARD MATERIALS 67-06 M18-70080
THE EP548 ALLOY FOR ELECTRIC FURNACE HEATING ELEMENTS 67-06 M18-70194
RESEARCH INTO THE OXIDATION OF NIOBIUM ALLOYED WITH VANADIUM, TITANIUM AND ZIRCONIUM 67-06 M18-70926
THE LIFE OF SILICON CARBIDE HEATERS IN ARGON AT HIGH TEMPERATURES 67-07 M18-72615
CORROSION OF COLUMBIUM CARBIDE AT HIGH TEMPERATURE IN THE MEDIUM OF COMMERCIALLY PURE INERT GASES 67-07 M18-73656
RESEARCH INTO THE HIGH-TEMPERATURE CORROSION-RESISTANCE OF ALLOYS OF TUNGSTEN WITH NIOBIUM AND TITANIUM 67-08 M18-75143
HEAT RESISTANCE OF NICKEL ALLOY WITH OXIDE ADDITIONS 67-10 M18-78537
USE OF TITANIUM CHIPS FOR PROTECTION OF IRON AGAINST OXIDATION DURING HEATING

OXIDATION TESTS

67-10 M18-78824
STRUCTURAL TRANSFORMATIONS TAKING PLACE DURING THE OXIDATION OF CHROMIUM ALLOYS CONTAINING YTTRIUM
67-10 M18-78960
CORROSION OF COLUMBIUM CARBIDE AT HIGH TEMPERATURES IN INERT GASES OF TECHNICAL PURITY
67-10 M18-79676
INTERACTION OF TANTALUM WITH NITROGEN AND AIR
67-11 M14-80990

OXIDATION TESTS, ALLOYING EFFECTS
OXIDATION RESISTANCE OF TI-AL ALLOYS
67-08 M18-75899

OXIDATION TESTS, TEMPERATURE EFFECTS
GAS-SOLID REACTIONS IN FLOW ENVIRONMENTS AT HIGH TEMPERATURES
67-09 M18-77505

OXIDE CATHODES
SEE CATHODES
OXIDE COATINGS

OXIDE COATINGS
PHASE ANALYSIS OF OXIDE FILMS ON FE-AL POWDER COMPOSITES
67-01 M09-58175
THERMAL STABILITY OF CERAMIC COATINGS DEPOSITED ON METALS
67-02 M12-59607
THE EFFECT OF ANODIC FILMS ON THE GASEOUS OXIDATION OF TANTALUM
67-02 M14-59450
STRUCTURE OF THIN OXIDE FILMS ON IRON-SILICON ALLOYS
67-02 M18-61941
INVESTIGATION OF THE FORMATION OF OXIDE FILMS IN IRON-MANGANESE MELTS
67-03 M18-65974
ALUMINIUM WELDING BY THE OXY-ACETYLENE PROCESS
67-05 M11-68422
SURFACE OXIDE FILMS AND THE LIFETIME OF VACANCIES IN THIN CRYSTALS
67-05 M14-68752
REACTIONS OF OXYGEN WITH THE PLATINUM METALS. PT. 2. OXIDATION OF RUTHENIUM, RHODIUM, IRIDIUM AND OSMIUM
67-05 M18-69284
STRUCTURE AND MECHANISM OF FORMATION OF OXIDE FILMS ON FE SINGLE CRYSTALS BY NANO2
67-05 M18-69840
OXIDATION AND SELF-REPAIR OF THE ZINC-BASED HIGH TEMPERATURE COATING FOR NIOBIUM
67-05 M18-69841
DIELECTRIC BREAKDOWN OF ANODIC OXIDE FILMS ON VALVE METALS
67-05 M18-69843
OXIDE DISSOLUTION AND ITS EFFECT ON THE CORROSION OF 1100 ALUMINUM IN WATER AT 70 C
67-06 M18-72168
OXIDE FILM GROWTH OVER FIVE YEARS ON SOME ALUMINUM SHEET ALLOYS IN AIR OF VARYING HUMIDITY AT ROOM TEMPERATURE
67-06 M18-72170
KINETICS OF TANTALUM CORROSION IN AQUEOUS ELECTROLYTES
67-06 M18-72172
EFFECT OF DIFFUSED OXYGEN AND GOLD ON SURFACE PROPERTIES OF OXIDIZED SILICON
67-11 M15-80507
DEPOSITION AND PROPERTIES OF ALUMINUM OXIDE OBTAINED BY PYROLYTIC DECOMPOSITION OF AN ALUMINUM ALKOXIDE
67-12 M12-82459

OXIDE COATINGS, COATING
CHROMIZING MOLYBDENUM FOR GLASS SEALING
67-02 M12-60698

OXIDE COATINGS, CRYSTAL GROWTH
CHEMICAL VAPOR GROWTH OF SINGLE-CRYSTAL MAGNETIC OXIDE FILMS
67-07 M14-73523
OXIDE DEPOSITION IN SILICON EPITAXIAL SYSTEMS
67-11 M14-80832

OXIDE COATINGS, CRYSTAL STRUCTURE
THE EFFECTS OF CRYSTALLOGRAPHIC ORIENTATION AND OXYGEN PRESSURE ON THE OXIDATION OF IRON
67-03 M14-65422

OXIDE COATINGS, ELECTRICAL PROPERTIES
HIGH RESISTANCE ANODIC OXIDE FILMS ON ALUMINIUM
67-02 M15-61106
LONG-TIME EFFECT OF EXTERNAL FIELDS ON SURFACE SILICON OXIDE CONDUCTIVITY
67-02 M15-61535
EFFECT OF A SURFACE OXIDE FILM ON THE ELECTROPHYSICAL SURFACE PROPERTIES OF GERMANIUM
67-05 M15-68573
ELECTRICAL CONDUCTIVITY OF SILICON OXIDE
67-06 M16-71026
INCORPORATION OF IONS IN ANODIC OXIDE FILMS ON ZIRCONIUM AND THEIR EFFECT ON FILM BEHAVIOR
67-07 M15-73459
ELECTROKINETIC BEHAVIOR OF ANODIC OXIDE COATING OF ALUMINUM. PT. 1. ZETA POTENTIAL AND DYEING AFFINITY OF ANODIC OXIDE COATING OF ALUMINUM
67-09 M12-76681
OXIDATION OF EVAPORATED ZINC FILM
67-12 M15-83549

OXIDE COATINGS, ELECTROCHEMISTRY
ELECTROCHEMISTRY OF SURFACE OXIDES
67-02 M15-59449

OXIDE COATINGS, MECHANICAL PROPERTIES
DEFORMATION OF ANODIC OXIDE FILMS
67-02 M17-61764
DEFORMATION OF PASSIVE FILMS
67-12 M17-82454

OXIDE COATINGS, MICROSTRUCTURE
APPLICATIONS OF THE SCANNING ELECTRON MICROSCOPE TO OXIDE SURFACES
67-04 M18-67490
INVESTIGATIONS OF THIN OXIDE FILMS. PT. 3. THE ELECTRON MICROSCOPIC INVESTIGATION OF ISOLATED ALPHA-FE2O3 AND NIO WHISKERS
67-05 M13-69838
ELECTRON MICROSCOPIC OBSERVATION OF OXIDES FORMED ON THIN FILM OF COPPER AT ELEVATED TEMPERATURE
67-06 M14-71544
THE EMBRITTLEMENT OF OXIDE FILMS ON ZIRCONIUM BY NEUTRON IRRADIATION
67-07 M13-74234
IDENTIFICATION OF A THIN OXIDE FILM ON 18CR-8NI STEEL
67-09 M18-76649
INVESTIGATION OF THE STRUCTURE OF SURFACE FILMS ON HIGH-PURITY ZIRCONIUM
67-11 M18-81294

OXIDE COATINGS, RADIATION EFFECTS
EFFECTS OF NEUTRON IRRADIATION AND VACUUM ANNEALING ON OXIDE FILMS ON ZIRCONIUM
67-02 M16-59025

OXIDE COATINGS, REACTIONS /CHEMICAL/
OXIDATION OF COPPER SINGLE CRYSTALS IN AQUEOUS SOLUTIONS OF INORGANIC SALTS. PT. 4. EFFECT OF PH ON OXIDE TOPOGRAPHY IN CUSO4 AND CU--OAC--2 SOLUTIONS
67-02 M14-61752

OXIDE COATINGS, SURFACE FINISHING
APPLICATION OF POLISHING BY ELECTROLYTIC FRICTION TO PARTICULAR CASES--METALLOGRAPHIC SPECIMENS WITH HARD THIN COATINGS OR WITH OXIDE FILMS
67-02 M13-60752
THE OXIDE-METAL INTERFACE OF ELECTROPOLISHED ALUMINUM
67-07 M12-72645

OXIDE COATINGS, THERMAL PROPERTIES
THERMAL SHOCK RESISTANCE OF CERAMIC COATINGS ON METALS
67-09 M12-76925
THERMAL CONDUCTIVITY AND EMISSIVITY OF ALUMINUM OXIDE COATINGS AT HIGH TEMPERATURES
67-11 M15-80493

OXIDE COATINGS, THERMODYNAMICS
FREE ENERGY OF FORMATION OF CUPRIC OXIDE
67-03 M18-65421

OXIDE COATINGS, TRANSPORT PROPERTIES
STRUCTURE AND GROWTH OF THIN FILMS ON METALS EXPOSED TO OXYGEN
67-09 M14-76645

OXIDES
SEE ALSO ALUMINUM OXIDE
CARBON DIOXIDE
CARBON MONOXIDE
DIOXIDES
MAGNESIUM OXIDE
PEROXIDES
RED LEAD
SILICA
SULFUR DIOXIDE
TITANIUM DIOXIDE
URANIUM OXIDES
CRYSTAL GROWTH OF WUSTITE,FE1-XO
67-02 M14-60922
DISPERSION STRENGTHENING
67-03 M14-65331

OXIDES, ACOUSTIC PROPERTIES
FIELD DEPENDENCE OF ULTRASONIC ATTENUATION IN SEMICONDUCTING ZNO
67-06 M16-70085

OXIDES, ADHESION
INFLUENCE OF OXIDE FILMS ON FRICTION AND WEAR DURING SLIDING
67-09 M17-76369

OXIDES, ALLOYING ADDITIVE
INFLUENCE OF ALLOYING ON ELECTRIC CONDUCTIVITY OF CERIUM SULFIDE
67-05 M16-68712
THE EFFECT OF ALUMINA, CALCIUM OXIDE AND ALKALI ON THE PHYSICO-CHEMICAL PROPERTIES OF IRON-MAGNESIA SILICAL MELTS
67-09 M15-77063
EFFECT OF ALLOYING ON THE ELECTROCONDUCTIVITY OF CERIUM SULFIDE
67-12 M16-82688

OXIDES, ATOMIC PROPERTIES
MECHANISM OF ELECTRON SCATTERING IN IN2O3 FILMS
67-06 M16-71775
BOND AND MOLECULAR POLARIZABILITIES, MEAN AMPLITUDES OF VIBRATION AND THERMODYNAMIC FUNCTIONS OF THORIUM OXIDE AND ZIRCONIUM OXIDE
67-09 M16-77526
THE ROLE OF STABLE ELECTRON CONFIGURATIONS IN THE ORIGIN OF THE PROPERTIES OF CHEMICAL ELEMENTS AND COMPOUNDS
67-11 M16-80894
THE COHESIVE ENERGY OF TIO2 --RUTILE--

67-11 M16-81681
DOUBLY-ASSOCIATED CATION-VACANCY CENTERS IN MAGNESIUM OXIDE 67-11 M16-81683
OXIDES, ATOMIC STRUCTURE
THE INFLUENCE OF THE FORMATION OF STABLE ELECTRONIC CONFIGURATIONS ON THE PROPERTIES OF CHEMICAL ELEMENTS AND COMPOUNDS 67-07 M16-72508
OXIDES, BAND THEORY
BAND STRUCTURE OF A CUPROUS OXIDE CRYSTAL 67-05 M16-68579
OXIDES, BENEFICIATION
THE STATE-OF-THE-ART TUNGSTEN AND SCHEELITE --CAWO4-- ORE DRESSING AT THE TUX PLANT AS PRACTICED BY OAMAG 67-07 M02-73728
OXIDES, BINARY SYSTEMS
PHASE EQUILIBRIA IN THE SYSTEM CAO-YB203 67-04 M14-67324
LIQUIDUS IN THE ALUMINA-RICH SYSTEM LA203-AL203 67-07 M14-72832
MONOXIDE-TYPE COMPOUNDS OF URANIUM AND PLUTONIUM. PT. 1. OXYCARBIDES 67-09 M14-76755
OXIDES, CERAMICS
HEAT RESISTANT CERAMIC MATERIALS 67-06 M05-70225
OXIDES, CHEMICAL ANALYSIS
THE ABSOLUTE DETERMINATION OF THE THICKNESS AND COMPOSITION OF SURFACE LAYERS WITH A MICROPROBE 67-02 M19-59067
EVALUATING THE SENSITIVITY AND ACCURACY OF THE DETERMINATION OF THE TOTAL OXYGEN IN METALS BY THE NEUTRON ACTIVATION METHOD 67-04 M19-67089
EVALUATION OF QUANTITATIVE ELECTRON MICROPROBE ANALYSES OF MULTIPHASE MICROCRYSTALLINE REFRACTORY MATERIALS 67-06 M19-71430
SPECTRAL ANALYSIS OF OXIDE INCLUSIONS SEPARATED FROM STEEL 67-09 M19-78065
ESTIMATE OF THE SENSITIVITY AND ACCURACY OF DETERMINING THE TOTAL AMOUNT OF OXYGEN IN METALS BY THE NEUTRON ACTIVATION METHOD 67-09 M19-78069
OXIDES, COATING
DEPOSITION OF TANTALUM, TANTALUM OXIDE, AND TANTALUM NITRIDE WITH CONTROLLED ELECTRICAL CHARACTERISTICS 67-01 M12-57107
A NITRIC OXIDE PROCESS FOR THE DEPOSITION OF SILICA FILMS 67-06 M12-70665
PREPARATION AND PROPERTIES OF SPUTTERED BISMUTH OXIDE FILMS 67-06 M12-71045
OXIDES, COATINGS
PREVENTION OF TARNISHING OF SILVER SURFACE 67-01 M18-58710
THE EFFECTIVENESS OF SPRAYED CERAMIC FILMS AS A PROTECTION AGAINST OXIDATION OF STEEL 67-02 M18-60282
DEPOSITION OF TANTALUM AND TANTALUM OXIDE BY SUPERIMPOSED RF AND D-C SPUTTERING 67-07 M12-73458
ZNO AS A MILL ALLOY IN GLAZES 67-08 M12-74561
FLAME-SPRAYED COATINGS 67-09 M12-76699
THE ANODIC DEPOSITION OF IRON OXIDE FILMS ON IRON 67-09 M12-77887
THE ANODIC DEPOSITION OF IRON OXIDE FILMS ON PLATINUM 67-09 M12-77888
OXIDES, COMPOSITE MATERIALS
PREPARATION OF METAL-OXIDE DISPERSION COMPOSITES 67-03 M14-65347
OXIDES, CORROSION ENVIRONMENTS
TYPES OF CORROSION, AND THE BEHAVIOR OF METALS AND ADDITIVES IN FIRING PLANTS 67-02 M18-62016
OXIDES, CRYSTAL GROWTH
ELECTRON DIFFRACTION STUDIES OF THE EPITAXY OF CU SINGLE CRYSTALS. PT. 2. EARLY STAGES OF EPITAXY AND INTERFACIAL DISLOCATION NETWORKS 67-01 M13-57109
PRODUCTION OF CUPROUS OXIDE SINGLE CRYSTALS BY MELT 67-03 M14-65160
PREPARATION OF NIO SINGLE CRYSTALS BY CHEMICAL TRANSPORT 67-03 M14-65396
THE CALCINATION OF TWO BEO POWDERS 67-04 M14-66241
REACTIVELY SPUTTERED VANADIUM DIOXIDE THIN FILMS 67-06 M14-72199
EPITAXIAL GROWTH OF VO2 SINGLE CRYSTALS AND THEIR ANISOTROPIC PROPERTIES IN ELECTRICAL RESISTIVITIES 67-07 M14-73996
OXIDES, CRYSTAL LATTICES
PREPARATION AND STRUCTURAL DATA OF --TI1-XVX--02 67-05 M13-69297
DISTORTION IN THE CRYSTAL STRUCTURE OF ALPHA-MN203 67-06 M13-71996
REACTIONS BETWEEN VACANCIES AND IMPURITIES IN MAGNESIUM OXIDE. PT. 1. CR3 PLUS-ION IMPURITIES 67-06 M14-72197
REACTIONS BETWEEN VACANCIES AND IMPURITIES IN MAGNESIUM OXIDE. PT. 2. MN4 PLUS-ION AND OH EQUALS -ION IMPURITIES 67-06 M14-72198
POINT DEFECTS IN BINARY COMPOUNDS 67-07 M13-74099
ON THE MORPHOLOGY AND POLARITY OF THE ZNO CRYSTAL 67-07 M14-73323
STUDIES IN SOLID STATE CHEMISTRY. PT. 1. ON A SOLID-STATE MECHANISM FOR THE POLYMORPHIC TRANSFORMATION OF ORTHORHOMBIC TO TETRAGONAL PBO 67-07 M14-73637
ANALYSIS OF THIN FILMS 67-08 M13-75345
CRYSTALLOGRAPHY OF BA3UFE209 AND SR3UFE209 COMPOUNDS 67-09 M13-76468
OXIDES, CRYSTAL STRUCTURE
STUDIES ON STRUCTURAL DEFECTS IN WOLFRAM TRIOXIDE., INFLUENCE OF MINOR ADDITIONS OF TANTALA OR NIOBIA 67-02 M13-60923
ELECTRON MICROSCOPIC OBSERVATION OF OXIDES FORMED ON THIN FILM OF COPPER AT ELEVATED TEMPERATURE 67-06 M14-71544
OXIDES, CRYSTALLIZATION
DEFECT CHARACTERIZATION IN THE PRECIPITATION FROM CAO..YB203 CRYSTALLINE SOLUTIONS 67-06 M14-71166
OXIDES, DEPOSITION
TANTALUM OXIDE FILMS PREPARED BY OXYGEN PLASMA ANODIZATION AND REACTIVE SPUTTERING 67-09 M12-76750
OXIDES, DIELECTRICS
THIN-FILM HAFNIUM-HAFIUM OXIDE CAPACITORS FOR HIGH TEMPERATURE OPERATION 67-08 M14-75163
OXIDES, DIFFUSION
SELF-DIFFUSION OF OXYGEN IN Y203 AND ER203 67-06 M14-71167
SELF-DIFFUSION OF CALCIUM IN SINGLE CRYSTAL CALCIUM OXIDE 67-07 M14-73636
EFFECT OF MGO AND MGTIO3 DOPING ON DIFFUSION-CONTROLLED CREEP OF POLYCRYSTALLINE ALUMINUM OXIDE 67-08 M17-76095
OXIDATION BEHAVIOR OF MIXED FE AND MN PROTOXIDES AND THEIR LACUNAR STRUCTURE 67-11 M14-80357
SELF-DIFFUSION OF BERYLLIUM IN POLYCRYSTALLINE BERYLLIUM OXIDE 67-11 M14-81557
BERYLLIUM OXIDE 67-11 M16-80468
OXIDES, ELASTIC CONSTANTS
ELASTIC CONSTANTS OF HEXAGONAL BEO, ZNS AND CDSE 67-08 M17-75130
OXIDES, ELECTRICAL PROPERTIES
IDEAL MOS CURVES FOR SILICON 67-01 M15-57221
THE PHASE TRANSITION IN VO2 67-07 M16-72408
PHOTOCONDUCTIVE EFFECT OF ZNO-CU CRYSTALS 67-07 M16-73324
SEMICONDUCTOR-TO-METAL TRANSITION IN V203 67-07 M16-73946
THE DIELECTRIC CONSTANT OF ZIRCONIA 67-08 M15-76253
OXIDES, EMITTERS /ELECTRON/
THERMIONIC ELECTRON EMITTERS BASED ON THE ALLOYS OF RARE-EARTH METALS 67-09 M20-76663
OXIDES, EVAPORATION
THE EVALUATION OF GRAVIMETRIC MEASUREMENTS DURING EVAPORATION OF TWO COMPOUNDS FROM A BINARY SOLUTION 67-01 M14-57295
SOME EXPERIMENTS IN THE REACTIVE EVAPORATION OF TANTALUM OXIDE 67-08 M14-75160
OXIDES, HEAT TREATMENT
THE PREPARATION AND STRUCTURE OF ZRO2 SPHERES 67-08 M01-75993
OXIDES, INCLUSIONS
ISOLATION AND EASE OF ISOLATION OF OXIDE INCLUSIONS IN AUSTENITIC CR-NI STEELS 67-01 M19-57921
THE DETERMINATION OF OXIDE INCLUSIONS IN STEEL 67-02 M04-60206
REPORT OF OXYGEN DISTRIBUTION IN INGOTS OF RIMMED STEEL 67-02 M04-60654
THERMODYNAMIC ANALYSIS OF THE REDUCTION OF CHROMIUM INCLUSIONS IN 20 PER CENT-CHROMIUM STEEL BY RARE EARTH METALS OF THE CERIUM SUBGROUP 67-04 M04-66608
OCCURRENCE OF BORON IN OXIDE INCLUSIONS IN STEEL 67-06 M13-70808

OXIDES
THE CHEMICAL ISOLATION OF OXIDE INCLUSIONS IN RIMMING STEELS 67-07 M19-72709
OXIDES, MAGNETIC PROPERTIES
DOMAIN STRUCTURE OF HEXAGONAL FERRIMAGNETIC OXIDES WITH HIGH ANISOTROPY FIELD 67-01 M15-57120
MOSSBAUER EFFECT IN ALPHA-FE203 67-02 M15-61524
SPONTANEOUS MAGNETIZATION OF EUO AND GDN 67-03 M15-65145
THE EFFECT OF OXYGEN STOICHIOMETRY ON THE MAGNETO-CRYSTALLINE ANISOTROPY OF MAGNETITE 67-03 M15-65162
MAGNETIC SUSCEPTIBILITY OF GROUP 2, GROUP 4 SEMICONDUCTOR ZNO 67-03 M15-65919
MAGNETIC RESONANCE EXPERIMENTS ON VO2 67-04 M16-66790
MOSSBAUER EFFECT STUDY OF V203 67-04 M16-67476
EFFECT OF DOMAIN STRUCTURE ON THE MAGNETIC PROPERTIES OF CHROMIUM OXIDE 67-05 M15-69024
ON THE PROCESS OF REVERSAL OF MAGNETIZATION IN BARIUM FERRITE POWDERS 67-06 M15-71914
CRYSTAL CHEMISTRY AND MAGNETISM OF OXIDE MATERIALS. PT. 1. PRINCIPLES AND APPLICATION OF CRYSTAL FIELD THEORY 67-06 M16-70578
MAGNETIC CRITICAL-POINT BEHAVIOR OF CRO2 67-07 M15-73502
ON THE COERCIVITY OF GAMMA FE203 PARTICLES 67-07 M15-73503
COMPOUNDS AND OXIDES. PT. 3. THE MAGNETIC SUSCEPTIBILITY OF NEPTUNIUM OXIDE AND CARBIDE BETWEEN 4.2 AND 350 K 67-07 M15-73599
MAGNETIC BEHAVIOR OF THE SYSTEM MN203-FE203 67-07 M15-73600
MAGNETIC PROPERTIES OF FEXO AS RELATED TO THE DEFECT STRUCTURE 67-07 M15-73602
FIELD-DEPENDENT MAGNETIC SUSCEPTIBILITY OF MNO 67-07 M15-73603
THE PARAMAGNETIC FORM FACTOR OF GADOLINIUM 67-07 M16-73585
MAGNETOCRYSTALLINE ANISOTROPY OF SINGLE-CRYSTAL EUROPIUM OXIDE 67-08 M16-75932
OXIDES, MECHANICAL PROPERTIES
CERAMIC PARTS 67-02 M05-61100
ON THE TEMPERATURE DEPENDENCE OF THE BULK MODULUS AND THE ANDERSON-GRUNEISEN PARAMETER DELTA OF OXIDE COMPOUNDS 67-07 M17-72842
CREEP-ELECTRICAL CONDUCTIVITY CORRELATIONS IN POLYCRYSTALLINE BERYLLIUM OXIDE 67-08 M17-76097
HOT HARDNESS OF SELECTED BORIDES, OXIDES AND CARBIDES TO 1900 C 67-09 M17-76752
HIGH-TEMPERATURE CREEP AND DISLOCATION ETCH PITS IN POLYCRYSTALLINE BERYLLIUM OXIDE 67-09 M17-76754
MICROHARDNESS OF IRRADIATED BERYLLIUM OXIDE 67-11 M17-80631
OXIDES, MICROSTRUCTURE
ON THE SUPERSTRUCTURES OF TA205 AND NB205 67-06 M13-70985
CLUSTERING OF DEFECTS IN NEUTRON-IRRADIATED BERYLLIUM OXIDE 67-06 M14-70983
CRYSTALLOGRAPHIC STUDIES OF SOME MIXED MANGANITE SPINELS 67-11 M13-81678
OXIDES, NUCLEAR FUELS
URANIUM AND THORIUM OXIDES--PROPERTIES AND BEHAVIOR 67-09 M16-77314
URANIUM AND THORIUM OXIDES--FABRICATION 67-09 M16-77315
OXIDES, NUCLEATION
NUCLEATION OF OXIDE PARTICLES DURING SOLIDIFICATION 67-08 M14-75315
OXIDES, OPTICAL PROPERTIES
ANISOTROPY IN LATTICE VIBRATIONS OF ZINC OXIDE 67-09 M15-77458
THERMOLUMINESCENT STUDY OF THE COLOR CENTERS IN IRRADIATED POLYCRYSTALLINE MGO 67-11 M15-81686
OXIDES, PHASE TRANSFORMATIONS
PHASE TRANSITIONS IN TEO4 AT HIGH PRESSURES 67-06 M14-70049
OXIDES, PHASES /STATE OF MATTER/
THE LOWER OXIDES OF NIOBIUM 67-01 M14-58535
NEW HIGH PRESSURE PHASES HAVING THE CORUNDUM STRUCTURE 67-04 M13-67364
HIGH-TEMPERATURE CHEMISTRY OF SILICATES AND OTHER OXIDE SYSTEMS 67-04 M15-66278
PHASE CHEMICAL ANALYSIS OF ALLOYS OF THE ZRO2-ZRC AND ZRO2-TIC SYSTEM 67-06 M14-69995
THE SYSTEM UO2-EU203 AT HIGH TEMPERATURES 67-07 M13-74233
STOICHIOMETRY OF PRASEODYMIUM OXIDES 67-09 M13-78016
DEFECT EQUILIBRIA OF PUO2-X, 1045 TO 1505 C 67-09 M14-76348
OXIDES, PHYSICAL PROPERTIES
MODERN CERAMICS--SOME PRINCIPLES AND CONCEPTS 67-02 M05-60701
VISCOSITY OF MOLTEN B203 67-04 M15-67326
ELECTRIC AND MAGNETIC PROPERTIES OF VO 67-04 M15-67486
MATERIALS FOR ENGINEERS. PT. 8. BERYLLIUM OXIDE 67-06 M05-70692
SLAG FLOW RATES ON OXIDE MATERIALS 67-06 M15-70168
INFLUENCE OF STABILIZING ADDITIONS ON THERMAL STABILITY OF ZIRCONIA PARTS 67-06 M15-70566
PROPERTIES OF WO3 MODIFIED BY THE SUBSTITUTION OF MO AND CR 67-06 M15-70605
THE OPTICAL AUTOABSORPTION AND THE DIELECTRIC CONSTANT OF CADMIUM OXIDE AT HIGH ELECTRON DEGENERATION 67-06 M16-69963
REFLECTANCE AND SURFACE CONDUCTIVITY OF ZINC OXIDE CRYSTALS 67-06 M16-70087
IRRADIATION DAMAGE TO SINTERED BERYLLIUM OXIDE AS A FUNCTION OF FAST-NEUTRON DOSE AND FLUX AT 110, 650 AND 1100 C 67-06 M16-70706
ENGINEERING PROPERTIES OF SELECTED CERAMIC MATERIALS 67-07 M05-73875
VAPORIZATION KINETICS OF CERAMIC OXIDES AT TEMPERATURES AROUND 2000 C 67-08 M15-75371
EVALUATION OF THE DEBYE TEMPERATURE OF THORIUM DIOXIDE 67-11 M15-80603
ENERGY OF THE DONOR GROUND STATE IN CDS, CDSE, AND ZNO 67-11 M15-80629
OXIDES, POWDER METALLURGY
DEVELOPMENT TRENDS IN MODERN POWDER METALLURGY 67-01 M09-58717
BENCH SCALE ISOSTATIC PRESSING 67-08 M09-75525
REFRACTORY PLUTONIUM FUEL MATERIALS 67-09 M09-76338
HOT PRESSING OF BERYLLIA AND ZIRCONIA 67-09 M09-77474
OXIDES, PRECIPITATION
SOLUBILITY OF GASES IN REFRACTORY METALS AND PRECIPITATION FROM SUPERSATURATED SOLID SOLUTIONS 67-04 M14-67547
OXIDES, QUATERNARY SYSTEMS
PHASE RELATIONS IN THE SYSTEM FEO-FE203-ZRO2-SIO2 67-07 M14-72826
INVESTIGATIONS OF THE EFFECT OF SILICON OXIDE AND OF THE OXIDATION DEGREE ON THE PHASE BOUNDARIES, IN PARTICULAR OF THE MISCIBILITY GAP, IN THE SYSTEM CAO-P205-FEO-FE203-SIO2 AT 1600 C 67-07 M14-73282
THE CONSTITUTIONAL DIAGRAM OF THE SYSTEM CAO-FEON-P205-SIO2 AT 1600 C 67-07 M14-73283
STUDY OF THE LIQUIDUS TEMPERATURES OF THE SYSTEM CAO-P2O-SIO2-IRON OXIDE. PT. 1. 15 PER CENT FEO LEVEL 67-08 M13-76225
OXIDES, RADIATION EFFECTS
DIRECT OBSERVATION OF FISSION FRAGMENT DAMAGE IN SOME CERAMIC OXIDES 67-04 M16-67459
OXIDES, REACTIONS /CHEMICAL/
ON THE INTERACTION OF SCANDIUM OXIDE WITH TUNGSTEN TRIOXIDE 67-05 M14-68966
STRUCTURE OF THE OXIDES OF TANTALUM 67-05 M14-69290
TOPOTAXY IN DECOMPOSITION OF CRO2 67-05 M15-68613
THE NATURE OF THE INTERACTION OF ZIRCONIUM DIOXIDE WITH TITANIUM, NIOBIUM AND CHROMIUM CARBIDES 67-06 M14-71101
AN APPROXIMATE ANALYSIS FOR THE REDUCTION OF IRON-OXIDE PELLETS IN THE MIXED-CONTROL MECHANISM 67-07 M04-72535
THE INFLUENCE OF H4SIO4 AND OTHER ADMIXTURES UPON THE CHLORIDIZING VOLATILIZATION OF ZN FROM ZNO WITH CACL2 67-08 M03-74654
ON THE DECOMPOSITION OF CRO2 IN AIR 67-08 M14-76000
INVESTIGATION OF THE CONDITIONS OF PREPARATION OF YB6-LAB6 ALLOYS 67-09 M09-76912
THE KINETICS AND MECHANISM OF FLUORINATION OF COPPER OXIDE. PT. 2. THE REACTION OF FLUORINE WITH COPPER --I-- OXIDE 67-09 M14-76599
OXIDES, REDUCTION /CHEMICAL/
CARBON REDUCTION KINETICS FOR MANGANESE AND SILICON

FROM MNO AND SIO2 MIXTURES 67-01 M03-58289
METALLOTHERMIC REDUCTION OF BERYLLIUM OXIDE 67-02 M03-59430
REDUCING VANADIUM PENTOXIDE BY ALUMINUM 67-06 M03-69997
LANTHANO- AND CERIO-THERMAL REDUCTION OF YTTERBIUM OXIDE 67-06 M03-69998

OXIDES, REFINING
NEW METHOD OF PURIFYING IRON BY ELECTROTRANSPORT IN FERROUS OXIDE 67-02 M04-58924
REDUCING ROAST FOR MANGANESE ORES USING INDUSTRIAL GASES 67-05 M03-68407
STUDY OF CONDITIONS FOR CHLORINATING TUNGSTEN OXIDES AND THE FEASIBILITY OF DEEP REFINING THEM BY OXYCHLORIDE 67-06 M03-72111
READYING THE SWITCH TO ZIRCONIUM 67-07 M03-73212
ON LANTHANO-AND CERIUM-THERMAL REDUCTION OF THULIUM OXIDE 67-09 M03-76953

OXIDES, SEMICONDUCTORS
HEATS OF ADSORPTION OF CARBON DIOXIDE ON DOPED ZINC OXIDE 67-05 M15-69598
TRANSIENT CURRENT DECAY IN SEMICONDUCTING ZNO DUE TO THE ACOUSTO-ELECTRIC EFFECT 67-05 M16-69099
ELECTRICAL AND OPTICAL PROPERTIES OF SNO2-SI HETEROJUNCTIONS 67-11 M15-80823

OXIDES, SINTERING
SENSITIVE RESONANT FREQUENCY TECHNIQUE FOR THE STUDY OF SINTERING KINETICS 67-07 M09-72828

OXIDES, SURFACE PROPERTIES
THE ESTIMATION OF THE SURFACE TENSION OF METAL OXIDES 67-01 M15-57425
METALLOGRAPHIC INVESTIGATION OF WETTABILITY SPECIMENS 67-07 M15-74276

OXIDES, SYNTHESIS
A NEW FAMILY OF OXYGENATED BRONZES--THE CDXWO3 SERIES 67-02 M14-62286
A PROCESS FOR PREPARING TUNGSTIC TRIOXIDE OF HIGH PURITY FROM A CANADIAN SCHEELITE CONCENTRATE 67-03 M14-65567

OXIDES, TERNARY SYSTEMS
PHASE EQUILIBRIUM IN THE SYSTEM PBO-TIO2-ZRO2 67-07 M14-72825
THE SYSTEM KA1SIO4-MG2SIO4-KA1SI2O6 67-08 M13-76091
CONDENSED PHASE RELATIONS IN THE SYSTEMS ZRO2-WO2-WO3 AND HFO2-WO2-WO3 67-08 M13-76093
PHASE EQUILIBRIA IN THE SYSTEM MNO-MN2O3-SIO2 67-11 M04-80117

OXIDES, THERMAL PROPERTIES
THERMAL AND ELECTRICAL PROPERTIES 67-02 M15-60704
THE THERMAL CONDUCTIVITY OF YELLOW PBO BETWEEN O AND 500 C 67-03 M15-65373
REGULARITIES OF THERMAL STABILITY OF OXIDES OF TRANSITION METALS 67-07 M15-72511
A STUDY OF UC1-XOX. PT. 3 67-07 M15-74013
URANIUM AND THORIUM OXIDES 67-11 M15-80462
REGULARITIES GOVERNING THE THERMAL STABILITY OF OXIDES OF THE TRANSITION METALS 67-11 M15-80897
INFLUENCE OF THE NATURE OF OXIDES ON GROWTH RATE OF DISPERSION PARTICLES IN NICKEL. PT. 2 67-12 M09-83560

OXIDES, THERMODYNAMICS
REVIEW OF THE SCIENCE OF CERAMIC MATERIALS 67-02 M05-60702
THERMODYNAMICS OF VAPORIZATION OF THALLIC OXIDE 67-05 M15-69596
HIGH-TEMPERATURE VAPORIZATION AND THERMODYNAMICS OF TITANIUM OXIDES. PT. 1. VAPORIZATION CHARACTERISTICS OF THE CRYSTALLINE PHASES 67-07 M14-74215
DETERMINATION OF THE ACTIVITY COEFFICIENT AT 1600 C. OF URANIUM IN AN INFINITELY DILUTE SOLUTION IN LIQUID IRON BY STUDYING A HETEROGENEOUS EQUILIBRIUM 67-09 M15-77680

OXIDES, THIN FILMS
THE EFFECT OF OXIDE FILMS ON DISLOCATION-SURFACE INTERACTIONS IN ALUMINUM 67-10 M13-79553

OXIDES, TRANSPORT PROPERTIES
HALL EFFECTS OF VANADIUM DIOXIDE POWDER 67-03 M16-65644
THERMOELECTRIC POWER OF VANADIUM DIOXIDE WHISKERS 67-03 M16-65645
HIGH TEMPERATURE HALL EFFECT IN CUPROUS OXIDE 67-05 M16-69091
MECHANISM OF SCATTERING OF ELECTRONS IN IN2O3 FILMS 67-06 M16-71923
SEMICONDUCTOR-TO METAL TRANSITIONS IN TRANSITION-METAL COMPOUNDS 67-07 M16-73947
HIGH FREQUENCY CONDUCTIVITY OF VO2 67-07 M16-73994
PRESSURE EFFECTS ON CHARGE TRANSPORT IN NICKEL AND CHROMIUM OXIDES 67-09 M16-77443

OXIDES, X RAY ANALYSIS
CONTRIBUTION TO THE IDENTIFICATION OF CHARACTERISTIC NONMETALLIC INCLUSIONS IN FERROCHROMES WITH MEDIUM CARBON AND SILICON CONTENTS 67-12 M13-83340

OXIDIZERS
SEE OXIDIZING AGENTS

OXIDIZING
SEE OXIDATION

OXIDIZING AGENTS
THE OBSERVATION OF MARKERS DURING THE OXIDATION OF COLUMBIUM 67-12 M14-82749
INFLUENCE OF VARIOUS OXIDIZING AGENTS AND TRACES OF SULFATE IONS ON THE CORROSION OF A SILICON AUSTENITIC STEEL IN A NITRIC ACID MEDIUM 67-12 M18-82138

OXIDIZING ATMOSPHERES
BEHAVIOR OF OXYGEN IN ELECTROSLAG REMELTING 67-11 M04-80208
THE INFLUENCE OF THE OXIDATION POTENTIAL OF THE GAS PHASE ON THE REMOVAL OF SULFUR AND NONMETALLIC INCLUSIONS IN THE ELECTROSLAG REMELTING OF STEEL 67-11 M04-80209

OXYACETYLENE CUTTING
CONSIDERATIONS RELATING TO THE QUALITY OF THE FLAME CUT SURFACE OF STEEL PLATE 67-04 M08-66726

OXYACETYLENE WELDING
ALUMINIUM WELDING BY THE OXY-ACETYLENE PROCESS 67-05 M11-68422
REPAIRABLE PROPERTIES OF STRUCTURALLY HARDENED STEEL 67-05 M12-69121
INDUSTRIAL OXYACETYLENE WELDING 67-09 M11-77381
THE NICKEL SILVERS 67-10 M11-78874
AUTOMATIC FLAME ASSEMBLY 67-10 M11-79805
HOW TO ATTACK WEAR 67-11 M11-80663
THE APPLICATION OF WELDING TECHNIQUES IN THE AIR AND IN SPACE 67-12 M11-82464
BURNING-IN OF TIN-BRONZE CASTINGS 67-12 M11-83572

OXYCONVERTERS
SEE OXYGEN BLOWN CONVERTERS

OXYGEN
CHANGE OF THE DISSOLVED OXYGEN CONTENT IN SILICON DEOXIDATION 67-01 M04-58308
OXYGEN PRESSURE IN LIQUID IRON. PT. 6. STUDY OF OXYGEN CONCENTRATION CELLS AT HIGH TEMPERATURE 67-06 M15-72269

OXYGEN, ABSORPTION /MATERIAL/
STRUCTURE AND GROWTH OF THIN OXIDE FILMS ON METALS IN CONTACT WITH OXYGEN 67-01 M18-58702
OXYGEN ABSORPTION AND CREEP STRENGTH OF SINTERED NICKEL ALUMINIDE 67-09 M17-78193

OXYGEN, ACTIVITY /CHEMICAL/
THE ACTIVITY OF OXYGEN IN THE LIQUID FE-PT ALLOY SYSTEM 67-01 M15-58469
THE EFFECT OF SULFUR ON THE ACTIVITY OF OXYGEN IN IRON, COBALT AND NICKEL MELTS AT 1600 C 67-08 M14-75659

OXYGEN, ADSORPTION
ROLE OF OXYGEN IN THE ADSORPTIVE DECREASE IN STRENGTH OF STEEL SPECIMENS IN CONTACT WITH A MELT 67-02 M17-59657
CATHODIC POLARIZATION AND KINETICS OF ADSORPTION OF OXYGEN ON METALS 67-02 M18-58930
SUGGESTIONS REGARDING CERTAIN OXYGEN STRUCTURES FORMED ON THE W --110-- SURFACE 67-05 M13-69039
THE TRANSITION FROM THE LINEAR TO THE PARABOLIC RATE LAW FOR THE OXIDATION OF A METAL TO AN OXIDE WITH A METAL DEFICIT 67-05 M18-69149
MECHANISM OF THE SORPTION OF OXYGEN ON THE --100-- FACE OF A TUNGSTEN SINGLE CRYSTAL 67-06 M15-70870
THE INFLUENCE OF THE OXYGEN ADSORPTION ON THE SURFACE ENERGY OF FCC NICKEL AND BCC SILICON IRON 67-07 M15-73927
ADSORPTION OF OXYGEN ON ATOMICALLY CLEAN GERMANIUM SURFACES EXAMINED IN THE FIELD EMISSION MICROSCOPE 67-07 M16-73607

OXYGEN

CORRELATIONS BETWEEN THE BEHAVIOR DURING BOILING IN THE MOLD AND THE DEGREE OF MACROSCOPIC PURITY OF VARIOUS EFFERVESCENT STEELS 67-10 M04-79098
LEED AND HEED STUDIES OF THE INTERACTION OF OXYGEN WITH SINGLE CRYSTAL SURFACES OF COPPER 67-10 M14-79551
SURFACE STRUCTURES ON SPHERICAL COPPER CRYSTALS AFTER ADSORPTION OF OXYGEN 67-10 M14-79556
LEED STUDIES OF OXYGEN ABSORPTION AND OXIDE FORMATION ON AN --011-- IRON SURFACE 67-10 M14-79567
INVESTIGATION OF THE SURFACE REACTIONS ON COPPER BY SLOW ELECTRON DIFFRACTION METHOD. PT. 2 67-10 M14-79569
THERMALLY ORDERED OXYGEN ON A NICKEL SURFACE 67-10 M14-79572

OXYGEN, ALLOYING EFFECTS
EFFECT OF OXYGEN IMPURITY ON THE STRUCTURE AND SUPERCONDUCTING PROPERTIES OF ZIRCONIUM-NIOBIUM ALLOYS 67-10 M15-79629
THE INFLUENCE OF ALLOYING ELEMENTS ON THE O2 AND N2 CONTENTS OF STEEL, REMELTED IN A VACUUM ARC FURNACE 67-11 M04-80206

OXYGEN, BINARY SYSTEMS
OXIDATION-REDUCTION DIAGRAM 67-01 M14-58368
ON THE P-T-C-REPRESENTATION OF THE NIOBIUM-OXYGEN AND TANTALUM-OXYGEN SYSTEMS 67-02 M13-61889
MAGNETISM OF THE TITANIUM-OXYGEN SYSTEM 67-05 M15-69300
MAGNETIC SUSCEPTIBILITY MEASUREMENTS OF RUTILE AND THE MAGNELI PHASES OF THE TI-O SYSTEM 67-05 M15-69523
THE PHASE DIAGRAM AND PHASE TRANSITION OF THE V203-V205 SYSTEM 67-11 M13-81688
HYDROGEN SOLUBILITY IN ALPHA TI-O ALLOYS 67-12 M14-82747

OXYGEN, CHEMICAL ANALYSIS
BREAKTHROUGH IN ANALYSIS OF LIGHT ELEMENTS 67-02 M19-59630
METHOD OF AND APPARATUS FOR DETERMINING THE OXYGEN CONTENT OF METALS 67-02 M19-60942
RAPID DETERMINATION OF OXYGEN IN METALS BY RADIOACTIVATION 67-02 M19-62066
DETERMINATION OF OXYGEN IN AL AND ZR BY IRRADIATION WITH HE IONS 67-02 M19-62194
CONTRIBUTION TO THE INVESTIGATION OF THE DETERMINATION OF OXYGEN IN BERYLLIUM BY HIGH-VACUUM MELTING 67-03 M19-65251
MICROANALYSIS OF OXYGEN BY A RADIOACTIVE REAGENT 67-03 M19-65252
INVESTIGATION OF THE POSSIBILITIES OF INDUSTRIAL USE OF ACTIVATION ANALYSIS TO DETERMINE OXYGEN AND POSSIBLY NITROGEN AND HYDROGEN IN STEEL. PT. 1 67-04 M19-67216
INVESTIGATION OF THE POSSIBILITIES OF INDUSTRIAL USE OF ACTIVATION ANALYSIS TO DETERMINE OXYGEN AND POSSIBLY NITROGEN AND HYDROGEN IN STEELS. PT. 2 67-04 M19-67217
THE DETERMINATION OF OXYGEN IN METALS, PARTICULARLY IN STEEL, BY ACTIVATION ANALYSIS WITH 14.5 MEV NEUTRONS 67-04 M19-67251
INVESTIGATION OF THE POSSIBILITIES OF INDUSTRIAL USE OF ACTIVATION ANALYSIS TO DETERMINE OXYGEN AND POSSIBLY NITROGEN AND HYDROGEN IN STEELS. PT. 3 67-04 M19-67257
DETERMINATION OF OXYGEN IN TITANIUM BY ISOTOPIC DILUTION 67-06 M19-69904
THE PROBLEMS OF HIGH OXYGEN CONTENT IN LIQUID STEEL AND POSSIBLE METHODS OF CONTROL 67-07 M19-73100
PROGRESS IN THE OXYGEN AND NITROGEN CONTROL IN STEEL PRODUCTION 67-08 M04-74451
EMISSION SPECTROGRAPHIC DETERMINATION OF OXYGEN IN STEEL BY A D-C CARBON ARC METHOD 67-08 M19-74401
OXYGEN CONTENT OF METAL IN OPEN-HEARTH FURNACE AND OXYGEN CONVERTER 67-09 M04-77265
THE DIRECT ELECTROCHEMICAL DETERMINATION OF THE OXYGEN CONTENT OF IRON BATHS. PT. 3. EFFECT OF COBALT, NICKEL, CHROMIUM AND VANADIUM ON THE ACTIVITY OF OXYGEN IN IRON BATHS 67-09 M19-77347
HOW ALLOYING ELEMENTS AFFECT OXYGEN AND NITROGEN CONTENT IN STEEL FROM AN ARC VACUUM FURNACE 67-11 M04-81630
MEASURING OXYGEN CONCENTRATION IN METAL IN AN ARC FURNACE BY THE ELECTROMOTIVE FORCE METHOD 67-12 M04-82306

OXYGEN, CHEMISORPTION
MASS SPECTROMETRIC INVESTIGATION OF THE INTERACTION OF OXYGEN WITH A TUNGSTEN SURFACE 67-05 M16-69036
CHEMISORPTION OF OXYGEN AND HYDROGEN ON NICKEL FILMS--RECONSTITUTION OF THE ADSORBATE-ADSORBENT INTERFACE 67-10 M14-79552
OXYGEN FACETING OF RHODIUM --210-- AND --100-- SURFACES 67-11 M13-81592

OXYGEN, CONCENTRATION /COMPOSITION/
DIRECT ELECTROCHEMICAL DETERMINATION OF THE OXYGEN CONTENT OF METAL MELTS. PT. 2. INVESTIGATIONS CARRIED OUT ON SILVER, TIN AND LEAD MELTS 67-09 M19-77190

OXYGEN, DIFFUSION
DIFFUSION OF OXYGEN WITH UO2 UNDER AN ELECTRIC FIELD AT TEMPERATURES OF 900 TO 1000 C 67-04 M14-67462
THE DIFFUSION ACTIVATION ENERGY OF INTERSTITIAL ELEMENTS IN TRANSITION METALS WITH A BODY-CENTERED LATTICE 67-04 M14-67916
THERMOTRANSPORT OF OXYGEN IN BETA ZIRCONIUM 67-04 M15-66055
DIFFUSION OF OXYGEN AND NITROGEN IN LIQUID IRON 67-06 M14-69924
OXYGEN IN SILVER 67-08 M14-75627
OXYGEN DIFFUSION IN MELTED IRON 67-08 M14-75869
DETERMINING THE RATE OF OXYGEN TRANSFER TO SLAG IN AN OPENHEARTH FURNACE 67-10 M04-79322
CHARACTERISTICS OF GAS SATURATION OF ALPHA-BETA TITANIUM ALLOYS 67-10 M14-79141
HIGH-TEMPERATURE OXIDATION OF TITANIUM 67-10 M18-78668
EFFECT OF DIFFUSED OXYGEN AND GOLD ON SURFACE PROPERTIES OF OXIDIZED SILICON 67-11 M15-80507
DECARBURIZATION OF A LEVITATED IRON DROPLET IN OXYGEN 67-12 M04-82862
SOLUBILITY, PERMEABILITY, AND DIFFUSIVITY OF OXYGEN IN SOLID IRON 67-12 M14-82559
RELATION BETWEEN OXIDATION AND DECARBURIZATION OF CAST IRON 67-12 M18-82450
OXIDATION MECHANISMS FOR NI-AL ALLOYS AT TEMPERATURES BETWEEN 900 AND 1300 C 67-12 M18-82742

OXYGEN, IMPURITIES
THE DEPENDENCE OF THE CONTENT OF OXYGEN IN STEEL ON CERTAIN TECHNOLOGICAL FACTORS 67-05 M04-68739

OXYGEN, INTERSTITIAL DEFECTS
ELECTRON MICROSCOPE STUDY OF NIOBIUM CONTAMINATED BY INTERSTITIAL ELEMENTS 67-02 M14-58926

OXYGEN, PARTIAL PRESSURE
VARIATIONS OF THE ELECTRICAL CONDUCTIVITY OF TITANIUM AND NIOBIUM OXIDES WITH THE PARTIAL BALANCING OF O2 PRESSURE AT HIGH TEMPERATURE 67-10 M15-79708

OXYGEN, PHYSICAL PROPERTIES
EFFECT OF VARIOUS ELEMENTS ON THE GAS SATURATION OF NICKEL AND ITS ALLOYS 67-02 M14-61555

OXYGEN, QUATERNARY SYSTEMS
A NEW QUATERNARY LIWV207.5 PHASE 67-05 M14-68920

OXYGEN, RADIATION EFFECTS
EFFECTS OF RADIATION ON THE OXIDATION AND HYDROGEN ABSORPTION OF ZIRCONIUM ALLOYS IN STEAM 67-02 M18-59024

OXYGEN, REACTIONS /CHEMICAL/
INTERACTION OF OXYGEN WITH HOT TUNGSTEN 67-02 M14-60587
KINETICS OF THE OXYGEN-TUNGSTEN REACTION AT HIGH TEMPERATURES 67-05 M14-68747
REACTIONS OF OXYGEN WITH THE PLATINUM METALS. PT. 2. OXIDATION OF RUTHENIUM, RHODIUM, IRIDIUM AND OSMIUM 67-05 M18-69284
DIRECT ELECTROCHEMICAL DETERMINATION OF THE OXYGEN CONCENTRATION IN LIQUID IRON. PT. 2. EFFECT OF PHOSPHORUS, SULFUR AND CARBON ON THE ACTIVITY OF THE OXYGEN DISSOLVED IN LIQUID IRON 67-07 M04-72719
ADSORPTION, ABSORPTION, AND DEGASSING IN THE OXYGEN-NIOBIUM SYSTEM AT VERY LOW PRESSURE 67-07 M14-73453
KINETIC STUDY OF HIGH-TEMPERATURE OXIDATION OF HF 67-08 M14-75295
THE EFFECT OF ADDITIONS OF MANGANESE, VANADIUM AND CHROMIUM ON THE ACTIVITY OF OXYGEN IN MOLTEN IRON 67-08 M14-76051
EXOELECTRON EMISSION DURING OXYGEN CHEMISORPTION AT

CLEAN NICKEL SURFACES 67-09 M16-77462
MEASUREMENT OF OXYGEN ACTIVITY IN IRON, IRON-SILICON MANGANESE, AND IRON-MANGANESE MELTS USING SOLID ELECTROLYTE GALVANIC CELLS 67-12 M15-82741
OXIDATION OF HF-TA ALLOYS 67-12 M18-82978

OXYGEN, SOLUBILITY
PERMEABILITY, SOLUBILITY, AND DIFFUSIVITY OF OXYGEN IN BCC IRON 67-01 M14-57410
DISSOLUTION OF OXYGEN IN IRON-CARBON MELT DURING DECARBURIZATION 67-04 M04-66075
THE OXYGEN SOLUBILITY IN UNDER-COOLED IRON MELTS 67-07 M04-72476
DETERMINING THE ABSOLUTE SOLUBILITY OF OXYGEN IN MOLTEN IRON, COBALT AND NICKEL 67-09 M14-77271
THE SOLUBILITY OF OXYGEN IN LIQUID COBALT AND NICKEL 67-10 M14-80076
MIGRATION ENERGY AND SOLUBILITY OF OXYGEN IN BODY CENTERED CUBIC IRON 67-11 M14-80375
THE DIFFUSIVITY OF OXYGEN IN LIQUID SILVER 67-12 M14-82984

OXYGEN, SORPTION
THE EFFECT OF OXYGEN ADSORPTION ON THE OXYGEN ANALYSIS OF HIGH-CARBON IRON SPECIMEN CONTAINING GRAPHITE 67-02 M06-59124
STEADY STATES DURING ANNEALING NIOBIUM AND TANTALUM IN OXYGEN 67-06 M14-71666
KINETIC STUDY OF THE ABSORPTION OF OXYGEN FROM THE AIR BY LIQUID SILVER 67-10 M14-79924
DECARBURIZATION OF IRON-CARBON MELTS IN CO2-CO ATMOSPHERES--KINETICS OF GAS-METAL SURFACE REACTIONS 67-12 M04-82955
ADSORPTION OF GASES ON CHROMIUM FILMS 67-12 M14-82671
THE EFFECTS OF ATMOSPHERE ON FATIGUE CRACK PROPAGATION 67-12 M18-82827
STRUCTURE AND GROWTH OF THIN FILMS ON METALS EXPOSED TO OXYGEN 67-12 M18-82891

OXYGEN, TERNARY SYSTEMS
NEW PHASES IN THE ZINC-VANADIUM-OXYGEN SYSTEM 67-02 M14-62195
EQUILIBRIUM OF METAL AND OXIDE SOLIDS IN THE FE-NI-O SYSTEM 67-04 M13-66968
THE URANIUM-CARBON-OXYGEN TERNARY DIAGRAM 67-04 M14-66916
SOLID-PHASE EQUILIBRIA OF WUSTITE-IRON NICKEL ALLOY 67-05 M13-68227
HIGH-TEMPERATURE CONDENSED-PHASE EQUILIBRIA IN THE SYSTEM TI-W-O 67-05 M14-68216
RESEARCH ON THE URANIUM-OXYGEN-CARBON SYSTEM 67-05 M14-68765
EQUILIBRIA IN THE IRON-CARBON-OXYGEN SYSTEM IN THE TEMPERATURE AND CONCENTRATION RANGE OF LIQUID STEEL, AND HOW IT IS INFLUENCED BY PHOSPHORUS, MANGANESE, AND SULPHUR 67-06 M13-70257
THE STRUCTURE OF THE COPPER-NICKEL-OXYGEN SYSTEM AND ITS EFFECT ON THE BEHAVIOR OF NICKEL IN DRY COPPER REFINING 67-08 M03-75693
PHASE RELATIONS IN THE URANIUM MONOCARBIDE REGION OF THE SYSTEM URANIUM-CARBON-OXYGEN AT 1700C 67-08 M13-76079
A STUDY OF PLUTONIUM OXIDES AND THEIR SOLUBILITY IN URANIUM DIOXIDE 67-09 M14-76346
THERMODYNAMIC AND PHASE STUDIES FOR PLUTONIUM AND URANIUM-PLUTONIUM OXIDES WITH APPLICATION TO COMPATIBILITY CALCULATIONS 67-09 M14-76349
REACTIONS OF COMPOUNDS IN THE NB-C-O SYSTEM WITH CO OR CO2 67-09 M14-78220
A NEW PHASE OF NONSTOICHIOMETRIC NATURE IN THE POTASSIUM-OXYGEN-VANADIUM SYSTEM 67-11 M01-81565
DISTRIBUTION OF OXYGEN AND ALUMINUM BETWEEN METALLIC AND OXIDE PHASES IN THE CO-O-AL AND NI-O-AL SYSTEMS 67-11 M13-81154
PHASE EQUILIBRIA AND DISTRIBUTION OF THE ELEMENTS IN THE FE-O-AL SYSTEM 67-12 M13-82108
THE URANIUM-PLUTONIUM-OXYGEN TERNARY PHASE DIAGRAM 67-12 M13-82998

OXYGEN, THERMODYNAMICS
EFFECT OF OXYGEN ON ACTIVITY OF SULFUR DISSOLVED IN MOLTEN IRON AT 1600 C 67-04 M14-66904
EFFECT OF ALUMINUM ON THE ACTIVITY OF OXYGEN DISSOLVED IN MOLTEN IRON 67-04 M14-66953

OXYGEN, TRANSPORT PROPERTIES
ELECTROTRANSPORT OF CARBON, NITROGEN, AND OXYGEN IN THORIUM 67-01 M14-57416

OXYGEN BLOWN CONVERTERS
SEE ALSO KALDO CONVERTERS
LD CONVERTERS
THE KINETICS OF REFINING WITH PARTICULAR REFERENCE TO THE BASIC OXYGEN PROCESS 67-01 M04-57379
OXYGEN LANCING IN THE OPENHEARTH 67-01 M04-57492
APPLICATION OF PILOT-PLANT RESULTS IN THE OPERATION OF COMMERCIAL LD PLANTS 67-01 M04-58105
INDUSTRIAL APPLICATIONS OF PILOT TESTS ON A 6 TON LD/OLP CONVERTER 67-01 M04-58106
DEVELOPMENTS IN RESEARCH ON THE LD AND CG PROCESSES AND THEIR INDUSTRIALIZATION 67-01 M04-58107
KALDO PROCESS--A COMPARISON OF PILOT-PLANT EXPERIMENTS WITH FULL-SCALE OPERATION 67-01 M04-58108
REFRACTORIES FOR BASIC OXYGEN FURNACES 67-01 M04-58454
OXYGEN-CONVERTER PROCESS IN FOUNDRIES 67-01 M06-57472
EFFECT OF OXYGEN ENRICHMENT OF BLASTS ON THE RATE OF ZINC AND LEAD SUBLIMATION FROM SLAGS --INDUSTRIAL TESTS-- 67-02 M03-62216
METHOD FOR THE SELECTIVE REFINING OF STEEL OR OTHER METALS IN OXYGEN CONVERTERS 67-02 M04-59560
STUDY TO ESTABLISH OPTIMUM CONDITIONS FOR BLOWING IN A BASIC CONVERTER MODEL WITH LATERAL BLAST 67-02 M04-59576
IMPROVED DESIGN FOR THE TUYERE TIPS OF A 100-TON OXYGEN CONVERTER 67-02 M04-59699
STUDY OF CONVERTER OPERATION WITH AIR AND STEAM-OXYGEN BASE BLOWING 67-02 M04-59870
OXIDATION PROCESSES IN THE CONVERTER POOL 67-02 M04-60057
ON THE ORDER OF OXIDIZING PHOSPHORUS AND SULFUR IN THE OXYGEN-CONVERTER PROCESS. PT. 1 67-02 M04-60058
STUDIES ON REFRACTORIES OF OPENHEARTH FURNACES IN OXYGEN STEEL MAKING AND THEIR TRANSITION 67-02 M04-60166
DETERMINATION AND INFLUENCE OF JET CHARACTERISTICS IN THE LD AND LD-AC PROCESSES 67-02 M04-60691
MATERIAL AND HEAT BALANCES OF OXYGEN-CONVERTER MELTING 67-02 M04-61740
OPERATION OF CONVERTERS WITH TOP OXYGEN BLAST USING MAGNESIAL SLAGS 67-02 M04-61865
REMOVING SULFUR WITH CONVERTER GASES WHEN BLOWING THE POOL WITH A LOW-INTENSITY OXYGEN JET 67-02 M04-61867
PRODUCING STEEL IN 100-TON OXYGEN CONVERTERS 67-02 M04-61954
INTRODUCING THE PRODUCTION OF OXYGEN CONVERTER STEEL AT THE GUTA COMBINE 67-02 M04-62139
USE OF 14KHGS OXYGEN CONVERTER STEEL FOR PRODUCING ELECTROWELDED TUBING 67-02 M04-62152
STUDY ON THE BLOWING IN BASIC OXYGEN CONVERTER. PT. 1 67-03 M04-65816
BASIC OXYGEN STEELMAKING PRACTICE AT THE LENIN HUTA WORKS 67-04 M04-68181
PRODUCTION OF OXYGEN CONVERTER METAL FOR THE MANUFACTURE OF LOW-TEXTURED ELECTRICAL STEEL 67-05 M04-68321
AUTOMATION OF PRODUCTION CONTROL IN AN OXYGEN CONVERTER WITH SHUTDOWN AT A SPECIFIED CARBON CONTENT 67-05 M04-68545
BEHAVIOR OF MANGANESE IN THE OXYGEN CONVERTER PROCESS 67-05 M04-69678
USING A DIGITAL COMPUTER FOR CONTROLLING THE MELT IN AN OXYGEN CONVERTER 67-05 M04-69679
PROPERTIES OF OXYGEN-CONVERTER VKST. 3KP STEEL 67-05 M17-69042
MECHANISM OF FLOW AND METHOD OF OXIDATION IN AN OXYGEN CONVERTER 67-06 M04-70114
MODELING THE OXYGEN CONVERTER PROCESS ON A COMPUTER 67-06 M04-70269
CERTAIN QUESTIONS IN THE THERMODYNAMICS OF THE OXIDATION REACTION IN THE CONVERTER BATH 67-06 M04-70270
OPERATIONAL ANALYSIS OF STEELMAKING IN OXYGEN CONVERTERS USING THE DNEPR COMPUTER 67-06 M04-70910
OXYGEN CONVERTER MELTING IN FOUNDRIES 67-06 M06-70760
EFFECT OF FORM ON IRON CHIP BRIQUET STRENGTH 67-07 M02-74050
AUTOMATIC REGULATION OF OXYGEN-BLOWN CONVERTER BLOWS TO PRODUCE STEEL WITH A PRESCRIBED CARBON CONTENT 67-07 M04-72456

OXYGEN BLOWN CONVERTERS

CONTINUOUS CASTING AT NOVO LIPETSK 67-07 M04-72810
METAL SUITABLE FOR LITTLE-TEXTURED ELECTRIC STEEL MELTED IN OXYGEN BLOWN CONVERTERS 67-07 M04-72849
PRODUCTION AND QUALITY OF BASIC OXYGEN ALLOY STEELS 67-07 M04-73096
FACTORS AFFECTING THE WEAR RATE OF THE REFRACTORY LINING OF LD CRUCIBLES 67-07 M04-73117
SLAG FORMING IN THE PRODUCTION OF STEEL FROM CARBON-SEMIPRODUCT IN 100-TON CONVERTERS 67-07 M04-73774
TAR-DOLOMITE-MAGNESITE BRICK BASED ON DOLOMITE FROM THE ALEKSEEV SITE 67-07 M05-72608
DEPTH OF PENETRATION OF GAS STREAM INTO LIQUID DURING HORIZONTAL GAS BLOWING 67-08 M04-74327
DECARBURIZATION OF A CONVERTER POOL 67-08 M04-74330
EFFECT OF TECHNOLOGICAL FACTORS ON IRON OXIDE CONTENT IN OXYGEN-CONVERTER SLAG 67-08 M04-74576
PHYSICS OF CONVERTERS IN STEELMAKING 67-08 M04-74882
THE NEW OXYGEN CONVERTER STEEL PLANT OF MANNESMANN AG HUTTENWERKE 67-08 M04-75587
STUDY OF THE CAUSES OF EJECTIONS AND BLAST CONDITIONS IN AN OXYGEN CONVERTER 67-08 M04-76267
AUTOMATIC CONTROL AND REGULATION OF THE LANCE POSITION AND OF THE FLOW OF O2 UNDER PRESSURE IN THE OXYGEN STEEL CONVERTER 67-08 M04-76287
BLOW CONTROL IN TOP-BLOWING OXYGEN CONVERTERS 67-09 M04-76502
METALLURGICAL STUDIES ON OXYGEN STEEL MELTS TOP-BLOWN FROM HIGH-PHOSPHORUS PIG IRON 67-09 M04-76503
SLAG FORMATION WHEN MELTING STEEL FROM A CARBONACEOUS SEMI-PRODUCT IN 100 TON CONVERTERS 67-09 M04-76537
USE OF OXYGEN BURNERS IN STEEL MANUFACTURING 67-09 M04-76698
GASES IN CONVERTER STEEL SMELTED WITH STEAM-OXYGEN AND OXYGEN-CARBON MONOXIDE BLOWS 67-09 M04-76885
BLOWING HIGH-MANGANESE IRON IN AN OXYGEN CONVERTER WITH WATER COOLING 67-09 M04-76893
EXPERIMENTAL RESEARCH INTO TOP OXYGEN-BLOWN CONVERTER STRENGTH 67-09 M04-77044
HOW HEAT LOSSES AFFECT TECHNICAL AND ECONOMIC PERFORMANCE OF 100-TON CONVERTER 67-09 M04-77066
THE OXIDIZING PROCESSES INVOLVED IN BLOWING VANADIUM IRONS IN THE OXYGEN CONVERTER 67-09 M04-77067
TEST HEAT OF STEEL FROM VANADIUM-CONTAINING IRON SEMIPRODUCT BY THE OXYGEN CONVERTER SYSTEM 67-09 M04-77073
CONVERSION OF VANADIUM-CONTAINING IRONS TO VANADIUM SLAG AND SEMIPRODUCT IN OXYGEN AND AIR BLOWN CONVERTERS 67-09 M04-77074
OXYGEN CONTENT OF METAL IN OPEN-HEARTH FURNACE AND OXYGEN CONVERTER 67-09 M04-77265
SLAG FORMATION IN AN OXYGEN CONVERTER 67-09 M04-77266
OXIDATION OF SULFUR, DISSOLVED IN MOLTEN IRON, BY OXYGEN OF THE GAS PHASE 67-09 M04-77267
EXPERIMENTAL MODEL-ASSISTED RESEARCH INTO STRESSED CONDITION OF A CONVERTER SHELL 67-09 M04-77755
MANUFACTURE OF STAINLESS STEEL IN THE TOP BLOWN OXYGEN CONVERTER 67-10 M04-78617
CAUSES OF EJECTIONS AND OF LANCING CONDITIONS IN BASIC OXYGEN FURNACE 67-10 M04-79260
SOME OPTICAL AND PHYSICAL CHARACTERISTICS OF THE BASIC OXYGEN FURNACE FLAME IN THE VISIBLE PART OF THE EMISSION SPECTRUM AND THEIR USE FOR PROCESS CONTROL. PT. 2 67-10 M04-79670
OXYGEN CONVERTER MELTS PRODUCED FROM PIG IRON, POOR IN PHOSPHORUS 67-10 M04-79899
CHANGE IN CHEMICAL MINERALOGICAL COMPOSITION OF TAR-BONDED MAGNESIA REFRACTORIES IN OXYGEN CONVERTERS 67-10 M05-79817
CONSIDERATION ON DECARBURIZATION REACTION IN AN OXYGEN CONVERTER AND THE POSIBILITY OF COMPUTING CONTROL ON ITS BASIS 67-11 M04-80748
PRODUCING HIGH-ALLOY STEELS IN OXYGEN CONVERTERS 67-11 M04-80850
OXIDIZING THE CARBON OF FERROCHROMIUM DURING OXYGEN BLOWING IN THE CONVERTER 67-11 M04-80858
BLOWING METAL WITH OXYGEN AND ADDED FUEL 67-11 M04-81038
ON-BLOW CARBON METER FOR BESSEMER HEATS 67-11 M04-81076
STEEL QUALITY FROM 100-TON OXYGEN CONVERTERS 67-11 M04-81406
ELECTROMAGNETIC STIRRER FOR MOLTEN STEEL 67-11 M04-81605
USE OF A MULTINOZZLE TUYERE FOR BLOWING A HIGH-MANGANESE IRON TO YIELD STEEL AND HIGH-MANGANOUS SLAG 67-11 M04-81620
METHOD OF MAKING A HIGH-GRADE IRON AND STEEL 67-11 M04-81624
CHANGE IN THE AMOUNT OF IMPURITIES IN MOLTEN STEEL DURING THEIR FLOTATION 67-11 M04-81649
NONMETALLIC INCLUSIONS IN METAL DURING THE MELTING PROCESS 67-12 M04-81706
SOME CHARACTERISTICS OF BLOWING VANADIUM IRON WITH OXYGEN WITH A FUEL ADDITIVE 67-12 M04-81708
TUYERE DESIGN FOR REFINING MOLTEN IRON 67-12 M04-81788
PREHEATING AND MELTING OF SCRAP AND PIG IRON WITH AN OIL-OXYGEN BURNER IN THE OXYGEN CONVERTER 67-12 M04-81959
ENRICHED AIR CONVERSION OF HIGH-MANGANESE IRONS TO A SEMIPRODUCT 67-12 M04-82477
CONTRIBUTION TO THE METALLURGY OF THE OXYGEN TOP-BLOWING PROCESS 67-12 M04-82662
THE EFFECT OF METALLURGICAL FACTORS ON THE WEAR OF REFRACTORY LININGS IN OXYGEN TOP-BLOWING CONVERTERS 67-12 M04-82663
MINERALOGICAL INVESTIGATIONS OF THE WEAR OF TAR-BONDED DOLOMITE AND TAR-BONDED MAGNESITE REFRACTORY BRICKS IN OXYGEN CONVERTERS 67-12 M04-83128
CONTRIBUTION TO THE DISCUSSION OF PAPERS CONCERNING REFRACTORY PRODUCTS FOR THE OXYGEN CONVERTER PROCESS 67-12 M04-83129
THE RELATIONSHIP BETWEEN THE TEST PROPERTIES AND DURABILITY OF TAR-DOLOMITE REFRACTORY BRICKS IN OXYGEN CONVERTERS 67-12 M04-83140
METHODS FOR IMPROVING MASONRY AND BOTTOM LIFE OF THE THOMAS CONVERTER 67-12 M04-83346
EXTENDING THE LIFE OF 100-TON CONVERTER LININGS 67-12 M04-83466
IMPROVING LINING LIFE AS A WAY OF INCREASING FURNACE PRODUCTIVITY 67-12 M14-81731
PHASE COMPOSITION OF OXYGEN-CONVERTER PHOSPHATIC SLAGS OF LOW SILICA CONTENT 67-12 M14-82106

OXYGEN BLOWN CONVERTERS, AUTOMATION

REPUBLIC STEEL DEDICATES CLEVELAND BOF SHOP 67-02 M04-60226
MECHANISMS OF GAS FORMATION IN THE OXYGEN CONVERTER PROCESS AND FEASIBILITY OF USING THEM FOR CONTROLLING THE MELT. PT. 1 67-02 M04-62260
LABORATORY ELECTRIC CONVERTER 67-07 M04-73050
OXYGEN CONVERTER SUBMITS TO DIGITAL CONTROL 67-11 M04-81309
AUTOMATION OF BLAST FURNACE AND PURE OXYGEN CONVERTER OPERATION--FRENCH ACHIEVEMENTS 67-12 M04-83203

OXYGEN BLOWN CONVERTERS, DESIGN

INTRODUCTION OF A NEW DESIGN OF MULTIJET OXYGEN LANCE FOR CONVERTERS 67-06 M04-71251
ENGINEERING EXPERIENCE IN BASIC OXYGEN STEELWORKS 67-06 M04-71947
RESEARCH AT WORKS LABORATORIES AND INSTITUTES 67-08 M04-75720
A 50-TON OXYGEN CONVERTER 67-09 M04-77064

OXYGEN BLOWN CONVERTERS, DUST CONTROL

PROBLEMS OF DUST COLLECTION IN THE BASIC OXYGEN CONVERTER 67-06 M04-71948

OXYGEN BLOWN CONVERTERS, HEAT BALANCE

REACTION-ZONE TEMPERATURE DURING DIRECT OXIDATION OF STEEL POOL BY OXYGEN 67-02 M04-62225

OXYGEN BLOWN CONVERTERS, LINING /PROCESS/

HOT REPAIRS TO THE LINING OF BASIC OXYGEN FURNACES 67-07 M04-72437
DEVELOPMENT OF BALANCED BASIC OXYGEN FURNACE LININGS 67-07 M05-73092

OXYGEN BLOWN CONVERTERS, TEMPERATURE CONTROL

AN EXPERIMENT IN PROLONGED MEASUREMENT OF METAL TEMPERATURE IN A 15-TON BESEMER CONVERTER 67-02 M04-60059
DETERMINING ERROR IN MEASURING TEMPERATURE OF METAL IN A BOTTOM-BLOWN CONVERTER 67-03 M04-65959
MEASURING THE TEMPERATURE OF METAL AND GAS IN A

CONVERTER BY PHOTOELECTRIC PYROMETER
67-05 M04-69680
OXYGEN BLOWN CONVERTERS, THERMAL MEASUREMENTS
CONTINUOUS MEASUREMENT OF THE BATH TEMPERATURE IN OXYGEN CONVERTERS AND DATA DERIVED WITH RESPECT TO THE MELTING PROCESS 67-06 M04-70977
OXYGEN BLOWN CONVERTERS, TUYERES
HYDRODYNAMIC INVESTIGATION OF TUYERES ARRANGED IN MANY ROWS IN SIDE-BLOWN CONVERTERS
67-01 M04-58151
COOLED TUYERE 67-02 M04-61068
OXYGEN BLOWN CONVERTERS, WEAR 67-06 M05-71949
CONVERTERS AND LANCES AT THE BAGNOLI WORKS --OF
CONVERTERS AND LANCES AT THE BAGNOLI WORKS --OF ITALSIDER--
ITALSIDER--
67-06 M05-71949
THE MECHANISM OF REFRACTORY WEAR IN OXYGEN CONVERTERS 67-09 M04-77624
MECHANISM OF REFRACTORY WEAR IN OXYGEN CONVERTERS
67-11 M04-80912
OXYGEN CONVERSION PROCESSES
SEE OXYGEN STEEL MAKING
OXYGEN CUTTING
SEE ALSO OXYACETYLENE CUTTING
OXYGEN-FLUX CUTTING OF A FOUR-LAYER BIMETAL PIECE
67-03 M08-65056
PULSED OXYGEN CUTTING 67-03 M11-65052
IMPROVING THE PRODUCTIVITY OF METAL FLAME SCARFING
67-04 M08-66619
MECHANISM FOR AUTOMATIC GAS CUTTING OF STEEL INGOTS IN CONTINUOUS STEEL CASTING MACHINES
67-04 M11-66197
TRANSFORMATIONS AND REACTIONS IN HEAT AFFECTED ZONE DURING WELDING AND OXYGEN CUTTING OF STEEL
67-04 M11-68026
USING THE FLAME TORCH 67-05 M08-69146
NEW TECHNIQUES INCREASE SPEED OF FLAME CUTTING
67-07 M08-72619
OXY-FLUX CUTTING OF FOUR LAYER CLAD METAL SANDWICH
67-07 M08-73977
PULSE OXYGEN CUTTING 67-07 M11-73973
OXYGEN DEMAND
EFFECT OF LIME STRUCTURE IN OXYGEN STEELMAKING
67-04 M04-67029
EFFECT OF THE AMOUNT OF HOT METAL CHARGED UPON THE BASIC OXYGEN LD PROCESS 67-05 M04-69064
PERFORMANCE OF MULTIHOLE COMPARED WITH SINGLE-HOLE LANCE NOZZLES IN BASIC OXYGEN LD STEELMAKING. PT. 2. STUDY OF LANCE NOZZLES IN BASIC OXYGEN LD PROCESS 67-06 M04-72205
THE USE OF OXYGEN ARCH BURNERS IN OPENHEARTH FURNACES 67-07 M04-73224
AUTOMATIC CONTROL OF OPENHEARTH MELTING
67-10 M04-79332
OXYGEN ENRICHMENT
CONSIDERATIONS ON THE PYROMETALLURGY OF CU
67-04 M03-67745
EXPERIMENTAL APPLICATION OF OXYGEN ADDITION IN THE COPPER CONVERTER OF NORTH GERMAN REFINERY
67-05 M03-69119
MELTING GRANULATED HIGH-SILICON COPPER CONCENTRATE IN A CONVERTER WITH OXYGEN-ENRICHED BLAST
67-05 M03-69529
TEMPERATURE CONDITIONS IN THE BLAST-FURNACE HEARTH WITH OXYGEN-ENRICHED BLAST AND NATURAL-GAS INJECTION 67-05 M04-69080
EFFECT OF INTENSITY OF OXYGEN FEED IN THE CONE ON THE PERFORMANCE AND OXIDIZING CAPACITY OF A 900-TON OPENHEARTH FURNACE 67-06 M04-71244
ON THE CONTROL OF THE OXYGEN CONSUMPTION IN A BASIC OXYGEN LD FURNACE. PT. 2. STUDY OF THE END POINT CONTROL IN THE BASIC OXYGEN LD PROCESS
67-06 M04-72201
ON THE CARBON ELIMINATION IN BASIC OXYGEN LD FURNACES WITH A SYSTEM FOR UNBURNED GAS RECOVERY
67-07 M04-72568
POURING HIGHER CARBON RIMMING STEELS WITH THE ADDITION OF OXYGEN TO THE METAL STREAM
67-07 M04-73265
CUPOLA OPERATION, CHEMICAL ASPECTS, CARBURIZATION, MELTING LOSSES
67-07 M04-73488
COMPARISON OF METALLURGICAL FACTORS IN HOT AND COLD BLAST CUPOLAS. PT. 1. IRON TEMPERATURE AND MELTING EFFICIENCY 67-07 M04-73489
EFFECT OF RATE OF OXYGEN SUPPLY TO FLAME ON OPERATIONAL CHARACTERISTICS AND OXYDIZING CAPACITY OF A 900 TON OPENHEARTH FURNACE
67-08 M04-75713
OXYGEN TUYERES FOR METAL 67-09 M04-77756
USE OF OXYGEN TO SMELT VARIOUS TYPES OF IRON AT THE LENIN METALS PLANT GROUP IN NIZHNE-TAGIL
67-10 M04-80039
TEMPERATURE OF THE REACTION ZONE DURING OXYGEN-BLOWING OF PIG IRON 67-12 M19-82107
OXYGEN ENRICHMENT, STEEL MAKING
OXYGEN BLOWING THE BATH OF A 600-TON OPENHEARTH FURNACE 67-10 M04-79824
OXYGEN TO INTENSIFY OPENHEARTH OPERATIONS IN THE TRSNEC STEELMAKING SHOP 67-10 M04-79851
OXYGEN LANCES
HIGH-DENSITY PREPARATION OF HOME SCRAP FOR OPEN HEARTH FURNACES 67-03 M04-65503
USE OF OXYGEN IN THE STEELMAKING PROCESS
67-03 M04-65524
FUEL PRACTICE IN HIGH-OXYGEN OPEN HEARTH FURNACES
67-03 M04-65525
MULTIPLE-JET OXYGEN LANCES FOR BASIC OXYGEN FURNACES 67-03 M04-65762
DEVELOPMENT IN OPERATING TECHNIQUE ON WHYALLA STEEL WORKS 100 TONS. B. O. S. FURNACES
67-04 M04-66111
EFFECT OF LANCE INCLINATION ANGLE UPON THE AMOUNT OF SPLASHING PRODUCED BY A GAS JET IMPINGING ON THE SURFACE OF A LIQUID 67-05 M04-69083
THE SUPERSONIC FLOW CONDITIONS FOR GASEOUS OXYGEN AT A LAVAL NOZZLE. PT. 1. --KINETICS OF BLOWING REACTIONS IN BASIC OXYGEN LD FURNACES--
67-06 M01-72274
CHANGES TO BLOWING CONDITIONS IN SINGLE-HOLE OXYGEN LANCE NOZZLE OPERATION. PT. 1. STUDY OF LANCE NOZZLES IN BASIC OXYGEN LD FURNACE
67-06 M04-72384
PROGRESS IN THE USE OF THE MULTIHOLE OXYGEN LANCE NOZZLE AT THE TSURUMI, JAPAN, BASIC OXYGEN LD PLANT 67-06 M04-72388
EFFECT OF LANCE NOZZLE CONDITION AND METHOD OF CHARGING FLUXES AS COOLANTS UPON THE SLAG IRON CONTENT. PT. 1. STUDY OF SLAG IRON CONTENT IN LOW-CARBON STEELMAKING BY THE BASIC OXYGEN LD PROCESS 67-07 M04-72445
OPERATING RESULTS WITH THE USE OF MULTIPLE-HOLE LANCE NOZZLES AT THE NO. 1 BASIC OXYGEN LD PLANT AT TOBATA --JAPAN-- 67-07 M04-72548
OXYGEN LANCE NOZZLE EXPERIMENTS FOR THE CONTROL OF THE BATH MOTION OF HIGH-PHOSPHORUS HOT METAL IN A 50-TON BASIC OXYGEN FURNACE 67-07 M04-72891
FACTORS AFFECTING THE WEAR RATE OF THE REFRACTORY LINING OF LD CRUCIBLES 67-07 M04-73117
SELECTING OPTIMUM PARAMETERS OF OXYGEN LANCES
67-09 M04-77872
OXYGEN LANCING IN THE OPEN HEARTH
67-09 M04-78134
OXYGEN LANCES, DESIGN
ENGINEERING EXPERIENCE IN BASIC OXYGEN STEELWORKS
67-06 M04-71947
OXYGEN LANCES, HEAT LOSS
DETERMINING HEAT LOSSES FROM 100-TON OXYGEN-BLOWN CONVERTERS INTO THE ATMOSPHERE
67-04 M04-66702
OXYGEN LANCES, MAINTENANCE
MAINTENANCE OF THE VESSEL, CONTROLS, AND LANCE AT SPENCER WORKS 67-06 M04-71950
OXYGEN MELTING
ON THE USE OF OXYGEN IN CONVERTERS AT THE ALAVER COMBINE 67-01 M03-57270
OXIDATION OF CARBON DURING OXYGEN BLOWING OF A HIGH-CHROMIUM BATH 67-02 M04-61744
THE ROLE OF HYDRODYNAMIC FACTORS IN THE DECARBURIZATION OF STEEL 67-03 M04-65953
INCREASING THE OUTPUT OF ARC FURNACES USED FOR MELTING G13L STEEL 67-04 M04-66703
THE PROCESS OF DESULFURIZATION IN AN OXYGEN CONVERTER 67-04 M04-67607
USE OF COLD PIG IRON IN THE BASIC OXYGEN LD FURNACE
67-07 M04-72435
ON THE MELTING OF ALLOY STEELS IN THE BASIC OXYGEN LD FURNACE. PT. 2. THE PRODUCTION OF ALLOY STEELS IN A BASIC OXYGEN FURNACE 67-07 M04-72498
THE USE OF OXYGEN ARCH BURNERS IN OPENHEARTH FURNACES 67-07 M04-73224
OXYGEN POWDER CUTTING
SEE OXYGEN CUTTING
POWDER CUTTING
OXYGEN STEEL MAKING
SEE ALSO FUEL OXYGEN SCRAP PROCESS
KALDO CONVERTERS
LD CONVERTERS

LDAC PROCESS
OXYGEN BLOWN CONVERTERS
SPRAY STEEL MAKING

DESULFURIZATION OF STEEL IN OXYGEN CONVERTERS
67-01 M04-57177

OXYGEN BLOWING OF METAL WITH ADDITION OF FUEL
67-01 M04-57178

OXIDATION OF CHROMIUM AND CARBON DURING OXYGEN BLOWING OF HIGH-CHROMIUM METAL
67-01 M04-57180

THE KINETICS OF REFINING WITH PARTICULAR REFERENCE TO THE BASIC OXYGEN PROCESS
67-01 M04-57379

A THERMOCHEMICAL APPROACH TO PREDICTION OF OPENHEARTH VARIABLES 67-01 M04-57904

FUNDAMENTALS OF CONTROL SYSTEM DESIGN FOR THE BASIC OXYGEN PROCESS 67-01 M04-57905

COMPUTER CONTROL OF THE BASIC OXYGEN PROCESS
67-01 M04-57906

USE OF SCRAP IN THE BOS PROCESS
67-01 M04-58092

UTILIZATION OF SCRAP IN BOS PROCESSES IN SMALL CONVERTERS 67-01 M04-58093

USE OF OXYGEN FOR BLOWING OF THE BATH IN 600-TON OPENHEARTH FURNACES 67-01 M04-58094

DEVELOPMENT IN RECENT STEELMAKING TECHNOLOGY IN JAPAN 67-01 M04-58262

CONTINUOUS CASTING--THE PRESENT STATE OF THE ART
67-01 M04-58488

DESIGN AND OPERATION OF REPUBLICS BOF SHOP AT GADSDEN 67-01 M04-58491

PROGRESS IN OPEN HEARTH STEELMAKING
67-01 M04-58501

JONES AND LAUGHLIN STEEL CORPORATIONS ALIQUIPPA WORKS 67-01 M04-58503

STEELMAKING BY THE SPRAY PROCESS
67-01 M04-58800

REFRACTORIES IN TRANSITION 67-01 M05-58494

BOF PLUS CC EQUALS HIGH PRODUCTION
67-02 M04-59467

REDUCTION OF PRODUCTION COST IN MELTING STAINLESS STEEL 67-02 M04-59568

STUDY TO ESTABLISH OPTIMUM CONDITIONS FOR BLOWING IN A BASIC CONVERTER MODEL WITH LATERAL BLAST
67-02 M04-59576

OXY/FUEL BURNERS IN ELECTRIC ARC STEELMAKING
67-02 M04-59626

METHODS FOR REDUCING CARBON-FREE FERROCHROME CONSUMPTION IN MELTING STAINLESS STEELS WITH OXYGEN 67-02 M04-59860

STUDY OF CONVERTER OPERATION WITH AIR AND STEAM-OXYGEN BASE BLOWING 67-02 M04-59870

REACTION VELOCITIES IN THE BATH OF AN OXYGEN CONVERTER DURING REFINING OF A VANADIUM IRON
67-02 M04-60724

INSTRUMENT ANALYSIS AT THE TOKAI IRON AND STEEL WORKS 67-02 M04-60758

STEEL STRAIGHT FROM THE BLAST FURNACE
67-02 M04-61108

OPERATION OF CONVERTERS WITH TOP OXYGEN BLAST USING MAGNESIAL SLAGS 67-02 M04-61865

THE THEORY OF REMOVAL OF HARMFUL IMPURITIES FROM METAL IN OXYGEN-CONVERTER MELTING
67-02 M04-61866

PRODUCING STEEL IN 100-TON OXYGEN CONVERTERS
67-02 M04-61954

BLOWING OPENHEARTH FURNACE BATHS WITH LOW-CONCENTRATION OXYGEN 67-02 M04-61955

MECHANISMS OF GAS FORMATION IN THE OXYGEN CONVERTER PROCESS AND FEASIBILITY OF USING THEM FOR CONTROLLING THE MELT. PT. 1 67-02 M04-62260

EFFECT OF OXYGEN INJECTION ON THE GRAPHITIZATION AND PROPERTIES OF MALLEABLE CAST IRON
67-02 M17-61913

ELEVATED-TEMPERATURE PROPERTIES OF BASIC-OXYGEN STEEL 67-03 M04-65322

EFFECT OF OXYGEN LANCES ON THERMOCHEMISTRY OF OPEN HEARTH PROCESS 67-03 M04-65501

HIGH-DENSITY PREPARATION OF HOME SCRAP FOR OPEN HEARTH FURNACES 67-03 M04-65503

STATISTICAL ANALYSIS OF OPERATING DATA FROM NO. 2 OPEN HEARTH SHOP, MIDDLETOWN WORKS, ARMCO STEEL CORPORATION 67-03 M04-65506

THE CHANGING OPEN HEARTH 67-03 M04-65507

PROGRESS OF GAS-OXYGEN ROOF BURNERS AT KEYSTONE STEEL AND WIRE COMPANY 67-03 M04-65514

OPERATION OF THE BASIC OXYGEN SHOP AT GREAT LAKES STEEL DIVISION, NATIONAL STEEL CORPORATION
67-03 M04-65517

LD AND LD-AC OPERATING EXPERIENCE
67-03 M04-65518

REVIEW OF OPERATIONS TO DATE, COLORADO FUEL AND IRON CORPORATION, PUEBLO, COLORADO, JONES AND LAUGHLIN STEEL CORPORATION, CLEVELAND, OHIO
67-03 M04-65519

USE OF OXYGEN IN THE STEELMAKING PROCESS
67-03 M04-65524

FUEL PRACTICE IN HIGH-OXYGEN OPEN HEARTH FURNACES
67-03 M04-65525

LIMESTONE AS A COOLANT IN THE BASIC OXYGEN PROCESS
67-03 M04-65530

REFRACTORY PROBLEMS AND TECHNIQUES ON A 230-TON OXYGEN FURNACE 67-03 M04-65531

HEARTH MAINTENANCE AND REFRACTORY USAGE WITH HIGH OXYGEN PRACTICE IN THE OPEN HEARTH
67-03 M04-65532

HEARTH MAINTENANCE AND REFRACTORY USAGE WITH HIGH OXYGEN PRACTICE AT FORD MOTOR COMPANY
67-03 M04-65533

ROLE OF METHANE AND OTHER FACTORS IN CONTROLLING EMISSIONS FROM STEELMAKING PROCESSES
67-03 M04-65544

CONTINUOUS STEELMAKING FROM ORE TO BILLET
67-03 M04-65624

NIPPON KOKANS STEELWORKS IN THE SEA
67-03 M04-65678

MULTIPLE-JET OXYGEN LANCES FOR BASIC OXYGEN FURNACES 67-03 M04-65762

STUDY ON THE BLOWING IN BASIC OXYGEN CONVERTER. PT. 1 67-03 M04-65816

METHODS TO IMPROVE COMPOSITION CONTROL IN 200 TON B. O. S. VESSELS 67-04 M04-66110

DEVELOPMENT IN OPERATING TECHNIQUE ON WHYALLA STEEL WORKS 100 TONS. B. O. S. FURNACES
67-04 M04-66111

LINING PERFORMANCE AND RELINING TECHNIQUES IN A 100 TON B. O. S. FURNACE 67-04 M04-66112

AN OXYGEN BALANCE FOR CARBON LEVEL CONTROL AT NEWCASTLE AND WHYALLA PLANTS 67-04 M04-66114

MANUFACTURING MEDIUM CARBON STEEL FROM HIGH PHOSPHORUS PIG IRON IN THE CONVERTER USING POWDERED LIME 67-04 M04-66204

SINGULARITIES OF MELTING STEEL IN A DUPLEX FURNACE
67-04 M04-66612

A METHOD OF MELTING STEEL 67-04 M04-66704

TOP-BLOWING WITH OXYGEN FOR STEELMAKING IN CONVERTERS USING HIGH-PHOSPHORUS IRON
67-04 M04-66706

CALCULATING THE COOLING EFFECTS OF IRON ORE AND A THERMAL FACTOR FOR CONVERTING FROM ORE TO SCRAP METAL 67-04 M04-66707

WORK OF AN OPENHEARTH FURNACE WITH INTENSIFIED OXYGEN FEED TO THE FLAME 67-04 M04-66845

OXYGEN STEELMAKING OF KILLED AND RIMMING STEELS IN A LARGE OPENHEARTH FURNACE 67-04 M04-66846

DISTRIBUTION OF MANGANESE IN THE METAL-SLAG SYSTEM IN THE CONVERTER PROCESS 67-04 M04-66847

CHEMICAL MODEL OF DESILICONIZING AND DESULFURIZING IRON IN A MIXER 67-04 M04-66848

EVOLVING A NEW TECHNOLOGY FOR STEELMAKING IN OPENHEARTHS 67-04 M04-66849

FEATURES OF LARGE OPENHEARTH FURNACES USING OXYGEN
67-04 M04-66949

PRETREATMENT OF IRON IN THE MIXER AND ITS USE TO MAKE STEEL IN OPENHEARTH FURNACES
67-04 M04-67094

HIGH-PHOSPHORUS IRON PROCESSED IN CONVERTERS BOTTOM-BLOWN WITH A MIXTURE OF CARBON DIOXIDE AND OXYGEN 67-04 M04-67095

THE GAS CONTENTS OF CONVERTER STEEL BLOWN WITH MIXTURES OF STEAM AND OXYGEN OR CARBON DIOXIDE AND OXYGEN 67-04 M04-67228

SOME TECHNOLOGICAL FIGURES IN THE OXYGEN CONVERTER PROCESS USING IRON ORE AND STEEL SCRAP
67-04 M04-67231

OXYGEN BATH BLOWING USING TUYERES OF DIFFERENT DESIGN 67-04 M04-67238

THE OPTICAL AND PHYSICAL PROPERTIES OF THE GAS CURRENTS IN BASIC OXYGEN-BLOWN CONVERTERS WITHIN THE VISIBLE PART OF THE SPECTRUM, AND THEIR CONNECTION WITH THE TECHNOLOGICAL PARAMETERS OF BLOWS 67-04 M04-67239

MODELING THE DESULFURIZATION PROCESS IN THE BATH OF A CONVERTER TOP-BLOWN WITH OXYGEN
67-04 M04-67240

EXPERIENCES IN INCREASING THE PRODUCTION OF ARC FURNACES IN A HIGH-ALLOY STEEL WORKS
67-04 M04-67408

MANUFACTURE OF STEEL FOR BOILER TUBE IN BOF AND QUALITY THEREOF 67-04 M04-67512
OXYGEN-LANCED CONVERTERS RUN WITH MAGNESIUM SLAGS 67-04 M04-67684
REMOVING HARMFUL IMPURITIES FROM THE METAL IN OXYGEN CONVERTER STEELMAKING 67-04 M04-67685
MELTING STEEL IN 100 TON OXYGEN-BLOWN CONVERTERS 67-04 M04-67772
LANCING OPEN-HEARTH FURNACE BATHS WITH LOW CONCENTRATION OXYGEN 67-04 M04-67773
OPENHEARTH OPERATION WHEN BLOWN WITH OXYGEN-HYDROGEN MIX 67-04 M04-67866
MAKING LOW-CARBON STEEL BY BLOWING THE BATH WITH AN OXYGEN-HYDROGEN MIXTURE IN A LARGE OPENHEARTH FURNACE 67-04 M04-67871
POWDERED OR LUMPY LIME FOR THE BASIC OXYGEN FURNACE 67-04 M04-68045
HIGH SCRAP CHARGE IN THE BOF UTILIZING SOLID FUEL 67-04 M04-68108
USE OF 14KHGS OXYGEN-CONVERTER STEEL IN PRODUCTION OF ELECTRICALLY-WELDED PIPES 67-04 M04-68194
PRODUCTION OF OXYGEN CONVERTER METAL FOR THE MANUFACTURE OF LOW-TEXTURED ELECTRICAL STEEL 67-05 M04-68321
MATERIAL AND THERMAL BALANCE OF OXYGEN CONVERTERS 67-05 M04-68460
AUTOMELT SYSTEM FOR BASIC OXYGEN STEELMAKING COMPUTER CONTROL 67-05 M04-68602
FACTORS AFFECTING THE PERFORMANCE OF OXYGEN STEELMAKING LININGS 67-05 M04-68643
FORMATION OF SLAG AND DEPHOSPHORIZATION IN THE EARLY STAGES OF THE BASIC OXYGEN LD PROCESS 67-05 M04-68733
COMPUTERIZED CONTROL OF THE BASIC OXYGEN LD PROCESS. PT. 1. THE CARBON ELIMINATION REACTION IN THE BASIC OXYGEN LD FURNACE AND THE POSSIBILITY OF CONTINUOUS DETERMINATION OF THE BATH CARBON CONTENT 67-05 M04-69062
REMOVAL OF SULFUR IN THE GAS PHASE OF THE BASIC OXYGEN LD PROCESS 67-05 M04-69063
EFFECT OF THE AMOUNT OF HOT METAL CHARGED UPON THE BASIC OXYGEN LD PROCESS 67-05 M04-69064
EFFECT OF LANCE INCLINATION ANGLE UPON THE AMOUNT OF SPLASHING PRODUCED BY A GAS JET IMPINGING ON THE SURFACE OF A LIQUID 67-05 M04-69083
THE MOVEMENT OF HYDROGEN BETWEEN METAL AND SLAG IN STEELMAKING 67-05 M04-69325
CHARACTERISTICS OF CHARGING AND HEATING PERIODS DURING INTENSIVE OXYGEN BLOWING OF METAL BATH 67-05 M04-69507
PRODUCTION OF TRANSFORMER STEEL BY THE OXYGEN-CONVERSION METHOD 67-05 M04-69508
SPRAY STEELMAKING PROVED IN PRACTICE 67-05 M04-69870
THE SUPERSONIC FLOW CONDITIONS FOR GASEOUS OXYGEN AT A LAVAL NOZZLE. PT. 1. --KINETICS OF BLOWING REACTIONS IN BASIC OXYGEN LD FURNACES-- 67-06 M01-72274
MECHANISM OF FLOW AND METHOD OF OXIDATION IN AN OXYGEN CONVERTER 67-06 M04-70114
CERTAIN QUESTIONS IN THE THERMODYNAMICS OF THE OXIDATION REACTION IN THE CONVERTER BATH 67-06 M04-70270
ON THE AMOUNT AND COMPOSITION OF DUST WHEN PRODUCING STEEL IN BASIC ELECTRIC FURNACES 67-06 M04-70277
THE INTRODUCTION OF OXYGEN INTO A MIXED GAS FLAME 67-06 M04-70454
EFFECT OF INTENSITY OF OXYGEN FEED IN THE CONE ON THE PERFORMANCE AND OXIDIZING CAPACITY OF A 900-TON OPENHEARTH FURNACE 67-06 M04-71244
B. I. S. R. A. SPRAY STEELMAKING PROCESS 67-06 M04-71296
ENGINEERING EXPERIENCE IN BASIC OXYGEN STEELWORKS 67-06 M04-71947
MAINTENANCE OF THE VESSEL, CONTROLS, AND LANCE AT SPENCER WORKS 67-06 M04-71950
LANCE AND VESSEL IMPROVEMENT IN LD PRACTICE 67-06 M04-71952
KALDO OPERATIONS AT PARK GATE 67-06 M04-72002
EFFECT OF VARIOUS FACTORS ON THE MANGANESE CONTENT OF THE METAL BATH IN THE BASIC OXYGEN LD PROCESS 67-06 M04-72203
PERFORMANCE OF MULTIHOLE COMPARED WITH SINGLE-HOLE LANCE NOZZLES IN BASIC OXYGEN LD STEELMAKING. PT. 2. STUDY OF LANCE NOZZLES IN BASIC OXYGEN LD PROCESS 67-06 M04-72205
REFINING IN BASIC OXYGEN LD STEELMAKING 67-06 M04-72206
EFFECT OF FLUXES USED AS COOLANTS ON BLOWING TIME AND METAL YIELDS. PT. 2. STUDY OF IRON CONTENT OF SLAG IN LOW-CARBON STEEL MADE BY THE BASIC OXYGEN LD PROCESS 67-06 M04-72215
EFFECT OF RATE OF CARBON ELIMINATION UPON THE FORMATION OF OXIDE FUMES IN THE OXYGEN BLOWING OF STEEL. PT. 1. FORMATION OF IRON OXIDE FUMES IN CARBON ELIMINATION PROCESSES 67-06 M04-72217
PRODUCTION OF CARBON AND ALLOY CONSTRUCTIONAL STEELS IN A BASIC OXYGEN LD FURNACE 67-06 M04-72272
GAS FLOW AROUND THE IMPINGEMENT ZONE IN THE BASIC OXYGEN LD PROCESS 67-06 M04-72283
THE EFFECT OF MILLSCALE ON THE BASIC OXYGEN LD PROCESS 67-07 M04-72444
EFFECT OF LANCE NOZZLE CONDITION AND METHOD OF CHARGING FLUXES AS COOLANTS UPON THE SLAG IRON CONTENT. PT. 1. STUDY OF SLAG IRON CONTENT IN LOW-CARBON STEELMAKING BY THE BASIC OXYGEN LD PROCESS 67-07 M04-72445
USE OF LIME WITH FE203 ADDITIONS IN A BASIC OXYGEN LD FURNACE 67-07 M04-72446
CONTRIBUTION TO THE STUDY OF DEPHOSPHORIZATION IN THE OXYGEN TOP-BLOWING CONVERTER 67-07 M04-72475
IMPROVEMENT OF REFRACTORIES AND BASIC OXYGEN LD PLANT OPERATION AT KUKIOKA, JAPAN 67-07 M04-72495
BEHAVIOR OF SULFUR IN THE BASIC OXYGEN PROCESS WHEN BLOWING DEAD-SOFT STEEL 67-07 M04-72500
INJECTION OF POWDERED MATERIALS INTO ELECTRIC ARC FURNACE TO ACCELERATE THE STEELMAKING REACTIONS 67-07 M04-72546
MELTING LOSSES IN STEELMAKING PROCESSES 67-07 M04-72563
ON THE CARBON ELIMINATION IN BASIC OXYGEN LD FURNACES WITH A SYSTEM FOR UNBURNED GAS RECOVERY 67-07 M04-72568
MECHANISM AND RATE OF THE REACTIONS IN THE BASIC OXYGEN PROCESS. PT. 1-2 67-07 M04-72702
REFINING WITH A PULSATING OXYGEN BLAST 67-07 M04-72722
IRON LOSSES IN WASTE GAS IN THE PRODUCTION OF OXYGEN BLOWN STEELS 67-07 M04-72723
METAL SUITABLE FOR LITTLE-TEXTURED ELECTRIC STEEL MELTED IN OXYGEN BLOWN CONVERTERS 67-07 M04-72849
OXYGEN LANCE NOZZLE EXPERIMENTS FOR THE CONTROL OF THE BATH MOTION OF HIGH-PHOSPHORUS HOT METAL IN A 50-TON BASIC OXYGEN FURNACE 67-07 M04-72891
THE METALLURGY OF THE BASIC OXYGEN PROCESSES 67-07 M04-72892
THE HYDROGEN CONTENT IN THE PRODUCTION OF BASIC OXYGEN STEELS 67-07 M04-72910
DUST EXTRACTION FROM BASIC OXYGEN FURNACES WITH SUPPRESSED COMBUSTION 67-07 M04-72911
PLANNING AND CONSTRUCTION OF THE DUST EXTRACTION EQUIPMENT OF A BASIC OXYGEN STEEL PLANT AND INITIAL OPERATING EXPERIENCE 67-07 M04-72912
AUTOMATIC SLAG CONTROL IN THE BASIC OXYGEN PROCESSES 67-07 M04-73030
PRODUCTION AND QUALITY OF BASIC OXYGEN ALLOY STEELS 67-07 M04-73096
HIGH CARBON STEEL PRODUCTION ON THE BOF 67-07 M04-73097
IMPORTANCE OF THE BASIC OXYGEN LD PROCESS FOR STEEL FOUNDRIES. PT. 1 67-07 M04-73248
SLAG FORMING IN THE PRODUCTION OF STEEL FROM CARBON-SEMIPRODUCT IN 100-TON CONVERTERS 67-07 M04-73774
BEHAVIOUR OF MANGANESE IN THE BASIC OXYGEN PROCESS 67-07 M04-74064
MEASURING METAL AND GAS TEMPERATURES IN CONVERTERS WITH A PHOTO-ELECTRIC PYROMETER 67-07 M04-74066
OG GAS RECOVERY EQUIPMENT IMPROVES YIELD OF BOF PLANT 67-07 M20-72620
DECARBURIZATION OF A CONVERTER POOL 67-08 M04-74330
EFFECT OF TECHNOLOGICAL FACTORS ON IRON OXIDE CONTENT IN OXYGEN-CONVERTER SLAG 67-08 M04-74576
IRON FOR STEELMAKING AT CORBY 67-08 M04-74656
THE INFLUENCE AND ACTION OF SLAG FOAMING IN THE BLOWING OF LOW-PHOSPHORUS PIG IRON IN THE OXYGEN CONVERTER 67-08 M04-76286
THE LOGISTICS OF CONTINUOUS CASTING 67-09 M04-77009
LOGISTICS IN STEELMAKING 67-09 M04-77098

OXYGEN STEEL MAKING

LOGISTICS IN STEELMAKING 67-09 M04-77147
DEVELOPMENT OF OXYGEN IN IRON AND STEEL MAKING WITH SPECIAL REFERENCE TO BRITAIN 67-09 M04-77542
ALLOYS FOR STAINLESS STEEL 67-09 M04-77581
OXYGEN TUYERES FOR METAL 67-09 M04-77756
HYDRODYNAMIC FACTORS AND KINETICS OF THE DECARBURIZATION OF COMPLEX MELTS 67-09 M04-77854
SIMULATING THE EXPLOSIVE REACTION OF CARBON OXIDATION IN CONVERTER WITH BOTTOM BLOWING 67-09 M04-77857
METAL ACIDITY IN THE OXYGEN CONVERTER PROCESS 67-09 M04-77858
THE MELT FINISHING PERIOD IN A TWO-POOL STEELMAKING FURNACE 67-09 M04-77859
SELECTING OPTIMUM PARAMETERS OF OXYGEN LANCES 67-09 M04-77872
SOME TECHNOLOGICAL CHARACTERISTICS OF OPENHEARTH PRODUCTION WITH OXYGEN BLOWING 67-09 M04-77873
WHAT MAKES THE TOC PROCESS TICK 67-10 M04-78568
BASIC OXYGEN FURNACES MAKE QUALITY ALLOY STEEL 67-10 M04-78765
THE REFINING OF HIGH-P PIG IRON BY THE OXYGEN CONVERTER PROCESS WITH CLASSIFIED, FINE-GRAINED STEELMAKING LIME 67-10 M04-78787
MODELING HIGH-CAPACITY OXYGEN CONVERTERS 67-10 M04-79320
BEHAVIOR OF NITROGEN DURING THE BLOWING OF MOLTEN METAL WITH OXYGEN THROUGH A LANCE IN THE PRODUCTION OF LOW CARBON STEEL 67-10 M04-79324
EXCHANGE OF HYDROGEN BETWEEN SLAG AND METAL IN THE VARIOUS STEELMAKING PROCESSES 67-10 M04-79672
THE AMOUNT AND COMPOSITION OF THE DUST PRODUCED WHILE MELTING STEEL IN THE BASIC ELECTRIC FURNACE 67-10 M04-79673
INVESTIGATION OF THE REFINING PROCESS IN THE OXYGEN TOP BLOWING METHOD WITH HIGH-PIG IRON WITH VARYING MN CONTENTS 67-10 M04-79698
EXPERIMENTS WITH A NEW MELTING FURNACE FOR FERROUS MATERIALS 67-11 M04-80402
MANUFACTURE OF STAINLESS STEEL IN THE TOP-BLOWN OXYGEN CONVERTER 67-11 M04-80563
CONSIDERATION ON DECARBURIZATION REACTION IN AN OXYGEN CONVERTER AND THE POSIBILITY OF COMPUTING CONTROL ON ITS BASIS 67-11 M04-80748
QUALITY OF AXLE STEEL WHEN BATH IS OXYGEN-BLOWN 67-11 M04-80854
RATE OF DECARBURIZATION AND DECARBURIZATION IN STEELMAKING IN THE OXYGEN CONVERTER 67-11 M04-81373
SLAG CONDITIONS IN OPENHEARTH STEELMAKING WITH OXYGEN LANCED TO FLAME AND BATH 67-11 M04-81404
EXPERIMENTAL USE OF OXYGEN IN PANEL FURNACE STEELMAKING 67-11 M04-81609
OXYGEN INTENSIFICATION PRACTICE ON 230-TON OPENHEARTHS. PT. 1 67-11 M04-81610
THE OPTIMUM OXYGEN CONCENTRATION IN THE BLAST MIXTURE WHEN BLOWING AN OPENHEARTH FURNACE 67-11 M04-81646
OXIDIZING CAPACITY OF AN OPENHEARTH FURNACE DURING VARIOUS METHODS OF INTENSIFICATION 67-11 M04-81647
OXYGEN INTENSIFICATION PRACTICE ON 230-TON OPENHEARTHS. PT. 2 67-12 M04-81779
HOW SCRAP AMOUNTS AFFECT THE WORK OF AN OXYGEN-INTENSIFIED OPENHEARTH FURNACE 67-12 M04-81780
SOME TECHNOLOGICAL ASPECTS PECULIAR TO OPENHEARTH INTENSIFICATION WITH OXYGEN 67-12 M04-81782
SCRAP MELTING IN THE OXYGEN CONVERTER PROCESS 67-12 M04-81863
THE INFLUENCE OF MECHANICAL PROCESSES IN AN OXYGEN CONVERTER AND THEIR SIGNIFICANCE FOR THE IMPORTANT REACTIONS 67-12 M04-81959
OXYGEN STEELMAKING IN THE BASIC OPENHEARTH FURNACE 67-12 M04-83074
THE PRESENT STATUS OF PRODUCTION OF COLD WIDE STRIP OF STAINLESS STEEL AT THE DUETSCHEN HIGH-GRADE STEELWORKS 67-12 M04-83286
AN ECONOMIST LOOKS AT OPENHEARTH STEELMAKING 67-12 M04-83455

OXYGEN STEEL MAKING, AUTOMATIC CONTROL
COMPUTER APPLICATIONS IN THE CONTROL OF THE LD PROCESS IN A CONVERTER STEEL WORKS 67-03 M04-65077

OXYGEN STEEL MAKING, AUTOMATION
AN ALGORITHM FOR CONTROLLING THE TECHNOLOGICAL PROCESS OF RUNNING OXYGEN-BLOWN CONVERTERS 67-04 M04-66708
OXYGEN STEELMAKING 67-05 M04-69172
USE OF DIGITAL COMPUTERS IN OXYGEN STEEL PLANTS 67-07 M04-72903
DIGITAL COMPUTER USED FOR CONTROLLING OXYGEN-BLOWN CONVERTER BLOWS 67-07 M04-74065
CLOSED-LOOP COMPUTER CONTROL OF BASIC OXYGEN STEELMAKING 67-09 M04-76671
OXYGEN STEELMAKING 67-09 M04-77565
AUTOMATION AND PROCESS CONTROL OF BLAST FURNACES AND OXYGEN-BLOWN STEEL WORKS 67-09 M04-77579
USE OF COMPUTERS TO CONTROL OXYGEN CONVERTERS 67-11 M04-81612
DEVELOPMENT AND OPERATION OF BOF DYNAMIC CONTROL. PT. 1 67-12 M04-82884
A CLOSED-LOOP CONTROL SYSTEM FOR THE BASIC OXYGEN STEEL PROCESS 67-12 M04-83595

OXYGEN STEEL MAKING, DUST CONTROL
IMPROVED TECHNIQUES FOR PROCESSING STEEL PLANT FINES 67-08 M19-75318

OXYGEN STEEL MAKING, FUELS
HIGH SCRAP CHARGE IN THE B. O. F. UTILIZING SOLID FUEL 67-06 M04-70976

OXYGEN STEEL MAKING, HEAT BALANCE
EFFECT OF METAL COMPOSITION ON TEMPERATURE CONDITIONS OF REACTION ZONE IN OXYGEN BLOWING 67-02 M04-61209

OXYGEN STEEL MAKING, TEMPERATURE CONTROL
THE DROP IN TEMPERATURE BETWEEN THE END POINT OF THE BLOW AND THE TAP IN THE BASIC OXYGEN LD PROCESS. PT. 1. THE TEMPERATURE DROP BETWEEN END POINT OF BLOW AND POURING IN THE BASIC OXYGEN LD PROCESS 67-06 M04-72387

OXYGENATION
A NEW TYPE OF OXYGENATED BRONZES--THE MIXED VANADIUM-MOLYBDENUM BRONZES WITH A LITHIUM INSERTION 67-12 M13-82285

OXYHYDROGEN CUTTING
SEE OXYGEN CUTTING

OXYKINETIC PROCESS
SEE OXYGEN CUTTING

OXYPROPANE CUTTING
SEE OXYGEN CUTTING

P CONDUCTIVITY
SEE HOLE CONDUCTIVITY

PACK CARBURIZING
A STUDY OF PACK CARBURIZING AND SOME CASE HARDENING TECHNIQUES ON 3 PER CENT NI, 1 PER CENT CR CASE HARDENING STEEL 67-07 M10-73201
THE EFFECT OF TIME AND TEMPERATURE ON THE QUALITY AND DEPTH OF CASE, PRODUCED BY PACK CARBURIZING A LOW ALLOY STEEL, EN. 354 67-08 M10-76200

PACK CEMENTATION
SEE PACK CARBURIZING

PACK ROLLING
PRODUCTION OF TWO-LAYER STEEL SHEET PACKS 67-02 M07-58876
INFLUENCE OF THE INTERMEDIATE NI FILM ON STRUCTURE AND PROPERTIES OF BIMETAL STEEL 67-04 M12-66373
DEPENDENCE OF BOND QUALITY ON THE ROLLING CONDITIONS OF BIMETAL 67-08 M12-75215
EFFECT OF THE THICKNESS OF INTERMEDIATE NICKEL COATINGS ON THE STRUCTURE AND PROPERTIES OF TWO-LAYER STEEL PLATES 67-11 M12-80975

PACKAGING
HIGH STRENGTH LOW CARBON STEELS IN RIGID PACKAGES 67-01 M20-57985
METAL CONTAINERS FOR THE TRANSPORTING AND STORAGE OF CHEMICALS 67-03 M20-65728
WEATHER RESISTANT TRANSPARENT LACQUERS ON AL 67-06 M12-71983
ECONOMIC AND TECHNICAL ASPECTS OF THE PACKAGING OF ALUMINUM EXTRUSIONS 67-06 M19-71838
STEEL FOIL FINDS PACKAGING RECEPTIVE BUT TROUBLESOME 67-07 M20-73799
PACKAGING APPLICATIONS 67-08 M20-74835

PACKET ROLLING
SEE PACK ROLLING

PACKING /CRYSTAL DENSITY/
SEE CRYSTAL STRUCTURE

PACKING FRACTION

SEE BINDING ENERGY /NUCLEAR/
PAINTING
SEE ALSO HOT DIP PAINTING
SPRAY PAINTING
NEW WAY TO COAT EXTRUSIONS--PLATE THEM WITH PAINT 67-01 M12-57927
ASSEMBLY LINES FOR PAINTING 67-01 M12-58433
ELECTROPAINTING AT SMITHS INDUSTRIES WITNEY PLANT 67-02 M12-60902
EUROPES WIDEST ALUMINIUM PRE-PAINT LINE 67-02 M12-60903
ELECTROPLATING PLANT RECORD SIZE 67-02 M12-60927
ELECTRODEPOSITION COMES TO CANADA 67-02 M12-60928
STEEL SWIMMING POOLS 67-02 M20-60040
ELECTROPHORETIC PAINTING OF MOTOR-CAR COMPONENTS AND ACCESSORIES 67-03 M12-65152
ELECTROCOATING ALUMINUM EXTRUSIONS 67-03 M12-65486
ELECTROPHORETIC PAINTING IMPROVES QUALITY 67-03 M12-65564
HOW TO SELECT ZINC-COATED STEELS FOR PAINTING 67-03 M12-65665
SMITHS INDUSTRIES ADOPT ELECTROPAINTING TECHNIQUE 67-03 M12-65698
EUROPES BIGGEST ALUMINIUM PRE-PAINT LINE 67-03 M12-65699
CORROSION PREVENTION BY ZINC-RICH PAINT SYSTEMS 67-04 M12-66659
ELECTROPAINTING AT MASSEY-FERGUSON TRACTORS 67-04 M12-66720
ZINC PAINTS YIELD OPTIMUM CORROSION RESISTANCE 67-04 M18-66333
FURTHER RESULTS WITH NEW METAL-PIGMENTED PAINTS 67-05 M12-68830
RADIATION EFFECTS ON PAINTS--EFFECTIVE COATINGS VITAL TO NUCLEAR INDUSTRY 67-05 M16-68794
IT CHARTS, CONTROLS THICKNESS OF PAINT FILM AUTOMATICALLY IN COIL COATING 67-05 M19-69877
PROTECTION BY ELECTROPAINTING 67-06 M12-70232
PAINTING GALVANIZED STEEL 67-06 M12-70690
STAINLESS STEEL FLAKES FOR RESISTANT COATINGS 67-06 M12-71559
PHOTO EMULSION COATINGS SPRAYED ELECTROSTATICALLY 67-06 M12-71560
PROTECTION OF FERROUS CONSTRUCTION AGAINST CORROSION 67-06 M18-71730
EVALUATION OF ZINC SURFACES FOR COATING INDUSTRIAL PRODUCTION LINE PRODUCTS 67-07 M12-72992
ELECTROCOAT PAINTING OF PETROL TANKS 67-07 M12-73160
CORROSION BEHAVIOR OF ZINC DUST-CONTAINING PAINTS AND OF HOT DIP GALVANIZED COATINGS IN INDUSTRIAL ATMOSPHERES 67-07 M18-73236
THE PAINTING OF METAL-SPRAYED STRUCTURAL STEEL 67-07 M18-73641
DEVELOPMENTS IN PRETREATMENT AND FINISHING OF ZINC-COATED PRODUCTS 67-08 M12-74396
FIVE YEAR TEST RESULTS--AISI RESEARCH PROJECT ON PAINTABILITY OF GALVANIZED STEEL 67-08 M12-74475
TWO PAGES OF REPRODUCIBLE DATA TABLES--PROTECTIVE FINISHES 67-08 M12-74602
FIRST ELECTRODEPOSITION LINE PAINTS DISKS 67-08 M12-74729
PAINTING AND OTHER ORGANIC COATING 67-08 M12-74858
VERSATILE COIL COATING LINE FOR SPAIN 67-08 M12-74949
CONTINUOUS STRIP COATING LINE IN SPAIN 67-08 M12-76195
PAINT PLATING--EFFICIENT APPROACH TO FINISHING 67-09 M12-77491
RECENT EXAMPLES OF EXPOSED GALVANIZED PAINTED PANELS AND STRUCTURES 67-09 M12-77661
CHEMICAL TREATMENT OF METAL SURFACES PRIOR TO PAINTING 67-09 M12-78196
THE SELECTION OF CHEMICAL TREATMENTS OF ANTICORROSION PROTECTION AND PAINT ADHESION ON METAL SURFACES--A CONTINUOUS COAT 67-09 M18-77704
PROTECTIVE COATINGS FOR GALVANIZED STEEL 67-10 M12-78525
ELECTROSTATIC SETUP PAINTS LONG SLENDER ALUMINUM EXTRUSIONS 67-10 M12-79105
ELECTRODEPOSITING PAINT--MATERIALS, PROCEDURES, EQUIPMENT 67-10 M12-79309
THE COMPATIBILITY OF PAINTS WITH CATHODIC PROTECTION 67-10 M18-79296
THE EVALUATION OF CORROSION PROBLEMS. PT. 3 67-10 M18-79297
ELECTROPHORETIC PAINT APPLICATION AND INSTALLATION 67-11 M12-80667
CORROSION PROTECTION 67-11 M12-81358
SAFETY AND STATISTICAL INVESTIGATION OF THE FATIGUE BEHAVIOR OF SPECIMENS WITH SEVERAL CONCURRENT NOTCHES ON ZN-POWDER PRIMED STRIPS WITH WELDED TRANSVERSE REINFORCING STRIPS 67-11 M17-81382
FATIGUE TESTING OF WELDED JOINTS OF ST. 37, WITH AND WITHOUT, PAINTING 67-11 M17-81383
ELECTROCOATING ALUMINUM EXTRUSIONS 67-12 M12-81934
ELECTROPHORETIC PAINT APPLICATION AND INSTALLATION 67-12 M12-82706
PAINTS
STAINLESS STEEL PAINTS 67-05 M12-68492
ELECTRODEPOSITED PAINT PROTECTS SHARP EDGES 67-05 M12-68679
ZINC SILICATE COATINGS FOR STEEL 67-08 M12-74615
USES IN PIGMENTS AND PAINTS 67-08 M20-74836
PAINTS, CORROSION
STAINLESS STEEL PIGMENTED COATINGS 67-04 M12-66800
PAINTS, PROTECTIVE COATINGS
THE MECHANISM OF PROTECTION BY ORGANIC COATINGS 67-03 M18-65153
PROTECTION OF STRUCTURAL STEEL BY FLAME-SPRAYED METALS AND PAINTS 67-05 M12-68820
CORROSION AND THE DETERMINATION OF THE EFFECTIVENESS OF CORROSION PROTECTION, PT. 2 67-06 M18-71179
PAIR PRODUCTION
STUDY OF PHASE TRANSITION IN NBO2 67-08 M13-75251
PALLADIUM
PALLADIUM 67-04 M01-66600
PALLADIUM--ITS OCCURRENCE, RECOVERY, PROPERTY AND USES 67-08 M01-75329
PALLADIUM, ADHESION
SOME FUNDAMENTAL PROBLEMS IN THE MEASUREMENT OF STICKING PROBABILITIES OF GASES ON METAL FILMS 67-07 M15-74265
PALLADIUM, ALLOYING ADDITIVE
CORROSION RESISTANCE OF TITANIUM IN NITRIC ACID 67-04 M18-66642
PROPERTIES OF SILVER ALLOYS, CONTAINING SMALL AMOUNTS OF PALLADIUM AND CADMIUM 67-06 M15-69987
THE FEASIBILITY OF LOWERING THE FLAKING SUSCEPTIBILITY OF STEEL BY ADDING SMALL AMOUNTS OF PALLADIUM 67-06 M17-69977
THE ROLE OF PALLADIUM IN ENHANCING CORROSION RESISTANCE OF TITANIUM 67-07 M18-72543
EFFECT OF CERTAIN ALLOYING ELEMENTS ON THE STRENGTH AND PLASTICITY OF TITANIUM IN THE -196 TO 800 C. TEMPERATURE RANGE 67-11 M17-81163
ACTIVATION SINTERING OF TUNGSTEN WITH ADDITIONS OF PALLADIUM 67-12 M09-82207
THE CORROSION BEHAVIOR OF PALLADIUM IN TITANIUM-PALLADIUM ALLOY 67-12 M18-82501
PALLADIUM, ATOMIC PROPERTIES
DISPERSION ENERGIES AND SURFACE TENSIONS OF NOBLE METALS 67-08 M16-75384
ELECTRONIC STRUCTURE AND PROPERTIES OF PALLADIUM AND ITS ALLOYS 67-10 M16-78723
PALLADIUM, BAND THEORY
INTERPOLATION SCHEME FOR BAND STRUCTURE OF NOBLE AND TRANSITION METALS--FERROMAGNETISM AND NEUTRON DIFFRACTION IN NI 67-03 M16-65027
PALLADIUM, BINARY SYSTEMS
SOME NOTES ON THE PALLADIUM-SILICON SYSTEM 67-04 M13-68156
THE HYDROGEN-PALLADIUM SYSTEM. THE ROLE OF X-RAY AND NEUTRON DIFFRACTION STUDIES 67-05 M14-69283
MUTUAL DIFFUSION IN SOME BINARY SYSTEMS WHICH FORM CONTINUOUS SERIES OF SOLID SOLUTIONS 67-07 M14-73476
THE PHASE TRANSFORMATIONS OF CHROMIUM-PALLADIUM ALLOYS IN SOLID STATE 67-12 M13-82055
PALLADIUM, CHEMICAL ANALYSIS
SUGGESTED METHOD FOR SPECTRO-CHEMICAL ANALYSIS OF PALLADIUM BY THE PELLET-SPARK AND D-C ARC TECHNIQUES 67-06 M19-70861

PALLADIUM, COATING
SCIENCE FOR ELECTROPLATERS. PT. 112. PALLADIUM
67-03 M12-65044

PALLADIUM, COATINGS
PRECIOUS METAL PLATING BATHS AND THEIR PRACTICAL APPLICATIONS 67-01 M12-58303
DEVELOPMENTS AND TENDENCIES IN THE PRECIOUS-METAL ELECTROPLATING TECHNOLOGY. PT. 2
67-05 M12-68716
MEASURING ELECTRODEPOSIT THICKNESS. A BETA BACK-SCATTER METHOD FOR THE PLATINUM METALS
67-05 M19-69287
SOLDERING PALLADIUM PLATED ELECTRONIC COMPONENTS. AN INVESTIGATION OF THE RELIABILITY OF JOINTS
67-07 M11-72879
BRIGHT PALLADIUM PLATING 67-07 M12-72877
APPLICATIONS OF METAL FINISHING IN PRINTED CIRCUITS. PT. 2 67-10 M12-79003
ELECTRODEPOSITION OF THICK COATINGS OF PLATINUM AND PALLADIUM ON REFRACTORY METALS FROM AQUEOUS ELECTROLYTES 67-11 M12-80396

PALLADIUM, CRYSTAL LATTICES
THE HIGH-TEMPERATURE LATTICE SPACINGS OF SOME R. E. PD3 PHASES. PT. 4 67-05 M13-68219
IMPERFECTIONS IN DEFORMED PALLADIUM
67-06 M13-71064
THE EFFECT OF THE OCCLUSION OF HYDROGEN ON THE CHARACTERISTIC TEMPERATURE OF PALLADIUM AND THE VIBRATION AMPLIT DIES OF ITS ATOMS
67-08 M13-74390
LOW-ENERGY ELECTRON DIFFRACTION STUDY OF THE --100-- FACE OF SILVER, GOLD, AND PALLADIUM
67-08 M13-75369

PALLADIUM, DIFFUSION
INTERNAL FRICTION OF PALLADIUM CONTAINING HYDROGEN
67-04 M14-66544

PALLADIUM, DISSOLVING
INTERACTION KINETICS OF PB, AG AND AG-PD ALLOYS WITH CYANIDE SOLUTION 67-10 M14-79131

PALLADIUM, ELECTRICAL PROPERTIES
INVESTIGATION OF GALVANOMAGNETIC PROPERTIES OF HYDROGENATED PALLADIUM SINGLE CRYSTALS
67-02 M15-61118
THE THERMAL CONDUCTIVITY AND ELECTRICAL RESISTIVITY OF POLYCRYSTALLINE METALS OF THE PLATINUM GROUP AND OF SINGLE CRYSTALS OF RUTHENIUM 67-05 M15-68210
THE CHANGE IN ELECTRICAL RESISTANCE OF METALS DURING MULTIPLE QUENCHING 67-06 M15-70591
CHANGE OF ELECTRICAL RESISTANCE OF PALLADIUM FILM DUE TO ADSORPTION OF CARBON MONOXIDE
67-06 M15-71029
EFFECT OF SLIGHT SILVER IMPURITIES ON THE ELECTRICAL RESISTANCE OF PALLADIUM
67-10 M15-79633

PALLADIUM, EXTRACTION
CYANIDATION OF PALLADIUM AND A PALLADIUM-SILVER ALLOY 67-09 M03-77118

PALLADIUM, INTERMETALLICS
MAGNETIC STRUCTURE OF THE ZETA PHASE OF PD3MN2 ALLOY 67-02 M15-59066
ORDERED ALLOYS OF THE GOLD-PALLADIUM SYSTEM. PT. 2. ELECTRON DIFFRACTION STUDY ON EVAPORATED AUPD3 FILMS 67-04 M14-67477
ANTIFERRO-FERROMAGNETIC TRANSITION IN FE --PTPD--3 ALLOYS 67-04 M15-67662
METHODS FOR INTERPRETING ELECTRON DIFFRACTION PATTERNS OF THIN ALLOY FILMS 67-05 M13-68439
STRUCTURE OF THE TWO NEW INTERMETALLIC PHASES-- SRCU5 AND BAPD5 67-06 M13-70120
EQUIATOMIC BINARY COMPOUNDS OF ZR WITH TRANSITION ELEMENTS RU, RH AND PD 67-07 M14-72655
ATOMIC AND MAGNETIC ORDER IN MN2PD3
67-09 M15-77673

PALLADIUM, MECHANICAL PROPERTIES
WEAR AND FRICTION OF THE PLATINUM METALS. PERFORMANCE IN SLIDING CONTACTS
67-05 M17-69282
DETERMINING DEFORMATION CONNECTED WITH THE GRAIN BOUNDARIES WHEN STRETCHING PD IN A WIDE TEMPERATURE RANGE 67-06 M17-72351
YIELD POINT EFFECTS IN PALLADIUM
67-10 M17-78722

PALLADIUM, MICROSTRUCTURE
FIELD ION MICROSCOPY OF THE PLATINUM METALS
67-07 M13-72878

PALLADIUM, OPTICAL PROPERTIES
OPTICAL DENSITIES OF STATES OF NICKEL, COBALT, AND PALLADIUM 67-02 M16-61595

PALLADIUM, PHYSICAL PROPERTIES
SUBLIMATION RATES, VAPOR PRESSURE AND HEATS OF SUBLIMATION OF RHENIUM, RHODIUM, PALLADIUM AND TITANIUM 67-09 M15-77835

PALLADIUM, POWDER METALLURGY
THE KINETICS OF METALLIC ACTIVATION SINTERING OF TUNGSTEN 67-08 M09-75292

PALLADIUM, RADIATION EFFECTS
RADIATION DAMAGE IN PD PRODUCED BY 1-3 MEV ELECTRONS 67-05 M16-69810

PALLADIUM, REACTIONS /CHEMICAL/
DISSOLUTION OF METALS BY AC ELECTROLYSIS
67-01 M14-58583
THE FREE ENERGY OF FORMATION OF PALLADIUM OXIDE
67-03 M14-65426
REACTIONS OF OXYGEN WITH THE PLATINUM METALS. PT. 3. THE OXIDATION OF PALLADIUM
67-05 M14-69718

PALLADIUM, THIN FILMS
PLATINUM AND PALLADIUM METALLIZING PREPARATIONS
67-05 M12-69731
THE STRUCTURE AND ORIENTATION OF CRYSTALS IN DEPOSITS OF METALS ON MICA 67-08 M14-75368

PALLADIUM, TRANSPORT PROPERTIES
THE HALL EFFECT IN PALLADIUM AND DILUTE IRON-PALLADIUM ALLOYS 67-06 M15-72000
OPTICAL PROPERTIES AND FERMI SURFACE OF PALLADIUM
67-08 M15-74630

PALLADIUM, X RAY ANALYSIS
THE FINE STRUCTURE OF THE L BETA2-EMISSION BAND OF PALLADIUM 67-08 M13-74273

PALLADIUM BASE ALLOYS, ABSORPTION /MATERIAL/
COMPARISON OF HYDROGEN AND DEUTERIUM SOLUBILITY IN PALLADIUM-RICH ALLOYS. GOLD-PALLADIUM
67-08 M14-75385

PALLADIUM BASE ALLOYS, ATOMIC PROPERTIES
PALLADIUM HYPERFINE FIELD IN FERROMAGNETIC PD-FE ALLOYS 67-07 M16-73526
ISOMER SHIFTS ON SN119 IMPURITY NUCLEI IN PD-H ALLOYS 67-07 M16-73705

PALLADIUM BASE ALLOYS, CRYSTAL LATTICES
SHORT-RANGE ORDER AND K-STATE IN PD-W AND PD-CO ALLOYS 67-02 M14-62093
SHORT-RANGE ORDER IN A GOLD-PALLADIUM ALLOY OF EQUIATOMIC COMPOSITION 67-04 M14-66392
SHORT-RANGE ORDER IN A GOLD-PALLADIUM ALLOY OF EQUIATOMIC COMPOSITION 67-05 M14-68589
THE RECOVERY KINETICS OF DEFORMED COPPER-PALLADIUM AND GOLD-PALLADIUM ALLOYS 67-07 M14-73909
AN X-RAY DIFFUSE SCATTERING MEASUREMENT OF LOCAL LOCAL ORDER IN A PD-PT ALLOY 67-11 M14-80183

PALLADIUM BASE ALLOYS, DIFFUSION
STUDY OF MUTUAL DIFFUSION IN BINARY SYSTEMS FORMING A CONTINUOUS SERIES OF SOLID SOLUTIONS, BY LOCAL X-RAY SPECTRAL ANALYSIS. PT. 1
67-04 M14-67915
SOME NONEQUILIBRIUM EXPERIMENTS ON THE HYDROGEN PERMEATION AND DIFFUSION CHARACTERISTICS OF A 75 PD-25 AG ALLOY 67-10 M14-79604

PALLADIUM BASE ALLOYS, DISSOLVING
INTERACTION KINETICS OF PB, AG AND AG-PD ALLOYS WITH CYANIDE SOLUTION 67-10 M14-79131

PALLADIUM BASE ALLOYS, ELECTRICAL PROPERTIES
ELECTRICAL RESISTIVITY AND LONGITUDINAL ELECTRICAL MAGNETORESISTIVITY OF PALLADIUM-RICH PALLADIUM-ERBIUM ALLOYS AT LOW TEMPERATURES
67-03 M15-65214
THE EFFECT OF PLASTIC DEFORMATION ON THE RESISTIVITY AND HALL EFFECT OF COPPER-PALLADIUM AND GOLD-PALLADIUM ALLOYS 67-07 M15-73907
THERMOELECTRIC POWERS OF PALLADIUM ALLOYS
67-07 M15-73982
AN APPROXIMATE DENSITY OF STATES CURVE AND ITS RELATION TO THE MEASURED ELECTRICAL RESISTIVITY OF GOLD-PALLADIUM ALLOYS 67-07 M16-73908
SOME ELECTRICAL PROPERTIES OF BINARY ALLOYS OF PD WITH ELEMENTS OF THE FIRST LONG PERIOD
67-10 M15-79079

PALLADIUM BASE ALLOYS, MAGNETIC PROPERTIES
ON THE MAGNETIC STRUCTURE OF SOME ALLOYS OF TRANSITION METALS 67-01 M15-57576
THE MAGNETIC SUSCEPTIBILITIES OF PD-CD, PD-SB AND PT-CU BINARY ALLOYS 67-02 M15-59060
MAGNETIC STRUCTURE OF THE ZETA PHASE OF PD3MN2 ALLOY 67-02 M15-59066
THE MAGNETIC SUSCEPTIBILITIES AND SN119 ISOMER SHIFTS OF SOME PD-SN ALLOYS 67-04 M15-66179
THE EFFECT OF PRESSURE ON THE CURIE TEMPERATURE AND RESISTIVITY OF SOME RARE-EARTH METALS AND

HEUSLER ALLOYS 67-06 M15-71282
FERROMAGNETIC TRANSITIONS IN DILUTE SOLUTIONS OF COBALT IN PALLADIUM 67-06 M15-71794
FERROMAGNETIC RESONANCE IN A SERIES OF ALLOYS. PT. 2. BINARY ALLOYS OF COBALT WITH PLATINUM AND PALLADIUM, AND ONE IRON-PALLADIUM ALLOY 67-06 M15-72087
HYPERFINE FIELDS IN FE-PD-H ALLOYS 67-11 M15-81669
THE MAGNETIC AND CHEMICAL ORDERING OF THE HEUSLER ALLOYS PD2MNIN, PD2MNSN AND PD2MNSB 67-12 M14-82550

PALLADIUM BASE ALLOYS, MECHANICAL PROPERTIES
SHORT-TIME STRENGTH OF PLATINUM, PALLADIUM AND THEIR ALLOYS AT 1100 TO 1400 C 67-09 M17-77417

PALLADIUM BASE ALLOYS, OPTICAL PROPERTIES
OPTICAL PROPERTIES OF THE BETA- PHASE ALLOYS, AUZN, CUZN AND PDIN 67-11 M15-80324

PALLADIUM BASE ALLOYS, PHASES /STATE OF MATTER/
SHORT-RANGE ORDER IN AU-PD ALLOYS OF EQUIATOMIC COMPOSITION 67-10 M13-79912

PALLADIUM BASE ALLOYS, THERMAL PROPERTIES
THE LATTICE THERMAL CONDUCTIVITY OF SOME PALLADIUM AND PLATINUM ALLOYS 67-12 M15-82547

PALLADIUM BASE ALLOYS, THERMODYNAMICS
HYDROGEN IN PALLADIUM ALLOYS 67-02 M16-60028
THE MIXING BEHAVIOR OF PD ALLOYS OF THE INTERSTITIAL AND THE SUBSTITUTIONAL TYPE 67-07 M15-72751

PALLADIUM BASE ALLOYS, TRANSPORT PROPERTIES
THE HALL EFFECT IN PALLADIUM AND DILUTE IRON-, PALLADIUM ALLOYS 67-06 M15-72000

PALLADIUM COMPOUNDS, BENEFICIATION
FLOTATION BENEFICIATION OF SLURRIES FROM NICKEL ELECTROLYSIS 67-02 M02-59190

PANELS, BONDING
HOT SPRAY ADHESIVES SPEED PRODUCTION OF SANDWICH PANELS 67-07 M11-73845

PANELS, COATING
RECENT EXAMPLES OF EXPOSED GALVANIZED PAINTED PANELS AND STRUCTURES 67-09 M12-77661

PANELS, FORMING
INDUSTRY SHOWS RENEWED INTEREST IN STRETCH-PRESS FORMING 67-08 M08-74734

PANELS, MACHINING
HONEYCOMB AND PLASTIC--NEW TREND IN MASTER MODELS 67-05 M08-68660
ELECTROCHEMICAL MACHINING TITANIUM ALLOY WAFFLE-GRID PANELS 67-09 M08-77905

PANELS, MECHANICAL PROPERTIES
BUCKLING STRENGTH OF CURVED BERYLLIUM PANELS IN COMPRESSION 67-04 M17-67890
FRACTURE TOUGHNESS OF 7075-T6 AND -T651 SHEET, PLATE, AND MULTILAYERED ADHESIVE-BONDED PANELS 67-12 M17-83244

PANELS, METAL WORKING
NEW PRODUCTION LINE TO SATISFY INCREASING DEMAND FOR PYRENES TEST PANELS 67-05 M01-68908

PANELS, WELDING
FLUX SUPPORTED SUBMERGED-ARC WELDING OF TUBULAR PANELS 67-09 M11-77947

PAPER MACHINES
STAINLESS STEEL FOURDRINIER WIRE 67-01 M20-58765
WIRE LIFE ON A PAPER MACHINE 67-06 M17-71562

PAPERMAKING
NEW TECHNIQUE IN OVERLAY VESSEL CONSTRUCTION 67-01 M12-58766
STAINLESS STEEL FOURDRINIER WIRE 67-01 M20-58765
THE USE OF TITANIUM IN THE PULP AND PAPER INDUSTRY 67-01 M20-58767

PAPERMAKING, MATERIALS
PRODUCTION OF CALENDAR AND OTHER ROLLS FOR PAPERMAKING MACHINES 67-04 M06-68100

PARALLEL SHAFT GEARS
SEE INTERNAL GEARS
SPROCKETS
SPUR GEARS

PARAMAGNETIC MATERIALS
NONMAGNETIZABLE IRON MATERIALS IN ELECTRICAL TECHNOLOGY 67-05 M20-69105

PARAMAGNETIC MATERIALS, ATOMIC PROPERTIES
E. S. R. STUDY ON THE COPPER MANGANESE DILUTE ALLOY 67-05 M16-69761

PARAMAGNETIC MATERIALS, ELECTRICAL PROPERTIES
RESISTIVITY AND TUNNELLING PROPERTIES OF PARAMAGNETIC ALLOY FILMS 67-03 M15-65108

PARAMAGNETIC MATERIALS, MAGNETIC PROPERTIES
PROPERTIES OF NONMAGNETIZABLE NE-METALS AND THEIR METALLURGICAL IMPORTANCE 67-02 M15-59907
STATISTICAL MECHANICS OF A SUPERPARAMAGNETIC SYSTEM 67-02 M15-61031
SUPERPARAMAGNETISM, CLASSICAL THEORY AND EXPERIMENTAL SITUATION 67-02 M15-61032
IRRADIATION OF HEUSLER ALLOYS 67-02 M16-61116

PARAMAGNETIC MATERIALS, TRANSPORT PROPERTIES
TEMPERATURE DEPENDENT STONER ENHANCEMENT FOR NICKEL ABOVE THE CURIE TEMPERATURE 67-08 M16-75830

PARAMAGNETIC RESONANCE
SEE ALSO ELECTRON PARAMAGNETIC RESONANCE
PARAMAGNETIC RESONANCE IN BINARY EU --2-- AND GD --3-- COMPOUNDS 67-01 M16-58635
FERROMAGNETIC RESONANCE IN A SERIES OF ALLOYS. PT. 1. BINARY ALLOYS OF NICKEL WITH COPPER, TUNGSTEN, COBALT AND CHROMIUM 67-06 M15-72086
FERROMAGNETIC RESONANCE IN A SERIES OF ALLOYS. PT. 2. BINARY ALLOYS OF COBALT WITH PLATINUM AND PALLADIUM, AND ONE IRON-PALLADIUM ALLOY 67-06 M15-72087
PARAMAGNETIC RESONANCE OF IONS OF THE IRON GROUP IN PERICLASE SINGLE CRYSTALS 67-06 M16-71476
INTERACTIONS OF LONG RANGE AND PARAMAGNETIC IONS 67-10 M16-79370
PARAMAGNETIC RESONANCE OF IONS OF THE IRON GROUP IN SINGLE CRYSTALS OF PERICLSE 67-12 M16-82797

PARAMAGNETIC RESONANCE, HEATING EFFECTS
ANNEALING EFFECTS OF PARAMAGNETIC DEFECTS INTRODUCED NEAR SILICON SURFACE 67-08 M15-75055

PARAMAGNETISM
SEE FERROMAGNETISM

PARENT METAL
SEE BASE METAL

PARKERIZING
SEE PHOSPHATING /COATING/

PARTIAL PRESSURE
OXYGEN PRESSURE IN LIQUID IRON. PT. 6. STUDY OF OXYGEN CONCENTRATION CELLS AT HIGH TEMPERATURE 67-06 M15-72269

PARTICLE ACCELERATORS
SEE ALSO CYCLOTRONS
ION ACCELERATORS
SYNCHROTRONS
COATING BY THE ELECTRON BEAM 67-03 M12-65480
A TWO-MILE COPPER TUBE FOR THE WORLDS LARGEST LINEAR ELECTRON ACCELERATOR 67-03 M20-65498
PROBLEMS OF THE MANUFACTURE OF MAGNETS FOR PARTICLE ACCELERATORS 67-06 M20-72127
RADIOISOTOPIC DETERMINATION OF THE POSITION OF PIPES IN HOT BILLETS 67-10 M07-79869

PARTICLE COUNTERS
SEE RADIATION COUNTERS

PARTICLE SIZE DISTRIBUTION
DETERMINATION OF THE SIZE OF PARTICLES OF FINELY DISPERSED METAL POWDERS 67-02 M09-60173
THE EFFECT OF THE PARTICLE SIZE OF ALUMINUM POWDER ON THE SINTERING OF A CU-AL ALLOY IN THE PRESENCE OF A LIQUID PHASE 67-02 M09-61783
ON THE DETERMINATION OF THE NUMBER, SIZE, SPACING, AND VOLUME FRACTION OF SPHERICAL SECOND-PHASE PARTICLES FROM EXTRACTION REPLICAS 67-02 M13-59422
ON THE CRYSTAL LATTICE DEFECTS IN METALLIC FINE PARTICLES 67-02 M14-60143
SINTERING OF YTTRIUM OXIDE 67-03 M09-65355
INFLUENCE OF PARTICLE SIZE ON SINTERING EFFICIENCY 67-04 M02-67426
COARSENING A TITANIUM POWDER 67-04 M09-67836
STUDIES ON WROUGHT EUTECTIC-TYPE ALUMINUM-SILICON ALLOYS 67-04 M17-67118
POROUS METALS FILTER LIQUIDS, CUT NOISE, DAMPEN VIBRATION 67-05 M01-68428
COMPARISON OF PARTICLE SIZE ANALYSIS METHODS 67-05 M19-69572
STUDY ON THE DISSOLUTION OF SUSPENDED OXIDE PARTICLES IN MOLTEN IRON 67-06 M04-71746
DETERMINATION OF THE SPECIFIC SURFACE --PARTICLE SIZE-- OF POWDERS FROM THE RATIO OF FLOW RATES MEASURED UNDER DIFFERENT CONDITIONS OF GAS FLOW IN A POROUS MEDIUM 67-06 M09-70964
PERMEABILITY TECHNIQUES FOR CHARACTERIZING FINE POWDERS 67-06 M09-71798
A NEW TECHNIQUE FOR FRACTIONATING POWDERS 67-06 M09-71799

PARTICLE SIZE DISTRIBUTION
HYDROSTATIC PRESSING OF POWDERS 67-07 M09-73861
THE COMPACTION OF METAL POWDERS BY ROLLING 67-07 M09-73866
VIBRATORY COMPACTING OF METAL POWDERS 67-07 M09-73872
LINE SHAPE ANALYSIS OF COLD WORKED MAGNESIUM 67-07 M13-73435
AN X-RAY STUDY ON DEFORMED STRUCTURE OF POLYCRYSTALLINE IRON 67-07 M17-72907
CARBON DISTRIBUTION DURING PELLETIZATION OF SINTER CHARGE 67-08 M02-74573
SEMIAUTOMATIC INSTRUMENT FOR SEDIMENTOMETRIC ANALYSIS OF POWDERS 67-08 M09-74317
DETERMINATION OF POWDER SPECIFIC SURFACE BY FILTRATION OF RAREFIED GAS 67-08 M09-75420
AGGREGATION OF AG AND AU THIN FILMS THAT ARE DEPOSITED ON CARBON FOILS AT ELEVATED TEMPERATURES AND IN ULTRAHIGH VACUUM 67-08 M14-75164
THE INFLUENCE OF PARTICLE SIZE IN DISPERSION HARDENING. STUDIES ON AL-MN AND AL-NI ALLOYS 67-08 M14-75321
ALUMINA-BONDED REFRACTORIES 67-09 M05-76454
PHYSICAL AND MECHANICAL PROPERTIES OF BLENDED AND BALL-MILLED ALUMINIUM-ALUMINIUM OXIDE ALLOYS 67-09 M09-78261
PARTICLE-SIZE DETERMINATION FOR FINE METAL POWDERS 67-09 M14-76906
FAULTING IN COMPACTED AG-9 AT. PER CENT SN ALLOY POWDERS 67-12 M13-83050
SLURRY ABRASION 67-12 M17-82916
PARTICLE SIZE DISTRIBUTION, HEATING EFFECTS
PRECIPITATION HARDENING IN NI-BASE HIGH-TEMPERATURE ALLOYS 67-02 M14-61898
INFLUENCE OF POWDER HEAT TREATMENT ON THE SINTERING OF --UPU--02 67-09 M09-76337
PARTICLE SIZE REDUCTION
SEE COMMINUTION
PARTICLE SPIN
TRANSPORT PROPERTIES AND LOCALIZED SPINS IN N-TYPE INSB 67-04 M16-66786
ELECTRON SPIN RESONANCE OF PHOSPHORUS-DOPED SILICON IN THE METALLIC CONDUCTION REGION 67-04 M16-66788
EFFECT OF DOPING ON THE ELECTRON SPIN RESONANCE IN PHOSPHORUS-DOPED SILICON 67-04 M16-66789
E. S. R. STUDY ON THE COPPER MANGANESE DILUTE ALLOY 67-05 M16-69761
SPIN DETERMINATIONS OF NEUTRON RESONANCES IN SB, TA, RE, AND IR, USING IRON-ALLOY TARGETS 67-07 M15-72931
RELATIONSHIP BETWEEN THE SPIN SUSCEPTIBILITY ENHANCEMENT AND THE SUPERCONDUCTING TRANSITION TEMPERATURE 67-07 M16-73546
SPIN REVERSAL TRANSITIONS IN IMPURITY HOP CONDUCTION 67-08 M16-75827
HIGH-PRESSURE STUDY OF THE FIRST-ORDER PHASE TRANSITION IN MNAS 67-08 M16-75930
MAGNETORESISTANCE AND CONDUCTION ELECTRON-IMPURITY SPIN COUPLING IN DILUTE SILVER ALLOYS 67-09 M15-76372
EVIDENCE FOR TWO-CURRENT CONDUCTION IRON 67-09 M15-76590
ZERO-FIELD NUCLEAR SPIN RELAXATION AND RESONANCE ABSORPTION IN SUPERCONDUCTING ALUMINUM 67-10 M16-78735
INFLUENCE OF ENTROPY IN PHASE STABILIZATION 67-11 M14-81103
THE ELECTRON PARAMAGNETIC RESONANCE IN REDUCED BATIO3 CRYSTALS 67-11 M15-80319
DEEP ACCEPTORS IN IRON-DOPED GALLIUM ARSENIDE 67-11 M15-80634
THE ELECTRON SPIN RESONANCE OF VO2 PLUS IONS
B IN TWO TYPES OF ALUMINUM ALUMS 67-11 M16-80329
DOUBLY-ASSOCIATED CATION-VACANCY CENTERS IN MAGNESIUM OXIDE 67-11 M16-81683
PARTICLE SPIN, RADIATION EFFECTS
ELECTRON SPIN RESONANCE IN NEUTRON-BOMBARDED GRAPHITE 67-10 M16-78905
PARTICLES, MAGNETIC PROPERTIES
EFFECT OF PARTICLE INTERACTION ON THE ANHYSTERETIC MAGNETIZATION PROCESS IN MAGNETITE POWDER 67-08 M15-75287
PARTICLES /OF PHYSICS/
SEE ANTIPARTICLES
BETA RAYS
DEUTERONS
ELECTRONS
NEUTRONS
PHOTOELECTRONS
PROTONS
PASSENGER CAR ENGINES, MATERIALS
ALUMINUM ENGINE TECHNOLOGY--WHERE IS IT NOW 67-05 M20-68468
PASSIVATION
SEE PASSIVITY
PASSIVITY
CATHODIC POLARIZATION AND KINETICS OF ADSORPTION OF OXYGEN ON METALS 67-02 M18-58930
AN ELLIPSOMETRIC DETERMINATION OF THE MECHANISM OF PASSIVITY OF NICKEL 67-02 M18-59448
ANODIC BEHAVIOR OF COPPER IN NACL AQUEOUS SOLUTIONS 67-02 M18-59739
ON THE FORMATION OF ANODIC FILMS ON CU IN 3 PER CENT NACL AQUEOUS SOLUTIONS 67-02 M18-59740
INVESTIGATION OF THE CORROSION AND ELECTROCHEMICAL BEHAVIOR OF TITANIUM AND ITS ALLOYS IN SOLUTIONS OF PERCHLORIC ACID 67-02 M18-59787
ANODIC BEHAVIORS OF IRON, IRON CHROMIUM AND IRON-NICKEL ALLOYS IN SULFURIC ACID SOLUTION 67-02 M18-59976
THE FIRST PASSIVITY FILM OF FE, FE-CR, FE-NI ALLOYS RESULTING FROM SO4--ION 67-02 M18-59977
TEMPERATURE DEPENDENCY OF THE DISSOLUTION KINETICS AND PASSIVATION OF METALS AND ALLOYS. PT. 2. TEMPERATURE DEPENDENCY OF THE DISSOLUTION MECHANISM 67-02 M18-60113
CONTRIBUTION TO THE PASSIVATION CHARACTERISTICS OF ZINC IN SATURATED ZINC SULFATE SOLUTIONS 67-02 M18-60116
THE CORROSION RESISTANCE OF A 13 PER CENT CR STEEL IN AQUEOUS SOLUTIONS OF SALTS 67-02 M18-60211
HOW TO PASSIVATE STAINLESS STEELS 67-02 M18-60245
EFFECT ON IRON OF COMBUSTION GASES OF CONVENTIONAL GASEOUS FUELS 67-02 M18-62018
EFFECTS OF MO, CU, SI AND P ON ANODIC BEHAVIOR OF 17 CR STEELS 67-03 M18-65404
ELLIPSOMETRIC-POTENTIOSTATIC STUDIES OF IRON PASSIVITY. PT. 1. ANODIC FILM GROWTH IN SLIGHTLY BASIC SOLUTIONS 67-03 M18-65423
THERMODYNAMIC AND KINETIC CONSIDERATIONS CONCERNING THE IRON CORROSION ELECTRODE 67-04 M12-67754
ANODIC BEHAVIOR OF CU-NI ALLOYS IN AQUEOUS AMMONIUM SOLUTIONS 67-04 M18-67276
PASSIVATION OF CHROMIUM IN ALKALI SOLUTIONS 67-04 M18-67277
THE ANODIC PASSIVATION OF IRON IN SOLUTIONS OF INHIBITIVE ANIONS 67-05 M18-68313
CAPACITANCE MEASUREMENTS DURING ACTIVATION OF PASSIVE NICKEL 67-05 M18-69477
THERMAL OXIDATION OF SILICON.. GROWTH MECHANISM AND INTERFACE PROPERTIES 67-05 M18-69778
THE PROBLEM OF PASSIVATION OF NICKEL IN SULFURIC ACID SOLUTIONS 67-05 M18-69824
USE OF PONTENTIOSTATIC METHODS FOR THE STUDY OF THE BEHAVIOR OF ALUMINIUM AND ITS ALLOYS IN VARIOUS MEDIA 67-06 M18-70577
CORROSION-RESISTANT ALLOYS IN CHLORIDE SOLUTIONS--MATERIALS FOR SURGICAL IMPLANTS 67-06 M18-70694
THE FATIGUE STRESS CORROSION OF METALLIC MATERIALS. PT. 9. PASSIVATION AND ACTIVATION PROCESSES IN THE FATIGUE STRESS CORROSION OF STAINLESS STEELS 67-07 M18-73177
KINETIC FEATURES OF STRESS-CORROSION CRACKING 67-07 M18-73697
ROLE OF ANIONS IN THE CORROSION AND CORROSION-INHIBITION OF ZINC IN AQUEOUS SOLUTIONS 67-07 M18-73699
THE ELECTROCHEMICAL PARAMETERS OF STAINLESS STEEL PASSIVATION BY SOME REVERSIBLE REDOX-SYSTEMS 67-07 M18-73700
CATALYTIC ACTIVITY OF STAINLESS STEEL TUBES 67-08 M14-76294
ALUMINUM ALLOYS AS ANODE MATERIAL 67-08 M15-75946
FACTORS AFFECTING WATER CONTENT NEEDED TO PASSIVATE TITANIUM IN CHLORINE 67-08 M18-76186
EFFECT OF HALIDE ADDITIONS ON ANODIC BEHAVIOR OF NICKEL IN SULFURIC ACID SOLUTIONS 67-08 M18-76189
PASSIVATION AND CORROSION OF STAINLESS STEELS 67-09 M18-76491

CORROSION RESISTANCE OF LEAD IN SULPHURIC ACID UNDER STATIC AND ALTERNATING STRESS 67-09 M18-76613
ON THE PASSIVITY OF IRON-CHROMIUM ALLOYS. PT. 1. REVERSIBLE PRIMARY PASSIVATION AND SECONDARY FILM FORMATION 67-09 M18-76621
THE EXAMINATION OF CORROSION PRODUCTS AND PROCESSES. PT. 2. POTENTIOSTATS 67-09 M18-76634
THE PRODUCTION AND BREAKDOWN OF THE PASSIVITY OF METALS 67-09 M18-76646
THE INFLUENCE OF THE GEOMETRIC AREA OF A SURFACE UPON CORROSION AND INHIBITION PHENOMENA 67-09 M18-77703
ANODIC BEHAVIOR OF COPPER ELECTRODE IN NACL AQUEOUS SOLUTION 67-09 M18-77876
FORMATION OF ANODIC FILM ON COPPER IN 3 PER CENT NACL AQUEOUS SOLUTION 67-09 M18-77877
CORROSION RESISTANCE OF STAINLESS STEELS IN AQUEOUS SOLUTIONS. PT. 1 67-09 M18-78202
ANODIC BEHAVIOR OF IRON-ALUMINUM ALLOYS IN SULFURIC ACID SOLUTION 67-09 M18-78236
ANODIC BEHAVIOR OF IRON-COBALT ALLOYS AND COBALT METAL IN SULFURIC ACID SOLUTIONS 67-09 M18-78237
ELLIPSOMETRIC-POTENTIOSTATIC STUDY OF IRON PASSIVITY 67-09 M18-78276
THE INFLUENCE OF THE MOLYBDENUM CONTENT ON THE CORROSION RATE OF AUSTENITIC CR-NI STEELS IN THE ACTIVE CONDITION 67-10 M18-78685
THERMODYNAMIC REFERENCE POTENTIALS WITH THE SELF-PASSIVATION OF TITANIUM 67-10 M18-78919
THERMODYNAMIC-KINETIC INTERPRETATION OF THE PASSIVATION PHENOMENA WITH FE-CR ALLOYS 67-10 M18-79090
ELECTROCHEMICAL CORROSION EXPERIMENTS AT TEMPERATURES ABOVE 100 C 67-11 M18-80707
SOME EFFECTS OF FLOW AND AERATION ON THE CORROSION BEHAVIOUR OF NICKEL IN SULPHURIC ACID SOLUTIONS 67-11 M18-80710
EFFECT OF CNS-IONS ON THE ANODIC BEHAVIOR OF KH18N10T STEEL IN SULFURIC ACID AND SOME POSSIBILITIES OF MODELING SYSTEMS WITH A PASSIVATING ANODE 67-11 M18-81281
NEW ASPECTS OF THE USE OF CAST AL ALLOYS 67-11 M18-81546
SURFACE ACTIVATION IN THE HEAT TREATMENT OF METALS 67-12 M10-81938
METHOD OF DESCALING AND PASSIVATING ACID-RESISTANT AND HIGH-TEMPERATURE CORROSION-RESISTANT STAINLESS STEEL SHEETS IN A PICKLING SOLUTION 67-12 M12-82906
THERMODYNAMIC CHARACTERISTICS OF ELECTROLESS CHROMIUM PLATING 67-12 M12-83085
PASSIVATION OF NICKEL IN SOLUTIONS OF SULFURIC ACID 67-12 M18-82258
FUNDAMENTAL ASPECTS OF THE DEVELOPMENT OF CORROSION PROOF ALLOYS 67-12 M18-82299
PROTECTION OF METALS WITH ELECTRIC CURRENTS 67-12 M18-82351
STRUCTURE AND GROWTH OF THIN FILMS ON METALS EXPOSED TO OXYGEN 67-12 M18-82891
STUDY ON ELECTROLYTIC MACHINING PROCESS. PT. 12. CORROSION OF MILD STEEL IN SODIUM CHLORIDE SOLUTION 67-12 M18-83225

PASSIVITY, ALLOYING EFFECTS
EFFECTS OF ARSENIC ON ELECTRO-CHEMICAL BEHAVIORS OF COPPER AND COPPER-ZINC ALLOYS IN 3 PER CENT NACL AQUEOUS SOLUTION 67-02 M18-59988
FUNDAMENTAL STUDIES ON CORROSION BEHAVIORS OF IRON-SILICON ALLOYS. PT. 1. ANODIC BEHAVIORS OF IRON-SILICON ALLOY 67-10 M18-79606

PATCHING
SEE MAINTENANCE

PATENTING /METALLURGICAL/
STRUCTURE AND PROPERTIES OF COBALT-ALLOYED PATENTED WIRE 67-02 M17-62270
EFFECT OF ALLOYING AND TEMPERING ON MECHANICAL PROPERTIES OF PATENTED COLD DRAWN WIRE 67-04 M17-66823
METHOD OF MANUFACTURING STEEL WIRE 67-05 M07-68411
EFFECT OF PATENTING OF ROD WIRE FROM ROLLING AND SPECIAL HEATS ON THE MECHANICAL PROPERTIES OF REINFORCING WIRE 67-05 M10-68561
SINGULARITIES OF PATENTING WIRE IN A PSEUDOLIQUEFIED LAYER 67-05 M10-69898
DIRECT ELECTRIC HEATING DURING PATENTING OF WIRE 67-06 M10-70367
INFLUENCE OF PATENTING OF ROLLED STOCK FROM ROLLING TEMPERATURE OR FOLLOWING SPECIAL REHEATING ON THE MECHANICAL PROPERTIES OF REINFORCING WIRE 67-07 M10-72472
PATENTING OF STEEL STRIP IN FLUIDIZED BED AFTER ROLLING 67-09 M10-77370
RECENT DEVELOPMENTS AND CURRENT PRACTICE IN THE MANUFACTURE OF HIGH-CARBON STEEL WIRE IN SOUTH AFRICA 67-11 M07-81020
MECHANICAL AND RHEOLOGICAL PROPERTIES OF HIGH-STRENGTH REINFORCING ROD 67-11 M17-80978
ISOTHERMAL TREATMENTS 67-12 M10-81939
PATENTING WIRE IN A FLUIDISED BED 67-12 M10-82152

PATROL PLANES
SEE MILITARY PLANES

PAULI EXCLUSION PRINCIPLE
SIMPLE METALS AND PSEUDOPOTENTIAL THEORY 67-10 M16-78301

PEARLITE
THE MUTUAL EFFECTS OF TRANSFORMATION REACTIONS IN HEAT TREATMENTS CARRIED OUT IN A FLUCTUATING TEMPERATURE FIELD 67-02 M14-59915
PROPERTIES OF PEARLITIC AND ANNEALED FERRITIC NODULAR-IRONS ALLOYED WITH COPPER 67-02 M17-60883
METALLOGRAPHIC ATLAS OF IRON, STEELS AND CAST IRONS. V. 2. STRUCTURE OF STEELS 67-04 M13-67734
APPLICATION OF ELECTRON BEAM MICROANALYSIS IN CORROSION INVESTIGATIONS 67-07 M18-73118
DETERMINATION OF THE LINEAR PREPEARLITIC SHRINKAGE AS A METHOD FOR THE ESTIMATION OF CASTING QUALITY 67-08 M06-75104
FACTORS GOVERNING THE FORMATION OF A PEARLITE FRINGE IN MALLEABLE CAST IRON 67-09 M14-76986

PEARLITE, ALLOYING EFFECTS
EFFECT OF ALLOYING ELEMENTS ON THE STRUCTURE OF WHITE CAST IRONS 67-12 M13-82089

PEARLITE, COMPOSITION EFFECTS
PROPERTIES OF RAILS WITH HIGH SILICON CONTENT 67-04 M17-66628

PEARLITE, DEFORMATION
DEFORMATION OF CEMENTATION 67-05 M13-68756

PEARLITE, ELECTRON DIFFRACTION
AN ELECTRON DIFFRACTION STUDY OF PEARLITE. PT. 2 67-06 M13-71825

PEARLITE, MICROSTRUCTURE
AN ELECTRON DIFFRACTION STUDY OF PEARLITE 67-05 M13-69431

PEARLITE, PHASE TRANSFORMATIONS
REVIEW OF EXISTING KNOWLEDGE ON TRANSFORMATIONS OF SUPERCOOLED AUSTENITE 67-02 M14-60287
INFLUENCE OF CERTAIN ALLOYING ELEMENTS ON THE KINETICS OF FORMATION OF PEARLITE 67-02 M14-62064

PEBBLE MILLING
SEE GRINDING /COMMINUTION/

PECHINEY PROCESS
SEE LIME SODA SINTER PROCESS

PEEL STRENGTH
POSTFORMABLE ADHESIVELY BONDED METAL LAMINATES 67-07 M11-73844

PEELING
SEE ALSO STRIPPING /PEELING/
RELATIONSHIP BETWEEN CUTTING GEOMETRY, TOOL WEAR AND SURFACE QUALITY IN THE PEELING OF STEEL BARS WITH CARBIDE TOOLS. PT. 4. DETERMINATION OF THE MOST FAVORABLE GEOMETRY OF THE CUTTING EDGE OF HARD METAL PEELING TOOLS AND EFFECT OF THE PEELING TOOL WEAR ON THE SURFACE FINISH OF BRIGHT STEEL BARS 67-09 M08-78283

PEENING
SEE ALSO SHOT PEENING
FURTHER TECHNIQUES FOR IMPROVING THE FATIGUE STRENGTH OF WELDED JOINTS 67-09 M17-76652

PEGMATITE, BENEFICIATION
FLOTATION OF SILICATES AND OXIDES WITH A MIXTURE OF SHORT-CHAIN FATTY ACIDS 67-08 M02-75172

PELLETING
EXPERIMENTAL PRODUCTION OF PREREDUCED PELLETS FROM NATURAL AND SYNTHETIC MAGNETITES 67-01 M02-57507
PRELIMINARY ANALYSIS OF THE FACTORS AFFECTING THE BALLING OF IRON ORE FINES 67-01 M02-57512
PILOT PLANT WORK IN THE FIELD OF IRON ORE AGGLOMERATION 67-01 M02-58102
SEMI-INDUSTRIAL TESTS OF TECHNIQUES FOR THE

PELLETING
SELECTIVE CHLORINATION OF CHROMIUM ORES
67-02 M02-59565
TECHNIQUES OF PRODUCING PELLETS FROM IRON-ORE FLOTATION CONCENTRATES 67-02 M02-60893
THE CONCENTRATION AND PELLETIZING OF TACONITE. PT. 1 67-02 M02-61117
TESTING A METHOD OF GRANULATING SULFIDIC CHARGES WITH LIMESTONE AND SULFURIC ACID
67-02 M02-61610
BONDING PROCESSES DURING PELLETIZING OF AGGLOMERATES WITH A MAZUT ADDITIVE
67-02 M02-61738
PELLETIZING AND ROASTING SULFIDIC COPPER-NICKEL CONCENTRATE MIXED WITH FINE ORE
67-02 M02-62044
HEAT FAST PROCESS UTILIZES STEEL MILL WASTE TO MAKE PRE-REDUCED PELLETS 67-02 M04-61640
THE CONCENTRATION AND PELLETIZING OF TACONITE. PT. 2 67-03 M02-65412
THE CONCENTRATION AND PELLETIZING OF TACONITE. PT. 3 67-04 M02-66115
PRODUCTION OF METALLIZED PELLETS USING CRUDE NATURAL GAS AS THE REDUCING AGENT
67-04 M02-66201
GRANULATION OF YAGERSK TITANIUM CONCENTRATES
67-04 M02-66822
A CASE FOR PELLETIZING 67-04 M04-66599
MANUFACTURING OF FLUXED PELLETS
67-05 M02-68542
ON THE RICE GRAIN METHOD 67-05 M02-69360
GRANULATING COPPER CONCENTRATE BEFORE MELTING IN A CONVERTER 67-05 M03-69528
PRODUCING 45 PER CENT FERROSILICON ON A BRIQUETTED CHARGE 67-05 M04-68326
TECHNICAL AND ECONOMIC INFLUENCE OF IRON ORE DRESSING ON THEIR FURTHER TREATMENT
67-06 M02-70853
PREPARATION OF THE BLAST-FURNACE BURDEN
67-06 M02-72005
GRANULATION OF FINE-GRAINED MATERIALS BY VIBRATION
67-06 M02-72102
PRODUCTION OF FLUXED PELLETS 67-07 M02-72453
EFFECT OF TREATMENT OF IRON-ORE PELLETS FOR POROSITY UPON THEIR REDUCIBILITY. PT. 1. STUDY OF REDUCTION OF IRON-ORE PELLETS
67-07 M02-72542
LABRADORS IRON ORE 67-07 M02-74010
TENDENCIES IN THE FORMATION OF LUMPS OF BURDEN MATERIALS FOR SHAFT FURNACES 67-07 M02-74104
PRODUCTION OF 45 PER CENT FERROSILICON USING A BRIQUETTED CHARGE 67-07 M04-72854
EFFECT OF FUEL COARSENESS ON THE VALUE OF THE EXCESS AIR COEFFICIENT IN SINTERING
67-08 M02-74324
CARBON DISTRIBUTION DURING PELLETIZATION OF SINTER CHARGE 67-08 M02-74573
PRODUCING PELLETS IN DRUM AND CUP PELLETIZERS
67-08 M02-76263
QUALITY FEATURES AND SMELTING PROPERTIES OF PELLETS
67-09 M02-78048
MINERALOGICAL COMPOSITION OF FLUXED PELLETS
67-10 M02-78418
PRODUCTION OF PELLETS ON DRUM AND DISK PELLETIZERS
67-10 M02-79256
DRESSING SYSTEM FOR JASPER-LIKE IRON ORE WITH PARTIAL RECOVERY OF PELLETIZED CONCENTRATE
67-10 M02-80070
PRODUCTION OF PELLETS FROM MANGANESE FLOTATION CONCENTRATES 67-11 M02-80857
RUNNING-IN RESULTS FROM THE KTSGOK PELLETIZING PLANT 67-11 M02-81312
PRODUCTION OF IRON ORE PELLETS AND BRIQUETS FOR THE BLAST FURNACE 67-11 M02-81455
PELLETIZING FINE CONCENTRATES AND PULVERIZED MATERIALS 67-11 M02-81602
INVESTIGATION OF TECHNICAL PARAMETERS IN THE PRODUCTION OF PARTLY REDUCED ORE-COAL PELLETS
67-12 M02-82104
THE PELLETIZING OF IRON ORE WITH PREROASTED MATERIAL 67-12 M02-82555
MINERAL COMPOSITION OF FLUXED SINTERS
67-12 M02-83416
METHOD OF PREPARING RED SLURRY OR A MIXTURE CONTAINING RED SLURRY OF ALUMINA PRODUCTION FOR BLAST FURNACE MELTING 67-12 M04-81790
PACKED BEDS IN METALLURGICAL OPERATIONS
67-12 M15-83076

PELLETIZING
SEE PELLETING

PELLETS
USE OF PREREDUCED PELLETS IN THE BLAST FURNACE. GRAPHICAL STUDY 67-02 M04-62034
PRODUCTION OF METALLIZED PELLETS USING CRUDE NATURAL GAS AS THE REDUCING AGENT
67-04 M02-66201
WORKING OF NONFERROUS METALLIFEROUS CINDERS INTO IRON ORE PELLETS BY LDK PLANT
67-06 M02-70852
THE GAS PERMEABILITY OF PELLETS IN THE BLAST FURNACE 67-06 M04-72294
COMPARATIVE INVESTIGATION INTO THE PERFORMANCE OF VARIOUS GRADES OF PELLETS AND SINTER IN THE BLAST FURNACE 67-07 M04-72706
COMPARATIVE INVESTIGATION INTO THE PERFORMANCE OF VARIOUS GRADES OF PELLETS AND SINTER IN THE BLAST FURNACE 67-07 M04-73032
THE EFFECTS OF BURDEN PREPARATION ON IRONMAKING
67-09 M02-76386
BLAST FURNACE PRACTICE AND TRENDS IN BLAST FURNACE OPERATION AT KONINKLIJKE NEDERLANDSCHE HOOGOVENS EN STAALFABRIEKEN NV 67-09 M04-76388
OPERATING WITH IRON ORE PELLETS
67-09 M04-76390
OBTAINING METALLIZED PELLETS IN A ROTARY KILN
67-11 M04-81218

PELLETS, BLAST FURNACE PRACTICE
USE OF METALLIZED PELLETS IN THE BLAST FURNACE
67-09 M04-76708

PELLETS, CHARGE PREPARATION
AUTOMATIC PELLET CHARGE CONTROL FOR ROASTING PLANT
67-08 M02-74895

PELLETS, CHARGING
BLAST FURNACE PRACTICE WITH IMPORTED PELLETS VS SINTER AT NO. 2 TABATA --JAPAN--BLAST FURNACE
67-06 M04-72131

PELLETS, DRYING
KINETICS OF DRYING PELLETS FROM SULFIDIC CU-NI CONCENTRATE 67-05 M02-68226

PELLETS, FLUXING
TECHNIQUES OF PRODUCING PELLETS FROM IRON-ORE FLOTATION CONCENTRATES 67-02 M02-60893
KINETICS OF REDUCTION OF FLUXED IRON ORE PELLETS WITH CO AND BLAST FURNACE GAS
67-02 M04-61202

PELLETS, HEAT TREATMENT
INVESTIGATION OF THE DRYING PROCESS OF IRON-ORE PELLETS 67-06 M02-70118

PELLETS, IRON AND STEEL MAKING
ARE PREREDUCED PELLETS A LUXURY
67-10 M04-79434

PELLETS, IRONMAKING
USE OF HIGH TOP PRESSURES AND WIND RATE WITH SINTER AND PELLET BURDENS 67-06 M04-72077

PELLETS, MECHANICAL PROPERTIES
STUDY OF THE STRENGTH OF FIRED PELLETS OF MANGANESE CONCENTRATE 67-04 M02-67130
STUDY OF THE MECHANISM OF STRENGTHENING OF SLAG-BONDED IRON-ORE PELLETS 67-06 M17-72396
EFFECT OF TREATMENT OF IRON-ORE PELLETS FOR POROSITY UPON THEIR STRENGTH. PT. 2. STUDY OF THE REDUCTION OF IRON-ORE PELLETS
67-06 M17-72397
METALLURGICAL PROPERTIES OF IRON-ORE PELLETS OBTAINED BY NONFIRING METHODS
67-07 M02-73017
STUDY OF THE HEMATITE-BONDING MECHANISM IN IRON-ORE PELLETS 67-07 M17-72570
THE DISINTEGRATION OF IRON RICH PELLETS DURING REDUCTION 67-09 M04-77709

PELLETS, MELTING
BLAST FURNACE OPERATION USING MARCONA PELLETS UP TO 65 PER CENT IN BURDEN 67-02 M04-60035

PELLETS, MICROSTRUCTURE
THE BEHAVIOR OF CRYSTALS AND VOIDS IN CENTRALLY HEATED GREEN PELLETS 67-01 M14-57991
THE INFLUENCE OF ORGANIC ADDITIONS ON COLUMNAR GRAIN GROWTH OF SINTERED URANIUM DIOXIDE
67-04 M14-67460
MICROSTRUCTURE OF IRRADIATED URANIUM DIOXIDE
67-07 M13-74198

PELLETS, NUCLEAR PROPERTIES
EJECTION OF URANIUM ATOMS FROM SINTERED UO2
67-09 M16-77476

PELLETS, PERMEABILITY
ON THE OPTIMUM GAS PERMEABILITY OF SINTER CHARGE AND THE CONDITIONS OF FUEL COMBUSTION
67-02 M02-62256

PELLETS, POWDER METALLURGY

BENCH SCALE ISOSTATIC PRESSING 67-08 M09-75525
PELLETS, REACTIONS /CHEMICAL/
ON THE SWELLING OF MARCONA IRON ORE PELLET DURING REDUCTION 67-02 M04-58841
URANIUM CARBIDE. REFRACTORY METAL INTERACTIONS AT HIGH TEMPERATURE 67-03 M14-65987
KINETICS OF REDUCTION OF FLUXED IRON ORE PELLETS BY HYDROGEN 67-05 M02-69606
AN APPROXIMATE ANALYSIS FOR THE REDUCTION OF IRON-OXIDE PELLETS IN THE MIXED-CONTROL MECHANISM 67-07 M04-72535
OPERATION OF AN EXPERIMENTAL FURNACE WITH PELLET AND SINTER BURDENS 67-09 M02-76731
EFFECT OF STEAM AND CARBON DIOXIDE ON THE REDUCTION OF AGGLOMERATES BY CARBON MONOXIDE 67-11 M04-80848
PELLETS, REDUCTION /CHEMICAL/
REDUCTION OF CONVERTER DUST PELLETS 67-04 M02-67554
KINETIC CHARACTERISTICS OF REDUCTION OF IRON ORE PELLETS BY HYDROGEN AND BY METHANE 67-05 M04-69503
REDUCTION OF IRON IN ORE AND ORE-CARBON GRANULES IN FLUIDIZED BED FURNACE IN STREAM OF NATURAL GAS 67-06 M04-69965
REDUCTION KINETICS OF IRON OXIDE PELLETS WITH HYDROGEN AT LOWER TEMPERATURES 67-09 M04-77985
CHARACTERISTICS OF BRAZILIAN IRON ORES AND THEIR AGGLOMERATES 67-12 M02-83255
INVESTIGATION OF THE SUITABILITY OF PREREDUCED PELLETS AS BLAST FURNACE BURDEN 67-12 M04-82664
PELLETS, REFINING
EFFECTIVE DESULFURIZING OF IRON OUTSIDE THE FURNACE 67-09 M02-76574
PELLETS, SINTERING
DETERMINATION OF CHARACTERISTICS OF SINTERED PRODUCTS 67-01 M02-58369
DECARBURIZATION AND SINTERING OF BRIQUETS IN VACUUM-THERMAL PRODUCTION OF CARBON-FREE FERROCHROMIUM 67-05 M04-69686
DECARBURIZATION AND SINTERING BRIQUETTES IN THE VACUUM THERMAL PRODUCTION OF CARBON-FREE FERROCHROMIUM 67-07 M04-74072
PELLETS, SMELTING
QUALITY FEATURES AND SMELTING PROPERTIES OF PELLETS 67-09 M02-78048
PELLETS, STEEL MAKING
USE OF PELLETS FOR OPEN HEARTH CHARGE AND FEED OXIDE 67-03 M04-65505
ELECTRIC ARC STEELMAKING WITH CONTINUOUSLY CHARGED REDUCED PELLETS 67-12 M04-82650
PELLETS, WELDING
AUTOMATIC WELDING WITH ADDITION OF IRON PELLETS 67-06 M11-71853
AUTOMATIC WELDING WITH IRON PELLETS ADDED 67-11 M11-80885
PELTIER EFFECT
ANALOGIES OF THE ETTINGSHAUSEN AND PELTIER EFFECTS IN THE MIXED STATE OF TYPE 2 SUPERCONDUCTORS 67-01 M16-57966
ROLE OF THE PELTIER EFFECT IN THE DISPLACEMENT OF GRAIN BOUNDARIES IN METAL IN AN ELECTRICAL FIELD 67-09 M14-78011
PENETRANT INSPECTION
SEE FLUID PENETRANT TESTING
PENETRANTS
SEE FLUORESCENT PENETRANTS
PENETRATION
THE INTERACTION OF IRON WITH MOLTEN URANIUM 67-03 M14-65855
PENETRATION PHENOMENA IN STEEL CASTING WITH VARIOUS MIXTURES OF MOLD SANDS 67-04 M06-66583
THE EFFECT OF P VAPOR ON COMMERCIAL NI AND W 67-05 M14-68586
HYDRODYNAMIC CONTROL OF ARC FUSION DURING CO2-SHIELDED ARC WELDING WITH CONSUMABLE ELECTRODE 67-10 M11-78407
EFFECT OF TEMPERATURE ON THE PENETRATION OF HEAVY KEV IONS IN MONOCRYSTALLINE SOLID. PT. 1. XE133 IONS IN GOLD 67-11 M16-80322
PENETRATION, TEMPERATURE EFFECTS
EFFECT OF TEMPERATURE ON THE PENETRATION OF HEAVY KEV IONS IN MONOCRYSTALLINE SOLIDS. PT. 2. VARIOUS IONS IN GOLD, ALUMINUM, AND TUNGSTEN 67-11 M16-80323
PENETROMETERS
SEE MEASURING INSTRUMENTS
RHEOLOGICAL PROPERTIES
PERCUSSION WELDING
PERCUSSION WELD SURFACING--A NEW APPROACH FOR CARBIDE COATING OF TOOLS AND DIES 67-01 M12-58689
BUTT WELDING 0.2-0.3 MM DIAM WIRE IN METAL-WEAVING PRODUCTION 67-02 M11-61268
PERCUSSION WELDING OF RELAY ELEMENTS 67-03 M11-65054
BUTT WELDING OF 0.2-0.3 MM WIRE IN THE PRODUCTION OF WIRE GAUZE 67-05 M11-68268
THE APPLICATION OF TUNGSTEN CARBIDE BY PERCUSSION 67-06 M11-72060
CAPACITOR DISCHARGE SPOT WELDING OF RELAY ELEMENTS 67-07 M11-73974
PERCUSSION WELDING 67-10 M11-79960
PERFORATING
PERFORATED ZINC SHEETS BY ELECTROFORMING 67-03 M12-65679
ADJUSTABLE PERFORATING DIES 67-06 M07-70596
THE PRODUCTION OF CUTTING TOOLS FOR PERFORATED SHEETS BY SPARK EROSION 67-10 M08-78592
THE EVOLUTION OF THE SYSTEMS CONCEPT IN THE PERFORATING AND NOTCHING OF SHEET METAL 67-10 M08-79538
PERFORATIONS
SEE HOLES
PERITECTIC REACTIONS
NEW PHASE IN THE MERCURY-INDIUM SYSTEM 67-01 M14-58534
STUDY ON BINARY DIAGRAM OF AL-BE ALLOY 67-02 M13-61024
THE TERNARY SYSTEM PLUTONIUM-CERIUM-COBALT 67-03 M14-65087
THE EQUILIBRIUM DIAGRAM OF THE SYSTEM NIOBIUM-NICKEL 67-03 M14-65125
TH-THC PHASE DIAGRAM 67-04 M13-66274
INVESTIGATION OF BISMUTH ALLOYS WITH BARIUM AND BISMUTH ALLOYS WITH STRONTIUM 67-05 M13-69239
THE CUO-V2O5 SYSTEM 67-05 M14-68919
PHASE EQUILIBRIUM IN THE SYSTEM PBO-TIO2-ZRO2 67-07 M14-72825
CHEMICAL BOND AND STRUCTURE OF THE TERNARY COMPOUND INASTE 67-11 M01-80234
THE EUROPIUM-LEAD SYSTEM 67-12 M13-81827
CALCULATED MODEL FOR NAF-ALF3 SYSTEM 67-12 M13-82732
YTTERBIUM-LEAD SYSTEM 67-12 M13-82851
PERITECTOID REACTIONS
TRANSFORMATIONS AND STRUCTURES IN THE URANIUM-RHENIUM SYSTEM. PT. 3. FORMATION AND STRUCTURE OF DELTA --U2RE-- 67-07 M14-74231
THE SYSTEM GE-SE-TE AND THE PREPARATION AND PROPERTIES OF THE NEW NON-STOICHIOMETRIC COMPOUND GESE0.75TE0.25 67-09 M14-77015
REINVESTIGATION OF THE TITANIUM-RICH REGION OF THE TITANIUM-ALUMINIUM DIAGRAM 67-10 M14-78451
THE PHASE TRANSFORMATIONS OF CHROMIUM-PALLADIUM ALLOYS IN SOLID STATE 67-12 M13-82055
PERMALLOY, COATINGS
THE ELECTRODEPOSITION OF THIN MAGNETIC PERMALLOY FILMS 67-07 M12-73589
TESTING GALVANIC COATINGS BY RADIOCHEMICAL METHOD 67-12 M19-82935
PERMALLOY, CRYSTAL LATTICES
INVESTIGATION OF STACKING FAULTS, DISPERSION AND COHERENT SCATTERING REGIONS AND THE MICRODEFORMATION IN CONDENSED FILMS OF PERMALLOY AND NICKEL 67-01 M13-57349
MULTIPLE DIFFRACTION EFFECTS IN ANNEALED PERMALLOY FILMS 67-03 M13-65882
PERMALLOY, DIFFUSION
CU DIFFUSION IN ELECTRODEPOSITED PERMALLOY FILMS 67-07 M14-73591
PERMALLOY, ELECTRICAL PROPERTIES
INTERACTION OF FERROMAGNETIC AND SUPERCONDUCTING THIN FILMS 67-05 M16-68905
PERMALLOY, EVAPORATION
EVAPORATION OF PERMALLOY BY ELECTRON BOMBARDMENT 67-08 M14-75158
PERMALLOY, MAGNETIC PROPERTIES
MAGNETIZATION CURVES AND STATIC HYSTERESIS LOOPS OF THIN PERMALLOY FILMS 67-01 M15-57353
THE EFFECT OF UNIAXIAL ELASTIC STRESSES ON THE REMAGNETIZATION OF THIN PERMALLOY LAYERS 67-01 M15-57571
ON PARTICULARITIES OF MAGNETIC PROPERTIES OF THIN

FILMS WITH EXCHANGE ANISOTROPY
67-01 M15-57577
EFFECTIVE PERMEABILITY OF THIN MAGNETIC FILMS AS A FUNCTION OF AMPLITUDE OF RADIO FREQUENCY FIELD
67-02 M15-59924
TEMPERATURE DEPENDENCE OF OBLIQUE-INCIDENCE ANISOTROPY IN PERMALLOY FILMS
67-02 M15-61510
NEGATIVE OBLIQUE-INCIDENCE ANISOTROPY IN MAGNETOSTRICTION-FREE PERMALLOY FILMS
67-02 M15-61517
ON THE ORIGIN OF M-INDUCED ANISOTROPY IN NICKEL AND PERMALLOY FILMS
67-02 M15-61519
MEASURING THE LENGTH OF REMAGNETIZATION PULSES
67-02 M15-61681
RELATIONSHIP OF COERCIVE FORCE TO THICKNESS OF FERROMAGNETIC FILMS
67-02 M15-62073
POLARITY EFFECT OF INTERDOMAIN BOUNDARIES IN THIN MAGNETIC FILMS
67-02 M15-62075
LORENTZ MICROSCOPY OF GROWING DOMAINS IN PERMALLOY FILMS
67-03 M15-65899
IN-SITU MEASUREMENTS OF MAGNETIC PROPERTIES IN VACUUM-DEPOSITED PERMALLOY FILMS
67-04 M15-67104
LOCKING EFFECT ON MAGNETIZATION REVERSAL IN MAGNETIC THIN FILMS
67-04 M15-68170
MAGNETIZATION REVERSALS DRIVEN BY SINUSOIDAL FIELDS IN MAGNETIC THIN FILMS
67-04 M15-68171
THERMOMAGNETIC TREATMENT OF 66-PERMALLOY AND SILICON IRON IN A ROTATING MAGNETIC FIELD
67-05 M15-68257
SUPER HIGH PERMEABILITY AND UNIAXIAL ANISOTROPY OF 5 MO-PERMALLOY
67-05 M15-69202
ROTATIONAL ANISOTROPY IN PERMALLOY FILMS
67-05 M15-69388
EXCHANGE ANISOTROPY IN THIN MAGNETIC FILMS
67-06 M15-70871
EASY MAGNETIZATION AXIS OF PERMALLOY AS REVEALED BY ELECTRON DIFFRACTION
67-06 M15-71047
MAGNETIC THIN FILMS DEPOSITED ONTO A LIQUID-LIKE SURFACE
67-06 M15-71547
EXCHANGE ANISOTROPY IN THIN MAGNETIC FILMS
67-06 M15-71833
EFFECTIVE PERMEABILITY OF THIN MAGNETIC FILMS AS A FUNCTION OF THE AMPLITUDE OF A RADIOFREQUENCY FIELD
67-07 M15-72579
EFFECT OF SILICON ON THE LOW-INDUCTION PERMEABILITY OF 4-MOLYBDENUM PERMALLOY
67-07 M15-73532
EFFECT OF COMPOSITIONAL VARIATION ON THE PERMEABILITY OF MOLYBDENUM PERMALLOY
67-07 M15-73535
METALLURGY AND MAGNETIC PROPERTIES CONTROL IN PERMALLOY
67-07 M15-73538
RESONANCE METHOD FOR MEASUREMENT OF SMALL UNIAXIAL ANISOTROPY IN FINE FERROMAGNETIC WIRES
67-07 M15-73555
AVERAGE RIPPLE-ANGLE MAGNITUDE, WALL PINNING, AND SUSCEPTIBILITY IN THIN PERMALLOY FILMS
67-07 M15-73569
ANOMALOUS HYSTERESIS LOOPS IN PERMALLOY THIN FILMS NEAR 4.2 K
67-07 M15-73578
MAGNETIZATION RIPPLE IN MULTILAYER FILMS
67-07 M15-73579
PROPERTIES OF MANGANESE-PERMALLOY FILMS
67-07 M15-73590
DOMAIN CLEAVAGE AND THE CLEAVAGE ANGLE OF TEMPERED PERMALLOY FILMS
67-07 M15-73807
MAGNETOSTRICTION AND COMPOSITIONAL GRADIENTS IN BOAT-EVAPORATED PERMALLOY FILMS
67-09 M15-77431
PROXIMITY EFFECTS BETWEEN SUPERCONDUCTORS AND FERROMAGNETIC DOMAINS
67-09 M16-77970
TWO-LAYER FILMS OF MANGANESE-PERMALLOY WITH UNIDIRECTIONAL ANISOTROPY --FEATURES OF DOMAIN STRUCTURE--
67-10 M15-79834
STUDY OF THE ROTATION OF MAGNETIC MOMENT IN PERMALLOY FILMS
67-10 M15-79841
PERPENDICULAR ANISOTROPY IN 81NI-19FE THIN FILMS
67-11 M15-81096
COERCIVITY MEASUREMENTS OF COLD ROLLED MO-PERMALLOY BY A-C AND D-C METHODS
67-11 M15-81098
EFFECT OF DEPOSITION CONDITIONS ON ROTATING HYSTERESIS IN THIN FERROMAGNETIC FILMS
67-12 M15-82324
VARIATIONS OF CRYSTAL MAGNETIC ANISOTROPY IN MO-PERMALLOY WITH HEAT TREATMENTS
67-12 M15-82899

PERMALLOY, MAGNETIC PROPERTIES,
ROTATING FIELD MAGNETOMETER FOR MEASUREMENT OF ANISOTROPIC MAGNETIC MATERIALS
67-08 M15-74932

PERMALLOY, MECHANICAL PROPERTIES
INTERNAL STRESS OF ELECTRODEPOSITED NICKEL IRON FILMS
67-11 M17-80817

PERMALLOY, PHYSICAL PROPERTIES
POROSITY AND COERCIVE FORCE IN EVAPORATED PERMALLOY THIN FILMS
67-02 M15-59063

PERMALLOY, THIN FILMS
COMPOSITION GRADIENTS IN ELECTROPLATED PERMALLOY FILMS
67-03 M12-65656
COERCIVE FORCE AND ANISOTROPY FIELD OF MULTI-LAYER PERMALLOY FILMS
67-11 M15-81053
EXCHANGE ANISOTROPY IN OXIDIZED PERMALLOY THIN FILMS AT LOW TEMPERATURES
67-12 M15-82371
THE STABILITY OF CYLINDRICAL PERMALLOY FILMS IN AN INHOMOGENEOUS MAGNETIC FIELD
67-12 M15-83011

PERMANENT MAGNETS
HEAT TREATMENT OF HIGH-COERCIVITY ALLOYS OF THE MAGNICO TYPE
67-04 M10-66379
ON MAGNETIC PROPERTIES OF FE-CO FINE PARTICLE MAGNET
67-04 M15-67577
NEW FIGURE OF MERIT FOR CERAMIC PERMANENT MAGNET MATERIAL INTENDED FOR DC MOTOR APPLICATIONS
67-07 M15-73509
ANGULAR VARIATION OF COERCIVE FORCE IN PERMANENT MAGNET MATERIALS
67-07 M15-73511
THE APPLICATION OF SLFT MAGNETIC MATERIALS IN NUCLEAR ENGINEERING
67-07 M15-73814
MAGNETS MADE OF THE PERMANENT MAGNET MATERIALS OXIT AND OXILIT FOR THE FIELD EXCITATION OF D-C MOTORS
67-08 M20-75068
HEAT TREATMENT OF HIGH-COERCIVITY ALLOYS OF THE MAGNICO TYPE
67-11 M10-80981
COMPOSITE MATERIALS
67-12 M20-83004

PERMANENT MAGNETS, CASTING
PRODUCTION AND PROPERTIES OF ALNICO ALLOYS WITH COLUMNAR STRUCTURE
67-01 M06-58444

PERMANENT MAGNETS, CRYSTAL LATTICES
THE PRODUCTION OF COLUMNAR STRUCTURES IN HIGH-COBALT HIGH-TITANIUM PERMANENT MAGNET ALLOYS
67-08 M14-75985

PERMANENT MAGNETS, HEAT TREATMENT
LOW TEMPERATURE TREATMENT OF N.K.S. PERMEANENT MAGNET OF AL-NI-CO TYPE
67-08 M15-74431

PERMANENT MAGNETS, MAGNETIC MEASUREMENTS
METHOD FOR THE DETERMINATION OF THE TEMPERATURE DEPENDENCE OF THE DEMAGNETIZATION CURVE OF PERMANENT MAGNETS
67-08 M15-75069

PERMANENT MAGNETS, MAGNETIC PROPERTIES
MINOR LOOP LOSS PREDICTIONS IN DEVICES USING PERMANENT MAGNET MATERIALS
67-01 M15-58668
IMPROVEMENT IN MAGNETIC PROPERTIES OF MNAL-B PERMANENT MAGNETS BY SWAGING WORKING
67-02 M15-59741
THE COERCIVITY OF PERMANENT MAGNETS
67-02 M15-61030
A FAMILY OF NEW COBALT-BASE PERMANENT MAGNET MATERIALS
67-07 M15-73506
CONTRIBUTION TO THE TEMPERATURE DEPENDENCE OF THE MAGNETIC PROPERTIES OF PERMANENT MAGNET MATERIALS
67-08 M15-75987
STRUCTURE AND MAGNETIC PROPERTIES OF CO-W AND CO-MO ALLOYS
67-09 M15-76697
THE MAGNETIC ANISOTROPY AND THE COERCIVE FORCE OF A PERMANENT MAGNET ALLOY, VICALLOY
67-09 M15-77255
THE EFFECT OF THE ADDITION OF TUNGSTEN ON THE PROPERTIES OF NEW MAGNET ALLOY--MALCOLLOY-- IN THE COBALT AND ALUMINUM SYSTEM
67-09 M15-77994
CHANGES IN MAGNETIC PROPERTIES OF FE-AL-NI-CO-TI HIGH-COERCIVITY PERMANENT MAGNET ALLOYS DURING THE AGING PROCESS
67-09 M15-78208

PERMANENT MAGNETS, MANUFACTURING
PREPARATION AND PROPERTIES OF ESD MAGNETS FROM SINGLE-DOMAIN PARTICLES
67-01 M09-57997

PERMANENT MAGNETS, MATERIALS
ROTATING HYSTERESIS IN PLATINUM-COBALT ALLOYS
67-01 M15-58060
PROBLEM OF DETERMINING THE MAGNETIC ANISOTROPY CONSTANTS OF A COBALT-PLATINUM ALLOY
67-01 M15-58061
COBALT-PLATINUM ROTORS FOR SMALL SYNCHRONOUS DEVICES--ECONOMICS OF DESIGN AND CONSTRUCTION
67-05 M20-69715

PERMANENT MAGNETS, PHASE TRANSFORMATIONS
INFLUENCE OF CARBON IN MAGNICO ALLOYS
67-08 M14-74991

PERMANENT MAGNETS, POWDER METALLURGY
STUDY OF THE PRODUCTION OF SINTERED MAGNETIC POLES USED FOR TRUCK STARTERS 67-02 M09-59575
PERMANENT CERMET MAGNETS MADE FROM GROUND AND MACHINED CAST MAGNET WASTE 67-05 M09-69305
RESEARCH INTO MAGNIKO POWDERED METAL MAGNETS WITH HIGH COERCIVE FORCES 67-08 M09-75455
PERMANENT MAGNETS, REMANENCE
THE REMANENCE BEHAVIOR OF PERMANENT MAGNETIC MATERIALS 67-02 M15-61034
PERMANENT MOLD CASTING
DIE CASTING AND AUTOMATION 67-01 M06-57239
METAL MELT-OUT CORES IN DIE CASTING 67-01 M06-57320
SOME EXPERIMENTS ON THE CHILL ZONE OF CAST IRONS 67-01 M06-57404
IMPROVING THE QUALITY OF CAST IRON PIPES, CAST BY THE SEMICONTINUOUS METHOD 67-01 M06-57464
EXPERIMENTAL WORK ON GRAVITY DIE CASTING OF IRON 67-02 M06-59079
ELIMINATION OF CHILLING IN THINWALLED MAGNESIUM-TREATED IRON CASTINGS 67-02 M06-61007
CASTING IRON FLANGES OF FINNED TUBES INTO ANODIZED CHILL MOLDS 67-02 M06-61810
AUTOMATIC GRAVITY DIECASTING MACHINE FOR ALUMINIUM TRACTOR-ENGINE PISTONS 67-02 M06-61910
FORMATION OF GAPS BETWEEN THE CASTING AND THE METAL MOULD 67-02 M06-61915
DIE MATERIALS PACE CASTING PROGRESS 67-03 M06-65491
CALCULATION OF FEEDERS FOR AL-SI ALLOY CASTINGS 67-04 M06-67943
INGOT CASTING AND THE PRODUCTION OF SEMIFINISHED PRODUCTS FROM MONEL METAL NMZHMTS28-25, -1.5 67-05 M03-68234
PUSH-BUTTON GRAVITY DIECASTING 67-05 M06-69795
IMPROVING THE QUALITY OF SEMICONTINUOUSLY CAST IRON PIPES 67-06 M06-70752
FOUNDRY GROWS ON IDEAS 67-06 M06-71007
EFFICIENT MELTING AND CASTING METHODS IN THE MASS PRODUCTION OF LIGHT-METAL CASTINGS 67-06 M06-71190
SOLIDIFICATION OF SIMPLE SHAPED ALUMINUM AND ITS ALLOY CASTINGS IN METALLIC MOLDS 67-06 M06-72187
OPERATING EXPERIENCE IN THE CASTING OF COMPLEX V ENGINES 67-07 M06-72489
DIRECT CHILL CASTING OF ALUMINIUM AND ITS APPLICATION AT COMALCO ALUMINIUM --BELL BAY-- LIMITED 67-07 M06-73611
HEAT EXCHANGE PROCESSES IN WATER-COOLED PERMANENT MOLDS 67-08 M06-74347
THE VACUUM CASTING OF HIGH PURITY COPPER PARTS 67-08 M06-75037
CASTING IRON FLANGES FOR FINNED PIPES IN ANODISED DIES 67-09 M06-78082
N. C. AND CONVENTIONAL MACHINING OF AUTOMATIC TRANSMISSION COMPONENTS 67-10 M08-79704
INTERACTION OF LIQUID TIN BRONZE WITH MOLD MOISTURE 67-12 M06-82092
PERMANENT MOLD CASTINGS
COMMERCIAL JETS--THE BIG SWITCH TO PRECISION FORMED PARTS 67-09 M20-77180
PERMANENT MOLD CASTINGS, DESIGN
GATING AND CASTING TECHNIQUES IN PERMANENT MOLD CASTING OF ALUMINUM ALLOYS 67-03 M06-65352
SAND CASTINGS AND GRAVITY DIE CASTINGS RE-DESIGNED FOR PRESSURE CASTING 67-06 M06-70801
PERMANENT MOLD CASTINGS, MAGNETIC PROPERTIES
CASTINGS FROM NONMAGNETIC IRON CONTAINING 2 PER CENT NI 67-04 M15-66414
PERMANENT MOLD CASTINGS, MECHANICAL PROPERTIES
NEW ZINC ALLOY FOR PROTOTYPES 67-07 M17-73960
PERMANENT MOLD CASTINGS, PHYSICAL PROPERTIES
PROPERTIES OF COMMERCIAL CASTING ALLOYS 67-08 M06-74809
PERMANENT MOLD CASTINGS, SOLIDIFICATION
HEAT EXTRACTION BY METALLIC MOLDS DURING SOLIDIFICATION OF SIMPLE SHAPED ALUMINUM AND ITS ALLOY CASTINGS 67-06 M08-70675
PERMANENT MOLDS
MOLYBDENUM DIES FOR THE PRESSURE DIECASTING OF STEEL 67-04 M06-67950
PERMANENT MOLD FOUNDRY SLASHES DIE COST WITH SHAW CASTING PROCESS 67-06 M06-70227
PERMANENT MOLDS, CASTING
THE WHEELDON PROCESS 67-10 M06-79749
PERMANENT MOLDS, COATING
HEAT INSULATION COATINGS FOR CHILL MOLDS 67-04 M06-67942
SOME PROPERTIES OF METAL MOLD COATING FOR CAST IRON 67-06 M06-70851
THEORETICAL DETERMINATION OF OPTIMUM THICKNESS OF COATINGS OF PERMANENT MOLDS IN CENTRIFUGAL CASTING OF PIPE BILLETS 67-08 M06-74591
PERMANENT MOLDS, SERVICE TIME
COOLING OF MOLDS DURING PIPE CASTING 67-04 M06-67505
PERMANGANATES, CLEANING
STUDY OF IMPURITY HETEROGENEITIES IN INSB BY MEANS OF A PERMANGANATE ETCHANT 67-06 M16-70669
PERMEABILITY
PERMEABILITY, SOLUBILITY, AND DIFFUSIVITY OF OXYGEN IN BCC IRON 67-01 M14-57410
ON THE OPTIMUM GAS PERMEABILITY OF SINTER CHARGE AND THE CONDITIONS OF FUEL COMBUSTION 67-02 M02-62256
INVESTIGATION OF THE FILTERING PROPERTIES OF BIMETALLIC SINTERED FILTERS 67-02 M09-61705
GAS PERMEABILITY OF POROUS MATERIALS FROM REFRACTORY COMPOUNDS. PT. 3 67-02 M09-61785
THE MOTION OF GASES AND LIQUIDS IN POROUS SINTERED MATERIALS 67-02 M09-62125
PROCEDURE FOR DETERMINING THE RATE OF PENETRATION OF MELTS INTO MATERIALS OF CAPILLARY POROSITY 67-02 M15-62124
INVESTIGATION OF SILICON CARBIDE BRICK 67-03 M05-65356
EFFECT OF ORDERING ON THE HYDROGEN PERMEABILITY OF IRON ALLOYS WITH COBALT 67-04 M14-67660
POROUS METALS FILTER LIQUIDS, CUT NOISE, DAMPEN VIBRATION 67-05 M01-68428
CONTINUOUS MEASUREMENT OF THE PERMEABILITY OF A SINTER MIX 67-05 M02-68536
STUDY OF THE PERMEABILITY OF PORCUS MATERIALS OF REFRACTORY COMPOUNDS 67-05 M09-68703
THE GAS PERMEABILITY OF PELLETS IN THE BLAST FURNACE 67-06 M04-72294
PERMEABILITY TECHNIQUES FOR CHARACTERIZING FINE POWDERS 67-06 M09-71798
INFLUENCE OF THE OVER-WET ZONE ON THE BED PERMEABILITY IN SINTERING IRON ORES 67-07 M02-73001
INTERRELATIONSHIP BETWEEN GAS PERMEABILITY AND THERMAL STATE OF BLAST FURNACES 67-08 M04-74325
PRODUCING POROUS PARTS OF REFRACTORY OXIDES AND ANALYSIS OF THEIR GAS PERMEABILITY 67-08 M09-75430
FILTERING PROPERTIES OF TWIN-LAYER SINTERED FILTERS 67-08 M09-75850
EFFECT OF SLAG-FORMING ZONE ON THE GAS PERMEABILITY OF THE BURDEN 67-09 M04-77356
SILICON OXYNITRIDE REFRACTORIES 67-09 M05-77966
EFFECT OF VACUUM ARC MELTING ON THE HYDROGEN PERMEABILITY OF STEELS 67-11 M14-80594
HYDROGEN PERMEABILITY OF SOME TRANSITION METALS AND METALS OF GROUP 1 OF THE PERIODIC SYSTEM 67-11 M14-80595
PERMEABILITY OF POROUS MATERIALS FROM REFRACTORY COMPOUNDS 67-12 M09-82679
INFLUENCE OF TEMPERATURE AND PRESSURE ON HYDROGEN PERMEABILITY OF KH18N10T STAINLESS STEEL 67-12 M14-81846
HYDROGEN PERMEABILITY OF IRON AND STEEL AT ELEVATED TEMPERATURES 67-12 M14-82425
PERMEATION OF HYDROGEN AND DEUTERIUM IN ALPHA IRON 67-12 M15-82876
PERMEABILITY, ALLOYING EFFECTS
GASES IN COPPER ALLOYS 67-08 M14-74552
PERMEABILITY, MICROSTRUCTURE
THE RELATIONSHIP OF PHYSICAL PROPERTIES, MICROSTRUCTURE, AND FABRICATION 67-02 M15-60707
PERMEABILITY /MAGNETIC/
SEE MAGNETIC PERMEABILITY
PERMEATION
SEE PENETRATION
PERMITTIVITY
SEE DIELECTRIC CONSTANT
PEROXIDES, CORROSION ENVIRONMENTS
CORROSION OF ZIRCALOY-2 BY HYDROGEN PEROXIDE AT ELEVATED TEMPERATURE 67-02 M18-59452
PERTURBATION THEORY
COMPRESSIBILITY AND BINDING ENERGY OF THE SIMPLE METALS 67-07 M15-73942

PERTURBATION THEORY
ELECTRONIC SPECIFIC HEATS OF SILVER-GOLD ALLOYS 67-07 M16-74061
EFFECT OF HEAVY DOPING ON THE SEMICONDUCTOR BAND STRUCTURE 67-07 M16-74204
OPTICAL PROPERTIES OF ZINC TELLURIDE 67-08 M15-74668
STRENGTH OF THE S-F EXCHANGE INTERACTION IN RARE-EARTH INTERMETALLICS 67-08 M16-75006
RADIATIVE RECOMBINATION IN N-TYPE INP 67-09 M16-77176
PETROGRAPHY
SEE PETROLOGY
PETROLEUM BASE QUENCHANTS
FIRE-SAFE METAL QUENCHING 67-05 M10-68440
PETROLEUM INDUSTRY
ULTRASONIC NONDESTRUCTIVE TESTS. CORROSION AND MATERIAL FLAW DETECTION 67-06 M18-71225
PETROLEUM INDUSTRY, CORROSION
EFFECTS OF MUTUAL INTERFERENCE. OIL WELL CASING CATHODIC PROTECTION SYSTEMS 67-06 M18-71227
OIL FIELD BRINE VESSELS. CATHODIC PROTECTION FOR BRINE HANDLING EQUIPMENT 67-06 M18-71228
PETROLEUM PIPELINES
MANUFACTURE OF WELDED STEEL PIPE 67-06 M07-72139
ALLOYING OF STEELS FOR PETROLEUM INDUSTRY TUBING 67-12 M10-83536
PETROLEUM PIPELINES, CORROSION
THICK FILM COATED TUBING. INTERNAL COATINGS FOR OIL FIELD TUBULAR GOODS 67-06 M18-71226
OIL WELL CORROSION TREATMENT--POLARIZATION DATA FOR FIELD TESTING INHIBITORS 67-06 M18-72338
PETROLEUM REFINERIES
SEE REFINERIES
PETROLEUM REFINING
KH23N7SL STEEL AS A SUBSTITUTE FOR EI316 NICKEL STEEL USED FOR HEAT RESISTANT CASTINGS 67-05 M17-68365
PETROLEUM REFINING, MATERIALS
WELDED EXPANDED TUBES OF LARGE DIAMETER MADE OF STEEL BIMETAL 67-06 M11-71259
EXPANDED LARGE DIAMETER WELDED PIPES OF TWO-LAYER STEEL 67-08 M11-75728
PETROLOGY
SEMI-AUTOMATIC PREPARATION OF ULTRA-THIN AND LARGE-AREA PETROLOGICAL SECTIONS 67-03 M05-65673
MINERALOGICAL COMPOSITION OF LIME-SPODUMENE CAKES 67-03 M19-65778
PHASE COMPOSITION OF OXYGEN-CONVERTER PHOSPHATIC SLAGS OF LOW SILICA CONTENT 67-12 M14-82106
PH
AUTOMATIC CONTROL OF PH DURING DEPOSITION OF IN CONCENTRATE 67-05 M03-68232
EFFECT OF PH ON THE CONDITION OF THE PYRITE SURFACE 67-08 M02-75086
EFFECT OF BASICITY ON THE PROPERTIES OF ORE SINTER 67-08 M09-75589
METAL ACIDITY IN THE OXYGEN CONVERTER PROCESS 67-09 M04-77858
PH FACTOR
SEE PH
PH VALUE
SEE PH
PHASE /STATE OF MATTER/
SEE PHASES /STATE OF MATTER/
PHASE BOUNDARY
DETERMINATION OF THE DISPLACEMENT VECTOR AT THE ANTI-PHASE BOUNDARIES IN RUTILE BY CONTRAST EXPERIMENTS IN THE ELECTRON MICROSCOPE 67-01 M13-57568
ANOMALOUS CONTRAST FROM AN ANTI-PHASE DOMAIN BOUNDARY IN BETA-BRASS 67-02 M13-60815
STACKING FAULTS AND ANTIPHASE BOUNDARIES IN U409 67-04 M13-67467
THE THALLIUM-INDIUM SYSTEM AT ELEVATED PRESSURES AND TEMPERATURES 67-04 M14-66050
THE DISLOCATION STRUCTURES OF THE BROAD FACES OF WIDMANSTATTEN GAMMA PLATES IN AN AL-15 PER CENT AG ALLOY 67-04 M14-66538
ALLOY COMPOSITIONS OF HFB2 WITH URANIUM AND TRANSITION METAL BORIDES 67-04 M14-67453
TRANSMISSION ELECTRON MICROSCOPIC OBSERVATION OF LATTICE DEFORMATION IN ANTIPHASE BOUNDARIES OF ORDERED FE-SI ALLOYS 67-05 M14-69786
COMMENT ON THE BOUNDARY OF THE TRANSFORMATION BA --BODY-CENTERED-- BA --COMPACT HEXAGONAL-- 67-06 M14-72013
POSITION OF THE TEMPERATURE RANGE OF THE SIGMA PHASE IN FERRITIC CHROMIUM STEELS 67-07 M13-72676
ANTI-PHASE DOMAINS AND DISLOCATION CONFIGURATIONS IN THE FE-13 AT. PER CENT SI ALLOY 67-07 M13-73146
THE GAMMA LOOP IN THE FE-AL SYSTEM 67-07 M13-74175
NUMERICAL DETERMINATION OF PHASE COMPOSITION IN MULTI-ELEMENT SYSTEMS, FOR EXAMPLE U-C-CR SYSTEM 67-07 M13-74236
INVESTIGATIONS OF THE EFFECT OF SILICON OXIDE AND OF THE OXIDATION DEGREE ON THE PHASE BOUNDARIES, IN PARTICULAR OF THE MISCIBILITY GAP, IN THE SYSTEM CAO-P2O5-FEO-FE2O3-SIO2 AT 1600 C 67-07 M14-73282
ELECTRON TRANSMISSION MICROSCOPY OF NIAL 67-08 M13-75219
INTERFACIAL STRUCTURE OF THETA PRECIPITATES IN AL-4 PER CENT CU 67-09 M13-77935
PHASE RELATIONS IN THE ZRO2-MGO SYSTEM 67-09 M14-76751
INTERNAL FRICTION OF ZIRCONIUM DIOXIDE AT TEMPERATURES 20 TO 1250 C 67-09 M17-76777
THE VARIATIONS OF THE COMPONENTS IN THE INCLUSION 67-11 M04-80750
ORDERED PT3-CO ALLOY STUDIED IN THE FIELD-ION MICROSCOPE 67-12 M14-82365
THE REACTIONS OF LIQUID TITANIUM AND HAFNIUM WITH CARBON 67-12 M14-82878
PHASE BOUNDARY, ALLOYING EFFECTS
ANTIPHASE BOUNDARIES IN SILICON IRON SINGLE CRYSTALS REVEALED BY ETCHING 67-08 M16-75241
PHASE BOUNDARY, COMPOSITION EFFECTS
PRIMARY SOLID-SOLUTION PHASE BOUNDARY IN SILVER CORNER OF SILVER-CADMIUM-INDIUM TERNARY SYSTEM 67-12 M14-82758
PHASE DECOMPOSITION
SEE ALSO EUTECTIC DECOMPOSITION
INVESTIGATION OF THE KINETICS OF DECOMPOSITION OF SUPERSATURATED SOLID SOLUTION OF D-16 ALLOY 67-03 M14-65788
TRANSFORMATION OF WUSTITE 67-05 M04-69480
DISSOLUTION OF THE PHASES IN THE NICKEL-GOLD SYSTEM DURING ISOTHERMAL ANNEALING 67-05 M14-68588
IDENTIFICATION AND GROWTH TOPOLOGY OF CRYSTALS DEPOSITED IN AN AL-CU-AG ALLOY 67-05 M14-68594
DECOMPOSITION OF GAMMA PHASE IN URANIUM ALLOYS CONTAINING 8, 10.8, AND 14.3 WT PER CENT MOLYBDENUM 67-05 M14-68722
SOLID SOLUTION DISINTEGRATION KINETICS IN THE ALLOY MG-AL 67-05 M14-68848
THE INITIAL STAGES OF DISINTEGRATION OF CO-TA AND CO-NB SUPERSATURATED SOLID SOLUTIONS 67-05 M14-68858
INVESTIGATION OF THE DECOMPOSITION OF A ZINC-SUPERSATURATED BETA PHASE IN THE COPPER-ZINC SYSTEM 67-05 M14-69275
STUDY OF STRUCTURAL CHANGES IN THE SECOND STAGE OF DECOMPOSITION OF AL-ZN ALLOY 67-05 M14-69644
HEAT TREATMENT OF NONFERROUS ALLOYS 67-06 M10-71935
A DEVICE FOR INVESTIGATING THE ISOTHERMAL DECOMPOSITION OF THE AUSTENITE IN IRON 67-06 M14-70195
EARLY STAGES OF SPINOIDAL DECOMPOSITION IN AN ALUMINUM-ZINC ALLOY 67-09 M13-77594
THE USE OF HIGH-TEMPERATURE MICROSCOPY TO INVESTIGATE THE DECAY OF CEMENTITE IN MALLEABLE CAST IRON ALLOYS 67-09 M14-77105
PEARLITE AND BAINITE FORMATION IN A CU-16.5 AT. PER CENT SN ALLOY 67-09 M14-77592
DECOMPOSITION OF AUSTENITE IN CAST SILICON STEELS AT SUBCRITICAL TEMPERATURES 67-10 M14-79329
INFLUENCE OF THE PARTIAL MARTENSITIC TRANSFORMATION ON THE ISOTHERMAL TRANSFORMATION OF AUSTENITE 67-10 M14-80016
TRANSFORMATIONS IN HEAT RESISTANT STEELS, AN ATTEMPT AT AN EQUILIBRIUM REPRESENTATION IN THE CARBIDE PHASES 67-11 M14-80334
ELECTRON-MICROSCOPIC INVESTIGATION OF INITIAL STAGES IN THE DECOMPOSITION OF SUPERSATURATED CU-2 PER CENT BE SOLID SOLUTION 67-11 M14-81045
THE PHENOMENA OF GRAPHITE PRECIPITATION OF CALCIUM GRAPHITE STEEL 67-11 M14-81058
DEFORMATION AND FRACTURE OF GOLD-PLATINUM POLYCRYSTALS STRENGTHENED BY SPINOIDAL DECOMPOSITION 67-11 M17-81263

CRYSTALLOGRAPHIC STUDY OF THE VO2.33--V3O7-- PHASE
67-12 M13-83154
INFLUENCE OF OXYGEN ON THE KINETICS OF THE BETA-PHASE DECOMPOSITION OF THE TITANIUM ALLOY VT15
67-12 M14-82162
THEORY OF THE INFLUENCE OF PRESSURE ON AUSTENITE DECOMPOSITION IN HYPO-EUTECTOIDAL STEEL
67-12 M14-82411
MORPHOLOGY AND KINETICS OF AUSTENITE DECOMPOSITION AT HIGH PRESSURE
67-12 M14-82869
AMORPHOUS FERROMAGNETIC PHASE IN IRON-CARBON-PHOSPHORUS ALLOYS
67-12 M15-83273

PHASE DECOMPOSITION, MAGNETIC PROPERTIES
STRUCTURE AND PROPERTIES OF FE-CO-NI-AL-CU ALLOYS IN HIGH-COERCIVITY STATE
67-08 M15-74627

PHASE DECOMPOSITION, PRESSURE EFFECTS
EFFECTS OF PRESSURE ON THE STRUCTURE OF IRON-CARBON MARTENSITES
67-11 M13-81593

PHASE DECOMPOSITION, STRESS EFFECTS
COMBINED INFLUENCE OF PLASTIC DEFORMATION AND AGING ON STRUCTURE AND PROPERTIES OF TS6 TITANIUM ALLOY
67-04 M17-66487

PHASE DECOMPOSITION, TEMPERATURE EFFECTS
HIGH-TEMPERATURE STRENGTH AND STRUCTURAL CHANGE OF TYPE 316 AUSTENITE STAINLESS STEEL CASTINGS
67-02 M17-59156

PHASE DIAGRAM REACTIONS
SEE ALSO EUTECTIC DECOMPOSITION
EUTECTIC REACTIONS
EUTECTOID REACTIONS
MONOTECTIC REACTIONS
PERITECTIC REACTIONS
PERITECTOID REACTIONS
PHASE DECOMPOSITION
STRUCTURE AND PROPERTIES OF COMPOUNDS FORMED BY ALUMINA AND OXIDES OF THE ELEMENTS OF GROUP 2-B
67-04 M14-66311
PHASE EQUILIBRIA IN THE SYSTEM CAO-YB2O3
67-04 M14-67324
THE AU-PB-SN TERNARY SYSTEM
67-06 M14-70795
PLANES AND NONVARIANT EQUILIBRIA IN THE SYSTEM COPPER-CADMIUM-ZINC
67-06 M14-71660
INVESTIGATIONS ON THE BINARY SYSTEMS OF MANGANESE WITH YTTRIUM, SAMARIUM, GADOLINIUM, DYSPROSIUM, HOLMIUM, AND ERBIUM USING THE AMALGAM PROCESS
67-06 M14-71667
METAL-REFRACTORY REACTION STUDIES IN THE IRON-CHROMIUM-SILICA SYSTEM
67-08 M14-75035
PREPARATION AND PROPERTIES OF RARE-EARTH SILICATES AND ALUMINATES
67-08 M14-75999
PHASE EQUILIBRIA IN THE TERNARY SYSTEM PLUTONIUM-CERIUM-IRON
67-09 M14-76324
CONSTITUTIONAL STUDIES ON THE TERNARY SYSTEM PLUTONIUM-MOLYBDENUM-CARBON, PLUTONIUM-SILICON-CARBON AND PLUTONIUM-THORIUM-CARBON
67-09 M14-76345
THERMODYNAMIC AND PHASE STUDIES FOR PLUTONIUM AND URANIUM-PLUTONIUM OXIDES WITH APPLICATION TO COMPATIBILITY CALCULATIONS
67-09 M14-76349
THE HAFNIUM-CARBON PHASE DIAGRAM
67-09 M14-77690
THE CONSTITUTION OF ALLOYS OF GOLD AND MERCURY
67-11 M14-80305
NEW PHASES IN THE VANADIUM-IRIDIUM SYSTEM AND A TENTATIVE CONSTITUTION DIAGRAM
67-11 M14-80311
PHASE RELATIONS IN THE ZINC-RICH PORTION OF THE PLUTONIUM-ZINC SYSTEM
67-11 M14-80316

PHASE DIAGRAM REACTIONS, ALLOYING EFFECTS
MAGNETIC PROPERTIES OF ZINC-RICH ZINC-MANGANESE ALLOYS IN THE LIQUID AND SOLID STATE
67-06 M15-71662

PHASE DIAGRAMS
REFRACTORY REACTIONS WITH METAL OXIDES
67-01 M04-58477
THE VANADIUM-OSMIUM ALLOYS
67-01 M13-57293
USING THE MICROHARDNESS METHOD FOR STUDYING QUATERNARY CONSTITUTION DIAGRAMS
67-01 M13-57311
THE COPPER-TIN-ARSENIC CONSTITUTION DIAGRAM. PT. 1. SOLIDIFICATION REACTIONS
67-01 M13-57419
THE COPPER-TIN-ARSENIC CONSTITUTION DIAGRAM. PT. 2. REACTIONS IN THE SOLID STATE
67-01 M13-57420
INTERMEDIATE PHASES IN THE MAGNESIUM-CERIUM SYSTEM BETWEEN MAGNESIUM AND MG3CE
67-01 M13-57500
PHASE EQUILIBRIA IN THE TI-V-C SYSTEM AT 1450, 1600 AND 1800 C
67-01 M13-57600
THE COPPER CORNER OF THE COPPER-NICKEL-BORON SYSTEM
67-01 M13-58046
STUDY OF THE MANGANESE-BORON SYSTEM
67-01 M13-58058
ZIRCONIUM-VANADIUM-BORON SYSTEM
67-01 M13-58059
INVESTIGATION OF RARE-EARTH METAL SINGLE CRYSTALS AND ALLOYS
67-01 M13-58084
INTERDIFFUSION BETWEEN COMPONENTS AND THE PHASE DIAGRAM OF THE TI-W SYSTEM
67-01 M13-58099
X-RAY AND THERMOGRAPHIC INVESTIGATION OF ALLOYS IN THE SB2TE3-SB2SE3 SYSTEM
67-01 M13-58147
X-RAY INVESTIGATION OF THE SB2S3-BI2TE3 SYSTEM
67-01 M13-58148
CLASSIFICATION OF BINARY DIAGRAMS OF ALUMINUM ALLOYS
67-01 M13-58367
PHASE DIAGRAMS. PT. 2
67-01 M13-58505
THE PARTIAL LEAD-SELENIUM --0 TO 76 AT. PER CENT SE -- PHASE DIAGRAM
67-01 M14-57424
THE STRUCTURE OF SOME ALLOYS IN THE TERNARY TI-MO-C SYSTEM
67-01 M14-57599
INVESTIGATIONS OF THE KINETICS OF SOLUTION OF PRECIPITATES IN A BINARY ALCU-ALLOY AND THE EFFECT OF ADDITIONS OF MAGNESIUM, MANGANESE, SILICON, ZINC AND IRON
67-01 M14-58223
OXIDATION-REDUCTION DIAGRAM
67-01 M14-58368
COMPATIBILITY OF U-PU-FZ FUEL ALLOYS WITH POTENTIAL CLADDING MATERIALS
67-01 M14-58585
THERMODYNAMIC ASPECTS OF THE TEMPERATURE-PRESSURE PHASE DIAGRAM OF INTE
67-01 M15-57115
THERMOCHEMICAL INVESTIGATION OF ALLOYS OF THE TI-AL SYSTEM IN THE REGION OF THE ALPHA-SOLID SOLUTION
67-01 M15-58098
THE DEVELOPMENT AND EVALUATION OF HYPEREUTECTIC CARBIDES
67-02 M05-60712
PREPARATION AND PROPERTIES OF ALUMINUM BORIDES
67-02 M05-62111
THE ROLE OF THE LABORATORY IN HEAT TREATING
67-02 M10-59804
ESTABLISHMENT OF DIAGRAMS OF STRUCTURES OF CHROMIUM AND TUNGSTEN STEELS ON THE BASIS OF THE EXTENT IN SPACE OF THE AUSTENITE DOMAIN IN THE TERNARY ALLOYS IRON---CHROMIUM OR TUNGSTEN---CARBON
67-02 M13-58928
THE QUASIBINARY SYSTEM INTI-INBI
67-02 M13-59441
THE GA-AS-SI TERNARY PHASE SYSTEM
67-02 M13-59453
PHASE EQUILIBRIUM DIAGRAM OF THE SYSTEM OF THE INTERMETALLIC COMPOUNDS NBCR2-ZRCR2
67-02 M13-59594
INVESTIGATION OF THE SYSTEM TICR2-TACR2-NBCR2
67-02 M13-59610
X-RAY MICROGRAPHY STUDY OF SOME ALLOYS IN THE ZR-FE AND ZR-CO SYSTEMS
67-02 M13-59660
INTERACTION OF RUTHENIUM WITH TANTALUM
67-02 M13-59665
PHASE DIAGRAM OF THE HFC-MO SYSTEM
67-02 M13-59666
INVESTIGATION OF THE EQUILIBRIUM DIAGRAM OF TITANIUM-RICH ALLOYS IN THE TI-AL SYSTEM
67-02 M13-59837
PHASE DIAGRAMS OF THE TI-P SYSTEM
67-02 M13-59839
INVESTIGATION OF THE ALLOYS IN THE TI-AL-V SYSTEM
67-02 M13-59840
THE TERNARY CR-CO-SI SYSTEM
67-02 M13-59888
CONSTITUTION DIAGRAM OF THE ZR-FE-B SYSTEM
67-02 M13-59889
INTERACTIONS BETWEEN THE COMPOUND NIAL AND NIOBIUM
67-02 M13-59891
INVESTIGATION OF THE TICR2-ZRCR2 SYSTEM
67-02 M13-59897
CONTRIBUTION TO THE EQUILIBRIUM DIAGRAM OF THE SYSTEM MERCURY-INDIUM
67-02 M13-60615
DIAGRAM SHOWING PHASE RELATIONS OF THE OXIDE INCLUSIONS FORMED IN STEELS OF THE FE-CR-O SYSTEM
67-02 M13-60623
X-RAY STRUCTURAL AND METALLOGRAPHIC INVESTIGATIONS OF NB-CO-C ALLOYS
67-02 M13-60741
ON THE TUNGSTEN-RICH REGION OF THE TUNGSTEN-SILICON PHASE EQUILIBRIUM DIAGRAM
67-02 M13-60742
PHASE EQUILIBRIUM DIAGRAM OF THE TI-NB-CR SYSTEM
67-02 M13-60743
PHASE EQUILBRIUM DIAGRAM AND PROPERTIES OF ALUMINUM-SCANDIUM ALLOYS
67-02 M13-60744
THE QUATERNARY SYSTEM, U-UMN2-UAL2-UFE2
67-02 M13-60877
STUDY ON BINARY DIAGRAM OF AL-BE ALLOY
67-02 M13-61024
PHASE EQUILIBRIA IN THE TERNARY SYSTEMS ZR-CO-C AND

NB-FE-C 67-02 M13-61635
FUSIBILITY CURVE OF THE KCL-THCL4 SYSTEM 67-02 M13-61725
PHASE EQUILIBRIA IN THE SYSTEM MOLYBDENUM-CHROMIUM-CARBON 67-02 M13-61790
X-RAY INVESTIGATIONS IN A FEW T-T5-AL SYSTEMS 67-02 M13-61888
THE TITANIUM-RHODIUM ALLOYS 67-02 M13-61890
STRUCTURE OF SOME ALLOYS OF THE TITANIUM-VANADIUM-CARBON SYSTEM 67-02 M13-62178
STATE DIAGRAM OF THE CHROMIUM-GERMANIUM SYSTEM 67-02 M13-62182
TERNARY CHEMICAL COMPOUNDS IN THE NI-TI-NB SYSTEM 67-02 M13-62183
INTERMETALLIC COMPOUNDS IN THE RARE-EARTH METALS-ALUMINUM SYSTEMS AND SOME OF THEIR PROPERTIES 67-02 M13-62185
PHASE COMPOSITION AND SOME PROPERTIES OF ALLOYS OF THE MOLYBDENUM-NICKEL-BORON SYSTEM 67-02 M13-62186
PHASE DIAGRAM OF THE SCANDIUM-RHENIUM SYSTEM 67-02 M13-62238
TI-V-C TERNARY SYSTEM 67-02 M13-62240
THERMODYNAMIC CALCULATION OF THE EQUILIBRIUM DIAGRAM OF THE IRON-CARBON SYSTEM 67-02 M13-62253
APPLYING THE THEORY OF REGULAR SOLUTIONS TO THE CALCULATION OF A CONSTITUTION DIAGRAM OF THE FE-C SYSTEM. PT. 2 67-02 M13-62255
ISOTHERMAL SECTION OF THE FE-V-C TERNARY SYSTEM AT 500 C 67-02 M13-62275
GOLD ALLOY SYSTEMS 67-02 M14-58906
KARAT GOLD ALLOYS FOR JEWELRY 67-02 M14-58914
HYDROGEN SOLUBILITY IN ZIRCONIUM ALLOYS 67-02 M14-59019
REINVESTIGATION OF THE TITANIUM-RICH REGION OF THE TITANIUM-ALUMINUM EQUILIBRIUM DIAGRAM 67-02 M14-61776
RELATIONSHIP BETWEEN CHEMICAL COMPOSITION AND PROPERTIES OF MG-LI ALLOYS 67-02 M17-59198
ALLOY PROPERTIES ON AN ALUMINIDE BASE 67-02 M17-62180
CURRENT REFRACTORIES RESEARCH AND ITS APPLICATIONS 67-03 M04-65932
CONTRIBUTION TO THE INVESTIGATION OF THE PRESSURE-TEMPERATURE DIAGRAM OF PURE BERYLLIUM 67-03 M13-65261
PHASE COMPOSITION OF FLUORINE-BEARING SLAGS OF ELECTROSLAG REMELTING 67-03 M13-65777
STUDY OF THE PHASE DIAGRAM OF THE W-MO-TI TERNARY SYSTEM 67-03 M13-65792
X-RAY DIFFRACTION ANALYSIS OF THE NB-NI-AL SYSTEM 67-03 M13-65793
PHASE EQUILIBRIUM IN THE HF-RE-C TERNARY SYSTEM 67-03 M13-65794
THE TERNARY SYSTEM PLUTONIUM-CERIUM-COBALT 67-03 M14-65087
THE EQUILIBRIUM DIAGRAM OF THE SYSTEM NIOBIUM-NICKEL 67-03 M14-65125
THE TERNARY CONDENSED PHASE DIAGRAM OF THE GA-AS-TE SYSTEM 67-03 M14-65428
PHASE THEORY. PT. 3 67-03 M14-65484
PARTICULARS OF AUSTENITIC STEELS WITH HIGH MANGANESE CONTENTS. PT. 1 67-04 M01-68126
THERMODYNAMIC BASIS OF THE GRAPHITIZATION OF GRAY CAST IRON. PT. 1 67-04 M06-66098
THE BINARY SYSTEMS SR-IN AND BA-IN 67-04 M13-66159
TH-THC PHASE DIAGRAM 67-04 M13-66274
PHASE DIAGRAMS OF SYSTEMS OF HYDROGEN WITH TITANIUM, ZIRCONIUM, VANADIUM AND NIOBIUM 67-04 M13-66824
EQUILIBRIUM OF METAL AND OXIDE SOLIDS IN THE FE-NI-O SYSTEM 67-04 M13-66968
STRUCTURE OF ALLOYS IN THE ZR-C-NB SYSTEM 67-04 M13-67097
PHASE EQUILIBRIA IN THE NB-SN SYSTEM 67-04 M13-67266
PRACTICE OF THERMODYNAMIC ANALYSIS OF BINARY SYSTEMS OF METALS WITH INTERMETALLIC BONDS 67-04 M13-67451
STUDY OF PHASE DIAGRAMS IN BINARY SYSTEMS BASED ON ISOACTIVITIES 67-04 M13-67849
CHROMIUM BORON CARBIDE 67-04 M13-67865
STUDY OF THE MG2SN-MG2SI SYSTEM 67-04 M13-67939
METALLOGRAPHIC STUDY OF WHITE METALS 67-04 M13-68035
THE CONSTITUTION OF SN-TL ALLOYS 67-04 M13-68125
THE RHODIUM/SELENIUM SYSTEM 67-04 M13-68150
FORMATION AND GROWTH OF INTERMETALLIC COMPOUNDS IN THE CU-ZN SYSTEM 67-04 M14-66014
THE STRUCTURE OF THE ZRCR2-TACR2 SYSTEM 67-04 M14-66165
THE URANIUM-CARBON-OXYGEN TERNARY DIAGRAM 67-04 M14-66916
THE ZRC-MO PHASE DIAGRAM 67-04 M14-67236
PHASE EQUILIBRIA IN THE SYSTEM CAO-YB2O3 67-04 M14-67324
THE MAURER DIAGRAM, ITS ERRORS AND ITS EVOLUTION 67-04 M14-67707
PHASE DIAGRAM OF THE NIOBIUM-GALLIUM SYSTEM 67-05 M13-68203
INVESTIGATION OF THE GA-SE PHASE DIAGRAM 67-05 M13-68206
THE CADMIUM-SELENIUM SYSTEM 67-05 M13-68207
SOLID-PHASE EQUILIBRIA OF WUSTITE-IRON NICKEL ALLOY 67-05 M13-68227
ON THE FUSIBILITY DIAGRAM OF THE TIN-SELENIUM SYSTEM 67-05 M13-68404
CALCULATION OF SOLIDUS CURVES IN BINARY SYSTEMS OF GERMANIUM, SILICON AND ON THE A3B5-METAL SECTIONS 67-05 M13-68405
PHASE DIAGRAM OF THE NIOBIUM-TIN SYSTEM 67-05 M13-68450
PHASE DIAGRAM OF BISMUTH AT LOW TEMPERATURES 67-05 M13-68572
ON THE EQUILIBRIUM DIAGRAM OF AL-NI-TI TERNARY SYSTEM 67-05 M13-68870
MISCIBILITY OF METALS WITH SALTS. PT. 7. THE POTASSIUM-POTASSIUM SULFIDE SYSTEM 67-05 M13-69031
FE-AL INCLUSIONS IN ZINC ALLOY PRESSURE CASTINGS 67-05 M13-69109
PHASE DIAGRAM OF THE MN-SI SYSTEM IN THE REGION OF HIGHER MANGANESE SILICIDE 67-05 M13-69230
INVESTIGATION OF BISMUTH ALLOYS WITH BARIUM AND BISMUTH ALLOYS WITH STRONTIUM 67-05 M13-69239
PHASE DIAGRAM OF THE MOLYBDENUM-GADOLINIUM SYSTEM 67-05 M13-69249
INTERMEDIATE PHASES IN TITANIUM ALLOYS WITH IRIDIUM AND RHODIUM 67-05 M13-69277
PHASE DIAGRAM OF THE NB-TI-ZR SYSTEM AND SUPERCONDUCTING PROPERTIES OF THE ALLOYS OF THIS SYSTEM 67-05 M13-69640
THE CONSTITUTION OF THE NB-ZN-O SYSTEM AT 1800 F 67-05 M13-69842
THE TERNARY EQUILIBRIUM SYSTEM CU-MN-AL 67-05 M13-69851
HIGH-TEMPERATURE CONDENSED-PHASE EQUILIBRIA IN THE SYSTEM TI-W-O 67-05 M14-68216
SPHEROID FLOTATION IN CAST IRON WITH SPHEROIDAL GRAPHITE 67-05 M14-68519
INVESTIGATION OF THE CE-SI-GE SYSTEM 67-05 M14-68646
THE CONSTITUTION OF ALUMINIUM-CADMIUM-TIN ALLOYS 67-05 M14-68720
STUDY OF ISOTHERMAL TRANSFORMATIONS IN SEMI-FERRITIC STAINLESS STEELS WITH 17 PER CENT CHROMIUM 67-05 M14-69114
TRANSFORMATIONS OF INTERMETALLIC PHASES OF THE ANTIMONY-ZINC SYSTEMS 67-05 M14-69133
USE OF PHASE DIAGRAMS OF BINARY SYSTEMS TO CALCULATE THE HEAT OF FUSION OF THE SOLVENT 67-05 M15-69110
A STUDY OF THE IRON-RICH PORTION OF THE FE-U PHASE DIAGRAM 67-06 M13-69906
CRSI2-MOSI2 DIAGRAM 67-06 M13-70170
INTERACTION OF TANTALUM WITH NBRU COMPOUNDS 67-06 M13-70183
INTERACTION BETWEEN THE NBRU AND TARU COMPOUNDS 67-06 M13-70185
PHASE EQUILIBRIA IN CR-CO-B, MN-FE-B AND MN-CO-B SYSTEMS 67-06 M13-70215
INVESTIGATIONS OF THE SYSTEMS --MO, W-----FE, CO, NI---B 67-06 M13-70219
THE CO REGION OF THE TERNARY SYSTEM CO-MO-B 67-06 M13-70220
STUDY OF THE PHASE DIAGRAM OF THE NICKEL BORON SYSTEM 67-06 M13-70369
PHASE DIAGRAM OF ALLOYS OF THE COPPER-GERMANIUM-TIN TERNARY SYSTEM 67-06 M13-70375
STUDY OF A PBSE-PBI2 SECTION OF THE PB-SE-I TERNARY SYSTEM 67-06 M13-70744
THE ALUMINIUM-RICH PARTS OF THE ALUMINIUM-SAMARIUM AND ALUMINIUM-DYSPROSIUM SYSTEMS

67-06 M13-71059
STUDY OF THE QUATERNARY SYSTEM IN-SB-CD-SN TO DETERMINE THE PHASE EQUILIBRIA IN THE SECTION OF INSB --CDSNSB2--
67-06 M13-71119
PHASE DIAGRAM OF THE NI-B SYSTEM
67-06 M13-71462
STRUCTURE OF AUSTENITIC MN-AL WELD METAL
67-06 M13-72302
PHASE DIAGRAMS OF THE TH-PR AND TH-ND SYSTEMS
67-06 M14-69991
W-CR-C TERNARY SYSTEM
67-06 M14-69993
INVESTIGATION OF THE TRANSFORMATION BEHAVIOR OF IRON-MANGANESE ALLOYS BY DAMPING MEASUREMENTS IN THE REGION OF 1 CYCLE/SEC
67-06 M14-70259
EQUILIBRIUM DIAGRAM OF THE IRON-MOLYBDENUM SYSTEM
67-06 M14-70810
TITANIUM-CHROMIUM-VANADIUM SYSTEM
67-06 M14-71079
PHASE STUDIES IN THE PSEUDOBINARY SYSTEM UN-UP
67-06 M14-71161
PHASE-RELATIONS IN COPPER-CADMIUM-ZINC-ALLOYS
67-06 M14-71859
COMMENT ON THE BOUNDARY OF THE TRANSFORMATION BA --BODY-CENTERED-- BA --COMPACT HEXAGONAL--
67-06 M14-72013
GERMANIUM TELLURIDE PHASE TRANSFORMATION UNDER HIGH PRESSURE
67-06 M14-72034
CONTRIBUTION TO THE MN-O PHASE DIAGRAM AT HIGH TEMPERATURE
67-06 M14-72166
LIQUID-VAPOR PHASE DIAGRAM AND THERMODYNAMICS OF THE SODIUM-BISMUTH SYSTEM
67-06 M14-72196
CHEMISTRY OF METALS OF TUNGSTEN
67-06 M15-70163
THERMODYNAMIC PROPERTIES OF URANIUM CARBIDES
67-06 M15-70888
THE EFFECT OF SUBLATTICE ORDER IN BINARY ALLOYS WITH ONE MAGNETIC COMPONENT. PT. 3
67-06 M15-71286
P-T-X PHASE DIAGRAM OF THE LEAD TELLURIDE SYSTEM
67-06 M15-72046
CONSTITUTIONAL SUPERCOOLING IN TIN-BASE TERNARY ALLOYS
67-07 M13-72818
PHASE DIAGRAM OF THE SYSTEM TITANIUM-COPPER
67-07 M13-73279
CRYSTALLINE STRUCTURES OF COMPOUNDS ZR2NI21B6 AND ZR2CO21B6
67-07 M13-73481
BERYLLIUM-RICH END OF FIVE BINARY SYSTEMS
67-07 M13-73742
THE SYSTEM UO2-EU2O3 AT HIGH TEMPERATURES
67-07 M13-74233
PHASE EQUILIBRIUM IN THE SYSTEM PBO-TIO2-ZRO2
67-07 M14-72825
PHASE RELATIONS IN THE SYSTEM FEO-FE2O3-ZRO2-SIO2
67-07 M14-72826
SOLID SOLUTION OF BORON IN GRAPHITE
67-07 M14-72827
THE SYSTEM MNSE-MNS
67-07 M14-72830
LIQUIDUS IN THE ALUMINA-RICH SYSTEM LA2O3-AL2O3
67-07 M14-72832
METALLOCHEMISTRY OF MAGNIDES
67-07 M14-73273
INVESTIGATIONS OF THE EFFECT OF SILICON OXIDE AND OF THE OXIDATION DEGREE ON THE PHASE BOUNDARIES, IN PARTICULAR OF THE MISCIBILITY GAP, IN THE SYSTEM CAO-P2O5-FEO-FE2O3-SIO2 AT 1600 C
67-07 M14-73282
THE CONSTITUTIONAL DIAGRAM OF THE SYSTEM CAO-FEON-P2O5-SIO2 AT 1600 C
67-07 M14-73283
TERNARY CONDENSED PHASE SYSTEMS OF GALLIUM AND ARSENIC WITH GROUP IB ELEMENTS
67-07 M14-73460
PHASE RELATIONS AND THERMOELECTRIC PROPERTIES OF THE ALLOY SYSTEMS, SNTE-BI2TE3 AND PBTE-SB2TE3
67-07 M14-73462
SOLID-STATE EQUILIBRIA IN THE IRON-NICKEL SYSTEM
67-07 M14-73567
METALLURGY AND MAGNETIC PROPERTIES CONTROL IN PERMALLOY
67-07 M15-73538
THE DECOMPOSITION OF TUNGSTEN-CHROMIUM SOLID SOLUTION
67-07 M15-73905
ALUMINUM. V. 1. PROPERTIES, PHYSICAL METALLURGY AND PHASE DIAGRAMS. V. 2. DESIGN AND APPLICATIONS. V. 3. FABRICATION AND FINISHING
67-08 M01-74801
THE STRUCTURE OF THE COPPER-NICKEL-OXYGEN SYSTEM AND ITS EFFECT ON THE BEHAVIOR OF NICKEL IN DRY COPPER REFINING
67-08 M03-75693
MODE OF SOLIDIFICATION OF COPPER BASE CASTING ALLOYS. PT. 2
67-08 M06-75034
USE OF PROTECTIVE AND REACTION GASES IN THE HEAT TREATMENT OF COLD FORMED STEEL BLANKS
67-08 M10-75510
TERNARY SYSTEMS NIOBIUM-RHENIUM-CARBON AND TANTALUM-RHENIUM-CARBON
67-08 M13-74309
CONSTITUTION OF ALLOYS
67-08 M13-74803
PHASE DIAGRAMS
67-08 M13-74812
THE TITANIUM-RICH CORNER OF THE TERNARY TI-AL-CO SYSTEM
67-08 M13-75139
THE CONSTITUTION OF NB-CO ALLOYS
67-08 M13-75293
TUNGSTEN-COBALT SYSTEM FOR COMPOSITIONS TO 85 ATOMIC PER CENT COBALT
67-08 M13-75309
PHASE DIAGRAM OF THE W-B SYSTEM
67-08 M13-75434
TERNARY SYSTEMS OF TI-ZR-C AND TI-HF-C
67-08 M13-75435
THE W-V-SI SYSTEM
67-08 M13-75436
RESEARCH INTO ZR-C SYSTEM ALLOYS
67-08 M13-75462
THE ALPHA-GAMMA EQUILIBRIUM IN FE-MN, FE-MO, FE-NI, FE-SB, FE-SN AND FE-W SYSTEMS
67-08 M13-75813
STUDY OF THE NI3AL-NI3TI SYSTEM
67-08 M13-75890
PHASE DIAGRAM OF THE ALUMINUM-RICH PORTION OF AL-MN-LI
67-08 M13-75892
FUSIBILITY DIAGRAM OF THE TI-ZR-CR SYSTEM
67-08 M13-75895
SOLID SOLUTIONS IN THE ZR-NB-HF SYSTEM
67-08 M13-75896
STUDY OF A PORTION OF THE TI-AL-CR-FE-SI-B SYSTEM
67-08 M13-75897
STRUCTURE OF SOME ALLOYS OF THE SYSTEM TITANIUM-VANADIUM-CARBON
67-08 M13-75954
PHASE DIAGRAM OF THE SYSTEM CHROMIUM-GERMANIUM
67-08 M13-75958
TERNARY INTERMETALLIC COMPOUNDS IN THE SYSTEM NI-TI-NB
67-08 M13-75959
INTERMETALLIC COMPOUNDS OF RARE-EARTH METALS WITH ALUMINUM AND SOME OF THEIR PROPERTIES
67-08 M13-75961
PHASE COMPOSITION AND SOME PROPERTIES OF ALLOYS OF THE SYSTEM MOLYBDENUM-NICKEL-BORON
67-08 M13-75962
THE YTTRIUM-LEAD ALLOY SYSTEM
67-08 M13-75966
THE TIN-IRON SYSTEM. PT. 1. THE PHASE DIAGRAM LIQUIDUS BOUNDARIES
67-08 M13-76062
PHASE RELATIONS IN THE URANIUM MONOCARBIDE REGION OF THE SYSTEM URANIUM-CARBON-OXYGEN AT 1700C
67-08 M13-76079
GOLD SILICON PHASE DIAGRAM
67-08 M13-76083
THE SYSTEM KA1SIO4-MG2SIO4-KA1SI2O6
67-08 M13-76091
CONDENSED PHASE RELATIONS IN THE SYSTEMS ZRO2-WO2-WO3 AND HFO2-WO2-WO3
67-08 M13-76093
STUDY OF THE LIQUIDUS TEMPERATURES OF THE SYSTEM CAO-P2O-SIO2-IRON OXIDE. PT. 1. 15 PER CENT FEO LEVEL
67-08 M13-76225
STUDY OF THE A1SB-GASB-INSB SYSTEM
67-08 M14-75080
THE REACTIVITY OF LIQUID METALS
67-08 M14-75555
ALLOYING BEHAVIOR OF SILVER AND ITS PRINCIPAL BINARY ALLOYS
67-08 M14-75625
TERNARY AND HIGHER-ORDER ALLOYS OF SILVER
67-08 M14-75626
OXYGEN IN SILVER
67-08 M14-75627
TERNARY CARBIDE EUTECTIC IN FE-C-SI ALLOYS
67-08 M14-75893
THE POSITION OF LEDEBURITE THALWEG IN THE FE-C-SI SYSTEM
67-08 M14-75894
SOME PROPERTIES OF COPPER-RICH COPPER-HAFNIUM ALLOYS
67-08 M17-75754
PROPERTIES OF ALLOYS BASED ON THE ALUMINIDE TI3AL
67-08 M17-75956
DETERMINATION OF THE COSOLUBILITY LIMIT OF NEODYMIUM AND NICKEL IN SOLID MAGNESIUM
67-09 M13-76842
PHASE DIAGRAM AND PROPERTIES OF ALLOYS IN THE TI2TE3-SB2TE3 SYSTEM
67-09 M13-76848
INVESTIGATION OF THE BI2S3-SB2SE3 SYSTEM
67-09 M13-76850
ON THE TIN-SULFUR FUSIBILITY CURVE
67-09 M13-76853
THE SYSTEM TICR2-TACR2-NBCR2
67-09 M13-76928
THE VANADIUM-CARBON SYSTEM
67-09 M13-76939
THE LITHIUM-GERMANIUM SYSTEM
67-09 M13-76940
PHASE DIAGRAM OF THE NEODYMIUM-TELLURIDE SYSTEM, AND THE PROPERTIES OF THE PHASES

67-09 M13-76941
INTERACTION BETWEEN THE METALLIDE TICR2 AND VANADIUM 67-09 M13-76942
INTERACTION BETWEEN THE METALLIDE TICR2 AND MOLYBDENUM 67-09 M13-76943
THE METASTABLE EQUILIBRIUM DIAGRAM OF THE FE-C-SI SYSTEM 67-09 M13-76944
RESEARCH INTO CERTAIN PROPERTIES OF W2B-WC SYSTEM ALLOYS 67-09 M13-76955
INVESTIGATION OF TRANSFORMATIONS IN THE SOLID STATE IN ALLOYS OF THE CHROMIUM-MANGANESE SYSTEM 67-09 M13-76964
STUDY OF PHASE EQUILIBRIUM IN A PORTION OF THE TI-AL-CR-FE-SI-B SYSTEM 67-09 M13-77298
CRYSTAL STRUCTURE-GROUP NUMBER CORRELATION IN THE FIFTH- AND SIXTH-PERIOD LATTICE TRANSITION METALS AND ALLOYS 67-09 M13-77723
THE MOLYBDENUM-IRON-SILICON SYSTEM 67-09 M13-77758
PHASE DIAGRAM OF THE PEUDO-BINARY SYSTEM AG2TE-IN2TE3 AND SEMICONDUCTING PROPERTIES OF AGIN9TE14 67-09 M13-77899
THE SYSTEM PLATINUM-GERMANIUM 67-09 M13-78137
STUDIES OF THE BINARY SYSTEMS PLUTONIUM-GOLD PLUTONIUM-GALLIUM AND PLUTONIUM-INDIUM 67-09 M14-76321
PHASE DIAGRAMS OF PLUTONIUM WITH THE METALS OF GROUPS IIA, IVA, VIIIA AND IB 67-09 M14-76326
PRESSURE-TEMPERATURE PHASE DIAGRAM OF URANIUM METAL 67-09 M14-78219
METALS REFERENCE BOOK. V. 2 67-10 M01-79103
THERMODYNAMIC DISTRIBUTION OF ELEMENTS WHEN KILLING IRON WITH SILICON 67-10 M04-79315
EFFECTS OF CARBON CONTENT ON THE PROPERTIES OF TUNGSTEN CARBIDE-TANTALUM CARBIDE-10 PER CENT COBALT CEMENTED CARBIDE 67-10 M09-79978
INTERACTION OF CONTROLLED ATMOSPHERES WITH METALS 67-10 M10-79216
CONSTITUTION, TTT CHARACTERISTICS AND HARDENABILITY OF A 0.3 PER CENT STEEL WITH AL ADDITIONS UP TO 2.45 PER CENT 67-10 M13-78334
THE IRON-TANTALUM SYSTEM 67-10 M13-78336
A CLARIFICATION OF THE PHASES OCCURRING IN ALUMINIUM-RICH ALUMINIUM-IRON-SILICON ALLOYS, WITH PARTICULAR REFERENCE TO THE TERNARY PHASE ALPHA-ALFESI 67-10 M13-78450
THE TERNARY SYSTEM NI-V-B 67-10 M13-79072
THE PHASE EQUILIBRIA IN THE TERNARY SYSTEMS ZIRCONIUM-VANADIUM-BORON, ZIRCONIUM-NIOBIUM-BORON AND ZIRCONIUM-MANGANESE-BORON 67-10 M13-79346
THE FE-C DIAGRAM--INFLUENCE OF SI AND P 67-10 M13-79691
NEUTRON DIFFRACTION ANALYSIS OF FE-CO ATOMIC FERROMAGNETIC SUPERLATTICES 67-10 M13-79916
THE PHASE DIAGRAM OF A TERNARY SYSTEM OF COPPER-GERMANIUM-TIN ALLOYS 67-10 M13-80027
THE EQUILIBRIUM DIAGRAM OF THE FE-GA BINARY SYSTEM 67-10 M13-80028
SOLID STATE DIFFUSION IN FE-ZN 67-10 M14-78400
STRUCTURAL STUDY OF NIOBIUM-IRON ALLOYS 67-10 M14-78481
THE KINETICS OF REVERSION OF SPHERICAL GUINIER-PRESTON ZONES 67-10 M14-78755
PHASE DIAGRAM OF THE UC-W SYSTEM AND DIFFUSION OF URANIUM FROM URANIUM CARBIDE INTO TUNGSTEN 67-10 M14-79636
ELECTRICAL RESISTIVITY AND PHASE RELATIONS FOR THE THORIUM-CARBON SYSTEM 67-10 M15-79596
STRUCTURE OF SEMICONDUCTING COMPOUNDS OF ARSENIC AND ANTIMONY WITH GROUP-8 ELEMENTS 67-11 M13-80177
SIGNIFICANCE OF THE DISTRIBUTION COEFFICIENT IN THE REFINING OF IRON 67-11 M13-80212
THE EXISTENCE OF VARIOUS PHASES IN THE QUASI-BINARY SYSTEM, BI2SE3-BI2S3 67-11 M13-80400
THE LATTICE STABILITY OF THE TRANSITION METALS 67-11 M13-81107
DISTRIBUTION OF OXYGEN AND ALUMINUM BETWEEN METALLIC AND OXIDE PHASES IN THE CO-O-AL AND NI-O-AL SYSTEMS 67-11 M13-81154
STUDY OF THE EQUILIBRIUM DIAGRAM OF THE TINI-TIFE SYSTEM 67-11 M13-81172
X-RAY DIFFRACTION ANALYSIS OF THE CE-MG-AL SYSTEM IN THE 0-33.3 AT . PER CENT CE RANGE 67-11 M13-81173
STUDY OF THE W-TA-RE SYSTEM BY THE DIFFUSION LAYER METHOD 67-11 M13-81174
THE CONSTITUTION OF BINARY MOLYBDENUM-CARBON ALLOYS 67-11 M13-81352
THE STRUCTURE OF AUSTENITIC MANGANESE.. ALUMINIUM WELD METAL 67-11 M13-81574
THE PHASE DIAGRAM AND PHASE TRANSITION OF THE V2O3-V2O5 SYSTEM 67-11 M13-81688
CONNECTION BETWEEN THE SHAPE OF THE PHASE DIAGRAM AND THAT OF THE SURFACE TENSION AND ADSORPTION ISOTHERMS IN BINARY SYSTEMS OF METALS AND SEMICONDUCTORS 67-11 M14-80165
PHASE RELATIONS AND INTERMETALLIC COMPOUNDS IN THE LANTHANUM-COBALT SYSTEM 67-11 M14-80306
TRANSFORMATIONS IN HEAT RESISTANT STEELS, AN ATTEMPT AT AN EQUILIBRIUM REPRESENTATION IN THE CARBIDE PHASES 67-11 M14-80334
APPLICATION OF CHEMICAL ACTIVITY IN METALLURGY 67-11 M14-80803
POSSIBLE RELATIONSHIP BETWEEN PHASE-DIAGRAM AND SOME VACANCY CHARACTERISTICS IN BINARY ALLOYS 67-11 M14-81260
SOLID HYDRIDES 67-11 M16-80469
EQUILIBRIUM BETWEEN IRON MELTS AND SLAGS OF THE SYSTEM FEON-CAO-P2O5-MGO AT 1600 C 67-12 M04-83393
THE EUROPIUM-LEAD SYSTEM 67-12 M13-81827
ZIRCONIUM-TANTALUM-CHROMIUM-SYSTEM 67-12 M13-82048
A CONTRIBUTION TO THE CHROMIUM-CARBON-NITROGEN SYSTEM 67-12 M13-82053
THE PHASE TRANSFORMATIONS OF CHROMIUM-PALLADIUM ALLOYS IN SOLID STATE 67-12 M13-82055
PHASE EQUILIBRIA AND DISTRIBUTION OF THE ELEMENTS IN THE FE-O-AL SYSTEM 67-12 M13-82108
CONSTITUTION DIAGRAM OF THE MG-ND-NI SYSTEM IN THE MAGNESIUM-RICH RANGE 67-12 M13-82121
PHASE EQUILIBRIUM IN THE TI-CO-AL SYSTEM 67-12 M13-82123
THE TERNARY CR-FE-SI SYSTEM 67-12 M13-82124
THE MOO3-CUO SYSTEM 67-12 M13-82139
CONSTITUTION DIAGRAM OF THE NIOBIUM-ANTIMONY SYSTEM 67-12 M13-82167
PHASE DIAGRAM OF THE SYSTEM MNO-AL2O3 AND THE THERMODYNAMIC PROPERTIES OF MNAL2O4 67-12 M13-82407
PHASE EQUILIBRIA IN THE TI-CO-SI SYSTEM 67-12 M13-82423
INFLUENCE OF NIOBIUM ON THE SOLID STATE TRANSFORMATIONS IN VANADIUM-TANTALUM ALLOYS 67-12 M13-82424
STUDY OF THE CORRELATION BETWEEN THE LIQUIDUS OF EQUILIBRIUM DIAGRAMS OF PHASES OF BINARY METALLIC SYSTEMS AND THE THERMOCHEMICAL DATA CONCERNING THE LIQUID STATE 67-12 M13-82472
THE TITANIUM-NICKEL-SILICON SYSTEM 67-12 M13-82492
THE STRUCTURE OF SEMICONDUCTOR AG2TE-GA2TE3 ALLOYS 67-12 M13-82493
EQUILIBRIUM DIAGRAM AT 60 C. OF THE FE2O3-AS2O5-H2O SYSTEM AND A RADIOCRYSTALLOGRAPHIC STUDY OF THE ARSENATES, FE2O3-3AS2O5-8H2O AND AL2O3-3AS2O5-8H2O 67-12 M13-82512
SLAG-METAL EQUILIBRIA IN THE PB-PBO-SB2O3 SYSTEM 67-12 M13-82565
PHASE RELATIONS AND THERMODYNAMIC PROPERTIES FOR THE SAMARIUM-ZINC SYSTEM 67-12 M13-82577
STUDY OF THE URANIUM-HYDROGEN SYSTEM AT ELEVATED PRESSURES 67-12 M13-82597
STUDY OF THE LIQUIDUS RELATIONS IN EQUILIBRIUM DIAGRAMS FOR PHASES WITH A DEFINITE COMPOSITION APPLICATION TO THE ESTIMATION OF THE LATENT HEAT OF FUSION 67-12 M13-82697
CALCULATED MODEL FOR NAF-ALF3 SYSTEM 67-12 M13-82732
PHASE DIAGRAM OF THE SYSTEM NICKEL-BORON 67-12 M13-82783
STRUCTURAL DIAGRAMS AND PHASE REACTIONS OF FE-CR-N TERNARY SYSTEM 67-12 M13-82826
YTTERBIUM-LEAD SYSTEM 67-12 M13-82851
THE PLUTONIUM-LANTHANUM SYSTEM 67-12 M13-82868
CONSTITUTION OF A PORTION OF THE NIOBIUM -- COLUMBIUM---NITROGEN SYSTEM 67-12 M13-82960
THE URANIUM-PLUTONIUM-OXYGEN TERNARY PHASE DIAGRAM 67-12 M13-82998
THERMODYNAMIC STUDY OF THE MERCURY-TIN SYSTEM 67-12 M13-83104
X-RAY EXAMINATION OF THE TA-CO SYSTEM 67-12 M13-83143
DETERMINATION OF THE THERMODYNAMIC PROPERTIES AND THE EQUILIBRIUM PHASE DIAGRAM OF THE AU-AL SYSTEM

67-12 M13-83199
ON THE BISMUTH-ANTIMONY SYSTEM 67-12 M13-83321
STUDY OF THE SB2SE3-BI2FE3, SB2TE3-BI2SE3 SYSTEMS 67-12 M13-83323
INVESTIGATION OF THE PBSE-GESE AND GESE-GETE SYSTEMS 67-12 M13-83352
ISOTHERMAL SECTIONS AT 600 AND 750 C. OF THE PHASE DIAGRAM OF THE MOLYBDENUM-TITANIUM-ZIRCONIUM SYSTEM 67-12 M13-83353
STUDY OF THE MG2SN-MG2GE SYSTEM 67-12 M13-83354
PHASE DIAGRAM OF THE VANADIUM-GALLIUM SYSTEM 67-12 M13-83355
STUDY OF BISMUTH-TIN ALLOYS IN THE SOLID AND LIQUID STATES IN RELATION TO THE PHASE DIAGRAM 67-12 M13-83360
LAWS FOR THE HIGH-TEMPERATURE STRENGTH OF TITANIUM ALLOYS., DIAGRAMS SHOWING VARIATION OF HIGH-TEMPERATURE STRENGTH WITH COMPOSITION 67-12 M13-83369
STUDY OF THE NIOBIUM-ZIRCONIUM-HAFNIUM-CARBON SYSTEM 67-12 M13-83407
PHASE DIAGRAM OF THE ALLOY SYSTEM HGTE-CDTE 67-12 M14-82002
FORCE CONSTANTS OF INTERATOMIC BONDS IN METALLIC SOLID SOLUTIONS 67-12 M14-82047
ANALYSIS OF THE THERMODYNAMIC PROPERTIES OF SOLID LEAD-BISMUTH-ALLOYS 67-12 M14-82051
HYDROGEN SOLUBILITY IN ALPHA TI-O ALLOYS 67-12 M14-82747
REACTION DIFFUSION AND KIRKENDALL-EFFECT IN THE NICKEL-ALUMINUM SYSTEM 67-12 M14-82757
ELECTRICAL RESISTANCE AND THERMAL EXPANSION OF TI-NB-CR ALLOYS 67-12 M15-82422
THERMODYNAMIC PROPERTIES OF THE CALCIUM-ZINC SYSTEM 67-12 M15-82575
THERMODYNAMIC PROPERTIES AND EQUILIBRIUM PHASE DIAGRAMS IN THE AL-PB AND AL-CD SYSTEMS 67-12 M15-82595
A RESISTOMETRIC STUDY OF PHASE EQUILIBRIA AT LOW TEMPERATURES IN THE VANADIUM-HYDROGEN SYSTEM 67-12 M15-82752

PHASE DIAGRAMS, ALLOYING EFFECTS
THE EFFECT OF ALLOYING ADDITIONS ON THE EQUILIBRIUM OF HIGH-CU CU-TI ALLOYS 67-05 M13-68513
SOLUBILITY RELATIONSHIPS IN MAGNESIUM-MANGANESE-ZIRCONIUM ALLOYS 67-05 M14-69567
THE EFFECT OF VARIOUS ALLOYING ELEMENTS ON THE EXTENT OF THE GAMMA REGION IN THE FE-CR-C SYSTEM. PT. 1. THE FE-CR-C-MO SYSTEM 67-09 M13-77848
INFLUENCE OF COPPER AND NICKEL ON THE STABLE AND METASTABLE EUTECTIC TEMPERATURES OF CAST IRON 67-09 M14-77837
EVOLUTION OF THE ANTIPHASE STRUCTURE OF IRON-ALUMINUM ALLOYS AS A FUNCTION OF THEIR ALUMINUM CONTENT 67-12 M13-82447

PHASE DIAGRAMS, PRESSURE EFFECTS
THE INFLUENCE OF PRESSURE ON THE STABILIZATION OF THE DELTA PHASE OF PLUTONIUM BY GALLIUM 67-09 M14-76309

PHASE DIFFERENCE
SEE PHASE SHIFT

PHASE SHIFT
PSEUDOATOM PHASE SHIFTS FOR MONOVALENT METALS AND ALLOYS. PT. 1. ELECTRICAL RESISTIVITIES AND THERMOELECTRIC POWERS OF THE MONOVALENT LIQUID METALS 67-11 M16-81478
PSEUDOATOM PHASE SHIFTS FOR MONOVALENT METALS AND ALLOYS. PT. 2. MONOVALENT IMPURITY RESISTIVITIES IN MONOVALENT METALS 67-11 M16-81479

PHASE STABILITY
THE THEORY OF THE STABILITY OF THE SOLID-LIQUID INTERFACE UNDER CONSTITUTIONAL SUPERCOOLING. PT. 1 67-01 M14-57570
INVESTIGATION OF PHASE EQUILIBRIA IN ALUMINUM-RICH ALLOYS OF THE GE-AL-SB SYSTEM 67-01 M14-57653
NEW PHASE IN THE MERCURY-INDIUM SYSTEM 67-01 M14-58534
THE LOWER OXIDES OF NIOBIUM 67-01 M14-58535
ON AN AMORPHOUS AU-CO ALLOY FILM 67-02 M13-59074
INDIVIDUAL PROPERTIES OF THE MELTS OF CARBURIZING STEELS 67-02 M14-61972
LEVIATION MELTING APPARATUS FOR PHASE EQUILIBRIA STUDIES 67-03 M10-65985
PHASE EQUILIBRIA IN THE NB-SN SYSTEM 67-04 M13-67266
NEW HIGH PRESSURE PHASES HAVING THE CORUNDUM STRUCTURE 67-04 M13-67364
HIGH TEMPERATURE PHASE-EQUILIBRIA IN THE TH-U-C SYSTEM IN THE PRESENCE OF FREE CARBON 67-04 M14-66240
DISSOLUTION OF THE PHASES IN THE NICKEL-GOLD SYSTEM DURING ISOTHERMAL ANNEALING 67-04 M14-66391
CONTRIBUTION TO THE CR-C-N SYSTEM 67-04 M14-66915
A THERMAL STABILIZATION OF AUSTENITE 67-04 M14-66929
STUDY OF THE EQUILIBRIUM OF FOUR SOLID PHASES IN THE TERNARY SYSTEM U-C-SI 67-04 M14-67454
TRANSFORMATION OF WUSTITE 67-05 M04-69480
THE PHASE EQUILIBRIA AND CRYSTAL CHEMISTRY OF THE INTERMEDIATE PHASES IN THE YTTERBIUM-ANTIMONY SYSTEM 67-05 M14-68766
METASTABILITY OF STRUCTURAL FORMS OF COPPER-PLATINUM ALLOYS NEAR THE STOICHIOMETRIC COMPOSITION CU3PT 67-05 M14-69226
ORDERING AND MAGNETIC TRANSFORMATION IN AN FE-AL ALLOY 67-05 M14-69641
HIGH-TEMPERATURE CHEMICAL STABILITY 67-05 M15-68996
PHASE EQUILIBRIUM AND THE MECHANISM OF REDUCING SOLID SOLUTIONS IN THE SPINEL REGION OF THE MG-AL-CR-FE-O SYSTEM 67-06 M14-69975
PHYSICOCHEMICAL STUDY OF ALLOYS OF THE NIOBIUM-TUNGSTEN-MOLYBDENUM CHROMIUM SYSTEM 67-06 M14-70164
CONSTITUTION OF BINARY ALLOYS OF GADOLINIUM, DYSPROSIUM, HOLMIUM AND ERBIUM WITH MANGANESE 67-06 M14-71861
PHASE EQUILIBRIA IN THE CD-SE SYSTEM 67-06 M14-72174
LIQUID-VAPOR PHASE DIAGRAM AND THERMODYNAMICS OF THE SODIUM-BISMUTH SYSTEM 67-06 M14-72196
NUMERICAL DETERMINATION OF PHASE COMPOSITION IN MULTI-ELEMENT SYSTEMS, FOR EXAMPLE U-C-CR SYSTEM 67-07 M13-74236
STABILITY OF AUSTENITE IN STAINLESS STEEL AND ITS SUSCEPTIBILITY TO CORROSION CRACKING 67-07 M18-74195
PHASE STABILITY AND STACKING FAULTS IN CERIUM ALLOYS 67-08 M14-75124
STOICHIOMETRY OF PRASEODYMIUM OXIDES 67-09 M13-78016
THE STABILITY OF THE AUSTENITE IN CHROMIUM-NICKEL STAINLESS STEELS AND THEIR PROPERTIES AT LOW TEMPERATURES 67-09 M14-76957
INDIVIDUAL CHARACTERISTICS OF MELTS OF CARBURIZED STEELS 67-10 M14-78829
A DILATOMETRIC STUDY OF STRUCTURAL EVOLUTION OF MARAGING STEEL CONTAINING 18 PER CENT NI DURING TEMPERING 67-10 M14-79894
INFLUENCE OF ENTROPY IN PHASE STABILIZATION 67-11 M14-81103
PURE METALS AND SOLID SOLUTIONS 67-11 M14-81111
ELECTRON CONCENTRATION AND PHASE STABILITY IN LAVES PHASES AND NI-AL ALLOYS 67-11 M14-81112
APPLICATION OF A THEORY OF PHASE FLUCTUATIONS INSPIRED BY THE BARTENEV THEORY TO THE CRITICAL TRANSFORMATION AUCU3 1 TO AUCU3 ALPHA 67-11 M14-81564
REPORT ON THE DETERMINATION OF THE FERMI SURFACE OF ORDERED BETA PRIME PHASES 67-11 M15-81113
FACTORS AFFECTING THE STABILITY OF METALLIC PHASES 67-11 M16-81102
SPACE LIMITATIONS ON THE GEOMETRY OF THE CRYSTAL STRUCTURES OF METALS AND INTERMETALLIC COMPOUNDS 67-11 M16-81106
OXYCARBIDES OF LANTHANIDES 67-12 M13-82448

PHASE STABILITY, IMPURITY EFFECTS
EFFECTS OF TRACE IMPURITIES ON X-RAY DIFFRACTION 67-11 M13-80135

PHASE STABILITY, PRESSURE EFFECTS
THE EFFECTS OF HIGH PRESSURE ON THE PHASE EQUILIBRIA OF SOME PLUTONIUM ALLOYS 67-04 M14-67466

PHASE STABILITY, TEMPERATURE EFFECTS
THERMAL STABILIZATION OF AUSTENITE IN IRON-NICKEL-CARBON ALLOYS 67-11 M14-81598

PHASE STRUCTURE
SEE SOLID PHASES

PHASE TRANSFORMATIONS
PHASE TRANSFORMATION IN WELDED JOINTS OF VT15 ALLOY 67-01 M11-58204
STRUCTURE OF METALS THIRD EDITION

67-01 M13-57201
X-RAY DIFFRACTION MICROSCOPY STRUCTURAL STUDY OF THE AUSTENITE OF FE-NI ALLOYS IN THE DIRECT AND REVERSE MARTENSITIC TRANSFORMATIONS
67-01 M13-57351
THE COPPER-TIN-ARSENIC CONSTITUTION DIAGRAM. PT. 2. REACTIONS IN THE SOLID STATE 67-01 M13-57420
THE SYSTEM PLATINUM-GERMANIUM 67-01 M13-57496
HOT ROLLING TEXTURE OF LOW-CARBON STEEL
67-01 M13-58238
SOME INNOVATIONS AND OBSERVATIONS ON HIGH PRESSURE DIFFRACTOMETRY 67-01 M13-58762
EFFECT OF NASCENT PHASE ON THE KINETICS OF THE MARTENSITE TRANSFORMATION
67-01 M14-57101
NATURE OF CERTAIN FEATURES IN THE MARTENSITE TRANSFORMATION 67-01 M14-57103
PHASE AND ORDER TRANSITIONS DURING AND AFTER FILM DEPOSITION 67-01 M14-57121
INVESTIGATION OF PHASE TRANSFORMATIONS IN REFRACTORY METALS AND COMPOUNDS
67-01 M14-57135
EFFECT OF CYANIDING ON THE KINETICS OF ISOTHERMAL DECOMPOSITION OF AUSTENITE IN 35HM STEEL
67-01 M14-57152
HOT STAGE MICROSCOPE STUDY OF STRUCTURAL EVOLUTION OF SINTERS OF CARBONYL IRON DURING HEAT TREATMENT 67-01 M14-57170
EFFECT OF MANGANESE AND SILICON ON TRANSFORMATION OF SUPERCOOLED AUSTENITE IN COBALT STEEL
67-01 M14-57188
ON THE CAUSE OF THE LOWERING OF THE MARTENSITIC POINT AFTER PARTIAL TRANSFORMATION OF AUSTENITE IN THE INTERMEDIATE REGION
67-01 M14-57189
X-RAY DIFFRACTION ANALYSIS OF STRUCTURAL TRANSFORMATIONS DURING THE AGEING OF THE ALLOY ANCO-4. PT. 3. STATE AND CRYSTAL STRUCTURE OF THE PHASES FORMED DURING THE AGEING OF ANCO-4
67-01 M14-57340
MARTENSITE. SYNTHESIS OF CLASSICAL NOTIONS AFTER THE LITERATURE 67-01 M14-57403
THE PARTIAL LEAD-SELENIUM --0 TO 76 AT. PER CENT SE -- PHASE DIAGRAM 67-01 M14-57424
PHASE TRANSITIONS IN TRANSITION-METAL CHALCOGENIDES
67-01 M14-57442
THE PHASE CHANGE OF ZINC SULPHIDE AND THE STACKING SEQUENCE OF A NEW 66R POLYTYPE
67-01 M14-57479
PROBLEM OF GRADUAL TRANSFORMATION OF SUPERCOOLED AUSTENITE 67-01 M14-57637
INDIUM SELENIDE IN2SE3 67-01 M14-57646
INVESTIGATION OF THE POLYMORPHISM OF GA2SE3 SELENIDE OF VARIABLE COMPOSITION
67-01 M14-57647
INVESTIGATION OF THE DIRECT AND REVERSE MARTENSITIC TRANSFORMATION IN A FE-NI ALLOY BY X-RAY DIFFRACTION MICROSCOPY 67-01 M14-57673
INVESTIGATION OF THE REGULARITIES OF CRYSTALLIZATION AND STABILIZATION OF THE STRUCTURE IN THE CDSB AND CD3SB2 COMPOUNDS IN ALLOYS OF THE CD-SB SYSTEM 67-01 M14-57694
MICROSTRUCTURAL TRANSFORMATIONS DURING TEMPERING OF COMPLEX ALLOY STEELS WITH 12 PER CENT CR ARE STUDIED BY AN ELECTRON MICROSCOPE
67-01 M14-58173
POLYMORPHISM AND POLYTYPISM IN CRYSTALS
67-01 M14-58301
EFFECT OF NICKEL ON THE SIGMA TRANSFORMATION IN FE-45 PER CENT CR ALLOYS 67-01 M14-58329
DISLOCATION SUBSTRUCTURE IN IRON INDUCED BY ALPHA-GAMMA-ALPHA TRANSFORMATION CYCLING
67-01 M14-58466
BEHAVIOR OF GRAPHITE IN HYPEREUTECTIC IRON-CARBON ALLOY BY QUENCHING METHOD. PT. 2
67-01 M14-58548
THE CRYSTALLINE STRUCTURE AND STRUCTURAL RELATIONSHIP OF THE GAMMA AND EPSILON PHASES IN THE SYSTEM CU-SN 67-01 M14-58625
PROCESSES OF CARBIDE TRANSFORMATION ON THE TEMPERING OF STEEL 67-01 M15-57357
INTERNAL FRICTION IN COBALT IN THE AREA OF POLYMORPHOUS TRANSFORMATION 67-01 M17-57185
MECHANICAL PROPERTIES OF VARIOUS HEAT TREATED STRUCTURES IN THE LOW-CARBON LOW-ALLOY STEEL
67-01 M17-58247
TRANSFORMATIONS TAKING PLACE DURING THE HEATING OF SINTERED ALUMINUM POWDER 67-02 M09-60894
UTILIZATION OF THE KINETIC PLASTICITY OF STAINLESS STEEL FOR DECREASE IN WARPAGE DURING HEAT TREATMENT 67-02 M10-60848
THE URANIUM-DIOXIDE SYSTEM OF URANIUM ABOVE 1130 C
67-02 M13-62294
PROBLEM OF THE FORMATION OF AUSTENITE DURING ELECTRIC HEATING OF HYPEREUTECTOID STEELS
67-02 M14-58892
GOLD ALLOY SYSTEMS 67-02 M14-58906
KINETICS OF THE SOLID-LIQUID TRANSITION IN TIN
67-02 M14-58966
ACCOMMODATION FAULTING IN FE-NI MARTENSITIC TRANSFORMATION 67-02 M14-58968
THE NATURE OF INTERACTION BETWEEN COMPONENTS IN THE GAMMA AND GAMMA PRIME PHASE OF THE NI-AL, NI-AL-CR, NI-AL-CO AND NI-AL-FE SYSTEMS
67-02 M14-58983
STUDY OF 9 PER CENT NICKEL LOW-CARBON STEELS--THE PRECIPITATION OF AUSTENITE AND MICROSTRUCTURE
67-02 M14-59114
EFFECT OF CE AND LA ON EUTECTOID TRANSFORMATION OF AUSTENITE IN CAST IRON 67-02 M14-59184
THERMAL-DILATION BEHAVIOR OF TITANIUM ALLOYS DURING REPEATED CYCLING THROUGH THE ALPHA-BETA TRANSFORMATION 67-02 M14-59432
STUDY OF THE ISOTHERMAL TRANSFORMATIONS IN 17 PER CENT CR STAINLESS STEELS. PT. 3. INFLUENCE OF ALLOYING ELEMENTS OTHER THAN CARBON AND NITROGEN
67-02 M14-59632
INVESTIGATION OF THE DECOMPOSITION KINETICS OF SUPERCOOLED AUSTENITE IN 20KHGNR STEEL
67-02 M14-59676
THE NATURE OF TRANSFORMATIONS DURING HIGH-TEMPERATURE TEMPERING OF ANNEALED HIGH-SPEED STEEL 67-02 M14-59677
ORDER-DISORDER TRANSFORMATION OF FE-CO ALLOYS IN FINE PARTICLES 67-02 M14-59751
THE EFFECT OF HEAT TREATMENT ON SOME PROPERTIES OF COLD-ROLLED STRIP 67-02 M14-59808
STABILIZATION OF REVERSE MARTENSITIC TRANSFORMATION UNDER THE EFFECT OF INTERNAL PRECIPITATION HARDENING 67-02 M14-59856
THE MUTUAL EFFECTS OF TRANSFORMATION REACTIONS IN HEAT TREATMENTS CARRIED OUT IN A FLUCTUATING TEMPERATURE FIELD 67-02 M14-59915
STRUCTURE OF TICONAL ALLOY AFTER HEAT TREATMENT IN A MAGNETIC FIELD 67-02 M14-60067
STRUCTURAL TRANSFORMATIONS DURING HEATING OF STEEL
67-02 M14-60285
TRANSFORMATIONS DURING TEMPERING OF STEEL
67-02 M14-60286
REVIEW OF EXISTING KNOWLEDGE ON TRANSFORMATIONS OF SUPERCOOLED AUSTENITE 67-02 M14-60287
ON THE CLASSIFICATION OF ALLOYING ELEMENTS DURING FORMATION OF TITANIUM-BASE ALLOYS
67-02 M14-60547
PHASE TRANSFORMATIONS IN TITANIUM ALLOYS
67-02 M14-60548
PRECIPITATION OF --FE, CR-- SIGMA PHASE FROM AUSTENITE 67-02 M14-60629
THEORETICAL AND EXPERIMENTAL ASPECTS OF THE --225-- AUSTENITE-MARTENSITE TRANSFORMATION IN IRON ALLOYS 67-02 M14-60645
STUDY OF THE ISOTHERMAL TRANSFORMATIONS IN 17 PER CENT CR STAINLESS STEELS. PT. 3. INFLUENCE OF ALLOYING ELEMENTS OTHER THAN CARBON AND NITROGEN
67-02 M14-61124
DISINTEGRATION OF THE SUPERSATURATED SOLID SOLUTION IN THE ALLOY OF ALNICO WITH TITANIUM
67-02 M14-61168
CARBIDE TRANSFORMATIONS ON THE RAPID DEFORMATION OF STEEL 45 67-02 M14-61169
ON THE FEASIBILITY OF A COMPOSITE MARTENSITE MODEL FOR THE --225--F AUSTENITE-MARTENSITE TRANSFORMATION 67-02 M14-61508
CARBIDE REACTIONS IN THE HEAT TREATMENT OF HARD FACED HIGH-SPEED STEEL 67-02 M14-61752
KINETICS OF THE DECOMPOSITION OF A QUENCHED ALUMINUM-25 WT.- PER CENT ZINC ALLOY
67-02 M14-61839
INFLUENCE OF VARIOUS ADDITIONS ON STRUCTURE OF GRAY CAST IRON 67-02 M14-62005
INFLUENCE OF CERTAIN ALLOYING ELEMENTS ON THE KINETICS OF FORMATION OF PEARLITE
67-02 M14-62064
NEW PHASES IN THE ZINC-VANADIUM-OXYGEN SYSTEM
67-02 M14-62195
EFFECT OF ULTRASONIC VIBRATION ON DECOMPOSITION OF RESIDUAL AUSTENITE IN KHVG STEEL
67-02 M14-62268

PHASE TRANSFORMATIONS IN MIXTURES OF MGAL2O4-MGO, AL2O3 AND SIO2 67-02 M14-62292
PHASE TRANSFORMATION DAMAGE IN PLUTONIUM 67-02 M17-59050
THE PROPERTIES OF LOW-CARBON IRON-NICKEL-CHROMIUM MARTENSITES 67-02 M17-59426
DAMPING CAPACITY ON THE ALPHA-GAMMA TRANSFORMATION OF IRON. PT. 2 67-02 M17-61172
DAMPING CAPACITY ON THE ALPHA-GAMMA TRANSFORMATION OF IRON. PT. 1. 67-02 M17-61934
THERMOGRAVIMETRIC INVESTIGATIONS OF SUBSTANCES CONTAINING SULFATE WITH HIGH-TEMPERATURE CORROSION ON THE FIRE SIDE OF COAL-FIRED BOILERS 67-02 M16-62009
CONTRIBUTION TO THE INVESTIGATION OF THE PRESSURE-TEMPERATURE DIAGRAM OF PURE BERYLLIUM 67-03 M13-65261
TRANSFORMATION TWINS IN TITANIUM 67-03 M13-65841
THE STRUCTURE AND OCCURRENCE OF THE METASTABLE MONOCLINIC PHASE, ALPHA DOUBLE PRIME B IN URANIUM-MOLYBDENUM ALLOYS 67-03 M13-65850
HIGH PRESSURE PHASE IN METALLIC INDIUM ANTIMONIDE 67-03 M14-65147
THE PLASTIC DEFORMATION OF SILICON FERRITE OCCURRING DURING THE MARTENSITIC TRANSFORMATION 67-03 M14-65445
EFFECT OF OXYGEN ON PROPERTIES AND STRUCTURE OF VT16 TITANIUM ALLOY 67-03 M14-65587
TEMPERATURE DEPENDENCE OF ELASTIC CONSTANTS AND THERMAL EXPANSION FOR UO2 67-03 M15-65311
SUPERPLASTICITY AND LOW-TEMPERATURE DUCTILITY IN A CR-30 AT. PER CENT CO ALLOY 67-03 M17-65099
MARTENSITIC TRANSFORMATION IN 1KH15N9S3B STEEL DURING DEFORMATION 67-04 M07-67978
TH-THC PHASE DIAGRAM 67-04 M13-66274
NEW HIGH PRESSURE PHASES HAVING THE CORUNDUM STRUCTURE 67-04 M13-67364
DISORIENTATIONS IN AN IRON-NICKEL ALLOY AFTER THE DIRECT AND REVERSE MARTENSITIC TRANSFORMATIONS 67-04 M13-67639
METALLOGRAPHIC ATLAS OF IRON, STEELS AND CAST IRONS. V. 2. STRUCTURE OF STEELS 67-04 M13-67734
HIGH-TEMPERATURE X-RAY INVESTIGATIONS OF GAMMA BRASSES 67-04 M14-66033
THE THALLIUM-INDIUM SYSTEM AT ELEVATED PRESSURES AND TEMPERATURES 67-04 M14-66050
THE MARTENSITE TRANSFORMATION IN SMALL --0.1-0.3 MM-- IRON-NICKEL SINGLE CRYSTALS 67-04 M14-66054
STRUCTURE, HIGH-TEMPERATURE AND SINTERING BEHAVIOR OF A NEW MODIFICATION OF U3O8 --P-U3O8-- 67-04 M14-66161
STRUCTURE AND PROPERTIES OF COMPOUNDS FORMED BY ALUMINA AND OXIDES OF THE ELEMENTS OF GROUP 2-B 67-04 M14-66311
A FAMILY OF ORTHORHOMBIC COMPOUNDS OF THE MNY2S4 TYPE 67-04 M14-66342
FORMATION OF AUSTENITE DURING ELECTRIC HEATING OF HYPEREUTECTOID STEEL 67-04 M14-66371
PRE-PRECIPITATION AND PRECIPITATION PHENOMENA IN THE AL-ZN SYSTEM 67-04 M14-66534
THE RELATIONSHIP BETWEEN THE STRUCTURE OF ZIRCALOY 2 AND ITS CORROSION RESISTANCE TO STEAM UNDER PRESSURE AT 400 C 67-04 M14-66674
X-RAY INVESTIGATION OF THE PROCESS OF DECOMPOSITION OF IRON-BASE HEAT RESISTANT AUSTENITIC STEELS 67-04 M14-66705
EFFECT OF THERMAL CYCLING ON THE TRANSFORMATION OF AUSTENITE IN MAGNESIUM CAST IRON 67-04 M14-66901
CONTRIBUTION TO THE CR-C-N SYSTEM 67-04 M14-66915
RELATIONSHIP OF MICROSTRUCTURE TO SOME MECHANICAL PROPERTIES OF TI-8AL-1V-1MO 67-04 M14-66924
A THERMAL STABILIZATION OF AUSTENITE 67-04 M14-66929
PHASE TRANSFORMATION IN THE ALLOY TI-8AL-1MO-1V 67-04 M14-66934
TRANSFORMATION PLASTICITY DURING THE TEMPERING OF MARTENSITE AND THE TRANSFORMATION OF AUSTENITE TO BAINITE IN A MEDIUM-ALLOY STEEL 67-04 M14-66986
PRECIPITATION EFFECTS IN AUSTENITIC STAINLESS STEELS CONTAINING TITANIUM AND ALUMINIUM ADDITIONS 67-04 M14-66993
IN-SITU TRANSFORMATION OF FE3C TO MO2C IN IRON-MOLYBDENUM-CARBON ALLOYS 67-04 M14-67022
DETERMINATION OF THE INITIAL TEMPERATURE OF THE MARTENSITE TRANSFORMATION 67-04 M14-67132
EFFECT OF HEATING RATE ON THE ELEVATION OF THE CRITICAL TEMPERATURES OF LOW-CARBON MILD STEEL 67-04 M14-67193
ON THE POSITION OF CARBON ATOMS IN CRYSTAL LATTICES OF EPSILON PRIME-, EPSILON- AND KAPPA PRIME-MARTENSITE 67-04 M14-67380
AN X-RAY PHOTOGRAPHIC STUDY OF THE ALPHA-BETA TRANSFORMATION OF PURE URANIUM 67-04 M14-67456
TRANSFORMATION OF AUSTENITE DURING CONTINUOUS COOLING 67-04 M14-67615
THE PRELIMINARY RESULTS OF STUDYING TRANSFORMATION PHENOMENA IN NICKEL-COBALT ALLOYS 67-04 M14-67756
TIN IN COLD SERVICE 67-04 M14-67762
STUDY OF THE EFFECT OF SHOCK WAVES ON AUSTENITE TRANSFORMATION 67-04 M14-67854
DILATOMETRIC ANOMALIES IN TEXTURED ALLOYS DURING ALPHA-TO-GAMMA TRANSFORMATION 67-04 M14-67921
FACE-CENTERED-CUBIC TUNGSTEN FILMS 67-04 M14-68073
PHASE TRANSFORMATIONS IN COLD STRAINED IRON-MANGANESE ALLOYS 67-04 M15-66621
VARIATION OF PHASE COMPOSITION AND PROPERTIES OF 1KH14N14V2M AUSTENTIC STEEL DURING CREEP 67-04 M17-66844
INFLUENCE OF A PHASE TRANSFORMATION ON THE APPEARANCE OF HIGH-TEMPERATURE EMBRITTLEMENT AFTER NEUTRON IRRADIATION 67-04 M17-67465
INTERNAL FRICTION ON THE ALPHA-GAMMA TRANSFORMATION OF IRON. PT. 3 67-04 M17-67643
INFLUENCE OF PHASE TRANSFORMATIONS ON THE DUCTILITY OF AUSTENITIC-FERRITIC STEELS 67-04 M17-67980
STRUCTURE AND PROPERTIES OF KH16N6 --EP288-- STEEL 67-04 M17-67983
TRANSFORMATION OF WUSTITE 67-05 M04-69480
PHASE DIAGRAM OF BISMUTH AT LOW TEMPERATURES 67-05 M13-68572
TEXTURE STUDY OF THE ALPHA-TO-GAMMA TRANSFORMATION 67-05 M14-68249
KINETICS OF THE INTERMEDIATE TRANSFORMATION IN CHROMIUM-NICKEL-MANGANESE STEELS 67-05 M14-68255
INFLUENCE OF HEATING RATE ON TRANSFORMATIONS IN AN 18 PER CENT NICKEL MARAGING STEEL 67-05 M14-68435
DISSOLUTION OF THE PHASES IN THE NICKEL-GOLD SYSTEM DURING ISOTHERMAL ANNEALING 67-05 M14-68588
IDENTIFICATION AND GROWTH TOPOLOGY OF CRYSTALS DEPOSITED IN AN AL-CU-AG ALLOY 67-05 M14-68594
DECOMPOSITION OF GAMMA PHASE IN URANIUM ALLOYS CONTAINING 8, 10.8, AND 14.3 WT PER CENT MOLYBDENUM 67-05 M14-68722
THE PHASE EQUILIBRIA AND CRYSTAL CHEMISTRY OF THE INTERMEDIATE PHASES IN THE YTTERBIUM-ANTIMONY SYSTEM 67-05 M14-68766
ELECTRON DIFFRACTION AND ELECTRON MICROSCOPE ANALYSIS OF THE CARBIDES IN VACUUM-CONDENSED IRON-CARBON FILMS 67-05 M14-68837
THE DILATOMETRIC EFFECT ON THE ALPHA-GAMMA TRANSFORMATION IN A TEXTURED IRON-NICKEL ALLOY 67-05 M14-68838
THE PHASE TRANSITION DUE TO SHOCK COMPRESSION IN IRON 67-05 M14-68843
CARBIDE TRANSFORMATIONS ON THE TEMPERING OF STEELS 12KH1MF AND 15KH1M1F 67-05 M14-68851
THE CUO-V2O5 SYSTEM 67-05 M14-68919
ORIGIN AND NATURE OF MICROSTRUCTURES 67-05 M14-68991
CRYSTAL STRUCTURE OF TERBIUM AT 120 TO 300 K 67-05 M14-69025
ON THE TELLURIDES OF NICKEL 67-05 M14-69088
STUDY OF ISOTHERMAL TRANSFORMATIONS IN SEMI-FERRITIC STAINLESS STEELS WITH 17 PER CENT CHROMIUM 67-05 M14-69114
TRANSFORMATIONS OF INTERMETALLIC PHASES OF THE ANTIMONY-ZINC SYSTEMS 67-05 M14-69133
THE ORDER-DISORDER TRANSFORMATION IN CU3AU AT HIGH PRESSURE 67-05 M14-69210
PRECIPITATION AND COAGULATION OF INTERMETALLIC PHASES IN MULTICOMPONENT IRON ALLOYS 67-05 M14-69265
INVESTIGATION OF THE DECOMPOSITION OF A ZINC-

SUPERSATURATED BETA PHASE IN THE COPPER-ZINC SYSTEM 67-05 M14-69275
STRUCTURE OF THE OXIDES OF TANTALUM 67-05 M14-69290
THE ROLE OF LATTICE VACANCIES IN PHASE TRANSFORMATIONS OF BINARY ALLOYS 67-05 M14-69378
ORDERING AND MAGNETIC TRANSFORMATION IN AN FE-AL ALLOY 67-05 M14-69641
STUDY OF STRUCTURAL CHANGES IN THE SECOND STAGE OF DECOMPOSITION OF AL-ZN ALLOY 67-05 M14-69644
X-RAY STUDY OF PHASE TRANSFORMATIONS DURING HEAT TREATMENT OF VT3-1 TI ALLOY 67-05 M14-69645
EFFECT OF MULTIPLE PHASE TRANSFORMATIONS AND PLASTIC DEFORMATION ON ALLOTROPIC TRANSFORMATIONS IN COBALT 67-05 M14-69647
EFFECT OF HOT PLASTIC DEFORMATION ON THE KINETICS OF ISOTHERMAL TRANSFORMATION OF AUSTENITE 67-05 M14-69668
INVESTIGATION OF MARTENSITIC TRANSFORMATION IN N18K8M3T ALLOY 67-05 M14-69669
THE NUCLEATION OF MILITARY TRANSFORMATIONS 67-05 M14-69728
EXPERIMENTAL OBSERVATION OF THE INTERMEDIATE MU-PHASE IN CU-AL BETA ALLOYS 67-05 M14-69869
INDUCTION TEMPERING OF 60S2 STEEL 67-06 M10-70373
THE PREPARATION OF THIN FOILS OF TITANIUM ALLOYS 67-06 M13-69950
LOW-ENERGY ELECTRON DIFFRACTION OBSERVATIONS OF ALPHA-ALUMINA 67-06 M13-71678
FIRST TRANSFORMATION IN TEMPERING CARBON STEEL 67-06 M14-70162
DILATOMETRIC METHOD OF INVESTIGATING FERRITE FORMATION IN PIG IRON CONTAINING SPHEROIDAL GRAPHITE 67-06 M14-70200
INVESTIGATION OF THE TRANSFORMATION BEHAVIOR OF IRON-MANGANESE ALLOYS BY DAMPING MEASUREMENTS IN THE REGION OF 1 CYCLE/SEC 67-06 M14-70259
MARTENSITIC TRANSFORMATION IN MEDIUM- AND LOW-ALLOY TOOL STEEL 67-06 M14-70288
THERMOGRAPHIC DETERMINATION OF THE CARBON EQUIVALENT OF HYPOEUTECTOID CAST IRON 67-06 M14-70295
EFFECT OF THE CHEMICAL COMPOSITION ON THE CONTENT OF DELTA-FERRITE AND TRANSFORMATION TEMPERATURE OF INOCULATED 12 PER CENT CHROMIUM STEELS 67-06 M14-70325
METASTABLE EVAPORATED THIN FILMS OF CU-AG AND CO-AU ALLOYS. PT. 1. OCCURRENCE AND MORPHOLOGY OF PHASES 67-06 M14-70407
METASTABLE EVAPORATED THIN FILMS OF CU-AG AND CO-AU ALLOYS. PT. 2. KINETICS OF THE TRANSFORMATIONS 67-06 M14-70408
THE MECHANISM OF STRUCTURE TRANSFORMATIONS IN SUPERSATURATED AL-ZN ALLOYS 67-06 M14-70409
ON THE NATURE OF THE MARTENSITE TO AUSTENITE REVERSE TRANSFORMATION 67-06 M14-70435
LOW TEMPERATURE STRUCTURAL TRANSFORMATION IN NB3SN 67-06 M14-70574
ISOTHERMAL AUSTENITE TRANSFORMATIONS IN ANNEALED MAGNESIUM-TREATED IRON 67-06 M14-70756
HIGH PRESSURE AS A RESEARCH TOOL FOR SOLID-STATE PHYSICS 67-06 M14-71401
METALLURGICAL INVESTIGATIONS WITH A 500 KV ELECTRON MICROSCOPE 67-06 M14-71545
ALLOTROPIC TRANSFORMATIONS IN CERIUM 67-06 M14-71601
INTERRELATION OF ISOTHERMAL AND CONTINUOUS-COOLING HEAT TREATMENTS OF LOW-ALLOY STEELS AND THEIR PRACTICAL SIGNIFICANCE 67-06 M14-71934
MARTENSITIC TRANSFORMATION OF SOLID SOLUTIONS WITH COHERENT ELEMENTS 67-06 M14-71977
INVESTIGATION BY MEANS OF THE ELECTRON MICROSCOPE OF PRECIPITATION IN AL-CU SOLID SOLUTIONS. PT. 2. THE FORMATION OF THETA DOUBLE PRIME, THETA AND THETA PRIME PHASES IN AL-CU SOLID SOLUTIONS 67-06 M14-71987
COMMENT ON THE BOUNDARY OF THE TRANSFORMATION BA --BODY-CENTERED-- BA --COMPACT HEXAGONAL-- 67-06 M14-72013
POLYMORPHISM IN SOLID MERCURY--A CORRECTION 67-06 M14-72072
ANISOTROPY OF THE RATE OF GROWTH OF ALPHA-PHASE CRYSTALS DURING BAINITE TRANSFORMATION 67-06 M14-72343
PHASE TRANSFORMATIONS IN AL-ZN ALLOYS 67-06 M14-72344
INVESTIGATION OF CARBIDE FORMING DURING PEARLITIC DECOMPOSITION OF AUSTENITIC VANADIUM STEEL 67-06 M14-72364
STUDY OF THE DECOMPOSITION OF SUPERSATURATED CU-ZR SOLID SOLUTION BY THE NUCLEAR MAGNETIC RESONANCE METHOD 67-06 M14-72369
KINETICS OF THE DECOMPOSITION OF AUSTENITE AND FORMATION OF MICROSTRUCTURE OF STEEL IN THE BAINITE REGION 67-06 M14-72377
MAGNETIC, SUPERCONDUCTING, AND OTHER PHASE TRANSITIONS WITHIN THE METALLIC STATE 67-06 M16-71202
A MOSSBAUER EFFECT INVESTIGATION OF THE CRYSTALLINE ELECTRIC FIELD IN THULIUM METAL 67-06 M16-71988
INTERMEDIATE PHASES IN ALLOYS OF TITANIUM WITH IRIDIUM, RHODIUM, AND OSMIUM 67-07 M13-73277
TRANSMISSION ELECTRON MICROSCOPY OF VANADIUM-SILICON --V3SI-- AT LOW TEMPERATURES 67-07 M13-73624
HIGH-PRESSURE AND HIGH-TEMPERATURE TRANSFORMATIONS OF RARE EARTH MONOCHALCOGENIDES 67-07 M14-72452
CONDITIONS FOR THE COLUMNAR-EQUIAXED TRANSITION DURING SOLIDIFICATION OF BINARY ALLOYS 67-07 M14-72528
AN INVESTIGATION ON THE AGING BEHAVIOR AND PRECIPITATE IN 17-7 PH STAINLESS STEEL --STUDY OF 17-7 PH STAINLESS STEEL. PT. 10.-- 67-07 M14-72530
DETERMINING THE LATENT HEAT OF THE MARTENSITIC TRANSFORMATION INDUCED BY A MAGNETIC FIELD IN STEEL 67-07 M14-72589
APPLICATION OF THE CONTINUOUS COOLING TRANSFORMATION DIAGRAM TO THE PRACTICE OF HEAT TREATMENT 67-07 M14-73029
INVESTIGATION OF THE ONSET OF THE TRANSFORMATION FROM FACE CENTERED CUBIC AUSTENITE TO HEXAGONAL EPSILON MARTENSITE 67-07 M14-73228
STUDIES IN SOLID STATE CHEMISTRY. PT. 1. ON A SOLID-STATE MECHANISM FOR THE POLYMORPHIC TRANSFORMATION OF ORTHORHOMBIC TO TETRAGONAL PBO 67-07 M14-73637
PHASE TRANSFORMATIONS ON SOLID SURFACES 67-07 M14-73816
THE BAINITE TRANSFORMATION OF BETA-BRASS 67-07 M14-73929
STACKING FAULT PROBABILITIES IN COPPER-ALUMINUM MARTENSITE TRANSFORMED IN THIN FOILS 67-07 M14-73984
STRUCTURE AND CHEMICAL COMPOSITION OF CALORIZED LAYER DEPOSITED ON NI AND ITS ALLOYS 67-07 M14-74182
TRANSFORMATIONS AND STRUCTURES IN THE URANIUM-RHENIUM SYSTEM. PT. 1. METASTABLE ALPHA PRIME, ALPHA DOUBLE PRIME AND GAMMA STRUCTURES 67-07 M14-74229
TRANSFORMATIONS AND STRUCTURES IN THE URANIUM-RHENIUM SYSTEM. PT. 2. THE BETA TO ALPHA TRANSFORMATION 67-07 M14-74230
CONTROLLING DEFORMATION DURING TEMPERING 67-08 M10-75325
UTILIZATION OF THE KINETIC DUCTILITY OF STAINLESS STEEL TO DECREASE THE WARPING OF MACHINE PARTS DURING HEAT TREATMENT 67-08 M10-76106
STUDY OF PHASE TRANSITION IN NBO2 67-08 M13-75251
STUDY OF THE KINETICS OF THE ISOTHERMAL TRANSFORMATION OF AUSTENITE IN 20KHGNR STEEL 67-08 M14-74341
THE PROBLEM OF STABILIZING AUSTENITE 67-08 M14-74343
CAUSES OF THE EFFECT OF PULSED MAGNETIC FIELD ON MARTENSITIC TRANSFORMATIONS IN STEELS AND ALLOYS 67-08 M14-74640
PHASE CHANGES IN ELECTROLYTIC CO-P DEPOSITES DURING HEAT TREATMENT 67-08 M14-74925
BULK SUBLIMATION OF TITANIUM 67-08 M14-75180
OBSERVATION OF A MARTENSITIC TRANSFORMATION IN THE COMPOUND NIAL 67-08 M14-75581
PHASE EXCHANGE BETWEEN COPPER MATTE AND SLAG 67-08 M14-75692
STRAIN-INDUCED PHASE TRANSFORMATION IN METASTABLE CU-SI SOLID SOLUTIONS 67-08 M14-75968
SPINEL TO DEFECT NIAS STRUCTURE TRANSFORMATION 67-08 M14-75996
THERMOKINETIC DIAGRAMS OF HIGH-STRENGTH ALLOYED CAST IRON 67-08 M14-76039
INFLUENCE OF ADDITIONS OF DIFFERENT ELEMENTS ON THE STRUCTURE OF GREY IRON 67-08 M14-76088

THE MARTENSITIC TRANSFORMATION IN TI-NI ALLOYS OF NEAR-EQUIATOMIC COMPOSITION 67-08 M14-76217
THE STRUCTURE AND MECHANICAL PROPERTIES OF SHOCK-LOADED STEELS 67-08 M17-75332
EFFECT OF PRIOR PLASTIC DEFORMATION OF AUSTENITE ON MS IN AN FE-26 PER CENT NI-0.4 PER CENT C ALLOY 67-08 M17-75818
STUDY OF PHASE EQUILIBRIUM IN A PORTION OF THE TI-AL-CR-FE-SI-B SYSTEM 67-09 M13-77298
TRANSFORMATION AND DEFORMATION IN PLUTONIUM 67-09 M14-76302
THE BETA TO ALPHA PHASE TRANSFORMATION IN HIGH PURITY PLUTONIUM 67-09 M14-76303
STUDIES ON THE EQUILIBRIUM TEMPERATURE FOR THE ALPHA TO BETA TRANSFORMATION 67-09 M14-76304
TRANSFORMATION KINETICS OF THE ALPHA TO BETA AND DELTA TO ALPHA TRANSITIONS IN PURE AND ALLOYED PLUTONIUM 67-09 M14-76306
PHASE EQUILIBRIA STUDIES ON THE ALUMINIUM-PLUTONIUM SYSTEM 67-09 M14-76322
OBSERVATION OF ALPHA/GAMMA TRANSFORMATION ON PURE IRON SURFACES IN THE ELECTRON MICROSCOPE 67-09 M14-76466
ISOTHERMAL TRANSFORMATIONS IN TITANIUM-MOLYBDENUM ALLOYS 67-09 M14-76562
THE CASE OF THE HIGH STRENGTH OF HADFIELD STEELS 67-09 M14-76694
INVESTIGATION OF THE PHASE TRANSITION AND THE STRUCTURE OF ALPHA-GETE 67-09 M14-76771
MICROSTRUCTURE AND MECHANICAL PROPERTIES OF IRON-NICKEL BASE ALLOYS CONTAINING 9 AT. PER CENT COPPER AFTER VARIOUS HEAT TREATMENTS 67-09 M14-76789
THE PRESENCE OF ALPHA-II PHASE IN AN ALZN6OCU2 ALLOY 67-09 M14-76946
ISOTHERMAL TRANSFORMATIONS IN TITANIUM-CHROMIUM ALLOYS 67-09 M14-77069
OXIDATION OF U4O9 DURING HEATING IN AIR 67-09 M14-77124
THE SHEET-TEXTURE OF FE-30.2 WT PER CENT NI ALLOY 67-09 M14-77253
EFFECT OF STRAIN DEFORMATION ON ISOTHERMAL TRANSFORMATION OF SUPERCOOLED AUSTENITE OF 40KHSA STEEL 67-09 M14-77284
TRANSFORMATION OF METASTABLE PHASE FEAL AND CHANGES IN MAGNETIC PROPERTIES DURING ORDERING OF QUENCHED FE-AL ALLOY 67-09 M14-77296
INVESTIGATIONS ON THE TRANSFORMATION OF THE RETAINED AUSTENITE IN LOW-ALLOY STEELS WITH ABOUT 1 PER CENT C 67-09 M14-77349
NEW PHASE TRANSFORMATION IN INSB AT HIGH PRESSURE AND HIGH TEMPERATURE 67-09 M14-77429
METALLOGRAPHIC EVIDENCE FOR A MARTENSITIC TRANSFORMATION IN U3SI 67-09 M14-77479
ISOTHERMAL TRANSFORMATIONS IN HYPOEUTECTIC GRAY IRON BETWEEN THE CRITICAL RANGE AND ROOM TEMPERATURE 67-09 M14-77670
THE RELATIONSHIP OF THE RATE AT WHICH ALPHA-MODIFICATION CENTERS GROW IN VERY PURE TIN TO TEMPERATURE 67-09 M14-77749
THE METALLOGRAPHY OF GAMMA TO EPSILON TO ALPHA TRANSFORMATION IN HIGH-ALLOYED STEELS 67-09 M14-77793
PHASE CHANGES IN HIGH-SPEED DEFORMATION OF STEEL 67-09 M14-77866
STRUCTURAL CHANGES DURING HEAT TREATMENT OF MAGNICO ALLOYS 67-09 M14-77867
PHASE TRANSFORMATIONS IN --ALPHA PLUS BETA-- TITANIUM ALLOYS, AND CONSISTENCY OF THEIR DIMENSIONS 67-10 M14-78344
EFFECTS OF SHOCK PLASTIC DEFORMATION ON THE PHASE CHANGES AND STRUCTURAL TRANSFORMATIONS IN STEELS 67-10 M14-78348
EFFECTS OF CARBIDE-FORMING ELEMENTS ON THE KINETICS OF THE ISOTHERMAL TRANSFORMATION OF AUSTENITE AND THE MECHANICAL PROPERTIES OF MANGANESE-MOLYBDENUM STEEL 67-10 M14-78936
INFLUENCE OF HYDROGEN ON ISOTHERMAL TRANSFORMATIONS IN VT15 TITANIUM ALLOY 67-10 M14-79140
STUDY OF THE CHARACTERISTICS OF MARTENSITIC TRANSFORMATION DURING AUSROLLING OF NI STEELS 67-10 M14-79224
MODERN VERY HIGH-PRESSURE RESEARCH 67-10 M14-79334
MARTENSITE INCLUSIONS IN STEEL WIRES DEVELOPED DURING DRAWING OR THROUGH THE WRONG USE OF ROPES. PT. 2 67-10 M14-79425
STUDY OF ALLOYS IN THE NIOBIUM-ZINC SYSTEM 67-10 M14-79630
SIGMOID OXIDATION OF POWDERED ALPHA-TUNGSTEN SPECIMENS UNDER OXYGEN PRESSURE OF 10-1 TO 10-3 TORR 67-10 M14-79712
EFFECT OF POLYMORPHIC TRANSFORMATION ON THE STRUCTURE OF THALLIUM 67-10 M14-79723
THE TRANSFORMATIONS OF A CD-MG ALLOY WITH A STOICHIOMETRIC COMPOSITION OF CDMG3 67-10 M14-79874
THE REFRACTORY NATURE OF CUBIC SOLID SOLUTIONS FORMED BY ZR WITH CERTAIN SESQUIOXIDES OF RARE EARTH ELEMENTS 67-10 M14-79896
DECOMPOSITION OF A GERMANIUM SOLID SOLUTION TO ALUMINUM IN AN ALUMINUM ALLOY WITH 4 PER CENT GE 67-10 M14-79913
MARTENSITIC TRANSFORMATION AT VERY LOW-TEMPERATURES IN 18-10 LOW-CARBON AUSTENITIC STEELS DURING WORK HARDENING AND CREEP 67-10 M14-79936
INFLUENCE OF THE PARTIAL MARTENSITIC TRANSFORMATION ON THE ISOTHERMAL TRANSFORMATION OF AUSTENITE 67-10 M14-80016
ON REACTION IN THE SYSTEM NA2O-AL2O3-FE2O3-H2O AT 90 DEGREES 67-10 M14-80063
SOLUBILITY OF NITROGEN AND FORMATION CONDITIONS OF ALUMINUM AND TITANIUM NITRIDES IN KH2ON80 ALLOY 67-10 M14-80077
ELEVATED NITROGEN CONTENTS IN AUSTENITIC CRNI AND CRMN STEELS 67-10 M17-78339
CRYSTAL LATTICE PARAMETER AND STRUCTURAL DISTORTIONS IN FE-RH ALLOY DURING PHASE TRANSFORMATIONS 67-11 M13-80724
CRYSTAL STRUCTURE OF DYSPROSIUM AT 77 TO 300 K 67-11 M13-80787
URANIUM METAL AND ALLOYS 67-11 M14-80460
FORMATION OF AUSTENITE DURING ELECTRICAL HEATING OF HYPEREUTECTOID STEEL 67-11 M14-80973
ELECTRON-MICROSCOPIC INVESTIGATION OF INITIAL STAGES IN THE DECOMPOSITION OF SUPERSATURATED CU-2 PER CENT BE SOLID SOLUTION 67-11 M14-81045
INFLUENCE OF ENTROPY IN PHASE STABILIZATION 67-11 M14-81103
THERMODYNAMIC PROPERTIES AND SECOND-ORDER PHASE TRANSITION OF LIQUID CD-SB ALLOYS 67-11 M14-81336
MARTENSITE-TO-FCC REVERSE TRANSFORMATION IN AN FE-NI ALLOY 67-11 M14-81341
STUDY OF THE MAGNETIC SUSCEPTIBILITY OF MARTENSITIC EPSILON-PRIME AND EPSILON PHASES IN MANGANESE STEELS 67-11 M15-80723
THE ATOMIC HEAT OF ZR BETWEEN 300 AND 1700 C 67-11 M15-80866
ELECTRON-MICROSCOPY STUDIES OF TRANSFORMATIONS IN A TI-V ALLOY 67-12 M13-82975
STRUCTURAL TRANSFORMATIONS IN KHN77TYUR NICKEL ALLOY UNDER PROLONGED HEATING 67-12 M14-81837
PHASE TRANSFORMATIONS IN CB-TI-ZR ALLOYS 67-12 M14-81845
SOME CHARACTERISTICS OF MARTENSITE DECOMPOSITION IN HIGH-CHROMIUM STEEL WITH INCREASED NITROGEN CONTENT 67-12 M14-81847
INVESTIGATION OF THE PHASE TRANSFORMATION KINETICS IN THE COPPER OXIDE-SILICON OXIDE SYSTEM 67-12 M14-82110
PHASE SEPARATION IN THE CU-NI-FE SYSTEM., MOSSBAUER EFFECT EVIDENCE AGAINST DECOMPOSITION BY THE SPINODIAL MECHANISM 67-12 M14-82218
AGING OF FE-NI-TI ALLOYS IN THE PROCESS OF REVERSE ALPHA-TO-GAMMA MARTENSITIC TRANSFORMATION 67-12 M14-82334
EFFECT OF MAGNETIC FIELD ON MARTENSITIC TRANSFORMATION IN TYPE-N23G4 ALLOYS 67-12 M14-82336
KINETICS OF THE ISOMORPHIC TRANSFORMATION IN IRON-RHODIUM ALLOYS 67-12 M14-82418
THE ROLE OF PRESSURE IN THE FORMATION OF ETCH-RESISTANT LAYERS ON RUBBING SURFACES OF CAST IRON PARTS 67-12 M14-82440
CONTRIBUTION TO THE DECOMPOSITION OF RETAINED AUSTENITE IN HIGH-CR STEELS 67-12 M14-82558
CRYSTALLOGRAPHY OF THE FCC TO BCC MARTENSITIC TRANSFORMATION IN AN IRON-PLATINUM ALLOY 67-12 M14-82865
PREFERRED TRANSFORMATION IN STRAIN-HARDENED AUSTENITE 67-12 M14-82964
A COMPARISON OF PHASE TRANSFORMATIONS IN THREE COMMERCIAL TITANIUM ALLOYS 67-12 M14-83055
THE KINETICS OF REVERSION OF SPHERICAL GUINIER-PRESTON ZONES 67-12 M14-83124

PHASE TRANSFORMATIONS

PHASE TRANSFORMATION OF AS2SE3 AND S82SE3 FILMS 67-12 M14-83269
INVESTIGATION OF RECRYSTALLIZATION OF FERRITIC-MARTENSITIC STEEL X7CR14 --REMANIT 1510-- 67-12 M14-83290
ISOTHERMAL MARTENSITE FORMATION IN IRON-MANGANESE-CARBON ALLOYS 67-12 M14-83398
MARTENSITE TRANSFORMATIONS IN LOW-CARBON MANGANESE STEELS 67-12 M14-83399
STUDY OF AUSTENITE FORMATION. THE CASE OF 15CDV6 STEEL 67-12 M14-83494
CONTRIBUTION TO THE STUDY OF U ALLOYS CONTAINING SMALL AMOUNTS OF VANADIUM 67-12 M14-83517
EFFECT OF MARTENSITIC TRANSFORMATION ON THE ELECTRICAL AND MAGNETIC PROPERTIES OF NITI 67-12 M15-82748
THE MAGNETIC AND CRYSTALLOGRAPHIC PROPERTIES OF MNBI STUDIED BY NEUTRON DIFFRACTION 67-12 M15-83489
A VARIABLE TEMPERATURE LIQUID HELIUM STAGE FOR METALLOGRAPHIC STUDIES OF SUPERCONDUCTING MATERIALS 67-12 M16-83402
THE NATURE OF THE DEFORMATION OF CERTAIN AUSTENITIC STEELS AT LOW TEMPERATURES 67-12 M17-83312

PHASE TRANSFORMATIONS, ALLOYING EFFECTS
CONTRIBUTION TO THE STUDY OF URANIUM ALLOYS CONTAINING SMALL AMOUNTS OF ADDITION ELEMENTS 67-01 M14-57169
STUDY ON TRANSFORMATION FEATURES OF CARBURIZING CR-MO STEELS 67-01 M14-58309
EFFECT OF PHOSPHORUS ON THE STABILITY OF PEARLITE CEMENTITE IN GRAY CAST IRON 67-02 M14-58990
COOLING TRANSFORMATION DIAGRAMS FOR AISI 1036 AND 10B36 67-02 M14-59462
EFFECT OF ALUMINIUM ON THE STABILITY OF THE BETA-PHASE IN TI-MO-MN ALLOYS 67-02 M14-60291
INFLUENCE OF ALLOYING ELEMENTS ON AUSTENITE TRANSFORMATION DURING WELDING OF BAINITIC REINFORCING STEELS 67-02 M14-61970
EFFECTS OF THE CARBON CONTENT ON THE PROPERTIES OF WC-TIC-CO ALLOYS 67-03 M14-65846
EFFECT OF ALUMINUM ON STRUCTURE AND PROPERTIES OF MAGNETIC ALLOYS 67-06 M15-70289
EFFECT OF COLUMBIUM ON THE PROPERTIES OF WELDABLE PLAIN CARBON STRUCTURAL STEELS 67-06 M17-71437
THE EFFECT OF SMALL NB ADDITIONS ON THE RECRYSTALLIZATION OF AUSTENITE AFTER HOT WORKING 67-07 M14-72529
INFLUENCE OF CARBON IN MAGNICO ALLOYS 67-08 M14-74991
EFFECT OF CHROMIUM AND NICKEL ON ALPHA-PHASE FORMATION IN STRAINING AUSTENITIC STEELS 67-08 M14-75883
DISTRIBUTION OF NICKEL AND CHROMIUM IN VERY HARD ROLL IRON 67-09 M04-77373
TRANSFORMATION FEATURES OF CARBURIZED CR-MO STEELS 67-09 M14-76757
THE KINETICS OF THE ALPHA TO BETA TO ALPHA TRANSFORMATIONS IN SOME DILUTE PLUTONIUM ALLOYS 67-09 M14-78264
EFFECTS OF INOCULANTS ON THE MECHANICAL AND TECHNOLOGICAL PROPERTIES OF ALLOY STEELS 67-09 M17-76983
EFFECT OF ALLOYING ELEMENTS ON THE KINETICS OF THE TRANSFORMATION OF AUSTENITE DURING WELDING OF BAINITIC REINFORCING STEELS 67-10 M14-78827
INFLUENCE OF CE AND LA ON THE EUTECTOID TRANSFORMATION OF AUSTENITE IN CAST IRON 67-10 M14-78893
INFLUENCE OF THE LIMIT OF SOLUBILITY OF CHROMIUM IN BETA URANIUM ON THE ISOTHERMAL TRANSFORMATIONS OF U-CF ALLOYS QUENCHED FROM 720 C 67-12 M14-83197

PHASE TRANSFORMATIONS, COMPOSITION EFFECTS
PROPERTIES OF WC-TIC-13 PER CENT CO ALLOYS IN CONNECTION WITH THE CARBON CONTENT OF CARBIDES 67-02 M14-59752
STRUCTURAL INVESTIGATIONS ON HIGH-NITROGEN CR-NI AUSTENITIC STAINLESS STEELS 67-09 M14-77826
DIFFUSIONLESS TRANSFORMATION IN THE COPPER-ZINC-ALUMINIUM SYSTEM AND IN THE BETA DOUBLE PRIME-MARTENSITE PHASE 67-10 M14-78691

PHASE TRANSFORMATIONS, COOLING EFFECTS
EFFECTS OF IDENTICAL COOLING CONDITIONS ON THE STRUCTURE AND PROPERTIES OF STEEL BLANKS WITH DIFFERENT DIMENSIONS 67-06 M14-71110
MARTENSITE IN IRON-NITROGEN ALLOYS 67-07 M14-74173
PRODUCTION OF NEW PHASES BY ULTRARAPID QUENCHING OF LIQUID ALLOYS 67-11 M10-80246

PHASE TRANSFORMATIONS, CRYSTAL LATTICES
THE MARTENSITIC TRANSFORMATION IN COBALT 67-07 M14-72636

PHASE TRANSFORMATIONS, HEATING EFFECTS
A NOTE ON THE TEMPERING BEHAVIOR OF A TI-9 WT PER CENT TA ALLOY QUENCHED FROM BETA REGION 67-01 M14-58739
EFFECT OF REPEATED HEATING AND COOLING ON CHANGE IN THE PHASE COMPOSITION OF MANGANESE STEEL 67-05 M14-69649
INVESTIGATION OF THE TEMPERATURE RANGES OF TEMPERING EFFECTS DURING RAPID HEATING 67-06 M10-70364
OBSERVATIONS MADE WITH CARBURIZATION AND IRREVERSIBLE TRANSFORMATION OF IRON-CHROMIUM-NICKEL-CARBON ALLOYS 67-07 M14-73289
TRANSFORMATIONS IN NITROGEN-CONTAINING CR-MN-NI STEEL DURING TEMPERING 67-07 M14-74191
STRUCTURAL CHANGES IN HEAT RESISTANT 13CRMO 4 4 AND 10 CRMO 9 10 STEELS AFTER EXTENDED ANNEALING AT 550 TO 780 C 67-09 M14-77087
INFLUENCE OF SPARK MACHINING ON SURFACE LAYER STRUCTURE 67-09 M14-77413
STRUCTURE AND MECHANICAL PROPERTIES OF IRON-NICKEL-BASE ALLOYS CONTAINING 12 AT. PER CENT ALUMINIUM AFTER VARIOUS HEAT TREATMENTS 67-10 M14-78689
PHASE TRANSFORMATIONS AND CHANGE IN STRUCTURE DURING HEATING OF CR-MN-MO AUSTENITIC-MARTENSITIC STEEL 67-11 M14-81158

PHASE TRANSFORMATIONS, IMPURITY EFFECTS
SOME ELECTRICAL-RESISTIVITY MEASUREMENTS ON CERIUM METALS OF VARIOUS PURITIES 67-06 M15-69930

PHASE TRANSFORMATIONS, PRESSURE EFFECTS
THEORETICAL ANALYSIS OF THE EFFECT OF HIGH PRESSURE ON PHASE TRANSFORMATIONS IN PURE METALS 67-02 M14-59918
MAGNETIC PROPERTIES OF IRON AND INVAR UNDER HIGH PRESSURE 67-03 M15-65915
THE EFFECTS OF HIGH PRESSURE ON THE PHASE EQUILIBRIA OF SOME PLUTONIUM ALLOYS 67-04 M14-67466
PHASE TRANSITIONS IN TEO4 AT HIGH PRESSURES 67-06 M14-70049
THEORETICAL ANALYSIS OF THE EFFECT OF HIGH PRESSURE ON PHASE TRANSFORMATIONS IN PURE METALS 67-07 M14-72573
A SHOCK-INDUCED PHASE TRANSFORMATION IN BISMUTH 67-08 M14-75116
THE CRYSTALLOGRAPHY OF THE PRESSURE INDUCED PHASE TRANSFORMATIONS IN IRON ALLOYS 67-11 M13-81594
PHASE TRANSFORMATIONS IN THE FE-MN SYSTEM AT HIGH HYDROSTATIC PRESSURES 67-11 M14-81169

PHASE TRANSFORMATIONS, RADIATION EFFECTS
CHARACTERISTICS OF IRRADIATION AND THERMAL TREATMENTS OF WHITE CAST IRON 67-02 M14-60858
SOME EFFECTS OF LASER RADIATION ON METALS 67-06 M16-70107
SINGULARITIES OF RADIATION-HEAT TREATMENT OF WHITE CAST IRON 67-08 M14-76116

PHASE TRANSFORMATIONS, SIZE EFFECTS
THE BETA TO ALPHA TRANSFORMATION IN SMALL SPECIMENS OF PLUTONIUM METAL 67-09 M14-76305

PHASE TRANSFORMATIONS, STRESS EFFECTS
NEWER METHODS TO IMPROVE THE MECHANICAL PROPERTIES OF STEEL THROUGH DEFORMATION 67-02 M17-60506
STRESSES DURING MARTENSITIC TRANSFORMATIONS OF 3KH13 AND 4KH13 STAINLESS STEELS 67-04 M14-66359
CHARACTERISTICS OF BETA TO ALPHA AND ALPHA TO BETA TRANSFORMATIONS IN PLUTONIUM 67-06 M14-71613
EFFECT OF DEFORMATION ON TRANSFORMATION DURING ANNEALING OF NI-MO ALLOY 67-09 M14-77295
STRESSES DURING MARTENSITIC TRANSFORMATION OF AUSTENITIC STAINLESS STEELS 3KH13 AND 4KH13 67-11 M14-80961

PHASE TRANSFORMATIONS, TEMPERATURE EFFECTS
STABILITY OF AUSTENITE IN SOME FE-CR-NI ALLOYS AT LOW DEFORMATION TEMPERATURES 67-02 M14-61981
PHASE TRANSFORMATION OF FE-CR BINARY SYSTEM AT ABOUT 500 C 67-08 M14-74404
DEFECT EQUILIBRIA OF PUO2-X, 1045 TO 1505 C 67-09 M14-76348
STABILITY OF AUSTENITE IN SOME FE-CR-NI ALLOYS IN DEFORMATION AT LOW TEMPERATURE

67-10 M14-78838

PHASE TRANSFORMATIONS, THERMAL CYCLING
STRUCTURAL VARIATIONS ON THE GAMMA-EPSILON-GAMMA TRANSFORMATIONS IN THE IRON-MANGANESE ALLOY G19 67-05 M14-68252

PHASE TRANSFORMATIONS, WELDING EFFECTS
TRANSFORMATIONS AND REACTIONS IN THE TRANSFORMATION ZONE DURING WELDING AND OXYGEN CUTTING 67-09 M14-77976

PHASES /STATE OF MATTER/
SEE ALSO ALPHA PHASE
ALPHA PRIME PHASE
BETA PHASE
CHI PHASE
DELTA PHASE
EPSILON PHASE
GAMMA PHASE
GAMMA PRIME PHASE
GAS PHASES /METALLURGICAL/
INTERMETALLIC PHASES /CONGRUOUS/
INTERMETALLIC PHASES /INCONGRUOUS/
LAVES PHASE
LIQUID PHASES
RHO PHASE
SIGMA PHASE
SOLID PHASES
TAU PHASE
THETA PHASE
THETA PRIME PHASE
ZETA PHASE
PHASE ANALYSIS OF OXIDE FILMS ON FE-AL POWDER COMPOSITES 67-01 M09-58175
ON THE SI3N4 IN CAST IRON 67-01 M13-58254
THE THEORY OF THE STABILITY OF THE SOLID-LIQUID INTERFACE UNDER CONSTITUTIONAL SUPERCOOLING. PT. 1 67-01 M14-57570
INVESTIGATION OF PHASE EQUILIBRIA IN ALUMINUM-RICH ALLOYS OF THE GE-AL-SB SYSTEM 67-01 M14-57653
ON THE RELATIONS BETWEEN THE EUTECTIC SOLIDIFICATION RATE AND THE MICROSCOPIC STRUCTURE OF CAST IRON 67-01 M14-58256
A STUDY ON THE CO PHASE COMPOSITION CONTAINED IN WC -CO-BASE CEMENTED CARBIDES 67-01 M14-58333
NEW PHASE IN THE MERCURY-INDIUM SYSTEM 67-01 M14-58534
THE LOWER OXIDES OF NIOBIUM 67-01 M14-58535
NATURE OF METALLIC PHASES 67-01 M16-58138
MECHANICAL PROPERTIES OF EPSILON- AND GAMMA-PHASES IN IRON-MANGANESE ALLOYS 67-01 M17-58055
EFFECT OF BORON ON INTERFACIAL DISTRIBUTION OF ELEMENTS IN WHITE CAST IRON AND THEIR REDISTRIBUTION DURING ANNEALING 67-02 M06-61807
FEATURES OF THE PHASE FORMATION IN COATINGS CONDENSED ONTO A HOT BASE 67-02 M12-61165
GE, SN, AL AND BE SOLID SOLUTIONS IN THE V3SI COMPOUND AND THEIR SUPERCONDUCTIVITY 67-02 M13-58866
INVESTIGATION OF THE PBTE-SB2TE3 SYSTEM 67-02 M13-58870
X-RAY DETERMINATION OF THE VOLUME FRACTION OF PHASES IN TEXTURED MATERIALS 67-02 M13-59435
PRODUCTION OF RARE EARTH SILICIDES BY ARC MELTING 67-02 M13-59882
DETECTION OF PRECIPITATION OF IRON CARBON MARTENSITES WHICH CANNOT BE OBSERVED WITH THE ELECTRON MICROSCOPE 67-02 M13-59916
STRUCTURAL DIAGRAMS OF THE QUATERNARY 18 PER CENT CR-FE-C-N SYSTEM 67-02 M13-59983
CONTRIBUTION TO THE EQUILIBRIUM DIAGRAM OF THE SYSTEM MERCURY-INDIUM 67-02 M13-60615
STRUCTURAL FEATURES OF THE HAEMATITE OF IRON SCALE RELATED TO THE CONDITIONS UNDER WHICH IT WAS FORMED 67-02 M13-61924
ELECTRON MICROSCOPE OBSERVATION OF GAMMA-PHASE PRECIPITATION IN VANADIUM PERMENDUR 67-02 M14-59072
STUDY OF THE ISOTHERMAL TRANSFORMATIONS IN 17 PER CENT CR STAINLESS STEELS. PT. 3. INFLUENCE OF ALLOYING ELEMENTS OTHER THAN CARBON AND NITROGEN 67-02 M14-59632
THE TERNARY SYSTEM INDIUM TELLURIDE-INDIUM ANTIMONIDE-ANTIMONY 67-02 M14-61594
PRECIPITATION PROCESSES IN A COMMERCIAL COPPER-NICKEL-SILICON ALLOY 67-02 M14-61886
INFLUENCE OF VARIOUS ADDITIONS ON STRUCTURE OF GRAY CAST IRON 67-02 M14-62005
SUPERCONDUCTIVITY OF ALPHA URANIUM 67-02 M16-61139
STRUCTURE OF THIN OXIDE FILMS ON IRON-SILICON ALLOYS 67-02 M18-61941
CURRENT REFRACTORIES RESEARCH AND ITS APPLICATIONS 67-03 M04-65932
CHANGE IN PHASE COMPOSITION OF DOLOMITE BOTTOM DURING SERVICE 67-03 M05-65303
NEW PHASES IN THE ZR-P AND ZR-AS SYSTEMS 67-03 M13-65690
THE STRUCTURE AND OCCURRENCE OF THE METASTABLE MONOCLINIC PHASE, ALPHA DOUBLE PRIME B IN URANIUM-MOLYBDENUM ALLOYS 67-03 M13-65850
THE TERNARY SYSTEM PLUTONIUM-CERIUM-COBALT 67-03 M14-65087
STRESS-ENHANCED DIFFUSION IN COPPER-TELLURIUM COUPLES 67-03 M14-65088
PHASE THEORY. PT. 3 67-03 M14-65484
CESIUM-ANTIMONY FILMS IN EQUILIBRIUM WITH CESIUM VAPOR 67-03 M16-65891
REACTIONS OF MANGANESE WITH SILICA 67-04 M04-67032
MICROSTRUCTURAL STUDIES OF RENE 41 SIMULATED WELD HEAT-AFFECTED ZONES 67-04 M11-67630
THE BINARY SYSTEMS SR-IN AND BA-IN 67-04 M13-66159
THE URANIUM-IRON-SILICON SYSTEM. THE NEW PHASE U2FESI3 67-04 M13-67108
ELECTRON DIFFRACTION DETERMINATION OF THE IONIZATION OF THE CARBON ATOM IN BETA-MO2C CRYSTAL 67-04 M13-67111
THE RHENIUM-CHROMIUM-CARBON SYSTEM 67-04 M13-67341
NEW HIGH PRESSURE PHASES HAVING THE CORUNDUM STRUCTURE 67-04 M13-67364
FORMATION AND GROWTH OF INTERMETALLIC COMPOUNDS IN THE CU-ZN SYSTEM 67-04 M14-66014
THE STRUCTURE OF THE ZRCR2-TACR2 SYSTEM 67-04 M14-66165
HIGH TEMPERATURE PHASE-EQUILIBRIA IN THE TH-U-C SYSTEM IN THE PRESENCE OF FREE CARBON 67-04 M14-66240
PHASE TRANSFORMATION IN THE ALLOY TI-8AL-1MO-1V 67-04 M14-66934
SOME PRECIPITATION REACTIONS IN CHROMIUM-MANGANESE-NITROGEN STAINLESS STEELS ON AGING AND COLD-WORKING 67-04 M14-66992
IN-SITU TRANSFORMATION OF FE3C TO MO2C IN IRON-MOLYBDENUM-CARBON ALLOYS 67-04 M14-67022
PRECIPITATION OF NITRIDES IN IRON-MANGANESE-NITROGEN ALLOYS 67-04 M14-67024
ON THE HEXAGONAL PHASE OF NICKEL 67-04 M14-67109
A DIFFUSION STUDY IN THE TITANIUM-SILVER SYSTEM 67-04 M14-67265
THE TERNARY SYSTEM RE-FE-B 67-04 M16-66909
RESEARCH ON NOBLE METAL ALLOYS CONTAINING HIGHER ELECTROPOSITIVE ELEMENTS. PT. 10. HEAT OF FORMATION OF AL-AU ALLOYS 67-05 M09-69352
THE HIGH-TEMPERATURE LATTICE SPACINGS OF SOME R. E. PD3 PHASES. PT. 4 67-05 M13-68219
CRYSTAL STRUCTURE OF SM5GE4 67-05 M13-69090
HEXAGONAL URANIUM NITRIDE 67-05 M13-69344
HIGH-TEMPERATURE CONDENSED-PHASE EQUILIBRIA IN THE SYSTEM TI-W-O 67-05 M14-68216
ZIRCONIUM-MOLYBDENUM NITRIDE 67-05 M14-68217
PREPARATION AND X-RAY INVESTIGATION OF PLATINUM ALLOYS WITH THE RARE-EARTH METALS --PT5LN AND PT3LN PHASES-- 67-05 M14-68218
THE PHASE EQUILIBRIA AND CRYSTAL CHEMISTRY OF THE INTERMEDIATE PHASES IN THE YTTERBIUM-ANTIMONY SYSTEM 67-05 M14-68766
ON THE VANADIUM-OXYGEN SYSTEM.. CONFIRMATION OF THE VO2.33 --V3O7-- PHASE BY MAGNETOCHEMISTRY 67-05 M14-68911
A NEW QUATERNARY LIWV2O7.5 PHASE 67-05 M14-68920
COALESCENCE OF DISPERSION PHASES IN ALLOYS OF THE AL-CU, AL-MG AND CD-SB SYSTEMS 67-05 M14-68972
ON THE TELLURIDES OF NICKEL 67-05 M14-69088
TRANSFORMATIONS OF INTERMETALLIC PHASES OF THE ANTIMONY-ZINC SYSTEMS 67-05 M14-69133
STRUCTURE OF THE OXIDES OF TANTALUM 67-05 M14-69290
THE BETA TO ALPHA PHASE CHANGE IN A URANIUM-PLATINUM-NIOBIUM ALLOY 67-05 M14-69566
ELECTRON MICROSCOPIC EXAMINATION OF HIGH-COERCIVE COBALT-PLATINUM ALLOYS 67-05 M14-69790
THE ELECTROLYTIC ISOLATION OF NI3NB FROM NICKEL

BASED ALLOYS 67-05 M19-69619
ON THE TERNARY PHASES UCOAL, UIRAL, AND UNIAL OF THE C22 --FE2P-- TYPE 67-06 M13-71623
PHASE COMPOSITION OF WELDED METAL OF LOW-ALLOY STEELS 67-06 M13-72301
PHASE EQUILIBRIUM AND THE MECHANISM OF REDUCING SOLID SOLUTIONS IN THE SPINEL REGION OF THE MG-AL-CR-FE-O SYSTEM 67-06 M14-69975
PHASE CHEMICAL ANALYSIS OF ALLOYS OF THE ZRO2-ZRC AND ZRO2-TIC SYSTEM 67-06 M14-69995
INFLUENCE OF TEMPERATURE AND AGING TIME ON STRUCTURE AND PHASE COMPOSITION OF AMG6 AL ALLOYS 67-06 M14-70074
CHANGE IN THE STRUCTURE AND PROPERTIES OF HEAT RESISTANT STEELS IN WELD JOINTS OF STEAM LINES 67-06 M14-70155
STRUCTURAL CHANGES IN THE NI-CR-TI-AL-W SYSTEM AT A TEMPERATURE OF 850 C 67-06 M14-70251
ON THE NATURE OF MASSIVE PHASES IN HYPOEUTECTOID CU-GA ALLOYS 67-06 M14-70404
A MAGNETIC DEVICE FOR DETECTING PHASE CHANGES AT ELEVATED TEMPERATURES 67-06 M14-71011
PLANES AND NONVARIANT EQUILIBRIA IN THE SYSTEM COPPER-CADMIUM-ZINC 67-06 M14-71660
ROLE OF TITANIA IN BAUXITE REFRACTORIES 67-07 M04-73622
METASTABLE PHASES 67-07 M14-73678
HIGH-TEMPERATURE VAPORIZATION AND THERMODYNAMICS OF TITANIUM OXIDES. PT. 1. VAPORIZATION CHARACTERISTICS OF THE CRYSTALLINE PHASES 67-07 M14-74215
THE CONSTITUTION OF NB-CO ALLOYS 67-08 M13-75293
THE STRUCTURES OF THE BI-SN, BI-PB AND BI-TL EUTECTICS 67-08 M13-76053
THE TIN-IRON SYSTEM. PT. 1. THE PHASE DIAGRAM LIQUIDUS BOUNDARIES 67-08 M13-76062
EXOEMISSION IN GAMMA-TO-EPSILON AND EPSILON-TO-GAMMA TRANSFORMATIONS 67-08 M14-75263
HARDENING AND TEMPERATURE STABILITY OF STRUCTURAL CHANGES, CAUSED BY GAMMA-TO-EPSILON AND EPSILON-TO-GAMMA TRANSFORMATIONS IN FE-MN ALLOYS 67-08 M14-75264
DISSOCIATION PRESSURES IN THE SYSTEM YTTERBIUM-YTTERBIUM DIHYDRIDE--A COMPARISON WITH CALCIUM-CALCIUM DIHYDRIDE 67-08 M14-75297
TRANSFORMATION OF THE SECOND ORDER OF FE2O3 AT 685 C 67-08 M14-76049
INFLUENCE OF ADDITIONS OF DIFFERENT ELEMENTS ON THE STRUCTURE OF GREY IRON 67-08 M14-76088
X-RAY ANALYSIS OF STRUCTURE OF HIGH-COBALT ALLOY FOR PERMANENT MAGNETS IN THE 800 TO 1200 C TEMPERATURE RANGE 67-08 M15-75272
HIGH-PRESSURE STUDY OF THE FIRST-ORDER PHASE TRANSITION IN MNAS 67-08 M16-75930
INFLUENCE OF FRICTION CONDITIONS ON THE LATTICE CONSTANT OF THE GAMMA-PHASE DURING THE WEAR OF AUSTENITIC MANGANESE CAST IRON 67-08 M17-76009
CRYSTAL STRUCTURE REFINEMENTS OF THE B 20 AND MONOCLINIC --COGE-TYPE-- POLYMORPHS OF FEGE 67-09 M13-76384
INVESTIGATION OF THE PHASE COMPOSITION OF IRON-ALUMINUM WELDS 67-09 M13-76854
THE CRYSTAL STRUCTURES OF COMPOUNDS IN THE SCANDIUM-ZINC SYSTEM 67-09 M13-76938
RESEARCH INTO THE CRYSTAL STRUCTURE OF THE METASTABLE PHASES IN TICONAL ALLOY 67-09 M13-76945
ON THE EXISTENCE OF A NEW PHASE IN THE CHROMIUM-SULFUR SYSTEM--CHROMIUM POLYSULFIDE CR2S5 67-09 M13-77681
STRUCTURAL STUDY OF A NEW TITANIUM SELENIDE--TI9SE4 67-09 M13-77682
STUDY OF THE STRUCTURE OF SOME TITANIUM ALLOYS IN AN ELECTRON MICROSCOPE USING THIN FOILS 67-09 M13-77770
REVEALING OF HARD METAL STRUCTURES BY INTERFERENCE VAPOR-DEPOSITION 67-09 M13-77794
PHASES WITH DIAMOND SUBSTRUCTURE IN TERNARY BERYLLIUM ALLOYS 67-09 M13-78272
MONOXIDE-TYPE COMPOUNDS OF URANIUM AND PLUTONIUM. PT. 1. OXYCARBIDES 67-09 M14-76755
CONDITIONS FOR CRYSTALLIZATION OF INTERMEDIATE PHASES IN THE CD-SB SYSTEM 67-09 M14-76846
RESEARCH INTO ZIRCONIUM-NICKEL-ALUMINIUM SYSTEM ALLOYS WITH HIGH ALUMINIUM CONTENT 67-09 M14-76937
EACH PHASE COMPOSITION OF TIC-NI CERMET 67-09 M14-77246
THE MARTENSITIC TRANSFORMATION OF IRON PRECIPITATES IN A COPPER MATRIX 67-09 M14-77925
SEVENTH STATUS REPORT OF THE U. S. GOVERNMENT METALWORKING PROCESSES AND EQUIPMENT PROGRAM 67-10 M01-79734
PHASE RELATIONS IN THE SYSTEM CAO-AL2O3-IRON OXIDE 67-10 M05-79601
THE AGING MECHANISM IN AL-CU-MG ALLOY 67-10 M10-79220
INVESTIGATION OF THE PHASE COMPOSITION OF EI847 STEEL ALLOYED WITH MOLYBDENUM AND NIOBIUM 67-10 M13-78929
COURSE OF THE MARTENSITE-AUSTENITE RETRANSFORMATION IN A FE-NI ALLOY WITH 32.5 PER CENT NI --BY WEIGHT-- WITH FAST HEATING 67-10 M13-79067
MISCIBILITY GAP IN THE TH-THC SYSTEM FROM HIGH-TEMPERATURE X-RAY DATA 67-10 M13-79594
JOINT USE OF CONTROLLED-POTENTIAL METALLOGRAPHIC ETCHING AND THE ELECTRON PROBE MICROANALYZER FOR THE STUDY OF COMPLEX STRUCTURES IN STAINLESS STEELS 67-10 M13-79984
THE COMPOSITION OF SOLID PHASES IN THE SYSTEM NA2O-AL2O3-H2O 67-10 M13-80061
THE STRUCTURE AND PROPERTIES OF A HIGH-SPEED STEEL CONTAINING ALUMINUM IN THE CAST STATE 67-10 M14-78345
ALLOY PHASES IN W-RE AND MO-RE ALLOYS AT LOW TEMPERATURE 67-10 M14-78674
EFFECT OF THE TEMPERING TEMPERATURE AND TIME ON THE STRUCTURE AND PHASE COMPOSITION OF THE AMG6 ALLOY 67-10 M14-78820
NEW PHASES IN A CD-V-O2 SYSTEM 67-10 M14-79713
A FAMILY OF CAL2S4 COMPOUND FORMED BY RARE EARTH ELEMENTS BETWEEN HO AND LU 67-10 M14-79714
THERMODYNAMIC PROPERTIES OF THE TWO-PHASE REGION OF CONSTANT-COMPOSITION BINARY SOLUTIONS 67-10 M15-79250
SOME WORK FUNCTIONS OF VAPOR DEPOSITED URANIUM ON POLYCRYSTALLINE TUNGSTEN FOIL 67-10 M15-79570
CALORIMETRIC STUDIES OF DELTA, DELTA PRIME AND EPSILON PLUTONIUM 67-10 M19-79592
COMPLEX NITRIDE IN CR-NI-NB STEELS 67-10 M19-79775
A NEW PHASE OF NONSTOICHIOMETRIC NATURE IN THE POTASSIUM-OXYGEN-VANADIUM SYSTEM 67-11 M01-81565
PHASE EQUILIBRIA IN THE SYSTEM MNO-MN2O3-SIO2 67-11 M04-80117
STUDIES ON DEFORMED SUPERFICIAL LAYERS PRODUCED BY ABRASION IN 18-8 STAINLESS STEEL BY TRANSMISSION ELECTRON MICROSCOPY 67-11 M13-80954
FIELD-ION MICROSCOPY OF COBALT 67-11 M13-81088
PHASE STABILITY AND CRYSTAL CHEMISTRY OF COMPLEX COMPOUNDS CONTAINING TRANSITION ELEMENTS AND NONMETALS 67-11 M13-81117
ORIENTATION RELATIONSHIP AND COHERENCY BETWEEN MO2C AND THE FERRITE MATRIX 67-11 M13-81144
SOME RESULTS OF A STUDY OF THE PHASE COMPOSITION AND STRUCTURE OF SLAGS FROM FUSION OF COPPER AND NICKEL 67-11 M13-81512
STRUCTURAL COMPONENTS OF WELD METALS IN LOW ALLOY STEELS 67-11 M13-81573
EVOLUTION DURING TEMPERING AT A SLOWLY RISING TEMPERATURE OF THE MATRIX OF A 2 PER CENT-C IRON ALLOY, PREVIOUSLY SUBJECTED TO A MARTENSITIC QUENCH 67-11 M14-81560
THE THERMODYNAMIC STABILITY OF METALLIC PHASES 67-11 M15-81105
THE ELECTRONIC SPECIFIC HEATS OF ALLOY PHASES BASED ON THE NOBLE METALS 67-11 M15-81115
ATOMIC-SIZE CRITERIA IN CERTAIN INTERMEDIATE PHASES OF SILVER AND GOLD 67-11 M16-81114
THE IMPORTANCE OF THE INTERNAL STRESS IN GRAY AND SPHEROLITIC CAST IRON 67-11 M17-80498
FUNDAMENTAL ASPECTS OF THE OXIDATION OF ZR IN CARBONIC GAS 67-11 M18-80354
PHASE COMPOSITION AND AGEING OF AL-CU-MN-CD ALLOYS 67-12 M01-82421
EXAMINATION OF THE OXIDE FILMS ON IRON-CHROMIUM MELTS 67-12 M13-82149
X-RAY INVESTIGATION OF THE NB-FE SYSTEM AND THE DETERMINATION OF THE THERMODYNAMIC PROPERTIES OF THE COMPOUND NBFE2 67-12 M13-82166
A NEW TYPE OF OXYGENATED BRONZES--THE MIXED VANADIUM-MOLYBDENUM BRONZES WITH A LITHIUM INSERTION 67-12 M13-82285

CONCERNING A NEW TERNARY PHASE, NBMNSI 67-12 M13-82286
PROPERTIES OF SN ALLOYS CONTAINING SM, EVIDENCE FOR A NEW PHASE 67-12 M13-82513
STRUCTURAL DIAGRAMS AND PHASE REACTIONS OF FE-CR-N TERNARY SYSTEM 67-12 M13-82826
THE RBF-CDF2 SYSTEM 67-12 M13-83160
AMORPHOUS FERROMAGNETIC PHASE IN IRON-CARBON-PHOSPHORUS ALLOYS 67-12 M15-83273
OXIDATION MECHANISMS FOR NI-AL ALLOYS AT TEMPERATURES BETWEEN 900 AND 1300 C 67-12 M18-82742

PHASES /STATE OF MATTER/, ALLOYING EFFECTS
STUDY OF AS-ROLLED CARBON STEELS OVER RANGES OF URANIUM, SULFUR AND CARBON CONTENTS 67-02 M01-60925
EFFECT OF ALUMINIUM ON THE STABILITY OF THE BETA-PHASE IN TI-MO-MN ALLOYS 67-02 M14-60291
RECENT RESEARCH ON VANADIUM BRONZES. PT. 2. INSERTION OF MONOVALENT ELEMENTS 67-02 M14-60924
EFFECTS OF THE CARBON CONTENT ON THE PROPERTIES OF WC-TIC-CO ALLOYS 67-03 M14-65846
CONDITIONS FOR THE EXISTENCE OF A NITRIDE PHASE IN NICKEL ALLOYS CONTAINING TITANIUM, ZIRCONIUM AND ALUMINUM 67-08 M13-74339
EFFECT OF VANADIUM AND MOLYBDENUM ON THE PROPERTIES AND PHASE TRANSFORMATIONS OF THE INTERMETALLIC COMPOUND TICR2 67-08 M13-75957
SOLUBILITY OF CALCIUM IN PHASE CONSTITUENTS OF HIGH-SILICON FERROSILICON 67-08 M14-74572
INFLUENCE OF BORON ON THE PHASE DISTRIBUTION OF ELEMENTS IN WHITE IRON AND THEIR REDISTRIBUTION DURING ANNEALING 67-09 M06-78079
HYSTERESIS IN THE ALPHA-BETA TRANSITION OF URANIUM SATURATED WITH SILICON 67-09 M14-78266
METALLOGRAPHY OF CAST IRON 67-10 M13-79218
THE PROCESS OF GRAPHITE PRECIPITATION OF CALCIUM GRAPHITE STEEL 67-11 M14-81059
THE ORDERING TRANSFORMATION IN TITANIUM-ALUMINUM ALLOYS CONTAINING UP TO 25 AT. PER CENT ALUMINUM 67-11 M14-81343
MICROSTRUCTURES AND NITRIDES OF FE-CR-N TERNARY SYSTEM 67-12 M13-82825

PHASES /STATE OF MATTER/, CHEMICAL ANALYSIS
SLAG-METAL EQUILIBRIA IN TIN SMELTING 67-02 M03-60255
INVESTIGATION OF CARBIDES IN TEMPERED HIGH-CARBON STEELS 67-04 M13-66006

PHASES /STATE OF MATTER/, COOLING EFFECTS
INVESTIGATION OF CHROMIUM STEELS AFTER CONTINUOUS COOLING AT VARIOUS RATES 67-02 M14-61990
INVESTIGATION OF CHROME STEELS AFTER CONTINUOUS COOLING AT DIFFERENT RATES 67-10 M14-78847
METASTABLE PHASES 67-11 M14-81123
METASTABLE INDIUM-BISMUTH PHASES PRODUCED BY RAPID QUENCHING 67-12 M14-82866

PHASES /STATE OF MATTER/, CRYSTAL LATTICES
THE BETA-RHOMBOHEDRAL BORON STRUCTURE 67-01 M13-58408
A GAMMA-PHASE IN THE PLUTONIUM-MERCURY SYSTEM 67-01 M13-58537

PHASES /STATE OF MATTER/, CRYSTAL STRUCTURE
STRUCTURE OF THE TAV2 PHASE 67-05 M13-69238

PHASES /STATE OF MATTER/, ELECTRICAL PROPERTIES
SUPERCONDUCTING CRITICAL TEMPERATURES OF NONSTOICHIOMETRIC TRANSITION METAL CARBIDES AND NITRIDES 67-02 M16-60627

PHASES /STATE OF MATTER/, HEATING EFFECTS
QUENCHED STRUCTURE AND TEMPERING PROCESS OF IRON-NITROGEN BINARY ALLOYS 67-08 M14-74416

PHASES /STATE OF MATTER/, MAGNETIC PROPERTIES
ORDERING AND MAGNETIC TRANSFORMATION IN AN FE-AL ALLOY 67-05 M14-69641
MAGNETISM OF THE TITANIUM-OXYGEN SYSTEM 67-05 M15-69300

PHASES /STATE OF MATTER/, MICROSTRUCTURE
COLOR METALLOGRAPHY IN BLACK AND WHITE 67-02 M13-59440
STRUCTURAL TRANSFORMATIONS DURING HEATING OF STEEL 67-02 M14-60285
A METALLOGRAPHIC STUDY OF PRECIPITATION IN A NI-12.7 AT. PER CENT AL ALLOY 67-02 M14-60642

PHASES /STATE OF MATTER/, PRESSURE EFFECTS
THE BI 1-12 TRANSITION PRESSURE MEASURED WITH A DEAD-WEIGHT PISTON GAUGE 67-10 M14-79167
PHASE RELATIONS, RESISTIVITY, AND ELECTRONIC STRUCTURE OF CESIUM AT HIGH PRESSURES 67-10 M16-79414

PHASES /STATE OF MATTER/, RADIATION EFFECTS
THE EFFECT OF NEUTRON IRRADIATION ON THE THERMAL STABILITY OF CEMENTITE IN WHITE CAST IRON 67-02 M14-59909

PHASES /STATE OF MATTER/, TEMPERATURE EFFECTS
RESEARCH ON THE URANIUM-OXYGEN-CARBON SYSTEM 67-05 M14-68765
VOLUME CHANGES OF GAMMA BRASSES WITH TEMPERATURE 67-05 M14-69267
TEMPERATURE AFTER-EFFECTS IN TWO-PHASE ALLOYS 67-08 M15-75279
THE CARBIDE PHASES IN MAR-M200 67-12 M13-82562

PHASES /STATE OF MATTER/, THERMAL STABILITY
PHASE REACTIONS IN B-1900 NICKEL-BASE ALLOY FROM 1600 TO 1800 F 67-01 M14-58467

PHASES /STATE OF MATTER/, THERMODYNAMICS
ELECTROMOTIVE-FORCE AND CALORIMETRIC STUDIES OF THERMODYNAMIC PROPERTIES OF SOLID AND LIQUID SILVER-TIN ALLOYS 67-02 M15-59421
THE URANIUM-CARBON-NITROGEN SYSTEM 67-02 M15-60617

PHASES /STATE OF MATTER/, WELDING EFFECTS
THE ALUMINUM BRONZES IN WELDED STRUCTURES 67-09 M14-77973

PHENOLIC EPOXY RESINS
SEE EPOXY RESINS

PHONONS
THE INFLUENCE OF HIGH-PHONON FLUX DENSITIES ON THE X-RAY REFLECTIVITY OF NEARLY IDEAL CDS CRYSTALS 67-08 M16-75253
PHONONS 67-10 M16-78307
ELECTRONIC EXCITATIONS IN METALS 67-10 M16-78308
THE THERMODYNAMICS OF THE PHONON DRAG IN IONIC SEMICONDUCTORS 67-11 M15-80939
DETERMINATION OF THE PHONON SPECTRUM OF A CRYSTAL FROM THE HEAT CAPACITY 67-11 M16-81042

PHONONS, SCATTERING
THE PHONON FREQUENCY DISTRIBUTION OF VANADIUM 67-07 M16-74057

PHOSPHATE COATINGS
FORMATION OF THE ZINC PHOSPHATE FILM ON MILD STEEL 67-01 M12-57614
LEAD PHOSPHATE PROTECTS STEEL AND PRESERVES ITS WELDABILITY 67-04 M12-66503
THE SURFACE TREATMENT OF EXTRUDED PARTS 67-04 M12-68059
THE EFFECT OF ULTRASONICS ON THE PHOSPHATING PROCESS 67-05 M12-68490

PHOSPHATE COATINGS, ADHESION
SURFACE TREATING BEFORE PAINTING--IRON AND ZINC PHOSPHATIZING 67-02 M12-58978

PHOSPHATE COATINGS, CORROSION
PARKERIZING SINTERED PARTS WITH PRELIMINARY HEAT TREATMENT 67-06 M12-70765
NEW ACCELERATED TEST METHODS FOR THE INVESTIGATION OF CORROSION RESISTANCE OF SURFACE-PROTECTED STEEL SHEET--CORROSION TEST OF PHOSPHATIZED BUT NOT PAINTED STEEL SHEET 67-09 M18-76706

PHOSPHATE COATINGS, METAL PROCESSING LUBRICANTS
EVALUATION OF STEEL WIRE DRAWING LUBRICANTS USING RADIO ISOTOPE P32 67-06 M07-71136

PHOSPHATES
PHOSPHATE BONDING OF ZIRCONIA 67-05 M05-69571

PHOSPHATES, BENEFICIATION
BENEFICIATION TESTS ON PHOSPHATE ORES WITH HIGH LIMESTONE CONTENTS BY INSERTION OF FLOTATION 67-07 M02-73880

PHOSPHATES, REDUCTION /CHEMICAL/
EQUILIBRIUM REACTION OF THE DISSOCIATION AND REDUCTION OF IRON OXIDE PHOSPHATES 67-10 M14-79316

PHOSPHATING /COATING/
THE PHOSTEAM PROCESS 67-01 M12-58219
NEW BONDERIZED STEEL SHEET 67-01 M12-58555
COLD PHOSPHATING OF STEEL 67-01 M12-58791
COLD FORMING 67-02 M07-59631
NEW EXPERIENCE WITH ELECTROPHORETIC PAINTING INSTALLATIONS 67-02 M12-60219
LEAD PHOSPHATE PROTECTS STEEL AND PRESERVES ITS WELDABILITY 67-04 M12-66503
DIP CLEANING PLUS METAL PRETREATMENT 67-05 M12-69876
INFLUENCE OF SURFACE CONDITION ON PIT CORROSION OF PHOSPHATED MILD STEEL SHEETS 67-05 M18-69131
PHOSPHATING SYSTEM RUSTPROOFS TRUCK BODIES

67-06 M12-70723
SIMPLER PRETREATMENT PROCESSES 67-06 M12-71902
THE CORROSION RESISTANCE OF PAINTED STEEL SHEETS AT VARIOUS ATMOSPHERIC RELATIVE HUMIDITIES 67-06 M18-71180
TRICLENE PHOSPHATIZING PREPARES METAL PARTS FOR IMPROVED FINISHING 67-07 M12-72934
SOME PROMISING PROCESSES TO PROTECT SINTERED IRON AND STEEL AGAINST CORROSION 67-07 M18-73230
COLD PHOSPHATING OF CARBON METAL IN ZN2--PO4--2 SOLUTIONS 67-08 M12-76285
COLD PHOSPHATING OF CARBON STEEL IN ZINC PHOSPHATE SOLUTIONS 67-10 M12-79278
A CRITICAL SURVEY OF PHOSPHATING PROCESSES 67-11 M12-80664
PREPARATION OF IRON AND STEEL WIRE FOR THE PRODUCTION OF SCREWS, NUTS AND FORMED COMPONENTS 67-12 M12-82443
METHOD FOR THE CONTINUOUS SURFACE TREATMENT OF METAL STRIP 67-12 M12-83453

PHOSPHATIZING
SEE PHOSPHATING /COATING/

PHOSPHIDES, BAND THEORY
BAND STRUCTURE OF GAAS, GAP, INP AND ALSB.. THE K.P METHOD 67-04 M16-66741
RADIATIVE RECOMBINATION IN N-TYPE INP 67-09 M16-77176

PHOSPHIDES, COATINGS
PHASE CHANGES IN ELECTROLYTIC CO-P DEPOSITES DURING HEAT TREATMENT 67-08 M14-74925

PHOSPHIDES, CRYSTAL GROWTH
PREPARATION AND PROPERTIES OF EPITAXIAL GALLIUM PHOSPHIDE 67-05 M14-68628

PHOSPHIDES, CRYSTAL LATTICES
CRYSTALLOGRAPHY OF SIP AND SIAS SINGLE CRYSTALS AND OF SIP PRECIPITATES IN SI 67-03 M13-65872

PHOSPHIDES, ELECTRICAL PROPERTIES
THE APPLICATION OF CRYSTAL FIELD THEORY TO THE ELECTRICAL PROPERTIES OF CO IMPURITIES IN GAP 67-04 M16-66757
MAGNETORESISTANCE 67-07 M16-74207

PHOSPHIDES, ETCHING
DISTINGUISHING BETWEEN IRON CARBIDE AND IRON PHOSPHIDE BY ETCHING 67-01 M13-57385

PHOSPHIDES, MAGNETIC PROPERTIES
MAGNETIC PROPERTIES OF THE IRON-GROUP METAL PHOSPHIDES 67-07 M15-73545

PHOSPHIDES, OPTICAL PROPERTIES
OPTICAL REFLECTION OF GALLIUM PHOSPHIDE, GALLIUM ARSENIDE, AND THEIR SOLID SOLUTIONS 67-05 M16-69382

PHOSPHIDES, PHYSICAL PROPERTIES
THE PREPARATION AND PROPERTIES OF ZNSIAS2, ZNGEP2 AND CDGEP2 SEMICONDUCTING COMPOUNDS 67-02 M16-59744
DISSOCIATION PRESSURE OF INDIUM ARSENIDE, GALLIUM ARSENIDE, AND GALLIUM PHOSPHIDE 67-11 M15-80161

PHOSPHIDES, SEMICONDUCTORS
THE PREPARATION AND PROPERTIES OF ZNSIAS2, ZNGEP2 AND CDGEP2 SEMICONDUCTING COMPOUNDS 67-03 M16-65394
MIXED SCATTERING IN 3-V COMPOUNDS 67-04 M16-66782

PHOSPHIDES, THERMAL PROPERTIES
DETERMINATION OF THE HEAT OF FORMATION OF INDIUM AND GALLIUM PHOSPHIDES BY COMBUSTION IN A CALORIMETER BOMB 67-11 M15-80162

PHOSPHOR BRONZES, MECHANICAL PROPERTIES
ON THE DUCTILITY CRITERION IN PRESSURE DEFORMATION OF METALS 67-02 M17-60735
MECHANICAL PROPERTIES OF PHOSPHOR BRONZE WIRE SPRING 67-08 M17-75949

PHOSPHOR COPPER, MICROSTRUCTURE
SURFACE OBSERVATIONS OF PRECIPITATES IN COMMERCIALLY PURE COPPER COMPRESSED AT ELEVATED TEMPERATURES 67-07 M13-72532

PHOSPHORIZATION
SEE PHOSPHATING /COATING/

PHOSPHORS, ELECTRICAL PROPERTIES
MEASUREMENTS OF THE DECAY OF LUMINESCENCE OF ELECTROLUMINESCENT ZNS PHOSPHORS WITH DIFFERENT EXCITATION 67-03 M16-65440

PHOSPHORUS, ALLOYING ADDITIVE
EFFECT OF PHOSPHORUS ON THE STABILITY OF PEARLITE CEMENTITE IN GRAY CAST IRON 67-02 M14-58990
THE FEASIBILITY OF REDUCING THE HARMFUL EFFECT OF PHOSPHORUS ON PROPERTIES OF G13L STEEL 67-02 M17-61743
THE EFFECT OF SULFUR, PHOSPHORUS AND SILICON ADDITIVES ON THE ACTIVITY AND TYPE OF CORROSION OF NICKEL ANODES 67-03 M18-65417
CHANGE IN THE TENDENCY OF PHOSPHORUS-DOPED COPPER TO THE FORMATION OF STACKING FAULTS 67-04 M14-67100
EFFECT OF SMALL ADDITIONS OF PHOSPHORUS ON THE STRENGTHENING AND STACKING FAULT DENSITY OF COPPER-ALUMINIUM ALLOYS 67-05 M14-68253
ELECTRICAL CONDUCTIVITY OF NICKEL-PHOSPHORUS FOILS 67-05 M15-69337
BEHAVIOR OF PHOSPHORUS IN CADMIUM TELLURIDE 67-05 M16-69399
EFFECT OF PHOSPHOROUS ON THE WELDABILITY OF HIGH-YIELD POINT STEELS 67-05 M17-69169
EFFECT OF PHOSPHORUS ON THE MAGNETIZATION OF NICKEL 67-07 M15-73547
INFLUENCE OF PHOSPHORUS ON PROPERTIES OF 45KH10G14YU2 STEEL 67-07 M17-74192
INVESTIGATION OF THE ACTIVITY OF PHOSPHORUS IN LIQUID IRON 67-08 M14-75658
PHOSPHORUS IN CAST IRONS--IMPURITY OR FACTOR OF QUALITY 67-11 M06-80527
THE EFFECT OF THE FOUR MOST IMPORTANT ALLOYING ELEMENTS OF CAST IRON 67-11 M14-81384
METALLURGY OF CU FOR ELECTRICAL USE 67-12 M03-82806
THE EFFECT OF PHOSPHORUS ON THE NITROGEN SOLUBILITY AND DIFFUSIVITY IN ALPHA IRON 67-12 M14-82714
INFLUENCE OF PHOSPHORUS AND COPPER ON THE ANISOTROPY AND DRAWABILITY OF EXTRAMILD RIMMED STEEL 67-12 M17-83229

PHOSPHORUS, ALLOYING EFFECTS
INFLUENCE OF SULPHUR, PHOSPHOROUS AND SILICON ON SOLIDIFICATION CRACKING IN TYPE 30KH10G10 WELD METAL 67-04 M11-67939

PHOSPHORUS, BINARY SYSTEMS
PHASE DIAGRAMS OF THE TI-P SYSTEM 67-02 M13-59839
NEW PHASES IN THE ZR-P AND ZR-AS SYSTEMS 67-03 M13-65690
USE OF PHASE DIAGRAMS OF BINARY SYSTEMS TO CALCULATE THE HEAT OF FUSION OF THE SOLVENT 67-05 M15-69110
GROWTH OF THE SOLID-LIQUID REGION DURING ONE-DIMENSIONAL SOLIDIFICATION OF BINARY ALLOYS. PT. 1 67-12 M14-82745

PHOSPHORUS, CONCENTRATION /COMPOSITION/
USE OF SELECTIVE ETCHING AND RADIOACTIVE PHOSPHORUS TO STUDY THE DISTRIBUTION OF PHOSPHORUS IN STEEL 67-09 M13-78157

PHOSPHORUS, DIFFUSION
DIFFUSION FROM DOPED OXIDE FILMS AS A PROCESS FOR THE PRODUCTION OF STRUCTURAL SEMICONDUCTOR ELEMENTS 67-02 M14-59620
DIFFUSION OF PHOSPHORUS IN IRON 67-05 M14-68376
DIFFUSION-INDUCED DEFECTS IN SILICON. PT. 1 67-05 M14-69207
DIFFUSION-INDUCED DEFECTS IN SILICON. PT. 2 67-05 M14-69208
SOLUTE DIFFUSION IN PLASTICALLY DEFORMED SILICON CRYSTALS 67-07 M14-72885
USE OF AUTORADIOGRAPHY FOR ANALYSIS OF INTERACTION OF CARBON AND PHOSPHORUS IN STEEL 67-09 M13-77402
PRECIPITATION OF PHOSPHORUS, ARSENIC, AND BORON IN THIN SILICON FOILS 67-09 M14-77152
THE GETTERING OF IRON FROM SILICON 67-11 M14-80538
STUDY OF THE EFFECT OF ULTRASONIC VIBRATIONS ON THE DIFFUSION OF PHOSPHORUS AND CARBON IN IRON 67-12 M14-83409

PHOSPHORUS, IMPURITIES
IMPURITY REDISTRIBUTION IN THERMAL OXIDATION OF SILICON 67-01 M03-58316

PHOSPHORUS, RADIOACTIVE TRACERS
MICROANALYSIS OF OXYGEN BY A RADIOACTIVE REAGENT 67-03 M19-65252

PHOSPHORUS, REACTIONS /CHEMICAL/
REACTIONS OF METAL CHLORIDES AND CHLOROMETALLATE SLATS WITH RED PHOSPHORUS 67-11 M14-80313

PHOSPHORUS, SOLUBILITY
CONTRIBUTION TO THE STUDY OF THE CHEMICAL ACTIVITY OF THE ELEMENTS PHOSPHORUS, SULPHUR, SILICON, COPPER AND CHROMIUM IN MOLTEN IRON SOLUTIONS SATURATED WITH CARBON 67-09 M14-77343

PHOSPHORUS, THERMODYNAMICS

STUDY OF ACTIVITY OF PHOSPHORUS IN IRON-PHOSPHORUS MELTS 67-03 M15-65954

PHOSPHORUS, THIN FILMS
EFFECT OF PH VARIATION ON THE MAGNETIC PROPERTIES OF ELECTROLESS COBALT-PHOSPHORUS THIN FILMS 67-07 M12-74123

PHOSPHORUS COMPOUNDS, CHEMICAL ANALYSIS
THE ABSOLUTE DETERMINATION OF THE THICKNESS AND COMPOSITION OF SURFACE LAYERS WITH A MICROPROBE 67-02 M19-59087

PHOSPHORUS COMPOUNDS, CRYSTAL LATTICES
THE CRYSTALLINE PERFECTION OF MELT-GROWN GAAS SUBSTRATES AND GA --AS, P-- EPITAXIAL DEPOSITS 67-06 M14-71422

PHOSPHORUS COMPOUNDS, QUATERNARY SYSTEMS
STUDY OF THE LIQUIDUS TEMPERATURES OF THE SYSTEM CAO-P2O-SIO2-IRON OXIDE. PT. 1. 15 PER CENT FEO LEVEL 67-08 M13-76225

PHOTO OXIDATION
SEE OXIDATION
PHOTOCHEMISTRY

PHOTOABSORPTION
SEE ELECTROMAGNETIC ABSORPTION

PHOTOCELLS
SEE PHOTOELECTRIC CELLS

PHOTOCHEMISTRY
LOW-TEMPERATURE PHOTO-CHEMICAL REACTIONS IN IN4S5 SINGLE CRYSTALS 67-06 M14-71756

PHOTOCONDUCTIVITY
OSCILLATORY PHOTOCONDUCTIVITY IN INSB 67-01 M15-58756
PHOTOCONDUCTIVITY OF ANISOTROPICALLY DEFORMED INTRINSIC GERMANIUM 67-02 M15-61522
PHOTOCURRENT AND THERMAL RELEASE TIME STUDIES OF URANIUM DIOXIDE 67-02 M16-60512
OPTICAL PROPERTIES OF EUROPIUM AND BARIUM 67-03 M15-65746
PHOTOCONDUCTIVITY DECAY OF ZNO CRYSTALS IN OXYGEN 67-03 M16-65749
MAGNETO-OPTICAL MEASUREMENTS AS A SOURCE OF INFORMATION ON THE ELECTRON STRUCTURE OF FERROMAGNETIC NICKEL 67-04 M15-67911
OPTICAL ABSORPTION, PHOTOCONDUCTIVITY, SPONTANEOUS AND STIMULATED LIGHT EMISSION INVOLVING EXCITON STATES IN CDTE 67-04 M16-66749
MAGNETO-OPTICAL STUDY OF HYDROGENIC DONOR IMPURITY STATES IN INSB 67-04 M16-66758
HIGH FIELD MOBILITY OF PHOTOELECTRONS IN CDS 67-04 M16-66773
CURRENT SATURATION AND INSTABILITIES IN CDS CRYSTALS 67-04 M16-66775
PHOTOCONDUCTION AND TRAPPING IN SPUTTERED TANTALUM OXIDE FILMS 67-05 M15-68283
QUENCHING OF PHOTOCONDUCTIVITY IN SILICON 67-05 M16-68575
OSCILLATORY PHOTOCONDUCTIVITY OF CADMIUM TELLURIDE AND ITS RELATIONSHIP TO EXCITON ABSORPTION 67-05 M16-69381
EFFECTS OF GERMANIUM AND TIN ON THE PHOTOELECTRIC PROPERTIES OF ARSENIC SELENIDE 67-05 M16-69386
PHOTOCONDUCTIVITY QUENCHING SPECTRA OF A THIN SAMPLE OF GERMANIUM AT 77 C 67-05 M16-69389
INFLUENCE OF SURFACE BARRIERS ON THE PHOTOCONDUCTIVITY OF GERMANIUM 67-05 M16-69393
LUX-AMPERE CHARACTERISTICS OF THE ANOMALOUS PHOTOCONDUCTIVITY OF AMORPHOUS SELENIUM UNDER CONTINUOUS ILLUMINATION 67-06 M15-70523
CONCERNING NEGATIVE PHOTOCONDUCTIVITY IN GERMANIUM 67-06 M15-70527
TRANSIENT PHOTOCONDUCTIVITY IN AMORPHOUS SELENIUM FILMS 67-06 M15-71139
PHOTOCONDUCTIVE AND ELECTRICAL PROPERTIES OF UNCOMPENSATED BERYLLIUM-DOPED GERMANIUM 67-06 M15-71142
ELECTRICAL AND OPTICAL PROPERTIES OF AMORPHOUS GERMANIUM 67-06 M16-69921
P-TYPE PHOTOELECTRIC BEHAVIOR IN CDS DOMINATED BY A HIGH-RESISTIVITY REGION NEAR THE ANODE 67-06 M16-69922
THE EFFECT OF THE SURFACE ON THE ELECTRICAL CONDUCTIVITY OF THIN INSB LAYERS 67-06 M16-69959
IMPURITY PHOTOCONDUCTIVITY SPECTRA OF P-TYPE GERMANIUM WITH GA, HG, AU AND NI IMPURITIES 67-06 M16-70050
IMPURITY PHOTOCONDUCTIVITY OF GERMANIUM DOPED WITH ANTIMONY, ARSENIC, BORON, OR INDIUM 67-06 M16-71757
LIFETIME IN SINGLE CRYSTALS OF GALLIUM ARSENIDE 67-06 M16-71830
INFLUENCE OF FAST-ELECTRON BOMBARDMENT ON THE SPECTRA OF PHOTOCONDUCTIVITY OF GAAS CRYSTALS GROWN IN AN OXYGEN ATMOSPHERE 67-06 M16-71918
MOBILITY OF MINORITY CARRIERS IN DEGENERATE GALLIUM ARSENIDE 67-06 M16-71926
PHOTORESPONSE STUDIES OF VAPOR-DEPOSITED MO-SI SYSTEMS 67-07 M15-72631
PHOTOCONDUCTIVE AND PHOTO-HALL MEASUREMENTS ON HIGH-RESISTIVITY GAP 67-07 M15-72632
NEGATIVE PHOTOCONDUCTIVITY IN GOLD-DOPED SILICON 67-07 M15-72662
EXTRINSIC PHOTOCONDUCTIVITY IN GE CAUSED BY DISLOCATIONS 67-07 M16-72954
PHOTOCONDUCTIVE EFFECT OF ZNO-CU CRYSTALS 67-07 M16-73324
CARRIER RECOMBINATION IN INAS. 67-07 M16-74059
FREEZE-OUT EFFECTS, HOT ELECTRON EFFECTS, AND SUBMILLIMETER PHOTOCONDUCTIVITY IN INSB 67-07 M16-74206
OPTICAL AND PHOTOCONDUCTIVE PHENOMENA IN CUPROUS OXIDE 67-08 M15-75228
METALLURGY AND PHYSICAL PROPERTIES OF MERCURY-DOPED GERMANIUM RELATED TO THE PERFORMANCES OF THE INFRARED DETECTOR 67-08 M16-74599
SLOW PHOTOCONDUCTIVITY RELAXATION IN OXYGEN-DOPED N-GERMANIUM 67-08 M16-75131
PRODUCTION, STRUCTURE AND CERTAIN PHOTOELECTRIC PROPERTIES OF SINGLE- AND MULTI-LAYER SINGLE-CRYSTAL AIIBVI AND AIVBVI CHALCOGENIDE FILMS 67-09 M16-76761
PHOTO AND THERMAL EFFECTS IN COMPENSATED ZINC-DOPED GERMANIUM 67-10 M15-79164
EXTRINSIC PHOTOCONDUCTIVITY OF GERMANIUM DOPED WITH ANTIMONY, ARSENIC, BORON, OR INDIUM 67-10 M15-79451
CARRIER RECOMBINATION IN NICKEL-DOPED GERMANIUM FROM LIFETIME AND NOISE MEASUREMENTS 67-10 M16-79010
PHOTOCONDUCTIVITY IN BORON AT LOW TEMPERATURE 67-10 M16-79027
PHOTOCONDUCTIVE DECAY IN N-TYPE POLYCRYSTALLINE FILMS OF INDIUM ARSENIDE 67-10 M16-79170
PHOTOCONDUCTIVITY IN GARNETS 67-10 M16-79366
OPTICAL PROPERTIES OF THE MIXED AMORPHOUS SYSTEM, AS2SXSE3-X 67-10 M16-79369
SATURATED PHOTOCURRENTS IN CD4GES6 67-11 M15-81676
PHOTOCONDUCTIVITY OF ZNSE THIN FILMS 67-12 M15-82017

PHOTOCONDUCTIVITY, ALLOYING EFFECTS
PHOTOELECTRIC PROPERTIES OF SILICON DOPED WITH COPPER, TUNGSTEN AND PLATINUM 67-05 M16-69380

PHOTOCONDUCTIVITY, ATMOSPHERES
THE EFFECT OF VARIATIONS IN THE CONCENTRATION OF ATMOSPHERIC CONSTITUENTS ON THE ELECTRICAL CONDUCTIVITY OF ZINC OXIDE 67-05 M15-68276

PHOTOCONDUCTIVITY, HEATING EFFECTS
PREPARATION OF CDS AND CD --S, SE-- EVAPORATED LAYERS AND THEIR PHOTOELECTRIC PROPERTIES 67-05 M15-69881

PHOTOCONDUCTIVITY, IMPURITY EFFECTS
INFRARED QUENCHING OF THE IMPURITY PHOTOCONDUCTIVITY IN CADMIUM SULFIDE 67-06 M15-70522
PHOTOCONDUCTIVITY OF ANTIMONY-DOPED GERMANIUM IN THE FAR-INFRARED REGION 67-09 M16-76371
PHOTOCONDUCTIVITY OF CHROMIUM-DOPED GALLIUM ARSENIDE 67-12 M15-82363

PHOTOCONDUCTIVITY, PRESSURE EFFECTS
SELECTIVE INSB PHOTOCELL WITH CONTROLLABLE SPECTRAL CHARACTERISTICS 67-10 M16-79455

PHOTOCONDUCTIVITY, RADIATION EFFECTS
LOW-TEMPERATURE PHOTOCONDUCTIVITY OF SELENIUM SUBJECTED TO ULTRAVIOLET AND X-RADIATION 67-11 M15-81050

PHOTOCONDUCTORS, ELECTRICAL PROPERTIES
A CALCULATION OF NOISE IN SENSITIZED GAAS 67-11 M15-80937
MEASUREMENTS OF NOISE IN SENSITIZED GAAS 67-11 M15-80938

PHOTOCONDUCTORS, EXCITATION
OPTICALLY AND THERMALLY EXCITED CURRENT CARRIER TRANSITIONS WITH SURFACE TRAPS IN GAAS 67-05 M16-68339

PHOTOCONDUCTORS, THIN FILMS
PREPARATION AND PROPERTIES OF VACUUM DEPOSITED CDS AND CDSE FILMS 67-02 M16-61121
PHOTOCURRENT
SEE PHOTOELECTRIC EFFECTS
PHOTODECOMPOSITION
SEE DECOMPOSITION REACTIONS
PHOTOCHEMISTRY
PHOTODIELECTRICITY
SEE PHOTOELECTRIC EFFECTS
PHOTODISSOCIATION
SEE DISSOCIATION
PHOTOCHEMISTRY
PHOTOELASTICITY
STUDY OF THE PROCESSES OF PLASTIC FORMING USING THE MOIRE METHOD 67-06 M19-70278
PHOTOELASTIC SIMULATION OF MOLDS 67-08 M06-76270
EFFECT OF LIGHT ON THE NORMAL ELASTIC MODULUS OF GERMANIUM AND SILICON 67-09 M17-77065
DISTRIBUTION OF PLASTIC DEFORMATION IN POLYCRYSTALLINE METALS 67-09 M17-77279
PHOTOELASTIC MODELLING OF INGOT MOULDS 67-10 M06-79263
NEW ACCURATE PROCEDURE FOR SINGLE SHEAR TESTING OF METALS 67-12 M17-81852
STRESS FIELD INTENSITY FACTORS FOR PROPAGATING BRITTLE CRACKS 67-12 M17-83486
PHOTOELECTRIC CELLS, RADIATION EFFECTS
AN ANALYSIS OF NON-UNIFORM PROTON IRRADIATION DAMAGE IN SILICON SOLAR CELLS 67-01 M16-57556
PHOTOELECTRIC EFFECTS
SEE ALSO PHOTOCONDUCTIVITY
PHOTOEMISSIVITY
PHOTOVOLTAIC EFFECT
THE EXIT POTENTIAL OF SPHERICAL CU SINGLE CRYSTALS WITH A VIRGIN SURFACE 67-03 M15-65439
CESIUM-ANTIMONY FILMS IN EQUILIBRIUM WITH CESIUM VAPOR 67-03 M16-65891
DIFFUSENESS OF FERROELECTRIC PHASE TRANSITIONS IN SOLID SOLUTIONS OF THE --BAPBCA-- TIO3 SYSTEM 67-05 M16-69392
PHOTOELECTRIC STATES IN SILICON CONTAINING RADIATION DEFECTS 67-06 M16-71759
PHOTOELECTRIC MEASUREMENT OF TUNGSTEN SILICIDE AND N-TYPE SILICON BARRIERS 67-07 M15-72661
OPTICAL PROPERTIES OF METALS 67-10 M15-79101
THE ANISOTROPY OF PHOTOMAGNETIC EFFECTS IN GERMANIUM AND SILICON 67-10 M15-79118
TRAP LEVELS IN GALLIUM ARSENIDE 67-10 M15-79122
RECOMBINATION PROPERTIES OF THE GOLD ACCEPTOR LEVEL IN SILICON USING THE IMPURITY PHOTOVOLTAIC EFFECT 67-10 M16-79279
PHOTOELECTRIC PROPERTIES OF AS2SE3 LAYERS 67-11 M15-80816
ELECTRICAL AND OPTICAL PROPERTIES OF SNO2-SI HETEROJUNCTIONS 67-11 M15-80823
STRUCTURE AND ELECTRICAL PROPERTIES OF THIN OXIDE FILM DIODE WITH SPUTTERED TITANIUM BASE 67-11 M15-80824
SATURATED PHOTOCURRENTS IN CD4GES6 67-11 M15-81676
KINETICS OF OPTICAL CHARGE EXCHANGE IN COPPER-DOPED CADMIUM SULPHIDE SINGLE CRYSTALS 67-11 M15-81687
PREPARATION, STRUCTURE AND PHOTOELECTRIC PROPERTIES OF CDS, CDS-CDSE AND CDSE SINGLE-CRYSTAL FILMS 67-12 M16-83356
PHOTOELECTRIC PROPERTIES
SEE PHOTOELECTRIC EFFECTS
PHOTOELECTRICITY
SEE PHOTOELECTRIC EFFECTS
PHOTOELECTRONS, PHYSICAL PROPERTIES
TRANSIENT MAGNETORESISTANCE OF PHOTOELECTRONS IN CADMIUM SULFIDE 67-04 M16-67472
PHOTOEMISSIVITY
COPPER DIFFUSED GALLIUM ARSENIDE P-N JUNCTIONS 67-04 M16-66119
SURFACE PROPERTIES OF 2-6 COMPOUNDS 67-05 M15-69818
PHOTOEMISSION STUDY OF THE ELECTRONIC STRUCTURE OF CDTE 67-06 M16-72095
EXPERIMENTAL DETERMINATION OF THE OPTICAL DENSITY OF STATES IN IRON 67-09 M16-77689
PHOTOEMISSION INVESTIGATION OF THE BAND STRUCTURE OF FERROMAGNETIC NI-AL ALLOYS 67-10 M16-78740
PHOTOENGRAVING
AN ELECTRON-OPTICAL MICROMACHINING APPARATUS--AN INSTALLATION FOR THE THERMAL AND NONTHERMAL ELECTRON BEAM MACHINING WITH ELECTRON-OPTICAL REPRODUCTION OF AN INTERNAL PATTERN 67-03 M08-65441
PHOTOETCHING
AN ELECTRON-OPTICAL MICROMACHINING APPARATUS--AN INSTALLATION FOR THE THERMAL AND NONTHERMAL ELECTRON BEAM MACHINING WITH ELECTRON-OPTICAL REPRODUCTION OF AN INTERNAL PATTERN 67-03 M08-65441
SOME UNIQUE APPLICATIONS OF POSITIVE-WORKING PHOTORESISTS IN THE PLATING OF PRINTED WIRING BOARDS 67-09 M12-78054
PHOTOFORMING
THE PHOTOFABRICATION OF THIN METAL PARTS 67-09 M08-76494
PHOTOGRAPHS
SEE PHOTOMICROGRAPHS
PHOTOGRAPHY
SEE ALSO CINEMATOGRAPHY
MICRORADIOGRAPHY
NEUTRON RADIOGRAPHY
RADIOGRAPHY
STEREOPHOTOGRAPHY
USE OF PHOTOGRAPHY FOR ANALYSIS OF DEFORMATION KINETICS OF ARMCO IRON 67-02 M17-60981
DIFFRACTION PHOTOGRAPHY PICKS UP SPEED 67-04 M13-66108
STEEL AND THE CAMERA 67-06 M04-71894
PHOTOGRAPHY, WELDING
MELTING AND RECRYSTALLIZATION OF WELDED SPOT PRODUCED BY PULSATION ARC WELDING 67-06 M11-72306
THE MELTING AND SOLIDIFICATION OF PULSED ARC SPOT WELDS 67-11 M11-81578
PHOTOIONIZATION
SEE IONIZATION
PHOTOCHEMISTRY
PHOTOLUMINESCENCE
SEE ALSO FLUORESCENCE
X RAY FLUORESCENCE
MEASUREMENTS OF THE DECAY OF LUMINESCENCE OF ELECTROLUMINESCENT ZNS PHOSPHORS WITH DIFFERENT EXCITATION 67-03 M16-65440
PHOTOLUMINESCENCE OF EPITAXIAL N-TYPE GAAS AT 20 K 67-03 M16-65747
PHOTOLUMINESCENCE OF CU-DOPED GALLIUM ARSENIDE 67-03 M16-65889
EDGE ABSORPTION AND PHOTOLUMINESCENCE IN DISORDERED GALLIUM ARSENIDE 67-04 M16-66760
PHOTOLUMINESCENCE, IMPURITY EFFECTS
THE OBSERVATION OF DEFECTS IN GAAS USING PHOTOLUMINESCENCE AT 20 K 67-06 M14-71147
PHOTOLUMINESCENCE, TEMPERATURE EFFECTS
TEMPERATURE DEPENDENCE OF PHOTOLUMINESCENCE IN CADMIUM-DOPED EPITAXIAL GAAS 67-10 M16-79161
PHOTOMETERS
SEE INFRARED SPECTROPHOTOMETERS
SPECTROPHOTOMETERS
PHOTOMETRY
SEE ALSO ELECTROPHOTOMETRY
FLAME PHOTOMETRY
THE PHOTOMETRIC DETERMINATION OF SILICON IN IRON AND ITS STRUCTURAL COMPONENTS 67-07 M19-72708
SEPARATION PROCEDURE FOR THE ANALYSIS OF SMALL AMOUNTS OF IRON ALLOYS AND THEIR ISOLATED STRUCTURAL CONSTITUENTS 67-07 M19-73027
ANALYSIS OF SODIUM ALUMINATE SOLUTIONS BY PHOTOMETRIC TITRATION 67-09 M19-77031
PHOTOMICROGRAPHS
COLOR METALLOGRAPHY IN BLACK AND WHITE 67-02 M13-59440
THE NATURE OF THE NEAR FOCUS E. M. IMAGES OF AMORPHOUS SUBSTRATES AND ITS SIGNIFICANCE FOR OBTAINING HIGH RESOLUTION PICTURES 67-04 M13-66155
METALLOGRAPHIC ATLAS OF IRON, STEELS AND CAST IRONS. V. 2. STRUCTURE OF STEELS 67-04 M13-67734
THE RE-EXAMINATION OF A PUBLISHED MICROGRAPH 67-05 M13-68300
THE TAU PHASE IN THE CO-TI-B TERNARY SYSTEM 67-05 M13-68583
TECHNIQUE FOR SELECTED AREA REPLICATION OF SURFACES 67-05 M13-68653
DESEGREGATION AND RESEGREGATION AS OBSERVED BY

HIGH-TEMPERATURE MICROSCOPY 67-05 M14-68587
A NEW IONOGRAPHIC INSTRUMENT--THE SCIP ION 67-12 M13-83516
EXAMINATION OF POLYGONIZATION SUBSTRUCTURES BY X-RAY MICROGRAPHY 67-12 M13-83519

PHOTOMICROGRAPHS, IMPURITY EFFECTS
THE EFFECT OF THE DEGREE OF PURITY ON SOME PROPERTIES OF HIGH-MELTING MATERIALS 67-05 M14-68580

PHOTOMICROGRAPHY
IMAGE CONVERSION IN FIELD-ION MICROSCOPY 67-01 M13-58691
A METALLOGRAPHIC TECHNIQUE FOR LANTHANUM AND CERIUM 67-12 M13-82981

PHOTONS
PHOTON EMISSION FROM AL FOILS BOMBARDED BY NONNORMALLY INCIDENT ELECTRONS 67-11 M16-80655

PHOTOREDUCTION
SEE PHOTOCHEMISTRY
REDUCTION /CHEMICAL/

PHOTOSENSITIVITY
SPECTRAL RESPONSE OF PHOTOSENSITIVITY --SRPS-- IN BORON 67-08 M15-75252

PHOTOVOLTAIC CELLS, ELECTRICAL PROPERTIES
ANNEALING OF PROTON RADIATION DAMAGE IN SILICON SOLAR CELLS 67-05 M16-69093

PHOTOVOLTAIC EFFECT
SURFACE STATES ON THE --0001-- FACES OF CADMIUM SULPHIDE CRYSTALS 67-04 M16-67739
SURFACE PROPERTIES OF 2-6 COMPOUNDS 67-05 M15-69818
PHOTOVOLTAIC EFFECTS OBSERVED WITH THIN FILMS OF ZINC SULPHIDE 67-07 M15-73633
PHOTOVOLTAIC PROPERTIES OF CDS-P-TYPE SI HETEROJUNCTION CELLS 67-11 M15-80825

PHYSICAL CONSTANTS
SEE PHYSICAL PROPERTIES

PHYSICAL METALLURGY
SOME COMMENTS ON THE PHYSICAL CHEMISTRY OF METALS 67-04 M14-67544
ALUMINUM. V. 1. PROPERTIES, PHYSICAL METALLURGY AND PHASE DIAGRAMS. V. 2. DESIGN AND APPLICATIONS. V. 3. FABRICATION AND FINISHING 67-08 M01-74801

PHYSICAL PROPERTIES
PROPERTIES OF PURE ALUMINUM 67-08 M01-74802
CONTAINMENT OF LIQUID METALS AT HIGH TEMPERATURES AND THE ESTIMATION OF THEIR PROPERTIES 67-09 M15-77504
METALS REFERENCE BOOK. V. 1 67-10 M01-79102

PHYSICAL PROPERTIES, ALLOYING EFFECTS
ELECTRON CONCENTRATION AND METALLIC PROPERTIES 67-03 M17-65339

PHYSICAL PROPERTIES, STRESS EFFECTS
THE STRUCTURAL APPLICATION OF BERYLLIUM TO THE GEMINI SYSTEM 67-04 M15-67898

PI BONDS
SEE CHEMICAL BONDS

PIANO WIRE, MECHANICAL PROPERTIES
HIGH-TEMPERATURE SPRINGS 67-06 M17-71231

PICKLING
NEW PUSH FOR HCL IN PICKLING 67-01 M12-57949
PICKLING ACIDS AND INHIBITORS 67-02 M12-59004
MACHINE UNIT FOR CONTINUOUS STRAND PICKLING AND SURFACE TREATMENT OF WIRE RODS IN HELICAL MOVEMENT 67-02 M12-59006
EFFECTIVENESS OF ORGANIC COMPOUNDS AS PICKLING INHIBITORS IN HYDROCHLORIC AND SULFURIC ACID 67-02 M12-59043
A COMPARISON OF VARIOUS METHODS OF DETERMINING METAL SCALING LOSSES 67-02 M18-61757
AUTOMATIC PICKLING OF WIRE 67-04 M12-66678
THE DRAWING OF COPPER WIRE. PT. 3. PICKLING AND SCALPING 67-04 M12-66712
80-IN. HCL PICKLING LINE AND REGENERATION PLANT AT THE STEEL CO. OF CANADA 67-04 M12-68105
INTERNAL OXIDATION OF 3 PER CENT SI STEEL 67-04 M18-67284
WATER SOLUBLE SHALE PHENOLS AS CORROSION INHIBITORS FOR CARBON STEEL 67-04 M18-67293
INVESTIGATION OF THE PICKLING OF KH18N10T STEEL SHEETS IN RELATION TO CONDITIONS OF QUENCH HEATING 67-05 M12-68333
MILD BATH FOR STEEL 67-05 M12-68604
I/USALT BATH DESCALING AND PICKLING OF NICKEL ALLOY WIRE 67-05 M12-68671
AUTOMATIC PICKLING OF BRASS AND COPPER WIRE 67-05 M12-68808
PICKLING OF SHEETS FOR SUBSEQUENT LACQUERING, BASE ENAMELING AND DIRECT-WIRE ENAMELING 67-05 M12-69341
IMPROVED EFFICIENCY IN ACID PICKLING 67-05 M12-69433
INVESTIGATION OF PICKLING OF KH18N9T STAINLESS STEEL IN THE MIXTURE OF H2SO4, HCL AND HNO3 ACIDS 67-05 M12-69834
INFLUENCE OF THE PICKLING ADDITIONS ON FISH SCALE DEFECTS OF ENAMEL COATINGS 67-05 M12-69835
PICKLING INHIBITORS IN H2SO4--TESTS WITH INORGANIC HALIDES AND THEIR MIXTURES 67-05 M18-68796
HORIZONTAL PICKLING LINE DESIGNED FOR HYDROCHLORIC ACID 67-06 M12-70842
FACTORS INFLUENCING THE PICKLING TIME REQUIRED FOR HOT ROLLED STEEL STRIP 67-06 M12-71384
CHEMICAL TREATMENT OF STAINLESS STEEL TUBES FOR PREVENTION OF PITTING CORROSION 67-06 M18-71264
EFFECT OF ADDITIONS OF IRON SULFATE AND INHIBITORS ON THE PROGRESS OF PICKLING IN SULFURIC ACID BATHS 67-07 M12-72724
INVESTIGATING THE PICKLING OF KH18N10T STEEL PLATE IN RELATION TO CONDITIONS UNDER WHICH PLATES ARE HEATED FOR QUENCHING 67-07 M12-72861
PROGRESS IN THE FIELD OF PICKLING AND THE TREATMENT OF PICKLE LIQUORS. PT. 1 67-07 M12-73111
OUTSIZE BALL BLANKET CURES TRAPPING PROBLEM 67-08 M12-74459
PICKLING TITANIUM ALLOYS BY THE SULFURIC ACID METHOD 67-08 M12-75099
CHEMICAL TREATMENT OF STAINLESS STEEL TUBES TO ELIMINATE RUSTY SPOTS 67-08 M18-75733
COAL TAR BASE FRACTIONS AS PICKLING INHIBITORS IN HYDROCHLORIC AND SULPHURIC ACID SOLUTIONS 67-09 M04-77482
INVESTIGATION OF THE EFFECT OF CHEMICAL TREATMENT OF TITANIUM ALLOY TUBES ON THEIR MECHANICAL PROPERTIES 67-09 M12-76437
ACID PICKLING PLANT 67-09 M12-77644
CHEMICAL METHODS OF SURFACE PREPARATION 67-09 M12-77645
EFFECT OF A MECHANICAL ACTIVATION OF THE SURFACE OF STEEL SHEETS ON THEIR CHEMICAL REACTIVITY 67-09 M14-77852
EFFECT OF SALT ADDITIONS ON SULFURIC ACID PICKLING OF STAINLESS STEELS 67-10 M12-78436
INFLUENCE OF OXIDANTS ON DISSOLUTION OF LOW-CARBON STEELS IN SULFURIC ACID AND ON QUALITY OF ENAMELED COATINGS 67-10 M12-78535
THE CLEANING AND DEGREASING OF METALS WITH ORGANIC SOLVENTS 67-10 M12-79382
THE CONTINUOUS ULTRASONIC CLEANING OF WIRE AND STRIP 67-10 M12-79958
EFFECT OF INCREASED COIL WEIGHTS ON THE PROPERTIES OF WIRE ROD AND ON ITS PREPARATION FOR DRAWING 67-11 M07-80364
PICKLING TIMES FOR HOT ROLLED STEEL STRIP IN HYDROCHLORIC AND SULPHURIC ACIDS 67-11 M07-80718
REHEATING OF STEELS IN FORGE FURNACES WITH TURNING MECHANISM 67-11 M10-80499
THE EVALUATION OF SURFACE CONDITIONS BY THE ACID METHOD 67-11 M12-80500
INFLUENCE OF ANNEALING CONDITIONS OF COLD ROLLED STAINLESS STEEL --18-8-- IN OXIDIZING ATMOSPHERE UPON THE SURFACE CONTENT OF FE, CR, NI AND MN, AND UPON THE SCOURABILITY OF THE OXIDE 67-11 M18-80358
EFFECT OF KATAPIN K ON THE CORROSION BEHAVIOR OF CERTAIN METALS AND ALLOYS IN SULFURIC ACID 67-11 M18-81282
PICKLING OF HOT ROLLED STEEL WITH HYDROCHLORIC ACID AND THE TOTAL REGENERATION OF PICKLING BATHS WITH HYDROCHLORIC ACID AS WELL AS THE PART PLAYED BY INHIBITORS 67-12 M07-82295
INVESTIGATION OF THE PICKLING OF SCALE-COATED STEEL KH18N9T IN A MIXTURE OF SULFURIC, HYDROCHLORIC, AND NITRIC ACIDS 67-12 M12-82267
INFLUENCE OF ETCHING ADDITIVES ON FISH SCALE FLAWS IN ENAMEL COATING 67-12 M12-82268
PICKLING OF COPPER AND BRASS 67-12 M12-82655
SODIUM GLUCONATE IN THE PREPARATION OF CLEANING AND PICKLING BATHS 67-12 M12-83222
PICKLING OF COPPER AND BATH REGENERATION BY ELECTROLYSIS 67-12 M12-83384
EFFECT OF SALT ADDITIONS ON PICKLING OF STAINLESS STEELS IN SULPHURIC ACID 67-12 M12-83434

PICKLING
SODIUM GLUCONATE IN THE PREPARATION OF DEGREASING AND PICKLING BATHS 67-12 M12-83585
ABSORPTION OF HYDROGEN BY STEEL DURING PICKLING AND ELECTROPLATING 67-12 M17-82427
PICKLING, APPARATUS
USING EPOXY MATERIALS FOR PROTECTIVE COATINGS OF PICKLING BATHS 67-06 M12-71265
PICKLING, AUTOMATION
AUTOMATIC PICKLING OF BRASS AND COPPER WIRE 67-03 M12-65121
AUTOMATICALLY CONTROLLED EQUIPMENT FOR THE PICKLING OF TUBES 67-07 M12-72565
AUTOMATION IN PICKLING 67-11 M12-80297
PICKLING, BATHS
DETERMINATION OF THE EFFECTIVENESS OF INHIBITORS IN PICKLING SOLUTIONS 67-07 M12-72558
METHOD OF MEASURING THE EFFECTIVENESS OF INHIBITORS FOR CONTINUOUS PICKLING PLANT BATHS 67-07 M12-72714
PICKLING, REACTIONS /CHEMICAL/
EFFECTIVENESS OF NITROETHANE AS A HYDROGEN DIFFUSION INHIBITOR 67-01 M14-58515
PIERCING
SEE ALSO HOT PIERCING
PLUG ROLLING
A NEW DEVICE FOR PIERCING LARGE UPSET FORGINGS ON STEAM-HYDRAULIC PRESSES 67-01 M07-57249
BASIS OF DIFFERENTIATED EXTRUSION 67-02 M07-59402
SLIP IN CROSS-HELICAL ROLLING. PT. 1 67-02 M07-60065
A COMBINED DEVICE FOR STUDYING FORCES ACTING ON ROLLERS OF A PIERCING MILL 67-02 M07-61213
IMPROVEMENT IN TECHNOLOGY FOR PRODUCING HOLLOW WATER-COOLED MANDRELS OF A PIERCING MILL 67-02 M07-61959
COLD STAMPING OF THIN SHEET STEEL AND NONFERROUS METALS 67-02 M08-60679
DETERMINING RADIUS OF BILLET AND ACTUAL ANGLES OF GRADIENT OF ITS FLANK FACE IN HELICAL PIERCING 67-04 M07-66085
RELATIONSHIP BETWEEN PARAMETERS OF PIERCING OPERATION AND QUALITY OF INITIAL TUBE BILLET 67-04 M07-66214
STUDYING THE WORKABILITY OF STEEL IN OBLIQUE ROLLING TO PROVIDE RESULTS IN TERMS OF PIERCING 67-04 M07-67450
IMPROVING THE MANUFACTURE OF HOLLOW WATER-COOLED MANDRELS FOR THE SMALL AUTOMATIC PIERCING BENCH 67-04 M07-67780
A NEW TUBE-PIERCING TECHNIQUE 67-05 M07-68633
THREE-ROLL PIERCER IMPROVES TUBE QUALITY 67-05 M07-68935
THREE-ROLL PIERCER DEVELOPED BY TI 67-05 M07-69435
NEW TUBEMAKING TECHNIQUE--UK WORLD LEAD 67-06 M07-70021
APPARATUS FOR TUBE ROLLING 67-06 M07-70149
THREE ROLL PIERCER FOR BETTER TUBES 67-07 M07-73127
MANUFACTURING OF HOLLOW FORGINGS FROM INGOTS FREE OF SHRINKAGE DEFECTS 67-07 M07-73440
PRODUCTION OF GRADE EI711 STEEL TUBES 67-07 M07-74080
THREE ROLLS IMPROVE QUALITY AND LOWER COST OF SEAMLESS TUBING 67-07 M07-74092
KINEMATIC AND FORCE PARAMETERS OF HELICAL CROSS ROLLING UNDER VARIOUS CONDITIONS OF DEFORMATION 67-08 M07-75015
AN ATTEMPT TO REDUCE PIERCING PRESSURE WITH TRAPPED LUBRICANT 67-08 M07-75575
PRESSWORK--PRESS TOOLS FOR PRODUCING COMPONENTS FOR FLUID TRANSMISSIONS 67-08 M08-75560
COUNTER-PIERCING OF BILLETS DURING DEFORMATION IN DOUBLE-SLOT DIES 67-09 M07-77363
THE EVOLUTION OF THE SYSTEMS CONCEPT IN THE PERFORATING AND NOTCHING OF SHEET METAL 67-10 M08-79538
IMPROVING TUBE QUALITY BY CORRECT GROOVING OF THE PIERCING MILL TOOL 67-12 M07-81873
PIERCE FORGING ENTERS ALUMINUM FORMING LINEUP 67-12 M07-82042
TWO VARIANTS OF DIE COUNTERSINKING OF HOLES 67-12 M08-82069
PIEZOELECTRIC CRYSTALS
DENSITY OF THIN EVAPORATED ALUMINUM FILMS 67-08 M19-74714
PIEZOELECTRIC EFFECT
SEE PIEZOELECTRICITY
PIEZOELECTRICITY
PIEZOELECTRIC, ELASTIC, AND DIELECTRIC CONSTANTS OF HEXAGONAL ZINC SULFIDE 67-02 M15-61657
ULTRASONIC AMPLIFICATION AND NONOHMIC BEHAVIOR IN TELLURIUM 67-04 M16-66777
PIEZ/-HALL EFFECT IN N-TYPE GERMANIUM 67-05 M15-69771
FREE CARRIER PIEZOABSORPTION IN N-TYPE GERMANIUM 67-08 M16-75005
DIRECT EDGE PIEZOREFLECTANCE IN GE AND GAAS 67-08 M16-75007
THE PIEZO EFFECT AND ITS TECHNICAL APPLICATIONS 67-09 M15-77706
PIEZOELECTRIC EFFECTS IN SELENIUM RECTIFIERS 67-10 M15-79123
MAGNETIC FIELD DEPENDENCE OF CURRENT OSCILLATIONS IN PIEZOELECTRIC SEMICONDUCTORS 67-11 M15-80604
PIEZORESISTANCE EFFECT IN P-TYPE PBTE 67-11 M16-81486
PIEZOMAGNETISM
PIEZOMAGNETIC EFFECT IN ALPHA-FE2O3 67-07 M15-73703
PIEZORESISTANCE
SEE ELECTRICAL RESISTANCE
PIEZOELECTRICITY
PIG INGOTS
SEE PIGS
PIG IRON
WORKING OUT THE PIG-IRON CASTING SCHEDULE WITH THE AID OF A COMPUTER 67-04 M04-67682
PIG IRON, ALLOYING ADDITIVE
INFLUENCE OF A PIG IRON CONTAINING VANADIUM AND TITANIUM ON THE SURFACE HARDENABILITY OF CAST IRON WITH FLAKE-TYPE GRAPHITE 67-04 M17-66182
EFFECTS OF PIG IRON AND ALLOY ELEMENTS UPON THE AS-CAST MICROSTRUCTURE AND MECHANICAL PROPERTIES OF SPHEROIDAL GRAPHITE CAST IRON 67-08 M06-74621
PIG IRON, CHEMICAL ANALYSIS
THE SPECTROGRAPHIC ANALYSIS OF MOLTEN STEEL.. A REVIEW 67-01 M04-57205
PIG IRON, CRYSTALLIZATION
KINETICS OF ISOTHERMAL CRYSTALLIZATION OF CHROMIUM PIG IRONS 67-04 M14-66007
KINETICS OF ISOTHERMAL CRYSTALLIZATION OF CHROMIUM ALLOYED CAST IRONS 67-10 M14-79668
PIG IRON, DESULFURIZING
DESULFURIZATION OF IRON IN THE BLAST FURNACE HEARTH WHEN OPERATING WITH LOW-SLAG YIELD 67-01 M04-57173
DESULFURIZATION OF PIG IRON OUTSIDE THE BLAST FURNACE 67-05 M04-69066
PIG IRON, FOUNDRY PRACTICE
REMELTING PIG IRON 67-01 M06-58664
PIG IRON, HEAT TREATMENT
SURFACE ATTACK IN CARBONITRIDED INGOT IRON AND AISI 8620 STEEL 67-11 M10-80519
PIG IRON, MELTING
IMPROVEMENT IN THE PREPARATION OF THE CHARGE OF OPENHEARTH MELTS DURING CONVERSION OF PHOSPHOROUS CAST IRON 67-01 M04-57133
EFFECT OF OXYGEN INJECTION ON THE GRAPHITIZATION AND PROPERTIES OF MALLEABLE CAST IRON 67-02 M17-61913
MATERIAL AND THERMAL BALANCE OF OXYGEN CONVERTERS 67-05 M04-68460
ELECTRIC SMELTING OF PIG IRON FROM CHOKODAM-BULAK ORES 67-06 M04-71102
ON THE MELTING RATES OF SCRAP AND COLD PIG IRON IN THE BASIC OXYGEN LD PROCESS 67-06 M04-72382
USE OF COLD PIG IRON IN THE BASIC OXYGEN LD FURNACE 67-07 M04-72435
FUNDAMENTAL CONDITIONS FOR THE PRODUCTION OF ALLOY STEELS IN THE BASIC OXYGEN LD FURNACE. PT. 1. THE PRODUCTION OF ALLOY STEELS IN A BASIC OXYGEN FURNACE 67-07 M04-72567
CHARGE BALANCE AND HEAT BALANCE OF THE FURNACE FOR MELTING TITANIUM SLAGS 67-08 M03-76243
MANGANESE LOSS IN CUPOLA MELTING 67-08 M06-74542
PIG IRON, MIXING
STUDY ON HOMOGENEITY OF PIG IRON IN MIXER-- RADIOISOTROPE TRACER TECHNIQUE 67-02 M04-60165
PRETREATMENT OF IRON IN THE MIXER AND ITS USE TO MAKE STEEL IN OPENHEARTH FURNACES 67-04 M04-67094

PIG IRON, PHASE TRANSFORMATIONS
DILATOMETRIC METHOD OF INVESTIGATING FERRITE FORMATION IN PIG IRON CONTAINING SPHEROIDAL GRAPHITE 67-06 M14-70200
PIG IRON, PHYSICAL PROPERTIES
DETERMINING THE INTERFACIAL TENSION OF LIQUID IRON ON A BOUNDARY WITH COKE 67-11 M15-81666
PIG IRON, PRODUCTION
BLAST FURNACE MELTING AND PRODUCTION OF FLUXED SINTER, CONTAINING OVER 61 PER CENT IRON 67-02 M04-61861
PIG IRON, REACTIONS /CHEMICAL/
ON DESULFURIZATION OF PIG IRON FOR STEEL MANUFACTURE IN THE REVERSIBLE SHAKING LADLE --DM CONVERTER-- AND PRODUCTION OF LOW SULFUR STEELS 67-01 M04-58596
REACTION KINETICS IN THE BLAST FURNACE 67-02 M04-60265
REVERSIBLE SHAKING LADLE --D-M CONVERTER-- 67-02 M04-60619
DESULFURIZING PIG IRON VIA SOLID SLAG IN VACUUM 67-04 M04-66009
KINETICS OF SILICA REDUCTION BY CARBON-SATURATED IRON. PT. 2. REDUCTION OF SOLID SILICA BY CARBON IN LIQUID IRON 67-06 M04-70811
REDUCTION OF SILICON FROM OXIDE MELTS BY THE CARBON PRESENT IN PIG IRON 67-11 M04-81642
PIG IRON, REFINING
PRODUCTION OF COMMERCIALLY PURE IRON FROM VACUUM DESULFURIZED PIG IRON. PT. 1 67-02 M04-61211
EXPERIENCE WITH CLASSIFIED POWDERED LIME IN BASIC OPENHEARTHS 67-02 M04-62097
DESULFURIZING METAL DROPS IN THE SLAG BY ELECTRICAL CURRENT 67-02 M04-62173
CARBURIZING IRON IN THE CUPOLA 67-02 M06-60076
DESULPHURISATION OF METAL DROPLETS IN SLAG BY PASSING AN ELECTRIC CURRENT 67-04 M04-67170
DESULFURIZING PIG IRON IN THE MIXER 67-05 M04-69684
ALLOY FOR DEOXIDIZING AND ALLOYING 67-06 M04-70730
APPLICATION OF ULTRASONIC VIBRATIONS TO THE REMOVAL OF SULFUR FROM LIQUID PIG IRON 67-07 M04-72725
STUDIES OF THE REMOVAL OF CHROMIUM FROM PIG IRON 67-07 M04-72893
PROCESSING VANADIUM IRON OUTSIDE THE BLAST FURNACE 67-07 M04-73473
DESULPHURIZATION OF HOT METAL IN THE MIXER 67-07 M04-74070
NEW PROCESS FOR IRON PRODUCTION IN A REACTOR 67-08 M04-75398
PRODUCTION OF ALKALINE METALS AND MAGNESIUM BY REFINING LIQUID BASIC PIG IRON OUTSIDE THE BLAST FURNACE 67-09 M03-77048
DEVICE FOR REFINING PIG IRON 67-09 M04-76833
BLOWING HIGH-MANGANESE IRON IN AN OXYGEN CONVERTER WITH WATER COOLING 67-09 M04-76893
ELECTROMAGNETIC STIRRER FOR DESULFURIZING IRON OUTSIDE THE FURNACE 67-09 M04-76988
EFFECT OF BLOWING WITH MOLECULAR NITROGEN ON THE STRUCTURE AND PROPERTIES OF BLAST FURNACE FOUNDRY CAST IRON 67-09 M04-77870
DESULFURIZING IRON BY BLOWING WITH LIME AND OTHER REAGENTS 67-10 M04-78416
THE REFINING OF HIGH-P PIG IRON BY THE OXYGEN CONVERTER PROCESS WITH CLASSIFIED, FINE-GRAINED STEELMAKING LIME 67-10 M04-78787
THE DESULFURIZATION OF PIG IRON BY THE IMMERSION LANCING PROCESS 67-10 M04-79697
INVESTIGATION OF THE REFINING PROCESS IN THE OXYGEN TOP BLOWING METHOD WITH HIGH-PIG IRON WITH VARYING MN CONTENTS 67-10 M04-79698
HOW THE CHEMICAL COMPOSITION OF AN IRON AFFECTS ITS DE-VANADIZATION 67-10 M04-80043
DESULFURIZING PIG IRON 67-11 M04-81016
LADLE DESULFURIZING OF PIG IRON 67-11 M04-81306
NONMETALLIC INCLUSIONS IN METAL DURING THE MELTING PROCESS 67-12 M04-81706
TUYERE DESIGN FOR REFINING MOLTEN IRON 67-12 M04-81788
ENRICHED AIR CONVERSION OF HIGH-MANGANESE IRONS TO A SEMIPRODUCT 67-12 M04-82477
DESULPHURIZATION OF PIG IRON BY INJECTING LIME AND OTHER REAGENTS 67-12 M04-83414
PIG IRON, STEEL MAKING
STEEL STRAIGHT FROM THE BLAST FURNACE 67-02 M04-61108
REFINING STEEL BY ATOMIZATION 67-03 M04-65436
MANUFACTURING MEDIUM CARBON STEEL FROM HIGH PHOSPHORUS PIG IRON IN THE CONVERTER USING POWDERED LIME 67-04 M04-66204
POWDERED OR LUMPY LIME FOR THE BASIC OXYGEN FURNACE 67-04 M04-68045
THE PATTERN OF NITROGEN, SILICON, AND SULFUR ELIMINATION AND THE BEHAVIOR OF TITANIUM DURING THE PRETREATMENT OF OPENHEARTH AND BASIC BESSEMER HOT METALS WITH SODA 67-07 M04-72707
SLAG FORMATION DURING TOP-BLOWING OF OXYGEN WITH CRUSHED LIME ONTO PIG IRON RICH IN PHOSPHORUS 67-07 M04-73284
METALLURGICAL STUDIES ON OXYGEN STEEL MELTS TOP-BLOWN FROM HIGH-PHOSPHORUS PIG IRON 67-09 M04-76503
PIG IRON, TAPPING /METAL/
USE OF A COMPUTER IN PLOTTING A GRAPH OF IRON TAPPINGS 67-02 M04-61863
PIGMENTS
STAINLESS STEEL PAINTS 67-05 M12-68492
FURTHER RESULTS WITH NEW METAL-PIGMENTED PAINTS 67-05 M12-68830
PIGS, MELTING
EFFECT OF REMELTING ALUMINUM ON ITS SODIUM CONTENT 67-02 M03-61290
PILES /NUCLEAR/
SEE NUCLEAR REACTORS
PINHOLES
ANNUAL REVIEW OF UNALLOYED AND ALLOY STEEL CASTINGS. PT. 3 67-05 M07-68522
GAS POROSITY IN STEEL CASTINGS 67-06 M06-72188
STUDY ON SLIGHT LEAKAGE FROM A REACTOR CONTAINMENT VESSEL. REPORT OF THE SUBCOMMITTEE ON SLIGHT LEAKAGE 67-11 M11-80497
PROBLEMS OF POROSITY IN CAST STEEL 67-12 M06-83589
PINNING /DISLOCATION/
SURFACE PINNED LAYER-LIKE FIELD INHOMOGENEITIES IN CDS 67-02 M15-61526
RADIATION-DAMAGE STUDIES USING DISLOCATION PROPERTIES 67-04 M17-67316
THE IRREVERSIBLE AMPLITUDE DEPENDENCE OF PLASTICALLY DEFORMED POLYCRYSTALLINE CU 67-09 M17-77746
DIFFUSIONAL PROPERTIES OF THE STAGE-3 DEFECT IN COPPER. PT. 2. A MODEL FOR DEFECT-DISLOCATION INTERACTIONS 67-11 M14-81081
DISLOCATION PINNING AND TEMPERATURE DEPENDENCE OF INTERNAL FRICTION 67-12 M17-82367
AMPLITUDE-DEPENDENT PART OF THE INTERNAL FRICTION OF ALUMINUM 67-12 M17-82561
THE INFLUENCE OF A FINE DISPERSION ON THE CLEAVAGE STRENGTH OF IRON 67-12 M17-82963
PINNING /DISLOCATION/, RADIATION EFFECTS
INTERSTITIAL LOOPS IN GRAPHITE, THEIR MOTION AND THEIR EFFECT ON ELASTIC MODULUS 67-10 M13-78915
DIFFUSIONAL PROPERTIES OF THE STAGE-3 DEFECT IN COPPER. PT. 1. EXPERIMENTAL RESULTS 67-11 M16-81080
PINS
SEE ALSO WRIST PINS
PINS, COATING
BRONZE COATED LINK PINS--MANDREL MECHANISM MADE STRONGER WITHOUT SACRIFICING EXPANSION RANGE 67-04 M12-67793
PINS, HEAT TREATMENT
DEVELOPMENT AND ADOPTION OF A TECHNOLOGY FOR THE CARBONITRIDING OF TRACTOR PARTS USING UNTREATED NATURAL GAS AND AMMONIA 67-12 M10-83372
PINS, WELDING
CONTACT WELDING OF PINS TO BOILER PIPES 67-06 M11-70393
THE RESISTANCE WELDING OF STUDS TO BOILER TUBES 67-09 M11-78093
PIPE
MANUFACTURE OF WELDED STEEL PIPE 67-06 M07-72139
PIPE, CASTING
CUPOLA OPERATING EXPERIENCE IN A PIPE FOUNDRY 67-08 M06-74543
FOUNDRY FOR CENTRIFUGAL CASTING OF WATER PIPES 67-11 M06-80423
PIPE, FORGING
CLOSED-DIE FORGING IN SCOTLAND 67-09 M07-77377
PIPE, MECHANICAL PROPERTIES
TEARING DURING THE CONTINUOUS CASTING OF IRON PIPES

PIPE

67-12 M04-81881
RESULTS OF BURST TESTS ON NIOBIUM-TREATED HIGH TENSILE STEEL PIPES AT LOW TEMPERATURES
67-12 M17-83507

PIPE, METAL WORKING
BLANKING-OFF REFORMER TUBES DURING PLANT OPERATION
67-06 M07-70540
COLD DRAWING OF STEEL PIPE AND TUBING
67-06 M07-72140
PIPE AND TUBE PROCESSING MACHINERY
67-06 M07-72141
CLOSED-DIE FORGING IN SCOTLAND. PT. 2
67-11 M07-80420

PIPE, NONDESTRUCTIVE TESTING
RECENT DEVELOPMENTS IN THE USE OF ULTRASONIC EQUIPMENT FOR DIMENSIONAL EVALUATION OF DEFECTS
67-10 M19-78862

PIPE, ROLLING
MECHANISM FOR FEEDING PIPES INTO ROLLING MILLS
67-09 M07-76860
ROLLING OF BIMETALLIC STEEL/COPPER PIPES IN CONTINUOUS PIPE AND TUBE MILLS
67-09 M07-76862
ISRAELI FABRICATING FIRM MAKES STEEL PIPE FOR MAJOR WATER-SUPPLY PROJECT 67-11 M07-80719

PIPE, WELDING
APPARATUS FOR CONTINUOUS MAGNETIC RECORDING INSPECTION FOR SMALL-SIZE ELECTRIC RESISTANCE WELDED PIPE 67-01 M19-57908
APPLICATION OF T-1 STEEL IN PRESSURE PIPING
67-02 M11-61577
TEMPERATURE FLUCTUATIONS DURING THE WELDING OF PIPES USING ROTATING TRANSFORMERS
67-11 M11-80509
TECHNOLOGY OF WELDING PIPES TO OKH18N12B STEEL PIPE GRATES 67-11 M11-80556
EFFECT OF WELDING SLAG ON THE CORROSION RESISTANCE OF WELDED JOINTS 67-11 M11-80561
THE FEASIBILITY OF ULTRASONIC INSPECTION OF CONTACT WELDED JOINTS IN BOILER PIPES
67-11 M19-80559

PIPE FITTINGS, CASTING
AUTOMATIC MOULDING SYSTEM EMPLOYED IN A NEW MALLEABLE IRON FOUNDRY 67-10 M06-78389
NEW MALLEABLE IRON FOUNDRY--AUTOMATIC MOULDING AND POURING 67-12 M06-83161

PIPE JOINTS, MECHANICAL PROPERTIES
FATIGUE STRENGTH OF WELDED JOINTS FOR PIPE CONNECTORS 67-04 M17-66462
EXPERIMENTAL AND THEORETICAL STUDIES OF THE EXPANSION JOINTS IN THE PIPING SYSTEMS OF NUCLEAR REACTORS 67-08 M17-75301

PIPE JOINTS, WELDING
AUTOMATIC PLASMA ARC WELDING OF SQUARE BUTT PIPE JOINTS 67-08 M11-76065
EXPLOSIVE WELDING 67-11 M11-81201

PIPELINES
SEE ALSO GAS PIPELINES
PETROLEUM PIPELINES
WATER PIPELINES
THE USE OF SPHEROIDAL GRAPHITE CAST IRON IN THE PRODUCTION OF MEDIUM-PRESSURE GATE VALVES
67-04 M17-67067
U. S. STEEL OFFICIALLY OPENS NEW ERW MILL AT LORAIN WORKS 67-05 M11-68697
AN EXPERIMENTAL PIPELINE OF DUCTILE CAST IRON FOR AN OPERATING PRESSURE OF 64 ATM
67-06 M06-71440
DUCTILE CASE IRON TUBING FOR THE SUPPLY INDUSTRY
67-07 M20-73150

PIPELINES, BRAZING
INVESTIGATION OF THE EFFECT OF THE CONSTRUCTION OF FITTINGS WITH BRAZED JOINTS ON THE FATIGUE STRENGTH OF PIPELINES 67-04 M17-66828

PIPELINES, COATING
LOUISIANA PRODUCTS LINE COATED WITH ZINC SILICATE SYSTEM 67-06 M18-70893
EPOXY COATING REPORT FROM U. K 67-06 M18-70894

PIPELINES, CORROSION
CATHODIC PROTECTION., TECHNIQUE OF CORROSION CONTROL 67-01 M18-58109
CORROSION AND BIOLOGICAL FOULING CONTROL IN RECIRCULATING COOLING SYSTEMS
67-04 M18-66156
GUIDELINES DEVISED FOR CORROSION PROTECTION OF FERROUS PIPELINES UNDERGROUND
67-04 M18-66601
INTERPRETATION OF SURFACE POTENTIALS IN CORROSION TESTS, IN PARTICULAR, STEEL EMBEDDED IN CONCRETE
67-08 M18-74938
INTERFERENCE ON CONCRETE PIPE. TESTS CONDUCTED ON PRESTRESSED REINFORCED PIPE 67-08 M18-75745
ACTUAL STATE OF CORROSIVE FACTORS ACTING ON PIPELINE CLASSIFIED BY ENVIRONMENT AND PREVENTING METHODS THEREOF 67-09 M18-77337
PITTING CORROSION AND ITS PREVENTION ON COATED UNDERGROUND PIPELINES 67-10 M18-79562
SOME OBSERVATIONS ON CATHODIC PROTECTION OF SUBMARINE PIPELINES. PT. 2 67-11 M18-80485
HOW SHELL USES COMPUTER IN CORROSION CONTROL PROGRAM 67-11 M18-80512
BACTERIAL CORROSION OF STEEL WATERPIPES
67-11 M18-81279

PIPELINES, DYNAMIC TESTS
THE TESTING OF METALLIC TUBES FOR PIPELINES CARRYING LIQUIDS UNDER PRESSURE AND METAL VESSELS UNDER INTERNAL HYDRAULIC PRESSURE DURING DYNAMIC HYDRAULIC FATIGUE CONDITIONS
67-10 M19-78646

PIPELINES, MATERIALS
STRUCTURES FOR HIGHWAY, ELECTRICAL, PETROLEUM AND OTHER ENGINEERING APPLICATIONS
67-08 M20-74824

PIPELINES, MECHANICAL PROPERTIES
NEW DEVELOPMENTS IN TUBE TESTING MACHINES
67-01 M17-58117
THE BEHAVIOR OF SUBMERGED ARC WELDED PIPE WHEN SUBJECTED TO REPETITIVE INTERNAL PRESSURE STRESSES 67-01 M17-58284
WELDED MEDIUM TENSILE STEEL IN MURRAY 1 PIPELINE
67-06 M17-71590
THE TESTING OF THE BEHAVIOR OF METAL PIPELINES UNDER VARYING INTERNAL HYDRAULIC PRESSURE
67-07 M17-73149
ELEMENTS OF HYDROSTATIC PIPELINE TESTING
67-08 M17-75554
THE EFFECT OF PRELIMINARY PLASTIC DEFORMATION UPON THE RESISTANCE OF STEEL TO HYDROGEN EMBRITTLEMENT
67-12 M17-82431

PIPELINES, METAL WORKING
THE NEW CSR MILL AT REPUBLIC STEELS YOUNGSTOWN PLANT 67-01 M07-58502

PIPELINES, NONDESTRUCTIVE TESTING
N.D.T. APPLIED TO PIPELINE CONSTRUCTION AND OPERATION IN THE U.S.A. PT. 2
67-01 M19-58582
GAMMA-DEFECTOSCOPE RID-21G FOR QUALITY CONTROL OF WELDED JOINTS IN MAINS 67-04 M19-66876
NONDESTRUCTIVE TESTING IN OIL INDUSTRY
67-04 M19-68025
NDT APPLIED TO PIPELINE CONSTRUCTION AND OPERATION IN THE U.S.A. 67-07 M19-73315
DETECTION BY RADIOGRAPHY AND ULTRASONICS OF LACK FUSION IN WELDS IN PIPELINES MADE BY THE CO2 PROCESS 67-07 M19-73889
NDT APPLIED TO PIPELINE CONSTRUCTION AND OPERATION IN THE U.S.A. P.2 67-07 M19-74026

PIPELINES, PHYSICAL PROPERTIES
ENGINEERING STUDIES SHOW POSSIBILITIES FOR LNG PIPELINE 67-11 M20-80513

PIPELINES, WELDING
SEMIAUTOMATIC WELDING OF PIPELINES
67-04 M11-68014
THE MANUFACTURE AND TESTING OF COLD EXPANDED HIGH TEST LINE PIPE 67-06 M11-70026
HIGH QUALITY CO2 WELDING AT AB KARLSTADS SVETSINDUSTRI, KARLSTAD SWEDEN
67-06 M11-71576
SEMI-AUTOMATIC CO2 WELDING OF PIPELINES
67-07 M11-73888
UNDERWATER WELDING AND CUTTING REPAIRS OF MARINE OIL INSTALLATIONS 67-09 M11-76886
NDT APPLIED TO PIPELINE CONSTRUCTION AND OPERATION IN THE UNITED STATES. PT. 3 67-09 M11-77101
GAS METAL-ARC WELDING APPLIED IN MAINTENANCE
67-12 M11-82816

PIPES
SEE ALSO GAS PIPELINES
PETROLEUM PIPELINES
PIPELINES
STEAM PIPES
WATER PIPELINES
LATEST DEVELOPMENTS IN ZINC-RICH PAINTS
67-03 M12-65627

PIPES, CASTING
IMPROVING THE QUALITY OF CAST IRON PIPES, CAST BY THE SEMICONTINUOUS METHOD
67-01 M06-57464

INVESTIGATION OF THE PIPECASTING PROCESS IN CENTRIFUGAL MACHINES OF A NEW DESIGN 67-02 M06-61008
LIFE OF WATER-COOLED MOULDS IN THE CASTING OF IRON PIPES 67-02 M06-61009
CENTRIFUGAL CASTING OF PIPES FROM SLAG MELTS. 67-02 M06-61227
SOLIDIFICATION OF SEMI-CONTINUOUS CAST IRON PIPES 67-02 M06-61907
CENTRIFUGAL CASTING OF PIPES FROM SLAG MELTS 67-04 M06-68088
IMPROVING THE QUALITY OF SEMICONTINUOUSLY CAST IRON PIPES 67-06 M06-70752
CENTRIFUGAL CASTING OF IRON PIPES INTO METAL MOLDS COATED WITH SAND-RESIN 67-07 M06-74036
PRESHRINKAGE EXPANSION OF IRON IN SEMICONTINUOUS CAST PIPES 67-07 M15-74048

PIPES, COATING
PLASTICS PITCH FOR PIPE PROTECTION 67-04 M12-66502
EPOXY ON UNDERGROUND PIPE SUBVERTS CORROSION 67-08 M12-74363
NOMOGRAPHS FOR LACQUERING THE INTERIOR OF STEEL PIPES 67-08 M12-74931

PIPES, CORROSION
90/10 CUPRONICKELS FOR SEA WATER PIPING 67-02 M18-59417
ADHESIVE TAPES AS SHORT- AND LONG-TERM CORROSION INHIBITORS 67-02 M18-61642
THE DEPENDENCE OF THE CORROSION RESISTANCE OF KH18V10T STEEL PIPES ON THEIR CARBURIZATION 67-04 M18-66829
RELIABILITY OF AUSTENITIC STEELS FOR POWER PLANTS WITH VAPOR PARAMETERS OF 650 C. AND 315 ATM 67-05 M18-69273
ADOPTION OF MODIFIED GERMAN STANDARDS FOR INHIBITION OF PIPE CORROSION IN AUSTRIA 67-07 M18-74004
INTERNATIONAL PROTECTION OF NETWORKS AGAINST CORROSION 67-07 M18-74005

PIPES, CUTTING
THERMAL CUTTING--PROBLEMS, TRENDS AND ACHIEVEMENTS 67-01 M08-58400

PIPES, FORMING
FORM OF THE SURFACES OF THE GROOVE AND OF THE WORKING CONE FOR COLD ROLLED FORMING PIPES 67-06 M08-71399

PIPES, HARDENING
ACCELERATED INDUCTION TEMPERING OF OIL DRILL PIPES FROM 36G2S AND 38KHNM ALLOY STEELS 67-02 M10-60855

PIPES, HEAT TREATMENT
ACCELERATION OF TEMPERING OF 36G2S AND 38KHNM STEEL PIPES BY INDUCTION HEATING 67-08 M10-76113

PIPES, MECHANICAL PROPERTIES
THE BEHAVIOR OF SUBMERGED ARC WELDED PIPE WHEN SUBJECTED TO REPETITIVE INTERNAL PRESSURE STRESSES 67-01 M17-58284
HIGH-TEMPERATURE THERMOMECHANICAL PROCESSING OF DRILLING PIPES MADE FROM 38KHNM ALLOYED STEEL 67-02 M17-62153
CREEP-RUPTURE PROPERTIES OF CENTRIFUGALLY CAST 1 1/4CR-1/2MO ALLOY STEEL PIPE 67-04 M17-66234
MECHANICAL PROPERTIES AND STRUCTURE OF COLD-EXTRUDED, ALUMINUM-ALLOY TUBE AND ROD 67-04 M17-67533
AN EXPERIMENTAL STUDY ON THE TORSIONAL FATIGUE STRENGTH OF HOLLOW SPECIMENS WITH DRILL HOLES 67-05 M17-68463
THE USE OF HIGH-STRENGTH STEEL PLATES IN THE FABRICATION OF FULL PIPES 67-05 M20-69349
FAILURE FROM INTERNAL, LAMINAR DEFECTS 67-08 M17-74504
FAILURE OF STEAM PIPE AT LOCAL DEFECTS 67-08 M17-74509
FAULTS IN DESIGN REVEALED BY SERVICE FAILURES. PT. 2 67-08 M17-75615

PIPES, METAL WORKING
THE NEW CSR MILL AT REPUBLIC STEELS YOUNGSTOWN PLANT 67-01 M07-58502

PIPES, NONDESTRUCTIVE TESTING
ULTRASONIC DEFECTOSCOPY OF SMALL-BORE PIPES 67-04 M19-66839
ON-LINE ULTRASONIC INSPECTION OF COIL EDGES FOR ELECTRIC RESISTANCE WELDED PIPES USING A RESONANCE TRANSMISSION METHOD 67-08 M19-75805

PIPES, POWDER METALLURGY
INVESTIGATION OF SINTERING AND THE EFFECT OF THE ROASTING TEMPERATURE ON THE PHYSICAL AND CHEMICAL PROPERTIES OF ARTICLES MANUFACTURED FROM FERRUGINOUS SLAGS 67-08 M09-75458

PIPES, STANDARDIZATION
STEEL PIPES FOR DISTRICT --LONG DISTANCE-- HEAT INSTALLATIONS 67-08 M19-74930

PIPES, THERMAL STABILITY
STEELS FOR PIPES OF FURNACES FOR PYROLYSIS OF GASEOUS HYDROCARBONS 67-05 M17-68363

PIPES, WELDED JOINTS
STRUCTURE AND PROPERTIES OF LOW-ALLOY STEEL PIPE WELDS 67-01 M14-57389

PIPES, WELDING
WELDING TURNING BUTTS OF THICK-WALLED PIPES WITHOUT BACKING RINGS 67-01 M11-58210
TECHNIQUES APPLIED IN JOINING PIPES FOR PETROLEUM INDUSTRY 67-01 M11-58349
FLASH WELDING OF CONNECTING ENDS TO DRILL TUBES 67-02 M11-60009
SHOCK WAVE SQUEEZES WELD METAL 67-02 M11-61005
WELDING OF SPECIAL AND COMMON STEEL PIPE 67-03 M11-65062
CHARACTERISTICS OF AN APPARATUS FOR WELDING WITH AN ARC, ROTATING IN A MAGNETIC FIELD 67-04 M11-66434
APPARATUS FOR ELECTRON BEAM WELDING OF CIRCUMFERENTIAL SEAMS IN PIPES 67-04 M11-66818
FLUX CUSHION FOR THE AUTOMATIC WELDING OF BRANCH PIPES TO VESSELS 67-04 M11-67360
FATIGUE STRENGTH OF WELDED JOINTS FOR PIPE CONNECTORS 67-04 M17-66462
U. S. STEELS ERW PIPE MILL AT LORAIN IS IN PRODUCTION 67-05 M20-69489
DETERMINATION OF THE BENDING MOMENT DURING ROLL FORMING OF SKELP FOR ELECTRICALLY LINE WELDED LARGE-DIAMETER PIPES 67-06 M08-70748
FAILURES OF HEADER SUPPORT BRACKET ASSEMBLIES 67-06 M11-70538
INDICATOR OF THE POSITION OF THE LONGITUDINAL BUTT JOINT OF A PIPE DURING WELDING IN AN ELECTRIC PIPE-WELDED MACHINE 67-06 M11-70736
APPARATUS FOR WELDING WITH THE ARC ROTATING IN A MAGNETIC FIELD 67-07 M11-72693
MIG AND TIG, BIG AT WORTHINGTON 67-09 M11-76656

PIPES /DEFECTS/
ELECTRICAL MODELING OF THE FORMATION OF A PIPE IN A STEEL INGOT 67-02 M04-61742
CONTINUOUS CASTING 67-04 M03-67910
THE CHARGING OF SEMIKILLED STEEL INGOTS IN THE UPSIDE DOWN POSITION IN THE SOAKING PITS 67-06 M04-72292
SIMULATING THE PROCESS OF PIPE FORMATION IN STEEL CASTINGS 67-09 M06-77871

PISTON RINGS
PISTON RINGS IN AUTOMOBILE ENGINES 67-05 M20-68913

PISTON RINGS, COATING
IMPROVING THE WEAR RESISTANCE OF PISTON RINGS BY PLASMA METALLIZING 67-08 M12-75429

PISTON RINGS, MECHANICAL PROPERTIES
PISTON RING MATERIALS IN FOREIGN AUTO AND TRACTOR ENGINES 67-02 M20-59187
VAPOR LUBRICATION OF CARBON PISTON RINGS 67-03 M17-65597
NEW MATERIALS FOR COMPRESSOR PISTON RINGS 67-09 M17-77956

PISTON RINGS, POWDER METALLURGY
INVESTIGATION OF HEAT CONDUCTIVITY, ELECTRICAL CONDUCTIVITY AND MECHANICAL PROPERTIES OF IRON-BASE SULFIDIZED SINTERED MATERIALS 67-06 M09-72328
SINTERING OF METAL POWDER STRUCTURAL MATERIALS BY INDUCTION HEATING 67-07 M09-72503
POWDER METALLURGY PARTS IN AUTOMOBILE MANUFACTURING 67-08 M09-74318
SINTERING OF CONSTRUCTIONAL POWDER MATERIALS BY HIGH-FREQUENCY CURRENTS 67-11 M09-80889

PISTON RINGS, SINTERING
SINTERING OF CERMET PISTON RINGS BY HIGH-FREQUENCY CURRENTS 67-02 M09-61638

PISTON RINGS, STRUCTURAL MATERIALS
COLD ROLLING RECTANGULAR PROFILES FOR PISTON RINGS FROM HARD-TO-WORK STEEL 67-07 M07-73785
COLD-ROLLING RECTANGULAR SECTIONS FOR PISTON RINGS FROM STEEL HARD TO DEFORM 67-09 M07-76548

PISTON RINGS, SULFURIZATION

PISTON RINGS
USE OF SULFIDIZING PROCESS IN CHEMICAL INDUSTRY 67-01 M17-57605
PISTON RINGS, WEAR
EFFECT OF COOLANTS ON THE MICROSTRUCTURE OF THE SURFACE LAYERS OF CAST-IRON RUBBING PAIRS 67-01 M17-57959
RADIOTRACER METHOD FOR INVESTIGATION OF ANTIWEAR PROPERTIES OF LUBRICATING OIL ADDITIVES UNDER CONDITIONS OF ELECTRO-EROSIVE WEAR 67-08 M17-75544
PISTONS
INVESTIGATION OF ALLOYS FOR PISTONS OF INTERNAL COMBUSTION ENGINES 67-01 M20-57638
PISTONS, CASTING
AUTOMATIC GRAVITY DIECASTING MACHINE FOR ALUMINIUM TRACTOR-ENGINE PISTONS 67-02 M06-61910
A GATING SYSTEM FOR CHILL CASTING A TRACTOR PISTON IN A110V ALLOY 67-08 M06-75198
SOME POSSIBILITIES OF CASTING USING COUNTERPRESSURES 67-12 M06-82610
PISTONS, COATING
STUDY OF VIBROARC BUILDING OF BRONZE ON STEEL 67-01 M12-58027
PISTONS, MACHINING
DIAMOND TOOLS ARE TRADITIONAL FOR MACHINING ALUMINIUM ALLOY ENGINE PISTONS 67-05 M08-68803
PISTONS, WELDING
A WELDED PISTON MADE OF SILUMIN FOR THE D70 DIESEL LOCOMOTIVE 67-08 M11-75409
THE PRODUCTION OF WELDED PARTS FOR MACHINE CONSTRUCTION 67-10 M11-79489
WELDED SILUMIN PISTONS FOR D70 LOCOMOTIVE ENGINES 67-12 M11-82030
PIT FURNACES
SEE SOAKING PITS
PITTING /CORROSION/
THE DIRECT OBSERVATION OF ETCH-PITS AT DISLOCATIONS IN MOLYBDENUM 67-01 M13-57482
INVESTIGATIONS ON THE CORROSION OF ZIRCONIUM IN ELECTROLYTIC SOLUTIONS BY THE USE OF RADIONUCLIDES 67-01 M18-58385
CORROSION BEHAVIOR OF STEEL WELDMENTS 67-01 M18-58394
RESISTANCE TO PITTING OF TYPES 202 AND 321 STEELS TO SULFURIC ACID AND SODIUM CHLORIDE SOLUTIONS 67-01 M18-58482
DISLOCATION ETCH PITS AND PHASE RELATIONSHIPS IN DIMOLYBDENUM CARBIDE SINGLE CRYSTALS 67-02 M13-59068
SOME OBSERVATIONS OF PITS NEAR GRAIN BOUNDARIES AND OF GRAIN BOUNDARY MIGRATION DURING FATIGUE IN ZINC POLYCRYSTALS 67-02 M13-59069
ETCH PITTING ON DISLOCATIONS IN COPPER SINGLE CRYSTALS BY POTENTIOSTATIC ELECTROLYSIS 67-02 M13-60117
FIELD TEST RESULTS OF HIGH-PRESSURE FEED WATER HEATER TUBING MATERIALS OF A POWER PLANT 67-02 M18-59143
THE CORROSION RESISTANCE OF A 13 PER CENT CR STEEL IN AQUEOUS SOLUTIONS OF SALTS 67-02 M18-60211
THE EFFECT OF DESIGN CONSIDERATIONS ON THE CORROSION RESISTANCE OF WELDED JOINTS 67-02 M18-60616
THE PITTING POTENTIAL OF STAINLESS STEELS IN CHLORIDE MEDIA 67-02 M18-61761
CORROSION IN BLAST-FURNACE GAS TURBINES. CAUSES AND REMEDIES 67-02 M18-62025
CORROSION OF BERYLLIUM BY SALT WATER 67-03 M18-65476
THE RELATIONSHIP BETWEEN BASIC MODES OF WEAR AND EXPERIENCE IN ENGINEERING PRACTICE 67-04 M17-66292
CORROSION BEHAVIOR OF ELECTROPLATES. PT. 2. CORROSION CURRENTS IN ZINC-STEEL AND CADMIUM-STEEL COUPLES AND DECAY CHARACTERISTICS OF STEEL 67-04 M18-66286
GALVANIC PITTING IN METALLIC COATINGS 67-04 M18-66715
ELECTROCHEMICAL INVESTIGATION OF THE PITTING CORROSION IN KH18N10T STAINLESS STEEL IN CONDITIONS OF HEAT TRANSFER 67-04 M18-67281
LOCAL CORROSION OF THE ANODE IN THE LOW TEMPERATURE HARD ANODIZING PROCESS OF ALUMINUM 67-04 M18-67594
THE THERMAL ETCHING FIGURES OF METAL MICROSECTIONS 67-05 M13-68250
INFLUENCE OF CUPRIC IONS ON THE BEHAVIOR OF SURFACE-ACTIVE AGENTS TOWARDS ALUMINIUM 67-05 M18-68312
CORROSION RESISTANCE OF STEELS WITH A LOW CONCENTRATION OF NICKEL IN AGGRESSIVE MEDIA 67-05 M18-68381
FIVE-YEAR EXPOSURE TESTS ON ANODIZED ALUMINIUM IN A SEVERE INDUSTRIAL ATMOSPHERE 67-05 M18-68824
INFLUENCE OF SURFACE CONDITION ON PIT CORROSION OF PHOSPHATED MILD STEEL SHEETS 67-05 M18-69131
STUDY ON THE PITTING IN ROLLING CONTACT. PT. 1. ON THE MECHANISM OF THE PITTING OCCURRENCE 67-05 M18-69371
STRESS CORROSION OF BERYLLIUM IN SYSTHETIC SEA WATER 67-05 M18-69474
THE INHIBITION OF PITTING AND STRESS-CORROSION CRACKING OF MG-AL ALLOYS BY NO3 67-05 M18-69707
PITTING CORROSION OF 13CR-FE ALLOY IN NA2SO4 SOLUTIONS CONTAINING CHLORIDE IONS 67-05 M18-69837
WETTABILITY AND PITTING FORMATION ON CATHODE NICKEL 67-06 M03-72106
SOME OBSERVATIONS ON THE PITTING CORROSION OF TYPE 302 STAINLESS STEEL IN DILUTE OXYGENATED HALIDE SOLUTIONS 67-06 M18-69905
CORROSION-RESISTANT ALLOYS IN CHLORIDE SOLUTIONS-- MATERIALS FOR SURGICAL IMPLANTS 67-06 M18-70694
ANODIC POLARIZATION BEHAVIOR OF PURE ALUMINUM AND SAP --SINTERED ALUMINUM POWDER-- IN HALIDE SOLUTIONS 67-06 M18-70790
PITTING DISSOLUTION BEHAVIORS OF PURE ALUMINUM AND SAP --SINTERED ALUMINUM POWDER-- IN WEAK ALKALINE AQUEOUS SOLUTIONS OF NACL 67-06 M18-70791
THICK FILM COATED TUBING. INTERNAL COATINGS FOR OIL FIELD TUBULAR GOODS 67-06 M18-71226
CHEMICAL TREATMENT OF STAINLESS STEEL TUBES FOR PREVENTION OF PITTING CORROSION 67-06 M18-71264
A POSSIBLE ROLE FOR SULFATE REDUCERS IN THE CORROSION OF ALUMINUM ALLOYS 67-06 M18-71691
INFLUENCE OF TAPPET ROTATION ON CAM AND SURFACE DETERIORATION 67-07 M15-74250
EVALUATION OF ALUMINUM PANELS EXPOSED IN THE PACIFIC OCEAN AT 2340 FEET FOR SIX MONTHS 67-07 M18-72483
POTENTIOSTATIC POLARIZATION BEHAVIORS OF HIGH-PURITY ALUMINUM IN NEUTRAL SOLUTIONS CONTAINING NO3- OR NO2- IONS 67-07 M18-72527
ELECTROCHEMICAL ASPECTS OF PITTING CORROSION 67-07 M18-72762
HOW METALS RESIST SEA WATER 67-08 M18-74741
COMPARATIVE RESEARCH OF THE PITTING SUSCEPTIBILITY OF ORDINARY FERRITIC CR STEELS AND AUSTENITIC CR-NI STEELS IN CACL2 SOLUTIONS 67-08 M18-75511
A NOTE ON THE INFLUENCE OF TANGENTIAL TRACTION ON PITTING FATIGUE 67-08 M18-75542
CHEMICAL TREATMENT OF STAINLESS STEEL TUBES TO ELIMINATE RUSTY SPOTS 67-08 M18-75733
AN EXTREME-VALUE STATISTICAL ANALYSIS OF MAXIMUM PIT DEPTHS AND TIME TO FIRST PERFORATION 67-08 M18-76185
SHAFT CURRENTS AS CAUSES OF BEARING FAILURE 67-10 M17-78901
PITTING CORROSION OF STAINLESS STEELS IN WATER CONTAINING CHLORINE IONS 67-10 M18-78528
CONDICTIONS OF ORIGIN AND APPEARANCE FORMS OF PITTING CORROSION IN THE ANODIC OXIDATION OF AL BY THE GX METHOD 67-10 M18-79400
PITTING CORROSION AND ITS PREVENTION ON COATED UNDERGROUND PIPELINES 67-10 M18-79562
INFLUENCE OF INCLUSIONS ON THE CORROSION OF METALS BY GASEOUS F COMPOUNDS 67-11 M18-80146
THE ATMOSPHERIC CORROSION OF ALUMINIUM AND ITS ALLOYS. RESULTS OF SIX-YEAR EXPOSURE TESTS 67-11 M18-80693
ELECTROCHEMICAL CORROSION EXPERIMENTS AT TEMPERATURES ABOVE 100 C 67-11 M18-80707
EXPERIENCE WITH TI APPARATUS IN THE CHEMICAL INDUSTRY 67-11 M18-81258
COMPARATIVE SENSITIVITY OF AUSTENITIC-FERRITIC AND AUSTENITIC STAINLESS STEELS TO PITTING CORROSION 67-11 M18-81277
PERFORMANCE OF ALUMINUM ALLOYS AT OTHER TEST SITES 67-11 M18-81520
THE EFFECT OF INITIAL WEATHER CONDITIONS ON THE ATMOSPHERIC CORROSION OF ALUMINUM AND ITS ALLOYS 67-11 M18-81522

ATMOSPHERIC CORROSION TESTS IN SWEDEN. HARD ROLLED ALUMINUM ALLOYS 67-11 M18-81523
INVESTIGATIONS INTO A PITTING CORROSION INDICATOR TEST ON CHROMIUM AND CHROME-NICKEL STEELS IN SOLUTIONS CONTAINING CHLORIDE OR BROMIDE 67-12 M18-82298
PITTING CORROSION OF AUSTENITIC FE-CR-NI STEELS. FACTORS AFFECTING ATTACK MECHANISMS 67-12 M18-82519
EFFECT OF ELECTRICAL CURRENTS ON BALL BEARING DAMAGE IN VACUUM AND IN AIR 67-12 M18-82990

PITTING /CORROSION/, ALLOYING EFFECTS
THE EFFECT OF 1 PER CENT COPPER ADDITION ON THE ATMOSPHERIC CORROSION OF ROLLED ZINC 67-11 M18-80681

PITTING /CORROSION/, HEATING EFFECTS
INFLUENCE OF ANNEALING AT 600 C. ON ANODIC BEHAVIOR OF PURE ZIRCONIUM IN HYDROCHLORIC ACID 67-10 M18-78539

PITTING /CORROSION/, STRESS EFFECTS
EFFECTS OF COMPOSITION ON THE STRESS CORROSION CRACKING SUSCEPTIBILITY OF AUSTENITIC STAINLESS STEELS IN CHLORIDE CONTAINING HIGH TEMPERATURE WATER. PT. 1. COMPARISON AMONG THE SUS 27, 28, 32 AND 43 STEELS IN THE JAPANESE INDUSTRIAL STANDARD 67-02 M18-60276

PITTING /CORROSION/, TEMPERATURE EFFECTS
ANODIC CORROSION OF LEAD IN A SULPHURIC ACID SOLUTION UNDER THE INFLUENCE OF PERCHLORIC ACID 67-10 M18-78921

PITTING TESTS
EVALUATION OF ACCELERATED CORROSION TESTS FOR ANODIZED ALUMINIUM 67-05 M18-68823
WEATHERING PIT FORMATION ON SURFACE OF AL SHEET. EFFECT OF DISSOLVED OXYGEN IN PURE WATER 67-05 M18-68869
PITTING ON CUT AND ROLLED SURFACES OF STEEL SHEET WITH 18 PER CENT CR AND 10 PER CENT NI 67-09 M18-77228

PLAIN BEARINGS
SEE JOURNAL BEARINGS
SLEEVE BEARINGS

PLANERS
EDM ON AN OLD PLANER 67-06 M08-71491

PLANETARY MILLS
DEVELOPMENT AND PRINCIPLE OF THE KRUPP/PLATZER PLANETARY ROLLING MILL 67-06 M07-70029
SENDZIMIR HOT AND COLD MILLS AND THEIR OPERATION IN CONJUNCTION WITH CONTINUOUS CASTING 67-06 M07-70132
FIRST KRUPP/PLATZER PLANETARY ROLLING MILL IN OPERATION 67-07 M07-73330
EVALUATION OF PLANETARY ROLLING MILLS 67-09 M07-76504
THE KRUPP/PLATZER PLANETARY ROLLING MILL--DESIGN AND OPERATION 67-11 M07-81363

PLANETARY MILLS, DESIGN
WIDE PLANETARY MILL FOR STAINLESS STEEL 67-12 M07-82931

PLANIMETERS
SEE AREA
DIMENSIONAL MEASUREMENTS

PLANING
NUMERICALLY-CONTROLLED PLANING 67-04 M08-66106

PLANISHING
SEE ALSO ROLL PLANISHING
CONTINUOUS PLANISHING 67-07 M08-74264

PLANTS
SEE IRON AND STEEL PLANTS

PLASMA /PHYSICS/
SURFACE PLASMA OSCILLATIONS AS A TOOL FOR SURFACE EXAMINATIONS 67-10 M13-79557

PLASMA ARC CASTING
SEE CASTING
PLASMA ARC MELTING

PLASMA ARC CUTTING
THE FUTURE OF CUTTING MACHINES --TORCHES-- IN POLAND 67-01 M08-58177
THERMAL CUTTING--PROBLEMS, TRENDS AND ACHIEVEMENTS 67-01 M08-58400
GAS-ELECTRIC CUTTING OF ALUMINUM ALLOYS IN THICKNESSES TO 150 MM 67-02 M11-59529
PLASMA CUTTING BY A TORCH WITH AN AIR-WATER STABILIZATION OF ARC 67-02 M11-61271
PLASMA NEEDLE ARC FOR VERY LOW CURRENT WORK 67-02 M11-61576
PUTTING PLASMA TO WORK 67-04 M08-66579
THE PLASMA FLAME AND ITS VARIOUS APPLICATIONS 67-04 M08-67717
BEHAVIOR OF ARC DURING PLASMA CUTTING OF METAL 67-04 M11-67004
MEASURING FIELD INTENSITY IN A PERMEATING ARC 67-04 M11-67005
ARC POWER SUPPLY FOR PLASMA-ARC CUTTING OF METALS 67-04 M11-67018
THE PLASMA ARC 67-05 M01-68907
A PLASMA ARC CUTTING TORCH WITH THE ARC STABILIZED WITH AIR AND WATER 67-05 M11-68271
DEVICE FOR OXYGEN FLAME PLASMA-ARC CUTTING OF STEELS WITH A TUNGSTEN ELECTRODE 67-06 M11-70145
THE APPLICATION OF PLASMA BURNERS IN MODERN METALWORKING 67-07 M01-72433
NEW TECHNIQUES INCREASE SPEED OF FLAME CUTTING 67-07 M08-72619
GAS-ELECTRIC CUTTING OF STAINLESS STEEL IN AMMONIUM 67-08 M08-74378
ARC BEHAVIOR IN THE PLASMA CUTTING OF METALS 67-08 M11-74763
FIELD STRENGTH MEASUREMENTS IN THE PENETRATING ARC 67-08 M11-74764
A POWER SOURCE FOR PLASMA ARC CUTTING 67-08 M11-74777
PLASMA ARC CUTTING 67-09 M07-77914
PLASMA ARC CUTTING 67-09 M06-76672
PLASMA ARC APPLICATIONS. PT. 2 67-09 M11-77763
AIR PLASMA ARC CUTTING OF METALS WITH A PLASMATRON WITH A ZIRCONIUM CATHODE 67-09 M11-78130
HIGH QUALITY PLASMA ARC CUTTING AND PIERCING 67-11 M08-80408
METALLURGICAL APPLICATION OF PLASMA GUNS 67-11 M12-80356
GAS ELECTRIC CUTTING OF STAINLESS STEEL AND ALUMINIUM IN AMMONIA 67-12 M08-82251
RECENT DEVELOPMENTS IN PLASMA ARC MACHINING 67-12 M08-82951
CUTTING METALS WITH COMPRESSED AIR ARC AND ZIRCONIUM CATHODE 67-12 M08-83179
PLASMA-ARC CUTTING OF METALS USING MIXED GAS 67-12 M08-83180
PLASMA-ARC CUTTING OF TITANIUM AND ITS ALLOYS 67-12 M08-83182
AN INSTALLATION FOR PLASMA CUTTING HEAVY GAGE ALLOYED STEEL 67-12 M11-83181

PLASMA ARC FURNACES
METALLURGICAL PHENOMENA TAKING PLACE DURING MELTING IN THE ELECTRON BEAM FURNACE, IN THE ELECTROSLAG MELTING INSTALLATION AND IN THE PLASMA FURNACE 67-10 M04-79182

PLASMA ARC HARDFACING
SEE HARD SURFACING
PLASMA ARC SURFACING
PLASMA SPRAYING

PLASMA ARC HEATING
SEE PLASMA ARC MELTING

PLASMA ARC MACHINING
SEE MACHINING
PLASMA ARC CUTTING

PLASMA ARC MELTING
PLASMA-ARC REMELTING OF METALS AND ALLOYS 67-02 M04-62158
INVESTIGATION OF PLASMA BEAM MELTING 67-02 M06-60046
THE TRANSFERRED PLASMA ARC JET REMELTING OF METALS AND ALLOYS 67-04 M04-67165
PUTTING PLASMA TO WORK 67-04 M08-66579
THE PRESENT STATE OF REMELTING HIGH-QUALITY STEEL BY SPECIAL METHODS 67-09 M04-77214
MELTING AND CASTING REFRACTORY OR REACTIVE METALS BY PLASMA ELECTRON BEAM 67-09 M06-78223
PLASMA FURNACE FOR MELTING AND SPHEROIDIZING OF CERAMIC POWDERS 67-12 M09-82805

PLASMA ARC PLATING
SEE ARC SPRAYING
PLASMA SPRAYING
PLATING

PLASMA ARC SPRAYING
SEE ARC SPRAYING
PLASMA SPRAYING

PLASMA ARC SURFACING
PUTTING PLASMA TO WORK 67-04 M08-66579
THE PLASMA FLAME AND ITS VARIOUS APPLICATIONS 67-04 M08-67717
THERMOPHYSICAL CONDITIONS OF BUILDUP OF COPPER AND BRONZE ONTO STEEL BY PLASMA JET 67-04 M12-66810
THE PLASMA ARC 67-05 M01-68907

PLASMA ARC SURFACING
THE APPLICATION OF PLASMA BURNERS IN MODERN METALWORKING 67-07 M01-72433
THE THERMAL AND PHYSICAL CONDITIONS FOR THE PLASMA JET DEPOSITION OF COPPER AND BRONZE ON STEEL 67-08 M12-75914
POROUS BODIES OF TANTALUM, NIOBIUM, AND ALUMINUM FABRICATED BY METAL SPRAY PROCESSES 67-11 M12-80840
HARD SURFACING TECHNIQUES IN MECHANICAL CONSTRUCTION 67-12 M11-83505
PLASMA ARC SURFACING, TEMPERATURE CONTROL
REGULATING THE TEMPERATURE OF THE WELD POOL DURING PLASMA JET METAL DEPOSITION 67-04 M11-67668
PLASMA ARC TORCHES
PLASMA CUTTING BY A TORCH WITH AN AIR-WATER STABILIZATION OF ARC 67-02 M11-61271
A PLASMA ARC CUTTING TORCH WITH THE ARC STABILIZED WITH AIR AND WATER 67-05 M11-68271
PLASMA ARC--A SURVEY. PT. 1 67-07 M01-73796
APPLICATIONS OF PLASMA TECHNOLOGY IN EXTRACTIVE METALLURGY 67-07 M03-73827
PLASMA ARC WELDING
WELDING BY COMPRESSED ARC ON ALTERNATING CURRENT 67-01 M11-58274
PLASMA ARC WELDING OF TITANIUM 67-01 M11-58772
AUTOMATIC DEPOSIT WELDING OF STAINLESS STEELS ONTO PEARLITIC STEELS USING A PLASMA JET 67-01 M12-57396
NARROW WELDED JOINTS 67-02 M11-61539
PLASMA NEEDLE ARC FOR VERY LOW CURRENT WORK 67-02 M11-61576
WHICH WELD FOR WHAT JOB AND WHEN 67-03 M11-65234
THE PLASMA FLAME AND ITS VARIOUS APPLICATIONS 67-04 M08-67717
NEW MICROPLASMA ARC PROCESS FOR JOINING MICROSIZED PARTS 67-04 M11-66396
HIGH PERFORMANCE A. C. ARC WELDING 67-04 M11-67355
THE PRESENT STATE AND TRENDS IN THE DEVELOPMENT OF PLASMA ARC WELDING 67-04 M11-67706
THE PLASMA ARC 67-05 M01-68907
ADVANTAGES OF PLASMA ARC WELDING 67-05 M11-69557
INVESTIGATION OF HEAT EFFICIENCY OF COMPRESSED ARC WELDING OF THIN SHEET MATERIALS 67-06 M11-71643
PLASMA ARC WELDING PROCESSES 67-06 M11-72062
THE APPLICATION OF PLASMA BURNERS IN MODERN METALWORKING 67-07 M01-72433
PLASMA WELDING IN TUBE PRODUCTION 67-08 M11-75012
AUTOMATIC PLASMA ARC WELDING OF SQUARE BUTT PIPE JOINTS 67-08 M11-76065
PLASMA ARC APPLICATIONS. PT. 2 67-09 M11-77763
PLASMA ARC WELDING 67-09 M11-77913
PLASMA WELDING FOILS THE FOILS 67-10 M11-78878
THE THERMAL EFFICIENCY OF CONSTRICTED ARC WELDING ON THIN SHEET MATERIAL 67-10 M11-79610
PLASMA ARC WELDS THIN MATERIALS FAST 67-11 M11-80524
METALS JOINING. 67-12 M11-82272
INVESTIGATION OF THE WELDING OF ZIRCONIUM ALLOYS 67-12 M11-83281
PLASMA ARC WELDING, TEMPERATURE CONTROL
TEMPERATURE CONTROL OF THE WELD BED DURING PLASMA JET WELDING 67-02 M11-60128
REGULATING THE TEMPERATURE OF THE WELD POOL DURING PLASMA JET METAL DEPOSITION 67-04 M11-67668
PLASMA ARCS
PLASMA IN METALLURGY--NEW APPLICATIONS 67-04 M08-67715
PLASMA GUNS
CHELATES AND METALS 67-11 M01-81398
PLASMA JET CUTTING
SEE PLASMA ARC CUTTING
PLASMA JET SPRAYING
SEE PLASMA SPRAYING
PLASMA JETS, CORROSION
EXPERIMENTS ON GAS PROTECTION OF POROUS REFRACTORY MATERIALS AGAINST OXIDATION AND EROSION IN PLASMA FLOWS 67-08 M09-74315
PLASMA OSCILLATIONS
SEE OSCILLATIONS PLASMA /PHYSICS/
PLASMA SHEATHS
SEE PLASMA /PHYSICS/ SHEATHS
PLASMA SPRAYING
SEE ALSO PLASMA ARC SURFACING
GUN METALLIZING 67-01 M12-58431
THE PRODUCTION AND PROPERTIES OF SPHERICAL COPPER POWDERS AND PARTS FROM SUCH POWDERS 67-02 M09-61781
THE MANUFACTURE OF MOLYBDENUM PARTS BY THE METHOD OF PLASMA SPRAYING 67-02 M09-62206
THE PLASMA TECHNOLOGY OF TUNGSTEN 67-02 M12-60104
PLASMA AND DIFFUSION COATINGS ON GRAPHITE 67-02 M12-61630
THE HEAT FLOW INTO A BODY SUBJECTED TO A PLASMA JET 67-02 M15-59797
DEVELOPING A PROCESS OF PLASMA PRODUCTION OF SPHERICAL POWDERS FROM REFRACTORY METALS 67-03 M09-65798
PLASMA FLAME COATINGS 67-04 M12-66687
THERMOPHYSICAL CONDITIONS OF BUILDUP OF COPPER AND BRONZE ONTO STEEL BY PLASMA JET 67-04 M12-66810
FORCES BINDING PLASMA COATINGS TO THE BASE 67-04 M12-67338
ON RESIDUAL STRESSES IN SPRAYED COATINGS BY PLASMA-JET
INSTITUTE FOR METALS, PROCEEDINGS. TOKYO, JAPAN. 67-04 M17-67591
THE PLASMA ARC 67-05 M01-68907
FLAME SPRAYING BY MEANS OF PLASMA AND ELECTRIC ARC 67-05 M12-69122
MULTILAYER REFRACTORY NOZZLES PRODUCED BY PLASMA-SPRAY PROCESS 67-06 M12-70015
PROTECTIVE COATINGS HELP TO EXTEND JET ENGINE PART LIFE 67-06 M12-70472
REFRACTORY METALS PROTECTION 67-06 M12-71318
PLASMA SPRAYING AND THE PRODUCTION OF HEAT RESISTANT PROTECTIVE COATINGS ON STEEL 67-06 M12-71506
DETERMINATION OF THE VELOCITIES AND PULSATIONS OF JET DURING PLASMA SPRAYING 67-06 M12-71642
THE APPLICATION OF PLASMA BURNERS IN MODERN METALWORKING 67-07 M01-72433
ADVANCED METAL COMPOSITES--A STATUS REPORT 67-07 M09-73720
THE CONTRIBUTION OF PLASMA SPRAYING TECHNIQUES TO THE PROTECTION AGAINST WEAR OF TOOLS 67-07 M12-74160
IMPROVING THE WEAR RESISTANCE OF PISTON RINGS BY PLASMA METALLIZING 67-08 M12-75429
PLASMA SPRAYING OF BLAST FURNACE AIR TUYERES 67-08 M12-76266
PLASMA ARC APPLICATIONS. PT. 2 67-09 M11-77763
EXPERIENCE IN THE USE OF PLASMA SPRAYING TECHNIQUES 67-09 M12-76362
PLASMA ARC DEPOSITION OF COPPER ON STEEL USING A LIVE FILLER METAL ELECTRODE 67-10 M12-78402
FORMATION OF COATINGS DURING METALLIZING OF TUNGSTEN ONTO GRAPHITE 67-10 M12-78405
PLASMA SPRAYING OF BLAST-FURNACE TUYERES 67-10 M12-79259
ADHESIVE STRENGTH OF PLASMA COATINGS WITH THE SUBSTRATES 67-10 M12-79349
THE PRODUCTION AND TESTING OF PLASMA SPRAY COATINGS 67-10 M12-79381
DETERMINATION OF JET VELOCITIES AND PULSATIONS IN PLASMA SPRAYGUNS 67-10 M12-79609
IMPROVING FRICTIONAL BEHAVIOR WITH SURFACE TREATMENTS REQUIRING HEAT 67-11 M12-80902
THERMAL CONDUCTIVITY AND EMISSIVITY OF ALUMINUM OXIDE COATINGS AT HIGH TEMPERATURES 67-11 M15-80493
PLASMA-SPRAYED DIELECTRIC COATINGS FOR HEAT SINKS IN ELECTRONIC PACKAGING 67-12 M12-81895
PLASMA SPRAYING, POWDER METALLURGY
POSSIBILITY OF OBTAINING LARGE SPHERICAL PARTICLES BY PERPENDICULAR FEEDING OF FINE POWDER INTO A PLASMA JET 67-04 M09-67331
PLASTER, MOLDS
PLASTER-MOLD ALUMINUM CASTINGS 67-09 M06-77979
PLASTER CASTING
AQUACAST PROCESS FOR CASTING NON-FERROUS METALS 67-02 M06-61689
THE HONSEL-PLASTERMOLD PROCESS 67-10 M06-79084
PLASTER OF PARIS
SEE CALCIUM COMPOUNDS SULFATES
PLASTIC COATING
PLASTIC LINED STEEL CONTAINERS 67-01 M12-57299
PRECOATED STRIP 67-04 M12-66137
METALLIZING. PT. 6, 7 AND 8. PLASTIC COATINGS,

METAL COATING APPLICATIONS, PERSONNEL AND HYGIENE
67-04 M12-66657
USE OF PLASTIC-COATED PRODUCTS IN MODERN INDUSTRY
67-04 M20-66556
THE FLAME SPRAYING OF NONMETALLIC PROTECTIVE COATINGS. PT. 8
67-05 M18-68923
VINYL DISPERSION COATINGS FOR METALS
67-06 M12-70610
CORROSION PROBLEMS ON FINNED AIR-COOLED HEAT EXCHANGER TUBING
67-06 M18-70546
ON THE PLASTISOL-COATED STEEL WIRE FOR THE ARMOR OF SUBMARINE CABLE
67-06 M18-70582
THICK FILM COATED TUBING. INTERNAL COATINGS FOR OIL FIELD TUBULAR GOODS
67-06 M18-71226
THE CATHODIC AND ANODIC DEPOSITION OF PLASTICS ON METAL
67-07 M12-73818
PLASTIC-COATED STEELS IN THE CHEMICAL INDUSTRY
67-07 M12-73897
PRECOATED STEELS
67-08 M12-75475
ORGANIC COATINGS
67-08 M12-75478
PLASTIC-COATED STEEL STRIP AND SHEET
67-08 M12-75679
LIQUID POLYETHLENE DISPERSIONS COAT STEEL, ALUMINUM, COPPER
67-08 M12-76064
EVALUATION OF THICK FILM COATINGS. CORROSION PROTECTION FOR OIL CONTRY TUBING
67-08 M18-75746
THE PVC COATING OF FERROUS WIRES
67-11 M12-80541
THE TECHNIQUES AND PRACTICAL ADVANTAGES OF PLASTIC COATING WIREWORK AND WIRE
67-11 M12-81241
THE WELDING OF PLASTIC-COATED STEEL SHEET
67-12 M11-83072
FLUIDIZED BED EPOXY COAT PROTECTS SONAR
67-12 M12-82382
TRENDS IN PLASTIC COATED PIPING
67-12 M12-82647
FINISH COATING OF STEEL STRIP COILS
67-12 M12-82886

PLASTIC DEFORMATION
FORGING FACTORS--ELEMENTS OF DEFORMATION AND FRACTURE. PT. 2
67-01 M07-57952
THE DIMENSIONING OF ROLL BODIES IN ROLL STANDS FOR ROLLING ALUMINUM
67-01 M07-58220
EFFECT OF PLASTIC DEFORMATION TEMPERATURE ON THE AGEING KINETICS OF HEAT-RESISTANT AUSTENITIC STEEL WITH CARBIDE STRENGTHENING
67-01 M10-57352
MEASURES TO REDUCE DEFORMATIONS TAKING PLACE IN SHEET METAL SHIP SUPERSTRUCTURES DURING WELDING
67-01 M11-57159
USE OF A COMPUTER FOR CALCULATING DEFORMATION DURING WELDING
67-01 M11-58272
OBSERVATION OF THIN FILMS OF ZIRCONIUM UNDER THE TRANSMISSION ELECTRON MICROSCOPE
67-01 M13-58023
CHANGE OF METALS BY RECRYSTALLIZATION
67-01 M13-58360
PHYSICAL METALLURGY ASPECTS OF PLASTIC DEFORMATION
67-01 M14-58362
EFFECT OF PLASTIC DEFORMATION ON THE ELECTRICAL RESISTIVITY OF NICKEL ALLOYS WITH COPPER
67-01 M15-57662
TENSILE TESTS WITH VARYING SPEED OF DEFORMATION OF ALPHA-BRASS
67-01 M17-57288
INTERNAL STRESSES IN TENSILE SPECIMENS OF ALUMINUM ALLOYS AND IRON AFTER PLASTIC DEFORMATION
67-01 M17-57292
DYNAMIC DEFORMATION OF METALS UNDER HIGH HYDROSTATIC PRESSURE
67-01 M17-57543
DEFORMATION CAUSED BY STYLUS TRACKING ON THIN GOLD FILM
67-01 M17-57557
X-RAY INVESTIGATION ON FATIGUE OF POLYCRYSTALLINE METALS--THE RELATION BETWEEN CRYSTAL ORIENTATION AND DEFORMATION IN FCC CRYSTAL
67-01 M17-57586
INVESTIGATION OF THE INITIAL STAGE OF DEFORMATION OF GALLIUM ARSENIDE SINGLE CRYSTALS
67-01 M17-57650
EFFECT OF TEMPERATURE ON THE MECHANISM OF PLASTIC DEFORMATION OF MAGNESIUM AND MAGNESIUM ALLOY WITH 3 PER CENT NEODYMIUM
67-01 M17-58083
EFFECT OF CRYSTALLOGRAPHIC TEXTURE ON PRESS FORMING OF EXTRA-LOW-CARBON RIMMED STEEL SHEET
67-01 M17-58240
THE PLASTIC BEHAVIOR OF PB-SB ALLOYS
67-01 M17-58623
TO THE RELATION BETWEEN STRAIN RATE AND DEFORMATION RATE OF COPPER SINGLE CRYSTALS IN STAGE 3
67-01 M17-58633
THERMAL STRESS AND LOW-CYCLE FATIGUE
67-01 M17-58701
TUBULAR QUARTZ ELEMENTS AND THEIR DIMENSIONING
67-01 M20-58234
METAL FLOW IN STEEL FORGINGS
67-02 M07-59463
PLASTIC PHENOMENA IN ROLLING
67-02 M07-59809
PLASTIC WORKING OF METALS WITH SEPARATE ZONES OF DIFFICULT DEFORMATION
67-02 M07-60064
EFFECT OF HEAT TREATMENT ON DEFORMATION AND DIMENSIONAL STABILITY OF 14109 BEARING STEEL
67-02 M10-58985
DISTORTION OF PARTS DURING HEAT TREATMENT
67-02 M10-59805
CHARACTERISTICS OF PLASTIC DEFORMATION DURING WELDING WITHOUT FUSION
67-02 M11-59512
STEREOPHOTOGRAMMETRIC MEASUREMENT OF AN EXTRUSION-INTRUSTION MICRORELIEF FORMED DURING THE PLASTIC DEFORMATION OF NICKEL
67-02 M13-58855
EFFECT OF STRAINING CONDITIONS DURING ROLLING ON THE MAGNITUDE OF MICRODISTORTIONS OF THE CRYSTAL LATTICE AND DIMENSIONS OF THE BLOCK STRUCTURE
67-02 M13-58899
EFFECT OF COLD PLASTIC DEFORMATION AND OF THE QUANTITY OF CARBON ON THE DISLOCATION STRUCTURE OF CARBON STEELS
67-02 M13-59580
ON THE DISLOCATION STRUCTURES FORMED DURING THERMOMECHANICAL TREATMENT OF ALLOYS WITH LOW DEFECT STACKING ENERGIES
67-02 M13-60298
PRESENT KNOWLEDGE ABOUT POINT DEFECTS IN DEFORMED FACE-CENTERED-CUBIC METALS
67-02 M13-60601
THE INFLUENCE OF DEFORMATION ON COHERENCE LENGTH, LATTICE DISTORTIONS AND STACKING FAULT PROBABILITY OF UNIAXIALLY STRAINED HOMOGENEOUS AND HETEROGENEOUS ALLOYS
67-02 M13-60876
INFLUENCE OF DEFORMATION RATE AND DEFORMATION DEGREE ON TWINNING IN TITANIUM
67-02 M13-61224
INFLUENCE OF PLASTIC DEFORMATION TEMPERATURE ON THE AGING OF HIGH-TEMPERATURE AUSTENITIC STEELS
67-02 M14-60294
CARBIDE TRANSFORMATIONS ON THE RAPID DEFORMATION OF STEEL 45
67-02 M14-61169
EFFECT OF PLASTIC DEFORMATION AND HEAT TREATMENT ON THE MAGNETIC ANISOTROPY OF A CO-PT ALLOY
67-02 M15-59662
VARIATION IN THE ELECTRICAL RESISTIVITY OF BISMUTH OF DIFFERENT PURITIES ON PLASTIC DEFORMATION AND ANNEALING
67-02 M15-61163
RELATION BETWEEN PURE SHEAR AND SIMPLE SHEAR IN PLASTIC RANGE
67-02 M17-58820
ANISOTROPY DUE TO PLASTIC DEFORMATION
67-02 M17-58823
INTERNAL SHEARING RESISTANCES IN THE THREE SHEAR THEORY OF PLASTICITY
67-02 M17-58824
STRAIN RATIO RELATIONSHIP IN PLASTIC DEFORMATION
67-02 M17-58826
THE SHAPE OF MECHANICAL HYSTERESIS LOOP, ITS DEFORMATION DUE TO STRESS REPETITION AND RESULTING INCREASE IN FLOW STRESS. PT. 2. THEORY FOR TORSION
67-02 M17-58828
A METHOD OF CONSTRUCTING AND ANALYZING TRUE TENSILE DIAGRAMS
67-02 M17-58837
INVESTIGATION OF PLASTIC DEFORMATION OF A TENSILE-TEST SPECIMEN
67-02 M17-58838
DEFORMATION RESISTANCE OF EP375 AND EP495 ALLOYS
67-02 M17-58878
THE PLASTIC DEFORMATION AND FRACTURE OF IRON-3 PER CENT SILICON IN THE TEMPERATURE RANGE 295 TO 473 K
67-02 M17-58957
THE DEFORMATION PROPERTIES AND ELECTRON MICROSCOPY STUDIES OF THE INTERMETALLIC COMPOUND NIAL
67-02 M17-58963
THE TENSILE DEFORMATION BEHAVIOR OF AN ALUMINIUM-MAGNESIUM ALLOY
67-02 M17-58965
EFFECT OF CERTAIN CONDITIONS OF HEAT TREATMENT ON THE CONSTANCE OF DIMENSIONS OF CSN 424400 AND 424331 ALUMINUM ALLOYS
67-02 M17-58988
PARTICLE WAVES AND DEFORMATION IN CRYSTALLINE SOLIDS
67-02 M17-59076
PROPERTIES OF CARBON STEELS USED IN THE WIRE INDUSTRY
67-02 M17-59106
CREEP DEFORMATION OF ROLLED ZN-TI ALLOYS
67-02 M17-59427
RESIDUAL DEFORMATION STRESSES IN IRON MATERIALS
67-02 M17-59917
ELASTIC-PLASTIC PROPERTIES OF A SERIES OF METALS DURING EXPLOSIVE LOADING
67-02 M17-59937
THE RELATIONSHIP OF CRACK PROPAGATION RATE IN

METALS TO AMOUNT OF PLASTIC DEFORMATION
67-02 M17-59938
CERTAIN PHYSICOMECHANICAL PROPERTIES OF AUSTENITIC-MARTENSITIC STEELS
67-02 M17-60068
CONTRIBUTION TO THE PLASTICITY OF COPPER WHISKERS
67-02 M17-60124
COMPRESSIVE DEFORMATION AND STRUCTURE IN SINTERED ALUMINUM PRODUCTS --S. A. P.--
67-02 M17-60261
DEFORMATION OF ALUMINIUM SINGLE CRYSTALS AT HIGH STRAIN RATES 67-02 M17-60274
PLASTIC DEFORMATION OF TUNGSTEN SINGLE CRYSTALS AT LOW TEMPERATURES 67-02 M17-60632
THE RATE CONTROLLING MECHANISM DURING YIELDING AND FLOW OF ALPHA TITANIUM AT TEMPERATURES BELOW 0.4 TM 67-02 M17-60651
ELEMENTARY CONSIDERATIONS FOR STRUCTURAL USE
67-02 M17-60709
INFLUENCE OF HOT ROLLING CONDITIONS ON THE STRUCTURE AND PROPERTIES OF MOLYBDENUM, NIOBIUM AND TITANIUM 67-02 M17-60737
DIFFUSION CREEP IN POLYCRYSTALLINE SOLIDS
67-02 M17-60753
USE OF PHOTOGRAPHY FOR ANALYSIS OF DEFORMATION KINETICS OF ARMCO IRON 67-02 M17-60981
DEFORMATION RESISTANCE OF LEAD IN RELATION TO THE STRAIN-RATE FACTOR 67-02 M17-61558
STRUCTURAL CHANGES IN METALS DURING ALTERNATING PLASTIC DEFORMATION 67-02 M17-61675
REDUCTION OF AREA IN HOT DEFORMATION BY TENSILE STRESS 67-02 M17-61996
CHARACTERISTICS OF PLASTIC DEFORMATION OF INDIUM AND ITS ALLOYS 67-02 M17-62086
THE MECHANISM OF DEFORMATION AND RUPTURE OF POROUS IRON 67-02 M17-62128
THE DEVELOPMENT OF STRESS-STRAIN RELATIONSHIPS AND THEIR APPLICATION IN THE RANGE OF PLASTIC DEFORMATION 67-02 M17-62198
EFFECT OF TEMPERATURE, DEGREE AND DURATION OF DEFORMATION ON THE DEFORMABILITY OF MAGNESIUM ALLOYS 67-02 M17-62222
MECHANISM OF PLASTIC DEFORMATION DURING TENSION OF MOLYBDENUM SINGLE CRYSTALS OF VARIOUS ORIENTATIONS 67-02 M17-62234
EFFECT OF PLASTIC DEFORMATION TEMPERATURE ON MECHANICAL PROPERTIES OF HEAT-RESISTANT AUSTENITIC STEELS 67-02 M17-62269
EFFECT OF DEFORMATION ON INTERCRYSTALLINE CORROSION OF TYPE 18-8 STAINLESS STEEL 67-02 M18-60066
THE MAXIMUM PRESSURE IN THE REVERSE EXTRUSION OF STEEL 67-03 M07-65178
APPLICATION OF THE MECHANICS OF PLASTIC DEFORMATION TO METAL CUTTING 67-03 M08-65988
MECHANICAL TWINNING IN COLD-ROLLED SILVER SINGLE CRYSTALS 67-03 M13-65231
DEFORMATION STRUCTURES IN BERYLLIUM
67-03 M13-65270
CURRENT RESEARCH AT NUCLEAR METALS ON HIGH-PURITY BERYLLIUM 67-03 M13-65272
ON THE RECOVERY OF PLASTICALLY DEFORMED IRON SINGLE CRYSTALS ABOVE ROOM TEMPERATURE
67-03 M14-65233
THE PLASTIC DEFORMATION OF SILICON FERRITE OCCURRING DURING THE MARTENSITIC TRANSFORMATION
67-03 M14-65445
RECRYSTALLIZATION DUE TO PLASTIC DEFORMATION IN HOT WORKING 67-03 M14-65556
THE MAGNETIC STRUCTURE OF PLASTICALLY DEFORMED CHROMIUM 67-03 M15-65397
DEFORMATION MECHANISMS IN TITANIUM AT LOW TEMPERATURES 67-03 M17-65084
STUDY OF STEEL THERMOMECHANICALLY STRENGTHENED DURING TENSION USING HIGH SPEED FILM
67-03 M17-65102
CHANGE OF THE DEFORMATION MECHANISM --SLIPTWINNING-- IN POLYCRYSTALLINE ALPHA-IRON
67-03 M17-65229
EFFECT OF PURITY ON TENSILE DEFORMATION IN SINGLE CRYSTALS 67-03 M17-65266
CONTRIBUTION TO THE STUDY OF PLASTIC DEFORMATION MECHANISMS IN POLYCRYSTALLINE BERYLLIUM BETWEEN 80 AND 500 K 67-03 M17-65276
TWINNING DEFORMATION IN IRON AT 4 K
67-03 M17-65370
INVESTIGATION OF PLASTIC DEFORMATION OF BERYLLIUM SINGLE CRYSTALS SUBJECTED TO COMPRESSION
67-03 M17-65458
THE MEANING OF THE FLOW CURVE OF THIN SHEET
67-03 M17-65570
THE DEFORMATION CHARACTERISTICS OF NB, TA, MO AND W
67-03 M17-65760
EFFECT OF PLASTIC DEFORMATION ON THE PROPERTIES OF OKHN40MDTYU --EP543-- ALLOY 67-03 M17-65782
ON THE SUPERIMPOSING OF ULTRASONIC VIBRATION DURING COMPRESSIVE DEFORMATION OF METALS
67-03 M17-65838
EFFECTS OF SUPERIMPOSED ULTRASONIC VIBRATION ON COMPRESSIVE DEFORMATION OF METALS
67-03 M17-65839
DETERMINATION OF THE ROLE OF PILE IRRADIATION ON THE PLASTIC DEFORMATION OF AN EXTRA-MILD STEEL BY THE MEASURE OF ACTIVATION VOLUME
67-03 M17-65859
DAMPING PEAKS IN DEFORMED NICKEL
67-03 M17-65867
EFFECT OF ULTRASOUND IN UPSETTING HARD-TO-FORM STEELS 67-04 M07-66086
GEOMETRIC PARAMETERS OF THE CONTINUOUS AREA OF FORMATION OF TUBES 67-04 M07-67613
CHARACTERISTICS OF PLASTIC DEFORMATION IN NON-FUSION WELDING 67-04 M11-66461
CALCULATING WELDING DEFORMATIONS WITH ELECTRONIC DIGITAL COMPUTERS 67-04 M11-67353
SOLID-STATE WELDING OF ALUMINUM
67-04 M11-67628
STRUCTURAL STUDY OF NICKEL SUBJECTED TO PLASTIC DEFORMATION AT INCREASED TEMPERATURES
67-04 M13-67842
VARIATION IN THE FINE CRYSTAL STRUCTURE AND TENSILE STRENGTH OF TUNGSTEN ON ANNEALING
67-04 M14-67642
SURFACE MARTENSITE ON PLASTICALLY DEFORMED AUSTENITE 67-04 M14-67755
EFFECT OF PLASTIC DEFORMATION ON PHYSICAL PROPERTIES OF TI-ALLOYED FE-NI INVARS
67-04 M15-67925
ANNIHILATION OF POSITRONS WITH ELECTRONS IN PLASTICALLY DEFORMED METALS WITH BCC LATTICES
67-04 M16-66001
RELATIONSHIP BETWEEN STRENGTH AND STRUCTURE IN DEFORMATION AT ELEVATED TEMPERATURES
67-04 M17-66042
DIRECT OBSERVATION OF SAP STRUCTURE FAULTS
67-04 M17-66046
THE CHANGE OF MECHANICAL AND PHYSICAL PROPERTIES OF ALPHA-IRON DUE TO TENSION, COMPRESSION, TORSION AND ROLLING 67-04 M17-66195
ULTRASONIC METHODS IN THE STUDY OF PLASTIC DEFORMATION 67-04 M17-66226
RELATIONSHIP BETWEEN MICRODEFORMATIONS AND THE GENERATION OF DISLOCATIONS IN IRON AND MILD STEEL
67-04 M17-66309
REPLY TO COMMENT ON THE EFFECT OF CARBON ON THE STRAIN RATE SENSITIVITY OF IRON SINGLE CRYSTALS
67-04 M17-66546
DEFORMATION AND FRACTURE OF MILD STEEL CHARPY SPECIMENS 67-04 M17-66728
SUPERPLASTICITY IN THE AL-CU EUTECTIC ALLOY
67-04 M17-66927
ELEVATED-TEMPERATURE DEFORMATION MECHANISMS IN BETA PRIME-NIAL 67-04 M17-66939
DEFORMATION RESISTANCE OF CERTAIN DUCTILE METALS IN DEFORMATION AT A HIGH RATE 67-04 M17-67155
RESISTANCE TO DEFORMATION OF COLD EXTRUDING STEELS
67-04 M17-67248
RESISTIVITY OF HARD ALLOYS TO FINITE PLASTIC DEFORMATION 67-04 M17-67346
STUDY OF THE EFFECT OF PLASTIC DEFORMATION DURING INTERMITTENT AGING ON THE STRUCTURE AND PROPERTIES OF AN ALUMINUM-MAGNESIUM ALLOY
67-04 M17-67385
FUNDAMENTAL MATERIAL INVESTIGATIONS WITH RESPECT TO DEFORMATION AT INTERMEDIATE TEMPERATURES
67-04 M17-67409
THE DETECTION OF METAL FLOW IN PLASTIC DEFORMATION BY RADIOISOTOPE 67-04 M17-67583
CONCENTRATION DEPENDENCE OF THE STRENGTH OF CU-AL SOLID SOLUTIONS 67-04 M17-67644
THE BOUNDARY BETWEEN ELASTIC AND PLASTIC DEFORMATION IN STEEL 67-04 M17-67650
EFFECT OF PLASTIC DEFORMATION AND AGING ON MECHANICAL PROPERTIES OF AL-MG ALLOYS
67-04 M17-67923
A STUDY OF PLASTIC DEFORMATION OF A DISCONTINUOUS SAMPLE 67-04 M17-68084
METALLURGICAL ABSTRACTS ON LIGHT METALS AND ALLOYS. V 2 67-05 M01-68899

COLD DEFORMATION AND ANNEALING OF THE VT15 ALLOY
67-05 M07-68389
METALLOGRAPHY OF DEFORMATION AND FAILURE IN CROSS-ROLLING 67-05 M07-68402
MODEL EXPERIMENTS TO ELUCIDATE DEFORMATION OF CIRCULAR BLANKS DURING EXPLOSIVE FORMING
67-05 M07-69159
STUDY ON HELICAL ROLLING. PT. 1. PRELIMINARY EXPERIMENT WITH LEAD BILLETS 67-05 M07-69370
USE OF COMPOSITE BILLETS FOR STUDYING METAL DISPLACEMENT DURING STAMPING 67-05 M07-69438
KINKING IN MGO SINGLE CRYSTALS UNDER HIGH CONFINING PRESSURE 67-05 M13-68295
DEFORMATION OF CEMENTATION 67-05 M13-68756
DIFFERENCE IN THE GRAIN SIZES OF NI-CR ALLOYS RESULTING FROM UNIFORM DEFORMATION
67-05 M14-68359
X-RAY DIFFRACTION MICROSCOPY TECHNIQUE FOR THE STUDY OF AL SINGLE CRYSTALS 67-05 M14-68533
BIREFRINGENCE, X-RAY TOPOGRAPHY AND ELECTRON MICROSCOPE EXAMINATION OF THE PLASTIC DEFORMATION OF DIAMOND 67-05 M14-68753
PLASTIC DEFORMATION OF THIN COPPER SINGLE CRYSTALS. PT. 1. THE SEPARATE ROLES OF EDGE AND SCREW DISLOCATIONS IN STAGE 1 OF WORK HARDENING
67-05 M17-68296
NEW WORK ON THE X-RAY DETERMINATION OF STRESSES AND INTERNAL DEFORMATION 67-05 M17-68526
X-RAY INVESTIGATION ON THE STRENGTH OF INHOMOGENEOUS METALLIC MATERIALS. ON THE DEFORMATION MECHANISM OF PEARLITIC SPHEROIDAL GRAPHITE CAST IRON 67-05 M17-68528
CONTRIBUTION TO THE STUDY OF THE PLASTICITY OF ZINC
67-05 M17-68541
MICROPLASTICITY OF URANIUM DIOXIDE AT ROOM TEMPERATURE 67-05 M17-68571
TEXTURE STRENGTHENING 67-05 M17-68669
STUDY OF THE DEFORMATION OF GRAIN BOUNDARY REGION IN PURE AL BICRYSTALS 67-05 M17-68874
MECHANICAL STRENGTH AND DEFORMATION
67-05 M17-68997
INFLUENCE OF THE PERIODIC ANTI-PHASE DOMAIN STRUCTURE ON THE MECHANICAL PROPERTIES OF COPPER-PALLADIUM ALLOYS 67-05 M17-69384
DISTRIBUTION OF DEFORMATION IN DRAWING LARGE FORGINGS 67-05 M17-69436
CRITICAL DEFORMATION OF METALS AT RUPTURE UNDER HYDROSTATIC PRESSURE 67-05 M17-69663
FUNDAMENTAL STUDY OF METAL FLOW IN STEEL FORGING. PT. 1 67-06 M07-71316
A CONTRIBUTION TO HEAVY PLATE BENDING
67-06 M07-72031
PLASTIC DEFORMATION AND RECRYSTALLIZATION OF REFRACTORY COMPOUNDS 67-06 M09-71461
METALLOGRAPHIC INVESTIGATIONS ON WC SINGLE CRYSTALS
67-06 M13-70246
DISLOCATION ARRANGEMENT AND STRENGTHENING IN STAGE 2 IN PLASTICALLY DEFORMED GOLD SINGLE CRYSTALS
67-06 M13-71021
DISLOCATIONS AND STAGE 1 PLASTIC DEFORMATION OF GOLD SINGLE CRYSTALS 67-06 M13-71088
YIELDING AND PLASTIC DEFORMATION IN TEXTURED SHEET OF TITANIUM AND ITS ALLOYS 67-06 M13-71609
DEFORMATION OF COPPER CRYSTALS DURING CUTTING BY STANDARD METHODS 67-06 M13-71621
ANOMALOUS TRANSMISSION IN STRAINED DUCTILE AND BRITTLE CRYSTALS BY THE DIVERGENT X-RAY BEAM METHOD 67-06 M14-71283
CALCULATION OF THE DEFORMATION CAUSED BY GRAIN BOUNDARY SLIDING DURING THE CREEP OF POLYCRYSTALLINE SOLIDS 67-06 M14-71626
BY-PASSING OF PRECIPITATES BY PRISMATIC CROSS SLIP
67-06 M14-71722
DEFORMATION AND TEMPERATURE DEPENDENCE OF THE MAGNETIZATION PROCESS IN NICKEL SINGLE CRYSTALS. PT. 2. BLOCH WALL DISPLACEMENTS AND ROTATIONS OF THE SPONTANEOUS MAGNETIZATION IN --001-- NICKEL SINGLE CRYSTALS 67-06 M15-70984
ON THE FRACTURE OF SILICON PARTICLES IN ALUMINUM-SILICON ALLOYS 67-06 M17-69948
TWINNING DURING PLASTIC DEFORMATION OF TITANIUM
67-06 M17-69982
BERYLLIUM 67-06 M17-70016
EFFECTS OF COLD PLASTIC DEFORMATION ON THE HARDENABILITY OF STEEL 67-06 M17-70094
THE EFFECT OF PRELIMINARY PLASTIC DEFORMATION ON THE RESISTANCE OF MATERIALS UNDER THE DYNAMIC EFFECT OF LEAD MELTS 67-06 M17-70328
LOW TEMPERATURE RECOVERY OF POLYCRYSTALLINE ALUMINUM 67-06 M17-70406
THE PLASTIC DEFORMATION OF IRON-11 AT. PER CENT MOLYBDENUM SOLID SOLUTION ALLOY
67-06 M17-70447
RATE OF PROPAGATION OF PLASTIC DEFORMATION IN THE LUDERS BAND 67-06 M17-70592
THE PLASTIC ZONE SIZE AHEAD OF THE PROPAGATING FATIGUE CRACK 67-06 M17-70647
PARAMETERS OF THERMAL CONDITIONS, RIGIDITY OF LOADING AND THEIR EFFECT ON THE APPEARANCE OF PRIMARY AND SECONDARY PLASTIC DEFORMATIONS DURING THERMAL LOAD CYCLING OF A METAL
67-06 M17-70927
ON STRAIN-HARDENING OF MAGNESIUM OXIDE
67-06 M17-70957
DEFORMATION AND ISOTHERMAL ANNEALING BEHAVIOR OF NICKEL 67-06 M17-71042
THE INFLUENCE OF THE TEMPERATURE CYCLE PARAMETERS ON THE PLASTIC DEFORMATION OF ALUMINIUM DURING THERMAL CYCLING 67-06 M17-71223
AN EXPERIMENTAL STUDY OF THE DOUBLE SLIP DEFORMATION HYPOTHESIS FOR FACE-CENTERED CUBIC SINGLE CRYSTALS 67-06 M17-71276
X-RAY STUDY OF WIRE-DRAWN NIOBIUM AND TANTALUM
67-06 M17-71426
DEFORMATION PROPERTIES OF NIOBIUM SINGLE CRYSTALS
67-06 M17-71520
A CRITICAL REVIEW OF THE PEIERLS MECHANISM
67-06 M17-71524
THE EFFECT OF ORIENTATION AND IMPURITIES ON THE MECHANICAL PROPERTIES OF MOLYBDENUM SINGLE CRYSTALS 67-06 M17-71529
PLASTIC ANISOTROPY OF TANTALUM, NIOBIUM, AND MOLYBDENUM 67-06 M17-71530
ORIENTATION DEPENDENCE OF YIELD IN BODY-CENTERED CUBIC METALS 67-06 M17-71531
DEFORMATION AND STRENGTH OF END FILLET WELDS
67-06 M17-71600
DETERMINING DEFORMATION CONNECTED WITH THE GRAIN BOUNDARIES WHEN STRETCHING PD IN A WIDE TEMPERATURE RANGE 67-06 M17-72351
CHARACTERISTICS OF HOT DEFORMATION OF TITANIUM AND ITS ALLOYS 67-07 M07-73439
CALCULATION OF FORCE AND DEFORMATION IN PRESSING SHAPED PROFILES 67-07 M07-73948
DETERMINING THE FORMABILITY OF R18 STEEL AT HIGH LOADING RATES 67-07 M08-73951
MECHANICAL BEHAVIOR OF BERYLLIUM WIRE REINFORCED PLASTIC COMPOSITES 67-07 M09-73338
DISLOCATION DYNAMICS IN DEFORMATION AND RECOVERY
67-07 M13-73057
DISLOCATION DENSITY AND LOCAL SLIP IN GERMANIUM SINGLE CRYSTALS 67-07 M13-73928
STRESS DEPENDENCE OF DISLOCATION CONFIGURATION IN DEFORMED NIOBIUM 67-07 M13-73930
DISLOCATION VELOCITY MEASUREMENTS AND THERMALLY ACTIVATED MOTION IN MOLYBDENUM
67-07 M13-73931
DISLOCATION ARRANGEMENT IN MATERIALS DEFORMED AT HIGH VELOCITY 67-07 M13-74274
SOLUTE DIFFUSION IN PLASTICALLY DEFORMED SILICON CRYSTALS 67-07 M14-72885
THE RECOVERY KINETICS OF DEFORMED COPPER-PALLADIUM AND GOLD-PALLADIUM ALLOYS 67-07 M14-73909
THE EFFECT OF PLASTIC DEFORMATION ON THE RESISTIVITY AND HALL EFFECT OF COPPER-PALLADIUM AND GOLD-PALLADIUM ALLOYS 67-07 M15-73907
PLASTIC DEFORMATION OF IRON WHISKERS
67-07 M17-72410
EFFECT OF THE STRAIN RATE ON THE PLASTIC SHEARING BEHAVIOR OF A MILD STEEL HOLLOW CYLINDER --STUDY ON THE DEPENDENCE OF MECHANICAL PROPERTIES OF METALS UPON THE STRAIN RATE. PT. 3. --
67-07 M17-72523
ELASTOPLASTIC PROPERTIES OF A NUMBER OF METALS EXPOSED TO EXPLOSIVE SHOCK LOADING
67-07 M17-72592
RELATION BETWEEN THE RATE OF CRACK GROWTH AND THE MAGNITUDE OF PLASTIC DEFORMATION
67-07 M17-72593
SLIP DISTRIBUTION IN A THIN SLICE OF A CRYSTAL AT A FREE SURFACE 67-07 M17-72652
EFFECTS OF METALLURGICAL VARIABLES ON DEFORMATION AND FRACTURE 67-07 M17-72745
EFFECTS OF EXTERNAL VARIABLES ON DEFORMATION AND FRACTURE 67-07 M17-72746
INVESTIGATION OF THERMOMECHANICALLY HARDENED STEEL WORKING IN TENSION BY MEANS OF HIGH-SPEED FILMING
67-07 M17-72790

AN X-RAY STUDY ON DEFORMED STRUCTURE OF POLYCRYSTALLINE IRON 67-07 M17-72907
PLASTIC DEFORMATION OF FERROUS OXIDE 67-07 M17-72939
FUNDAMENTAL INVESTIGATIONS INTO EXPLOSIVE FORMING AT MAXIMUM STRAIN RATES 67-07 M17-73026
THERMALLY ACTIVATED DEFORMATION OF ALPHA TITANIUM BELOW 0.4 TM 67-07 M17-73062
THE DEFORMATION ON NIOBIUM SINGLE CRYSTALS 67-07 M17-73064
THE PLASTIC DEFORMATION OF THIN COPPER SINGLE CRYSTALS. PT. 2. AN ELECTRON MICROSCOPE STUDY OF THE SURFACE STRUCTURE 67-07 M17-73070
PROPAGATION OF FINITE AMPLITUDE WAVES IN SINGLE CRYSTALS OF HIGH-PURITY ALUMINIUM 67-07 M17-73140
STRESS-STRAIN STATE IN DEEP DRAWN PARTS OF COMPLEX CONFIGURATIONS 67-07 M17-73442
THE DEFORMATION OF WROUGHT BERYLLIUM 67-07 M17-73763
THE PLASTIC DEFORMATION OF ALNIFE ALLOYS ON THERMAL CYCLING 67-07 M17-73885
THE APPLICATION OF STRAIN-RATE CYCLING DATA TO THERMALLY ACTIVATED DEFORMATION 67-07 M17-73914
SUCCESSIVE STRESS RELAXATION OBSERVED ON MOLYBDENUM POLYCRYSTALS IN PRE-YIELD REGION 67-07 M17-73985
INVESTIGATION OF THE DEFORMATION PROCESSES OF HOT CALIBER ROLLING OF STEEL USING PLASTICINE AS A MODEL MATERIAL 67-08 M07-75770
RHEOLOGICAL PROPERTIES OF STEEL AND LEAD 67-08 M07-75879
CALCULATING WIRE-DRAWING FORCE FROM THE PLASTIC DEFORMATION WHEN STRIP IS DRAWN 67-08 M07-76074
ROLE OF GRAIN BOUNDARIES IN THE DISCONTINUOUS YIELDING OF LOW-CARBON STEELS 67-08 M13-75580
RECOVERY OF BENT COPPER WHISKERS 67-08 M14-76219
CHANGE IN THE SHAPE OF METALS UNDER THE COMBINED ACTION OF THERMAL CYCLES AND EXTERNAL LOADS 67-08 M15-74879
THE DEFORMATION BEHAVIOR OF CR-NI STEELS 67-08 M17-74446
DEFORMATION OF THE ROTOR WINDING OF A TUREC ALTERNATOR. AN EXTREME EXAMPLE OF COPPER SHORTENING 67-08 M17-74501
TOOL WEAR IN STEEL CUTTING 67-08 M17-74522
STUDY OF THE MECHANISM OF PLASTIC DEFORMATION IN UNIRRADIATED AND IRRADIATED LOW CARBON STEEL 67-08 M17-74566
MECHANICAL PROPERTIES OF G13L STEEL IN WORK-HARDENED STATE 67-08 M17-74587
TENSILE DEFORMATION IN IRON SINGLE CRYSTAL PLATES OBSERVED BY THE DIVERGENT X-RAY METHOD 67-08 M17-74603
TENSION TESTS OF REINFORCING STEELS AT GRADUAL TEMPERATURE 67-08 M17-74622
LOW-TEMPERATURE DEFORMATION TECHNIQUES 67-08 M17-74698
TWINNING STRESS IN PRESTRAINED IRON SINGLE CRYSTALS 67-08 M17-75052
FURTHER DEVELOPMENT OF THE EKELUND EQUATION FOR DEFORMATION RESISTANCE. PT. 1. 67-08 M17-75109
REPEATED TENSILE IMPACT TEST ON CARBON STEEL WITH V NOTCHES 67-08 M17-75133
EFFECT OF GAMMA EXPOSURE ON MECHANICAL RELAXATION SPECTRUM OF ALUMINUM IN THE 150 TO 300K TEMPERATURE RANGE 67-08 M17-75274
THE STRUCTURE AND MECHANICAL PROPERTIES OF SHOCK-LOADED STEELS 67-08 M17-75332
EFFECT OF PLASTIC DEFORMATION AND RESIDUAL STRESS ON THE FRACTURE RESISTANCE OF STEELS AT LOW TEMPERATURES 67-08 M17-75401
RESEARCH INTO THE DENSITY OF DEFORMED METALS AND ALLOYS 67-08 M17-75441
STUDY OF IRREGULARITY OF DEFORMATION IN STEEL BY THE GRAPHITIZATION METHOD 67-08 M17-75474
RESIDUAL STRESSES DUE TO DEFORMATION IN A CR STEEL FOLLOWING DIFFERENT SURFACE TREATMENTS 67-08 M17-75507
THE COMPUTATION OF VIBRATIONS, FORCES AND COMPRESSIONS DURING DROP FORGING TESTS 67-08 M17-75570
THE VALIDITY OF THE ASSUMPTION OF PLANE STRAIN CONDITIONS IN PLASTIC DEFORMATION PROCESSES AND YIELD POINT PHENOMENA IN METALS AND ALLOYS 67-08 M17-75576
STUDY OF THE MECHANISM OF STRAIN IN MGO COMPACTS DURING ROASTING 67-08 M17-75597
EFFECT OF PRIOR PLASTIC DEFORMATION OF AUSTENITE ON MS IN AN FE-26 PER CENT NI-0.4 PER CENT C ALLOY 67-08 M17-75818
STUDY OF THE MICROCHARACTERISTICS OF STRAIN IN REAL ALLOYS 67-08 M17-75882
EFFECT OF ALLOYING ELEMENTS ON THE AUSTENITE PROPERTIES OF CR-NI STEELS 67-08 M17-75884
INFLUENCE OF RESIDUAL STRESSES ON PLASTIC DEFORMATION DURING CYCLIC STRESSING OF MACHINE PARTS 67-08 M17-76003
CHANGES IN MAGNETIC PATTERNS AND OXIDATION RATE OF FERRITE CRYSTALS DURING INITIAL STAGES OF ELASTOPLASTIC DEFORMATION 67-08 M17-76229
THE DEFORMATION AND FRACTURE OF TWO-PHASE MATERIALS 67-08 M17-76258
DETERMINATION OF THE STORED ENERGY OF DEFORMATION OF METALS AND ALLOYS 67-08 M19-74699
EXPERIMENTAL STUDY OF THE DISTRIBUTION OF PLASTIC STRAIN DURING VIBRATION UPSETTING WITH PLANE-PARALLEL PLATES 67-09 M07-77362
COUNTER-PIERCING OF BILLETS DURING DEFORMATION IN DOUBLE-SLOT DIES 67-09 M07-77363
DEFORMATION OF ALUMINUM BOTTOMS DURING STAMPING AND SUBSEQUENT FORMING 67-09 M08-77130
SLIP IN ALPHA-PLUTONIUM 67-09 M13-76332
DISLOCATION DISTRIBUTIONS DURING STAGE I DEFORMATION OF SILVER SINGLE CRYSTALS 67-09 M13-76587
DEFORMATION TWINNING IN NI AND FCC FE-NI ALLOYS 67-09 M13-76596
THE DEPENDENCE OF YIELD STRESS ON FOREST DISLOCATION DENSITY IN COPPER SINGLE CRYSTALS 67-09 M13-76598
ALTERATIONS IN THE MICROSTRUCTURE OF TITANIUM ACCORDING TO DEFORMATION CONDITIONS 67-09 M13-77052
THE CASE OF THE HIGH STRENGTH OF HADFIELD STEELS 67-09 M14-76694
LATTICE DEFECTS IN SINGLE CRYSTALS OF COARSE-GRAINED POLYCRYSTALLINE IRON SPECIMENS DURING TENSILE DEFORMATION 67-09 M14-76795
INVESTIGATIONS ON THE DEFORMATION AGE HARDENING OF NITROGEN CONTAINING PURE IRON BY MEASURING THE DAMPING CAPACITY AND STRENGTH 67-09 M14-77350
INFLUENCE OF LIQUID PB-SB ALLOYS ON CRACK FORMATION IN DEFORMED STEEL 67-09 M17-76429
RECOVERY OF THE ELASTIC MODULUS AND THE INTERNAL FRICTION OF COMMERCIAL COPPER AFTER PLASTIC DEFORMATION 67-09 M17-76675
THE PLASTIC DEFORMATION OF 18-8 STEEL 67-09 M17-76815
PLASTIC STRAIN OF HIGH-MELTING POINT COMPOUNDS 67-09 M17-76917
ON THE MECHANISMS OF HIGH-TEMPERATURE PLASTIC DEFORMATION IN PYROLYTIC CARBONS 67-09 M17-77140
DISTRIBUTION OF PLASTIC DEFORMATION IN POLYCRYSTALLINE METALS 67-09 M17-77279
INVESTIGATION OF THE PLASTIC SHOCK WAVE DEFORMATION IN AUSTENITIC SINGLE CRYSTALS 67-09 M17-77348
DISCERNING THE QUALITY CHARACTERISTICS OF LOW-CARBON STEELS BY DAMPING MEASUREMENTS 67-09 M17-77353
THE ENERGY STORED IN COPPER SINGLE CRYSTALS 67-09 M17-77590
THE DEFORMATION BEHAVIOR OF NON-ISO-AXIAL BICRYSTALS OF FE-3 PER CENT SI 67-09 M17-77920
EXPERIMENTAL EVALUATION OF MATERIAL BEHAVIOR IN A WIRE UNDER TRANSVERSE IMPACT 67-09 M17-78102
SEVENTH STATUS REPORT OF THE U. S. GOVERNMENT METALWORKING PROCESSES AND EQUIPMENT PROGRAM 67-10 M01-79734
TENSION DURING PLASTIC STRAINING WITH CROSSWISE DEFORMATION 67-10 M07-78430
EVALUATION OF THE DEFORMATION PROPERTIES WITHOUT RUPTURE OF KH18N10T AND KH18N12M2T --EI448-- STEELS DURING HELICAL CROSS-ROLLING 67-10 M07-78975
STUDIES ON THE HOLLOW CYLINDER UPSETTING TEST AND ITS SUITABILITY TO DETERMINING THE RESISTANCE TO DEFORMATION OF THIN SHEETS 67-10 M07-79061

RESISTANCE AND POSSIBILITY OF DEFORMATION OF ALLOYED CO DURING COLD MILLING AND DRAWING 67-10 M07-79071
INFLUENCE OF ULTRASONICS ON THE UPSETTING OF STEELS THAT ARE DIFFICULT TO WORK 67-10 M07-79671
RESISTANCE TO DEFORMATION AND DEFORMATION EFFICIENCY IN UPSETTING. PT. 1 67-10 M07-79975
CHANGES IN THE FINE STRUCTURE OF ALPHA-IRON DURING ELECTRON MICROSCOPE ITS DEFORMATION INVESTIGATED UNDER THE 67-10 M13-78949
INVESTIGATION OF THE DISLOCATION STRUCTURE OF SILICON DEFORMED DURING THE EASY SLIP STAGE 67-10 M13-79448
STUDY OF THE CHARACTERISTICS OF MARTENSITIC TRANSFORMATION DURING AUSROLLING OF NI STEELS 67-10 M14-79224
RECOVERY OF PLASTICALLY DEFORMED FILAMENTARY CRYSTALS OF COPPER 67-10 M14-79472
CERTAIN SPECIAL FEATURES OF THE PLASTIC DEFORMATION OF COARSE-GRAINED AUSTENITIC STEELS 67-10 M17-78387
THE DEFORMATION OF STEELS AND NONFERROUS METALS BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE OF TRANSFORMATION 67-10 M17-78589
PLASTIC DEFORMATION OF HEXAGONAL COBALT SINGLE CRYSTALS 67-10 M17-78694
ANISOTROPY OF DEFORMED POLYCRYSTALLINE NICKEL 67-10 M17-78707
SECOND-ORDER RESIDUAL STRESSES IN ARMCO IRON DEFORMED IN AN ULTRASONIC FIELD 67-10 M17-78804
THE STRESS-STRAIN DIAGRAM AT THE YIELD POINT OF MILD STEEL 67-10 M17-79062
INVESTIGATION OF ANOMALY IN TEMPERATURE DEPENDENCE OF THE STRENGTH IN COMMERCIALLY PURE NICKEL 67-10 M17-79145
EFFECT OF PLASTIC STRAINING ON THE BRITTLENESS THRESHOLD OF METALLIC COMPOUNDS 67-10 M17-79226
PLASTICITY OF CADMIUM AND ZINC WHISKER CRYSTALS 67-10 M17-79449
CHANGE IN THE SHAPE OF METALS UNDER THE SIMULTANEOUS EFFECTS OF THERMAL CYCLING AND AN EXTERNAL LOAD 67-10 M17-79638
CHANGE IN THE BLOCK STRUCTURE OF ALUMINUM IN THE COURSE OF CREEP 67-10 M17-79650
FLOW STRENGTH AND FRACTURE TOUGHNESS OF 9 NI 4 CO STEEL AS AFFECTED BY STRAIN TEMPERING AND AUSFORMING 67-10 M17-79687
FATIGUE SOFTENING AND HARDENING OF ANNEALED LOW-CARBON STEEL 67-10 M17-79769
ON THE THEORY OF PLASTIC WAVE PROPAGATION IN A BAR 67-10 M17-80005
MICROFRACTOGRAPHIC FEATURES OF THE DIFFERENT BRITTLE FRACTURES ASSOCIATED WITH THE TEMPERING OF STEELS 67-10 M17-80015
A STATISTICAL THEORY OF BRITTLE FRACTURE 67-10 M17-80029
PLASTIC DEFORMATION OF ZIRCONIUM DURING OXIDATION 67-10 M18-79985
MECHANICAL PROPERTIES OF CERAMICS--AN INTRODUCTORY SURVEY 67-11 M05-80669
STRAIN DISTRIBUTION IN RODS MADE BY INVERSE HYDROSTATIC EXTRUSION 67-11 M07-81657
THE DEVELOPMENT OF SLIP BAND STEPS ON THE SURFACE OF ZINC SINGLE CRYSTALS 67-11 M13-80735
INFLUENCE OF DISLOCATION STRUCTURE ON COERCIVE FORCE OF SILICON IRON 67-11 M13-80740
DEFORMATIONS DURING INHIBITION OF TWINS BY BARRIERS 67-11 M13-81166
RECOVERY OF DEFORMED NIOBIUM AND TANTALUM DEGASSED IN ULTRA-HIGH VACUUM 67-11 M14-80632
INFLUENCE OF TYPE OF PLASTIC STRAIN ON THE SECONDARY RECRYSTALLIZATION TEXTURE OF FE-3 PER CENT SI ALLOY 67-11 M14-80732
EFFECT OF PLASTIC STRAIN ON THE STATE OF CARBON SOLID SOLUTION IN QUENCHED STEEL MARTENSITE 67-11 M14-80745
THE BEHAVIOR OF RECRYSTALLIZATION OF PURE IRON AFTER HIGH-SPEED DEFORMATION 67-11 M14-80946
EFFECT OF PLASTIC DEFORMATION ON THE ABSOLUTE THERMOPOWER OF ALPHA-BRASS 67-11 M15-80633
RECOVERY OF THERMOELECTRIC POWER AND ELECTRICAL RESISTIVITY OF GOLD, FOLLOWING SMALL PLASTIC DEFORMATION AT-195 C 67-11 M15-81591
GRAPHITE 67-11 M16-80466
FRACTURE OF POLYCRYSTALS 67-11 M17-80141
THE INFLUENCE OF THE DEGREE OF DEFORMATION ON THE PROPERTIES OF ULTRAPURE STEELS 67-11 M17-80219
A NEW FORMULA FOR THE EXTRAPOLATION OF CREEP TEST RESULTS--AN EXAMPLE OF ITS APPLICATION TO A CR-MO-V STEEL 67-11 M17-80253
PLASTIC DEFORMATION OF TANTALUM SINGLE CRYSTALS. PT. 1. THE SURFACE MORPHOLOGY OF YIELD 67-11 M17-80312
THE EFFECTS OF BIAXIAL STRAIN ON MATERIAL PROPERTIES 67-11 M17-80521
DEFORMATION OF COPPER SINGLE CRYSTALS AND POLYCRYSTALS AT HIGH STRAIN RATES 67-11 M17-80944
APPLICATION OF POTENTIAL FLOW THEORY TO PLANE-STRAIN EXTRUSION 67-11 M17-81024
DETERMINATION OF THE LATENT ENERGY OF PLASTIC DEFORMATION OF COPPER FROM THE DIFFERENCE OF ELECTROLYTIC POTENTIALS 67-11 M17-81051
DEFORMATION THEORY OF HOT PRESSING 67-11 M17-81090
DEFORMATION AND FRACTURE OF GOLD-PLATINUM POLYCRYSTALS STRENGTHENED BY SPINODAL DECOMPOSITION 67-11 M17-81263
DYNAMIC DEFORMATION AGING OF CERTAIN METALS 67-11 M17-81427
TENSION AND DEFORMATION WORK WITH DEVELOPING TRANSVERSE DEFORMATION 67-12 M07-83428
METAL DEFORMATION IN PRODUCTION OF LARGE DIAMETER ELECTRIC-WELDED TUBES 67-12 M07-83432
PREDICTION OF GRAIN DISTORTION AND DEFORMATION ENERGY IN METAL FORMING PROBLEMS BY THE USE OF POTENTIAL THEORY 67-12 M08-82778
PLASTIC DEFORMATION AND RECRYSTALLIZATION OF REFRACTORY COMPOUNDS 67-12 M09-82782
TRANSIENT SOFTENING DURING AGING OF SOME ALUMINUM-BASED SOLID SOLUTIONS 67-12 M10-82977
THE PLASTIC DEFORMATION OF SINGLE CRYSTALS OF VANADIUM AT 298 AND 77 K 67-12 M13-82717
AN X-RAY DIFFRACTION STUDY OF POLYCRYSTALLINE BRASS DEFORMED IN TENSION 67-12 M13-82736
THE IMPORTANCE OF TWINNING FOR THE DUCTILITY OF CPH POLYCRYSTALS 67-12 M13-82739
INFLUENCE OF DEFORMATION ON GRAIN BOUNDARY ATTACK AND THE INITIAL GRAIN BOUNDARY MIGRATION TEMPERATURE 67-12 M13-83496
MAGNETIC AFTER-EFFECT IN DEFORMED COBALT SINGLE CRYSTALS 67-12 M15-82010
THE RECOVERY SPECTRUM OF COBALT 67-12 M15-82011
RECOVERY OF ELECTRICAL RESISTIVITY IN PURE IRON DEFORMED AT 77 K 67-12 M15-83152
PLASTIC STRAINS IN MALLEABLE CAST IRON CASTINGS 67-12 M17-81723
THE EFFECT OF PLASTIC DEFORMATION AND RESIDUAL STRESSES ON THE RESISTANCE OF STEELS TO FRACTURE AT LOW TEMPERATURES 67-12 M17-82022
INTERNAL STRAIN IN PLASTICALLY DEFORMED TENSILE TESTPIECES OF NICKEL OF DIFFERENT PURITIES 67-12 M17-82058
SIMILARITY CRITERIA FOR THE ACTION OF MERCURY ON BRASS 67-12 M17-82181
VARIATION OF INTERNAL FRICTION WITH THE EXTENT OF DEFORMATION IN MONOCRYSTALLINE AND POLYCRYSTALLINE IRON 67-12 M17-82235
HARDNESS CHANGE OF FERROUS MARTENSITE BY DEFORMATION 67-12 M17-82396
AMPLITUDE-DEPENDENT PART OF THE INTERNAL FRICTION OF ALUMINUM 67-12 M17-82561
SURFACE LAYER EFFECTS ON THE PLASTIC DEFORMATION OF IRON AND MOLYBDENUM 67-12 M17-82573
THE INFLUENCE OF SMALL COLD DEFORMATION PRECEDING AGING IN 15 AND 18 PER CENT NICKEL MARAGING STEEL 67-12 M17-82578
PLASTIC DEFORMATION OF LOW-CARBON STEEL AT BRITTLE FRACTURE 67-12 M17-82631
RELATING THE FLOW STRESS OF ALUMINUM TO STRAIN, STRAIN RATE AND TEMPERATURE 67-12 M17-82718
PLASTIC DEFORMATION OF SINGLE-CRYSTAL NIAL 67-12 M17-82755
WORK HARDENING OF SAP AL ALLOYS, PLASTICALLY DEFORMED AT ROOM TEMPERATURE 67-12 M17-82814
STRESS-STRAIN CURVES UNDER VARIABLE STRESSES 67-12 M17-82828
FATIGUE STRENGTH UNDER AXIAL LOADING. PT. 5. STRENGTH OF U-SHAPED BELLOWS 67-12 M17-82829
THE IMPORTANCE OF INTERNAL STRESS IN GRAY OR SPHEROIDAL CAST IRON 67-12 M17-82897
THE EFFECT OF THERMOMECHANICAL TREATMENTS ON THE

PLASTIC DEFORMATION

ELASTIC STORED ENERGY IN TD NICKEL
67-12 M17-82956
RATE-SENSITIVE DEFORMATION IN TIN-LEAD ALLOYS
67-12 M17-82970
THE DEFORMATION OF THIN FOILS UNDER HYDROSTATIC PRESSURE
67-12 M17-83026
STATISTICS FOR THE DISTRIBUTION OF PLASTIC DEFORMATION IN A MONOCRYSTAL OF ALUMINUM
67-12 M17-83302
AUSFORMING STUDY OF THE WORK HARDENING OF METASTABLE AUSTENITE 67-12 M17-83495
DEFORMATION MECHANISMS IN HEXAGONAL METALS WITH A C..A RATIO ABOVE 1.633 67-12 M17-83499
INFLUENCE OF DEFORMATION RATES ON DUCTILITY OF SOME STEELS AND ALLOYS 67-12 M17-83529

PLASTIC DEFORMATION
CONTRIBUTION TO THE STUDY OF ELASTOPLASTIC
CONTRIBUTION TO THE STUDY OF ELASTOPLASTIC BEHAVIOR OF MONOCRYSTALLINES. PT. 1
BEHAVIOR OF MONOCRYSTALLINES. PT. 1
67-12 M17-83577

PLASTIC DEFORMATION, ALLOYING EFFECTS
THE EFFECT OF TRACE ELEMENTS ON THE DEFORMATION BEHAVIOR OF A HIGH-TEMPERATURE NICR STEEL
67-04 M17-67410

PLASTIC DEFORMATION, COMPOSITION EFFECTS
THE DEFORMATION BEHAVIOR OF ZIRCALOY-2 CONTAINING DIRECTIONALLY ORIENTED ZIRCONIUM HYDRIDE PRECIPITATES 67-02 M17-59023
EFFECT OF NITROGEN ON THE STRUCTURE AND PROPERTIES OF AUSTENITIC CHROMIUM-MANGANESE AND CHROMIUM-MANGANESE-NICKEL STEELS 67-02 M17-59057

PLASTIC DEFORMATION, COOLING EFFECTS
THE RELATIONSHIP BETWEEN COOLING CONDITIONS AND MECHANICAL PROPERTIES IN THE MANUFACTURE OF WIRE ROD. PT. 1 67-08 M07-75070

PLASTIC DEFORMATION, HEATING EFFECTS
INFLUENCE OF THERMAL CYCLING ON THE IRREVERSIBLE DIMENSIONAL CHANGES IN ALUMINIUM ALLOY VAD23 SHEET 67-02 M17-59885
STUDY OF THE RECOVERY OF AL TWISTED AT LOW TEMPERATURES 67-05 M17-68873

PLASTIC DEFORMATION, IMPURITY EFFECTS
DEFORMATION OF ANODIC OXIDE FILMS
67-02 M17-61764
INFLUENCE OF DOPING ON THE PLASTIC DEFORMATION OF GALLIUM ARSENIDE SINGLE CRYSTALS
67-06 M17-70514
THE EFFECTS OF PURIFICATION AND REALLOYING ON THE MECHANICAL PROPERTIES OF ZONE-REFINED SINGLE CRYSTALS 67-07 M17-73739

PLASTIC DEFORMATION, PRESSURE EFFECTS
YIELD POINTS AND PLASTIC DEFORMATIONS OF MILD STEEL CYLINDERS UNDER INTERNAL PRESSURE
67-02 M17-58808

PLASTIC DEFORMATION, RADIATION EFFECTS
DEFORMATION OF NEUTRON-IRRADIATED COPPER SINGLE CRYSTALS 67-10 M14-78909

PLASTIC DEFORMATION, STRESS EFFECTS
THE DEFORMATION OF CONTINUOUSLY CAST SMALL CROSS SECTIONS 67-02 M17-59137
NATURE OF PLASTIC DEFORMATION OF TITANIUM ALLOYS WITH VARIOUS FORMS OF LOADS 67-02 M17-60961
THE NATURE AND FORMATION OF BANDS OF DEFORMATION IN SINGLE CRYSTALS OF ALPHA-.HASE COPPER-ALUMINUM ALLOYS 67-07 M14-73055
THE DISTRIBUTION OF RESIDUAL STRESSES OF DEFORMED FACE CENTERED CUBIC METALS
67-07 M17-73850
ON THE INFLUENCE OF QUASI-ELASTIC DEFORMATIONS ON THE MODULUS DEFECT OF COLD WORKED CU
67-09 M17-77747
PLASTIC INSTABILITY RESULTING FROM UNIAXIAL AND BIAXIAL TENSILE STRESS 67-09 M17-78036
EFFECT OF STRAIN RATE ON THE DEFORMATION BEHAVIOR OF IRON AND STEEL AT LOW TEMPERATURES
67-09 M17-78214
DEFORMABILITY OF DEEP-DRAWING SHEETS UNDER BIAXIAL TENSILE STRESS 67-11 M17-80398

PLASTIC DEFORMATION, TEMPERATURE EFFECTS
ELECTRON MICROSCOPIC STUDY OF DEFORMATION BEHAVIOR OF IRON-CHROMIUM ALLOY AGED AT 470 C
67-01 M17-58744
ON THE IMPACT DEFORMATION OF LIGHT METALS
67-05 M17-68862
OPTIMUM TEMPERATURES OF PLASTIC DEFORMATION OF STAINLESS STEELS 67-06 M17-70918
TECHNOLOGICAL DUCTILITY OF STAINLESS AND HEAT-RESISTANT STEELS 67-07 M17-74081
PLASTIC DEFORMATION IN DISPERSION PHASE HARDENED ALUMINUM ALLOYS --SAP ALLOYS--
67-09 M17-78289
CHARACTERISTICS OF PLASTIC DEFORMATION OF TITANIUM AT LOW TEMPERATURES 67-10 M17-78837

PLASTIC DEFORMATION, WELDING EFFECTS
INFLUENCE ON LOCAL JOINT DISTORTION OF THE RIGIDITY OF CLAMPING SHEETS FOR WELDING
67-09 M11-77243

PLASTIC FLOW
SOME X-RAY OBSERVATIONS OF PLASTIC FLOW IN SINGLE CRYSTALS OF IRON 67-01 M17-57428
INFLUENCE OF INTERMEDIATE PRINCIPAL STRESS ON PLASTIC FLOW 67-02 M17-58825
THE SHAPE OF MECHANICAL HYSTERESIS LOOP, ITS DEFORMATION DUE TO STRESS REPETITION AND RESULTING INCREASE IN FLOW STRESS. PT. 1. EXPERIMENT 67-02 M17-58827
DISLOCATION MECHANISMS FOR PLASTIC FLOW IN AN IRON-MANGANESE ALLOY AT LOW TEMPERATURES
67-02 M17-59429
CONTRIBUTION TO THE PLASTICITY OF COPPER WHISKERS
67-02 M17-60124
THE RATE CONTROLLING MECHANISM DURING YIELDING AND FLOW OF ALPHA TITANIUM AT TEMPERATURES BELOW 0.4 TM 67-02 M17-60651
GRAIN-SIZE-DEPENDENCE IN THE FLOW AND FRACTURE OF ALPHA-ZIRCONIUM 67-02 M17-61294
A PRELIMINARY SURVEY OF THE PROPERTIES OF 0.5-5 WT PER CENT COPPER-BERYLLIUM ALLOY SHEET
67-03 M07-65282
AGE HARDENING IN BERYLLIUM 67-03 M10-65254
DISLOCATION THEORY OF SLIP GEOMETRY AND TEMPERATURE DEPENDENCE OF FLOW STRESS IN B. C. C. METALS
67-03 M13-65220
SOLUTION HARDENING IN NIOBIUM 67-03 M14-65221
EFFECT OF PURITY ON TENSILE DEFORMATION IN SINGLE CRYSTALS 67-03 M17-65266
CONTRIBUTION TO THE STUDY OF THE ACTIVATION OF PRISMATIC SLIP IN BERYLLIUM 67-03 M17-65269
THE MEANING OF THE FLOW CURVE OF THIN SHEET
67-03 M17-65570
THE SLIP LINE FIELD IN ROLLING OF THICK STRIP
67-04 M07-67610
SYNAMIC STRAIN AGEING IN MILD STEEL
67-04 M17-66060
UTILIZATION OF PLASTIC FLOW LEADING TO LONG FATIGUE LIFE IN ORDERED ALLOYS 67-04 M17-66127
GRAIN BOUNDARY EFFECTS IN OXIDE DISPERSION-STRENGTHENED ZINC 67-04 M17-66922
ELEVATED-TEMPERATURE DEFORMATION MECHANISMS IN BETA PRIME-NIAL 67-04 M17-66939
CHANGE IN THE SHAPE OF THE FLOW CURVE IN PLASTICALLY DEFORMED STEEL 67-04 M17-67235
RESISTANCE TO DEFORMATION OF COLD EXTRUDING STEELS
67-04 M17-67248
THE DETECTION OF METAL FLOW IN PLASTIC DEFORMATION BY RADIOISOTOPE 67-04 M17-67583
FORMING TITANIUM IN HOT PRESS-WORKING
67-05 M08-69540
DISLOCATION MULTIPLICATION, VACANCY ACCUMULATION, AND THE ONSET OF JERKY FLOW DURING FORWARD AND REVERSED STRAIN IN CU-3.2 AT. PER CENT SN
67-05 M14-68750
X-RAY DIFFRACTION STUDY OF THE GEOMETRY OF PLASTIC FLOW AND DEFORMATION BLOCKING IN MOLYBDENUM SINGLE CRYSTALS 67-05 M17-68844
ATOMISTIC VIEWPOINT IN MATERIALS APPLICATIONS
67-05 M17-69000
TEMPERATURE AND STRAIN RATE DEPENDENCE OF THE FLOW STRESS IN MOLYBDENUM 67-05 M17-69787
ON THE CRITERIA OF METAL DUCTILITY
67-05 M17-69899
SPATIAL DISTRIBUTION OF THE FLOW OF MATERIAL AND OF THE ROLL PRESSURE WITHIN THE ROLL GAP
67-06 M07-71748
THE DEFORMATION OF MGO SINGLE CRYSTALS DOPED WITH TITANIUM AND VANADIUM 67-06 M14-70632
EFFECTS OF CARBIDE SIZE AND SPACING ON INTERSTITIAL AND CARBIDE STRENGTHENING IN A 0.3 PER CENT C STEEL 67-06 M14-70812
THE PLASTIC DEFORMATION OF IRON-11 AT. PER CENT MOLYBDENUM SOLID SOLUTION ALLOY
67-06 M17-70447
RATE OF PROPAGATION OF PLASTIC DEFORMATION IN THE LUDERS BAND 67-06 M17-70592
THE NUCLEATION AND GROWTH OF CLEAVAGE MICROCRACKS IN MILD STEEL 67-06 M17-70622
YIELD AND FLOW OF LOW-CARBON STEEL AT MEDIUM STRAIN

RATES 67-06 M17-70626
YIELDING AND PLASTIC FLOW IN A POLYCRYSTALLINE INTERSTITIAL-FREE FE-0.15 PER CENT TI ALLOY 67-06 M17-71083
DUCTILE AND BRITTLE CRYSTALS 67-06 M17-71285
DISLOCATION CONTRIBUTION TO THE FLOW STRESS OF POLYCRYSTALLINE IRON 67-06 M17-71523
A CRITICAL REVIEW OF THE PEIERLS MECHANISM 67-06 M17-71524
MICROPLASTICITY DETECTED BY AN ACOUSTIC TECHNIQUE 67-06 M17-71535
DEFORMATION OF ALUMINIUM AT HIGH TEMPERATURES AND STRAIN RATES 67-06 M17-71541
THE ORIGIN OF SUPERPLASTICITY IN THE SN-5 PER CENT BI ALLOY 67-06 M17-71957
ON THE ORIENTATION DEPENDENCE OF YIELDING IN BCC METALS 67-06 M17-72235
CHARACTERISTICS OF HOT DEFORMATION OF TITANIUM AND ITS ALLOYS 67-07 M07-73439
RHEOLOGICAL PROPERTIES OF PLASTICIZED POWDER METAL CHARGE. PT. 3. CHARACTERISTICS OF EXTRUSION OF POWDER CHARGE 67-07 M09-72506
THE INFLUENCE OF CARBON AND NITROGEN ON THE FLOW STRESS OF POLYCRYSTALLINE IRON 67-07 M17-72533
LATENT HARDENING AND THE FLOW STRESS IN COPPER SINGLE CRYSTALS 67-07 M17-73067
FRICTIONAL ANISOTROPY IN NONMETALLIC CRYSTALS 67-07 M17-73498
COMPONENTS OF THE FLOW STRESS OF RION 67-07 M17-73924
STUDY OF METAL FLOW IN THE SEAT OF DEFORMATION 67-08 M07-75011
HOW METAL FLOWS IN A DIE 67-08 M07-75924
PROPERTIES OF A PLASTICIZED POWDER CHARGE AND LAWS OF ITS EXTRUSION 67-08 M09-74903
CRACK NUCLEATION IN CRYSTALLINE SOLIDS 67-08 M14-75584
RESEARCH INTO THE RHEOLOGICAL PROPERTIES OF CLASS A-IV HOT ROLLED REINFORCEMENT STEEL 67-08 M17-74896
DISLOCATION DAMPING IN ALUMINUM AT HIGH STRAIN RATES 67-08 M17-75127
THE EFFECT OF STRAIN RATE ON THE FLOW STRESS OF COMMERCIAL PURITY ALUMINUM 67-08 M17-75477
THE STRAIN-RATE DEPENDENCE OF THE FLOW STRESS IN SOME ALUMINUM ALLOYS 67-08 M17-75969
COMPUTER APPLICATION TO THE VISIOPLASTICITY METHOD 67-09 M07-76463
STUDY OF METAL FLOW IMPROVES KNOWLEDGE OF FORGING 67-09 M07-76478
RESISTANCE TO DEFORMATION AND TORQUE WHEN ROLLING IN BREAKING-DOWN PASSES 67-09 M07-76505
CALCULATION OF THE RESISTANCE TO DEFORMATION DURING HOT WORKING 67-09 M07-76693
PLASTIC YIELD IN SOME COPPER-BERYLLIUM ALLOYS 67-09 M17-76901
A NEW METHOD OF DETERMINING EFFECTIVE FLOW STRESS IN PURE IRON AND SOME IRON ALLOYS 67-09 M17-77939
MATERIAL FLOW IN THE HOLLOW DRAWING OF TUBES 67-10 M07-78590
HARDENING MECHANISMS IN A PRECIPITATION HARDENABLE NICKEL-12.71 AT. PER CENT ALUMINIUM ALLOY 67-10 M14-78911
TRUE STRAIN RATE COMPRESSION TESTING IN A CAM PLASTOMETER 67-10 M17-78624
RHEOLOGICAL STUDIES OF PLASTICIZED POWDER CHARGE. PT. 3. LAWS OF EXTRUSION OF PLASTICIZED POWDER CHARGE 67-11 M09-80892
METAL CUTTING AS A PROPERTY TEST 67-11 M17-81023
STRAIN-HARDENING AND STRAIN-RATE EFFECTS IN PLASTIC FLOW THROUGH CONICAL CONVERGING DIES 67-11 M17-81025
FRACTURE BY MICROSCOPIC PLASTIC DEFORMATION PROCESSES 67-11 M17-81100
A THEORY FOR FLOW OF POLYCRYSTALS 67-11 M17-81599
METALLURGICAL PRINCIPLES OF HOT WORKING 67-12 M17-82043
DEFORMATION CHARACTERISTICS OF POLYCRYSTALLINE THORIUM FROM 78 TO 473 K 67-12 M17-82560
INFLUENCE OF PRESSURE UPON THE SINTERING KINETICS OF SILVER 67-12 M17-82579
RELATING THE FLOW STRESS OF ALUMINUM TO STRAIN, STRAIN RATE AND TEMPERATURE 67-12 M17-82718
TEMPERATURE AND ORIENTATION DEPENDENCE OF THE FLOW STRESS IN OFF-STOICHIOMETRIC NI3AL --GAMMA PHASE-- 67-12 M17-82719
MECHANISM OF CREEP IN MGO BRICK 67-12 M17-82993

PLASTIC FLOW, COOLING EFFECTS
A SPECIAL FEATURE OF METAL FLOW IN COOLING MEDIA CONSISTING OF LIQUIDS AND AIR 67-08 M17-75010

PLASTIC FLOW, HEATING EFFECTS
EFFECTS OF HEAT TREATMENT ON THE FLOW STRESS 67-07 M17-73751
THE EFFECTS OF QUENCH AGING, STRAIN AGING, AND SUBSTRUCTURE ON THE TENSILE PROPERTIES OF 1020 STEEL 67-08 M17-76144
THERMALLY ACTIVATED DEFORMATION OF ALPHA ZIRCONIUM 67-11 M14-81347

PLASTIC FLOW, IMPURITY EFFECTS
GRAIN SIZE DEPENDENCE OF THE YIELD STRESS AND THE FLOW STRESS IN PURE IRON 67-06 M17-70788

PLASTIC FLOW, PRESSURE EFFECTS
ULTRAHIGH-VACUUM EFFECTS ON THE MECHANICAL BEHAVIOR OF MOLYBDENUM 67-06 M17-71605
THE FLOW BEHAVIOR OF THICK-WALLED HOLLOW BODIES UNDER INTERNAL PRESSURE 67-08 M17-75107

PLASTIC FLOW, STRESS EFFECTS
STUDY OF THE DEPENDENCE OF MECHANICAL PROPERTIES ON THE STRAIN RATE. PT. 4 67-09 M17-78227
RATE-SENSITIVE DEFORMATION IN TIN-LEAD ALLOYS 67-12 M17-82970

PLASTIC FLOW, TEMPERATURE EFFECTS
STRAIN-RATE AND TEMPERATURE DEPENDENCE OF THE FLOW STRESS OF IRON AND STEEL AT LOW TEMPERATURES 67-09 M17-78215
THE MECHANICAL PROPERTIES OF THREE GAMMA BRASS TYPE INTERMEDIATE PHASES--GAMMA CUZN, GAMMA AGZN, AND GAMMA CUCD 67-12 M17-82864

PLASTIC FLOW, ULTRASONICS
COMPRESSIVE DEFORMATION AFFECTED BY SUPERIMPOSED ULTRASONIC VIBRATION 67-08 M17-74411

PLASTIC LIMIT
A NOTE ON THE THIN EXTENSION OF PLASTIC ZONE IN THE DIRECTION OF THE PATH OF THE MOVING BRITTLE CRACK 67-10 M17-79600

PLASTIC STRAIN
SEE PLASTIC DEFORMATION

PLASTIC WORKING
SEE HOT WORKING

PLASTICITY
SEE ALSO SUPERPLASTICITY
DETERMINATION OF THE AUSFORMING CONDITIONS OF METALS IN THE PLASTIC STATE 67-01 M10-58179
RIGID TEST BODY FOR METAL ADHESIVES 67-01 M11-58299
SUPERPLASTICITY 67-01 M17-57592
PLASTICITY OF BODY-CENTERED CUBIC METALS AT HIGH STRAIN RATE 67-01 M17-58598
THE PLASTIC BEHAVIOR OF PB-SB ALLOYS 67-01 M17-58623
HIGH-TEMPERATURE THERMOMECHANICAL WORKING OF TITANIUM VT15 ALLOY 67-02 M10-58900
THREE SHEAR THEORY OF PLASTICITY 67-02 M17-58822
INFLUENCE OF INTERMEDIATE PRINCIPAL STRESS ON PLASTIC FLOW 67-02 M17-58825
CONTRIBUTION TO THE PLASTICITY OF COPPER WHISKERS 67-02 M17-60124
ON THE DUCTILITY CRITERION IN PRESSURE DEFORMATION OF METALS 67-02 M17-60735
THE MECHANICS OF BRITTLE FRACTURE 67-02 M17-60803
INVESTIGATION INTO PLASTIC BEHAVIOUR OF ZONE REFINED AND PRESTRAINED BE SINGLE CRYSTALS 67-03 M17-65265
CAUSES OF REDUCTION IN DUCTILITY OF WELDED JOINTS IN VT15 ALLOY AFTER QUENCHING 67-04 M11-67169
TRANSFORMATION PLASTICITY DURING THE TEMPERING OF MARTENSITE AND THE TRANSFORMATION OF AUSTENITE TO BAINITE IN A MEDIUM-ALLOY STEEL 67-04 M14-66986
RHEOTROPIC RECOVERY IN BETA BRASS 67-04 M17-67051
MECHANICAL PROPERTIES OF BUTT JOINTS OF ALUMINUM LEADS WELDED BY DIFFERENT TECHNIQUES 67-04 M17-67447
THE STRENGTH AND DUCTILITY OF AUTOMATIC ARGON ARC WELDED JOINTS IN TITANIUM ALLOYS VT14 AND VT6S 67-05 M11-68267
PLASTICITY OF DEFORMED MAGNESIUM 67-05 M17-69268

PLASTICITY

A METHOD FOR MEASURING THE PLASTICITY AND STRENGTH OF LOW-PLASTICITY MATERIALS 67-05 M17-69614
PLASTICITY OF IRON SINGLE CRYSTALS 67-06 M17-71532
MICROPLASTICITY DETECTED BY AN ACOUSTIC TECHNIQUE 67-06 M17-71535
ASSESSING NORMAL ANISOTROPIC PLASTICITY OF SHEET METALS 67-06 M17-71897
MECHANICS OF PROCESSING 67-07 M07-72747
MECHANICAL PROPERTIES--PLASTIC BEHAVIOR 67-07 M17-73684
CONTRIBUTION TO THE THEORY OF PLASTICITY IN STRIP EXTRUSION 67-08 M07-75106
THE ENHANCEMENT OF DUCTILITY IN HIGH-STRENGTH STEELS 67-08 M17-75980
DETERMINATION OF DRAWING HOLE CONFIGURATION REQUIRING MINIMUM DRAWING FORCES IN THE DRAWING OF ROUND ROD AND WIRE 67-09 M08-77082
MICROPLASTICITY IN A CU 1.9 WT PER CENT BE PRECIPITATION-HARDENING ALLOY 67-09 M17-77729
THE PLASTICITY OF BETA AND BETA PRIME INTERMETALLIC COMPOUNDS 67-09 M17-77739
DELAY TIMES, OSCILLATIONS, AND REVERSE STRAINING IN ANNEALED ALUMINUM 67-09 M17-78103
PRACTICAL HINTS FOR COLD DRAWING 67-10 M07-79756
PLASTICITY OF CARBON STEELS IN THE HOT STATE 67-10 M17-79853
PLASTIC YIELDING AND STRAIN DISTRIBUTION IN FILAMENT-REINFORCED METALS 67-11 M17-80679
THE PLASTIC ANISOTROPY RATIO R AND THE WORK HARDENING EXPONENT N IN RELATION TO THE DRAWABILITY OF SHEET METAL 67-11 M17-80716
PLASTICITY OF FE-NI ALLOYS 67-12 M17-81714
APPARATUS FOR DETERMINING THE PLASTICITY OF METALS IN TORSION AT HIGH TEMPERATURES 67-12 M17-82179
PLASTICITY OF MAGNESIUM CRYSTALS 67-12 M17-82763

PLASTICITY, ALLOYING EFFECTS
STUDY OF APPLICATION OF CERIUM-LANTHANUM MISCH METAL IN PRODUCTION OF STAINLESS STEELS 67-07 M04-73120
EFFECT OF LEAD ON MACHINABILITY OF CEMENTED STEELS 67-08 M08-75399
INFLUENCE OF THE ZINC CONTENT AND PRE-COLD WORK ON THE PLASTIC PROPERTIES OF POLYCRYSTALLINE ALPHA BRASSES 67-09 M17-77589
A CAST CHROMIUM STEEL FOR HEAVILY-LOADED COMPONENTS OPERATING AT ELEVATED TEMPERATURES 67-10 M04-79328
CONTRIBUTION ON THE USE OF CERIUM-LANTHANUM MISCH METAL IN THE PRODUCTION OF SPECIAL STEELS 67-10 M04-79675
DEVELOPMENT OF A TECHNOLOGY FOR ROLLING INGOTS IN KH23N18 STEEL 67-11 M07-80859

PLASTICITY, ANISOTROPY
INFLUENCE OF PHOSPHORUS AND COPPER ON THE ANISOTROPY AND DRAWABIILTY OF EXTRAMILD RIMMED STEEL 67-12 M17-83229

PLASTICITY, HEATING EFFECTS
SELECTING AN ANNEALING TEMPERATURE FOR WELDED BRASS CONSTRUCTIONS 67-04 M17-66433
THE EFFECT OF PROLONGED ANNEALING ON THE PROPERTIES OF LARGE FORGINGS 67-07 M10-72760
SELECTING THE STRESS RELIEVING TEMPERATURE FOR BRASS STRUCTURES 67-07 M17-72692
HEAT TREATMENT OF 36G2S STEEL DRIVE PIPES 67-10 M10-78438
EFFECT OF HEAT TREATMENT ON THE STRUCTURE, MECHANICAL PROPERTIES AND CORROSION CHARACTERISTICS OF VTZ-1 ALLOY 67-12 M10-82190
HEAT TREATMENT OF DRILL PIPES MADE FROM 36G2S STEEL 67-12 M10-83436

PLASTICITY, PRESSURE EFFECTS
ULTIMATE PLASTICITY OF METALS DURING TENSION UNDER HIGH PRESSURE 67-10 M17-79223

PLASTICITY, STRESS EFFECTS
THE PLASTICITY OF PURE NIOBIUM SINGLE CRYSTALS 67-05 M17-69465

PLASTICITY, TEMPERATURE EFFECTS
INCREASE IN DUCTILITY AND PLASTICITY OF MARTENSITIC STAINLESS STEELS AT MINUS 196 C. AS THE RESULT OF THE REVERSE MARTENSITIC TRANSFORMATION 67-08 M17-74966

PLASTICITY TESTS
EFFECT OF HEATING TEMPERATURE ON PLASTICITY, STRUCTURE AND MECHANICAL PROPERTIES OF KH17N2 STEEL 67-01 M17-57248
SUPERPLASTIC BEHAVIOR OF A SOLID-SOLUTION SN-I PER CENT BI ALLOY 67-03 M17-65096
MICROPLASTICITY DETECTED BY AN ACOUSTIC TECHNIQUE 67-06 M17-71535

PLASTICIZERS
PROPERTIES OF A PLASTICIZED POWDER CHARGE AND LAWS OF ITS EXTRUSION 67-08 M09-74903
INVESTIGATION OF STRUCTURAL AND MECHANICAL PROPERTIES OF PLASTICIZERS 67-10 M09-79340

PLASTICS
SEE ALSO ACRYLIC RESINS
ALKYD RESINS
EPOXY RESINS
LAMINATED PLASTICS
POLYAMIDE RESINS
POLYESTERS
POLYURETHANE RESINS
POLYVINYL CHLORIDE
REINFORCED PLASTICS
SILICONE RESINS
VINYL RESINS

PLASTICS, CASTINGS
WEAR CONSIDERATIONS IN DESIGN 67-06 M17-70698

PLASTICS, COATING
HOW TO METALLIZE PLASTICS 67-02 M12-61109
COMMERCIAL PROSPECTS OF PLATING ON A.B.S. PLASTICS 67-03 M12-65154
NEW PROCESS FOR ELECTROPLATING ON POLYPROPYLENE 67-03 M12-65327
METALLIZED PLASTICS 67-04 M12-66672
COATING PLASTICS WITH METALS 67-04 M12-66690
PLATED ABS CHALLENGES DIECASTINGS 67-04 M12-67468
THE ELECTROPLATING OF PLASTICS 67-04 M12-68060
WHATS NEW IN ELECTROPLATING 67-06 M12-70031
DEVELOPMENTS IN PLATING PLASTICS 67-06 M12-71235
METALLIZING PLASTICS 67-07 M12-72486
ELECTROLESS PLATING FOR ELECTRONIC APPLICATIONS 67-07 M12-72771
ELECTROPLATED PLASTICS IN THE ELECTRONICS INDUSTRY 67-07 M12-73642
PLATING PLASTICS 67-07 M12-74155
VACUUM METALLIZATION OF POLYMER POWDERS--PREPARATION OF POWDERS AND THEIR THERMOMECHANICAL AND ELECTRICAL PROPERTIES 67-08 M09-75848
THE ELECTROPLATING OF PLASTICS--ITS PRESENT STATUS 67-09 M12-77535
DESIGN CONSIDERATIONS IN PLATING PLASTICS 67-09 M12-77536
THE IMPORTANCE OF MOULDING CONDITIONS TO THE QUALITY OF ELECTROPLATED ABS PLASTICS 67-09 M12-77537
INFLUENCES OF THERMOPLASTIC CONVERSION OF A B S POLYMERS ON THE SUBSEQUENT CHEMICAL-ELECTROLYTIC METAL DEPOSITION 67-09 M12-77538
METAL PLATING OF A B S AND OTHER POLYMERS 67-09 M12-77539
THE ADHESION TESTING OF ELECTROPLATED COATINGS ON A B S MOLDINGS 67-09 M17-77540
CORROSION TESTING OF PLATED A B S MOLDINGS 67-09 M18-77541
TROUBLE SHOOTING IN PLATING ON PLASTICS 67-10 M12-79310
INORGANIC--NEW TECHNIQUE FOR METAL DEPOSITION--NITROGEN FIXED TO METAL--BORDING AND EXCHANGE BEHAVIOR 67-11 M12-80533
RECENT DEVELOPMENTS IN DECORATIVE NICKEL/CHROMIUM-PLATING PROCESSES IN THE UNITED KINGDOM 67-11 M12-80635

PLASTICS, COATINGS
PLASTIC LINED ALUMINUM SHEET 67-01 M01-57460
PLASTIC LINED STEEL CONTAINERS 67-01 M12-57299
THE PLASTIC COATING OF METAL PARTS BY FLAME SPRAYING 67-02 M12-59415
STUDY OF METHODS OF PRODUCTION AND PROPERTIES OF PLASTIC-COATED STEEL SHEETS 67-02 M12-60083
PLASTIC COATING OF WIREWORK 67-04 M12-66636
TEMPORARY CORROSION PREVENTIVES 67-05 M18-68416
PRODUCTION OF PLASTIC-LINED PIPES 67-05 M18-69692
ELECTROSTATIC POWDER COATINGS 67-07 M12-72935
MANUFACTURE AND USE OF PLASTIC-LINED PIPES 67-07 M18-74078

PLASTICS, COMPOSITE MATERIALS
PLASTIC-ALUMINIUM COMPOSITES 67-08 M11-76183

PLASTICS, CORROSION
CORROSION RESISTANCE OF STRUCTURAL MATERIALS IN SODIUM CHLORITE SOLUTIONS 67-04 M18-66591
PLASTICS, FIBER METALLURGY
MECHANICAL BEHAVIOR OF BERYLLIUM WIRE REINFORCED PLASTIC COMPOSITES 67-07 M09-73338
PLASTICS, GLUING
ADHESION OF METALS AND PLASTICS 67-09 M11-78188
PLASTICS, MECHANICAL PROPERTIES
THE CREEP STRENGTH OF MATERIALS, AND HOW IT IS AFFECTED BY CORROSION 67-10 M17-79094
PLASTICS, PIPE
COMPOSITE PIPES OF STEEL AND PLASTICS 67-10 M20-79092
PLASTICS, PLATING
ELECTROPLATING OF PLASTIC MOULDINGS 67-05 M12-68799
THEORY AND PRACTICE IN THE PLATING OF ABS PLASTICS. PT. 2 67-05 M12-68902
PLASTICS, WELDING
LOCK-SEAL--NEW ULTRASONIC PLASTIC WELDING TECHNIQUE 67-09 M11-78144

PLATE /COATINGS/
SEE PLATING
PLATE /METAL/
SEE ALSO BOILER PLATE
THE PROPERTIES OF NORMALIZED AND TEMPERED AND OF QUENCHED AND TEMPERED 6-1/4-INCH-THICK PLATES OF 2-1 4CR-1MO STEEL 67-03 M17-65001
PLATE /METAL/, CASTING
RATE OF RISE OF AL ALLOYS IN A SAND MOLD 67-03 M06-65593
EFFECT OF METAL QUALITY ON THE PROCESS OF RISERING FROM CAST IRON 67-04 M06-66096
FILLABILITY OF MOLDS AND DENSITY OF PLATE-TYPE CASTINGS IN CASTING ALUMINUM ALLOYS UNDER LOW PRESSURE 67-08 M06-75192
PLATE /METAL/, CHEMICAL ANALYSIS
RESEARCH, USING RADIOACTIVE ISOTOPES, INTO THE EFFECTS OF REFRACTORY PRODUCTS ON THE AMOUNT OF NONMETALLIC INCLUSIONS IN STEEL 67-04 M19-66012
PLATE /METAL/, COATING
INFLUENCE OF CATHODE HYDROGEN ON STRUCTURE AND PROPERTIES OF GOLD GALVANIC COATINGS 67-04 M12-67290
EFFECTS OF THE TYPE OF CURRENT WAVES AND ADDITION AGENTS ON THE FORMATION OF ELECTRODEPOSITED NUCLEI. PT. 2 67-10 M12-79607
PLATE /METAL/, CORROSION
THE AEI/MORGAN CATHODIC PROTECTION SYSTEM FOR NAVAL VESSELS 67-05 M18-68502
CORROSION-FATIGUE CRACK PROPAGATION IN MODERN HIGH-PERFORMANCE STRUCTURAL STEELS 67-08 M18-75974
SOME NOTES ON CURRENT DISTRIBUTION IN CATHODIC PROTECTION SYSTEMS 67-10 M18-79429
PLATE /METAL/, CRYSTAL GROWTH
METHOD FOR PREPARATION OF THIN, ORIENTED GAAS CRYSTALS 67-03 M14-65897
PLATE /METAL/, CUTTING
THERMAL CUTTING--PROBLEMS, TRENDS AND ACHIEVEMENTS 67-01 M08-58400
GAS-ELECTRIC CUTTING OF ALUMINUM ALLOYS IN THICKNESSES TO 150 MM 67-02 M11-59529
PLASMA ARC CUTTING OF ALUMINIUM ALLOYS 67-02 M11-60013
FLAME CUTTING TO TIGHT SPECS 67-03 M08-65037
CONSIDERATIONS RELATING TO THE QUALITY OF THE FLAME CUT SURFACE OF STEEL PLATE 67-04 M08-66726
GAS-ELECTRIC CUTTING OF ALUMINUM ALLOYS UP TO 150 MM THICK 67-04 M11-66478
BEHAVIOR OF ARC DURING PLASMA CUTTING OF METAL 67-04 M11-67004
MEASURING FIELD INTENSITY IN A PERMEATING ARC 67-04 M11-67005
ARC POWER SUPPLY FOR PLASMA-ARC CUTTING OF METALS 67-04 M11-67018
PLASMA ARC CUTTING OF ALUMINIUM ALLOYS IN A MIXTURE OF ARGON AND AMMONIA 67-05 M11-68272
ARC BEHAVIOR IN THE PLASMA CUTTING OF METALS 67-08 M11-74763
FIELD STRENGTH MEASUREMENTS IN THE PENETRATING ARC 67-08 M11-74764
A POWER SOURCE FOR PLASMA ARC CUTTING 67-08 M11-74777
INVESTIGATION OF THE VARIOUS PARAMETERS INFLUENCING THE MACHINING OF A SHAPED GROOVE BY FLAME CUTTING 67-09 M08-77977
PLATE /METAL/, DIFFUSION
ON THE PRECIPITATION OF COPPER IN SILICON CRYSTALS OF DIFFERENT REAL STRUCTURE 67-07 M14-73895
PLATE /METAL/, DIMENSIONAL ANALYSIS
EXPERIENCE WITH A RADIOMETRIC THICKNESS GAGE FOR PLATES IN THE OLBERNHAU SHEET ROLLING MILL 67-08 M19-74450
PLATE /METAL/, ELECTRICAL PROPERTIES
ELECTRICAL RESISTIVITY OF SINGLE CRYSTAL CRO2 67-03 M16-65649
PLATE /METAL/, FATIGUE /MATERIALS/
PROPERTIES OF LOW-ALLOY WELDING STEELS USED TO MANUFACTURE RAILWAY ROLLING STOCK 67-04 M17-67826
PLATE /METAL/, FORMING
HIGH ENERGY-RATE FORMING SOME UNUSUAL APPLICATIONS 67-06 M07-70865
FORM OF THE SURFACES OF THE GROOVE AND OF THE WORKING CONE FOR COLD ROLLED FORMING PIPES 67-06 M08-71399
FORMING PLATE, SHEET AND FOIL 67-08 M08-74843
PLATE /METAL/, HEAT TREATMENT
HEAT TREATMENT OF LARGE PLATES OF WAKAYAMA STEEL WORKS 67-01 M10-58251
HOT HARDNESS OF HARD SURFACED LAYER OF VARIOUS MATERIALS 67-04 M10-66454
STEEL PLATE QUENCHING AND TEMPERING PLANT IN INDIANA 67-06 M10-70025
STRESS RELIEVING GOES UNDERGROUND 67-07 M10-73694
QUENCH AND TEMPER INSTALLATION AT BETHLEHEMS BURNS HARBOR PLANT 67-07 M10-74222
FINISHING AND HEAT TREATMENT OF HEAVY PLATES 67-08 M10-74752
DEVELOPMENT IN EQUIPMENT AND PRACTICES FOR QUENCHING STEEL PLATES. PT. 1 67-08 M10-75498
DEVELOPMENT IN EQUIPMENT AND PRACTICES FOR QUENCHING STEEL PLATES. PT. 2 67-09 M10-77745
THE HEAT TREATMENT OF STEEL PLATES 67-10 M10-79303
RED HARDNESS OF HARDFACINGS OF DIFFERENT MATERIALS 67-11 M10-80995
PLATE /METAL/, MECHANICAL PROPERTIES
THE POSSIBILITY OF REPLACING 10HSNCU STEEL BY NICKEL FREE STEEL 67-01 M17-57995
ALUMINUM AND ALUMINUM ALLOYS IN SHEET, PLATE AND TUBE FORM 67-01 M17-58306
INFLUENCE OF ANNEALING ON CREEP STRENGTH OF KH18N10T STEEL WELDS 67-02 M17-60133
CRACK ANALYSIS AS A METHOD OF DETERMINING FRACTURE CHARACTERISTICS 67-02 M17-60669
NEW DATA ON STEEL FOR HYDROCRACKING 67-03 M17-65810
CRACK PROPAGATION RESISTANCE IN STRUCTURAL STEELS 67-04 M17-66357
EFFECT OF NOTCH ON DISTRIBUTION OF FIELDS OF TEMPERATURE STRESSES 67-04 M17-66428
ROLLING HISTORY IN RELATION TO THE TOUGHNESS OF SHIP PLATE 67-04 M17-66682
A SURVEY OF SOME RECENT BRITISH WORK ON THE BEHAVIOR OF WARSHIP STRUCTURES 67-04 M17-66710
THE EFFECTS OF STABILIZING ANNEALING ON THE LONG TIME STRENGTH OF JOINTS IN KH18N10T STEEL 67-04 M17-67673
STUDY OF THE BEHAVIOR OF WELDED JOINTS INCORPORATING DESIGN DEFECTS UNDER UNIAXIAL TENSION LOADING 67-05 M17-68785
INFLUENCE OF VACUUM POURING ON SOME PHYSICAL AND MECHANICAL PROPERTIES OF STRUCTURAL STEEL 67-05 M17-69009
THE STRENGTH AND COLD RESISTANCE OF AMG5V ALLOY AND ITS WELDED JOINTS AT LOW TEMPERATURES 67-05 M17-69041
CROSS TRAVEL OF ARC AS A FACTOR IN IMPROVING THE STRUCTURE AND PROPERTIES OF WELDED JOINTS 67-05 M17-69406
THE POSSIBILITY OF BRITTLE FRACTURE OF ALUMINUM ALLOY WELDED JOINTS 67-05 M17-69408
EFFECTS OF NOTCHES ON THE DISTRIBUTION OF TEMPORARY THERMAL STRESS FIELDS 67-07 M17-72687
THE DEFORMATION BEHAVIOR OF CR-NI STEELS 67-08 M17-74446
ELEVATED TEMPERATURE YIELD AND 0.2 PER CENT PROOF

PLATE /METAL/
STRESS PROPERTIES OF CARBON STEEL PLATES, WITH PARTICULAR REFERENCE TO THE VALUES SPECIFIED IN B.S. 1501..1964 67-08 M17-74500
NEW AUSTENITIC STAINLESS STEELS 67-08 M17-75101
CRACKS IN THE BOTTOM PLATING AT THE STERN OF A SHIP 67-08 M17-75535
THE EFFECT OF CROSS ROLLING ON THE ANISOTROPIC PROPERTIES OF HOT ROLLED PLATE 67-08 M17-75803
A NOTE ON THE INFLUENCE OF CUTTING SPEED ON THE HARDNESS OF FLAME CUT BS. 968 --1962-- STEEL 67-09 M17-76359
ELEVATED TEMPERATURE PROPERTIES OF ALUMINUM BRONZE --ALLOY D-- PARENT METAL, ROD AND WELD METAL 67-09 M17-76360
RESIDUAL STRESSES AND STRAIN ENERGY IN BUTT WELDS 67-09 M17-77815
WEAVING THE ARC AS A FACTOR IN IMPROVING THE STRUCTURE AND PROPERTIES OF WELDED JOINTS 67-10 M17-78510
BRITTLE FRACTURE IN WELDED JOINTS IN ALUMINIUM ALLOYS 67-10 M17-78512
HIGH YIELD SHIP STEELS 67-11 M17-80934
RESISTANCE OF STRUCTURAL STEEL TO PROPAGATION OF BRITTLE CRACKS 67-11 M17-80959
THE EFFECT OF STRUCTURAL MICROHETEROGENEITIES UPON THE STRENGTH OF PLATES WITH HYPERBOLIC NOTCHES 67-12 M17-82433
QUENCHED AND TEMPERED GRADE 18G2A STEEL FOR WELDED STRUCTURES 67-12 M17-82496
PLATE /METAL/, MECHANICAL TESTS
INTRODUCTION TO FRACTURE TOUGHNESS 67-07 M17-72487
PLATE /METAL/, METAL FORMING
EXPLOSIVE FORMING OF THICK METAL PLATES 67-10 M08-78470
PLATE /METAL/, METAL WORKING
PRODUCTION OF 30-100 MM STAINLESS AUSTENITE SHEET AT THE WITCOWICE GOTTWAID PLANT 67-01 M07-58165
NEW TECHNIQUES IN RIGID METAL CONTAINER MANUFACTURE 67-01 M08-57548
STRAIGHTENING OF STRUCTURAL COMPONENTS IN THE SHAPE OF PLATES WITH THE AID OF EXPLOSIVES 67-01 M08-58283
INFLUENCE OF STRAIGHTENING ON TEXTURE AND MECHANICAL PROPERTIES OF MA2-1 MG ALLOY PLATES 67-02 M17-59768
A CONTRIBUTION TO HEAVY PLATE BENDING 67-06 M07-72031
ATMOSPHERIC PRESSURE FORMS TITANIUM PANELS 67-07 M08-72987
INFLUENCE OF STRAIGHTENING ON THE TEXTURE AND MECHANICAL PROPERTIES OF SHEETS OF THE MA2-1 ALLOY 67-08 M17-76126
THREE AXIS PLATE PUNCHING 67-09 M08-77697
REACTOR PRESSURE VESSELS--DESIGN-FABRICATION-TESTING 67-09 M20-77546
PLATE /METAL/, NONDESTRUCTIVE TESTING
METHODS FOR MEASURING DENSITY AND THICKNESS OF OBJECTS BY SCATTERING COLLIMATED GAMMA-RAYS 67-02 M19-58941
EXCITATION OF LAMB WAVES IN THICK PLATES BY ULTRASONIC IMPULSES 67-03 M19-65602
INVESTIGATIONS INTO THE NONDESTRUCTIVE TESTING OF SPOT WELDS IN THICK PLATE WITH ULTRASONIC WAVES 67-07 M19-73714
EXCITATION CONDITIONS FOR LAMB WAVES IN THICK PLATES BY MEANS OF ULTRASONIC PULSES 67-08 M19-74527
PLATE /METAL/, POWDER METALLURGY
ON POWDER ROLLING PROCESS 67-04 M09-67585
PLATE /METAL/, ROLLING
REPUBLICS NEW PLATE MILL AT GADSDEN 67-06 M07-71005
TECHNICAL AND ECONOMIC CONSIDERATIONS IN PLATE MILL PROCESS CONTROL 67-07 M07-72427
OPTIMIZING THE PERFORMANCE OF A UNIVERSAL PLATE MILL BY COMPUTER 67-07 M07-72801
ACCURACY OF NOMINAL WIDTH OF PLATE ROLLED ON REVERSING PLATE MILLS 67-07 M07-74142
MEASURING, INDICATING AND RECORDING IN HEAVY AND MEDIUM PLATE ROLLING MILLS 67-08 M19-76288
160-IN. PLATE MILL--DESIGN AND PERFORMANCE 67-12 M07-83592
PRELIMINARY THERMOMECHANICAL TREATMENT OF CARBON STEEL 67-12 M08-82413
PLATE /METAL/, THERMAL PROPERTIES
THERMAL STRESSES IN PLATES DURING INTERMITTENT HEAT CYCLING 67-06 M17-70298
PLATE /METAL/, THICKNESS
THICKNESS MEASUREMENT OF STEEL PLATE WITH GAMMA-RAY THICKNESS GAGE 67-08 M19-75806
PLATE /METAL/, WELDING
ASSEMBLY AND WELDING SEQUENCE FOR A 68,000 TON TANKER RUDDER 67-01 M11-58144
MANUAL ARC WELDING HYDROGEN RESISTANT, 60 MM GAGE 5 PER CENT CR-0.5 PER CENT MO SHEET STEEL 67-01 M11-58164
BRITISH DEVELOPMENTS IN THE USE OF STEEL TO B.S. 968..1962 IN WELDED CONSTRUCTION 67-01 M11-58524
WELDABILITY OF HEAT TREATED LOW ALLOY 15GF STEEL 67-02 M11-60004
CO2 ARC WELDING OF SHIP HULLS 67-02 M11-60130
WELDING TECHNOLOGY IN SHIP CONSTRUCTION. PT. 2. ONE-SIDE BUTT WELDING--EQUIPMENT, TOOLS AND TECHNOLOGY 67-02 M11-60983
PROCEDURES FOR WELDING CONSTRUCTIONAL STEELS 67-02 M11-61653
STUDY OF DEFORMATION OF CROSS JOINTS IN HEAVY-GAGE COILED STRUCTURES 67-02 M11-62167
DOUBLE-SPOT WELDING OF HOT ROLLED METAL WHICH IS COVERED WITH SCALE 67-02 M11-62171
AUTOMATIC WELDING OF THICK SECTIONS 67-03 M11-65063
THERMAL CYCLE OF THE WELD-AFFECTED ZONE IN ELECTROSLAG WELDING OF ALUMINUM ALLOYS 67-04 M11-66806
SOME PROBLEMS IN SPOT WELDING OF STRUCTURAL UNITS 67-04 M11-67009
TEE TWIN SPOT WELDING OF HOT ROLLED METAL COATED WITH SCALE 67-04 M11-67172
THE DEFORMATION OF TRANSVERSE BUTT JOINTS IN STRUCTURES MADE FROM COILED PLATE METAL 67-04 M11-67176
CO2 WELDING OF SHIPS HULL STRUCTURES 67-04 M11-67670
EFFECT OF EDGE PREPARATION ON THE AMOUNT OF PARENT METAL IN THE WELD METAL 67-04 M11-67811
SEMIAUTOMATIC WELDING OF LOCOMOTIVE FORGINGS USING A SELF-SHIELDING WIRE 67-04 M11-67813
WELDING HIGH-ALLOYED STAINLESS STEELS UNDER CERAMIC FLUX 67-05 M11-69407
ELECTROSLAG WELDING OF HEAVY-GAGE KH17N13M3T STEEL 67-05 M17-69416
BUDGET PRICED MACHINE MAKES WELDED 3-PIECE CANS FROM PREFINISHED ALUMINUM 67-06 M11-70229
EFFECT OF EDGE PREPARATION ON THE PROPORTION OF PARENT METAL IN THE WELD METAL 67-06 M11-70311
SEMI-AUTOMATIC WELDING OF STRUCTURES FOR DIESEL LOCOMOTIVES WITH SELF SHIELDING ELECTRODES 67-06 M11-70313
MECHANIZED VERTICAL WELDING UTILIZING THE GAS METAL-ARC PROCESS 67-06 M11-71679
CHARACTERISTICS OF WELDING OF STRUCTURAL STEEL REFINED IN A LADLE WITH SYNTHETIC SLAG 67-06 M11-71840
AUTOMATIC WELDING OF OKH13 STEEL IN CO2 67-06 M11-71850
REQUISITES FOR MANUAL ARC WELDING IN THE SHIP-BUILDING INDUSTRY WITHOUT BEVELING EDGES 67-06 M11-71873
DEFORMATION AND STRENGTH OF END FILLET WELDS 67-06 M17-71600
SPECIFIC HEAT ENERGY OF ARC IN SOME WELDING PROCESSES WITH CONSUMABLE ELECTRODES 67-07 M11-72732
CONCERNING THE SELECTION OF ADDITIONAL HEATING PARAMETERS FOR WELDED THIN SHEET VL-1D STEEL 67-07 M11-72733
BINDING MECHANISM IN EXPLOSION WELDING 67-07 M11-73715
SOME ASPECTS OF SPOT WELDING IN STRUCTURAL ENGINEERING 67-08 M11-74768
THE THERMAL CYCLE IN THE HEAT AFFECTED ZONE DURING THE ELECTROSLAG WELDING OF ALUMINIUM ALLOYS 67-08 M11-75910
HYDRODYNAMIC CONTROL OF ARC FUSION DURING CO2-SHIELDED ARC WELDING WITH CONSUMABLE ELECTRODE 67-10 M11-78407
ELECTROSLAG WELDING OF BLAST FURNACE JACKETS 67-10 M11-78420
THE SUBMERGED ARC WELDING OF HIGH ALLOY STAINLESS STEELS WITH CERAMIC FLUXES 67-10 M11-78511
TRANSITION TO TURBULENT FLOW IN CRYSTALS

67-10 M11-78695
APPLICATION OF ELECTRO-GAS WELDING PROCESS TO SIDE SHELL PLATES OF HIGH-SPEED CARGO LINERS
67-10 M11-79492
THE ELECTROSLAG WELDING OF KH17N13M3T STEEL PLATE
67-10 M17-78520
WELDING STRUCTURAL STEEL WHICH HAS BEEN REFINED IN THE LADLE WITH MOLTEN SYNTHETIC SLAG
67-11 M11-80872
THE AUTOMATIC CO2 WELDING OF GRADE OKH13 STEEL
67-11 M11-80882
DUCTILE INSERT FOR WELDING STEEL TO ALUMINUM
67-12 M11-82075
EFFECTIVE HEAT INPUT WHEN WELDING WITH A CONSUMABLE ELECTRODE 67-12 M11-82311
SECONDARY HEATING IN THE WELDING OF VL-1D STEEL
67-12 M11-82312
PROPERTIES OF ELECTROSLAG WELDS OF AMG6 AL ALLOY
67-12 M11-82624
ELECTROSLAG WELDING OF ALUMINUM AND ITS ALLOYS
67-12 M11-82636
VERTICAL MECHANIZED MIG WELDING OF ALUMINUM
67-12 M11-83162
ELECTROSLAG WELDING OF STACK SHELL OF A BLAST FURNACE 67-12 M11-83418

PLATES /FUEL/
SEE FUEL ELEMENTS

PLATES /STRUCTURAL MEMBERS/, MECHANICAL PROPERTIES
APPLICATION OF DUCTILE IRON FOR CIVIL ENGINEERING
67-11 M20-81533

PLATING
SEE ALSO ALLOY PLATING
ALUMINUM PLATING
BARREL PLATING
BLACK PLATING
BRIGHT PLATING
BRUSH PLATING
CADMIUM PLATING
CEM PROCESS
CHROMIUM PLATING
COBALT PLATING
COPPER PLATING
DIFFUSION PLATING
DUPLEX PLATING
ELECTROCLADDING
ELECTROLESS PLATING
ELECTROPLATING
FLAME PLATING
FLASH PLATING
GOLD PLATING
IMMERSION PLATING
LEAD PLATING
NICKEL PLATING
ROLL PLATING
SILVER PLATING
TIN PLATING
ULTRASONIC PLATING
VAPOR PLATING
ZINC PLATING
ZINCATE PROCESS
THE INTIIAL STAGE OF ELECTRODEPOSITION OF TUNGSTEN ALLOYS BY USING RADIOISOTOPE W185. PT. 5. STUDIES OF ELECTRODEPOSITION OF TUNGSTEN ALLOYS 67-01 M12-58614
USE OF MULITLAYER COATINGS FOR CORROSION PROTECTION OF SPRINGS IN WATER AT HIGH
67-01 M18-58706
MODERN FINISHING PROCESSES FOR ALUMINIUM AND ITS ALLOYS 67-02 M12-62287
DEVELOPMENTS IN METAL COATINGS AT LOCKHEED MISSILES
67-06 M12-70642
PROGRESS IN NOBLE METAL PLATING. PT. 5
67-06 M12-71813
METAL FINISHING GUIDEBOOK DIRECTORY FOR 1967
67-08 M12-76203
PLATING STEEL TUBES WITH ZIRCALOY-2 TUBES BY SWAGING 67-11 M08-80384

PLATING, DESIGN
DESIGN CONSIDERATIONS IN PLATING PLASTICS
67-09 M12-77536

PLATINUM, ALLOYING ADDITIVE
PHOTOELECTRIC PROPERTIES OF SILICON DOPED WITH COPPER, TUNGSTEN AND PLATINUM
67-05 M16-69380
THE ACTIVITY OF COPPER IN SOLID COPPER-PLATINUM ALLOYS AND SOME OBSERVATIONS ON THE ORDERING OF CU3PT 67-09 M15-77926
AN X-RAY DIFFUSE SCATTERING MEASUREMENT OF LOCAL LOCAL ORDER IN A PD-PT ALLOY 67-11 M14-80183
CRYSTALLOGRAPHY OF THE FCC TO BCC MARTENSITIC TRANSFORMATION IN AN IRON-PLATINUM ALLOY
67-12 M14-82865
CHEMICAL AND MAGNETIC ORDER IN PTNI ALLOY
67-12 M15-81771

PLATINUM, ATOMIC PROPERTIES
DISPERSION ENERGIES AND SURFACE TENSIONS OF NOBLE METALS 67-08 M16-75384
LEAST-SQUARE DETERMINATION OF THE BINDING ENERGY OF A DIVACANCY IN PLATINUM FROM THE ISOTHERMAL ANNEALING CURVES 67-08 M16-75824

PLATINUM, BAND THEORY
INTERPOLATION SCHEME FOR BAND STRUCTURE OF NOBLE AND TRANSITION METALS--FERROMAGNETISM AND NEUTRON DIFFRACTION IN NI 67-03 M16-65027

PLATINUM, BINARY SYSTEMS
THE SYSTEM PLATINUM-GERMANIUM 67-01 M13-57496
PROPERTIES OF THE FREE ENERGY ASSOCIATED WITH THE INTERDIFFUSION OF TWO SOLIDS 67-04 M15-66064
MUTUAL DIFFUSION IN SOME BINARY SYSTEMS WHICH FORM CONTINUOUS SERIES OF SOLID SOLUTIONS
67-07 M14-73476
THE SYSTEM PLATINUM-GERMANIUM 67-09 M13-78137
THERMODYNAMICS OF IRON-PLATINUM ALLOYS
67-12 M15-82751

PLATINUM, COATING
INFLUENCE OF CATHODE HYDROGEN ON STRUCTURE AND PROPERTIES OF GOLD GALVANIC COATINGS
67-04 M12-67290
THE ANODIC DEPOSITION OF IRON OXIDE FILMS ON PLATINUM 67-09 M12-77888
FABRICATION OF COMPUTER MEMORY STORES BY ELECTROPHORESIS--DEPOSITION OF FERRITES ON TO PLATINUM WIRES 67-10 M12-78721
NUCLEATION IN ELECTROLYTIC METAL DEPOSITION
67-11 M12-80806

PLATINUM, COATINGS
PRECIOUS METAL PLATING BATHS AND THEIR PRACTICAL APPLICATIONS 67-01 M12-58303
SCIENCE FOR ELECTROPLATERS. PT. 113. PLATINUM
67-04 M12-66509
MEASURING ELECTRODEPOSIT THICKNESS. A BETA BACK-SCATTER METHOD FOR THE PLATINUM METALS
67-05 M19-69287
ELECTRODEPOSITION OF THICK COATINGS OF PLATINUM AND PALLADIUM ON REFRACTORY METALS FROM AQUEOUS ELECTROLYTES 67-11 M12-80396

PLATINUM, CORROSION
CORROSION RESISTANCE OF PLATINUM, COPPER NICKEL, AND TANTALUM IN LIQUID OXYGEN DIFLUORIDE
67-09 M18-77893
POTENTIODYNAMIC STUDY OF IRON AND PLATINUM IN MOLTEN ALKALI METAL NITRATES 67-12 M18-83150

PLATINUM, CRYSTAL GROWTH
RECRYSTALLIZATION OF SUPPORTED PLATINUM
67-06 M14-70662
EXPERIMENTAL EVIDENCE FOR PSEUDOMORPHIC GROWTH OF PLATINUM ON GOLD 67-06 M14-72220

PLATINUM, CRYSTAL LATTICES
REMOVAL OF SINGLE INTERSTITIALS FROM IRRADIATED PLATINUM 67-02 M14-61596
ON THE BEHAVIOR OF VACANCIES IN PURE METALS
67-04 M14-67309
POINT-DEFECT STUDIES IN PLATINUM BY ELECTRON IRRADIATION AT LOW TEMPERATURES. PT. 1. DEFECT PRODUCTION 67-06 M14-69914
POINT-DEFECT STUDIES IN PLATINUM BY ELECTRON IRRADIATION AT LOW TEMPERATURES. PT. 2. RESISTIVITY RECOVERY FROM 10 TO 300 K
67-06 M14-69915
ATOMIC STRUCTURE OF PLATINUM CRYSTALS ELECTROLYTICALLY OVERGROWN ON FIELD-ION MICROSCOPE TIPS 67-07 M13-72630
MECHANICAL TWINNING OF PLATINUM AND IRIDIUM IN A FIELD-ION MICROSCOPE 67-10 M13-78667
KINETICS OF QUENCHED-IN VACANCIES IN PURE PLATINUM
67-10 M14-79008

PLATINUM, DIFFUSION
LOSS OF PLATINUM OXIDE FROM HEATED PLATINUM--A BOUNDARY LAYER DIFFUSION MECHANISM
67-06 M18-72267
SURFACE SELF-DIFFUSION OF NICKEL AND PLATINUM
67-08 M14-75128
THERMAL DIFFUSIVITY OF PLATINUM FROM 300 TO 1200 K
67-11 M14-81083

PLATINUM, ELECTRICAL PROPERTIES
THE ELECTRICAL RESISTANCE OF PLATINUM AT REPEATED QUENCHING. PT. 1. THE REVERSIBLE CHANGE
67-02 M15-61096

PLATINUM

THE ELECTRICAL RESISTIVITY OF THERMOMETRICALLY PURE PLATINUM BELOW 11 K 67-04 M16-68162
ON THE METHODS OF MEASURING CHANGES OF ELECTRICAL RESISTIVITY 67-04 M16-68163
THE THERMAL CONDUCTIVITY AND ELECTRICAL RESISTIVITY OF POLYCRYSTALLINE METALS OF THE PLATINUM GROUP AND OF SINGLE CRYSTALS OF RUTHENIUM 67-05 M15-68210
THE CHANGE IN ELECTRICAL RESISTANCE OF METALS DURING MULTIPLE QUENCHING 67-06 M15-70591
THE ELECTRICAL RESISTANCE OF PLATINUM AT REPEATED QUENCHING. PT. 2. THE IRREVERSIBLE CHANGE 67-06 M15-70716
POTENTIOSTATIC CURRENT-POTENTIAL MEASUREMENTS ON A PLATINUM ELECTRODE IN A HIGH-PURITY CLOSED SYSTEM 67-06 M15-72167
IDEAL RESISTIVITY OF PLATINUM BELOW 20 K 67-08 M15-74794
TWO-BAND CONDUCTION IN PT, W, AND PB 67-11 M16-80325

PLATINUM, ELECTRODES
PREVENTION OF CORROSION IN PAPERMAKING MACHINES. CATHODIC POLARIZATION WITH PLATINUM-TITANIUM ANODES 67-05 M18-69418

PLATINUM, EXTRACTION
METHOD OF RECOVERING METALS OF THE PLATINUM AND GOLD GROUPS 67-02 M03-59599
METHOD OF EXTRACTING PLATINUM FROM ALUMOPLATINUM CATALYST WASTE 67-09 M03-76837

PLATINUM, HEAT TREATMENT
THE REFINEMENT OF PLATINUM BY ANNEALING IN AIR 67-11 M14-80320

PLATINUM, INTERMETALLICS
LAVES PHASES OF THE SCANDIUM GROUP ELEMENTS WITH RUTHENIUM, RHODIUM, OSMIUM, IRIDIUM, AND PLATINUM 67-02 M13-59443
EFFECT OF SPECIMEN SIZE ON FORMATION OF MAGNETIC PROPERTIES IN CO-PT ALLOY 67-04 M15-66483
ANTIFERRO-FERROMAGNETIC TRANSITION IN FE --PTPD--3 ALLOYS 67-04 M15-67662
MAGNETIC STRUCTURE TRANSFORMATION IN MNPT 67-05 M15-69375
DOMAIN STRUCTURE OF ORDERED EQUIATOMIC PT-CO OBSERVED IN THE FIELD-ION MICROSCOPE 67-07 M14-72629
INVESTIGATION OF THE FIRST-ORDER MAGNETIC TRANSFORMATION IN MN3PT 67-07 M15-73550
THE SYSTEM PLATINUM-GERMANIUM 67-09 M13-78137
SOME NEW PHASES OF THE MN5SI3 TYPE 67-12 M14-82052

PLATINUM, IRRADIATION
THE IDENTIFICATION OF SMALL QUANTITIES OF MATERIAL BY EXO ELECTRONS 67-06 M19-72143
ANNEALING STUDIES OF IRRADIATED PLATINUM 67-12 M13-82521

PLATINUM, MAGNETIC RESONANCE
PRESSURE-DEPENDENCE OF THE KNIGHT SHIFT IN POLYCRYSTALLINE BETA TIN, LEAD, AND PLATINUM 67-02 M16-60535

PLATINUM, MECHANICAL PROPERTIES
WEAR AND FRICTION OF THE PLATINUM METALS. PERFORMANCE IN SLIDING CONTACTS 67-05 M17-69282
THERMAL FATIGUE IN METALS WITH CLOSE-PACKED CUBIC LATTICES 67-10 M17-79738

PLATINUM, MELTING
METALLOGRAPHIC OBSEPVATIONS ON SPECIMENS OF A PLATINUM MELT STRONGLY OVERHEATED IN GRAPHITE CRUCIBLES 67-11 M14-80701

PLATINUM, METALLOGRAPHY
ELECTROPOLISHING OF PLATINUM FOILS AT -35 C. FOR TRANSMISSION ELECTRON MICROSCOPY 67-07 M13-72665

PLATINUM, MICROSTRUCTURE
KINKING DURING ANNEALING OF PLATINUM WIRE 67-04 M13-67158
THE EFFECT OF THE DEGREE OF PURITY ON SOME PROPERTIES OF HIGH-MELTING MATERIALS 67-05 M14-68580
FIELD ION MICROSCOPY OF THE PLATINUM METALS 67-07 M13-72878
INFLUENCE OF IMPURITIES ON THE CHANGES IN PLATINUM SURFACE AS INDICATED BY FIELD ION MICROSCOPY 67-11 M13-80602
GRAIN BOUNDARY DISPLACEMENT IN A METAL UNDER THE EFFECT OF AN ELECTRIC FIELD 67-11 M14-80247

PLATINUM, PHYSICAL PROPERTIES
MICROMETHOD FOR DETERMINING THE FUSION POINTS OF REFRACTORY COMPOUNDS 67-05 M15-68705
THE SPECIFIC HEATS OF HIGH-MELTING METALS AT HIGH TEMPERATURES AND THE FORMATION OF VACANCIES IN THEM 67-10 M15-78347
THE KINETICS OF PROPANE ADSORPTION ON PLATINUM IN HYDROFLUORIC ACID 67-10 M15-79961
MELTING CURVES OF COPPER, SILVER, GOLD, AND PLATINUM TO 70 KBAR 67-12 M15-82527

PLATINUM, POWDER METALLURGY
OXIDE DISPERSION-STRENGTHENED PLATINUM 67-05 M09-68945

PLATINUM, RADIATION EFFECTS
RADIATION ANNEALING IN DEUTERON-IRRADIATED GOLD, ALUMINUM, AND PLATINUM 67-05 M16-69803
RECOVERY OF DEUTERON-IRRADIATED GOLD, ALUMINIUM, AND PLATINUM 67-05 M16-69804

PLATINUM, REACTIONS /CHEMICAL/
SUPPORTED PLATINUM METAL CATALYSTS--THEIR SELECTION AND METHODS OF USE IN INDUSTRIAL PROCESSES 67-07 M14-72876
PLATINUM OXIDATION KINETICS WITH CONVECTIVE DIFFUSION AND SURFACE REACTION 67-09 M18-76622
CONSIDERATIONS AND EXPERIMENTS FOR A CRITICAL EVALUATION OF THE PT-COATED TI ANODES 67-11 M18-80804

PLATINUM, SURFACE PROPERTIES
CHEMISORBED OXYGEN STRUCTURES ON THE RHODIUM --110-- SURFACE 67-02 M14-61075
THE KINETICS OF SESSILE-DROP SPREADING IN REACTING METAL-METAL SYSTEMS 67-03 M15-65080
THE TEMPERATURE DEPENDENCE OF THE SURFACE ENERGY ANISOTROPY OF PLATINUM 67-03 M15-65808
THE WETTING OF PLATINUM AND ITS ALLOYS BY GLASS. PT. 1 67-07 M15-72880

PLATINUM, TEMPERATURE MEASURING INSTRUMENTS
QUALITY AND THERMOELECTRIC DEVIATION OF EXISTING THERMOCOUPLES 67-01 M15-57612
PLATINUM FOR RESISTANCE THERMOMETRY. EFFECTS OF SURFACE CONTAMINATION 67-05 M20-69285
RECENT ADVANCES IN INDUSTRIAL PLATINUM RESISTANCE THERMOMETRY 67-05 M20-69417
EFFECT OF THERMAL SHOCKING ON MINCO MODEL S1059 PLATINUM RESISTANCE THERMOMETERS 67-06 M17-70836

PLATINUM, TERNARY SYSTEMS
THE WETTING OF PLATINUM AND ITS ALLOYS BY GLASS. PT. 3. MICROSTRUCTURE AND MECHANICAL PROPERTIES OF GOLD-RHODIUM-PLATINUM ALLOYS 67-05 M14-69419
ELECTROLYTIC A-C CORROSION OF POLYELECTRODE SYSTEMS 67-08 M18-74623

PLATINUM, THERMAL PROPERTIES
THE THERMAL CONDUCTIVITY OF PLATINUM BETWEEN 300 AND 1000 K 67-03 M15-65693
AN APPARATUS FOR MEASURING THERMAL EXPANSION AT ELEVATED TEMPERATURES 67-08 M15-76156

PLATINUM, THIN FILMS
PLATINUM AND PALLADIUM METALLIZING PREPARATIONS 67-05 M12-69731
ORIENTED GROWTH OF THE INTERFACIAL PTSI LAYER BETWEEN PT AND SI 67-11 M16-81205

PLATINUM BASE ALLOYS, CHEMICAL ANALYSIS
ANALYSIS OF BINARY ALLOYS FROM THE THERMO-EMF AND TEMPERATURE COEFFICIENT OF ELECTRICAL RESISTIVITY 67-05 M19-69306

PLATINUM BASE ALLOYS, COATINGS
THE ELECTROLYTIC DEPOSITION OF PT AND PT ALLOYS WITH EMPHASIS ON INCREASED HARDNESS 67-12 M12-83084

PLATINUM BASE ALLOYS, CRYSTAL LATTICES
LATTICE PARAMETERS OF SOME H. C. P. BINARY ALLOYS OF RHENIUM AND OSMIUM-- RE-W, RE-IR, RE-PT, OS-IR, OS-PT 67-05 M13-68222
ORDERED PT3-CO ALLOY STUDIED IN THE FIELD-ION MICROSCOPE 67-12 M14-82365

PLATINUM BASE ALLOYS, ELECTROCHEMISTRY
PLATINUM METAL ALLOYS IN ELECTROCATALYSIS 67-05 M15-69717

PLATINUM BASE ALLOYS, MAGNETIC PROPERTIES
CHANGE IN PARAMAGNETIC PROPERTIES AND STRUCTURE DURING ORDERING OF NIPT AND NI3PT ALLOYS 67-01 M15-57693
ROTATING HYSTERESIS IN PLATINUM-COBALT ALLOYS 67-01 M15-58060
PROBLEM OF DETERMINING THE MAGNETIC ANISOTROPY CONSTANTS OF A COBALT-PLATINUM ALLOY 67-01 M15-58061
MAGNETIC PROPERTIES OF ORDERED PT-CO 67-01 M15-58658

THE MAGNETIC SUSCEPTIBILITIES OF PD-CD, PD-SB AND PT-CU BINARY ALLOYS 67-02 M15-59060
MAGNETOSTRICTION OF A CO-PT ALLOY 67-02 M15-59661
EFFECT OF PLASTIC DEFORMATION AND HEAT TREATMENT ON THE MAGNETIC ANISOTROPY OF A CO-PT ALLOY 67-02 M15-59662
EFFECT OF HEAT TREATMENT ON THE MAGNETIC PROPERTIES OF A COBALT-PLATINUM ALLOY 67-02 M15-59955
SATURATION MAGNETIZATION IN THE ALLOY CO-PT 67-02 M15-61937
EQUIATOMIC TRANSITION METAL ALLOYS OF MANGANESE. PT. 5. ON THE MAGNETIC PROPERTIES OF THE PTMN PHASE 67-04 M16-68157
TEMPERATURE-MAGNETIC HYSTERESIS IN THE HIGH-COERCIVITY ALLOY CO-PT 67-05 M15-68259
COBALT-PLATINUM ROTORS FOR SMALL SYNCHRONOUS DEVICES--ECONOMICS OF DESIGN AND CONSTRUCTION 67-05 M20-69715
FERROMAGNETIC RESONANCE IN A SERIES OF ALLOYS. PT. 2. BINARY ALLOYS OF COBALT WITH PLATINUM AND PALLADIUM, AND ONE IRON-PALLADIUM ALLOY 67-06 M15-72087
COBALT-PLATINUM ALLOY MAGNETS--EFFECT OF HIGH TEMPERATURES ON MAGNETIC PROPERTIES 67-06 M15-72266
THE THEORY OF MAGNETIC HARDNESS OF PLATINUM COBALT 67-07 M15-72956
EFFECT OF STRUCTURAL STATE ON THE MAGNETIC PROPERTIES OF A CO-PT ALLOY 67-08 M15-74648
EXPERIMENTAL INVESTIGATION ON EXCHANGE INTERACTION IN PLATINUM-IRON ALLOYS 67-11 M15-80661

PLATINUM BASE ALLOYS, MECHANICAL PROPERTIES
SHORT-TIME STRENGTH OF PLATINUM, PALLADIUM AND THEIR ALLOYS AT 1100 TO 1400 C 67-09 M17-77417
DEFORMATION AND FRACTURE OF GOLD-PLATINUM POLYCRYSTALS STRENGTHENED BY SPINODIDAL DECOMPOSITION 67-11 M17-81263

PLATINUM BASE ALLOYS, PHASE TRANSFORMATIONS
METASTABILITY OF STRUCTURAL FORMS OF COPPER-PLATINUM ALLOYS NEAR THE STOICHIOMETRIC COMPOSITION CU3PT 67-05 M14-69226

PLATINUM BASE ALLOYS, PHASES /STATE OF MATTER/
PREPARATION AND X-RAY INVESTIGATION OF PLATINUM ALLOYS WITH THE RARE-EARTH METALS --PT5LN AND PT3LN PHASES-- 67-05 M14-68218
ELECTRON MICROSCOPIC EXAMINATION OF HIGH-COERCIVE COBALT-PLATINUM ALLOYS 67-05 M14-69790

PLATINUM BASE ALLOYS, PHYSICAL PROPERTIES
THE WETTING OF PLATINUM AND ITS ALLOYS BY GLASS. PT. 2. RHODIUM-PLATINUM ALLOYS AND THE INFLUENCE OF GOLD 67-05 M15-69719

PLATINUM BASE ALLOYS, REACTIONS /CHEMICAL/
PLATINUM METAL ALLOYS IN ELECTROCATALYSIS. A FURTHER EVALUATION OF RELATIVE ACTIVITIES 67-05 M15-69288

PLATINUM BASE ALLOYS,
A RHODIUM-PLATINUM THERMOCOUPLE FOR HIGH TEMPERATURES 67-05 M20-69286

PLATINUM BASE ALLOYS, THERMAL PROPERTIES
THERMODYNAMIC PROPERTIES OF COPPER-PLATINUM ALLOYS 67-03 M15-65098
THE LATTICE THERMAL CONDUCTIVITY OF SOME PALLADIUM AND PLATINUM ALLOYS 67-12 M15-82547

PLATINUM BASE ALLOYS, THERMOCOUPLES
A RHODIUM-PLATINUM THERMOCOUPLE FOR HIGH TEMPERATURES 67-05 M20-69732

PLATINUM BASE ALLOYS, THERMODYNAMICS
THE LOW TEMPERATURE SPECIFIC HEAT OF SOME DILUTE PLATINUM-IRIDIUM AND PLATINUM-GOLD ALLOYS 67-03 M15-65365

PLATINUM METALS
SEE ALSO IRIDIUM
OSMIUM
PALLADIUM
PLATINUM
RHODIUM
RUTHENIUM
THE PLATINUM METALS AND THEIR ALLOYS--A REVIEW OF THEIR ELECTRONIC STRUCTURE AND CONSTITUTION 67-06 M13-72268

PLATINUM METALS, MAGNETIC PROPERTIES
TEMPERATURE DEPENDENCE OF MAGNETIC SUSCEPTIBILITY OF RU, RH, OS, IR AND PT BETWEEN 80 AND 1850 K 67-12 M15-82227

PLATINUM METALS, REACTIONS /CHEMICAL/
REACTIONS OF OXYGEN WITH THE PLATINUM METALS. PT. 2. OXIDATION OF RUTHENIUM, RHODIUM, IRIDIUM AND OSMIUM 67-05 M18-69284

PLIABILITY
SEE FLEXIBILITY

PLIERS
SEE HAND TOOLS

PLUG ROLLING
AN ASSESSMENT OF A COMBINED ROTARY PIERCING AND ELONGATING PROCESS FOR TUBE MAKING 67-07 M07-72813
THREE ROLL PIERCER FOR BETTER TUBES 67-07 M07-73127
THREE-ROLL PIERCER--NEW SYSTEM OF SEAMLESS STEEL TUBEMAKING 67-07 M07-73621
INTENSE RESEARCH ACHIEVES BIG ADVANCE IN TUBING 67-10 M07-78772

PLUG ROLLING, AUTOMATION
IMPROVING ROLLING TECHNOLOGY AND DESIGN OF THE FINISHING STANDS IN PLANT INCLUDING AUTOMATIC MILLS 67-07 M07-74079

PLUGS
MANUFACTURING POROUS CERAMIC PLUGS FOR BOTTOM BLOWING OF STEELS IN LADLES 67-06 M05-70562

PLUMBING, MATERIALS
SPACECRAFT PLUMBING SYSTEMS 67-05 M11-68674

PLUTONIUM, ATOMIC PROPERTIES
ELECTRONIC BAND STRUCTURES OF PLUTONIUM AND ITS MONOCARBIDE 67-09 M16-76317
THE DETERMINATION OF ELECTRON BINDING ENERGIES IN PLUTONIUM WITH PHOTO-ELECTRON SPECTROSCOPY 67-09 M16-76320

PLUTONIUM, BINARY SYSTEMS
PHASE DIAGRAMS. PT. 2 67-01 M13-58505
STUDIES OF THE BINARY SYSTEMS PLUTONIUM-GOLD PLUTONIUM-GALLIUM AND PLUTONIUM-INDIUM 67-09 M14-76321
PHASE EQUILIBRIA STUDIES ON THE ALUMINIUM-PLUTONIUM SYSTEM 67-09 M14-76322
PHASE DIAGRAMS OF PLUTONIUM WITH THE METALS OF GROUPS IIA, IVA, VIIIA AND IB 67-09 M14-76326
THERMODYNAMIC AND PHASE STUDIES FOR PLUTONIUM AND URANIUM-PLUTONIUM OXIDES WITH APPLICATION TO COMPATIBILITY CALCULATIONS 67-09 M14-76349
PHASE RELATIONS IN THE ZINC-RICH PORTION OF THE PLUTONIUM-ZINC SYSTEM 67-11 M14-80316
THE PLUTONIUM-LANTHANUM SYSTEM 67-12 M13-82868

PLUTONIUM, CHEMICAL ANALYSIS
TOTAL-BURN SPECTROGRAPHIC DETERMINATION OF SILICON IN PLUTONIUM 67-07 M19-73876

PLUTONIUM, CORROSION
OBSERVATIONS ON THE ATMOSPHERIC OXIDATION OF PLUTONIUM METAL 67-09 M18-76335

PLUTONIUM, CRYSTAL GROWTH
GRAIN GROWTH OF ALPHA PLUTONIUM UNDER HYDROSTATIC PRESSURE 67-12 M14-83518

PLUTONIUM, CRYSTAL LATTICES
SLIP IN ALPHA-PLUTONIUM 67-09 M13-76332

PLUTONIUM, DIFFUSION
STUDY OF THE SELF-DIFFUSION OF PLUTONIUM IN THE EPSILON PHASE 67-02 M14-62296
DIFFUSION OF PLUTONIUM IN THE SOLID STATE 67-09 M14-75323

PLUTONIUM, ELECTRICAL PROPERTIES
SELF-IRRADIATION DAMAGE IN TRANSURANIC ELEMENTS AND COMPOUNDS 67-09 M15-76314

PLUTONIUM, EXTRACTION
EXTRACTION OF PLUTONIUM FROM URANIUM-PLUTONIUM ALLOY WITH URANIUM TRICHLORIDE 67-04 M14-68119
TUNGSTEN CRUCIBLES IN PYROCHEMICAL PROCESSING OF NUCLEAR FUELS 67-06 M01-70714
THE SEPARATION AND PREPARATION OF PU238 FROM NEUTRON IRRADIATED NP237 TARGET 67-07 M03-74014
PLUTONIUM RECOVERY FROM SCRAP 67-08 M03-74927
STUDIES ON THE SOLVENT EXTRACTION OF ACTINIDE ELEMENTS BY ORGANOPHOSPHORUS COMPOUNDS 67-08 M03-75302
LARGE SCALE PROCESSING OF HIGHLY IRRADIATED PLUTONIUM BY SOLVENT EXTRACTION AND ION EXCHANGE 67-09 M03-76474
GAS EVOLUTION IN PLUTONIUM REDUCTIONS 67-12 M03-81829
APPLICATION OF LIQUID-LIQUID EXTRACTION TO THE TREATMENT OF IRRADIATED COMBUSTIBLES. PT. 2 67-12 M16-81801
SIMULTANEOUS SEPARATION OF THE ELEMENTS RA, PU, U, AM AND CM FROM IRRADIATED THORIUM 67-12 M16-82238

PLUTONIUM

APPLICATION OF LIQUID-LIQUID EXTRACTION TO THE TREATMENT OF IRRADIATED FUELS. PT. 1. PHYSICO-CHEMICAL ASPECTS 67-12 M16-82280
PLUTONIUM, FUEL ELEMENTS
INFLUENCE OF MANUFACTURING PARAMETERS ON THE QUALITY OF FUEL ELEMENTS CONTAINING PLUTONIUM 67-01 M05-58542
STATUS OF METALLIC PLUTONIUM FAST POWER BREEDER FUELS 67-09 M16-76327
PLUTONIUM, GRAIN GROWTH
THE PRESSURE/TEMPERATURE BEHAVIOR OF PURE PLUTONIUM 67-09 M14-76310
PLUTONIUM, INTERMETALLICS
CRYSTAL STRUCTURES AND DENSITIES. INTERMETALLIC PHASES. PT. 3 67-01 M13-58507
A GAMMA-PHASE IN THE PLUTONIUM-MERCURY SYSTEM 67-01 M13-58537
PLUTONIUM, MECHANICAL PROPERTIES
PHASE TRANSFORMATION DAMAGE IN PLUTONIUM 67-02 M17-59050
STEADY-STATE CREEP OF PLUTONIUM 67-09 M17-76333
PLUTONIUM, MICROSTRUCTURE
TRANSMISSION ELECTRON MICROSCOPY OF PU-1 WT PER CENT GA 67-07 M13-74240
PLUTONIUM, NUCLEAR FUELS
THE INFLUENCE OF NEUTRON RADIATION UPON PLUTONIUM CONTAINING SOLIDS 67-09 M16-76352
PLUTONIUM. PLUTONIUM METAL AND ALLOYS 67-09 M16-77309
PLUTONIUM, NUCLEAR METALLURGY
THE MACHINING OF NUCLEAR MATERIALS 67-04 M08-67297
PLUTONIUM 1965 67-09 M01-76301
PLUTONIUM, NUCLEAR PROPERTIES
THE PROMISE OF PLUTONIUM 67-10 M01-79375
PLUTONIUM, OXIDATION
THE KINETICS OF OXIDATION OF PLUTONIUM METAL AND A PLUTONIUM-3.4 AT. PER CENT ALUMINUM ALLOY AT TEMPERATURES FROM 140 TO 550 C 67-03 M18-65420
SOME OBSERVATIONS ON THE OXIDATION OF UNALLOYED AND DELTA-STABILIZED PLUTONIUM METAL 67-09 M18-76334
PLUTONIUM, PHASE TRANSFORMATIONS
CHARACTERISTICS OF BETA TO ALPHA AND ALPHA TO BETA TRANSFORMATIONS IN PLUTONIUM 67-06 M14-71613
TRANSFORMATION AND DEFORMATION IN PLUTONIUM 67-09 M14-76302
THE BETA TO ALPHA PHASE TRANSFORMATION IN HIGH PURITY PLUTONIUM 67-09 M14-76303
STUDIES ON THE EQUILIBRIUM TEMPERATURE FOR THE ALPHA TO BETA TRANSFORMATION 67-09 M14-76304
THE BETA TO ALPHA TRANSFORMATION IN SMALL SPECIMENS OF PLUTONIUM METAL 67-09 M14-76305
TRANSFORMATION KINETICS OF THE ALPHA TO BETA AND DELTA TO ALPHA TRANSITIONS IN PURE AND ALLOYED PLUTONIUM 67-09 M14-76306
STUDY OF ALLOTROPIC TRANSFORMATION OF PLUTONIUM 67-09 M14-76307
THE KINETICS OF THE ALPHA TO BETA TO ALPHA TRANSFORMATIONS IN SOME DILUTE PLUTONIUM ALLOYS 67-09 M14-78264
CALORIMETRIC STUDIES OF DELTA, DELTA PRIME AND EPSILON PLUTONIUM 67-10 M19-79592
PLUTONIUM, PHYSICAL PROPERTIES
THE SOLUBILITIES OF CARBON, TANTALUM, TUNGSTEN AND RHENIUM IN LIQUID PLUTONIUM 67-06 M15-70890
PHYSICAL PROPERTIES OF ALPHA PLUTONIUM AND DELTA PU-PHASE ALLOYS AT LOW TEMPERATURES 67-09 M15-76311
SOME PHYSICAL PROPERTIES OF PLUTONIUM AT LOW TEMPERATURES 67-09 M15-76312
SOME PHYSICAL PROPERTIES OF PLUTONIUM METAL AT LOW TEMPERATURES 67-09 M15-76313
THE BAND STRUCTURE, SPECIFIC HEAT, MAGNETIC SUSCEPTIBILITY, AND ANOMALOUS THERMAL EXPANSION OF DELTA PLUTONIUM 67-09 M15-76316
STUDY OF ELONGATION VARIATIONS OF ALPHA PLUTONIUM BY SELF-IRRADIATION AT 4 K 67-11 M14-80606
LIQUID PLUTONIUM--A REVIEW OF ITS PHYSICAL PROPERTIES 67-11 M15-80543
PLUTONIUM, REACTIONS /CHEMICAL/
DIFFUSION IN THE PLUTONIUM-URANIUM SYSTEM 67-02 M14-60747
PREPARATION AND PROPERTIES OF SOME GROUPS V AND VI COMPOUNDS OF PLUTONIUM 67-09 M15-76343
PLUTONIUM, REFINING
THE PURIFICATION OF PLUTONIUM BY ANION EXCHANGE IN NITRIC ACID 67-11 M16-80196
PLUTONIUM, TERNARY SYSTEMS
THE TERNARY SYSTEM PLUTONIUM-CERIUM-COBALT 67-03 M14-65087
PHASE EQUILIBRIA IN THE TERNARY SYSTEM PLUTONIUM-CERIUM-IRON 67-09 M14-76324
CONSTITUTIONAL STUDIES ON THE TERNARY SYSTEM PLUTONIUM-MOLYBDENUM-CARBON, PLUTONIUM-SILICON-CARBON AND PLUTONIUM-THORIUM-CARBON 67-09 M14-76345
A STUDY OF PLUTONIUM OXIDES AND THEIR SOLUBILITY IN URANIUM DIOXIDE 67-09 M14-76346
THE URANIUM-PLUTONIUM-OXYGEN TERNARY PHASE DIAGRAM 67-12 M13-82998
PLUTONIUM, THERMAL PROPERTIES
THERMAL CONDUCTIVITY OF PLUTONIUM METAL 67-07 M15-72840
PLUTONIUM, THERMODYNAMICS
THERMODYNAMICS OF DILUTE SOLUTIONS OF PLUTONIUM IN LIQUID MAGNESIUM 67-01 M15-57405
THERMOCHEMICAL PROPERTIES. PT. 1 67-01 M15-58504
PLUTONIUM BASE ALLOYS, ATOMIC PROPERTIES
HALL EFFECT AND ELECTRONIC STRUCTURE OF VARIOUS ACTINIDE METALS 67-09 M16-76319
PLUTONIUM BASE ALLOYS, CORROSION
EFFECT OF OXYGEN AND NITROGEN IN TANTALUM ON ITS RESISTANCE TO CORROSION BY LIQUID PLUTONIUM ALLOYS 67-11 M18-80544
PLUTONIUM BASE ALLOYS, GRAIN GROWTH
CRITICAL STRAIN AND THE GROWTH OF LARGE GRAINS OF THE PU-1 WT PER CENT GA ALLOY 67-03 M14-65861
PLUTONIUM BASE ALLOYS, IONIZATION
HIGH-TEMPERATURE IONIZATION CHAMBER FOR DETECTING LOW-LEVEL PLUTONIUM CONTAMINATION 67-01 M15-58586
PLUTONIUM BASE ALLOYS, MAGNETIC PROPERTIES
MAGNETIC SUSCEPTIBILITY OF DELTA PLUTONIUM ALLOYS 67-09 M15-76315
PLUTONIUM BASE ALLOYS, MECHANICAL PROPERTIES
FATIGUE BEHAVIOUR OF PLUTONIUM-1.0 WT PER CENT GALLIUM DELTA-STABILIZED PLUTONIUM 67-09 M17-76330
SOME OBSERVATIONS ON THE COMPRESSIVE CREEP BEHAVIOUR OF A DELTA-STABILIZED PLUTONIUM-1 WT PER CENT GALLIUM ALLOY 67-09 M17-76331
PLUTONIUM BASE ALLOYS, NUCLEAR FUELS
IRRADIATION BEHAVIOR OF PLUTONIUM ALLOY FUELS FOR FAST REACTORS 67-09 M16-76353
PLUTONIUM BASE ALLOYS, NUCLEAR PROPERTIES
A STUDY OF PLUTONIUM-BASED ALLOYS CARRIED OUT AT FONTENAY-AUX-ROSES 67-09 M01-76328
METALLIC PLUTONIUM ALLOYS FOR FAST CRITICAL EXPERIMENTS 67-09 M16-76329
PLUTONIUM BASE ALLOYS, OXIDATION
THE KINETICS OF OXIDATION OF PLUTONIUM METAL AND A PLUTONIUM-3.4 AT. PER CENT ALUMINUM ALLOY AT TEMPERATURES FROM 140 TO 550 C 67-03 M18-65420
PLUTONIUM BASE ALLOYS, PHASE TRANSFORMATIONS
THE EFFECTS OF HIGH PRESSURE ON THE PHASE EQUILIBRIA OF SOME PLUTONIUM ALLOYS 67-04 M14-67466
TRANSFORMATION KINETICS OF THE ALPHA TO BETA AND DELTA TO ALPHA TRANSITIONS IN PURE AND ALLOYED PLUTONIUM 67-09 M14-76306
PLUTONIUM BASE ALLOYS, PHASES /STATE OF MATTER/
THE THETA PHASE IN THE PLUTONIUM-ZIRCONIUM SYSTEM 67-05 M14-68223
THE INFLUENCE OF PRESSURE ON THE STABILIZATION OF THE DELTA PHASE OF PLUTONIUM BY GALLIUM 67-09 M14-76309
PLUTONIUM BASE ALLOYS, PHYSICAL PROPERTIES
COMPOSITIONAL AND PRESSURE EFFECTS IN THE PLUTONIUM-GALLIUM SYSTEM 67-09 M15-76308
SOME PHYSICAL PROPERTIES OF PLUTONIUM AT LOW TEMPERATURES 67-09 M15-76312
VISCOSITY DENSITY-COMPOSITION RELATIONSHIPS FOR LIQUID PLUTONIUM-CERIUM ALLOYS 67-09 M15-76325
PLUTONIUM BASE ALLOYS, SURFACE PROPERTIES
SURFACE TENSIONS OF CO-CE AND PU-CO-CE ALLOYS AS DETERMINED FROM FROZEN MENISCI 67-06 M15-70660
PLUTONIUM COMPOUNDS, ATOMIC PROPERTIES
ELECTRONIC BAND STRUCTURES OF PLUTONIUM AND ITS MONOCARBIDE 67-09 M16-76317
PLUTONIUM COMPOUNDS, BINARY SYSTEMS

MONOXIDE-TYPE COMPOUNDS OF URANIUM AND PLUTONIUM. PT. 1. OXYCARBIDES 67-09 M14-76755

PLUTONIUM COMPOUNDS, CORROSION
INVESTIGATION OF URANIUM-PLUTONIUM-TITANIUM-CARBON COMPOUNDS 67-11 M20-80150

PLUTONIUM COMPOUNDS, CRYSTAL LATTICES
CRYSTAL STRUCTURES AND DENSITIES. PT. 3 67-01 M13-58506
THE CRYSTAL STRUCTURE OF PU2ZN9 67-10 M13-78561

PLUTONIUM COMPOUNDS, ELECTRICAL PROPERTIES
SELF-IRRADIATION DAMAGE IN TRANSURANIC ELEMENTS AND COMPOUNDS 67-09 M15-76314

PLUTONIUM COMPOUNDS, IRRADIATION
THE IRRADIATION BEHAVIOUR OF PLUTONIUM-URANIUM MONOCARBIDE 67-09 M16-76354
IRRADIATION BEHAVIOUR OF SOLID SOLUTION URANIUM-PLUTONIUM MONOCARBIDES AT HIGH BURNUPS 67-09 M16-76355
IRRADIATION PROPERTIES OF HIGH ENERGY RATE PNEUMATICALLY-IMPACTED UO2-PUO FUELS 67-09 M16-76356
IRRADIATION TESTING OF UO2-PUO2 FUELS 67-09 M16-76357
FISSION GAS RELEASE FROM MIXED OXIDE FUELS 67-09 M16-76358

PLUTONIUM COMPOUNDS, MAGNETIC PROPERTIES
THE MAGNETIC SUSCEPTIBILITY OF THE MONOCARBIDES OF URANIUM AND PLUTONIUM 67-09 M15-76318

PLUTONIUM COMPOUNDS, MECHANICAL PROPERTIES
MECHANICAL PROPERTIES AND COMPATIBILITY OF URANIUM-PLUTONIUM CARBIDES 67-09 M17-76341

PLUTONIUM COMPOUNDS, NUCLEAR FUELS
PREPARATION OF UO2-PUO2-ZRO2 FUELS 67-09 M09-76339
PRODUCTION AND PROPERTIES OF REACTOR FUELS 67-12 M20-83349

PLUTONIUM COMPOUNDS, NUCLEAR PROPERTIES
PROPERTIES OF PLUTONIUM MONONITRIDE AND ITS ALLOYS 67-09 M01-76342

PLUTONIUM COMPOUNDS, PHASES /STATE OF MATTER/
DEFECT EQUILIBRIA OF PUO2-X, 1045 TO 1505 C 67-09 M14-76348

PLUTONIUM COMPOUNDS, PHYSICAL PROPERTIES
PREPARATION AND PROPERTIES OF SOME GROUPS V AND VI COMPOUNDS OF PLUTONIUM 67-09 M15-76343
PREPARATION AND STUDIES OF SOME PROPERTIES OF PLUTONIUM MONOCARBIDES 67-09 M15-76344

PLUTONIUM COMPOUNDS, POWDER METALLURGY
INFLUENCE OF POWDER HEAT TREATMENT ON THE SINTERING OF --UPU--O2 67-09 M09-76337
REFRACTORY PLUTONIUM FUEL MATERIALS 67-09 M09-76338

PLUTONIUM COMPOUNDS, REACTIONS /CHEMICAL/
SOME EXPERIMENTS ON THE PREPARATION AND FABRICATION OF UC AND --UPU--C--THE PREPARATION OF CARBIDES BY CARBOTHERMIC REDUCTION OF OXIDES IN FLOWING ARGON--THE FABRICATION OF CARBIDES BY SKULL ARCMELTING 67-09 M03-76340
SOME STUDIES OF THE HIGH TEMPERATURE BEHAVIOR OF PUO2 AND PUO2-UO2 MIXTURES 67-09 M14-76347
THE COMPATIBILITY OF MIXED OXIDES AND CARBIDES WITH REFRACTORY METALS 67-09 M14-76350
THE COMPATIBILITY OF TYPE 316L STAINLESS STEEL WITH MIXED URANIUM-PLUTONIUM CARBIDES 67-09 M14-76351

PLUTONIUM COMPOUNDS, THERMAL PROPERTIES
PLUTONIUM 67-11 M15-80461

PLUTONIUM COMPOUNDS, THERMODYNAMICS
THERMOCHEMICAL PROPERTIES. PT. 1 67-01 M15-58504

PN JUNCTIONS
INVESTIGATION OF THE DIFFUSION OF BORON IN SILICON FROM A LAYER DOPED BY ION BOMBARDMENT 67-05 M16-69391
INFLUENCE OF HYDROSTATIC COMPRESSION AND OF THE TEMPERATURE ON THE CHARACTERISTICS OF P-N TUNNEL JUNCTIONS IN GAAS 67-09 M15-76776
PRODUCTION, STRUCTURE AND CERTAIN PHOTOELECTRIC PROPERTIES OF SINGLE- AND MULTI-LAYER SINGLE-CRYSTAL AIIBVI AND AIVBVI CHALCOGENIDE FILMS 67-09 M16-76761
CONDUCTIVITY MEASUREMENTS ON PBSE SINGLE CRYSTALS WITH NATURAL P-N JUNCTION 67-10 M15-78446
PREPARATION OF RESTRICTED-AREA GAAS TUNNEL DIODES 67-11 M14-80835
SEMICONDUCTING A2B4C25 COMPOUNDS 67-11 M15-80601
OPTICAL AND ELECTRICAL CHARACTERISTICS OF P-N JUNCTIONS IN ZINC SULFIDE 67-11 M15-80628
THE ROLE OF ACCEPTORS IN THE LUMINESCENCE OF N-TYPE GAAS 67-11 M15-81677
IMPROVEMENT OF MINORITY CARRIER LIFETIME IN SILICON DIODES 67-11 M16-80839
NEUTRON-INDUCED TYPE CHANGES IN P-TYPE SILICON 67-11 M16-81691
NONOHMIC PROPERTIES IN N-TYPE INSB 67-12 M15-81767
SEEBECK COEFFICIENT OF THIN-FILM GERMANIUM 67-12 M15-82361

PN JUNCTIONS, CRYSTAL GROWTH
ORIENTED GROWTH OF SEMICONDUCTORS. PT. 3. GROWTH OF GALLIUM ARSENIDE ON GERMANIUM 67-03 M14-65873
ORIENTED GROWTH OF SEMICONDUCTORS. PT. 4. VACUUM DEPOSITION OF EPITAXIAL INDIUM ANTIMONIDE 67-03 M14-65874
A P-N JUNCTION IN SILICON WHISKERS GROWN BY VLS METHODS 67-05 M14-68718
VAPOR-PHASE GROWTH OF GAAS1-XPX ROOM-TEMPERATURE INJECTION LASERS 67-06 M16-71146
GALLIUM ARSENIDE EPITAXIAL TECHNOLOGY 67-07 M14-72915

PN JUNCTIONS, DIFFUSION
COPPER DIFFUSED GALLIUM ARSENIDE P-N JUNCTIONS 67-04 M16-66119
AN ELECTROPHOTOGRAPHIC METHOD FOR DETERMINING THE DIFFUSION COEFFICIENT OF LITHIUM IN P-TYPE SILICON 67-05 M16-69379

PN JUNCTIONS, DIFFUSION EFFECTS
ELECTROLUMINESCENCE OF IRON-SULFUR DIFFUSED GAAS JUNCTIONS 67-06 M16-71145

PN JUNCTIONS, ELECTRICAL PROPERTIES
VAPOR PHASE GROWTH OF GALLIUM ARSENIDE MICROWAVE DIODES 67-02 M16-61501
NEGATIVE DIFFERENTIAL RESISTANCE AND INDUCTIVE EFFECTS IN SILICON CARBIDE 67-06 M16-71761
NEGATIVE DIFFERENTIAL RESISTANCE AND INDUCTIVE EFFECTS IN SILICON CARBIDE 67-06 M16-71919
UNIAXIAL STRESS EFFECT OF GE PN JUNCTIONS DOPED WITH COPPER 67-07 M16-73321
STRUCTURE AND ELECTRICAL PROPERTIES OF THIN OXIDE FILM DIODE WITH SPUTTERED TITANIUM BASE 67-11 M15-80824

PN JUNCTIONS, RADIATION COUNTERS
POSSIBLE USE OF CADMIUM TELLURIDE FOR N-P GAMMA-RAY DETECTORS 67-05 M16-68400

PN JUNCTIONS, SEMICONDUCTORS
THE BEHAVIOR, IN TIME, OF CONTINUOUSLY OPERATED GAAS LASER DIODES 67-03 M16-65437

PN JUNCTIONS, STRESS EFFECTS
EFFECT OF STRESS ON GERMANIUM AND SILICON P-N JUNCTIONS 67-08 M16-74605

PN JUNCTIONS, SURFACE PROPERTIES
SURFACE EFFECTS OF RADIATION ON SEMICONDUCTOR DEVICES 67-04 M16-66140

PNEUMATIC DEVICES
SEE ALSO PNEUMATIC TOOLS
FORGED HIGH PRESSURE HYDRAULIC HOSE FITTINGS 67-05 M20-69553
THE WIDENING FIELD OF APPLICATION FOR PNEUMATIC BLASTING 67-06 M12-71800
HOW TO GET MORE PAD PRESSURE IN DRAW DIES 67-08 M20-74465

PNEUMATIC TOOLS, CASTING
PROSPECTS FOR USING CAST CYLINDERS IN DRILLING HAMMERS 67-02 M06-59176
PROSPECTS FOR THE USE OF CAST CYLINDERS IN DRILLING HAMMERS 67-10 M06-78885

PNP JUNCTIONS
GALLIUM ARSENIDE PLANAR TECHNOLOGY 67-04 M16-67101

PNP JUNCTIONS, ELECTRICAL PROPERTIES
TEMPERATURE AND MAGNETIC FIELD DEPENDENCES OF THE JOSEPHSON CURRENT IN THE JUNCTION WITH A VERY THIN FILM OF TIN 67-03 M16-65643
NEGATIVE RESISTANCE IN CADMIUM SULPHIDE FILMS 67-06 M15-71044

POINT DEFECTS
SEE ALSO CROWDIONS
FRENKEL DEFECTS
INTERSTITIAL DEFECTS
LATTICE VACANCIES
STUDY BY THE MAGNETIC LAG METHOD OF THE DEFECTS CREATED BY IRRADIATION IN IRON. PT. 2 67-01 M13-58021
ENERGY DEPENDENCE OF ANISOTROPY OF DEFECT

POINT DEFECTS
PRODUCTION IN ELECTRON IRRADIATED DIAMOND-TYPE CRYSTALS. PT. 2. THEORETICAL MODEL 67-01 M16-57945
PRESENT KNOWLEDGE ABOUT POINT DEFECTS IN DEFORMED FACE-CENTERED-CUBIC METALS 67-02 M13-60601
EFFECT OF DEFORMATION-INDUCED CRYSTAL IMPERFECTIONS ON MAGNETOCRYSTALLINE ANISOTROPY OF NICKEL SINGLE CRYSTALS 67-02 M13-61831
CHANGES IN INTERNAL ENERGY ASSOCIATED WITH RECOVERY AND RECRYSTALLIZATION 67-02 M14-60602
LOW-TEMPERATURE DIFFUSION IN INERT-GAS BOMBARDED AL2O3 67-03 M14-65851
INFLUENCE OF CHARGED DEFECTS ON MECHANICAL PROPERTIES OF LEAD SULFIDE 67-03 M17-65880
THE EXPERIMENTAL STUDY OF POINT DEFECTS IN PURE METALS 67-04 M13-67310
PHYSICAL ACOUSTICS, PRINCIPLES AND METHODS. V 3, PT. A. THE EFFECT OF IMPERFECTIONS 67-04 M17-66221
ANELASTICITY AND INTERNAL FRICTION DUE TO POINT DEFECTS IN CRYSTALS 67-04 M17-66222
USE OF ANELASTICITY IN INVESTIGATING RADIATION DAMAGE AND THE DIFFUSION OF POINT DEFECTS 67-04 M17-66228
DISLOCATION DIPOLES AND DISLOCATION LOOPS 67-05 M13-69461
RADIATION ANNEALING IN DEUTERON-IRRADIATED GOLD, ALUMINUM, AND PLATINUM 67-05 M16-69803
ELASTIC AND ALLIED MODELS FOR ENERGIES OF POINT DEFECTS 67-06 M13-69940
VERSATILE CRYOSTAT FOR THE STUDY OF POINT DEFECTS IN QUENCHED METALS 67-06 M15-70579
THEORETICAL AND EXPERIMENTAL ASPECTS OF THE EFFECTS OF POINT DEFECTS AND DISORDER ON THE VIBRATIONS OF CRYSTALS. PT. 2 67-07 M13-73113
ANELASTIC BEHAVIOR OF ISOLATED POINT DEFECTS IN CRYSTALS OF H C P STRUCTURE 67-07 M13-73903
POINT DEFECTS IN BINARY COMPOUNDS 67-07 M13-74099
DEFECTS IN THE CRYSTAL LATTICE OF COPPER, ROLLED AT LOW TEMPERATURES 67-08 M15-75283
THE EFFECT OF PRELIMINARY CYCLICAL HEAT TREATMENT ON FATIGUE 67-08 M17-75887
THE STUDY OF POINT DEFECTS IN METALS AT THE MAX-PLANCK-INSTITUT FUR METALLFORSCHUNG AND THE TECHNISCHE HOCHSCHULE STUTTGART 67-09 M13-76637
DEFECT SENSITIVE PROPERTIES OF METALS 67-09 M13-77400
EXPERIMENTAL TECHNIQUES USED TO STUDY LATTICE DEFECTS IN AL-MG ALLOYS 67-09 M13-78291
CHARACTERIZATION OF POINT DEFECTS IN NONSTOICHIOMETRIC COMPOUNDS FROM THERMODYNAMIC CONSIDERATIONS 67-10 M13-79116
CRYSTAL STUDIES OF SEMICONDUCTORS 67-10 M13-79287
LATTICE DYNAMICS OF POINT DEFECTS 67-10 M16-78311
THE STUDY OF CRYSTAL IMPERFECTIONS BY MEANS OF OPTICAL METHODS AND BY MEANS OF ELECTRON MICROSCOPY AND ELECTRON DIFFRACTION 67-11 M13-80140
MAGNETIC AFTER-EFFECT IN DEFORMED COBALT SINGLE CRYSTALS 67-12 M15-82010
THE EFFECTS OF DEFORMATION ON THE ELECTRICAL RESISTIVITY OF MOLYBDENUM SINGLE CRYSTALS 67-12 M15-82858
RECOVERY OF ELECTRICAL RESISTIVITY IN PURE IRON DEFORMED AT 77 K 67-12 M15-83152
POINT DEFECTS, RADIATION EFFECTS
STUDY OF POINT DEFECTS CREATED BY NEUTRON IRRADIATION OF IRON CONTAINING CERTAIN IMPURITIES 67-02 M13-61518
THE FERROMAGNETIC AFTER-EFFECT IN IRRADIATED NICKEL, AND ITS APPLICATION TO THE STUDY OF POINT DEFECTS IN FCC METALS 67-04 M13-67318
MECHANISMS OF RADIATION-INDUCED MECHANICAL PROPERTY CHANGES 67-07 M17-73375
PHYSICAL CHARACTERIZATION OF MO SINGLE CRYSTALS FOR IRRADIATION EXPERIMENTS 67-08 M14-75994
RECOVERY OF THE ELECTRICAL RESISTIVITY OF PURE METALS AFTER SHORT IRRADIATION WITH NEUTRONS INSIDE A REACTOR 67-08 M15-75644
DEFECTS IN THE COMPOUND BI2TE3 CAUSED BY IRRADIATION WITH PROTONS 67-10 M16-79152
POINT DEFECTS, STRESS EFFECTS
LATTICE DEFECTS IN SHOCK-DEFORMED AND COLD WORKED NICKEL 67-08 M14-75118
POINT DEFECTS, TEMPERATURE EFFECTS
WORK HARDENING OF SAP AL ALLOYS, PLASTICALLY DEFORMED AT ROOM TEMPERATURE 67-12 M17-82814
POISONS
NUCLEAR POISONS 67-06 M01-70091
DISPERSION AND NONMETALLIC POISON MATERIALS 67-11 M16-80470
POISSONS COEFFICIENT
SEE POISSONS RATIO
POISSONS CONSTANT
SEE POISSONS RATIO
POISSONS RATIO
ENERGY AND ATOMIC CONFIGURATIONS OF COMPLETE AND DISSOCIATED DISLOCATIONS. PT. 2. SCREW DISLOCATION IN AN FCC METAL 67-01 M13-58752
LOW-TEMPERATURE ELASTIC PROPERTIES OF ZRC AND TIC 67-01 M17-57116
LIMITING ELASTIC STRESSES IN COPPER 67-02 M17-61818
EFFECT OF VARIATION IN POISSONS RATIO ON PLASTIC TENSILE INSTABILITY 67-06 M17-71631
ELASTIC PROPERTIES OF BINARY NIOBIUM ALLOYS CONTAINING TUNGSTEN, MOLYBDENUM, IRON AND NICKEL 67-11 M17-81170
ELASTIC MODULI AND DEBYE TEMPERATURES OF THE POLYCRYSTALLINE RARE-EARTH METALS AT 4.2 AND 300 K 67-12 M17-82101
POISSONS RATIO, TEMPERATURE EFFECTS
THE TEMPERATURE DEPENDENCE OF THE ELASTIC CONSTANTS OF TI AND TI ALLOYS 67-08 M17-75066
POLARIMETERS
POLARADIOMETER--A NEW INSTRUMENT FOR TEMPERATURE MEASUREMENT 67-08 M19-76154
ELLIPSOMETRIC-POTENTIOSTATIC STUDY OF IRON PASSIVITY 67-09 M18-78276
POLARISCOPES
SEE POLARIMETERS
POLARITY
THE STRUCTURE AND POLARITY OF DOMAIN BOUNDARIES IN FERROMAGNETIC LAYERS 67-01 M15-57572
ON THE MORPHOLOGY AND POLARITY OF THE ZNO CRYSTAL 67-07 M14-73323
THE POLARITY EFFECT IN SPARK EROSION 67-11 M08-80798
CARBON DIOXIDE WELDING WITH DOPED ELECTRODE ON STRAIGHT POLARITY 67-11 M11-80554
POLARIZATI
SEARCH FOR CONDUCTION ELECTRON POLARIZATION IN AN IRON-BASED INTERSTITIAL COMPOUND 67-04 M17-66177
POLARIZATION
INFLUENCE OF SULFATE IONS ON ANODIC BEHAVIOR OF NICKEL 67-01 M18-58703
HYDROGENATION OF STEEL DURING CATHODE POLARIZATION IN ALKALI SOLUTIONS 67-01 M18-58713
GALVANIC EFFECTS IN VACUUM DEPOSITED THIN FILMS 67-02 M18-59454
ANODIC BEHAVIOR OF COPPER IN NACL AQUEOUS SOLUTIONS 67-02 M18-59739
ON THE FORMATION OF ANODIC FILMS ON CU IN 3 PER CENT NACL AQUEOUS SOLUTIONS 67-02 M18-59740
ELECTROCHEMICAL BEHAVIOR OF CU-ZN ALLOYS IN NACL SOLUTIONS 67-02 M18-59986
PHOTOELECTRIC STATES IN SILICON CONTAINING RADIATION DEFECTS 67-06 M16-71759
OIL WELL CORROSION TREATMENT--POLARIZATION DATA FOR FIELD TESTING INHIBITORS 67-06 M18-72338
DETERMINING THE STRESS CONDITION IN MATERIALS BY MEANS OF ULTRASONICS 67-07 M17-73101
STUDYING THE ELECTROCHEMICAL BEHAVIOR OF WELDED JOINTS USING THE POTENTIOSTATIC METHOD 67-08 M18-75405
ON THE RELATION BETWEEN CORROSION RATE AND POLARIZATION RESISTANCE 67-11 M18-80712
POLARIZATION /ELECTRODES/
ELECTROLYTIC POLARIZATION ON ELECTRODEPOSITION OF TUNGSTEN ALLOYS. PT. 4. STUDIES OF ELECTRODEPOSITION OF TUNGSTEN ALLOYS 67-01 M12-58618
ELECTROCHEMICAL STUDIES ON COPPER ALLOYS IN STAGNANT AND MOVING 3 PER CENT NACL AQUEOUS SOLUTIONS CONTAINING HYDROGEN SULFIDE 67-01 M18-58334
ELECTRODEPOSITION OF COPPER ON COPPER SINGLE CRYSTALS --100--, --110-- AND --111-- FROM ACID COPPER SULFATE BATH 67-02 M14-60280
CATHODIC POLARIZATION AND KINETICS OF ADSORPTION OF OXYGEN ON METALS 67-02 M18-58930
TEMPERATURE DEPENDENCY OF THE DISSOLUTION KINETICS

AND PASSIVATION OF METALS AND ALLOYS. PT. 2. TEMPERATURE DEPENDENCY OF THE DISSOLUTION MECHANISM 67-02 M18-60113
CORROSION OF COPPER-ZINC ALLOYS UNDER THE EFFECT OF ALTERNATING CURRENT 67-02 M18-61562
ANODIC DISSOLUTION OF ZN-CU AND ZN-FE ALLOYS IN KCL AND NACL MELTS 67-03 M03-65579
ANALYSIS OF ELECTRODE REACTIONS IN THE ELECTRODEPOSITION OF NICKEL BY THE INTERRUPTER METHOD. PT. 1. EFFECTS OF ADDITION AGENTS IN THE ELECTRODEPOSITION OF NICKEL 67-03 M12-65709
THE EFFECTS OF SODIUM NAPHTHALENE SULFONATES ON THE ELECTRODEPOSITION OF NICKEL FROM NICKEL SULFATE BATH. PT. 2. EFFECTS OF ADDITION AGENTS IN THE ELECTRODEPOSITION OF NICKEL 67-03 M12-65710
EFFECTS OF ADDITION AGENTS IN THE ELECTRODEPOSITION OF NICKEL FROM NICKEL CHLORIDE BATH. PT. 3. EFFECTS OF ADDITION AGENTS IN THE ELECTRODEPOSITION OF NICKEL 67-03 M12-65711
EFFECTS OF MO, CU, SI AND P ON ANODIC BEHAVIOR OF 17 CR STEELS 67-03 M18-65404
ELLIPSOMETRIC-POTENTIOSTATIC STUDIES OF IRON PASSIVITY. PT. 1. ANODIC FILM GROWTH IN SLIGHTLY BASIC SOLUTIONS 67-03 M18-65423
INHIBITION OF THE CORROSION OF ALUMINIUM-MANGANESE ALLOY.. STUDIES WITH THIOUREA AND DIPHENYL THIOUREA 67-03 M18-65681
ANODIC POLARIZATION BEHAVIOR OF LOW ALLOY STEELS IN SULFURIC ACID SOLUTIONS 67-03 M18-65757
CATHODIC POLARIZATION OF METALS AND ALLOYS AND ITS APPLICATION TO THE NUCLEAR INDUSTRY 67-03 M18-65852
CORROSION OF CAST IRON IN CONCENTRATED SULFURIC ACID UNDER POTENTIOSTATIC CONDITIONS 67-03 M18-65996
THERMODYNAMIC AND KINETIC CONSIDERATIONS CONCERNING THE IRON CORROSION ELECTRODE 67-04 M12-67754
THE ANODIC POLARIZATION CURVES OF IRON-NICKEL-CHROMIUM ALLOYS 67-04 M18-66695
GALVANIC PITTING IN METALLIC COATINGS 67-04 M18-66715
CORROSION OF ELECTRODEPOSITED CHROMIUM 67-04 M18-66716
ANODIC BEHAVIOR OF CR-NI STEELS STABILIZED WITH TITANIUM 67-04 M18-67278
STUDY OF THE POLARIZATION ELECTROMOTIVE FORCES DURING ELECTROLYTIC DEPOSITION OF MG FROM AL-MG ALLOYS 67-05 M03-68962
STUDY OF THE ELECTROCHEMICAL PROPERTIES OF TL 67-05 M03-68968
PLATINUM METAL ALLOYS IN ELECTROCATALYSIS. A FURTHER EVALUATION OF RELATIVE ACTIVITIES 67-05 M15-69288
EFFECT OF THE HYDRIDE LAYER ON THE ANODIC POLARIZATION BEHAVIOR OF TITANIUM IN SULFURIC ACID 67-05 M18-68767
PREVENTION OF CORROSION IN PAPERMAKING MACHINES. CATHODIC POLARIZATION WITH PLATINUM-TITANIUM ANODES 67-05 M18-69418
THE ANODIC POLARIZATION BEHAVIOR OF METALS IN HYDROGEN FLUORIDE 67-05 M18-69705
DISSOLUTION KINETICS OF NUCLEAR FUELS. PT. 1. URANIUM 67-06 M14-70480
THORIUM 67-06 M14-70481
ANODIC BEHAVIOR OF GAAS SINGLE CRYSTALS AT INCREASED CURRENT DENSITIES IN ALKALINE AND ACIDIC SOLUTIONS 67-06 M15-71148
USE OF PONTENTIOSTATIC METHODS FOR THE STUDY OF THE BEHAVIOR OF ALUMINIUM AND ITS ALLOYS IN VARIOUS MEDIA 67-06 M18-70577
ANODIC POLARIZATION BEHAVIOR OF PURE ALUMINUM AND SAP --SINTERED ALUMINUM POWDER-- IN HALIDE SOLUTIONS 67-06 M18-70790
INVESTIGATION OF THE POTENTIALS OF GA ELECTRODES AND THE POLARIZATION IN THE ELECTROLYTIC DEPOSITION OF GA AS A FUNCTION OF ITS AGGREGATE STATE 67-07 M12-73178
THE ANODIC DISSOLUTION OF CADMIUM 67-07 M14-73448
ELECTROCHEMICAL STUDIES IN MOLTEN LI2CO3-NA2CO3 67-07 M14-73454
GALLIUM ARSENIDE ELECTRODE BEHAVIOR 67-07 M14-73455
THE ESTIMATION OF CORROSION VELOCITY BY MEASURING POLARIZATION RESISTANCE 67-07 M18-72765
INFLUENCE OF CHLORIDE IONS ON THE RATE OF THE ELECTRODE PROCESSES UNDER CONDITIONS OF ADSORPTION OF ADDITIVES ON THE ELECTRODES 67-08 M03-74477
SOME PROBLEMS OF ANODIC DEPOLARIZATION 67-08 M03-75443
EFFECTS OF ADDITIVES ON THE CATHODE POLARIZATION IN COPPER CYANIDE BATHS. PT. 2. BRIGHT AND LEVELED COPPER DEPOSITS FROM CYANIDE BATH 67-08 M12-74926
STUDY BY ELECTROCHEMICAL POLARIZATION OF ALUMINUM IN DEAERATED SODIUM CHLORIDE SOLUTIONS 67-08 M14-74791
ELECTROLYTIC A-C CORROSION OF IRON 67-08 M18-74624
FUNDAMENTALS OF CONTACT CORROSION WITH PARTICULAR EMPHASIS ON ITS EFFECT ON METALLIC PROTECTIVE COATINGS 67-08 M18-75680
STUDY OF ELECTRODE PROCESSES IN CHLORIDE-FLUORIDE ELECTROLYTE CONTAINING LITHIUM FLUORIDE IN ELECTROLYTIC REFINEMENT OF ALUMINUM 67-09 M03-77114
POLARIZATION OF LIQUID ZINC CATHODE DURING ELECTROLYSIS OF ZIRCONIUM-BEARING POTASSIUM AND SODIUM CHLORIDE MELTS 67-09 M03-77122
POTENTIAL OF ALUMINUM IN AQUEOUS CHLORIDE SOLUTIONS 67-09 M15-77891
A RELATIONSHIP BETWEEN STEADY-STATE CORROSION POTENTIAL AND THE ANODIC DISSOLUTION KINETICS OF THE 300 SERIES AUSTENITIC STAINLESS STEELS 67-09 M18-76644
EFFECTS OF SULFATE IONS ON THE KINETICS OF THE ANODIC DISSOLUTION OF ACTIVE IRON IN ACID SOLUTIONS 67-09 M18-76647
ON THE INFLUENCE OF CERTAIN ORGANIC SUBSTANCES UPON THE ANODIC DISSOLUTION OF METALS IN NEUTRAL SOLUTIONS. PT. 4. ANODIC DISSOLUTION OF COPPER 67-09 M18-77096
ZINC ANODES FOR CORROSION PROTECTION OF DOMESTIC HOT WATER STORAGE TANKS 67-09 M18-77667
ANODIC BEHAVIOR OF COPPER ELECTRODE IN NACL AQUEOUS SOLUTION 67-09 M18-77876
EFFECT OF ORGANIC ACIDS ON THE ANODIC DISSOLUTION OF NICKEL ALLOYS 67-09 M18-78028
ANODIC BEHAVIOR OF IRON-ALUMINUM ALLOYS IN SULFURIC ACID SOLUTION 67-09 M18-78236
ANODIC BEHAVIOR OF IRON-COBALT ALLOYS AND COBALT METAL IN SULFURIC ACID SOLUTIONS 67-09 M18-78237
THE CORRODING IRON SURFACE. PT. 1. DISSOLUTION OF IRON IN THE HALOGEN ACIDS 67-10 M18-78663
THE CORRODING IRON SURFACE. PT. 2. HYDROGEN COVERAGE DURING CORROSION 67-10 M18-78664
DATA ON THE POLARIZATION OF ELECTRODES IN SOLUTIONS, RELATED TO THE EXTRACTION OF MANGANESE BY ELECTROLYSIS 67-11 M03-80426
ANODIC POLATIZATION OF FERROMANGANESE AND CERTAIN OF ITS COMPONENTS IN ALKALINE SOLUTIONS OF POTASSIUM MANGANATE 67-11 M03-80454
ELECTROMOTIVE FORCE OF POLARIZATION AND ACTIVITY OF ALUMINUM IN THE ELECTROLYSIS OF CRYOLITE-ALUMINA MELTS 67-11 M03-81155
REDUCTION OF SILICON FROM OXIDE MELTS BY THE CARBON PRESENT IN PIG IRON 67-11 M04-81642
ELECTRODEPOSITION OF MANGANESE ALLOYS CONTAINING NICKEL FROM SULFATE ELECTROLYTES 67-11 M12-80456
ANODIC PROCESS IN ACID TIN PLATING ELECTROLYTES 67-11 M12-81297
ON ANODIC POLARIZATION OF ALUMINUM AND ITS ALLOYS OF THE SYSTEM FE-SI-AL IN CHLORIDE-FLUORIDE MELTS 67-11 M15-81450
ANODIC POLARIZATION OF AL-SI-FE ALLOYS IN CHLORIDE MELTS 67-11 M15-81451
STUDY OF THE ELECTROCHEMICAL PROPERTIES OF MANGANESE DURING OPERATION OF CHEMICAL CURRENT SOURCES 67-11 M18-80428
STABILITY OF LEAD BASE ALLOYS IN SULFURIC ACID SOLUTIONS IN CONDITIONS OF ANODIC POLARIZATION 67-11 M18-81296
ANODIC DISSOLUTION OF COPPER-ZINC ALLOYS IN ALKALINE SOLUTIONS 67-11 M18-81548
FRACTURE OF COPPER ALLOYS TESTED IN MERCURY SALT SOLUTIONS 67-12 M17-82438
THE ELECTROCHEMICAL BEHAVIOUR OF WELDED JOINTS 67-12 M18-82026
STRESS-CORROSION CRACKING OF QUENCH-HARDENED STEEL WITH WHITE ETCH-RESISTANT SURFACE FILMS 67-12 M18-82184
STRESS CORROSION CRACKING OF CARBON STEEL 67-12 M18-82186
POTENTIODYNAMIC STUDY OF IRON AND PLATINUM IN MOLTEN ALKALI METAL NITRATES 67-12 M18-83150

POLARIZATION /ELECTRODES/

POLARIZATION /ELECTRODES/, ALLOYING EFFECTS
FUNDAMENTAL STUDIES ON CORROSION BEHAVIORS OF IRON-SILICON ALLOYS. PT. 1. ANODIC BEHAVIORS OF IRON-SILICON ALLOY 67-10 M18-79606
POLARIZATION /ELECTRODES/, IMPURITY EFFECTS
CURRENT-POTENTIAL EFFECTS OF ADDITIVES IN MANGANESE ELECTROWINNING. PT. 2 67-12 M03-82585
POLARIZED LIGHT
OPTICAL REFLECTIONS AS AN AID IN THE DETERMINATION OF ORIENTATION IN METALLIC CRYSTALS 67-02 M14-60025
POLARIZATION DEPENDENCE OF THE URBACH RULE IN TRIGONAL SELENIUM 67-10 M16-79359
POLARIZING
SEE POLARIZATION
POLAROGRAPHIC ANALYSIS
RESISTANCE TO PITTING OF TYPES 202 AND 321 STEELS TO SULFURIC ACID AND SODIUM CHLORIDE SOLUTIONS 67-01 M18-58482
POLAROGRAPHIC METHODS OF SIMULTANEOUS DETERMINATION OF TIN, NICKEL, LEAD AND ZINC IN BRONZE 67-01 M19-57495
THE POLAROGRAPHIC DETERMINATION OF ALUMINUM IN ZINC-BASE ALLOYS AND IN THE ZINC LAYER OF GALVANIZED SHEETS 67-01 M19-57912
POLAROGRAPHIC DETERMINATION OF BISMUTH AND COPPER IN REFINED LEAD 67-01 M19-58732
ANALYSIS OF GOLD ALLOY PLATING SOLUTIONS 67-05 M12-68807
PRESENT STATE OF THE CHEMICAL ANALYSIS OF NUCLEAR FUELS AND REACTOR MATERIALS IN JAPAN 67-08 M19-74681
SIMULTANEOUS DETERMINATION OF PB AND ZN IN IRON, STEEL AND IRON ORES BY THE D-C POLAROGRAPHIC METHOD 67-09 M19-77247
THE DETERMINATION OF SMALL QUANTITIES OF PB AND BI IN ALNICO AND SIMILAR ALLOYS 67-09 M19-77588
TRACE CHARACTERIZATION BY ELECTROCHEMICAL METHODS 67-11 M19-80133
POLAROGRAPHIC ANALYSIS OF GERMANIUM IN ZINC CONCENTRATES AND ORES 67-12 M19-83208
POLARGRAPHIC ANALYSIS OF CADMIUM AND ZINC IN AN ALLOY OF THESE TWO METALS 67-12 M19-83492
POLAROGRAPHS
SEE POLARIMETERS
POLAROGRAPHY
SEE POLARIMETERS
POLE FIGURES
QUALITATIVE STUDY OF THE ORIENTATION OF ROLLED IRON 67-03 M13-65781
DIRECT REGISTRATION OF POLE-DIAGRAMS FOR THE DETERMINATION OF TEXTURES BY X-RAYS 67-04 M13-66283
ROLLING TEXTURE OF --112-- --110-- COPPER SINGLE CRYSTAL 67-05 M14-69884
EFFECT OF DEGREE OF DEFORMATION ON TEXTURES OF DEFORMATION AND RECRYSTALLIZATION IN SILICON IRON 67-05 M17-68558
ROLLING TEXTURE OF SINTERED COPPER 67-06 M09-72321
FORGING AND DRAWING TEXTURES OF MOLYBDENUM WIRE OBTAINED FROM SINGLE CRYSTALS OF VARIOUS ORIENTATIONS 67-06 M13-69983
RELATIONSHIP BETWEEN THE ROLLING TEXTURE OF TECHNICALLY PURE IRON AND THE SHAPE OF DEFORMED GRAINS 67-06 M13-71374
YIELDING AND PLASTIC DEFORMATION IN TEXTURED SHEET OF TITANIUM AND ITS ALLOYS 67-06 M13-71609
THE FORMATION OF THE ROLLING TEXTURE OF BODY-CENTERED CUBIC METALS AND ALLOYS 67-06 M13-71657
STUDY OF THE FINE STRUCTURE OF VT15 ALLOY AFTER HIGH-TEMPERATURE STRAIN HARDENING 67-06 M13-72121
LATTICE DEFECT RESEARCH BY KOSSEL TECHNIQUE AND DEFORMATION ANALYSIS 67-06 M14-71421
SECONDARY RECRYSTALLIZATION IN ALPHA ZIRCONIUM 67-06 M14-71624
STRUCTURE OF THE ROLLING TEXTURE OF BCC METALS AND ALLOYS. PT. 2. ORIENTATION DISTRIBUTION OF CRYSTALLITES IN ROLLED NIOBIUM DETERMINED BY MEANS OF SELECTED AREA ELECTRON DIFFRACTION --SAED-- 67-06 M14-71723
DEFORMATION TEXTURES IN INGOT BERYLLIUM 67-07 M13-73753
ORIENTATION DISTRIBUTION OF CRYSTALLITES IN ROLLED 70-30 BRASS DETERMINED BY MEANS OF SELECTED AREA ELECTRON DIFFRACTION --SAED-- 67-07 M13-73847
EFFECTS OF DEGREE OF DEFORMATION ON DEFORMATION AND RECRYSTALLIZATION TEXTURES IN SILICON IRON 67-07 M17-72469
BERYLLIUM INGOT SHEET AND OTHER WROUGHT FORMS 67-07 M17-73762
ANISOTROPY IN DRAWING STEELS 67-08 M13-74520
A SPECIAL METHOD OF POLE FIGURE ANALYSIS OF CDS FILMS 67-08 M13-74709
FORMATION OF COLD ROLLED TEXTURE AND RECRYSTALLIZED TEXTURE IN SINGLE CRYSTALS OF 3 PER CENT SILICON IRON. PT. 1. 67-08 M13-75154
INFLUENCE OF THE DEGREE OF SWAGING DURING COLD ROLLING ON THE FORMATION OF THE RECRYSTALLIZATION TEXTURE IN THE N29K18 AND N47KH ALLOYS 67-08 M14-74993
TRANSMISSION ELECTRON MICROSCOPY STUDIES ON PRECIPITATION IN AL-AG-CU ALLOYS 67-08 M14-75320
INFLUENCE OF REDUCTION OF CROSS SECTION UNDER TENSILE STRESS ON ANISOTROPY AND TEXTURE OF COLD ROLLED POLYCRYSTALLINE NICKEL 67-08 M17-76224
ROLLING AND ANNEALING TEXTURES IN CU-BE ALLOYS 67-09 M13-78206
ROLLING AND RECRYSTALLIZATION TEXTURES OF SILICON IRON CRYSTALS WITH --110-- --001-- ORIENTATIONS 67-09 M13-78216
COLD ROLLING AND RECRYSTALLIZATION TEXTURES OF 3003 AL-MN ALLOY 67-09 M13-78246
DEVELOPMENT OF DRAWING AND COMPRESSION TEXTURES 67-09 M14-77992
ROLLING AND RECRYSTALLIZATION TEXTURES IN ALUMINUM 67-09 M14-78207
COMPLETE POLE FIGURE DETERMINATION BY COMPOSITE SAMPLING TECHNIQUES 67-11 M13-81349
AUTOMATIC COMPUTER PLOTTING OF POLE FIGURES AND AXIS DENSITY FIGURES 67-11 M13-81350
STUDY OF THE INVERSE ROWLAND MECHANISM FOR THE NUCLEATION OF A CUBE RECRYSTALLIZATION TEXTURE 67-11 M14-80945
FIBER TEXTURE IN DRAWN TUNGSTEN WIRES 67-12 M13-82733
PREFERRED TRANSFORMATION IN STRAIN-HARDENED AUSTENITE 67-12 M14-82964
POLING
SEE DEOXIDIZING
POLISHES
A CHEMICAL POLISH THAT REVEALS COMPOSITIONAL VARIATIONS IN PBSE--1-X--TEX 67-09 M13-76630
POLISHING
SEE ALSO CHEMICAL POLISHING
ELECTROPOLISHING
MECHANICAL POLISHING
METAL POLISHING
DIAMOND LAPPING A CUTTING INSTRUMENT MADE OF HIGH-SPEED STEEL 67-01 M08-57336
DIAMOND LAPPING OF STEEL PIECES 67-01 M08-57337
POLISHING--MANUAL AND MECHANICAL 67-01 M12-57559
AUTOMATIC UNIT FOR THINNING TRANSMISSION ELECTRON MICROSCOPY SPECIMENS OF METALS 67-01 M16-57226
ALUMINUM AND ALUMINUM ALLOYS IN SHEET, PLATE AND TUBE FORM 67-01 M17-58306
THE PREPARATION OF TITANIUM FOR TRANSMISSION ELECTRON MICROSCOPY 67-02 M13-59439
THE GRINDING AND LAPPING OF SINTERED HARD MATERIALS 67-03 M08-65707
THE INFLUENCE OF SURFACE PREPARATION ON THE SURFACE RESISTIVITY OF SILICON 67-03 M15-65692
MANUAL AND AUTOMATIC POLISHING 67-04 M12-67709
COST-SAVING FACTORS IN GRINDING AND POLISHING WITH ABRASIVE BELTS 67-05 M08-68607
IMPROVED METALLOGRAPHIC TECHNIQUE FOR OBSERVING REACTIONS OF THIN METAL FILMS ON SILICON 67-05 M13-69225
RESEARCHES ON BARREL FINISHING 67-06 M08-70606
POLISH ON ZINC IS PRESERVABLE 67-06 M12-70659
THE FUNDAMENTALS OF MECHANICAL GRINDING AND POLISHING 67-06 M12-72157
PRELIMINARY STUDY OF THE CHEMICAL POLISHING OF ALPHA-CORUNDUM SURFACES WITH VANADIUM PENTOXIDE 67-06 M12-72171
NEW POLISHING MATERIALS FOR PROCESSING OF SINGLE CRYSTALS 67-06 M12-72324
METHODS FOR METALLOGRAPHIC PREPARATION OF UO2 AND UO2CEO2 67-06 M13-71408
FASTER FINISHING OF TUNGSTEN CARBIDE DIES

67-07 M12-74168
ACHIEVING FINE SURFACE TEXTURE AND GEOMETRY WITH MACHINE LAPPING 67-07 M12-74223
TOROIDAL PATH MACHINE SPEEDS ABRASIVE FINISHING 67-08 M08-74461
ABRASIVE SURFACE FINISHING 67-08 M12-74524
AUTOMATIC LINES FOR POLISHING AND BUFFING OF AUTOMOTIVE BUMPERS 67-08 M12-74525
VIBRATORY GRINDING AND VIBRATORY POLISHING OF STEEL IN METALLOGRAPHY. PT. 2 67-09 M08-78182
VIBRATORY FIXTURE PROCESSING 67-09 M12-77187
VIBRATING GRINDING AND VIBRATORY POLISHING OF STEEL IN METALLOGRAPHY. PT. 1 67-09 M13-77795
DEVELOPMENTS IN POLISHING AND BUFFING 67-10 M12-79002
THE EFFECT OF OXYGEN ON POLISHING OF STEEL 67-10 M12-79112
ARE NEW FINISH STANDARDS REQUIRED 67-10 M12-79188
IMPROVED PERFORMANCE WITH THE TRIBOLUSTER PROCESS FOR DEBURRING AND SURFACING 67-10 M12-79189
POLISHING POWER OF REFRACTORY COMPOUNDS 67-12 M09-82785
METHOD FOR PRODUCING SEMICONDUCTOR CRYSTAL SURFACES WITH A ROUGHNESS OF LESS THAN 0.05 MICRONS 67-12 M12-82499
FUNDAMENTAL STUDIES ON LAPPING 67-12 M12-83597
NEW TECHNIQUE FOR PREPARING UO2 THIN FOILS FOR ELECTRON MICROSCOPY 67-12 M13-82804

POLISHING /METALLURGY/
SEE METALLOGRAPHY
POLISHING

POLLUTANTS
SEE CONTAMINANTS

POLLUTION
SEE ALSO WATER POLLUTION
A SUPERFICIAL ASPECT PRESENTED BY ZIRCONIUM ANNEALED IN THE BETA PHASE 67-02 M18-62297

POLLUTION ABATEMENT
ROLE OF METHANE AND OTHER FACTORS IN CONTROLLING EMISSIONS FROM STEELMAKING PROCESSES 67-03 M04-65544
ELECTRICAL CLEANING OF THE WASTE GASES FROM ELECTRODE KILNS 67-06 M05-71837
CLOSING THE LOOP ON CHROME RECOVERY 67-07 M12-72515

POLYACRYLATES
SEE ACRYLIC RESINS

POLYAMIDE PLASTICS
SEE POLYAMIDE RESINS

POLYAMIDE RESINS, COATINGS
SUCCESSFUL FRENCH PROCESS FOR FLUIDIZED BED COATING 67-02 M12-60926

POLYAMIDES
SEE POLYAMIDE RESINS

POLYESTER PLASTICS
SEE POLYESTERS

POLYESTERS
SEE ALSO ALKYD RESINS

POLYESTERS, COATINGS
ELECTROCOATING STEEL PIPE WITH DRY RESIN POWDER 67-03 M12-65487

POLYGONIZATION
DEFORMATION AND SURFACE POLYGONIZATION OF IRON CRYSTALS OXIDIZED AT HIGH TEMPERATURES 67-03 M13-65553
POLYGONIZATION OF HOT-STRAINED SILICON IRON 67-03 M13-65785
COPPER PURITY INFLUENCE ON ITS POLYGONIZATION APTITUDE 67-03 M14-65552
EXAMINATION OF POLYGONIZATION SUBSTRUCTURES BY X-RAY MICROSCOPY 67-04 M13-66310
THE EFFECT OF PRECIPITATION OF MNAL6 UPON THE RECRYSTALLIZATION CHARACTERISTICS OF ALUMINUM-MANGANESE ALLOYS 67-04 M14-66947
PROBLEM OF THE X-RAY DIFFRACTION ANALYSIS OF THE POLYGONIZATION OF ALUMINIUM SINGLE CRYSTALS 67-04 M14-67658
STRUCTURAL AND SUBSTRUCTURAL CHANGES IN DEFORMED MO ALLOYS DURING HEATING 67-06 M13-72360
POLYGONIZATION OF DEFORMED AUSTENITE AT LOW-TEMPERATURE THERMOMECHANICAL TREATMENT AND ITS EFFECT ON PROPERTIES OF HIGH-STRENGTH STEELS 67-06 M14-70065
INFLUENCE OF THERMAL HARDENING ON STRUCTURE AND PROPERTIES OF HEAT RESISTANT ALLOYS 67-06 M17-72347
POLYGONIZATION IN SILICON MONOCRYSTAL 67-10 M13-80026
POLYGONIZATION DEFORMATION OF AUSTENITE BY LOW-TEMPERATURE THERMOMECHANICAL TREATMENT AND ITS EFFECT ON THE PROPERTIES OF HIGH-STRENGTH STEEL 67-10 M14-78811
EFFECTS OF POLYGONIZATION ON THE HIGH-TEMPERATURE STRENGTH PROPERTIES OF MOLYBDENUM 67-10 M17-78966
CHANGE IN THE DISLOCATION STRUCTURE OF SILICON IRON DURING CREEP 67-11 M13-80721
ELECTRON MICROSCOPIC STUDY OF POLYGONIZATION AND PRIMARY RECRYSTALLIZATION IN COLD ROLLED TRANSFORMER STEEL 67-11 M14-80727
A TRANSMISSION ELECTRON MICROSCOPIC STUDY OF THE EARLY STAGE OF RECRYSTALLIZATION IN PURE IRON 67-11 M14-81061
EFFECTS OF STRESS ON THE DEFORMATION ASSOCIATED WITH SLIP ALONG THE GRAIN BOUNDARIES DURING CREEP AT 600 C. IN AN IRON ALLOY CONTAINING 3 PER CENT SI 67-12 M13-82485
EXAMINATION OF POLYGONIZATION SUBSTRUCTURES BY X-RAY MICROGRAPHY 67-12 M13-83519
OBSERVATION OF POLYGONIZATION AND TWO MECHANISMS OF RECRYSTALLIZATION DURING ANNEALING OF IRON OF ELECTROLYTIC PURITY PREVIOUSLY WORK HARDENED BY COMPRESSION 67-12 M14-82284
IMPROVING CREEP PROPERTIES OF MOLYBDENUM BY POLYGONIZATION TREATMENT 67-12 M17-81842

POLYGONIZATION, IMPURITY EFFECTS
CONSIDERATIONS CONCERNING THE RECRYSTALLIZATION AND POLYGONIZATION OF HIGH-PURITY AND IMPURE METALS 67-05 M14-69845

POLYGONIZATION, STRESS EFFECTS
A STUDY OF TENSILE-DEFORMED ALUMINUM BY TRANSMISSION ELECTRON MICROSCOPY 67-10 M14-79288

POLYISOCYANATES
SEE POLYURETHANE RESINS

POLYMERS
SEE ALSO ACRYLIC RESINS
ALKYD RESINS
ELASTOMERS
EPOXY RESINS
POLYAMIDE RESINS
POLYESTERS
POLYURETHANE RESINS
POLYVINYL CHLORIDE
RUBBER
SILICONE RESINS
SYNTHETIC RESINS
THERMOPLASTIC RESINS
THERMOSETTING RESINS
VINYL RESINS

POLYMERS, COATING
WHATS NEW IN ELECTROPLATING 67-06 M12-70031
THE METALLIC COATING OF GRAFTED ABS POLYMERS 67-10 M12-79884

POLYMERS, COATINGS
THE ELECTROCHEMICAL DEPOSITION OF POLYMERIZATION PRODUCTS ON METAL 67-03 M12-65193
NEW ON THE FINISHING FRONT--ELECTROSTATIC POWDER SPRAYING 67-04 M12-66157
RADIATION EFFECTS ON PAINTS--EFFECTIVE COATINGS VITAL TO NUCLEAR INDUSTRY 67-05 M16-68794
USING EPOXY MATERIALS FOR PROTECTIVE COATINGS OF PICKLING BATHS 67-06 M12-71265

POLYMERS, IMPREGNATION
METAL-PLASTIC ANTIFRICTION MATERIALS FOR MANUFACTURING OF SALT-TYPE BEARINGS FOR LUBRICANT-FREE FRICTION 67-07 M09-72504

POLYURETHANE RESINS, COATINGS
THE POLYURETHANES 67-10 M12-79930

POLYVINYL CHLORIDE, COMPOSITE MATERIALS
STELVETITE, A NEW COMPOSITE MATERIAL WITH A BRIGHT FUTURE 67-10 M20-79803

PORCELAIN, MECHANICAL PROPERTIES
CREEP AND SAG PROPERTIES OF A PORCELAIN-GOLD ALLOY 67-12 M20-82358

PORCELAIN ENAMEL
SEE VITREOUS ENAMEL

PORES
SEE POROSITY

POROSITY
SEE ALSO MICROPOROSITY
SEALING OF CASTINGS 67-01 M06-58357
DETERMINATION OF AVERAGE PORE SIZE OF SINTERED POROUS METALS 67-01 M09-58193
POROSITY IN ALUMINIUM WELDS.. ITS CAUSES AND ITS

CURES 67-01 M11-58498
RELATIONSHIP BETWEEN HYDROGEN UPTAKE AND THE POROSITY OF IRON 67-01 M15-58338
MODELING OF A POROUS BODY AND DETERMINATION OF RELATIVE CROSS-SECTIONAL WEAKENING BY PORES 67-02 M09-61792
THE PREPARATION OF LOW-POROSITY SPECIMENS OF TITANIUM AND ZIRCONIUM HYDRIDES BY THE METHOD OF REACTIVE SINTERING 67-02 M09-62105
DETERMINATION OF THE POROSITY OF GOLD ELECTRODEPOSITS BY QUANTITATIVE ELECTROGRAPHY 67-02 M12-60682
EFFECT OF SUBSTRATE ROUGHNESS ON THE POROSITY OF GOLD ELECTRODEPOSITS 67-02 M12-60683
PORE FORMATION DURING CREEP 67-02 M14-62087
POROSITY AND COERCIVE FORCE IN EVAPORATED PERMALLOY THIN FILMS 67-02 M15-59063
EVAPORATION AND FORMATION OF PORES IN ALUMINUM ALLOYS AND CU-ZN ALLOYS 67-02 M15-59763
EFFECT OF THE QUENCHING TEMPERATURE ON THE PROCESS OF PORE FORMATION DURING THERMAL CYCLING OF ALUMINUM 67-02 M17-59948
INVESTIGATION OF SILICON CARBIDE BRICK 67-03 M05-65356
SINTERING OF YTTRIUM OXIDE 67-03 M09-65355
GAS ENTRAPMENT DURING THE SINTERING OF MAGNESIA IN ARGON 67-03 M09-65672
MICROSTRUCTURE AND ITS INFLUENCE ON STRENGTH 67-03 M17-65335
THE EFFECT OF POROSITY AND CRYSTAL ORIENTATION ON THE YOUNGS MODULUS OF ARTIFICIAL GRAPHITE 67-03 M17-65853
INFLUENCE OF FLUXES UPON THE MINERAL CONSTITUENTS AND PHYSICAL PROPERTIES OF IRON ORE SINTER 67-04 M02-66297
CONTINUOUS CASTING 67-04 M03-67910
EFFECT OF OVERFLOW WELLS, GATING AND INJECTION PARAMETERS ON THE POROSITY OF A DIE CASTING 67-04 M06-67702
INVESTIGATION OF THE CONDITIONS OF THE FORMATION OF HARD ALLOYS WITH AN UNEVEN DISTRIBUTION OF THE CARBIDE PHASE. PT. 1 67-04 M09-67339
CALCULATING THE DIFFUSIONAL GROWTH RATE OF A PORE UNDER THE EFFECT OF APPLIED STRESS 67-04 M14-67917
SOME PHYSICAL PROPERTIES OF NIOBIUM MONOCARBIDE IN THE HOMOGENEITY REGION 67-04 M15-67860
STRENGTH CHARACTERISTICS OF POROUS MATERIALS OF REFRACTORY COMPOUNDS 67-04 M17-67343
DEVELOPMENTS WITH HIGH-PURITY PERICLASE 67-04 M17-67737
POROUS METALS FILTER LIQUIDS, CUT NOISE, DAMPEN VIBRATION 67-05 M01-68428
QUALITY OF STEEL FROM CONTINUOUSLY CAST BILLETS. PT. 1. THE QUALITY OF HIGH-CARBON STEEL WIRE ROD ROLLED FROM BILLETS CONTINUOUSLY CAST FROM BASIC OXYGEN LD STEEL 67-05 M01-68732
RELATIONS BETWEEN PORE STRUCTURE AND DENSIFICATION MECHANISM IN THE COMPACTING OF IRON POWDERS. PT. 2. THEORETICAL CONSIDERATIONS ABOUT THE CHANGE OF PORE SIZE DISTRIBUTION IN COMPACTING 67-05 M09-68946
DEVELOPMENT OF CAVITIES IN CREEP 67-05 M17-68857
POROUS ALUMINUM INGOTS 67-06 M03-70916
GAS POROSITY IN STEEL CASTINGS 67-06 M06-72188
INTERNAL SOUNDNESS OF CONTINUOUSLY-CAST BILLETS 67-06 M13-72278
INVESTIGATION OF CENTRAL POROSITY IN CONTINUOUS-CAST SQUARE AND SLAB SECTIONS 67-07 M04-73018
THE COMPACTION OF METAL POWDERS BY ROLLING 67-07 M09-73866
SLIP CASTING OF METAL POWDERS 67-07 M09-73871
POROSITY EFFECTS ON THE OXIDATION OF TUNGSTEN 67-07 M14-72653
NEW METHOD FOR TRACING PORES IN IRON-BASE MATERIALS 67-07 M15-73769
MICROCRACKED OR MICROPOROUS CHROMIUM PLATING 67-07 M17-73819
SINTERED TYPE 316L STAINLESS--ITS PROPERTIES AND PROCESSING 67-08 M09-74490
SINTERING OF METAL-GLASS COMPOSITES--DEPENDENCE BETWEEN TOTAL POROSITY AND OPEN POROSITY DURING SINTERING OF METAL-GLASS MATERIALS 67-08 M09-75427
SCIENCE FOR ELECTROPLATERS. PT. 116. POROSITY 67-08 M12-74616
FORMATION MECHANISM AND STRUCTURAL FEATURES OF PYROLYTIC GRAPHITE 67-08 M14-74417
EVAPORATION AND PORE FORMATION IN ALUMINUM AND COPPER-ZINC ALLOYS 67-08 M15-76119
WELDABILITY OF THIN AMG6 ALLOY 67-08 M17-74775
NEW METHOD FOR THE DETECTION OF PORES ON IRON AND STEEL SURFACES 67-08 M19-75504
POROSITY IN ARGON ARC WELDING THIN SHEET WELDED JOINTS IN KH18N10T STEEL 67-09 M11-77610
APPLICATION OF MERCURY POROSIMETRY TO REFRACTORY MATERIALS 67-09 M15-77964
SCIENCE FOR ELECTROPLATERS. PT. 117. POROSITY 67-10 M12-78526
DEVELOPMENTS IN THE USE OF DIRECT-BONDED BRICK 67-11 M04-80109
GAS AND POROSITY IN CASTINGS. PT. 1 67-11 M06-80930
PROGRESSIVE SHAPE CHANGES OF THE VOID DURING SINTERING 67-11 M09-81339
POROSITY IN WELD METAL DURING FUSION WELDING OF NIOBIUM ALLOYS 67-11 M11-80549
USING THE VORTEX EFFECT IN GAS-ELECTRIC WELDING 67-11 M11-80558
POROSITY OF WELDS MADE BY BASIC POWDER WIRE 67-11 M11-80638
THE PRODUCTION OF NONMETALLIC AND METALLIC PROTECTIVE SURFACE LAYERS ON SINTERED IRON 67-11 M18-80341
ON THE SOFTENING PROPERTY OF IRON ORE SINTER WITH VARIOUS BASICITY RATIOS 67-12 M04-81742
PROBLEMS OF POROSITY IN CAST STEEL. PT. 3 67-12 M06-83086
GAS AND POROSITY IN CASTINGS. PT. 2 67-12 M06-83351
PROBLEMS OF POROSITY IN CAST STEEL. PT. 2 67-12 M06-83588
PROBLEMS OF POROSITY IN CAST STEEL 67-12 M06-83589
ADHERENCE AND POROSITY IN ION PLATED GOLD 67-12 M12-82456
MECHANICAL PROPERTIES OF METAL IMPREGNATED GRAPHITES 67-12 M17-82811

POROSITY, ALLOYING EFFECTS
RESIDUALS--MISCHIEVOUS MITES IN STAINLESS 67-03 M17-65490
MONEL METAL-BASE POWDER COMPOSITE COMPACTING MATERIAL 67-08 M09-74913
GAS CONTENT VARIATION IN ALUMINUM ALLOYS DURING TREATMENT WITH ZIRCONIUM 67-11 M03-81466
METALLURGY OF CU FOR ELECTRICAL USE 67-12 M03-82896

POROSITY, HEATING EFFECTS
THE ABNORMALLY INTENSIVE DEVELOPMENT OF POROSITY IN AL-CU ALLOY 67-08 M10-75276

POROSITY, RADIATION EFFECTS
THE DISTRIBUTION OF AND SWELLING PRODUCED BY FISSION GAS BUBBLES IN ALPHA AND BETA URANIUM IRRADIATED UNDER LOW STRESS 67-09 M16-78257

POROSITY, WELDING EFFECTS
POROSITY IN WELDMENTS AND METHODS OF PREVENTION 67-09 M15-78199

POROUS MATERIALS
SEE ALSO POROUS METALS
SPONGE METAL
SINTERED, POROUS METALLIC ELEMENTS--THEIR PROPERTIES AND USES 67-04 M09-67397

POROUS MATERIALS, MACHINING
CUTTING FORCE DURING MACHINING OF POROUS SINTERED MATERIALS 67-12 M08-82215

POROUS MATERIALS, SPECTRUM ANALYSIS
POROSITY EFFECT OF A CERMET MATERIAL ON RELATIVE INTENSITY OF CERTAIN ELEMENT SPECTRAL LINES 67-08 M09-74313

POROUS METALS
SEE ALSO SPONGE METAL

POROUS METALS, PLASTIC DEFORMATION
THE MECHANISM OF DEFORMATION AND RUPTURE OF POROUS IRON 67-02 M17-62128

POROUS METALS, SINTERING
SINTERING KINETICS AND DIFFUSION CREEP OF SOLIDS 67-01 M09-57347

POSITIVE DISPLACEMENT PUMPS
SEE GEAR PUMPS
VANE PUMPS

POSITRONS
SEE ANTIPARTICLES

POST IRRADIATION
SEE IRRADIATION

POSTFORMING
SEE FORMING

POTASSIUM, ADSORPTION
ADSORPTION AND ELECTRON EMISSION OF POTASSIUM FILMS ON TUNGSTEN SINGLE CRYSTAL FACES 67-10 M15-79443
POTASSIUM, ALLOYING ADDITIVE
GROWTH AND PREFERRED ORIENTATIONS OF LARGE ELONGATED GRAINS IN DOPED TUNGSTEN SHEET 67-06 M13-69949
POTASSIUM, ATOMIC PROPERTIES
MORSE-POTENTIAL EVALUATION OF SECOND- AND THIRD-ORDER ELASTIC CONSTANTS OF SOME CUBIC METALS 67-09 M16-77156
POTASSIUM, CRYSTAL GROWTH
TECHNIQUES FOR THE GROWTH OF LARGE SINGLE CRYSTALS OF POTASSIUM OF HIGH PURITY 67-08 M14-75668
POTASSIUM, CRYSTAL LATTICES
DISLOCATION DYNAMICS IN DEFORMATION AND RECOVERY 67-07 M13-73057
POTASSIUM, DEPOSITION
INVESTIGATION OF THE CONDITIONS OF CONDENSATION FOR POTASSIUM VAPORS AND ACCOMPANYING KCL VAPORS IN THE PRODUCTION OF POTASSIUM USING THE VACUUM-THERMAL METHOD 67-09 M03-77057
POTASSIUM, DIFFUSION
SELF-DIFFUSION IN POTASSIUM 67-05 M14-68760
DIFFUSION OF ALKALI METALS IN MOLYBDENUM AND COLUMBIUM 67-07 M14-74189
DIFFUSION OF POTASSIUM IN SINGLE CRYSTALS AND POLYCRYSTALLINE AGGREGATES OF MOLYBDENUM 67-08 M14-74976
STUDY OF THE DIFFUSION OF SODIUM AND POTASSIUM IN IRON 67-11 M14-80582
POTASSIUM, ELECTRICAL PROPERTIES
THE TEMPERATURE DEPENDENCE OF THE ELECTRICAL RESISTANCE OF ALKALI METALS AT LOW TEMPERATURES 67-01 M16-58399
POTASSIUM, EXTRACTION
INVESTIGATION OF THE GASEOUS PHASE AND CONDITIONS OF DEGASSING CHARGES IN THE PRODUCTION OF ALKALINE METALS BY VACUUM-THERMAL METHODS 67-09 M03-77049
POTASSIUM, LIQUID METALS
WAVE NUMBER-DEPENDENT ELASTIC MODULI IN LIQUID METALS 67-10 M16-78444
POTASSIUM, MECHANICAL PROPERTIES
CREEP IN POTASSIUM AS A FUNCTION OF TEMPERATURE AND PRESSURE 67-06 M17-70683
THE APPLICATION OF STRAIN-RATE CYCLING DATA TO THERMALLY ACTIVATED DEFORMATION 67-07 M17-73914
POTASSIUM, PHYSICAL PROPERTIES
THERMODYNAMICS OF THE REDUCTION OF POTASSIUM CHLORIDE BY CALCIUM-SILICON 67-04 M03-67093
X-RAY K-ABSORPTION SPECTRUM OF METALLIC POTASSIUM 67-05 M15-69542
DENSITIES OF LITHIUM, SODIUM AND POTASSIUM AT TEMPERATURES UP TO 1500-1600 C 67-10 M15-79252
EXPERIMENTAL DATA ON THE VELOCITY OF SOUND IN ALKALI METALS AT TEMPERATURES UP TO 800 C 67-10 M15-79253
POTASSIUM, REACTIONS /CHEMICAL/
CARBON AND NITROGEN TRANSFER IN A TYPE-316 STAINLESS STEEL, CB-1 PER CENT ZR, LIQUID-POTASSIUM SYSTEM 67-04 M14-66389
POTASSIUM, REDUCTION /CHEMICAL/
METHOD FOR PRODUCING POTASSIUM METAL 67-02 M03-58883
SEMI-INDUSTRIAL VIBRATION FURNACE FOR PRODUCING ALKALINE METALS --POTASSIUM--BY THE VACUUM-THERMAL METHOD 67-08 M03-75145
POTASSIUM, SOLVENTS
SOLUBILITY STUDIES OF ULTRA PURE TRANSITION ELEMENTS IN ULTRA PURE ALKALI METALS 67-01 M15-58508
POTASSIUM, SURFACE PROPERTIES
STUDY OF THE SURFACE TENSION OF LIQUID SODIUM AND POTASSIUM 67-06 M15-72040
POTASSIUM, TERNARY SYSTEMS
A NEW PHASE OF NONSTOICHIOMETRIC NATURE IN THE POTASSIUM-OXYGEN-VANADIUM SYSTEM 67-11 M01-81565
POTASSIUM, THERMAL PROPERTIES
MEASUREMENTS OF THE THERMAL CONDUCTIVITY OF SINGLE CRYSTALS OF POTASSIUM BETWEEN 2.5 AND 40 K 67-11 M15-81388
POTASSIUM, THERMODYNAMICS
INFLUENCE OF PRESSURE ON THE HEAT CAPACITY OF METALS 67-04 M15-68010
POTASSIUM BASE ALLOYS, CHEMICAL ANALYSIS
THE DETERMINATION BY FLAME PHOTOMETRY OF POTASSIUM AND SODIUM IN K-NA ALLOYS AND IN MIXTURES OF THE ALKALIES KOH AND NAOH 67-05 M19-69623
POTASSIUM BASE ALLOYS, CORROSION ENVIRONMENTS
RESISTANCE OF CORUNDUM CERAMIC TO LIQUID POTASSIUM-SODIUM ALLOY 67-05 M18-68600
POTASSIUM BASE ALLOYS, THERMAL PROPERTIES
HEAT OF MIXING IN LIQUID ALLOYS 67-03 M15-65163
LOW-TEMPERATURE LATTICE THERMAL CONDUCTIVITY OF POTASSIUM-CESIUM ALLOYS 67-05 M15-69814
POTASSIUM COMPOUNDS, BINARY SYSTEMS
MISCIBILITY OF METALS WITH SALTS. PT. 7. THE POTASSIUM-POTASSIUM SULFIDE SYSTEM 67-05 M13-69031
POTASSIUM COMPOUNDS, CORROSION
THERMOGRAVIMETRIC INVESTIGATIONS OF SUBSTANCES CONTAINING SULFATE WITH HIGH-TEMPERATURE CORROSION ON THE FIRE SIDE OF COAL-FIRED BOILERS 67-02 M18-62009
POTASSIUM COMPOUNDS, METALLOGRAPHY
ELECTRON MICROPROBE AND ELECTRON DIFFRACTION ANALYSIS OF SURFACE REPLICA EXTRACTIONS 67-07 M13-72807
POTASSIUM COMPOUNDS, PHASE TRANSFORMATIONS
DIELECTRIC AND OPTICAL INVESTIGATIONS OF THE IRREVERSIBLE FERROELECTRIC PHASE TRANSITION IN CRYSTALS OF POTASSIUM 67-09 M15-76783
POTASSIUM COMPOUNDS, REACTIONS /CHEMICAL/
REACTION OF ALUMINUM WITH HYDROGEN AND POTASSIUM FLUORIDE 67-02 M14-59130
POTASSIUM COMPOUNDS, TERNARY SYSTEMS
THE SYSTEM KA1SIO4-MG2SIO4-KA1SI2O6 67-08 M13-76091
POTASSIUM COMPOUNDS, THERMAL PROPERTIES
THERMODYNAMICS OF THE REDUCTION OF POTASSIUM CHLORIDE BY CALCIUM-SILICON 67-04 M03-67093
POTENTIAL /ELECTRIC/
SEE ELECTRIC POTENTIAL
POTENTIOMETERS /INSTRUMENTS/
DETERMINATION OF SULFUR AND CARBON FROM A SINGLE WEIGHING IN CARBON AND HIGH-ALLOY STEELS 67-07 M19-72674
THE EXAMINATION OF CORROSION PRODUCTS AND PROCESSES. PT. 2. POTENTIOSTATS 67-09 M18-76634
TRACE CHARACTERIZATION BY ELECTROCHEMICAL METHODS 67-11 M19-80133
POTENTIOMETRY
SEE POTENTIOMETERS /INSTRUMENTS/
POTLINING
SEE ELECTROLYTIC CELL LININGS
POTS /ELECTROLYTIC/
SEE ELECTROLYTIC CELLS
POURABILITY
ON THE FEEDING CHARACTERISTIC OF ALUMINUM ALLOYS. PT. 1 67-06 M06-71213
POURING
SEE ALSO BOTTOM POURING
PRESSURE POURING
TOP POURING
VACUUM POURING
ON THE CONTROL OF SOLID SKIN IN A RIMMED STEEL INGOT 67-02 M04-58843
TRANSVERSE AND LONGITUDINAL CRACKS IN BASIC OPENHEARTH BLOOMS 67-02 M04-60828
MEASURING THE METAL LEVEL IN POURING LADLES 67-02 M04-61916
COMPOSITE POURING TUBE 67-02 M06-60934
CASTING PIT OPERATIONS AT WHYALLA WORKS 67-04 M04-66113
THE TECHNOLOGICAL FEATURES OF THE HIGH-SPEED SIPHON TEEMING OF RIMMING AND SEMI-KILLED STEEL INGOTS 67-04 M04-67230
COPPER AND ALUMINUM --NON-FERROUS AND LIGHT METALS AND ALLOYS--. PT. 2 67-04 M06-66243
REVIEW OF INGOT PRACTICE 67-05 M04-68601
THE HARMFUL EFFECT OF THE QUANTITY OF OXYGEN IN THE BATH ON THE NATURE OF STEEL CASTING 67-06 M04-70113
THE QUALITY OF SLABS FROM RIMMING STEEL TEEMED AT HIGH SPEED 67-06 M04-70196
TEMPERATURE CYCLES OF INGOT MOLDS DURING USE. PT. 1. DETERMINATION OF TEMPERATURE CYCLES OF INGOT MOLDS MOUNTED ON BOGIES 67-06 M04-71823
ESTIMATION OF THE SKIN THICKNESS OF RIMMED STEEL INGOTS 67-06 M04-72289
POURING RATE AND NOZZLE WEAR OF STEEL PLANT LADLES

POURING

67-07 M04-73241
MINIMIZING THE AMOUNT OF SCALE AND NONMETALLIC INCLUSIONS IN CASTINGS OF 18-9 TI STEEL
67-07 M06-73015
SECTIONAL NOZZLE-BATCHERS FOR CONTINUOUS CASTING OF ELECTRICAL STEEL 67-08 M04-75594
REOXIDATION AND PRECIPITATION PROCESSES IN THE CASTING OF FULLY KILLED UNALLOYED STEELS
67-08 M06-75509
CONTINUOUS CONTROL OF TEMPERATURE CONDITIONS IN CASTING KILLED ELECTRIC STEEL
67-09 M04-77863
POURING PIT REFRACTORIES--NOZZLES
67-10 M04-79565
EFFECT OF BLAST FURNACE SLAG ON OPEN HEARTH OPERATIONS 67-11 M04-80111
PROTECTING STRUCTURAL STEELS FROM SECONDARY OXIDATION DURING TEEMING 67-11 M04-81009
USE OF BOIL INTENSIFIERS IN TEEMING
67-11 M04-81036
CHANGE IN CHEMICAL COMPOSITION OF RIMMING CONVERTER STEEL IN THE LADLE ON POURING
67-11 M04-81443
INTERACTION OF LIQUID TIN BRONZE WITH MOLD MOISTURE
67-12 M06-82092
ELECTROMAGNETIC POURING AND TREATMENT OF MOLTEN METAL 67-12 M06-83478

POURING, TEMPERATURE CONTROL
CONTROLLING THE TEMPERATURE OF THE MOLTEN STEEL DURING TEEMING 67-04 M04-67870

POWDER
SEE ALSO ALLOY POWDERS
CARBONYL POWDERS
COAL DUST
DUST
FINES
FLUE DUST
METAL POWDERS
SPHERICAL POWDER
ULTRAFINES

POWDER, COATING
VACUUM METALLIZATION OF POLYMER POWDERS--PREPARATION OF POWDERS AND THEIR THERMOMECHANICAL AND ELECTRICAL PROPERTIES 67-08 M09-75848

POWDER, COATINGS
ELECTROCOATING STEEL PIPE WITH DRY RESIN POWDER
67-03 M12-65487
ELECTROSTATIC POWDER COATINGS 67-07 M12-72935

POWDER, ELECTRICAL PROPERTIES
ELECTRICAL RESISTIVITY OF SINGLE CRYSTAL CRO2
67-03 M16-65649

POWDER, MAGNETIC PROPERTIES
MAGNETIZATION REVERSAL PROCESS IN BARIUM FERRITE POWDERS 67-06 M15-71765

POWDER, MELTING
PLASMA FURNACE FOR MELTING AND SPHEROIDIZING OF CERAMIC POWDERS 67-12 M09-82805

POWDER CUTTING
A METHOD AND A DEVICE FOR FEEDING UNIFORM BATCHES OF POWDER 67-02 M11-61051

POWDER LANCING
SEE POWDER CUTTING

POWDER METALLURGY
FRICTION POWDER FOR CLUTCH PLATES IN COMPUTERS
67-01 M09-57137
OBTAINING NIOBIUM AND NIOBIUM ALLOY POWDERS FROM DENSE METALS AND ALLOYS BY HYDROGENATION
67-01 M09-57277
SINTERED PARTS MADE OF STAINLESS STEEL POWDER
67-01 M09-57611
PREPARATION AND PROPERTIES OF ESD MAGNETS FROM SINGLE-DOMAIN PARTICLES 67-01 M09-57997
VACUUM SINTERING OF HARD ALLOYS
67-01 M09-58172
ROLE OF POWDER METALLURGY IN THE FABRICATION OF VERY LARGE PARTS 67-01 M09-58683
DEVELOPMENT TRENDS IN MODERN POWDER METALLURGY
67-01 M09-58717
RECENT DEVELOPMENTS IN PRESSURE-HYDROMETALLURGY
67-02 M03-61299
EXPERIENCE IN PRODUCING REFRACTORY COMPOUNDS UNDER INDUSTRIAL CONDITIONS 67-02 M05-62117
ATOMIZING TECHNIQUES AS AUXILIARY MEANS IN THE POWDER SINTERING PROCESS 67-02 M09-58932
POWDER ALLOYS OFFER HIGH PRECISION
67-02 M09-59001
IRON POWDER WITH LOW O2 CONTENT FOR STRUCTURAL P/M PARTS. PT. 1. DATA FOR COMPONENT DESIGNERS
67-02 M09-59035
HOT-PRESSING OF URANIUM DIOXIDE
67-02 M09-59055
SINTERED METAL PRODUCTS 67-02 M09-59446
DIRECT CURRENT PLASMA--A NEW SPHEROIDIZING PROCESS
67-02 M09-59468
STUDY OF THE PRODUCTION OF SINTERED MAGNETIC POLES USED FOR TRUCK STARTERS 67-02 M09-59575
INFLUENCE OF NI, CO AND MN ADDITIONS ON ACTIVATION OF SINTERING OF IRON POWDERS. PT. 2
67-02 M09-59606
MANUFACTURING OF IRON POWDER BY DIRECT REDUCTION WITH NATURAL GAS 67-02 M09-59611
ELECTROLYZER FOR PREPARATION OF HYPERFINE POWDERY COPPER 67-02 M09-59613
SOME PROBLEMS IN PRODUCING PARTS FROM SILICON NITRIDE 67-02 M09-59781
MICROSTRUCTURE AND PROPERTIES OF TUNGSTEN-CARBIDE-COBALT HARD ALLOYS, THEIR MUTUAL EFFECTS AND THEIR DEPENDENCY ON THE INITIAL POWDERS
67-02 M09-59914
INVESTIGATION OF VALUE OF LATERAL PRESSURE COEFFICIENT DURING PRESSING OF IRON POWDERS
67-02 M09-60174
INVESTIGATION OF THE PRODUCTION OF CERMET PARTS WITH VARIABLE PHYSICAL AND MECHANICAL PROPERTIES
67-02 M09-60178
TRENDS IN THE DEVELOPMENT OF SINTERED MATERIALS
67-02 M09-60205
WHATS NEW IN POWDER METALLURGY 67-02 M09-60249
AUTOCLAVE TECHNOLOGY OF PRODUCING COPPER POWDERS
67-02 M09-60560
MECHANICAL PARAMETERS OF COPPER-ALUMINUM CERMETS AS FUNCTIONS OF TEMPERATURE 67-02 M09-60583
SOME CHARACTERISTICS IN BEHAVIOR OF PURE OXIDES DURING PRESSING 67-02 M09-60596
POWDER METALLURGY 67-02 M09-60817
DISPERSION HARDENED WROUGHT URANIUM
67-02 M09-60946
TECHNOLOGY OF UO2 SINTERING 67-02 M09-60992
POWDER METALLURGY EQUIPMENT MANUAL. PT. 2. COMPACTING PRESSES AND TOLLING
67-02 M09-61001
HIGH-PRESSURE FORMING FOR PRODUCTION
67-02 M09-61107
ON ALUMINUM ALLOYS WITH REFRACTORY ELEMENTS PRODUCED BY GRANULATION 67-02 M09-61286
ROLLING OF TUNGSTEN AND MOLYBDENUM AT LOW-PARTIAL PRESSURE OF OXYGEN 67-02 M09-61621
STUDY OF PREPARATION OF NICKEL POWDER BY ELECTROLYSIS 67-02 M09-61701
CONDITIONS OF PREPARATION OF COMPLEX CARBIDE ALLOYS CONTAINING SCANDIUM CARBIDE 67-02 M09-61787
ON THE SINTERING OF SINGLE CRYSTAL RUTILE
67-02 M09-61822
THE DEPENDENCE OF THE TECHNOLOGICAL PROPERTIES OF TANTALUM AND NIOBIUM ON THE PHYSICOCHEMICAL CHARACTERISTICS OF THEIR STARTING POWDERS
67-02 M09-62104
INVESTIGATION OF EQUATIONS OF POROUS MATERIAL COMPACTION 67-02 M09-62176
PREPARATION OF HIGH-POROSITY MATERIALS FROM REFRACTORY COMPOUNDS 67-02 M09-62189
PRODUCTION OF IRON POWDER FROM ALLOY STEEL SCALE BY REDUCTION WITH CONVERTED NATURAL GAS
67-02 M09-62201
STORAGE BATTERY ELECTRODES MADE BY ROLLING CARBONYL NICKEL POWDER 67-02 M09-62202
MANUFACTURE OF STEEL-ALUMINUM WIRE BY THE POWDER METALLURGY METHOD 67-02 M09-62203
THE HIGH-TEMPERATURE SINTERING OF TUNGSTEN
67-02 M09-62205
PHYSICAL AND MECHANICAL PROPERTIES OF HYPEREUTECTIC AL-SI 21 ALLOY SINTERED PRODUCTS
67-02 M09-62289
ACTIVATED SINTERING OF BERYLLIUM
67-03 M09-65290
DEVELOPING A PROCESS OF PLASMA PRODUCTION OF SPHERICAL POWDERS FROM REFRACTORY METALS
67-03 M09-65798
MAGNESIA PRECURSOR AND SINTERING STUDY
67-04 M05-67325
EFFECT OF SMALL ADDITIONS OF COPPER ON SINTERING OF STAINLESS STEEL 67-04 M09-66094
INVESTIGATION OF THE COMPACTION OF COPPER-TIN CERMET ALLOYS DURING SINTERING
67-04 M09-66255
COMPARATIVE INVESTIGATION OF THE PROPERTIES OF NICKEL-GRAPHITE COMPOSITES CONTAINING CARBONYL NICKEL OR ELECTROLYTIC NICKEL

67-04 M09-66257
CARBOTHERMAL METHOD OF PREPARATION OF CHROMIUM, MOLYBDENUM AND ZIRCONIUM BORIDES
67-04 M09-66261
MICROSTRUCTURE OF MOLECULAR CERMETS
67-04 M09-66263
PECULIARITIES OF THE VACUUM-THERMAL METHOD OF PREPARATION AND SOME PROPERTIES OF YTTRIUM AND GADOLINIUM BORIDES 67-04 M09-66266
A METHOD FOR MANUFACTURING OF LARGE-SIZE POROUS TUBES 67-04 M09-66268
OBTAINING HIGH-DISPERSION ALUMINUM POWDER BY SPARK EROSION 67-04 M09-66833
ROLLING ALUMINUM POWDER INTO COILED DENSE-EDGE STRIP 67-04 M09-66841
ARGON VAPORIZING TECHNIQUE GIVES SUBDISPERSION METAL POWDERS 67-04 M09-66879
ALUMINUM POWDER FOR HIGH-STRENGTH SAP
67-04 M09-66880
METHOD OF OBTAINING METAL BORIDES
67-04 M09-66962
FABRICATION OF COMPLEX BERYLLIUM SHAPES BY GAS-PRESSURE COMPACTION 67-04 M09-67197
EFFECT OF SPHEROIDIZATION ON THE STRUCTURE AND PROPERTIES OF POWDERS 67-04 M09-67332
STUDY OF THE DENSIFICATION OF REFRACTORY COMPOUND POWDERS BY THE ELECTRICAL CONDUCTIVITY METHOD
67-04 M09-67333
MECHANISM OF METALLIC CONTACT FORMATION IN SAP TYPE ALLOYS 67-04 M09-67335
INVESTIGATION OF THE CONDITIONS OF THE FORMATION OF HARD ALLOYS WITH AN UNEVEN DISTRIBUTION OF THE CARBIDE PHASE. PT. 1 67-04 M09-67339
ON POWDER ROLLING PROCESS 67-04 M09-67585
DEVELOPMENT OF METHODS OF PRODUCING BERYLLIUM TUBES FOR NUCLEAR FUEL ELEMENT CANS
67-04 M09-67886
HYPEREUTECTIC ALUMINUM-SILICON ALLOYS PRODUCED BY HOT COMPACTION OF ATOMIZED POWDER
67-04 M09-68161
PREVENTION OF GROWTH OF DISPERSE PARTICLES IN NICKEL 67-04 M10-67340
RELAXATION AND ELASTIC PROPERTIES OF MOLYBDENUM
67-04 M15-67837
INVESTIGATION OF THE EFFECT OF POROSITY ON THE STRENGTH PROPERTIES OF POWDERED-METAL BRONZES
67-05 M09-68201
STRUCTURAL TRANSFORMATIONS DURING HEATING OF ALUMINUM OXIDE POWDER 67-05 M09-68392
DIFFUSIONAL MODELS AND SINTERING OF REAL POWDERS
67-05 M09-68393
OXYGEN CONTENT IN SINTERING METAL POWDERS--AN EXPERIMENTAL STUDY 67-05 M09-68394
PRE-INFILTRATED IRON-COPPER POWDER
67-05 M09-68944
OXIDE DISPERSION-STRENGTHENED PLATINUM
67-05 M09-68945
RELATIONS BETWEEN PORE STRUCTURE AND DENSIFICATION MECHANISM IN THE COMPACTING OF IRON POWDERS. PT. 2. THEORETICAL CONSIDERATIONS ABOUT THE CHANGE OF PORE SIZE DISTRIBUTION IN COMPACTING
67-05 M09-68946
TOKENS AND MEDALLIONS MADE BY POWDER METALLURGY
67-05 M09-68948
HIGH-VELOCITY COMPACTION OF METAL POWDERS
67-05 M09-69162
ZINC POWDER--MANUFACTURING AND DELIVERY SPECIFICATIONS 67-05 M09-69236
HOW EXTERNAL FRICTION AFFECTS METAL POWDER COMPACTION 67-05 M09-69304
PERMANENT CERMET MAGNETS MADE FROM GROUND AND MACHINED CAST MAGNET WASTE 67-05 M09-69305
IMPROVED COMPACTING METHODS GIVE BETTER POWDER PARTS 67-05 M09-69444
HEAT RESISTANT POWDERED-METAL MATERIALS
67-06 M09-70166
THE DETERMINATION OF THE MECHANISM OF SINTERING
67-06 M09-70416
THE PROCESS OF COMPACTION OF MOLYBDENUM DISILICIDE
67-06 M09-70764
MECHANICAL PROPERTIES OF MATERIALS BASED ON SIC AND SI3N4 67-06 M09-70775
SOME METHODS OF MOLDING AND SINTERING CARBIDES
67-06 M09-70778
SLIP CASTING OF MOLYBDENUM DISILICIDE
67-06 M09-70958
THE MECHANICAL PROPERTIES OF SINTERED METAL-GLASS MATERIALS 67-06 M09-70963
THE DEPENDENCE OF THE UNEVEN VERTICAL DISTRIBUTION OF THE PROPERTIES OF SINTERED FILTER ELEMENTS ON THE TECHNOLOGY OF THEIR MANUFACTURE
67-06 M09-70967
ACTIVATED SINTERING OF TUNGSTEN WITH SMALL ADDITIONS OF NICKEL 67-06 M09-71459
PRODUCTION OF LANTHANUM, GADOLINIUM AND YTTRIUM HEXABORIDES USING ELECTRON BEAM HEATING
67-06 M09-71460
CONTRIBUTION TO THE STUDY OF GRAIN ORIENTATION IN COLUMNS OF POWDER AND SINTERED PARTS UNDER THE EFFECT OF INTERMEDIATE LAYERS
67-06 M09-71754
PERMEABILITY TECHNIQUES FOR CHARACTERIZING FINE POWDERS 67-06 M09-71798
A NEW TECHNIQUE FOR FRACTIONATING POWDERS
67-06 M09-71799
INFLUENCE OF ANTIMONY ADDITION IN ELECTROLYTE ON PRECIPITATION OF COPPER POWDER
67-06 M09-72317
CALCULATION OF TERMINAL FEED ANGLE DURING VERTICAL ROLLING OF POWDERS 67-06 M09-72318
PREPARATION OF SOLID SOLUTIONS OF SOME COMPLEX CARBIDES OF TRANSITION METALS
67-06 M09-72323
LOSS OF STRENGTH DURING ANNEALING OF STRAINED ALLOYS OF NICKEL-ALUMINIUM OXIDE
67-06 M09-72327
INVESTIGATION OF THE EFFECT OF THE SIZING ALLOWANCE ON THE SURFACE QUALITY OF FERROGRAPHITE BUSHINGS
67-06 M19-70965
COMBINED REDUCTION OF IRON SCALE IN VERTICAL, CONTINUOUS-TYPE MUFFLE FURNACE
67-07 M09-72501
RHEOLOGICAL PROPERTIES OF PLASTICIZED POWDER METAL CHARGE. PT. 3. CHARACTERISTICS OF EXTRUSION OF POWDER CHARGE 67-07 M09-72506
SOME PROBLEMS IN SINTERING AND COMPACTION OF STOCK ROLLED FROM POWDERS 67-07 M09-73031
DISPERSION STRENGTHENED METALS--STRONGER AT HIGH TEMPERATURES 67-07 M09-73334
THE USE OF BLENDING PROCEDURES AND OF NICKEL ADDITONS IN THE COMPACTION OF AN ACICULAR ELECTROWON TUNGSTEN POWDER 67-07 M09-73404
ADVANCED METAL COMPOSITES--A STATUS REPORT
67-07 M09-73720
ACTIVATED SINTERING IN BERYLLIUM POWDERS BY SELECTIVE ADDITION OF TRACE ELEMENTS
67-07 M09-73758
RECENT ADVANCES IN POWDER METALLURGY
67-07 M09-73824
THE PRODUCTION AND PROPERTIES OF DUCTILE COBALT STRIP 67-07 M09-73826
NEW METHODS FOR THE CONSOLIDATION OF METAL POWDERS. V 1. PERSPECTIVES IN POWDER METALLURGY
67-07 M09-73873
RECENT DEVELOPMENT TRENDS IN POWDER METALLURGY
67-07 M09-73898
MIX YOUR METALS TO GET OPTIMUM PROPERTIES
67-07 M09-74091
PHYSICOCHEMICAL PRINCIPLES OF VIBRATORY COMPACTING. PT. 1 67-07 M09-74115
VIBRATIONAL COMPACTION OF NUCLEAR FUELS
67-07 M09-74118
VIBRATORY COMPACTING. V 2, PERSPECTIVES IN POWDER METALLURGY
STREET, NEW YORK, N.Y. 10011 67-07 M09-74119
JOINING TECHNIQUES FOR SAP--CLAD NUCLEAR FUEL ELEMENTS 67-07 M11-73825
PLASTIC PROPERTIES OF THIN SHEET MOLYBDENUM AT VARIOUS DEFORMATION RATES 67-07 M17-73952
CARBONYL METHOD FOR PRODUCTION OF FINE AND UNIFORM IRON OXIDE POWDERS 67-08 M09-74301
METHOD FOR PRODUCTION OF IRON POWDERS BY REDUCTION WITH CARBIDES
67-08 M09-74302
MAKING POROUS PARTS OF CHROMIUM CARBIDE WITH APPLICATION OF VOLATILE FILLERS
67-08 M09-74307
INVESTIGATION OF THE PROPERTIES OF MATERIALS OF COPPER POWDER, PRODUCED BY CEMENTATION FROM CHLORIDE SOLUTIONS 67-08 M09-74308
SEMIAUTOMATIC INSTRUMENT FOR SEDIMENTOMETRIC ANALYSIS OF POWDERS 67-08 M09-74317
CHEMICAL METHOD FOR PRODUCTION OF THE MATERIALS FOR ELECTRIC CONTACTS 67-08 M09-74319
INVESTIGATION OF ULTRAFINE POWDERS OF COPPER AND BRONZE 67-08 M09-74320
PROPERTIES OF POWDERS AND POWDER METALLURGY PRODUCTS 67-08 M09-74811

RESULTS OF THE INVESTIGATION OF THE COMPOSITION OF MAGNESIUM CHROMIUM OXIDE 67-08 M09-74907
STRESS ANALYSIS DURING ROLLING OF METAL POWDERS 67-08 M09-75425
RESEARCH INTO MAGNIKO POWDERED METAL MAGNETS WITH HIGH COERCIVE FORCES 67-08 M09-75455
AUTOMATED LINE FOR THE PRODUCTION OF POWDER COMPOSITE BILLETS OF VALVE GUIDE SOCKETS 67-08 M09-75468
INVESTIGATION OF THE ELECTROLYTIC PREPARATION OF NICKEL POWDER 67-08 M09-75846
INVESTIGATION OF THE EQUATIONS OF COMPACTION OF POROUS MATERIALS 67-08 M09-75952
PREPARATION OF HIGH-POROSITY MATERIALS FROM REFRACTORY COMPOUNDS 67-08 M09-75965
MANUFACTURE OF BERYLLIUM 67-08 M09-76100
DISPERSION STRENGTHENED MATERIALS 67-08 M14-74687
FIBER-STRENGTHENED MATERIALS 67-08 M14-74688
SG-100 NICKEL --HIGH PURITY NICKEL-- 67-09 M09-76526
PRODUCTION OF POWDER COMPOSITE FERROSILICON MAGNETIC CONDUCTORS WITH PLANAR DIELECTRIC LAYERS 67-09 M09-76570
THE STRUCTURE AND PROPERTIES OF DISPERSION HARDENED LEAD 67-09 M09-76601
CATHODE FOR OBTAINING COPPER POWDER BY ELECTROLYSIS 67-09 M09-76871
MANUFACTURE OF POWDERED-METAL MATERIALS CONTAINING ADDITIVES 67-09 M09-76898
DETERMINATION OF THE LATERAL PRESSURE COEFFICIENT IN THE COMPACTION OF IRON POWDERS 67-09 M09-76907
ACTIVATION OF THE SINTERING OF IRON POWDER BY NICKEL, COBALT, AND MANGANESE ADDITIONS. PT. 1 67-09 M09-76909
DENSIFICATION DURING THE HOT PRESSING OF MAGNESIUM OXIDE WITH ADDITIONS 67-09 M09-76910
FEASIBILITY OF MANUFACTURE OF HARD-ALLOY PARTS WITH VARIABLE PHYSICO-MECHANICAL PROPERTIES 67-09 M09-76911
ANALYSIS OF DENSIFICATION KINETICS DURING THE SINTERING OF REDUCED CHROMIUM POWDER 67-09 M09-76923
ACTIVATION OF THE SINTERING OF IRON POWDER BY NICKEL, COBALT, AND MANGANESE ADDITIONS. PT. 2 67-09 M09-76924
ELECTROLYZER FOR THE PREPARATION OF FINE COPPER POWDER 67-09 M09-76931
OBTAINING IRON POWDER BY DIRECT REDUCTION WITH NATURAL GAS 67-09 M09-76932
INVESTIGATION OF VIBRATIONAL COMPACTING OF HARD ALLOY POWDERS 67-09 M09-76961
MEASUREMENT OF TEMPERATURES DURING ELECTRIC CONTACT SINTERING OF METAL POWDERS 67-09 M09-76991
PRODUCTION OF SINTERABLE, SLIGHTLY ENRICHED URANIUM DIOXIDE IN FLUIDIZED-BED FURNACES 67-09 M09-77202
GRAIN GROWTH DURING SINTERING OF TUNGSTEN 67-09 M09-77460
HOT PRESSING OF BERYLLIA AND ZIRCONIA 67-09 M09-77474
CRITERIA FOR THE SELECTION OF ADDITIVES TO ENABLE THE SINTERING OF ALUMINA TO PROCEED TO THEORETICAL DENSITY 67-09 M09-77527
EFFECTS OF RESIDUAL GAS ON THE SINTERING OF ALUMINA TO THEORETICAL DENSITY IN VACUUM 67-09 M09-77528
THE SINTERING PROCESS 67-09 M09-77545
POWDER METALLURGY 67-09 M09-78162
PROPERTIES OF AL-MG-FE ALLOY OBTAINED BY SINTERING OF ATOMIZED POWDERS 67-09 M09-78256
PHYSICAL AND MECHANICAL PROPERTIES OF BLENDED AND BALL-MILLED ALUMINIUM-ALUMINIUM OXIDE ALLOYS 67-09 M09-78261
REINFORCEMENT OF METALS AND ALLOYS BY DISPERSED PARTICLES OR FIBERS 67-09 M14-76376
PARTICLE-SIZE DETERMINATION FOR FINE METAL POWDERS 67-09 M14-76906
EFFECT OF MAGNETIC ANNEALING ON THE MAGNETIZATION OF COBALT-FERRITE POWDERS 67-09 M15-76782
ABRASIVE POWER OF REFRACTORY COMPOUNDS 67-09 M17-76914
FABRICATION OF DENSE UO2 BY HOT PRESSING AND COEXTRUSION 67-10 M09-78473
A STUDY OF THE PREPARATION OF LEAD POWDER BY DIRECT REDUCTION OF LEAD MONOXIDE AND LEAD DIOXIDE 67-10 M09-78756
P/M PARTS 67-10 M09-78903
SELECTION OF POWDERS FOR THE PRODUCTION OF POROUS BLANKS 67-10 M09-78985
SINTERING PROCESSES IN METAL-GLASS MATERIALS. PT. 1. INFLUENCE OF SINTERING TEMPERATURE ON SHRINKAGE PROCESSES 67-10 M09-78986
DENSIFICATION DURING THE SINTERING OF COPPER TIN POWDER ALLOYS 67-10 M09-78987
A COMPARATIVE INVESTIGATION OF THE PROPERTIES OF NICKEL-GRAPHITE MATERIALS FROM ELECTROLYTIC AND CARBONYL NICKEL POWDERS 67-10 M09-78989
TECHNOLOGICAL CHARACTERISTICS OF W-NI-CU ALLOYS CONTAINING DISPERSED ZIRCONIUM DIOXIDE INCLUSIONS 67-10 M09-78991
CARBOTHERMIC METHOD OF PREPARATION OF CHROMIUM, MOLYBDENUM, AND ZIRCONIUM BORIDES 67-10 M09-78993
MICROSTRUCTURE OF MOLECULAR CERMETS 67-10 M09-78995
VACUUM-THERMAL PREPARATION OF YTTRIUM AND GADOLINIUM BORIDES, AND SOME OF THEIR PROPERTIES 67-10 M09-78998
METHOD OF PRODUCING LARGE POROUS PIPES 67-10 M09-79000
PREPARATION OF POWDERS ON PLANETARY MILL 67-10 M09-79339
EFFECT OF LIF ON HOT-PRESSING OF MGO 67-10 M09-79432
EFFECT OF ISOSTATIC PRESSURE ON SINTERING 67-10 M09-79433
MATERIALS FOR ENGINEERS. PT. 12. ADVANCES IN POWDER METALLURGY 67-10 M09-79500
LARGE PARTS OF REFRACTORY CARBIDES 67-10 M09-79580
FABRICATION OF BICRYSTALS OF ALUMINIUM OXIDE 67-10 M09-79603
THE NATURE AND EFFECTS OF EXCESS CARBON DEFECTS IN TUNGSTEN CARBIDE-COBALT ALLOYS ON MECHANICAL PROPERTIES 67-10 M09-79977
EFFECTS OF CARBON CONTENT ON THE PROPERTIES OF TUNGSTEN CARBIDE-TANTALUM CARBIDE-10 PER CENT COBALT CEMENTED CARBIDE 67-10 M09-79978
TITANIUM CARBIDE FORMATION 67-10 M09-79980
EXTRUSION OF ALUMINUM POWDER COMPACTS 67-10 M09-79981
MECHANICAL CHARACTERISTICS OF EXTRUDED SILVER-GRAPHITE COMPOUND MATERIALS 67-10 M17-79081
POWDER METALLURGY CRUCIBLE MATERIALS FOR THE MELTING AND EVAPORATION OF METALS 67-11 M09-80340
POWDER METALLURGY 67-11 M09-80478
COMBINED PROCESS FOR THE REDUCTION OF IRON SCALE IN CONTINUOUS VERTICAL MUFFLE FURNACES 67-11 M09-80887
METALS AND ALLOYS CONTAINING DISPERSION INCLUSIONS OF REFRACTORY COMPOUNDS AND FIBERS 67-11 M09-81308
PROGRESSIVE SHAPE CHANGES OF THE VOID DURING SINTERING 67-11 M09-81339
IRON POWDER VIA FECL2 TO GO COMMERCIAL 67-11 M09-81359
GAS PRODUCER MAKES GRANULATED FERROSILICON POWDER 67-11 M09-81401
AUTOMATIC ELECTROLYTIC CELL FOR OBTAINING METAL POWDERS BY ELECTROLYSIS OF AQUEOUS SALT SOLUTIONS 67-11 M09-81601
THE DEVELOPMENT OF CHROMIUM-BASE ALLOYS FOR USE AT HIGH TEMPERATURES 67-12 M01-82079
NEW STRENGTHS FOR OLD METALS 67-12 M01-83002
METHOD OF PRODUCING POWDER COMPOSITES WHICH CANNOT BE OBTAINED BY EXTRUSION IN MOLDS 67-12 M09-81789
IRON POWDER POISED FOR NEW BOOM 67-12 M09-81968
SINTERING OF PURE THORIUM OXIDE 67-12 M09-82056
ELECTROLYTICAL PRODUCTION OF COMPLEX METAL POWDER OF THE CO-NI SYSTEM 67-12 M09-82203
ATOMIZING OF BRONZE AND PROPERTIES OF THE POWDER PRODUCED 67-12 M09-82204
SLIP CASTING OF NIOBIUM CARBIDE 67-12 M09-82205
ELASTIC DEFORMATION OF ROLLS IN METAL POWDER ROLLING 67-12 M09-82206
ACTIVATION SINTERING OF TUNGSTEN WITH ADDITIONS OF PALLADIUM 67-12 M09-82207
MATERIALS REINFORCED WITH METALLIC FIBERS

67-12 M09-82210
PRODUCING INTRICATE SHAPES BY HOT PRESSING ALUMINUM OXIDE 67-12 M09-82640
PROPERTIES OF EXTRUDED NICKEL-ALUMINA ALLOYS 67-12 M09-82680
ACTIVATED SINTERING OF TUNGSTEN WITH SMALL ADDITIONS OF NICKEL 67-12 M09-82780
DEVELOPMENT OF A TECHNIQUE OF PREPARATION OF LA, GD, AND Y HEXABORIDES USING ELECTRON-BEAM HEATING 67-12 M09-82781
A STUDY OF THE PREPARATION OF LEAD POWDER BY DIRECT REDUCTION OF LEAD MONOXIDE AND LEAD DIOXIDE 67-12 M09-83125
SINTERING OF COMPACTED POWDERS. PT. 1 67-12 M09-83314
INFLUENCE OF LONG-TIME THERMAL TREATMENTS ON THE PROPERTIES OF AL-AL2O3 COMPOSITES 67-12 M09-83502
ACTIVATION SINTERING OF TUNGSTEN WITH ADDITIONS OF NICKEL 67-12 M09-83553
PRODUCTION SCALE TECHNOLOGY FOR IRON POWDER AT THE BROVARSK FACTORY 67-12 M09-83563
CHANGES IN SINTERING KINETICS UNDER THE INFLUENCE OF ULTRASONIC VIBRATIONS 67-12 M09-83566
EFFECT OF ALLOYING ON THE ELECTROCONDUCTIVITY OF CERIUM SULFIDE 67-12 M16-82688
STRUCTURE AND MECHANICAL PROPERTIES OF WC-TAC-CO SINTERED CARBIDES 67-12 M17-82160
BERYLLIUM 67-12 M17-83115
TIN AGAINST FRICTION AND WEAR 67-12 M20-81733

POWDER METALLURGY, HEATING EFFECTS
EFFECT OF HEAT TREATING ON POWDER METALS 67-09 M09-77494

POWDER METALLURGY, LUBRICATION
METALLIC STEARATES FOR POWDER METALLURGY 67-07 M09-73961

POWDER METALLURGY, QUALITY CONTROL
DETERMINATION OF THE SIZE OF PARTICLES OF FINELY DISPERSED METAL POWDERS 67-02 M09-60173
DETERMINATION OF POWDER SPECIFIC SURFACE BY FILTRATION OF RAREFIED GAS 67-08 M09-75420

POWDER METALLURGY PARTS
VARIATIONS IN PROPERTIES OF SINTERED THERMOELEMENTS 67-01 M09-58319
EFFECTS OF POWDER OXIDATION ON SINTERED THERMOELEMENTS 67-01 M09-58320
SINTERING 67-01 M09-58355
SINTERED METAL FRICTION MATERIALS 67-01 M09-58366
NONFERROUS METALS AND ALLOYS PRODUCED BY POWDER METALLURGY 67-01 M09-58374
IRON POWDER WITH LOW O2 CONTENT FOR STRUCTURAL P/M PARTS. PT. 1. DATA FOR COMPONENT DESIGNERS 67-02 M09-59035
SINTERING OF CERMET PISTON RINGS BY HIGH-FREQUENCY CURRENTS 67-02 M09-61638
USE OF GLASS IN POWDER METALLURGY 67-02 M09-61639
PROTECTION TUBES AND HIGH-TEMPERATURE THERMOCOUPLES WITH SILICON-CARBIDE THERMOELECTRODES 67-02 M09-61786
THE MOTION OF GASES AND LIQUIDS IN POROUS SINTERED MATERIALS 67-02 M09-62125
EXPERIENCE IN MANUFACTURING FRICTION SINTERED ALLOYS WITH AN IRON BASE 67-02 M09-62131
INVESTIGATION OF HARDFACING RODS OF CHROMIUM CARBIDE ALLOY 67-02 M09-62134
SINTERED METAL PRODUCTS 67-03 M09-65828
MACHINE ELEMENTS OF SINTERED MATERIAL 67-04 M09-66188
SELECTION OF POWDERS FOR OBTAINING PRESET PROPERTIES OF POROUS SHEET MATERIALS AND PRESSINGS 67-04 M09-66253
HOT DYNAMIC PRESSING OF METAL POWDERS AND CHIPS 67-04 M09-66957
FACTORS AFFECTING THE COMPACTION OF IRON POWDER AND ITS MECHANICAL PROPERTIES 67-04 M09-66958
HOT PRESSING TECHNIQUES AS APPLIED IN THE MANUFACTURE OF TUNGSTEN CARBIDE-BASE HARD-ALLOY ARTICLES 67-04 M09-67154
SINTERED, POROUS METALLIC ELEMENTS--THEIR PROPERTIES AND USES 67-04 M09-67397
ON SINTERING CERMETS IN METAL-ALUMINUM OXIDE SYSTEMS 67-04 M09-67838
ALUMINUM P/M PARTS NOW IN MASS PRODUCTION 67-04 M09-68130
INVESTIGATION OF THE EFFECT OF THE TEMPERATURE AT WHICH TUNGSTEN CARBIDE IS PRODUCED ON THE FORMATION OF SOLID SOLUTIONS WITH A NONUNIFORM DISTRIBUTION OF THE CARBIDE PHASE 67-06 M09-70767
THE STRUCTURE OF POROUS NICKEL ELECTRODES MADE BY THE POWDER METALLURGICAL METHOD 67-06 M09-70962
ELECTRIC INSULATION TUBE OF BORON CARBONITRIDE FOR PROTECTION OF METAL THERMOCOUPLES 67-06 M09-70970
BETEMA COMPACTING PRESSES FOR METAL POWDER 67-06 M09-71324
A NEW METHOD FOR COMPACTING METAL OR CERAMIC POWDERS INTO CONTINUOUS SECTIONS 67-07 M09-73864
POWDER METALLURGY PARTS IN AUTOMOBILE MANUFACTURING 67-08 M09-74318
PRODUCTION OF POWDER COMPOSITE CASINGS FOR THE TEETH OF MILLING CUTTERS 67-08 M09-74914
MANUFACTURING OF FERRITE POWDERS BY THE JOINT PRECIPITATION METHOD 67-08 M09-75424
ROTOR-TYPE CONTINUOUS MECHANIZED LINE FOR PRODUCTION OF POWDER COMPOSITE CONTACTS 67-08 M09-75476
HELICAL GEARS BY POWDER METALLURGY 67-08 M09-75489
POWDERED-METAL FRICTION ALLOY 67-10 M09-79809
NOW--STEEL IN POWDER METALLURGY 67-10 M09-80030
GEARING. PT. 2. GEAR MATERIALS 67-11 M20-81035
INFLUENCE OF POROSITY ON PROPERTIES OF POWDER METALLURGY ELECTRODES OF CARBONYL 67-12 M09-82212

POWDER METALLURGY PARTS, CASTING
SLIP CASTING OF METAL POWDERS 67-07 M09-73871
SLIP CASTING OF MOLYBDENUM PARTS 67-12 M09-83551

POWDER METALLURGY PARTS, CHEMICAL ANALYSIS
STEELOSCOPE DETERMINATION OF SULFUR IN SULFIDIZED CERMET PARTS 67-02 M19-62116

POWDER METALLURGY PARTS, COATING
THE BULK ELECTROPLATING OF SMALL PRODUCTS OF FERROUS POWDER METALLURGY 67-02 M12-60031
PARKERIZING SINTERED PARTS WITH PRELIMINARY HEAT TREATMENT 67-06 M12-70765
SOME PROMISING PROCESSES TO PROTECT SINTERED IRON AND STEEL AGAINST CORROSION 67-07 M18-73230
IMPROVING THE WEAR RESISTANCE OF PISTON RINGS BY PLASMA METALLIZING 67-08 M12-75429
THE GALVANIZING OF SINTERED MATERIALS 67-08 M12-75639
DIFFUSION COATING OF ZINC ON SINTERED IRON PARTS AND ATMOSPHERIC CORROSION RESISTANCE OF THE COATED PRODUCTS 67-09 M12-77812

POWDER METALLURGY PARTS, COMPACTING
EXPLOSIVE COMPACTING OF METAL POWDERS 67-07 M09-73862

POWDER METALLURGY PARTS, CORROSION
THE EFFECTS OF WATER VAPOR AND NITROGEN IN SINTERING ATMOSPHERES ON THE CORROSION RESISTANCE OF SINTERED STAINLESS STEEL 67-05 M18-68315
ANODIC CORROSION OF NICKEL SINTER IN POSITIVE ELECTRODES OF NICKEL-CADMIUM BATTERIES CONTAINING CARBONATE 67-06 M18-71689
CORROSION RESISTANCE OF POROUS MATERIALS PRODUCED BY HOT COMPACTION OF STEEL SHIPS 67-06 M18-72333
EXPERIMENTS ON GAS PROTECTION OF POROUS REFRACTORY MATERIALS AGAINST OXIDATION AND EROSION IN PLASMA FLOWS 67-08 M09-74315
INVESTIGATION OF SINTERING AND THE EFFECT OF THE ROASTING TEMPERATURE ON THE PHYSICAL AND CHEMICAL PROPERTIES OF ARTICLES MANUFACTURED FROM FERRUGINOUS SLAGS 67-08 M09-75458
INVESTIGATION OF THERMAL STABILITY OF LOW POROSITY BRONZES 67-08 M18-74311
CORROSION STUDIES ON SINTERED CR-NI STEELS 67-08 M18-74448
CORROSION OF COLUMBIUM CARBIDE AT HIGH TEMPERATURES IN INERT GASES OF TECHNICAL PURITY 67-10 M18-79676
THE PRODUCTION OF NONMETALLIC AND METALLIC PROTECTIVE SURFACE LAYERS ON SINTERED IRON 67-11 M18-80341

POWDER METALLURGY PARTS, CRYSTAL GROWTH
RECOVERY AND RECRYSTALLIZATION OF SINTERED TUNGSTEN WITH MINOR ADDITIONS OF NICKEL 67-12 M09-83559

POWDER METALLURGY PARTS, CRYSTAL LATTICES
SINTERING OF COMPACTED POWDERS. PT. 2 67-12 M09-83313

POWDER METALLURGY PARTS

FAULTING IN COMPACTED AG-9 AT. PER CENT SN ALLOY POWDERS 67-12 M13-83050
POWDER METALLURGY PARTS, CUTTING
DURABILITY OF CUTTERS WHEN CUTTING POROUS CERMET MATERIALS 67-02 M17-62133
WEAR OF THE CUTTERS DURING MACHINING OF POROUS MATERIALS 67-06 M09-74316
POWDER METALLURGY PARTS, DENSITY
MANUFACTURING OF PARTS BY VIBRATION COMPACTING 67-06 M09-72320
POWDER METALLURGY PARTS, DESIGN
DESIGNING POWDER METALLURGY PARTS 67-02 M09-61112
POWDER METALLURGY PARTS, DIFFUSION
X-RAY INVESTIGATION OF DIFFUSION DURING SINTERING OF NI-CR AND FE-CR COMPACTS 67-12 M09-83555
POWDER METALLURGY PARTS, DIMENSIONAL MEASUREMENTS
SINTERING OF METAL POWDER PARTS PRODUCED BY EXPLOSIVE COMPACTION 67-07 M09-73269
POWDER METALLURGY PARTS, ELECTRICAL PROPERTIES
PROPERTY VARIATIONS DUE TO SINTERING OF BI2TE3 THERMOELEMENTS MADE BY POWDER METALLURGY 67-11 M09-81068
POWDER METALLURGY PARTS, ETCHING
CERTAIN CONDITIONS FOR THE PREPARATION AND ETCHING OF THIN SECTIONS OF METAL-GRAPHITE COMPOSITIONS 67-02 M09-61794
POWDER METALLURGY PARTS, EXTRUSION
THE EXTRUSION OF METAL POWDERS 67-07 M09-73867
TECHNIQUES FOR THE PRODUCTION OF CHROMIUM STEEL AND NICHROME, HARDENED BY FINE REFRACTORY OXIDES 67-08 M09-75461
POWDER METALLURGY PARTS, FORGING
METALWORKING 67-11 M07-80531
POWDER METALLURGY PARTS, FRICTION
INVESTIGATION OF THE RUNNING-IN ABILITY OF IRON-BASE POWDERED-METAL MATERIALS 67-01 M09-58149
METAL-PLASTIC ANTIFRICTION MATERIALS FOR MANUFACTURING OF SALT-TYPE BEARINGS FOR LUBRICANT-FREE FRICTION 67-07 M09-72504
FRICTION BEARINGS WITH POWDER COMPOSITE ELEMENTS 67-08 M09-74918
POWDER METALLURGY PARTS, GRINDING
INVESTIGATION OF THE GRINDING PROCESS OF SINTERED STEEL 67-06 M09-72329
POWDER METALLURGY PARTS, HEAT TREATMENT
AGE-HARDENING CU-NI-SN BRONZES. PT. 9. THE DEVELOPMENT OF COMPLEX, ECONOMICAL ALLOYING POWDERS 67-01 M14-58627
SINTERING OF METAL POWDER STRUCTURAL MATERIALS BY INDUCTION HEATING 67-07 M09-72503
HEAT TREATING-P/M PARTS AND EXTRUSIONS 67-07 M10-73962
SINTERING OF CONSTRUCTIONAL POWDER MATERIALS BY HIGH-FREQUENCY CURRENTS 67-11 M09-80889
THE HEAT TREATMENT OF THE ONLY HARDENABLE HARD CARBIDE MATERIAL, FERRO-TIC-C SPECIAL. PT. 2 67-12 M10-83133
POWDER METALLURGY PARTS, IMPREGNATION
SECRETS OF IMPREGNATING P/M PARTS 67-07 M09-73964
POWDER METALLURGY PARTS, INFILTRATION
INFILTRATION OF COPPER AND BRASS INTO SINTERED IRON COMPACTS 67-07 M14-73252
POWDER METALLURGY PARTS, IRRADIATION
INVESTIGATION OF THE EMISSIVITY OF SINTERED TUNGSTEN 67-12 M16-82216
POWDER METALLURGY PARTS, JOINING
COUPLING OF SINTERED BEARINGS 67-10 M11-79351
POWDER METALLURGY PARTS, LUBRICATION
TECHNIQUES AND ORGANIZATION OF THE EXPERIMENTAL PRODUCTION OF METAL-PLASTIC ANTIFRICTION STRIP FOR COMPONENTS OPERATED UNDER CONDITIONS OF DRY FRICTION 67-08 M09-75473
POWDER METALLURGY PARTS, MACHINING
ON THE POSSIBILITY OF IMPROVING THE TECHNOLOGY ON MACHINING SINTERED BUSHINGS 67-02 M09-60186
THE GRINDING AND LAPPING OF SINTERED HARD MATERIALS 67-03 M08-65707
EXPANDING P/M PARTS APPLICATIONS THROUGH SECONDARY MACHINING 67-08 M09-75387
INVESTIGATION OF THE CUTTABILITY OF BRONZE-GRAPHITE COMPOSITES 67-08 M17-75438
ON THE POSSIBILITY OF IMPROVING THE MACHINING OF CERMET BUSHINGS 67-09 M08-76919
QUALITY OF MACHINED SURFACE OF POROUS BRONZE-GRAPHITE COMPOSITE 67-10 M08-79348
P/M PARTS CAN BE MACHINED 67-10 M09-79780
CUTTING FORCE DURING MACHINING OF POROUS SINTERED MATERIALS 67-12 M08-82215
POWDER METALLURGY PARTS, MAGNETIC PROPERTIES
RESEARCH INTO MAGNIKO POWDERED METAL MAGNETS WITH HIGH COERCIVE FORCES 67-08 M09-75455
USE OF POWDER COMPOSITE MAGNETIC CONDUCTORS IN ALTERNATING CURRENT DEVICES 67-08 M20-74912
SOFT MAGNETIC MATERIALS OBTAINED BY ROLLING METAL POWDERS 67-09 M09-76569
MAGNETIC PROPERTIES OF SINTERED COMPACTS OF IRON POWDERS WITH AND WITHOUT PHOSPHORUS ADDITION 67-09 M15-78247
POWDER METALLURGY PARTS, MATERIALS
FROM ALUMINUM POWDER TO P/M PREFORMS TO FORGED AND EXTRUDED PARTS 67-09 M09-78166
POWDER METALLURGY PARTS, MECHANICAL PROPERTIES
SINTERED METAL PRODUCTS 67-02 M09-59627
USE OF THE METHOD OF DYNAMIC HOT PRESSING IN POWDER METALLURGY PRODUCTION 67-02 M09-61704
INVESTIGATION OF THE BRITTLE FRACTURE OF SINTERED MATERIALS 67-02 M09-61710
INVESTIGATION OF THE STRENGTH AND DUCTILITY OF POWDER METALLURGY PARTS AT LOW TEMPERATURES 67-02 M09-61711
PREPARATION OF TIC, WC AND CRC CARBIDES AND INVESTIGATION OF THEIR PROPERTIES 67-02 M09-61713
THE PRODUCTION AND PROPERTIES OF SPHERICAL COPPER POWDERS AND PARTS FROM SUCH POWDERS 67-02 M09-61781
MODELING OF A POROUS BODY AND DETERMINATION OF RELATIVE CROSS-SECTIONAL WEAKENING BY PORES 67-02 M09-61792
INFLUENCE OF GRAIN SIZE-PURITY RELATIONSHIPS ON THE ABILITY TO FABRICATE BERYLLIUM AND THE RESULTING MECHANICAL PROPERTIES 67-03 M09-65284
CURRENT RESEARCH AT NUCLEAR METALS ON HIGH-PURITY BERYLLIUM 67-03 M09-65288
THE SYSTEM IRON CARBON IN POWDER METALLURGY 67-03 M09-65927
THE PERFORMANCE OF CROSS-ROLLED SHEET IN STRUCTURAL APPLICATIONS 67-03 M17-65296
INVESTIGATION OF CERMETS OF NICKEL-BORON NITRIDE COMPOSITION 67-04 M09-66256
PROPERTIES OF SINTERED ALUMINUM ALLOYS WITH A LOW COEFFICIENT OF LINEAR EXPANSION 67-04 M09-67122
STATISTICAL ESTIMATION OF STRENGTH OF POROUS IRON SPECIMENS 67-04 M17-67342
STRENGTH CHARACTERISTICS OF POROUS MATERIALS OF REFRACTORY COMPOUNDS 67-04 M17-67343
STUDY ON THE STRENGTH AND PLASTICITY OF SINTERED IRON DURING TENSION AT LOW TEMPERATURES 67-04 M17-67345
PRE-INFILTRATED IRON-COPPER POWDER 67-05 M09-68944
FATIGUE PROPERTIES OF POWDER METAL COMPOSITIONS 67-05 M17-68947
STRUCTURE AND PROPERTIES OF IRON-GRAPHITE SINTERED MATERIALS ALLOYED WITH NICKEL AND PHOSPHORUS 67-06 M09-72326
INVESTIGATION OF HEAT CONDUCTIVITY, ELECTRICAL CONDUCTIVITY AND MECHANICAL PROPERTIES OF IRON-BASE SULFIDIZED SINTERED MATERIALS 67-06 M09-72328
SINTERED STRUCTURAL MATERIALS 67-07 M09-72505
SOME PROBLEMS IN THE MANUFACTURE OF FRICTION MATERIALS ON AN IRON POWDER BASE 67-07 M09-72507
ISOSTATIC PRESSING OF POWDERED MATERIALS 67-07 M09-73860
THE COMPACTION OF METAL POWDERS BY ROLLING 67-07 M09-73866
HOT-EXTRUDED CHROMIUM COMPOSITE POWDER 67-07 M09-73868
HYDROSTATIC EXTRUSION OF METAL POWDERS 67-07 M09-73869
BERYLLIUM POWDER FORGING 67-07 M09-73870
SOME PROPERTIES OF P/M NICKEL ALLOY STEEL 67-07 M09-73958
FATIGUE BEHAVIOR UNDER ALTERNATING STRESSES OF MOLDED CARBON POWDER MATERIALS 67-07 M17-72480
PRESSIBILITY OF SINTERED IRON 67-07 M17-72522
MICROHARDNESS OF POROUS IRON IN A STRESSED STRAINED STATE 67-07 M17-73270
CHEMICAL METHOD FOR PRODUCTION OF THE MATERIALS FOR ELECTRIC CONTACTS 67-08 M09-74319
A STEEL POWDER FOR HIGH DENSITY PARTS

67-08 M09-74489
MONEL METAL-BASE POWDER COMPOSITE COMPACTING MATERIAL 67-08 M09-74913
THE FATIGUE PROPERTIES OF SINTERED IRON AND STEEL 67-08 M09-75386
INCREASE IN STRENGTH OF POWDERED-METAL ALLOYS BY MEANS OF COPPER PLATING IRON POWDER 67-08 M09-75446
PROCESSES OF MANUFACTURING ANISOTROPIC POWDER COMPOSITES AND DEVELOPMENT OF PRODUCTION PLANS 67-08 M09-75451
PRODUCTION OF HIGH-STRENGTH PRODUCTS FROM PIG IRON POWDER 67-08 M09-75453
POWDER COMPOSITE CONTACTS OF INCREASED WEAR RESISTANCE 67-08 M09-75454
SOME PROBLEMS OF ISOSTATIC COMPACTING OF METAL POWDERS IN ELASTIC SHELLS 67-08 M09-75456
MANUFACTURE OF POWDER COMPOSITE FILTERS FROM POWDERED WASTE PRODUCTS FORMED DURING SPARK MACHINING OF METALS AND ALLOYS 67-08 M09-75470
PRODUCTION AND PROPERTIES OF POWDERED COPPER HARDENED BY DISPERSED PARTICLES OF REFRACTORY COMPOUNDS 67-08 M09-75471
DESIGN FOR POWDER METALLURGY 67-08 M09-75611
APPLICATION OF DYNAMIC HOT PRESSING IN POWDER METALLURGY 67-08 M09-75849
PREPARATION AND PROPERTIES OF CARBIDES --TI, W, CR-- C 67-08 M09-75858
INVESTIGATION OF WC-CO CERMET 67-08 M09-75891
CHARACTER OF FRACTURE OF SINTERED MATERIALS 67-08 M17-75855
STRENGTH AND DUCTILITY CHARACTERISTICS OF SINTERED MATERIALS AT LOW TEMPERATURES 67-08 M17-75856
SINTERED NICKEL-BORON NITRIDE MATERIALS 67-10 M09-78988
INTERNAL FRICTION IN IRON-NICKEL HIGH-TEMPERATURE HARD ALLOYS 67-10 M17-79745
COMBINED PROCESS FOR THE REDUCTION OF IRON SCALE IN CONTINUOUS VERTICAL MUFFLE FURNACES 67-11 M09-80887
SINTERED CONSTRUCTIONAL MATERIALS 67-11 M09-80891
SOME PROBLEMS IN THE MANUFACTURE OF SINTERED IRON-BASE FRICTION MATERIALS 67-11 M09-80893
THE HARDNESS/POROSITY RELATIONSHIP IN CHROMIC OXIDE CERMETS 67-11 M09-81539
COMPARATIVE INVESTIGATION OF THE DRESSING AND SINTERING BEHAVIOR OF A NEW TYPE OF ELECTROLYTIC IRON POWDER 67-12 M09-81990
TERNARY COMPOSITES FOR ELECTRIC CONTACTS 67-12 M09-82211
INFLUENCE OF PARTICLE SIZE ON PROPERTIES OF ALUMINUM POWDERS AND SEMIFINISHED PARTS OF SAP 67-12 M09-82213
SINTERED COMPONENTS OF G12-2 DOUBLE-ACTING VANE PUMPS 67-12 M09-82790
STRUCTURE AND MECHANICAL PROPERTIES OF LOW-PER CENT FE DISPERSION-STRENGTHENED AL-FEAL3 ALLOYS FOR NUCLEAR APPLICATIONS 67-12 M09-82807
EFFECT OF HEAT TREATING CONDITIONS ON THE PROPERTIES OF SINTERED IRON MATERIALS. PT. 1. THE EFFECT OF HARDENING AND CASE-HARDENING TEMPERATURES ON SOME PROPERTIES OF VARIOUS SINTERED IRON MATERIALS 67-12 M09-82840
PRODUCTION OF ALUMINUM AND ALUMINUM ALLOY GRANULES FOR SEMIFINISHED PRODUCTS 67-12 M09-83023
EFFECTS OF NONUNIFORMITY OF OXIDE DISPERSION ON MECHANICAL PROPERTIES OF SINTERED ALUMINUM POWDER ALLOYS AT ROOM AND ELEVATED TEMPERATURES 67-12 M09-83112
INVESTIGATION OF SINTERING AND PROPERTIES OF CHROMIUM-BASE COMPACTS 67-12 M09-83554
SOME PROPERTIES OF IRON POWDER PARTS, ALLOYED WITH 6 PER CENT CR 67-12 M09-83556
ANTIFRICTION IRON-BASE POWDER METALLURGY PARTS FOR HEAVY DUTY PERFORMANCE 67-12 M09-83558
DEFORMATION EFFECTS ON THE CHANGING PROPERTIES OF POROUS MATERIALS 67-12 M09-83562
RECRYSTALLIZATION, GRAIN GROWTH AND THE DUCTILE-BRITTLE TRANSITION IN TUNGSTEN SHEET 67-12 M17-81822
WORK HARDENING OF SAP AL ALLOYS, PLASTICALLY DEFORMED AT ROOM TEMPERATURE 67-12 M17-82814

POWDER METALLURGY PARTS, MICROSTRUCTURE
A METALLOGRAPHIC STUDY OF SINTERED STEEL 67-08 M09-75493
METALLOGRAPHIC RESEARCH INTO SUBSTANCES ON A POWDERED MAGNESIUM BASE 67-10 M13-79740

POWDER METALLURGY PARTS, MOLDS
ECONOMIC EFFICIENCY OF MAKING SHAPING PARTS FOR MOLDS BY POWDER METALLURGY 67-08 M09-74908

POWDER METALLURGY PARTS, NONDESTRUCTIVE TESTING
INDUCTIVE METHOD FOR THE CONTROL OF POWDER COMPOSITE PRODUCTS 67-08 M19-74919

POWDER METALLURGY PARTS, OXIDATION
CORROSION OF COLUMBIUM CARBIDE AT HIGH TEMPERATURE IN THE MEDIUM OF COMMERCIALLY PURE INERT GASES 67-07 M18-73656
OXIDATION RESISTANCE OF WC-NBC-CO ALLOYS IN AIR 67-12 M18-83561

POWDER METALLURGY PARTS, OXIDATION TESTS
PROPERTIES OF ZRB2-TAB2 ALLOYS CONTAINING CR 67-05 M09-68236

POWDER METALLURGY PARTS, PERMEABILITY
GAS PERMEABILITY OF POROUS MATERIALS FROM REFRACTORY COMPOUNDS. PT. 3 67-02 M09-61785

POWDER METALLURGY PARTS, PHYSICAL PROPERTIES
INVESTIGATION OF THE FILTERING PROPERTIES OF BIMETALLIC SINTERED FILTERS 67-02 M09-61705
THE EFFECT OF THE PARTICLE SIZE OF ALUMINUM POWDER ON THE SINTERING OF A CU-AL ALLOY IN THE PRESENCE OF A LIQUID PHASE 67-02 M09-61783
THE SINTERABILITY OF CHROMIUM POWDER 67-02 M09-61784
CHANGES IN THE PROPERTIES OF SINTERED CONTACT MATERIALS 67-04 M09-66267
SOME PHYSICAL PROPERTIES OF NIOBIUM MONOCARBIDE IN THE HOMOGENEITY REGION 67-04 M15-67860
STUDY OF THE PERMEABILITY OF POROUS MATERIALS OF REFRACTORY COMPOUNDS 67-05 M09-68703
SINTERED MATERIALS AND COMPONENTS. PROPERTIES OF MATERIALS PRODUCED BY EXTRUDING AND SINTERING PLASTICIZED POWDER MIXTURES 67-06 M09-70960
COMPACTION OF POROUS MATERIALS DURING PRESSING 67-06 M09-72319
THERMAL AND ELECTRICAL PROPERTIES OF POROUS TUNGSTEN AND TUNGSTEN-MOLYBDENUM CATHODE MATERIALS 67-06 M15-70969
INVESTIGATION OF ZIRCONIUM ANHYDRIDE PACKING DURING HOT PRESSING 67-08 M09-74305
MAKING POROUS PARTS OF CHROMIUM CARBIDE WITH APPLICATION OF VOLATILE FILLERS 67-08 M09-74307
INVESTIGATION OF ULTRAFINE POWDERS OF COPPER AND BRONZE 67-08 M09-74320
ROLL COMPACTING OF ALUMINUM-CLAD SINTERED STRIP 67-08 M09-74915
PROCESS KINETICS OF OIL FILTRATION THROUGH PORES OF ANTIFRICTION POWDER COMPOSITES 67-08 M09-74917
PRODUCING POROUS PARTS OF REFRACTORY OXIDES AND ANALYSIS OF THEIR GAS PERMEABILITY 67-08 M09-75430
FILTERING PROPERTIES OF TWIN-LAYER SINTERED FILTERS 67-08 M09-75850
CHANGE OF COMPACTNESS AND COEFFICIENT OF THE LATERAL STRAIN OF HARD ALLOYS 67-08 M15-75440
EFFECT OF HEAT TREATING ON POWDER METALS 67-09 M09-77494
SOME REGULARITIES GOVERNING THE CHANGE IN THE PROPERTIES OF CONTACT MATERIALS MANUFACTURED BY POWDER METALLURGY TECHNIQUES 67-10 M09-78999
INVESTIGATION OF SINTERING AND PROPERTIES OF POROUS BRIQUETS MADE OF GRANULATED CHROMIUM AND CHROMIUM-BASE POWDERS 67-12 M09-82208
ACTIVATED SINTERING OF TUNGSTEN AND MOLYBDENUM POWDERS 67-12 M09-82209
PERMEABILITY OF POROUS MATERIALS FROM REFRACTORY COMPOUNDS 67-12 M09-82679
POROUS PARTS FROM SINTERED CR-NI STEEL 67-12 M09-83295

POWDER METALLURGY PARTS, PLASTIC DEFORMATION
THE MECHANISM OF DEFORMATION AND RUPTURE OF POROUS IRON 67-02 M17-62128

POWDER METALLURGY PARTS, POROSITY
SOME REGULAR FEATURES IN THE SINTERING OF POROUS PARTS FROM HIGH-MELTING-POINT COMPOUNDS 67-06 M09-70766
SINTERING OF METAL-GLASS COMPOSITES--DEPENDENCE BETWEEN TOTAL POROSITY AND OPEN POROSITY DURING SINTERING OF METAL-GLASS MATERIALS 67-08 M09-75427

POWDER METALLURGY PARTS, PRESSING
PROBLEMS IN THE EXTRUSION OF TUBES FROM A VISCOPLASTIC CHARGE 67-02 M09-62122

POWDER METALLURGY PARTS, QUALITY CONTROL
INVESTIGATION OF POROUS COMPACTS WITH INCOMPLETE CONTACTS BY MEANS OF EDDY CURRENTS 67-06 M09-71467
STUDY OF THE PROPERTIES AND OF THE PROCESS OF SINTERING POWDERED METAL FILTERS USING RESISTOMETRIC METHODS 67-08 M09-75463
STUDY OF POROUS COMPACTS BY THE EDDY CURRENT METHOD 67-12 M09-82788
POWDER METALLURGY PARTS, REACTIONS /CHEMICAL/
A COULOGRAVIMETRIC STUDY OF THE SINTERED SILVER ELECTRODE IN 1 MOLAR POTASSIUM HYDROXIDE 67-05 M14-68615
POWDER METALLURGY PARTS, RECRYSTALLIZATION #METALLURGICAL#
RECRYSTALLIZATION OF TUNGSTEN IN W-NI-FE ALLOYS. PT. 1 67-08 M14-75433
POWDER METALLURGY PARTS, ROLLING
STUDY OF SPECIFIC PRESSURE DURING METAL POWDER ROLLING 67-04 M09-67334
MANUFACTURE OF BRONZE-GRAPHITE STRIPS BY POWDER ROLLING 67-07 M09-72502
ON SOME VERSIONS OF ROLLING METAL POWDERS 67-08 M09-74902
METHODS AND SPECIAL FEATURES OF ROLLING BIMETALLIC STRIPS FROM METAL POWDERS 67-08 M09-74904
EXPERIENCE WITH THE PRODUCTION OF BRONZE-GRAPHITE STRIP BY POWDER ROLLING 67-11 M09-80888
INFLUENCE OF AIR ON THE ROLLING PROCESS OF METAL POWDERS 67-12 M09-83564
POWDER METALLURGY PARTS, SERVICE TIME
PRODUCTION OF CERMET MACHINE PARTS AT THE MOSCOW POWDER METALLURGY PLANT 67-02 M09-61796
NEW TECHNIQUES FOR MAKING FILTERS FROM TIN-PLATED BRONZE FRACTIONS 67-09 M09-76571
POWDER METALLURGY PARTS, SHRINKAGE
INVESTIGATION OF THE SINTERING PROCESS OF METAL-GLASS COMPOSITES 67-04 M09-66254
INVESTIGATION OF SHRINKAGE IN SINTERED CHROMIUM STEEL 67-06 M09-72322
POWDER METALLURGY PARTS, SINTERING
USE OF ENDOTHERMIC GAS FOR SINTERING POWDERED-METAL ARTICLES 67-01 M09-57688
REGULARITIES OF SINTERING OF ZIRCONIUM DIBORIDE-MOLYBDENUM ALLOYS 67-06 M09-70959
POWDER METALLURGY PARTS, SPECTRUM ANALYSIS
POROSITY EFFECT OF A CERMET MATERIAL ON RELATIVE INTENSITY OF CERTAIN ELEMENT SPECTRAL LINES 67-08 M09-74313
POWDER METALLURGY PARTS, STRAIN HARDENING
EFFECT OF PLASTIC DEFORMATION ON THE PHYSICOMECHANICAL PROPERTIES OF TUNGSTEN CARBIDE-COBALT HARD ALLOYS 67-02 M09-61793
POWDER METALLURGY PARTS, STRESSES
EFFECT OF THE STRESS CONDITION PRODUCED IN THE EXTRUSION VOLUME ON THE SHRINKAGE DURING SINTERING. PT. 2. CALCULATION OF THE STRESS CONDITION OF POWDERED-METAL SPECIMENS DURING SINTERING 67-09 M09-76568
POWDER METALLURGY PARTS, SUPERCONDUCTIVITY
PREPARATION OF TIC-WC AND NBC-WC SOLID SOLUTIONS AND INVESTIGATION OF THEIR SUPERCONDUCTIVITY 67-10 M09-79341
POWDER METALLURGY PARTS, SURFACE FINISHING
AUTOMATED DEBURRING SYSTEM SPEEDS PRODUCTION OF POWDER METAL PARTS 67-01 M12-58549
POWDER METALLURGY PARTS, SURFACE PROPERTIES
PROSPECTS FOR MANUFACTURING OF GAS TURBINE SEALS WITH CONSIDERATIONS OF PHYSICAL AND CHEMICAL FACTORS 67-05 M09-69020
POWDER METALLURGY PARTS, TEXTURE
ROLLING TEXTURE OF SINTERED COPPER 67-06 M09-72321
POWDER METALLURGY PARTS, THERMAL PROPERTIES
HEATING OF POROUS BODIES DURING OXIDATION 67-02 M09-61707
STABILITY OF REFRACTORY COMPOUNDS IN FUSED BASALT 67-06 M09-71468
STABILITY OF REFRACTORY COMPOUNDS IN FUSED BASALT 67-12 M09-82789
POWDER METALLURGY PARTS, WEAR
DEVELOPMENT AND INVESTIGATION OF FRICTION CERMETS FOR SHOCK ABSORBERS 67-06 M09-70769
CERMET PARTS OF VANE DOUBLE-ACTING MODEL G12-2 PUMP 67-06 M09-71469
NEW HIGH-EFFICIENCY ELECTRODES--TOOLS FOR SPARK MACHINING MADE OF CERMET CHIPS 67-06 M09-72325
INVESTIGATION OF PHASE AND STRUCTURAL CHANGES IN THE SURFACE LAYERS OF FRICTION PAIR MATERIALS. PT. 1. METALLOGRAPHIC ANALYSIS AT OPTICAL AND SUPEROPTICAL MAGNIFICATIONS 67-06 M17-70768
POWDER COMPOSITE SPINNING AND DOUBLING RINGS 67-08 M09-74916
THE STRUCTURE AND WEAR RESISTANCE OF A NICKEL-FREE POWDERED HARD ALLOY WITH A HIGH MANGANESE CONTENT 67-08 M17-74863
INVESTIGATION OF FRICTIONAL POWDER COMPOSITES FOR OPERATION IN OIL MEDIUM 67-08 M17-74909
THE EFFECT OF CERTAIN ADDITIVES ON THE WEAR RESISTANCE OF FRICTIONAL POWDER COMPOSITES 67-08 M17-74910
SOME CAUSES OF INTENSIVE WEAR OF IRON-GRAPHITE BEARINGS UNDER INCREASED LOADS 67-08 M17-74911
WEAR RESISTANCE OF SINTERED INSERTS FOR BALL PINS OF AN AUTOMOBILE STEERING SYSTEM 67-08 M17-75431
A METAL-PLASTIC ANTIFRICTION MATERIAL FOR THE MANUFACTURE OF COMPOSITE BUSHINGS OPERATING UNDER DRY FRICTION CONDITIONS 67-11 M09-80890
POWDER METALLURGY PARTS, WELDABILITY
CHARACTERISTICS AND NEW TRENDS IN THE PRODUCTION OF SEMI-FINISHED PARTS FROM SINTERED ALUMINUM POWDER 67-02 M09-61627
POWDER METALLURGY PARTS, WELDING
WELDING HEAT-RESISTANT CERMET COPPER-BASE ALLOYS WITH CAST COPPER BY THE DYNAMIC PRESSURE METHOD 67-06 M12-70777
EXPERIENCE IN DIFFUSION WELDING OF CERMETS 67-12 M11-83565
POWDER METALS
SEE METAL POWDERS
POWDER ROLLING
SEE ROLL COMPACTING
POWDER SPRAYING
NEW ON THE FINISHING FRONT--ELECTROSTATIC POWDER SPRAYING 67-04 M12-66157
METAL PIPE FOR MOLTEN ALLOYS 67-07 M18-74040
ELECTROSTATIC SPRAYING OF POWDERS 67-10 M12-79786
METALLIZATION. PT. 9 67-10 M12-79891
POWER
SEE ELECTRIC POWER
THROWING POWER
POWER CABLES
AL CONDUITS 67-04 M20-67704
THE LEAD SHEATH IN GERMAN POWER CABLE PRACTICE 67-09 M20-76608
POWER CABLES, MATERIALS
THE RECENT DEVELOPMENTS OF ALUMINIUM CONDUCTORS IN FRANCE IN PUBLIC DISTRIBUTION AND INDUSTRIAL PLANTS 67-05 M20-68495
POWER CABLES, MECHANICAL PROPERTIES
SERVICE PERFORMANCE OF LEAD SHEATHED CABLES SUBJECT TO THERMAL MOVEMENT 67-09 M17-76607
POWER CABLES, STRUCTURAL MATERIALS
THE DEVELOPMENT OF POWER CABLE MANUFACTURE 67-10 M20-78395
POWER CABLES, WELDING
METHOD AND DEVICE FOR JOINING SECTOR ALUMINUM CABLES AND SINGLE ROUND ALUMINUM CABLES BY THERMIT WELDING 67-06 M11-70376
POWER GAIN
GALLIUM ARSENIDE FETS OUTPERFORM CONVENTIONAL SILICON MOS DEVICES 67-09 M16-76640
POWER GENERATION
SEE ELECTRIC POWER GENERATION
POWER PLANTS
SEE ELECTRIC POWER GENERATION
POWER REACTORS /NUCLEAR/
SEE NUCLEAR POWER REACTORS
POWER SUPPLIES
SEE ALSO ALTERNATORS
ELECTRIC BATTERIES
FUEL CELLS
MAGNETOHYDRODYNAMIC GENERATORS
POWER SUPPLY CIRCUITS
SOLAR GENERATORS
STORAGE BATTERIES
THERMIONIC GENERATORS
THERMOELECTRIC GENERATORS
TURBOGENERATORS
SELECTION OF POWER SOURCES FOR VIBROARC METAL DEPOSITION 67-02 M11-61058
REPORT ON ULTRAHIGH POWER OPERATION OF ELECTRIC

STEEL FURNACES 67-07 M04-73099
ALUMINUM HOT ROLLING LINE HAS ALL-STATIC POWER SUPPLIES 67-08 M07-75702
FEATURES OF SHORT CIRCUITING CO2 ARC WELDING WITH A DUPLEX POWER SOURCE 67-08 M11-75366
APPLICATION AND MAINTENANCE EXPERIENCE WITH THYRISTOR POWDERED ROLLING MILLS 67-10 M07-78615

POWER SUPPLY CIRCUITS
LARGE AREA SILICON JUNCTIONS BY EPITAXIAL GROWTH TECHNIQUE 67-07 M14-73461

POWERHOUSES
SEE ELECTRIC POWER GENERATION

PRASEODYMIUM, ALLOYING ADDITIVE
IRON-COBALT ALLOYS WITH ADDITIONS OF SMALL AMOUNTS OF RARE EARTH ELEMENTS PR, GD OR HO 67-08 M15-75948

PRASEODYMIUM, BINARY SYSTEMS
THE ROOM-TEMPERATURE LATTICE SPACINGS OF SOME INTRA RARE-EARTH BINARY SYSTEMS 67-03 M13-65132
PHASE DIAGRAMS OF THE TH-PR AND TH-ND SYSTEMS 67-06 M14-69991

PRASEODYMIUM, ELECTRICAL PROPERTIES
ELECTRICAL RESISTIVITY OF POLYCRYSTALLINE PRASEODYMIUM BETWEEN 2 AND 325 K 67-06 M15-70798

PRASEODYMIUM, EXTRACTION
ELECTROWINNING HIGH-PURITY NEODYMIUM, PRASEODYMIUM, AND DIDYMIUM METALS FROM THEIR OXIDES 67-07 M03-73196

PRASEODYMIUM, INTERMETALLICS
MAGNETIC PROPERTIES OF PRAL2 67-07 M15-73588
MAGNETIC STRUCTURE OF INTERMETALLIC COMPOUND PRCO2 67-09 M15-77971

PRASEODYMIUM, NUCLEAR PROPERTIES
OBSERVATION OF THE PR141 AND TM169 NUCLEAR MAGNETIC RESONANCES IN THE PARAMAGNETIC STATES OF RARE-EARTH INTERMETALLIC COMPOUNDS 67-11 M16-80406

PRASEODYMIUM, THERMAL PROPERTIES
SPECIFIC HEAT OF LANTHANUM, PRASEODYMIUM, AND SAMARIUM METALS BETWEEN 3 AND 25 K 67-11 M15-81386

PRASEODYMIUM, X RAY ANALYSIS
THE EFFECT OF COLD WORK --FILING-- ON THE X-RAY DIFFRACTION PATTERNS OF SOME RARE-EARTH MEATLS 67-04 M13-66163

PRASEODYMIUM COMPOUNDS, ELECTRICAL PROPERTIES
PHYSICAL PROPERTIES OF SOME RARE-EARTH METAL DICARBIDES 67-04 M15-67099
HIGH-TEMPERATURE STUDY OF PRASEODYMIUM OXIDES BY MEANS OF MEASUREMENTS OF ELECTRICAL CONDUCTIVITY VS PARTIAL EQUILIBRIUM OXYGEN PRESSURE 67-05 M15-69340

PRASEODYMIUM COMPOUNDS, MAGNETIC PROPERTIES
MAGNETIC PROPERTIES OF CE, PR AND ND MONOCHALCOGENIDES AT 4.2 TO 1300 K 67-01 M16-57956

PRASEODYMIUM COMPOUNDS, PHASES /STATE OF MATTER/
STOICHIOMETRY OF PRASEODYMIUM OXIDES 67-09 M13-78016

PRECIOUS METAL COMPOUNDS
SEE ALSO GOLD COMPOUNDS
OSMIUM COMPOUNDS
PALLADIUM COMPOUNDS
RHODIUM COMPOUNDS
RUTHENIUM COMPOUNDS
SILVER COMPOUNDS

PRECIOUS METAL COMPOUNDS, SURFACE PROPERTIES
SURFACE PROPERTIES.. KEY TO CONTACT SELECTION 67-11 M20-80525

PRECIOUS METALS
SEE ALSO GOLD
IRIDIUM
OSMIUM
PALLADIUM
PLATINUM
PLATINUM METALS
RHODIUM
RUTHENIUM
SILVER

PRECIOUS METALS, ALLOYING ADDITIVE
THE EFFECT OF NOBLE METAL ADDITIONS ON THE TOUGHNESS OF IRON-CARBON ALLOYS 67-12 M17-82760

PRECIOUS METALS, ATOMIC PROPERTIES
PSEUDOATOM PHASE SHIFTS FOR MONOVALENT METALS AND ALLOYS. PT. 2. MONOVALENT IMPURITY RESISTIVITIES IN MONOVALENT METALS 67-11 M16-81479

PRECIOUS METALS, ATOMIC STRUCTURE
THE ELECTRONIC STRUCTURES OF TRANSITION AND NOBLE METALS 67-10 M16-78304

PRECIOUS METALS, BAND THEORY
COMBINED INTERPOLATION SCHEME FOR TRANSITION AND NOBLE METALS 67-05 M16-69802

PRECIOUS METALS, COATINGS
DEVELOPMENTS AND TENDENCIES IN PRECIOUS METALS ELECTROPLATING TECHNOLOGY. PT. 7 67-10 M12-79888
PRECIOUS METAL ELECTRODEPOSITS FOR ELECTRICAL CONTACT SERVICE 67-10 M12-79938
ELECTROPLATED METALLIC COATINGS IN THE ELECTRICAL INDUSTRY 67-12 M12-82937

PRECIOUS METALS, CORROSION
FORMATION OF ELEMENTS WITH THE CORROSION OF HOMOGENEOUS MIXED CRYSTALS, AND, ITS EFFECTS 67-08 M18-75060

PRECIOUS METALS, ELECTRICAL PROPERTIES
PSEUDOATOM PHASE SHIFTS FOR MONOVALENT METALS AND ALLOYS. PT. 1. ELECTRICAL RESISTIVITIES AND THERMOELECTRIC POWERS OF THE MONOVALENT LIQUID METALS 67-11 M16-81478

PRECIOUS METALS, EXTRACTION
PILOT PLANT FOR EXTRACTING NOBLE METALS FROM SLIME 67-06 M03-71131
AMINE EXTRACTION OF NOBLE METALS FROM SLURRIES OF NICKEL AND COPPER ELECTROLYSIS 67-06 M03-71304
FLUIDIZED BED ROASTING OF GOLD-ARSENIC CONCENTRATES WITH THE PURPOSE OF DEARSENIZATION 67-11 M03-80752

PRECIOUS METALS, MAGNETIC PROPERTIES
HYPERFINE MAGNETIC FIELDS AT COBALT AND TIN NUCLEI IN DILUTE ALLOYS 67-11 M15-80190

PRECIOUS METALS, PLATING
PROGRESS IN NOBLE METAL PLATING. PT. 5 67-06 M12-71813

PRECIOUS METALS, REACTIONS /CHEMICAL/
THE REACTION OF SOME NOBLE AND TRANSITION METALS WITH REFRACTORY CARBIDES 67-06 M14-70892
NOBLE METALS, MOLYBDENUM AND TUNGSTEN IN HYDROCARBON SYNTHESIS 67-08 M14-76159

PRECIOUS METALS, SOLUBILITY
CARBON SOLUBILITY IN LIQUID METALS OF THE SIXTH PEROID 67-08 M15-74323

PRECIOUS METALS, SURFACE FINISHING
PROGRESS IN NOBLE METAL PLATING. PT. 5 67-06 M12-71813

PRECIOUS METALS, WELDING
NEW MICROPLASMA ARC PROCESS FOR JOINING MICROSIZED PARTS 67-04 M11-66396

PRECIPITATES
RECENT DEVELOPMENTS ON THE ISOLATION OF INCLUSIONS --PRECIPITATES-- IN STEEL 67-01 M14-58261
PRECIPITATES IN DISK-GROWN LASER RUBIES 67-03 M13-65895
BEHAVIORS OF THE PRECIPITATES OF 17-4PH STAINLESS STEEL BY THE ARC WELDING HEAT 67-03 M14-65842
ELECTRON PROBE MICROANALYSIS OF SUBMICROSCOPIC PRECIPITATES IN STAINLESS STEEL 67-04 M19-67274
STRUCTURES AND STRENGTH OF AUSFORMED STEEL 67-06 M13-71085
SURFACE OBSERVATIONS OF PRECIPITATES IN COMMERCIALLY PURE COPPER COMPRESSED AT ELEVATED TEMPERATURES 67-07 M13-72532
THE ORIENTATION AND SHAPE OF THETA PRECIPITATES FORMED IN AN AL-CU ALLOY 67-08 M13-75232
DIFFRACTION CONTRAST AT PLANAR INTERFACES OF LARGE COHERENT PRECIPITATES 67-10 M13-78913
THE FINE STRUCTURE AND PROPERTIES OF TUNGSTEN MONOCRYSTALS 67-10 M13-78965
MICROPROBE INVESTIGATIONS OF COPPER PRECIPITATES IN SILICON SINGLE CRYSTALS 67-10 M13-79011
FINE FAULTS AND CRYSTAL STRUCTURES OF PRECIPITATES IN FE-MO AND FE-W ALLOYS 67-11 M13-80811
THE INFLUENCE OF A SUBGRAIN STRUCTURE ON PRECIPITATION-HARDENING AND NUCLEATION OF PRECIPITATES IN AN AL-ZN-MG ALLOY 67-11 M14-80105
IDENTIFICATION OF STRENGTHENING PRECIPITATES IN 18NI --250-- ALUMINUM, VANADIUM AND TITANIUM MARAGING STEELS 67-12 M13-83068

PRECIPITATES, CHEMICAL ANALYSIS
ELECTRON METALLOGRAPHY OF PRECIPITATES IN IRRADIATED AND UNIRRADIATED STAINLESS STEEL 67-09 M19-76636

PRECIPITATES, CRYSTAL LATTICES
CRYSTALLOGRAPHY OF SIP AND SIAS SINGLE CRYSTALS AND OF SIP PRECIPITATES IN SI 67-03 M13-65872
PRECIPITATES, MICROSCOPY
THE ESTIMATION OF SIZE DISTRIBUTION AND DENSITY OF PRECIPITATES FROM ELECTRON MICROGRAPHS OF THIN FOILS 67-01 M13-58782
PRECIPITATION
SEE ALSO ELECTROSTATIC PRECIPITATION
INTERGRANULAR PRECIPITATION
SEDIMENTATION
CONE-TYPE PRECIPITATORS FOR IMPROVED COPPER RECOVERY 67-01 M03-57936
PRECIPITATION AT SUPERLATTICE DOMAIN BOUNDARIES WITH PARTICULAR REFERENCE TO A COPPER-ALUMINIUM-NICKEL ALLOY 67-01 M14-57477
PRECIPITATION PROCESSES IN ALNICO 67-01 M14-58661
PRECIPITATION OF V2O5 FROM INDUSTRIAL SULFURIC ACID SOLUTIONS 67-02 M03-59196
EFFECT OF SILICA IMPURITIES ON THE ELECTROLYSIS OF MAGNESIUM CHLORIDE AND CARNALLITE 67-02 M03-60567
MORPHOLOGY AND TEXTURE OF CARBONYL MOLYBDENUM AND TUNGSTEN PRECIPITATES 67-02 M13-59930
GOLD IN GLASS 67-02 M14-58917
ELECTRON MICROSCOPE STUDY OF NIOBIUM CONTAMINATED BY INTERSTITIAL ELEMENTS 67-02 M14-58926
ELECTRON MICROSCOPE OBSERVATION OF GAMMA-PHASE PRECIPITATION IN VANADIUM PERMENDUR 67-02 M14-59072
PRECIPITATION OF SULFUR IMPURITIES FROM A NI-C MELT IN THE RECRYSTALLIZATION PERIOD 67-02 M14-59866
DISSOLUTION AND PRECIPITATION OF ALUMINUM NITRIDE IN LOW-ALLOY STEEL 67-02 M14-59944
STRUCTURAL INVESTIGATIONS ON PRECIPITATION AT ROOM AND AT ELEVATED TEMPERATURE. QUANTITATIVE ANALYSIS OF LATTICE DIRECTIONS IN SPHERICAL GUINIER-PRESTON ZONES 67-02 M14-60118
ON THE MECHANISM OF PRECIPITATION IN CU-2 WT PER CENT BE ALLOY 67-02 M14-60157
THE PROCESS OF PRECIPITATION IN CU-BE 25 ALLOY 67-02 M14-60270
A METALLOGRAPHIC STUDY OF PRECIPITATION IN A NI-12.7 AT. PER CENT AL ALLOY 67-02 M14-60642
STRUCTURAL INVESTIGATIONS ON PRECIPITATION IN ALUMINIUM-ZINC-ALLOYS. PT. 1. MODIFICATION OF PRECIPITATION AT ROOM AND AT ELEVATED TEMPERATURES 67-02 M14-60875
PRECIPITATION AND REPLACEMENT IN SOLUTION OF CARBON IN IRON 67-02 M14-61528
EFFECT OF NB, TI AND B ON THE ELEVATED-TEMPERATURE MECHANICAL PROPERTIES OF A CR12W2V STEEL 67-02 M17-60210
NEW WAY TO WIN MOLY 67-03 M02-65115
EFFECT OF TEXTURE, GRAIN SIZE, AND COLD WORK ON THE PRECIPITATION OF ORIENTED HYDRIDES IN ZIRCALOY TUBING AND PLATE 67-03 M14-65849
INTERNAL FRICTION IN 18 PER CENT NI MARAGING STEELS 67-03 M15-65085
METHOD OF MEASURING RATE OF PURE METALS DEPOSITION FROM THE GAS PHASE 67-04 M12-67532
INFLUENCE OF ZIRCALLOY 2 TRANSFORMATION CONDITIONS ON THE STRUCTURE AND MECHANICAL PROPERTIES OF FINISHED AND SEMIFINISHED PRODUCTS 67-04 M14-66043
SOLUBILITY OF NB PRECIPITATES IN AUSTENITE, IN THE CASE OF LOW-CARBON STRUCTURAL STEELS WITH SMALL NB QUANTITIES 67-04 M14-66352
PRE-PRECIPITATION AND PRECIPITATION PHENOMENA IN THE AL-ZN SYSTEM 67-04 M14-66534
THE SHAPE AND MECHANISM OF FORMATION OF M23C6 CARBIDE IN AUSTENITE 67-04 M14-66540
CONDITIONS CONTROLLING MATRIX AND STACKING FAULT PRECIPITATION 67-04 M14-66548
THE EFFECT OF PRECIPITATION OF MNAL6 UPON THE RECRYSTALLIZATION CHARACTERISTICS OF ALUMINUM-MANGANESE ALLOYS 67-04 M14-66947
METALLOGRAPHY AND STRENGTHENING MECHANISMS OF 0.3 PER CENT C AND 0.3 PER CENT C-1.5 PER CENT CU STEELS. PT. 1. METALLOGRAPHY OF A 0.3 PER CENT C AND A 0.3 PER CENT C-1.5 PER CENT CU STEEL IN THE TEMPERED CONDITION 67-04 M14-66990
PRECIPITATION OF NITRIDES IN IRON-MANGANESE-NITROGEN ALLOYS 67-04 M14-67024
DISLOCATION-INDUCED DEVIATION OF PHOSPHORUS-DIFFUSION PROFILES IN SILICON 67-04 M14-67102
PRECIPITATION OF CARBIDES IN ALLOY STEELS 67-04 M14-67546
SOLUBILITY OF GASES IN REFRACTORY METALS AND PRECIPITATION FROM SUPERSATURATED SOLID SOLUTIONS 67-04 M14-67547
A NEW EXCESS PHASE IN CR-MN-NI-TI STEEL 67-04 M14-67977
BRIDGING THE DISCIPLINES 67-05 M03-69140
PRECIPITATION AND AGE HARDENING BEHAVIOR OF CU-NI-AL ALLOYS 67-05 M14-68581
PRECIPITATES IN CU-NI-ZN-SI ALLOYS 67-05 M14-68582
PRECIPITATES INDUCED IN GAAS BY THE INDIFFUSION OF ZINC 67-05 M14-68626
DIRECT OBSERVATION OF CHANGE FROM THETA-PRIME TO THETA PHASE IN PRECIPITATION OF AN AL-CU ALLOY 67-05 M14-68872
ORIGIN AND NATURE OF MICROSTRUCTURES 67-05 M14-68991
INVESTIGATION BY MEANS OF THE ELECTRON MICROSCOPE OF PRECIPITATION IN AL-CU SOLID SOLUTIONS. PT. 1. THE STRUCTURE OF QUENCHED AL-CU SOLID SOLUTION 67-05 M14-69125
PRECIPITATION AND COAGULATION OF INTERMETALLIC PHASES IN MULTICOMPONENT IRON ALLOYS 67-05 M14-69265
NUCLEATION FROM SUPERSATURATED SOLID SOLUTIONS 67-05 M14-69724
INVESTIGATION OF KINETICS OF JOINT PRECIPITATION OF AU, AG AND CU FROM CYANIDE SOLUTIONS 67-06 M03-71301
HYDRIDE HABIT IN ZIRCONIUM AND IN UNSTRESSED AND STRESSED ZIRCALOY-4 67-06 M13-69944
SIZE DISTRIBUTION FUNCTION OF PRECIPITATE CO PARTICLES IN CU-1 PER CENT CO SOLID SOLUTION 67-06 M13-71956
MORPHOLOGY OF CELLULAR PRECIPITATION OF TIN FROM LEAD-TIN BICRYSTALS 67-06 M14-70425
PRECIPITATION OF CRN IN LOW-ALLOY MEDIUM-TENSILE STRENGTH STEEL 67-06 M14-70813
DEFECT CHARACTERIZATION IN THE PRECIPITATION FROM CAO..YB2O3 CRYSTALLINE SOLUTIONS 67-06 M14-71166
ELECTRON MIRROR OBSERVATION OF LITHIUM PRECIPITATION AT SCRATCH-INDUCED DISLOCATIONS IN SILICON 67-06 M16-70994
COPPER PRECIPITATION METHODS AT WEED HEIGHTS 67-07 M03-73093
CONTRIBUTION TO THE ELECTROLYTIC PRECIPITATION OF MANGANESE 67-07 M03-73225
MORPHOLOGY AND TEXTURE OF DEPOSITS OF CARBONYL MOLYBDENUM AND TUNGSTEN 67-07 M13-72585
DISSOLUTION AND PRECIPITATION OF ALUMINIUM NITRIDE IN LOW-ALLOY STEEL 67-07 M14-72599
STRUCTURE OF ACID-RESISTING AUSTENITIC CHROMIUM-NICKEL-MOLYBDENUM STEEL X 5 CRNIMO 17 13 AND STRUCTURAL CHANGES 67-07 M14-73025
ON THE PRECIPITATION OF COPPER IN SILICON CRYSTALS OF DIFFERENT REAL STRUCTURE 67-07 M14-73895
COPPER PRECIPITATION METHODS AT WEED HEIGHTS 67-08 M03-75500
INVESTIGATION OF THE PROPERTIES OF MATERIALS OF COPPER POWDER, PRODUCED BY CEMENTATION FROM CHLORIDE SOLUTIONS 67-08 M09-74308
PRODUCTION OF METALLIC MANGANESE BY ELECTROLYSIS OF A HIGH-PHOSPHORUS MANGANESE ALLOY IN MOLTEN MEDIA 67-08 M13-74482
TRANSMISSION ELECTRON MICROSCOPY STUDIES ON PRECIPITATION IN AL-AG-CU ALLOYS 67-08 M14-75320
INFLUENCE OF THE CARBIDE PHASE ON THE PROPERTIES OF TRANSFORMER STEEL 67-08 M15-74988
THE DISLOCATION MOTION IN ALLOYS WITH COHERENT, ORDERED, STRESSED PRECIPITATES 67-09 M14-76790
RESEARCH INTO THE PROCESSES OF PRECIPITATION IN SUPERPARAMAGNETIC ALLOYS 67-09 M14-76817
CONTRIBUTION TO THE METALLURGY OF STRUCTURAL MODIFICATIONS IN AL-SI ALLOYS 67-09 M14-77008
PRECIPITATION OF PHOSPHORUS, ARSENIC, AND BORON IN THIN SILICON FOILS 67-09 M14-77152
VACANCY CONCENTRATION AND PRECIPITATION IN QUENCHED PURE GOLD AND GOLD-SILVER ALLOYS 67-09 M14-77451
THE PRECIPITATION OF BORON NITRIDE FROM FERROUS MELTS 67-09 M14-77719

THE SOLUBILITY OF CEMENTITE PRECIPITATES IN ALPHA IRON 67-09 M14-77724
THE MARTENSITIC TRANSFORMATION OF IRON PRECIPITATES IN A COPPER MATRIX 67-09 M14-77925
INTERNAL FRICTION OF FE-CO-N AND FE-NI-N ALLOYS 67-09 M14-78203
PRECIPITATION PHENOMENA IN BINARY ZINC ALLOYS 67-09 M14-78286
STRUCTURAL CHANGES AND THEIR EFFECT ON THE CREEP RUPTURE STRENGTH OF CHROMIUM-MOLYBDENUM STEEL 67-09 M17-77196
METHOD OF PRECIPITATING ZINC FROM COMPLEX SOLUTIONS AFTER EXTRACTION OF COPPER 67-10 M03-80052
PRECIPITATION OF MOLYBDENUM AND TUNGSTEN FROM ACID AQUEOUS SOLUTIONS --EXTRACTION WITH TRIBUTYL PHOSPHATE-- 67-10 M03-80074
INVESTIGATION OF 99.0 PER CENT PURE ALUMINUM IN THE AS-CAST CONDITION AND FOLLOWING VARIOUS SLAB ANNEALS 67-10 M14-79385
DECOMPOSITION OF A GERMANIUM SOLID SOLUTION TO ALUMINUM IN AN ALUMINUM ALLOY WITH 4 PER CENT GE 67-10 M14-79913
PLASMA OSCILLATION IN AL-4. 12 PER CENT CU ALLOY 67-10 M16-78720
HYDROGEN EMBRITTLEMENT IN URANIUM 67-10 M17-79590
DISCONTINUOUS PRECIPITATION IN DEFORMED AL-CU ALLOYS 67-11 M13-81600
THE PHENOMENA OF GRAPHITE PRECIPITATION OF CALCIUM GRAPHITE STEEL 67-11 M14-81058
THE PROCESS OF GRAPHITE PRECIPITATION OF CALCIUM GRAPHITE STEEL 67-11 M14-81059
PRECONCENTRATION IN TRACE ANALYSIS 67-11 M19-80139
UTILIZATION OF SPANISH MANGANESE ORES. PT. 2. LABORATORY LEACHING STUDIES 67-12 M02-83586
PRECIPITATION OF COBALT WITH POTASSIUM XANTHATE IN SOLUTIONS WITH A HIGH IRON CONTENT 67-12 M03-82147
PREPARATION OF AMORPHOUS ALUMINUM PRECIPITATES 67-12 M03-83159
ON THE TRANSFORMATION OF TIN INTO A SUBLIMATE BY VACUUM SULFURIZATION 67-12 M03-83318
THE HYDROMETALLURGICAL TREATMENT OF CHLORIDE SUBLIMATES 67-12 M03-83319
A KINETIC STUDY OF COPPER PRECIPITATION ON IRON. 67-12 M12-82584
THE CARBIDE PHASES IN MAR-M200 67-12 M13-82562
X-RAY AND ELECTRON MICROSCOPY STUDY OF PREPRECIPITATION PHENOMENA IN CU-RICH TI ALLOYS 67-12 M13-83151
RELATIONSHIP BETWEEN STRENGTHENING AND PHASE CHANGES IN HIGH-STRENGTH DISPERSION-HARDENING NON-MAGNETIC STEEL 67-12 M14-82156
SEPARATION OF THE INTERMETALLIDE PHASE NI3AL FROM A NI-CR-AL ALLOY 67-12 M14-82169
A KINETIC STUDY OF COPPER PRECIPITATION ON IRON. PT. 2 67-12 M14-82734
THE MOBILITY OF TRITIUM IN SILVER AND ALUMINUM AFTER ION BOMBARDMENT 67-12 M16-82057

PRECIPITATION, ALLOYING EFFECTS
THE EFFECTS OF ADDITIONAL ELEMENTS ON DISCONTINUOUS PRECIPITATION IN COPPER-BERYLLIUM ALLOYS 67-02 M14-59128
THE AGING PHENOMENA AND LATTICE DEFECTS IN ALUMINIUM ALLOYS. PT. 1. INFLUENCE OF FE, SI ON THE PREPRECIPITATION IN AL-ZN ALLOY 67-02 M14-59719
INFLUENCE OF ALLOYING ELEMENTS ON STRUCTURE OF NITRIDED LAYER OF STAINLESS STEEL AND THE MECHANISM OF ITS STRENGTHENING 67-07 M10-74180
EFFECTS OF ALUMINIUM NITRIDE ON THE PROPERTIES OF STEEL 67-08 M14-74736
THE DISSOLUTION, PRECIPITATION AND AGE HARDENING EFFECT OF NIOBIUM IN PLAIN CARBON STEEL. PT. 1 67-09 M14-76797
EFFECTS OF ALUMINIUM NITRIDE ON THE PROPERTIES OF STEEL 67-09 M14-77379
AN ELECTRON-MICROSCOPE STUDY OF NB PRECIPITATES IN LOW CARBON STEELS 67-09 M14-78293
SOLUTION, PRECIPITATION AND HARDENING EFFECT OF NIOBIUM ON UNALLOYED STEEL 67-10 M17-78692

PRECIPITATION, COMPOSITION EFFECTS
ASPECTS OF PRECIPITATION IN AN 18-10 STAINLESS STEEL CONTAINING MOLYBDENUM AND PHOSPHORUS ADDITIONS 67-11 M14-80241

PRECIPITATION, HEATING EFFECTS
STRUCTURAL CHANGES IN HEAT RESISTANT 13CRMO 4 4 AND 10 CRMO 9 10 STEELS AFTER EXTENDED ANNEALING AT 550 TO 780 C 67-09 M14-77087
FORMATION OF TUNGSTEN CARBIDE IN COMMERCIAL LOW-TUNGSTEN TOOL STEELS 67-09 M14-78225

PRECIPITATION, IMPURITY EFFECTS
THE INFLUENCE OF CARBON ON PRECIPITATION OF COPPER IN SILICON SINGLE CRYSTALS 67-12 M14-82004

PRECIPITATION, RADIATION EFFECTS
THE EFFECT OF IRRADIATION TEMPERATURE ON STRENGTH AND MICROSTRUCTURE OF STAINLESS STEEL 67-09 M17-77471
THE EFFECT OF CONCENTRATION UPON HELIUM PRECIPITATION IN IRRADIATED COPPER-BORON ALLOYS 67-10 M13-79589

PRECIPITATION, STRESS EFFECTS
EFFECT OF LONG-TIME STRESS ON CARBIDE COAGULATION IN CARBON STEEL 67-02 M14-58868
ELECTRON MICROSCOPIC INVESTIGATION ON PRECIPITATION PHENOMENA IN AL-ZN ALLOY 67-05 M14-68879

PRECIPITATION, TEMPERATURE EFFECTS
HIGH-TEMPERATURE STRENGTH AND STRUCTURAL CHANGE OF TYPE 316 AUSTENITE STAINLESS STEEL CASTINGS 67-02 M17-59156

PRECIPITATION HARDENING
SEE ALSO ARTIFICIAL AGING /METALLURGICAL/
MARAGING
NATURAL AGING /METALLURGICAL/
SECONDARY HARDENING
EFFECT OF PLASTIC DEFORMATION TEMPERATURE ON THE AGEING KINETICS OF HEAT-RESISTANT AUSTENITIC STEEL WITH CARBIDE STRENGTHENING 67-01 M10-57352
ELECTRON METALLOGRAPHY TECHNIQUES APPLIED TO BODY CENTERED CUBIC METALS AND ALLOYS 67-01 M13-58761
ON THE AGING PHENOMENA AND LATTICE DEFECTS IN ALUMINIUM ALLOYS. --REPORT 2--. INFLUENCE OF CR, MN AND ZR ON THE PREPRECIPITATION IN AL-ZN ALLOYS 67-01 M14-57454
AGING CHARACTERISTICS OF SOME ALUMINUM-ZINC-MAGNESIUM ALLOYS 67-01 M14-57494
THE TWO-STAGE PRECIPITATION OF CARBON FROM FERRITE 67-01 M14-58460
THE REVERSION PHENOMENON IN IRON-NITROGEN ALLOYS 67-01 M14-58746
THE EFFECT OF DEFORMATION ON PRECIPITATION OF THETA PRIME AND THETA IN AL-4 PER CENT CU 67-01 M17-57937
CHARACTERISTICS OF PRECIPITATION IN COPPER-ZIRCONIUM ALLOYS CONTAINING FROM 0.003-0..26 PER CENT ZR 67-01 M20-58370
DEVELOPMENT TRENDS IN METALLIC MATERIALS 67-02 M01-60203
HEAT TREATMENT OF HARDENING STAINLESS STEELS 67-02 M10-58986
THE INFLUENCE OF SMALL ADDITIONS OF SILVER ON THE AGEING OF ALUMINIUM ALLOYS.. OBSERVATIONS ON AL-CU-MG ALLOYS 67-02 M10-61842
SOLUTE-VACANCY INTERACTION ENERGIES AND THE EFFECT OF 0.009 AT. PER CENT MG ON THE AGING KINETICS OF AN A1-4.01 AT. PER CENT ZN ALLOY 67-02 M14-58945
ON THE MODULATED STRUCTURE OF AGED NI-AL ALLOYS 67-02 M14-58959
THE KINETICS OF AGING REACTIONS IN 18 PER CENT NI MARAGING STEELS 67-02 M14-59425
INVESTIGATION OF THE AGING KINETICS OF V95TS ALLOY OF THE AL-ZN-MG SYSTEM 67-02 M14-59762
STABILIZATION OF REVERSE MARTENSITIC TRANSFORMATION UNDER THE EFFECT OF INTERNAL PRECIPITATION HARDENING 67-02 M14-59856
CHARACTERISTICS OF STRUCTURAL RECRYSTALLIZATION OF STEEL DURING HEATING 67-02 M14-59935
STRUCTURAL INVESTIGATIONS ON PRECIPITATION AT ROOM AND AT ELEVATED TEMPERATURE. QUANTITATIVE ANALYSIS OF LATTICE DIRECTIONS IN SPHERICAL GUINIER-PRESTON ZONES 67-02 M14-60118
THE PROCESS OF PRECIPITATION IN CU-BE 25 ALLOY 67-02 M14-60270
THE AGING OF AL-3.5 PER CENT CU ALLOY UNDER THE CYCLIC LOADS 67-02 M14-60664
ELECTRON MICROSCOPICAL INVESTIGATIONS ON THE AGE HARDENING OF SPRING ALLOYS BASED ON CONICRFE 67-02 M14-60879
STRENGTHENING OF AGEING FE-NI-TI ALLOYS IN THE PROCESS OF THE DIRECT AND REVERSE GAMMA-ALPHA-GAMMA TRANSFORMATION 67-02 M14-61171
AGE-HARDENING BEHAVIOUR IN A 5 PER CENT TIN BRONZE CONTAINING TITANIUM 67-02 M14-61845

NATURE OF STRUCTURAL CHANGES IN THE INITIAL STAGES OF DECOMPOSITION OF SUPERSATURATED SOLID SOLUTION OF TITANIUM IN COBALT 67-02 M14-62081
STRUCTURAL INVESTIGATION OF AGING ATSM AND V92 ALLOYS 67-02 M14-62085
STRAIN-AGING IN TANTALUM 67-02 M17-58954
THE INFLUENCE OF AGING ON THE HARDENING OF PURE ALUMINUM QUENCHED TO LOW TEMPERATURE 67-02 M17-59014
CHARACTERISTICS OF AGING OF AL-ZN-MG ALLOYS 67-02 M17-59764
ON THE AGE HARDENING OF MN-CR AUSTENITE NONMAGNETIC STEELS CONTAINING VANADIUM 67-02 M17-59980
INCREASE IN THE HIGH-TEMPERATURE STRENGTH OF IRON-NICKEL ALLOY BY PHASE HARDENING 67-02 M17-60300
EFFECT OF PLASTIC DEFORMATION AND PRECIPITATION HARDENING ON INTERNAL FRICTION PARAMETERS OF FE-MN AND FE-NI AUSTENITIC ALLOYS 67-02 M17-62088
DEFORMATION TWINNING IN AGED CU-4 PER CENT TI ALLOY 67-03 M13-65641
THE COARSENING OF GAMMA PRIME IN NI-AL ALLOYS 67-03 M14-65389
MECHANICAL PROPERTIES OF VANADIUM-CARBON ALLOYS 67-03 M17-65128
STRUCTURAL CHANGES OCCURING DURING THERMOMECHANICAL TREATMENT OF STEEL AND THEIR INFLUENCE ON THE MECHANICAL PROPERTIES 67-04 M08-67953
PRECIPITATION IN AUSTENITIC STAINLESS STEELS CONTAINING TANTALUM 67-04 M10-67194
DEVELOPMENT OF HIGH-STRENGTH, CORROSION RESISTANT 13 PER CENT CR STEELS PARTICULARLY FOR TURBINE WHEELS 67-04 M10-67207
PRECIPITATION HARDENING IN BCC BINARY ALLOYS. PROGRESS REPORT TO MARCH 1966 67-04 M10-68160
PHYSICAL AND CHEMICAL ANALYSES OF PROCESSES OF AGING AND GROWTH OF AUSTENITE GRAINS IN CAST STEEL 67-04 M14-66959
PRECIPITATION EFFECTS IN AUSTENITIC STAINLESS STEELS CONTAINING TITANIUM AND ALUMINIUM ADDITIONS 67-04 M14-66993
PRECIPITATION DURING AGING AT 700 C. OF A COMMERCIAL AUSTENITIC STEEL CONTAINING TITANIUM AND ALUMINIUM 67-04 M14-67020
DIRECT OBSERVATION OF STRESS ASSOCIATED WITH NITRIDIC PRECIPITATION IN IRON 67-04 M14-67021
EFFECT OF CADMIUM ADDITIVES ON THE ARTIFICIAL AGING OF SOME ALUMINUM ALLOYS 67-04 M14-67147
BEHAVIOR OF CHANGES OF PRECIPITATE OF NI-BASE HEAT RESISTING NO. 648C ALLOY 67-04 M14-67567
PRECIPITATION IN COPPER-HAFNIUM ALLOYS 67-04 M14-67569
STRENGTHENING OF AUSTENITE DURING DIRECT AND REVERSE MARTENSITIC TRANSFORMATION 67-04 M14-67938
INFLUENCE OF BORON ON STRUCTURE AND PROPERTIES OF KH16N25M2V5 STAINLESS STEEL 67-04 M17-66090
COMBINED INFLUENCE OF PLASTIC DEFORMATION AND AGING ON STRUCTURE AND PROPERTIES OF TS6 TITANIUM ALLOY 67-04 M17-66487
HARDENING BY STACKING FAULT PRECIPITATION IN AN 18CR-12NI-NB AUSTENITIC STEEL 67-04 M17-67190
NIOBIUM CARBIDE PRECIPITATION IN STEEL 67-04 M17-67196
THE MECHANISM OF RADIATION-HARDENING OF FCC METALS BY FAST NEUTRONS 67-04 M17-67313
STUDY OF THE EFFECT OF PLASTIC DEFORMATION DURING INTERMITTENT AGING ON THE STRUCTURE AND PROPERTIES OF AN ALUMINUM-MAGNESIUM ALLOY 67-04 M17-67385
PRECIPITATION HARDENING IN IRON-MOLYBDENUM ALLOY 67-04 M17-67550
STRENGTHENING OF KH18N22V2T2 STEEL BY AGING AT 600-750 C 67-04 M17-67979
COMPOSITION AND PROPERTIES OF ALLOYED ALUMINUM WIRE FOR ELECTRIC CONDUCTORS 67-04 M17-68029
AGEING KINETICS OF ALLOYS OF THE SYSTEM AL-SI-CU-MG WITH MODIFYING ADDITIONS 67-05 M10-68834
X-RAY STUDY OF PRECIPITATION HARDENING AND AGING OF N27T2 ALLOY 67-05 M10-69646
THE FERRITE STRENGTHENING MECHANISM ON THE HEATING OF A CAST CARBON STEEL INOCULATED WITH ALUMINIUM 67-05 M14-68251
PRECIPITATION AND AGE HARDENING BEHAVIOR OF CU-NI-AL ALLOYS 67-05 M14-68581
INVESTIGATION OF THE AGING KINETICS OF AN ALLOY IN THE AL-ZN-MG SYSTEM 67-05 M14-69248
PRECIPITATION AND COAGULATION OF INTERMETALLIC PHASES IN MULTICOMPONENT IRON ALLOYS 67-05 M14-69265
HARDENING BY ORDERED PRECIPITATES 67-05 M14-69471
STRUCTURAL TRANSFORMATIONS IN TYPE NI4MO ALLOYS 67-05 M14-69697
EFFECT OF AGING ON THE PROPERTIES OF MARTENSITE OBTAINED FROM STRAINED AUSTENITE 67-05 M17-69671
THE EFFECT OF TWO-STEP SOLUTION TREATMENT ON THE CREEP RUPTURE PROPERTIES OF A HIGH-CARBON 18CR-12NI STAINLESS STEEL 67-05 M17-69858
ON THE CHANGE OF INTERNAL FRICTION DURING THE HIGH-TEMPERATURE AGING OF CU-FE ALLOYS 67-05 M17-69859
A NICKEL-BASE ALLOY HARDENED DURING THE PRECIPITATION OF A PHASE WITH A RHOMBIC LATTICE 67-06 M10-70925
WORK HARDENING OF AUSTENITIC ALLOYS BY PHASE AND DISPERSION HARDENING 67-06 M10-71125
COMBINED HEAT AND MECHANICAL TREATMENT OF VT14 ALLOY FORGINGS 67-06 M10-71357
AGING IN NIOBIUM-RICH NIOBIUM-HAFNIUM-CARBON ALLOYS 67-06 M10-71411
METALLOGRAPHY OF THE 475 C. EMBRITTLEMENT IN AN IRON-30 PER CENT CHROMIUM ALLOY 67-06 M13-71080
CONTRIBUTION OF TRANSMISSION ELECTRON MICROSCOPY FOR THE STUDY OF ALLOYS 67-06 M13-71569
THE REASONS WHY SMALL AMOUNTS OF VANADIUM STRENGTHEN RAIL STEEL 67-06 M14-70099
EFFECT OF HEAT TREATMENT CONDITIONS ON THE LATTICE PARAMETER OF THE SEPARATED PHASE OF NI-CR-TI-AL ALLOYS 67-06 M14-70165
THE INVESTIGATION OF THE PRECIPITATION BEHAVIOR IN HIGH-STRENGTH MARTENSITE-AGE-HARDENING NICKEL STEELS 67-06 M14-70261
EFFECT OF PRECIPITATION HARDENING PHASE ON PRIMARY RECRYSTALLIZATION OF EI437B ALLOY 67-06 M14-70287
THE MECHANISM OF HARDENING IN QUENCHED ALUMINUM 67-06 M14-70417
PRECIPITATION FROM COLD-WORKED STRUCTURES 67-06 M14-70439
IMPROVEMENT OF HEAT-RESISTING COBALT-BASE ALLOYS BY PRECIPITATION HARDENING 67-06 M14-70597
WORK HARDENING AND AGE HARDENING OF NICKEL CONTAINING 12 AT. PER CENT SILICON 67-06 M14-71663
INVESTIGATION BY MEANS OF THE ELECTRON MICROSCOPE OF PRECIPITATION IN AL-CU SOLID SOLUTIONS. PT. 3. THE DIAGRAM FOR THE FORMATION OF NUCLEI IN AL-CU ALLOYS 67-06 M14-71835
INVESTIGATION BY MEANS OF THE ELECTRON MICROSCOPE OF PRECIPITATION IN AL-CU SOLID SOLUTIONS. PT. 4. PRECIPITATION IN DEFORMED AL PLUS 1.3 AT. PER CENT --3 WT. PER CENT -- CU-SOLID SOLUTIONS 67-06 M14-71836
THE FORMATION OF COHERENT ORDERED PRECIPITATES IN NI-CR-AL-ALLOY 67-06 M14-71857
PRECIPITATION HARDENING IN STEEL 67-06 M14-71936
INVESTIGATION BY MEANS OF THE ELECTRON MICROSCOPE OF PRECIPITATION IN AL-CU SOLID SOLUTIONS. PT. 2. THE FORMATION OF THETA DOUBLE PRIME, THETA AND THETA PRIME PHASES IN AL-CU SOLID SOLUTIONS 67-06 M14-71987
COMMENTS ON THE INFLUENCE OF PLASTIC STRAIN ON AGING KINETICS 67-06 M14-72237
PRECIPITATION-HARDENING BEHAVIOR AND MECHANICAL PROPERTIES OF HEAT-RESISTING ALLOYS CONTAINING UP TO 35 PER CENT COBALT 67-06 M17-70599
EFFECT OF COLUMBIUM ON THE PROPERTIES OF WELDABLE PLAIN CARBON STRUCTURAL STEELS 67-06 M17-71437
STRENGTHENING OF SAPPHIRE BY PRECIPITATES CONTAINING TITANIUM 67-07 M10-72829
AGE-HARDENING OF CU-4 PER CENT TI ALLOY DUE TO MODULATED STRUCTURE 67-07 M14-72411
AN INVESTIGATION ON THE AGING BEHAVIOR AND PRECIPITATE IN 17-7 PH STAINLESS STEEL --STUDY OF 17-7 PH STAINLESS STEEL. PT. 10.-- 67-07 M14-72530
FEATURES OF THE STRUCTURAL RECRYSTALLIZATION OF STEEL ON HEATING 67-07 M14-72590

SOME ELECTRON MICROSCOPE OBSERVATIONS ON PRECIPITATION IN BERYLLIUM 67-07 M14-73741
STRUCTURAL TRANSFORMATIONS IN NI4MO-TYPE ALLOYS 67-07 M14-74083
THE EFFECT OF ALFEBE4 ON MECHANICAL PROPERTIES OF FABRICATED POLYCRYSTALLINE BERYLLIUM 67-07 M17-73745
EFFECT OF REST BEFORE ARTIFICIAL AGING ON THE STRUCTURE OF AL-ZN-MG ALLOYS 67-08 M10-75261
AGING BEHAVIOR OF 5 PER CENT NICKEL-2 PER CENT ALUMINIUM AGE HARDENING STEELS 67-08 M10-75759
THEORY OF STRENGTHENING OF METALS 67-08 M14-74686
THE EFFECTS OF QUENCH AGING, STRAIN AGING, AND SUBSTRUCTURE ON THE TENSILE PROPERTIES OF 1020 STEEL 67-08 M17-76144
X-RAY DIFFRACTION ON POLYCRYSTALLINE COMPACT SPECIMENS--THE PROCESS OF NITRIDE PRECIPITATION IN CR-NI STEELS 67-09 M10-76704
EFFECT OF PRECIPITATION ON STRENGTHENING OF EI702 ALLOY 67-09 M10-77287
AGING OF NONANNEALED AND HOT DEFORMED CAST CARBON STEEL 67-09 M10-77408
A COMPARISON OF THE EFFECTS OF COLD WORK BY ROLLING AND BY SHOCK WAVES ON PRECIPITATION HARDENING IN AL-6 PER CENT CU ALLOY 67-09 M10-77735
METALLOGRAPHIC STUDIES ON THE EFFECT OF MOLYBDENUM ON THE PRECIPITATION BEHAVIOR OF NICKEL-CHROMIUM AND NICKEL-CHROMIUM-COBALT ALLOYS WITH HIGH STRENGTH AT ELEVATED TEMPERATURES 67-09 M10-77850
ELECTRON-MICROSCOPIC INVESTIGATION OF PRECIPITATION FROM DEFORMED ALUMINUM ALLOYS 67-09 M10-78181
PHASE ANALYSIS OF EP164 AND E1725 STEELS AND EI893 ALLOY 67-09 M13-76966
MICROSTRUCTURE AND MECHANICAL PROPERTIES OF IRON-NICKEL BASE ALLOYS CONTAINING 9 AT. PER CENT COPPER AFTER VARIOUS HEAT TREATMENTS 67-09 M14-76789
KINETICS OF THE HARDENING AND WEAKENING OF HIGH-TEMPERATURE ALLOYS STUDIED TO SELECT THE TEMPERATURE RANGE FOR HOT PLASTIC DEFORMATION AND HEAT TREATMENT 67-09 M14-77051
INVESTIGATIONS ON THE DEFORMATION AGE HARDENING OF NITROGEN CONTAINING PURE IRON BY MEASURING THE DAMPING CAPACITY AND STRENGTH 67-09 M14-77350
MICROPLASTICITY IN A CU 1.9 WT PER CENT BE PRECIPITATION-HARDENING ALLOY 67-09 M17-77729
EFFECT OF THE STABILIZATION RATIO ON THE CREEP AND PRECIPITATION BEHAVIOR OF AUSTENITIC STEELS WITH ABOUT 16 PER CENT CR, 13TO 16 PER CENT NI, 2 PER CENT MO AND NB 67-09 M17-77847
HIGH-STRENGTH STEELS. PT. 1 67-10 M01-78853
INFLUENCE OF AGE HARDENING PHENOMENA ON THE FLOW CURVE 67-10 M10-78709
HEAT TREATING NICKEL-BASE SUPERALLOYS 67-10 M10-78759
SOME INVESTIGATIONS OF THE AGE HARDENING OF A WROUGHT ALMGSI TYPE ALLOY IN THE UNSTRETCHED AND STRETCHED CONDITION 67-10 M10-79086
THE PRECIPITATION IN ALUMINUM-ZINC-MAGNESIUM ALLOYS 67-10 M10-79147
OBSERVATIONS OF PRECIPITATION HARDENING DURING HIGH-TEMPERATURE POLYMORPHOUS TRANSFORMATION 67-10 M10-79225
THE AGE-HARDENING OF AL-AG-CU ALLOYS 67-10 M10-79384
CARBIDE PRECIPITATION IN WEAKLY-ALLOYED NI-CR-MO STEEL 67-10 M13-79586
THE BASIC PROCESSES AFFECTING TWO-STEP AGING IN AN AL-MG-SI ALLOY 67-10 M14-78908
HARDENING MECHANISMS IN A PRECIPITATION HARDENABLE NICKEL-12.71 AT. PER CENT ALUMINIUM ALLOY 67-10 M14-78911
INVESTIGATIONS ON TEMPERED STEELS. PT. 3 67-10 M14-79485
NATURAL AGING KINETICS OF AL-CU AND AL-CU-MG ALLOYS 67-10 M14-79914
EFFECT OF AGING ON THE TENSILE PROPERTIES OF ALLOY 7039 GTA WELDS AT LOW TEMPERATURES 67-10 M17-78488
MECHANICAL PROPERTIES OF NI-CR-TI-AL ALLOY --NIMONIC TYPE-- SINGLE CRYSTALS IN VARIOUS ALLOY STRUCTURAL STATES 67-10 M17-79230
DIRECT OBSERVATION OF PRECIPITATION IN A CU-2.3 PER CENT FE 67-11 M10-80949
THE AGING BEHAVIOR OF PB-SB ALLOYS AT AMBIENT TEMPERATURE 67-11 M10-81030
QUENCH-AGING AT 240 C. IN A LOW-CARBON STEEL AFTER RAPID ANNEALING 67-11 M10-81143
STUDY OF THE EFFECT OF AGING AND DEFORMATION ON THE DISLOCATION STRUCTURE OF AUSTENITIC STEELS 67-11 M13-81429
PRECIPITATION IN ALUMINUM-GOLD 67-11 M13-81589
ELECTRON MICROSCOPIC INVESTIGATIONS OF PRECIPITATION IN AGE HARDENABLE SILVER-COPPER ALLOYS 67-11 M14-80376
INFLUENCE OF CONCENTRATION OF ALLOYING COMPONENTS IN AL-ZN-MG ALLOYS ON THE GUINIER-PRESTON ZONE COMPOSITION 67-11 M14-80746
ORDERING IN DILUTE SOLID SOLUTIONS OF ALUMINUM IN NICKEL 67-11 M14-81355
RADIOGRAPHIC EXAMINATION OF CREEP AND ANNEALING SPECIMENS OF STEEL 10 CRMO 9 10 67-11 M14-81377
HIGH STRENGTH STAINLESS STEELS 67-12 M10-81773
A DYNAMIC THEORY OF COHERENT PRECIPITATION HARDENING WITH APPLICATION TO NICKEL-BASE-SUPER-ALLOYS 67-12 M10-82720
THE HEAT TREATMENT OF STEELS 67-12 M10-82926
TRANSIENT SOFTENING DURING AGING OF SOME ALUMINUM-BASED SOLID SOLUTIONS 67-12 M10-82977
PRECIPITATION STRENGTHENING OF FE-6 AT . PER CENT MO 67-12 M10-83052
STRENGTHENING OF ANNEALED CUPRONICKELS BY CHROMIUM 67-12 M10-83057
EXAMINATION OF THE INFLUENCE EXERTED BY THE CONCENTRATION OF VACANCIES ON THE KINETICS OF AGE-HARDENING ALZNMG ALLOY 67-12 M10-83350
THE PART PLAYED BY PRECIPITATION HARDENING IN THE HARDNESS OF MARTENSITE PRODUCED BY QUENCHING AUSTENITE 67-12 M10-83462
STRUCTURAL CHANGES IN AL-MG AND AL-MG-ZN ALLOYS DURING AGEING AND THEIR EFFECT ON THE MECHANICAL PROPERTIES OF THE ALLOYS 67-12 M13-82118
STRUCTURAL CHANGES DURING CREEP OF AN AUSTENITIC ALLOY 67-12 M13-82347
AGING OF FE-NI-TI ALLOYS IN THE PROCESS OF REVERSE ALPHA-TO-GAMMA MARTENSITIC TRANSFORMATION 67-12 M14-82334
STUDY OF CARBIDE TRANSFORMATIONS DURING HEAT RESISTANCE TESTING OF 12KH1MF AND 15KH1M1F STEELS 67-12 M14-82345
THE PRECIPITATION BEHAVIOR OF AUTENITIC CR-NI STEELS ALLOYED WITH NITROGEN 67-12 M14-82557
THE PRECIPITATION HARDENING OF A CU-NI-SN ALLOY 67-12 M14-83146
EFFECT OF PRECIPITATION ON THE SUPERCONDUCTING PROPERTIES OF AN AL-15 AT . PER CENT ZN ALLOY 67-12 M16-82867
INTERGRANULAR FAILURE OF PRECIPITATION-HARDENED ALUMINUM ALLOYS 67-12 M17-83527

PRECIPITATION HARDENING, ALLOYING EFFECTS
AGE-HARDENING CU-NI-SN BRONZES. PT. 9. THE DEVELOPMENT OF COMPLEX, ECONOMICAL ALLOYING POWDERS 67-01 M14-58627
THE EFFECTS OF ADDITIONAL ELEMENTS ON DISCONTINUOUS PRECIPITATION IN COPPER-BERYLLIUM ALLOYS 67-02 M14-59128
THE EFFECT OF ARSENIC ON THE AGE-HARDENING OF LEAD-ANTIMONY ALLOYS 67-02 M14-60230
EFFECT OF TITANIUM ON NI-AL AGE HARDENING STEELS 67-04 M14-67563
ON THE HIGH TEMPERATURE PROPERTIES AND THE MICROSTRUCTURES OF HIGH MANGANESE HEAT RESISTING 10M6N TYPE ALLOY 67-04 M17-67566
THE SOLUBILITY OF AU IN AL AND THE PRECIPITATION HARDENING OF AL-AU ALLOYS 67-07 M10-73848
EFFECT OF BORON AND CERIUM ON THE NATURE OF BOUNDARY DISTRIBUTION OF EXCESS CARBIDES IN COMPOSITE-ALLOYED NICKEL ALLOYS ZHS 67-08 M14-75265
AGING CHARACTERISTICS OF SOME ALUMINIUM-ZINC-MAGNESIUM ALLOYS 67-09 M10-78136
EFFECTS OF 0.25 PER CENT SILICON ON PRECIPITATION PROCESSES IN AN ALUMINUM-2.5 PER CENT COPPER-1.2 PER CENT MAGNESIUM ALLOY 67-09 M14-76677
THE DISSOLUTION, PRECIPITATION AND AGE HARDENING EFFECT OF NIOBIUM IN PLAIN CARBON STEEL. PT. 1 67-09 M14-76797
INFLUENCE OF ADDITIONAL ELEMENTS ON THE FORMATION OF GP ZONES IN AL-ZN-MG ALLOYS 67-09 M14-78239

PRECIPITATION HARDENING

INFLUENCE OF ADDITIONAL ELEMENTS ON THE PRECIPITATION OF AL-ZN-MG ALLOYS 67-09 M14-78240
EFFECTS OF IRON AND MOLYBDENUM ON THE HIGH-TEMPERATURE PROPERTIES OF CHROMIUM BASE ALLOYS 67-09 M17-78238
IMPROVEMENT OF AGE HARDENING QUALITIES OF JEWELRY SILVER BY ZN ADDITIVES 67-10 M10-79077
THE EFFECTS OF ADDITIONS OF CHEMICALLY PURE ELEMENTS ON PRECIPITATION OF AGE-HARDENABLE AL-ZN-MG ALLOYS 67-12 M10-83108

PRECIPITATION HARDENING, COMPOSITION EFFECTS
YIELD STRESS AND OTHER TENSILE PROPERTIES OF NITROGEN OR CARBON CHARGED PURE IRON 67-01 M17-58748
EFFECT OF COMPOSITION ON AGING OF SILICOMANGANESE BRONZE 67-04 M14-66498

PRECIPITATION HARDENING, COOLING EFFECTS
EFFECTS OF THE RATE AT WHICH KHN77TYUR --EI437B-- ALLOY IS COOLED FROM THE HOMOGENIZATION TEMPERATURE ON ITS STRUCTURE AND PROPERTIES 67-09 M17-77060

PRECIPITATION HARDENING, HEATING EFFECTS
PRECIPITATION PROCESSES IN A COMMERCIAL COPPER-NICKEL-SILICON ALLOY 67-02 M14-61886
EFFECT OF HEAT TREATMENT ON NI-AL AGE HARDENING STEELS 67-06 M14-71739

PRECIPITATION HARDENING, STRESS EFFECTS
AGING CHARACTERISTICS AND EFFECTS OF PLASTIC DEFORMATION ON PRECIPITATION IN AL-4 PER CENT CU AND AL-20 PER CENT AG ALLOYS WITH OR WITHOUT TRACE ELEMENTS 67-05 M14-68880
STRESS-ORIENTING OF FE16N2 PRECIPITATES IN AN FE-N ALLOY 67-08 M14-75977

PRECIPITATION HARDENING, TEMPERATURE EFFECTS
DYNAMIC STRAIN AGING OF ALPHA-BRASS 67-02 M14-61891

PRECIPITATION HARDENING, WELDING EFFECTS
DISCUSSION ON CORRELATION OF NI-CR-FE ALLOY WELD METAL FISSURING WITH HOT DUCTILITY BEHAVIOR 67-06 M17-70137

PRECIPITATION HARDENING ALLOYS
SEE ALSO PRECIPITATION HARDENING STEELS
STUDY ON COPPER-RICH COPPER-HAFNIUM ALLOYS 67-02 M01-59984

PRECIPITATION HARDENING ALLOYS, CRYSTAL LATTICES
DEFORMATION TWINNING IN AGED CU-4 PER CENT TI ALLOY 67-03 M13-65641

PRECIPITATION HARDENING ALLOYS, FORGING
CONTROLLING VARIATIONS IN MECHANICAL PROPERTIES OF HEAT RESISTANT ALLOYS DURING FORGING 67-06 M07-70131

PRECIPITATION HARDENING ALLOYS, HEAT TREATMENT
ON REVERSION PHENOMENA OF CU-CR ALLOYS 67-02 M14-59985
ON THE MECHANISM OF PRECIPITATION IN CU-2 WT PER CENT BE ALLOY 67-02 M14-60157
OPTIMIZING HEAT TREATMENTS FOR PRECIPITATION HARDENING SUPERALLOYS 67-05 M10-68676

PRECIPITATION HARDENING ALLOYS, MECHANICAL PROPERTIES
THE TENSILE DEFORMATION BEHAVIOR OF AN ALUMINIUM-MAGNESIUM ALLOY 67-02 M17-58965
THE TENSILE DEFORMATION OF OVERAGED COPPER-1.8 WT. PER CENT BERYLLIUM SINGLE CRYSTALS 67-06 M17-72230

PRECIPITATION HARDENING ALLOYS, METAL WORKING
ON THE WARM WORKING OF LIGHT METALS. PT. 1 67-05 M07-68863
SUBSTRUCTURAL STRENGTHENING OF A PRECIPITATION HARDENED MOLYBDENUM ALLOY 67-06 M14-72221

PRECIPITATION HARDENING ALLOYS, MICROSTRUCTURE
MICROSTRUCTURE OF PRECIPITATION STRENGTHENED NICKEL-BASE SUPERALLOYS 67-02 M13-61103
THE AGING PHENOMENA AND LATTICE DEFECTS IN ALUMINIUM ALLOYS. PT. 1. INFLUENCE OF FE, SI ON THE PREPRECIPITATION IN AL-ZN ALLOY 67-02 M14-59719
THE COARSENING OF GAMMA PRIME IN NI-AL ALLOYS 67-03 M14-65389
EFFECT OF HYDROSTATIC PRESSURE ON GAMMA PRIME PRECIPITATION IN RENE 41 67-06 M14-71617

PRECIPITATION HARDENING ALLOYS, PHASE TRANSFORMATIONS
PRECIPITATION HARDENING IN NI-BASE HIGH-TEMPERATURE ALLOYS 67-02 M14-61898
THE MECHANISM OF STRUCTURE TRANSFORMATIONS IN SUPERSATURATED AL-ZN ALLOYS 67-06 M14-70409

PRECIPITATION HARDENING ALLOYS, PHASES #STATE OF MATTER#
INVESTIGATIONS OF THE KINETICS OF SOLUTION OF PRECIPITATES IN A BINARY ALCU-ALLOY AND THE EFFECT OF ADDITIONS OF MAGNESIUM, MANGANESE, SILICON, ZINC AND IRON 67-01 M14-58223

PRECIPITATION HARDENING ALLOYS, SPECIFICATIONS
SYLVANIA MT-104 --HIGH TEMPERATURE MOLYBDENUM ALLOY-- 67-04 M01-67300

PRECIPITATION HARDENING STEELS
SEE ALSO MARAGING STEELS
UDIMAR B-250 --HIGH STRENGTH MARAGING STEEL-- 67-04 M01-68067
NEW STEELS AND THEIR APPLICATIONS 67-06 M20-72010

PRECIPITATION HARDENING STEELS, CHEMICAL ANALYSIS
A STUDY OF PRECIPITATION IN STAINLESS AND MARAGING STEELS USING THE MOSSBAUER EFFECT 67-01 M14-58463

PRECIPITATION HARDENING STEELS, CORROSION
HYDROGEN-STRESS RELATIONSHIPS 67-06 M18-72335

PRECIPITATION HARDENING STEELS, CRYOGENIC PROPERTIES
AN AGE-HARDENABLE, LOW-EXPANSION ALLOY FOR CRYOGENIC SERVICE 67-09 M01-77821

PRECIPITATION HARDENING STEELS, FORMING
JET-AGE JOBS FOR FORM ROLLING 67-05 M08-68307

PRECIPITATION HARDENING STEELS, HEAT TREATMENT
HIGH STRENGTH STEELS. PT. 3 67-03 M10-65835
HEAT TREATMENT OF INVESTMENT-CAST STAINLESS STEELS AND HIGH TEMPERATURE ALLOYS 67-05 M10-69889
PROCESSING PRECIPITATION HARDENING GRADES 67-10 M10-79760

PRECIPITATION HARDENING STEELS, MECHANICAL PROPERTIES
MECHANICAL AND ELECTRON-MICROSCOPE INVESTIGATION OF TEMPERING PROCESSES IN V-CONTAINING AND V-FREE HARDENABLE STRUCTURAL STEELS 67-02 M17-59624
THE RESISTANCE TO THERMAL SHOCK OF AUSTENITIC AND FERRITIC STEELS --3-- 67-02 M17-59811
ON THE AGE HARDENING OF MN-CR AUSTENITE NONMAGNETIC STEELS CONTAINING VANADIUM 67-02 M17-59980
ULTRAHIGH-STRENGTH STEELS 67-02 M17-60621
HIGH-STRENGTH PRECIPITATION-HARDENED CONSTRUCTIONAL STEELS 67-02 M17-60692
BRITTLENESS OF 475 C. IRON-CHROMIUM ALLOYS 67-02 M17-62095
STEEL GROWS WITH THE TRANSPORTATION INDUSTRY 67-03 M01-65623
NEW STEELS FOR THE CPI 67-04 M01-66588
STAINLESS STEEL WIRE FEATURES GREAT STRENGTH AT HIGH TEMPERATURES 67-05 M17-69498
HIGH-TEMPERATURE SPRINGS 67-06 M17-71231
EFFECT OF DIFFERENT CHROMIUM CONTENTS ON THE PROPERTIES OF THE NONMAGNETIZABLE PRECIPITATION-HARDENING STEEL X 45 MNNICRV 13 7 6 67-07 M17-72482
HIGH STRENGTH CAST STEEL 67-07 M17-73251
INFLUENCE OF THE GRAIN SIZE AND THE NB/C RATIO ON THE PROPERTIES OF KH16N15 M3B STEEL 67-08 M17-76015
AN AGE-HARDENABLE, LOW-EXPANSION ALLOY FOR CRYOGENIC SERVICE 67-10 M17-78489
PROPERTIES OF NICKEL-MOLYBDENUM-ALUMINUM AGE HARDENING STEELS 67-10 M17-79735

PRECIPITATION HARDENING STEELS, METAL WORKING
STRENGTHENING OF ALLOY STEELS BY AUSFORMING 67-04 M07-67564

PRECIPITATION HARDENING STEELS, MICROSTRUCTURE
BEHAVIORS OF THE PRECIPITATES OF 17-4PH STAINLESS STEEL BY THE ARC WELDING HEAT 67-03 M14-65842

PRECIPITATION HARDENING STEELS, PHYSICAL PROPERTIES
AGE-HARDENING STEELS 67-08 M01-75084

PRECIPITATION HARDENING STEELS, SHEET /METAL/
DEVELOPMENT TRENDS FOR THE USE OF STEEL SHEETS AND STEEL FOIL AS STRUCTURAL MATERIALS FOR SUPERSONIC AIRCRAFT AS SHOWN IN THE XB-70A OF NORTH AMERICAN AVIATION INC 67-01 M20-58113

PRECIPITATION HARDENING STEELS, SPECIFICATIONS
AISI NO. 634 --PRECIPITATION HARDENING STAINLESS STEEL-- 67-04 M01-66323

PRECIPITATION HARDENING STEELS, X RAY ANALYSIS
ELECTRON PROBE MICROANALYSIS OF SUBMICROSCOPIC PRECIPITATES IN STAINLESS STEEL 67-04 M19-67274

PRECIPITATION HEAT TREATMENT
SEE ALSO ARTIFICIAL AGING /METALLURGICAL/
NATURAL AGING /METALLURGICAL/
OVERAGING
PRECIPITATION HARDENING
SECONDARY HARDENING
COHERENT PRECIPITATION IN SUBSTITUTIONAL SOLID

SOLUTIONS OF ALPHA IRON 67-01 M14-57926
A STUDY ON AGING PROCESS OF A LEAD-0.4 WT PER CENT MAGNESIUM ALLOY BY MEANS OF SPECIFIC HEAT MEASUREMENTS 67-01 M14-58326
THE POSSIBLE FIXATION OF NITROGEN BY CHROMIUM AND VANADIUM DEEP DRAWING RIMMING STEELS TO REDUCE THE SUSCEPTIBILITY TO AGING 67-02 M10-59109
SOME MAGNETIC PROPERTIES OF DILUTED CU-CO ALLOYS 67-02 M15-61037
INFLUENCE OF DISK-LIKE PRECIPITATES ON THE COERCIVE FORCE IN ALPHA IRON 67-02 M15-61038
ELECTRON MICROSCOPE OBSERVATIONS ON PRECIPITATION IN BERYLLIUM 67-03 M14-65256
PROBLEMS RELATED TO THE WELDING OF LOW-CARBON AUSTENITIC STAINLESS STEELS 67-04 M18-66641
HEAT TREATMENT OF CU-CR AND CU-CO-SI ALLOYS 67-05 M10-68457
INFLUENCE OF HEATING RATE ON TRANSFORMATIONS IN AN 18 PER CENT NICKEL MARAGING STEEL 67-05 M14-68435
WELDABLE AUSTENITIC MATERIALS FOR THE TEMPERATURE RANGE FROM 500 TO 700 C 67-08 M11-74449
ON THE BEHAVIOURS OF THE PRECIPITATED SULPHIDE INCLUSIONS IN SOLID STEEL 67-10 M14-79993
THE NEW MAGNESIUM ALLOYS FOR AEROSPACE 67-10 M17-79179
THE TOUGHNESS OF FERRITIC STEEL STRENGTHENED BY PRECIPITATION OF CBC 67-12 M17-82566

PRECIPITATORS
SEE ELECTROSTATIC PRECIPITATORS

PRECISION CASTING
SEE INVESTMENT CASTING

PRECISION FINISHING
HINTS ON THE DESIGN OF LARGE DRAWING DIES 67-01 M08-58112
COMPARATIVE STUDY OF TOOL WEAR AND THE ROUGHNESS OF THE MACHINED SURFACE. PT. 3 67-06 M08-71806

PREFERENTIAL ATTACK /CORROSION/
SEE INTERGRANULAR CORROSION

PREFERRED ORIENTATION
CHEMICALLY REACTIVE CRYSTAL DEFECTS IN ELECTRODEPOSITED NICKEL 67-01 M13-58235
QUANTITATIVE RELATIONS BETWEEN TEXTURE AND REMANENCE OF HEXAGONAL FERRITES 67-01 M13-58443
THE ORIENTATION OF SINGLE CRYSTALS WITH THE LAUE BACK-REFLECTION METHOD 67-02 M13-59622
SLIP ROTATIONS OF POLYCRYSTALLINE COPPER HAVING THE --001-- --110-- ORIENTATION DURING ROLLING 67-02 M14-59111
A CONSIDERATION ON THE DEVELOPMENT OF ROLLING TEXTURES IN ALPHA IRON 67-02 M14-59112
ELASTIC WAVE VELOCITIES IN CUBE-TEXTURED COPPER SHEET 67-03 M13-65092
SURFACE STRUCTURE AND CHEMICAL REACTIVITY OF ELECTRODEPOSITED NICKEL 67-04 M13-66270
GROWTH AND PREFERRED ORIENTATIONS OF LARGE ELONGATED GRAINS IN DOPED TUNGSTEN SHEET 67-06 M13-69949
TWINNING AND MORPHOLOGY OF EPITAXIAL LAYERS OF GAAS ON GE 67-06 M13-70513
NEW TECHNIQUE FOR ORIENTATION OF CRYSTAL FROM LAUE BACK-REFLECTION PHOTOGRAPHS 67-06 M13-71625
STRUCTURE OF THE ROLLING TEXTURE OF BCC METALS AND ALLOYS. PT. 2. ORIENTATION DISTRIBUTION OF CRYSTALLITES IN ROLLED NIOBIUM DETERMINED BY MEANS OF SELECTED AREA ELECTRON DIFFRACTION --SAED-- 67-06 M14-71723
THE GROWTH OF LARGE SINGLE CRYSTAL SHEETS WITH THE --100-- --011-- ORIENTATION FROM ELECTROLYTIC IRON 67-06 M14-71733
DEFORMATION TEXTURES IN INGOT BERYLLIUM 67-07 M13-73753
ANISOTROPY IN DRAWING STEELS 67-08 M13-74520
A SPECIAL METHOD OF POLE FIGURE ANALYSIS OF CDS FILMS 67-08 M13-74709
ORIENTED NUCLEATION IN THE FORMATION OF ANNEALING TEXTURES IN IRON 67-08 M14-75582
X-RAY STUDY OF SOME THIN NICKEL ELECTRODEPOSITS 67-09 M13-78135
TEXTURE DEVELOPMENT AND CRYSTAL PERFECTION IN NIOBIUM --COLUMBIUM-- ANNEALED AT 2000 C 67-11 M13-81354
BERYLLIUM OXIDE 67-11 M16-80468
ORIENTED GROWTH OF THE INTERFACIAL PTSI LAYER BETWEEN PT AND SI 67-11 M16-81205
THE CRYSTALLOGRAPHY OF THE REVERSE MARTENSITIC TRANSFORMATION IN AN IRON-NICKEL ALLOY 67-12 M13-82761
A CRYSTALLOGRAPHIC INTERPRETATION OF THE PREFERRED ORIENTATION OF LARGE GRAINS IN DOPED TUNGSTEN WIRE 67-12 M13-82873
EPITAXIAL GROWTH OF GOLD ON CADMIUM IODIDE 67-12 M14-82009
THE EFFECT OF PREFERRED ORIENTATION ON THE MECHANICAL PROPERTIES AND DEFORMATION BEHAVIOR OF ZIRCALOY-2 FUEL SHEATHING 67-12 M17-82571

PREFERRED ORIENTATION, ALLOYING EFFECTS
EFFECT OF CHROMIUM AND COBALT ON ROLLING TEXTURE OF IRON 67-04 M07-66620

PREFERRED ORIENTATION, STRESS EFFECTS
ON THE COLD ROLLING AND ANNEALING TEXTURES OF MILD STEEL SHEETS 67-01 M14-58737
HOT EXTRUDED AND COLD ROLLED TEXTURES OF DISPERSION ALLOY, AL-AL2O3 --SAP-- 67-02 M13-59982
ORIENTATION CHANGES OF SINGLE CRYSTALS OF FACE CENTERED CUBIC METALS ON WIRE DRAWING. PT. 3. DISCUSSION OF THE RESULTS 67-05 M14-69849
THE ORIGIN OF RIDGING IN 17 PER CENT CR STAINLESS STEEL HOT STRIPS 67-09 M13-78241
PREFERRED TRANSFORMATION IN STRAIN-HARDENED AUSTENITE 67-12 M14-82964

PREGNANT LIQUORS, REFINING
INVESTIGATION OF KINETICS OF JOINT PRECIPITATION OF AU, AG AND CU FROM CYANIDE SOLUTIONS 67-06 M03-71301
EXTRACTIVE REFINING OF NICKEL SOLUTIONS BY EXTRACTING IRON AND COPPER 67-07 M03-73486

PREHEATERS
SEE HEATING EQUIPMENT

PREHEATING
SEE HEATING

PRESERVATION
METHODS OF PRESERVING AND PACKING METALWARE BEING TRANSPORTED TO TROPICAL CLIMATES 67-12 M18-81878

PRESS FORGING
METAL FLOW IN STEEL FORGINGS 67-02 M07-59463
METALWORKING 67-05 M01-69601
THE CLASSIC FORGE 67-05 M07-69314
FUNDAMENTAL STUDY OF METAL FLOW IN STEEL FORGING 67-06 M07-70244
BERYLLIUM POWDER FORGING 67-07 M09-73870
FORGING METALLURGY--TITANIUM. PT. 2. FORGING METHODS AND EQUIPMENT. 67-10 M07-79778
THE INFLUENCE OF FORGING CONDITIONS IN DIE FORGING PRACTICE ON THE MECHANICAL PROPERTIES OF TITANIUM-ALLOY DIE FORGINGS 67-10 M07-79956
FORGING TESTS ON AND DATA FROM MODERN HYDRAULIC AND OIL-POWERED HIGH-SPEED PRESSES 67-12 M07-81927

PRESS FORGING, AUTOMATION
CONTROL OF INTEGRATED FORGING SHOPS 67-12 M07-81926

PRESS FORGINGS
HYDRAULICALLY OPERATED SCREW PRESSES 67-04 M08-67250

PRESS FORMING
NEW TRANSFER PRESSES WORK DOUBLE TIME 67-01 M08-58474
EFFECT OF CRYSTALLOGRAPHIC TEXTURE ON PRESS FORMING OF EXTRA-LOW-CARBON RIMMED STEEL SHEET 67-01 M17-58240
RESEARCH ON THE FORMABILITY AND TESTING METHOD OF DEEP DRAWING STEEL SHEET 67-03 M08-65818
HYDRAULICALLY OPERATED SCREW PRESSES 67-04 M08-67250
DEVELOPMENTS IN THE USE OF AVOTHANE FOR PRESSWORK 67-04 M08-67404
RAPID DIE STEEL RULE PRESS TOOLS 67-06 M08-70709
THE EFFECTS OF LUBRICATION ON THE PRESS FORMING LIMITS OF SHEET METALS 67-06 M08-72263
FORMING BAR, TUBE, SHAPES AND WIRE 67-08 M08-74844
THE PRESS FORMABILITY OF ALUMINIUM AND ITS ALLOYS 67-09 M08-76680
THE TESTING OF SHEET METAL FOR PRESS-WORK 67-09 M08-77512
PRESS FORMING OF STAINLESS STEELS 67-09 M08-78142
MECHANICAL FORMING REPLACES ELECTROFORMING 67-11 M07-80676
THE STATE OF DEVELOPMENT IN THE PRECISION STAMPING TECHNOLOGY. PT. 2 67-11 M08-80298

PRESS WORKING
SEE PRESS FORMING

PRESSES

PRESSES

SEE ALSO BRAKE PRESSES
FORGING PRESSES
BETEMA COMPACTING PRESSES FOR METAL POWDER
67-06 M09-71324

PRESSES, ECCENTRICS
FEASIBILITY OF FLASHLESS DIE FORGING WITHOUT COMPENSATORS ON CRANK PRESSES
67-01 M07-57244

PRESSES, HARD SURFACING
WEAR RESISTANCE BUILDUP OF DIES FOR BRIQUETTING LIGNITE 67-08 M11-75411

PRESSES, MECHANICAL PROPERTIES
DETERMINATION OF THE STRESS DISTRIBUTION IN A CYLINDRICAL, TWO-PART LONGITUDINALLY PRESTRESSED PRESSING TOOL 67-08 M17-76299

PRESSES, WELDING
BUILDING UP THE DIES OF PRESSES USED FOR BRIQUETTING BROWN COALS WITH WEAR-RESISTANT METAL 67-12 M11-82032

PRESSING
SEE ALSO COLD PRESSING
HOT PRESSING
HYDROSTATIC PRESSING
ISOSTATIC PRESSING
PRESS FORMING
MULTIPLE-SLIDE FORMING--A NEW OPPORTUNITY FOR ELIMINATING SECONDARIES 67-01 M07-58675
PRODUCING BRIQUETTES FROM SHAVINGS AND SLURRY 67-02 M02-62157
STEEL WORKING PROCESSES 67-02 M07-59628
SINTERED METAL PRODUCTS 67-02 M09-59446
INVESTIGATION OF VALUE OF LATERAL PRESSURE COEFFICIENT DURING PRESSING OF IRON POWDERS 67-02 M09-60174
NOVEL PRINCIPLES OF CALCULATION AND ANALYSIS OF POWDER COMPRESSION 67-02 M09-61628
DEPENDENCE OF COMPACTION PRESSURE ON THE RATIO OF THE COMPACTING SURFACE AREA AND THE AREA OF THE FRICTION SURFACE BETWEEN THE POWDER AND THE DIE WALLS 67-02 M09-61782
STUDY OF THE PRESSIBILITY OF METAL POWDERS OF DIFFERENT DISPERSITY 67-02 M09-62119
THE ROLLING COEFFICIENTS OF METAL POWDERS 67-02 M09-62121
PROBLEMS IN THE EXTRUSION OF TUBES FROM A VISCOPLASTIC CHARGE 67-02 M09-62122
PRODUCTION OF ELECTRODE STRIP FROM CADMIUM OXIDE BY POWDER ROLLING 67-02 M09-62132
CHIPS AND SLUDGE MADE INTO BRIQUETTES 67-04 M02-68199
STUDY OF THE DENSIFICATION OF REFRACTORY COMPOUND POWDERS BY THE ELECTRICAL CONDUCTIVITY METHOD 67-04 M09-67333
MECHANISM OF METALLIC CONTACT FORMATION IN SAP TYPE ALLOYS 67-04 M09-67335
REGULARITIES OF STRUCTURE FORMATION DURING THE SINTERING OF IRON-GRAPHITE COMPOSITIONS 67-04 M09-67337
SINTERING METAL CARBIDES UNDER PRESSURE 67-06 M09-70317
CASTING IN MOLDS PACKED BY PRESSING AT HIGH PRESSURES 67-07 M06-74041
A NEW METHOD FOR COMPACTING METAL OR CERAMIC POWDERS INTO CONTINUOUS SECTIONS 67-07 M09-73864
THE MECHANISM OF THE COMPACTION OF METAL POWDERS BY ROLLING 67-07 M09-73865
ELASTIC AFTEREFFECT DURING PRESSING OF TWO-COMPONENT METAL-CERAMIC MATERIALS 67-08 M09-74304
HELICAL GEARS BY POWDER METALLURGY 67-08 M09-75489
DETERMINATION OF THE LATERAL PRESSURE COEFFICIENT IN THE COMPACTION OF IRON POWDERS 67-09 M09-76907
FROM ALUMINUM POWDER TO P/M PREFORMS TO FORGED AND EXTRUDED PARTS 67-09 M09-78166
THE CALCULATION OF SINGLE AND MULTIPLE PRESSING STEPS 67-10 M08-79974
FABRICATION OF BICRYSTALS OF ALUMINIUM OXIDE 67-10 M09-79603
METHOD OF PRESSING ARTICLES FROM POWDER 67-10 M09-79808
NOW--STEEL IN POWDER METALLURGY 67-10 M09-80030
SINTERING OF CONSTRUCTIONAL POWDER MATERIALS BY HIGH-FREQUENCY CURRENTS 67-11 M09-80889
DEVELOPMENT OF A TECHNIQUE OF PREPARATION OF LA, GD, AND Y HEXABORIDES USING ELECTRON-BEAM HEATING 67-12 M09-82781
ROLE OF CAPILLARY EFFECTS IN THE DISTRIBUTION OF LIQUID BINDERS IN CARBON-GRAPHITE COMPACTS 67-12 M09-82784
PREPARATION OF ZNSEXTE1-X CRYSTALS BY VAPOR TRANSPORT 67-12 M14-82676

PRESSING, ULTRASONICS
PREPARATION OF DENSE PARTS FROM REFRACTORY METALLIDES WITH ULTRASONIC ACTIVATION 67-08 M09-75964

PRESSURE
SEE ALSO HIGH PRESSURE
HYDROSTATIC PRESSURE
PARTIAL PRESSURE
SUBLIMATION PRESSURE
VAPOR PRESSURE
SPECIFIC PRESSURE WHEN ROLLING BIMETALS BY THE PILE METHOD 67-11 M07-81654
THE PROBLEM OF MEASURING THE STATIC PRESSURE OF GAS IN THE HEARTH OF A BLAST FURNACE 67-12 M04-81704

PRESSURE BONDING
PROPERTIES OF GAS-PRESSURE-CONSOLIDATED BERYLLIUM POWDER 67-04 M09-67884
SOLID-STATE BONDING OF BERYLLIUM 67-04 M11-67883
SPECIAL FABRICATION TECHNIQUES 67-06 M01-70093
PRESSURE BONDING 67-11 M11-80479

PRESSURE CASTING
EFFECT OF MOLD FILLING RATE FLUCTUATION ON SURFACE QUALITY OF INGOT 67-01 M04-57257
THE EFFECT OF CASTING AND SOLIDIFICATION CONDITIONS ON THE PROPERTIES OF ROLLED AND FORGED PRODUCTS 67-01 M04-57916
DEVELOPMENT IN RECENT STEELMAKING TECHNOLOGY IN JAPAN 67-01 M04-58262
CASTING HIGH-ALLOY STEEL UNDER A LAYER OF LIQUID SYNTHETIC SLAG 67-02 M04-62141
MAGNESIUM PRESSURE DIE CAST PARTS IN MOTOR VEHICLES 67-02 M06-59725
METHOD OF EFFECTING THE SOLIDIFICATION OF METALS UNDER GASEOUS PRESSURE 67-02 M06-60935
RATE OF RISE OF AL ALLOYS IN A SAND MOLD 67-03 M06-65593
TEEMING HIGH-ALLOY STEEL UNDER A LAYER OF MOLTEN SYNTHETIC SLAG 67-04 M04-68183
CASTING ELECTRICAL STEEL AND RESULTING EFFECT ON ITS MAGNETIC PROPERTIES 67-04 M06-66336
A NEW PROCESS OF CASTING UNDER PRESSURE 67-04 M06-66411
INFLUENCE OF THE PRESSURE ON STRUCTURE AND PROPERTIES OF CAST DIE STEEL, 5KHNT 67-04 M06-67504
CHANGES IN THE MECHANICAL PROPERTIES OF BRONZE DEPENDING ON THE CASTING METHOD 67-04 M06-67507
STAMPING THINWALLED COMPONENTS FROM MOLTEN STEEL 67-04 M06-68098
PRESSURE CASTING STEP BY STEP 67-05 M04-68687
GATING AND FEEDING TECHNIQUES IN PRESSURE DIECASTING 67-06 M06-70048
THE LIQUID PRESSING OF METALLIC MATERIALS 67-06 M06-71273
ZINC ALLOY INGOTS MELTED IN VACUUM AND CAST UNDER PRESSURE 67-08 M06-74676
CENTRAL AND SIDE GATING SYSTEMS FOR PRESSURE DIE CASTING 67-08 M06-74796
PRESSURE DIE CASTING AT THE WORKS OF SINGER MANUFACTURING CO 67-08 M06-74797
CURRENT QUESTIONS ON THE RESEARCH AND USES OF THE CASTING PROPERTIES OF ALLOYS 67-08 M06-75103
STAINLESS STEEL TUBES BY STEWARTS AND LLOYDS 67-09 M07-76458
MECHANICAL CHARACTERISTICS OF ZN ALLOYS USED IN PRESSURE CASTING 67-09 M17-77395
THE PROPERTIES OF ALUMINIUM ALLOY CASTINGS PRODUCED BY LIQUID-METAL STAMPING 67-09 M17-78084
A NEW AUTOMATIC HOT CHAMBER PRESSURE DIE CASTING MACHINE 67-10 M06-78784
CASTING TIME IN PRESSURE DIE CASTING 67-10 M06-78785
AUTOMATIC COLD CHAMBER PRESSURE DIE CASTING MACHINE 67-10 M06-78786
SINGER SEWING MACHINES RELY ON DIECAST PARTS 67-10 M06-79029
LIGHT METAL PRESSURE DIE CASTINGS IN EUROPEAN MOTOR VEHICLES 67-10 M20-78783
PRESSURE CASTING OF TUBE HOLLOWS

67-11 M06-80421
PRESSURE CASTING OF TUBE HOLLOWS
67-11 M06-80672
MANUFACTURE OF COMPLICATED PARTS FROM A ZINC ALLOY BY THE PRESSURE CASTING METHOD
67-12 M06-81753
PRESSURE CASTING WITH CORED INSERTS--SEVERAL EXAMPLES FROM PRACTICE 67-12 M06-81754
TECHNOLOGICAL ADVANCES IN THE FIELD OF BRASS CASTING PRODUCTION 67-12 M06-81956
SOME POSSIBILITIES OF CASTING USING COUNTERPRESSURES 67-12 M06-82610
PRESSURE DIE CASTING AND THE MANIFOLD PROBLEM
67-12 M06-82901
STAINLESS STEEL TUBE PRODUCTION DEVELOPMENT--METHOD BASED ON PRESSURE CAST HOLLOWS
67-12 M06-83163
APPLICATION OF HIGH-FREQUENCY VIBRATIONS IN THE PRODUCTION OF PRESSURE DIE CASTINGS AND STRIPPING OF CORES 67-12 M06-83382

PRESSURE CASTING, AUTOMATION
AUTOMATIC FEEDING OF COLD CHAMBER MACHINES WITH MOLTEN MAGNESIUM ALLOYS 67-09 M06-76733

PRESSURE CASTINGS
INVESTIGATION OF THE PRESSURE TIGHTNESS OF GRAY CAST IRON 67-01 M15-57323
PROPERTIES OF ALUMINUM ALLOY CASTINGS PRODUCED BY PRESSING OF LIQUID CASTINGS 67-02 M17-61812

PRESSURE CASTINGS, COINING
COINING THIN-WALLED PIECES USING MOLTEN STEEL
67-02 M06-61237

PRESSURE CASTINGS, INCLUSIONS
FE-AL INCLUSIONS IN ZINC ALLOY PRESSURE CASTINGS
67-05 M13-69109

PRESSURE CASTINGS, MECHANICAL PROPERTIES
MECHANICAL CHARACTERISTICS OF ZN ALLOYS USED IN PRESSURE CASTING 67-09 M17-77395

PRESSURE CASTINGS, WELDING
A REMARKABLE ASSEMBLY--A BUBBLE CHAMBER ENVELOPE OF C. E. N. DESACLAY 67-06 M11-70576

PRESSURE DIE CASTING
SEE DIE CASTING

PRESSURE EFFECTS
THE EFFECT OF PRESSURE ON THE CURIE TEMPERATURE AND RESISTIVITY OF SOME RARE-EARTH METALS AND HEUSLER ALLOYS 67-06 M15-71282

PRESSURE GAGES
SEE ALSO IONIZATION GAGES
KNUDSEN GAGES
VACUUM GAGES
PROPERTIES OF GOLD-CHROMIUM ALLOY PRESSURE GAUGES
67-06 M20-70553
PHOTOMANOMETRIC TRANSDUCER OF PRESSURE-FLUCTUATION AMPLITUDES 67-12 M03-83092

PRESSURE GAS WELDING
HIGH STRENGTH PRESSURE WELDED STEEL BAR
67-03 M17-65822

PRESSURE GAUGES
SEE PRESSURE GAGES

PRESSURE INDUCTION WELDING
SHOCK WAVE SQUEEZES WELD METAL 67-02 M11-61005

PRESSURE MEASUREMENT
CHECKING GAS PRESSURE LOSSES IN THE CONTEMPORARY OPENHEARTH 67-06 M04-71876
MEASUREMENT OF DEFORMATION CONDITIONS DURING EXTRUSION 67-07 M03-74157
METHOD OF MEASURING STATIC PRESSURE OVER THE BLAST FURNACE HEIGHT 67-08 M04-74873
CALCULATION OF FISSION-PRODUCT GAS PRESSURES IN OPERATING UO2 FUEL ELEMENTS 67-08 M19-74469
THE BI I-12 TRANSITION PRESSURE MEASURED WITH A DEAD-WEIGHT PISTON GAUGE 67-10 M14-79167
FE-CO AND FE-V ALLOYS FOR PRESSURE CALIBRATION IN THE 130- TO 300-KBAR REGION 67-10 M15-79157
MEASUREMENT OF OXYGEN PRESSURE IN LIQUID IRON BY THE OXYGEN CONCENTRATION CELLS WITH THE SOLID ELECTROLYTE, ZRO2.CAO 67-10 M19-79992

PRESSURE MOLDING
SEE ALSO INJECTION MOLDING
IMPROVEMENTS IN PRESSURE-MOLDING METHODS
67-05 M06-68915

PRESSURE POURING
COLD CHAMBER DIE CASTING MACHINES GET AUTOMATIC METAL POURING 67-02 M06-61091

PRESSURE REGULATORS
CONTROLLED PRESSURE IN CONTINUOUS HEATING FURNACE WORKING SPACES 67-08 M10-74890

PRESSURE SINTERING
SEE HOT PRESSING
SINTERING

PRESSURE THERMIT WELDING
SEE THERMIT WELDING

PRESSURE VACUUM FURNACES
SEE VACUUM FURNACES

PRESSURE VESSELS
BETHLEHEM INSTALLS NEW PLATE QUENCH AND TEMPER FACILITY 67-01 M10-58495
WELDING IN THE CONSTRUCTION OF PRESSURE VESSELS FOR REACTORS. PT. 1. VESSELS FOR INDUSTRIAL NUCLEAR REACTORS 67-01 M11-57146
MANUAL ARC WELDING HYDROGEN RESISTANT, 60 MM GAGE 5 PER CENT CR-0.5 PER CENT MO SHEET STEEL
67-01 M11-58164
WORKABILITY OF CARBON STEEL-NICKEL BIMETAL
67-01 M17-57603
MANUFACTURE OF OIL REFINING EQUIPMENT OF QUENCHED AND TEMPERED LOW-ALLOY STEEL 67-01 M17-57604
METALLURGICAL ADVANTAGES AND ADVANCES IN HEAT TREATED STEELS, WITH PARTICULAR REFERENCE TO THE WELDABLE CONSTRUCTIONAL STEELS. PT. 3
67-01 M17-58449
A STUDY OF THE FRACTURE RESISTANCE OF STEEL PRESSURE VESSELS BY MEANS OF CHARPY, DROP WEIGHT, AND FULL SIZE BURST TESTS 67-01 M17-58604
THE FRACTURE BEHAVIOR OF MATERIALS AND SAFETY IN STRUCTURES 67-01 M17-58793
NONFERROUS METALS AND THE CHEMICAL ENGINEER. PT. 1. TITANIUM 67-02 M01-61140
PRESENT AND FUTURE IRON AND STEEL INDUSTRY OF JAPAN
67-02 M11-59961
WELDING IN THE CONSTRUCTION OF HIGH-PRESSURE VESSELS FOR REACTORS. PT. 2. STEELS FOR REACTOR BOILERS 67-02 M11-61056
DESIGN AND CONSTRUCTION OF PRESSURE VESSELS UTILIZING HIGH-STRENGTH STEEL
67-02 M20-59964
HIGHER CAPACITY OF NUCLEAR REACTORS AND DEVELOPMENT OF STEELS FOR PRESSURE VESSELS
67-02 M20-60718
THE REACTOR PRESSURE VESSEL OF THE LINGEN NUCLEAR POWER STATION 67-03 M20-65701
PRESSURE IN THE CHEMICAL INDUSTRY
67-04 M01-67296
LOW-NICKEL AUSTENITIC KH14G14N3T STEEL
67-04 M17-67976
RADIATION DAMAGE EXPOSURE AND EMBRITTLEMENT OF REACTOR PRESSURE VESSELS 67-05 M16-68346
GROOVED METALLIC SEAL FOR HELIUM PRESSURE VESSEL
67-05 M20-68504
SPINNING, SHEAR FORMING AND FLOW FORMING
67-06 M07-71900
THE BEHAVIOR OF 9 PER CENT NICKEL STEEL IN A REACTOR ENVIRONMENT 67-06 M17-71682
SILVER FOX HI-PROOF AUSTENITIC STAINLESS STEELS
67-06 M17-72099
INTRODUCTION TO FRACTURE TOUGHNESS
67-06 M17-72185
THE COMING STEELS FOR NUCLEAR PRESSURE-VESSEL SERVICE 67-06 M20-71066
THE IMPORTANT MATERIALS PARAMETERS AFFECTING THE PERFORMANCE OF NUCLEAR REACTOR PRESSURE VESSELS
67-07 M17-73399
THE POTENTIAL OF COMPOSITE MATERIALS
67-08 M20-74689
A VERSATILE ALUMINUM ALLOY FOR CRYOGENIC APPLICATIONS 67-09 M01-77302
THE ALUMINUM BRONZES IN WELDED STRUCTURES
67-09 M14-77973
REACTOR PRESSURE VESSELS--DESIGN-FABRICATION-TESTING 67-09 M20-77546
FINNED TUBES 67-09 M20-77547
ELECTROFORMING SHAPES A NEW IMAGE
67-10 M08-78594
PRESSURE VESSELS OF HIGH PROOF STRENGTH WARM WORKED STAINLESS STEEL 67-10 M17-79923
MANUFACTURE AND STUDY OF PRESSURE VESSELS WITH TITANIUM. PT. 3 67-11 M20-81183
CHEMICALLY RESISTANT STEELS AND ALLOYS. PRESENT STATE AND DEVELOPMENT 67-12 M01-83287
THE USE OF CORROSION RESISTANT STEELS AND ALLOYS IN NUCLEAR REACTOR CONSTRUCTION 67-12 M20-83299

PRESSURE VESSELS, CLADDING
STAINLESS LININGS BY AUTOMATIC WELDING IN NUCLEAR CONSTRUCTIONS 67-03 M11-65447

PRESSURE VESSELS, COATING
NEW TECHNIQUE IN OVERLAY VESSEL CONSTRUCTION
67-01 M12-58766
LATEST DEVELOPMENTS IN ZINC-RICH PAINTS

PRESSURE VESSELS

67-03 M12-65627
AUTOMATIC METALLIZING OF BUTANE BOTTLES
67-11 M12-81400

PRESSURE VESSELS, CORROSION
A CASE HISTORY OF TITANIUM STRESS CORROSION IN NITROGEN TETROXIDE 67-01 M18-58728
REFINERY REACTOR DESIGN TO PREVENT HIGH TEMPERATURE CORROSION 67-02 M18-60253
CORROSION RESISTANCE OF WELDED JOINTS OF HEAT RESISTANT STEELS WHEN USED IN THE PRODUCTION OF METHANOL AND ISOBUTANOL 67-03 M18-65060
SENSITIZATION AND THERMAL STABILIZATION OF NI-CR-MO-FE-W ALLOY 67-03 M18-65756
CORROSION RESISTANCE OF WELDED JOINTS IN HEAT RESISTING STEELS FOR METHANOL AND ISOBUTANOL PRODUCTION PLANT 67-07 M18-73978
COMPATIBILITY OF ATLAS MATERIALS WITH FLUORINE PROPELLANTS 67-09 M18-77564
STRESS CORROSION CRACKING OF AUSTENITIC STAINLESS STEELS IN REFINERIES 67-10 M18-79371
CHEMICAL STUDIES ON SULFIDE CORROSION CRACKING OF STORAGE TANK MATERIALS FOR LP GAS. PT. 2. PROTECTION OF HIGH-STRENGTH STEEL IMMERSED IN LP GAS CONTAINING HYDROGEN SULFIDE 67-11 M18-80486

PRESSURE VESSELS, DYNAMIC TESTS
THE TESTING OF METALLIC TUBES FOR PIPELINES CARRYING LIQUIDS UNDER PRESSURE AND METAL VESSELS UNDER INTERNAL HYDRAULIC PRESSURE DURING DYNAMIC HYDRAULIC FATIGUE CONDITIONS 67-10 M19-78646

PRESSURE VESSELS, FORGING
FABRICATION OF FORGED PRESSURE VESSELS 67-03 M08-65686

PRESSURE VESSELS, FORMING
FACILITIES AND TOOLING FOR EXPLOSIVE FORMING AND SOME ECONOMIC ASPECTS OF H. E. R. FORMING 67-05 M08-69737
STUDY OF ENERGY-FORCE PARAMETERS IN FORMING CYLINDERS 67-08 M08-75481

PRESSURE VESSELS, HEAT TREATMENT
AMERICAN OIL TURNS ON THE HEAT TO GET ITS CRACKERS CRACKING 67-08 M10-74443
BASIC PRINCIPLES OF HEAT TREATMENT OF STEELS FOR LOW-TEMPERATURE APPLICATIONS 67-10 M10-78856

PRESSURE VESSELS, IRRADIATION
THROUGH-THICKNESS NOTCH DUCTILITY AND TENSION PROPERTIES AS A FUNCTION OF NEUTRON EXPOSURE TO A SIMULATED PRESSURE VESSEL WALL OF A 320-B STEEL 67-12 M16-83253

PRESSURE VESSELS, MATERIALS
DEFORMABLE ALLOY ZR-TI-O-FE FOR HIGH-PRESSURE VESSELS 67-02 M09-61631
STUDIES OF IRRADIATION EFFECTS ON SWEDISH STEELS 67-03 M17-65685
AISI NO. 634 --PRECIPITATION HARDENING STAINLESS STEEL-- 67-04 M01-66323
USS CHAR-PAC --HEAT TREATED CARBON PLATE STEEL-- 67-04 M01-68068
CREEP RUPTURE PROPERTIES OF LARGE WELDED SPECIMENS 67-04 M17-67587
CORROSION OF HIGH STRENGTH STEELS IN CARBON DIOXIDE FOR GAS COOLED POWER REACTORS 67-04 M18-67593
ALUMINUM ALLOYS FOR PRESSURE HULLS 67-06 M11-70123
SELECTION OF MATERIALS FOR BOILERS AND NUCLEAR REACTORS 67-06 M17-72250
STRESSES IN CIRCULAR SEAMS OF MULTILAMINAL PRESSURE VESSELS 67-09 M17-78121

PRESSURE VESSELS, MECHANICAL PROPERTIES
STRENGTH OF WELDED MULTILAYER HIGH-PRESSURE VESSELS 67-01 M17-58208
IMPLEMENTATION OF HIGH RELIABILITY OBJECTIVES OF SURVEYOR PRESSURE VESSELS 67-01 M17-58729
STRENGTH OF WELDED JOINTS OF THERMALLY STRENGTHENED STEELS UNDER BIAXIAL TENSION 67-02 M11-60833
HOW LOW CYCLE FATIGUE EMBRITTLES PRESSURE VESSEL STEELS 67-02 M17-60694
MECHANICAL PROPERTIES OF KH14G14N3T STEEL AT MINUS 253 C 67-02 M17-61977
STRENGTH IN BIAXIAL TENSION OF WELDED JOINTS IN HEAT TREATED STEELS 67-04 M11-67990
EQUIBIAXIAL LOW-CYCLE FATIGUE PROPERTIES OF TYPICAL PRESSURE-VESSEL STEELS 67-04 M17-66233
CREEP-RUPTURE PROPERTIES OF CENTRIFUGALLY CAST 1 1/4CR-1/2MO ALLOY STEEL PIPE 67-04 M17-66234
WELDED SPIRAL-LAYERED PRESSURE CONTAINERS 67-04 M17-66561
APPLICATION OF DIGITAL COMPUTER TO DESIGN AND STRESS ANALYSIS OF HIGH PRESSURE VESSELS 67-04 M17-67213
FATIGUE TESTING OF AN AL-MG-MN ALLOY PRESSURE VESSEL 67-05 M17-69714
IMPROVING THE STRENGTH OF CONTAINERS MADE OF THE VT15 TITANIUM ALLOY BY LOW-TEMPERATURE HEAT AND MECHANICAL TREATMENT 67-06 M17-70949
THE BIAXIAL STRENGTHENING OF TEXTURED TITANIUM 67-06 M17-71628
EFFECT OF VARIATION IN POISSONS RATIO ON PLASTIC TENSILE INSTABILITY 67-06 M17-71631
FEATURES AND RESULTS OF SEVERAL PROGRAMS OF RADIATION-DAMAGE SURVEILLANCE OF POWER REACTOR PRESSURE VESSELS 67-06 M17-71640
HEAT TREATING AND STRESS RELIEF--PRESSURE VESSELS GET TWO IN ONE 67-07 M10-72516
STRUCTURAL STEEL DEVELOPMENTS IN JAPAN 67-07 M17-73293
THE USE OF MATERIALS PROPERTIES BY THE REACTOR VESSEL DESIGNER 67-07 M17-73397
THE SIGNIFICANCE OF RECENT DEVELOPMENTS IN FRACTURE MECHANICS IN GREAT BRITAIN IN RELATION TO THE SAFETY OF REACTOR PRESSURE VESSELS 67-07 M17-73398
THE FATIGUE STRENGTH OF BUTT-WELDED JOINTS IN LOW-ALLOY STRUCTURAL STEELS 67-07 M17-73886
CRACKING OF A PRESSURE VESSEL DUE TO PENETRATION BY SOLDER 67-08 M17-74503
FAILURE FROM INTERNAL, LAMINAR DEFECTS 67-08 M17-74504
HIGH PROOF STRESS STAINLESS STEELS--SUCCESSFUL VESSEL TESTS AT BWRA 67-08 M17-74738
EXPERIENCE WITH HIGH-STRENGTH WELDABLE STEELS IN PRESSURE LINE CONSTRUCTION 67-08 M17-74939
FAULTS IN DESIGN REVEALED BY SERVICE FAILURES. PT. 2 67-08 M17-75615
COCKENZIE--BRITTLE FRACTURE FAILURE 67-09 M17-76514
INFLUENCE OF THE STRUCTURE ON SUSCEPTIBILITY TO BRITTLE FRACTURE OF 40KHNMA STEEL 67-09 M17-77407
BRITTLE STRENGTH OF ELEMENTS OF THICK-WALLED VESSELS OF 22K STEEL AT AXIAL TENSIONS 67-09 M17-77602
PLASTIC INSTABILITY RESULTING FROM UNIAXIAL AND BIAXIAL TENSILE STRESS 67-09 M17-78036
LOW CYCLE FATIGUE CRACK PROPAGATION IN A201B, A302B, AND A517F PRESSURE VESSEL STEELS 67-09 M17-78148
PRODUCTION AND TESTING OF 1000 KG CHEMICAL CONTAINERS 67-10 M11-78613
INTERNAL STATIC PRESSURE TESTS ON NORMAL AND HI-PROOF STAINLESS STEELS 67-10 M17-78559
BURSTING TESTS ON 9 PER CENT NI STEEL PRESSURE VESSELS AT LOW TEMPERATURES 67-10 M17-78638
MECHANICAL PROPERTIES OF KH14G14N3T STEEL AT MINUS 253 C 67-10 M17-78834
EMBRITTLEMENT OF STEEL BY HYDROGEN AT HIGH TEMPERATURE AND HIGH PRESSURE 67-11 M17-81180
HOW DANGEROUS ARE WELD DEFECTS 67-11 M17-81197
SHORT ENDURANCE FATIGUE OF SUPPORTED, PRESSURIZED THIN SHELLS 67-12 M17-83241
INVESTIGATION OF ON6A AND ON9A STEELS FOR PERFORMANCE AT -196 C 67-12 M17-83531
TECHNIQUES FOR TESTING STRUCTURAL MATERIALS IN RELATION TO THEIR APPLICATION IN NUCLEAR REACTORS 67-12 M20-82813

PRESSURE VESSELS, METAL WORKING
SPIN FORMING OF THE BOTTOMS OF PRESSURE VESSELS 67-12 M08-81799

PRESSURE VESSELS, NONDESTRUCTIVE TESTING
ULTRASONIC WATER COLUMN PROBE SPEEDS UP TESTING OF WELDS 67-06 M19-70009
RADIOGRAPHY OF BOILERS AND PRESSURE VESSELS 67-06 M19-70363

PRESSURE VESSELS, SPECIFICATIONS
A RATIONAL APPROACH TO STANDARDS FOR WELDED CONSTRUCTION 67-01 M19-58591

PRESSURE VESSELS, STANDARDS
THE SIGNIFICANCE OF 1 PER CENT CREEP DATA 67-11 M17-80287

PRESSURE VESSELS, STRUCTURAL MATERIALS
WORKING TECHNIQUES OF TITANIUM AND TITANIUM-CLAD STEELS FOR CHEMICAL VESSELS 67-10 M12-79493

PRESSURE VESSELS, WELDING
A FLUX CUSHION FOR AUTOMATIC WELDING OF CONNECTING PIPES FOR VESSELS 67-01 M11-58279
THE NARROW-GAP MIG WELDING PROCESS FOR THICK STEEL PLATES 67-01 M11-58699
WELDING ALUMINUM ALLOY 7039 67-01 M11-58775
WELDS AND CRACKS 67-01 M17-57220
ON THE MECHANICAL PROPERTIES OF A WELDED JOINT OF HIGH-STRENGTH VKS1 STEEL OPERATING UNDER BIAXIAL TENSION CONDITIONS 67-01 M17-57369
USING 08 RIMMED STEEL IN THE PRODUCTION OF THIN-WALLED WELDED CYLINDERS USED AT LOW TEMPERATURES 67-01 M17-57378
BEHAVIOR OF 9 PER CENT NICKEL STEEL IN REACTOR ENVIRONMENT 67-01 M17-58350
PRESSURE VESSELS--AUTOMATE OR DIE 67-01 M20-58650
ON-SITE WELDING OF PLATED STEEL PRESSURE VESSELS 67-02 M11-59500
WELDING VACUUM-TIGHT ANGLE JOINTS IN AMG6 ALLOY 67-02 M11-59523
PRESTRESSES IN MULTILAYER SHELLS DURING ARC WELDING 67-02 M11-59524
ERECTION WELDING OF BILAYER STEEL 20K-PLUS-KH17N13M2T 67-02 M11-59528
A DEVICE FOR EXTERNAL AUTOMATIC SUBMERGED ARC WELDING OF LONGITUDINAL AND CIRCUMFERENTIAL SEAMS 67-02 M11-60134
A FLOW LINE FOR PRODUCING WELDED CYLINDRICAL VESSELS 67-02 M11-60841
APPLICATION OF T-1 STEEL IN PRESSURE PIPING 67-02 M11-61577
HIGH PRESSURE FEEDWATER HEATERS WELDED QUICKLY AND MORE EFFICIENTLY WITH SEMIAUTOMATIC PROCESS 67-02 M11-61579
THICKEST HY-80 VESSEL TESTS SUB SAFETY SYSTEM 67-02 M11-61814
THE PROPERTIES OF NORMALIZED AND TEMPERED AND OF QUENCHED AND TEMPERED 6-1/4-INCH-THICK PLATES OF 2-1 4CR-1MO STEEL 67-03 M17-65001
WELDING OF APPARATUS FROM TI-CLAD BIMETALS 67-04 M11-66347
VACUUM-TIGHT CORNER WELDS IN AMG6 ALLOY 67-04 M11-66472
PRE-STRESSING IN MULTILAYER DRUMS DURING ARC WELDING 67-04 M11-66473
FLUX CUSHION FOR THE AUTOMATIC WELDING OF BRANCH PIPES TO VESSELS 67-04 M11-67360
ELECTRON BEAM BUTT WELDING OF 5254 ALUMINUM ALLOY PRESSURE VESSEL 67-04 M11-67626
AN APPARATUS FOR THE AUTOMATIC SUBMERGED ARC WELDING FROM OUTSIDE 67-04 M11-67674
WELDING CIRCULAR SEAMS IN ALUMINUM ALLOY SHELLS 67-04 M11-67806
A PRODUCTION LINE FOR WELDED CYLINDRICAL VESSELS 67-04 M11-67998
FINNED WALLS IN MODERN STEAM PRESSURE VESSEL CONSTRUCTION. PT. 1 67-04 M11-68005
SURVEY OF EXPERIENCES WITH WELDED STEEL IN LOW-TEMPERATURE APPLICATIONS 67-04 M11-68022
WELDING OF 9NI STEEL TANKS FOR THE STORAGE OF LIQUID OXYGEN 67-05 M11-69168
VARIETY AND COMPLEXITY OF CONTROLS INVOLVED IN FABRICATION OF HEAVY-WALL WELDED CONSTRUCTIONS 67-05 M11-69328
FABRICATION OF LIQUEFIED OXYGEN AND NITROGEN STORAGE TANKS FROM FLT9N --9 PER CENT NICKEL-- STEEL 67-05 M17-69369
SOME ASPECTS OF THE WELDING OF CIRCUMFERENTIAL SEAMS IN ALUMINIUM ALLOY VESSELS 67-06 M11-70306
GAS-TIGHT TUBEWALLS AS STRUCTURAL ELEMENTS OF PRESSURE VESSELS 67-06 M11-70460
GAS-TIGHT TUBE WALLS AS STRUCTURAL ELEMENTS IN PRESSURE VESSEL CONSTRUCTION. PT. 1 67-06 M11-70712
HIGH QUALITY CO2 WELDING AT AB KARLSTADS SVETSINDUSTRI, KARLSTAD SWEDEN 67-06 M11-71576
THE FABRICATION OF REACTOR PRESSURE VESSELS AND REACTOR COMPONENTS WITH SPECIAL REGARD TO WELDING 67-07 M11-73466
ELECTROSLAG WELDING OF OIL REFINING MACHINERY 67-09 M11-76518
MIG AND TIG, BIG AT WORTHINGTON 67-09 M11-76656
MECHANIZED WELDING OF THICK-WALLED VESSELS OF CLAD STEELS 67-09 M11-77958
WELDING OF VESSELS FROM ALUMINUM ALLOY 67-09 M11-78125
MECHANIZATION AND AUTOMATION IN WELDING OF SECTIONAL PRESSURE VESSELS 67-10 M11-78415
WELDING IN U.K. SHIP CONSTRUCTION 67-10 M11-78798
SPHERICAL CONTAINERS FOR THE STORAGE OF LIQUEFIED GAS 67-10 M11-79056
SOME THOUGHTS ON ALUMINIUM PRESSURE VESSELS 67-11 M11-81008
EQUIPMENT TESTING. LEAK TESTING ASSURES SOUND VESSELS 67-11 M19-81569
CAST AND WELDED STEEL STRUCTURES 67-11 M20-81130
FUEL TANKS FOR MOON SHOT--TIG-WELDED TITANIUM 67-12 M11-81931
FIRST CODE STAMPED PRESSURE VESSEL OF 7039 67-12 M11-81932
GAS METAL-ARC WELDING APPLIED IN MAINTENANCE 67-12 M11-82816
AUTOMATIC WELDING ON VERTICAL SURFACES IN THE OPEN AIR 67-12 M11-83279
PRESSURE WELDING
SEE ALSO COLD WELDING
DIFFUSION WELDING
EXPLOSIVE WELDING
FLASH WELDING
FOIL SEAM WELDING
FRICTION WELDING
MAGNETIC FORCE WELDING
MASH SEAM WELDING
PERCUSSION WELDING
PRESSURE GAS WELDING
PRESSURE INDUCTION WELDING
PROJECTION WELDING
PULSATION WELDING
RESISTANCE SEAM WELDING
RESISTANCE SPOT WELDING
RESISTANCE WELDING
ROLL WELDING
STUD WELDING
ULTRASONIC WELDING
UPSET WELDING
BUTT-JOINING 80S STEEL REDUCED-CARBON REINFORCEMENT CORE RODS 67-01 M11-58181
WELDING BORON CARBIDE TO SILICON 67-01 M11-58379
ON THE FUNDAMENTAL TECHNIQUE OF FOIL METALLURGY 67-02 M11-59745
DEPOSITION OF METAL ON THE WORKING SURFACES OF MACHINE TOOL COMPONENTS 67-02 M11-61063
PRESSURE MICROWELDING IN THE MANUFACTURE OF SEMICONDUCTOR APPARATUS 67-04 M11-67156
AN EFFICIENT METHOD TO PRODUCE HYDRAULIC SHOCK ABSORBERS 67-04 M11-67249
SOLID PHASE BONDING WITH INSERT METALS 67-04 M11-67589
MECHANICAL PROPERTIES OF BUTT JOINTS OF ALUMINUM LEADS WELDED BY DIFFERENT TECHNIQUES 67-04 M17-67447
PRESS WELDING UNIFORMLY HEATED LARGE SIZE STEEL BILLETS 67-05 M17-69409
WARM-WELDING OF METALS IN ULTRA-HIGH VACUUM 67-06 M11-70953
NEW DEVELOPMENTS IN THE WELDING OF COPPER AND COPPER ALLOYS 67-06 M11-71597
WELDING HEAT-RESISTANT CERMET COPPER-BASE ALLOYS WITH CAST COPPER BY THE DYNAMIC PRESSURE METHOD 67-06 M12-70777
WELDING METHODS TO PRODUCE TUBES AND SHAPES. PT. 1 67-07 M11-73710
FORMING JOINTS WHEN WELDING WITHOUT FUSION 67-08 M11-75407
COLD WELDING OF STEELS 67-09 M11-77238
STEEL JOINTS PRODUCED BY PRESSURE WELDING 67-09 M11-78118
THE FORGE WELDING OF LARGE CROSS SECTION STEEL BLANKS 67-10 M17-78513
METALLURGICAL DEVELOPMENTS IN THE MANUFACTURE OF EARTHMOVING EQUIPMENT 67-10 M17-79304
DESIGN EVALUATION OF PRESSURE WELDING CONDITIONS 67-11 M11-80550
CALCULATING TEMPERATURE DISTRIBUTION IN THE CONTACT WHEN PRESSURE MICROWELDING WITH INDIRECT HEAT 67-12 M11-81911
FORMATION OF JOINTS DURING WELDING WITHOUT MELTING 67-12 M11-82028
TERMINATING ALUMINUM CONDUCTORS 67-12 M11-82469
TEMPERATURE DISTRIBUTION DURING PRESSURE WELDING

PRESSURE WELDING
WITH INDIRECT PULSE HEATING 67-12 M19-82628
PRESSURELESS SINTERING
SEE LOOSE POWDER SINTERING
PRESSURIZED WATER REACTORS
FABRICATION AND MATERIAL TESTING OF THE FUEL ELEMENTS FOR THE ADVANCED PRESSURIZED-WATER REACTOR OF THE NUCLEAR RESEARCH SHIP, OTTO HAHN 67-12 M20-83278
PRESSURIZED WATER REACTORS, CORROSION
SPECIAL PROBLEMS OF WATER CORROSION FOUND IN NUCLEAR INSTALLATIONS 67-06 M18-71501
PRESTRESSED CONCRETE, CORROSION
CORROSION OF REINFORCING MATERIALS IN REINFORCED PRESTRESSED CONCRETES 67-05 M18-69893
PRESTRESSING
CHANGE IN THE SHAPE OF THE FLOW CURVE IN PLASTICALLY DEFORMED STEEL 67-04 M17-67235
SELECTED METALLURGICAL ASPECTS OF CLADDING MATERIALS 67-11 M17-80473
MECHANICAL PROPERTIES AND INTERNAL STRESSES OF FIRST ORDER OF COLD-DEFORMED CONCRETE REINFORCING STEEL BARS 67-12 M17-83396
PRESTRESSING STEELS, MECHANICAL PROPERTIES
MECHANICAL AND RHEOLOGICAL PROPERTIES OF HIGH-STRENGTH WIRES 67-04 M17-66376
PREVENTION
SEE CORROSION PREVENTION
IMPRESSED CURRENT PROTECTION
INHIBITION
POLLUTION ABATEMENT
RUST PREVENTION
PREVENTIVE MAINTENANCE
SEE MAINTENANCE
PRIMARY DISPLACEMENTS
SEE DISPLACEMENTS /LATTICE/
PRIMERS /COATINGS/
STUDY OF WELDING PRIMERS 67-03 M11-65449
EUROPEAN RESEARCH ON RUST INHIBITIVE COATINGS 67-06 M18-71069
PRIMERS /COATINGS/, CORROSION
INFLUENCE OF ZINC DUST LOADINGS. ZINC RICH PAINTS IN HIGHLY CORROSIVE ENVIRONMENTS 67-08 M18-75743
PRIMING /COATING/
PLASTIC COATING OF WIREWORK 67-04 M12-66636
ELECTROPAINTING AT MASSEY-FERGUSON TRACTORS 67-04 M12-66720
PROTECTIVE PAINTS FOR STRUCTURAL STEELS 67-04 M18-66559
FLEXIBILITY PAYS DIVIDENDS IN FINISHING HEAVY WORKPIECES 67-07 M12-74030
PRINTED CIRCUITS
COMPUTERS AND PLATING--A PRELIMINARY GLIMPSE OF 21ST CENTURY OPERATIONS 67-02 M12-60685
SCIENCE FOR ELECTROPLATERS. PT. 112. PALLADIUM 67-03 M12-65044
THE ELECTROPLATING OF PLASTICS 67-04 M12-68060
THE PRINCIPLES, PRACTICE AND POSSIBLE APPLICATIONS OF CURRENTLESS NI PLATING. PT. 3 67-04 M12-68061
PLATINUM AND PALLADIUM METALLIZING PREPARATIONS 67-05 M12-69731
ELECTROLESS PLATING FOR ELECTRONIC APPLICATIONS 67-07 M12-72771
APPLICATIONS OF METAL FINISHING IN PRINTED CIRCUITS. PT. 1 67-09 M12-77388
NONDESTRUCTIVE INSPECTION TECHNIQUES FOR MULTILAYER CIRCUIT BOARDS 67-09 M19-77102
PRINTED CIRCUITS, COATING
SOME UNIQUE APPLICATIONS OF POSITIVE-WORKING PHOTORESISTS IN THE PLATING OF PRINTED WIRING BOARDS 67-09 M12-78054
COPPER PYROPHOSPHATE PLATING WITHOUT ADDITIVES 67-09 M12-78055
APPLICATIONS OF METAL FINISHING IN PRINTED CIRCUITS. PT. 2 67-10 M12-79003
PRINTED CIRCUITS, PLATING
THROUGH-HOLE PLATING--WHY SOLUTION AGITATION 67-04 M12-66508
MIRROR-BRIGHT GOLD PLATING FOR INDUSTRIAL COMPONENTS 67-04 M12-66648
PRINTED CIRCUITS, SOLDERING
SOLDERABILITY OF COATINGS FOR PRINTED CIRCUITS 67-05 M11-68827
PRINTED CIRCUITS, SURFACE FINISHING
FULLY AUTOMATIC INSTALLATIONS FOR THE ELECTROLYTIC AND CHEMICAL SURFACE TREATMENT OF PRINTED CIRCUITS 67-10 M12-79887
PROBES
SEE MEASURING INSTRUMENTS
PROCESS CONTROL
EFFECT OF OXYGEN LANCES ON THERMOCHEMISTRY OF OPEN HEARTH PROCESS 67-03 M04-65501
DEVELOPMENT AND APPLICATION OF RAPID CARBON DETERMINATION FOR OPEN HEARTH CONTROL 67-03 M04-65529
EFFECT OF STEELMAKING VARIABLES ON THE ALUMINUM ANALYSIS OF DEEP DRAWING ALUMINUM KILLED STEELS 67-03 M04-65538
PRODUCTION OF STEEL BY THE BESSEMER PROCESS 67-03 M04-65543
TEN YEARS OF NUCLEAR RESEARCH IN STEELMAKING OPERATIONS 67-03 M04-65802
X-RAY FLUORESCENCE ANALYSIS IN A STEEL FOUNDRY 67-03 M19-65010
WORKING OUT THE PIG-IRON CASTING SCHEDULE WITH THE AID OF A COMPUTER 67-04 M04-67682
APPARATUS FOR CONTROLLING THE PROCESS OF SPOT WELDING FROM INFRARED RADIATION 67-04 M11-66836
EXPERIENCES WITH CONTINUOUS CASTING OF BILLETS 67-05 M04-68695
CONTROL OF THE DEOXIDATION OF RIMMING STEEL BASED ON THE BATH COMPOSITION BEFORE THE TAP 67-05 M04-69075
OPTIMIZING HEAT TREATMENTS FOR PRECIPITATION HARDENING SUPERALLOYS 67-05 M10-68676
CONTINUOUS FINISHING SYSTEM DOES BIG JOB IN SMALL PLANT 67-05 M12-68661
OPERATION OF AN ELECTRIC ARC FURNACE BY MEANS OF A PROCESS CONTROL COMPUTER 67-06 M04-70198
REGULATING THE EXCESS AIR IN OPENHEARTH FURNACES OF VARIOUS CAPACITY 67-06 M04-71245
DESIGN AND OPERATION OF A FLAME TEMPERATURE COMPUTER ON A BLAST FURNACE 67-06 M04-72079
INTRODUCTION OF COMPUTER CONTROL TO THE BLAST FURNACE 67-06 M04-72130
BLAST FURNACE CHARGING 67-07 M04-73327
ON-LINE CUPOLA CONTROL WITH A COMPUTER 67-07 M06-73614
BLAST FURNACE PRACTICE AND TRENDS IN BLAST FURNACE OPERATION AT KONINKLIJKE NEDERLANDSCHE HOOGOVENS EN STAALFABRIEKEN NV 67-09 M04-76388
PROCESS ENGINEERING USES OF RADIOACTIVE ISOTOPES 67-09 M19-78104
PRODUCTION
SEE FABRICATION
PRODUCTIVITY
ELECTRIC FURNACE PRODUCTIVITY 67-07 M04-72899
PROFILE GRINDING
NC PROFILING MADE FAIL-SAFE 67-07 M08-73444
PROFILE MILLING MACHINES
NC MACHINING OF TITANIUM 67-05 M08-69502
PROFILES, MECHANICAL PROPERTIES
STRENGTH OF THE BENT PROFILES OF LOW-CARBON STEEL 67-09 M17-78122
PROFILES, ROLLING
POWER PARAMETERS FOR ROLLING SHAPED PROFILES FROM CAST BILLETS 67-02 M07-61872
MODERN PRODUCTION OF CIRCLIP WIRE 67-04 M07-68175
PROFILOMETERS
OPTICAL SURFACE ROUGHNESS MEASURING METHODS 67-02 M19-59997
CUTTING BURRS AND METHODS OF MEASUREMENT 67-10 M19-79491
PROGRAMS /COMPUTERS/
COMPUTERIZED CONTROL OF THE BASIC OXYGEN LD PROCESS. PT. 1. THE CARBON ELIMINATION REACTION IN THE BASIC OXYGEN LD FURNACE AND THE POSSIBILITY OF CONTINUOUS DETERMINATION OF THE BATH CARBON CONTENT 67-05 M04-69062
MODELING THE OXYGEN CONVERTER PROCESS ON A COMPUTER 67-06 M04-70269
BLAST FURNACE CHARGING 67-07 M04-73327
AUTOMATIC CHARGING OF BLAST FURNACES 67-08 M04-75793
REMOTE CONTROL TECHNIQUES IN THE AUTOMATION OF THE SINTERING PLANT OF THE ILSEDE --PEINE-- WORKS AS MEANS OF OPTIMIZATION OF THE SINTERING PROCESS 67-10 M02-79686
EXPERIENCE GAINED WITH A FULLY PROGRAMMED BLOOMING MILL 67-10 M07-78699
HOW SHELL USES COMPUTER IN CORROSION CONTROL PROGRAM 67-11 M18-80512
NUMERICAL ANALYSIS OF CRACK PROPAGATION IN CYCLIC-LOADED STRUCTURES 67-12 M17-83239
PROJECTILES, CORROSION

STRESS CORROSION CRACKING OF FIRED BULLETS OF BRASS
67-12 M18-82893

PROJECTILES, MACHINING
ROCKET WARHEADS PROVIDE NEW WORK FOR ONTARIO PLANT
67-05 M08-68805

PROJECTION WELDERS
SEE RESISTANCE WELDING MACHINES
SPOT WELDERS

PROJECTION WELDING
PROJECTIONS FOR WELDING 67-02 M11-59583
WELD FASTENERS PUSH INTO LIMELIGHT
67-03 M11-65764
RESISTANCE WELDING TODAY 67-06 M11-72244
STUDIES IN MULTIPLE PROJECTION WELDING
67-07 M11-73890
TWO WAYS TO JOIN WIRE SPACERS TO REACTOR FUEL TUBES
67-10 M11-78625
BETTER WELDS IN GALVANIZED STEEL
67-12 M11-81924
SHORT CYCLE PROJECTION STUD WELDING
67-12 M11-82817

PROOF STRENGTH
SEE PROOF STRESS

PROOF STRESS
EFFECT OF COPPER ON THE MECHANICAL PROPERTIES OF A HEAT-TREATED 0.3 PER CENT C STEEL
67-04 M17-66987
HARDENING BY STACKING FAULT PRECIPITATION IN AN 18CR-12NI-NB AUSTENITIC STEEL
67-04 M17-67190
APPLICATION OF FRACTURE MECHANICS TO AN ALLOY STEEL USED IN TURBO-GENERATOR LOW-PRESSURE DISKS
67-04 M17-67417
FATIGUE TESTING OF AN AL-MG-MN ALLOY PRESSURE VESSEL 67-05 M17-69714
ELEVATED TEMPERATURE YIELD AND 0.2 PER CENT PROOF STRESS PROPERTIES OF CARBON STEEL PLATES, WITH PARTICULAR REFERENCE TO THE VALUES SPECIFIED IN B.S. 1501..1964 67-08 M17-74500
HIGH PROOF STRESS STAINLESS STEELS--SUCCESSFUL VESSEL TESTS AT BWRA 67-08 M17-74738
SOME INVESTIGATIONS OF THE AGE HARDENING OF A WROUGHT ALMGSI TYPE ALLOY IN THE UNSTRETCHED AND STRETCHED CONDITION 67-10 M10-79086
PRESSURE VESSELS OF HIGH PROOF STRENGTH WARM WORKED STAINLESS STEEL 67-10 M17-79923
THE ANALYSIS AND ASSESSMENT OF ELEVATED-TEMPERATURE LOWER YIELD OR PROOF STRESS, CREEP, AND STRESS-RUPTURE DATA 67-11 M17-80258
THE EFFECT OF RATE OF STRAINING ON THE 0.2 PER CENT PROOF STRESS AND LOWER YIELD STRESS OF STEEL
67-11 M17-80259
HIGH-TEMPERATURE PROPERTIES OF 9 PER CENT CR-1 PER CENT MO STEEL 67-11 M17-80263
ELEVATED-TEMPERATURE TENSILE, CREEP, AND RUPTURE PROPERTIES OF VARIOUS CARBON STEELS
67-11 M17-80264
ELEVATED-TEMPERATURE TENSILE, CREEP, AND RUPTURE PROPERTIES OF 1 PER CENT CR-1/2 PER CENT MO, 2 1/4 PER CENT CR-1 PER CENT MO AND 1/2 PER CENT CR-1/2 PER CENT MO-1/4 PER CENT V STEELS
67-11 M17-80267
ELEVATED-TEMPERATURE TENSILE, CREEP, AND RUPTURE PROPERTIES OF 18 PER CENT CR-8 PER CENT NI, 18 PER CENT CR-12 PER CENT NI-MO, 18 PER CENT CR-10 PER CENT NI-TI, AND 18 PER CENT CR-12 PER CENT NI-NB STEELS 67-11 M17-80268
A PRELIMINARY SURVEY OF THE ELEVATED-TEMPERATURE TENSILE PROPERTIES OF CAST CARBON STEELS
67-11 M17-80269
THE HIGH-TEMPERATURE PROPERTIES OF A MN-CR-MO-V NORMALIZED AND TEMPERED STEEL--DUCOL W30
67-11 M17-80270
PROPERTIES OF TWO HIGHLY ALLOYED MARTENSITIC STAINLESS STEELS AND A PRECIPITATION-HARDENED AUSTENITIC STAINLESS STEEL IN THE TEMPERATURE RANGE 500 TO 700 C 67-11 M17-80275
IMPROVED BOILER-PLATE STEELS 67-11 M17-80277
THE EFFECT OF CARBON, NITROGEN, AND BORON ON ELEVATED-TEMPERATURE PROPERTIES
67-11 M17-80282

PROOF STRESS, ALLOYING EFFECTS
PROBLEMS ASSOCIATED WITH USE OF COPPER-ALLOY CASTINGS IN MARINE SERVICE 67-08 M17-74901
NEW AUSTENITIC STAINLESS STEELS
67-08 M17-75101

PROOF STRESS, HEATING EFFECTS
EFFECT OF HEAT TREATMENT ON THE STRUCTURE, MECHANICAL PROPERTIES AND CORROSION CHARACTERISTICS OF VTZ-1 ALLOY
67-12 M10-82190

PROOF STRESS, TEMPERATURE EFFECTS
THE EFFECT OF STRAINING AT 100-500 C. ON THE ROOM TEMPERATURE MECHANICAL PROPERTIES OF CARBON STEELS 67-06 M17-70838

PROPAGATION
SEE CRACK PROPAGATION

PROPELLANT TANKS, MATERIALS
CAST STAINLESS ON TARGET FOR MOON SHOT
67-04 M15-67073

PROPELLANTS, CORROSION ENVIRONMENTS
A CASE HISTORY OF TITANIUM STRESS CORROSION IN NITROGEN TETROXIDE 67-01 M18-58728

PROPELLER SHAFTS
SEE SHAFTS /POWER/

PROPELLERS, MATERIALS
EFFECT OF ALLOYING ELEMENTS ON THE CAVITATION RESISTANCE OF CHROMIUM-MANGANESE STEEL
67-02 M18-59953

PROPELLERS, WELDING
HARD SURFACING OF SHIP SCREW PROPELLERS WITH STAINLESS STEEL 67-08 M11-74380
SURFACING SHIPS PROPELLORS WITH STAINLESS STEEL
67-12 M11-82253

PROPERZI PROCESS
SEE CONTINUOUS CASTING

PROPORTIONAL LIMIT
PROPORTIONAL-LIMIT STRESS OF TUNGSTEN SINGLE CRYSTALS 67-01 M17-57430
ROOM-TEMPERATURE CREEP AND FATIGUE PROPERTIES OF TITANIUM ALLOYS 67-06 M17-70685

PROPORTIONAL LIMIT, IMPURITY EFFECTS
GRAIN SIZE DEPENDENCE OF THE YIELD STRESS AND THE FLOW STRESS IN PURE IRON 67-06 M17-70788

PROPORTIONAL LIMIT, TEMPERATURE EFFECTS
THE EFFECT OF TEMPERATURE ON THE YIELD STRESS OF COMMERCIAL PURITY ALPHA-TITANIUM
67-06 M17-72226
MECHANICAL AND FORMING PROPERTIES OF INGOT BERYLLIUM SHEET 67-07 M17-73761

PROPORTIONING /MIXING/, AUTOMATION
BLAST FURNACE CHARGING 67-07 M04-73327

PROPULSION SYSTEMS
SEE ALSO ELECTRIC PROPULSION
NUCLEAR PROPULSION
TOUGH AEROSPACE JOB REQUIRES UNUSUAL EDM APPROACH
67-05 M08-68446
ALKALI-METAL, RANKINE-CYCLE POWER SYSTEMS FOR ELECTRIC PROPULSION 67-10 M20-79732

PROPULSION SYSTEMS, MATERIALS
REFRACTORY METALS IN AEROSPACE PROPULSION
67-04 M20-66117

PROSTHETICS
ON THE FUNDAMENTAL TECHNIQUE OF FOIL METALLURGY
67-02 M11-59745
INVESTIGATION OF THE POSSIBILITY OF USING TITANIUM ALLOYS FOR SURGICAL INSTRUMENTS AND APPARATUS AND METHODS FOR JOINING TISSUES
67-02 M17-59900
REQUIREMENTS FOR METALLIC SURGICAL IMPLANTS AND PROSTHETIC DEVICES 67-06 M17-70121
CORROSION-RESISTANT ALLOYS IN CHLORIDE SOLUTIONS--MATERIALS FOR SURGICAL IMPLANTS
67-06 M18-70694
FAST PRODUCTION METHOD FOR ONE-OF-A-KIND CASTINGS
67-09 M06-78170
BIOMECHANICAL APPRAISAL OF METALLIC OSTEOSYNTHESIS
67-09 M20-76635
SOME APPLICATIONS OF EXPLOSIVE FORMING
67-10 M20-78600
FACTORS INDLUENCING THE MARGINAL ADAPTATION OF AMALGAM 67-12 M20-82643

PROSTHETICS, BONDING
SOME PHYSICAL PROPERTIES OF SILVER-TIN AMALGAMS
67-12 M20-82279

PROSTHETICS, MECHANICAL PROPERTIES
STUDIES ON A NEW DENTAL CASTING GOLD ALLOY
67-12 M20-82278
CREEP AND SAG PROPERTIES OF A PORCELAIN-GOLD ALLOY
67-12 M20-82358

PROTACTINIUM, DIFFUSION
DIFFUSION OF THORIUM, PROTACTINIUM AND URANIUM IN FACE-CENTERED CUBIC THORIUM
67-07 M14-74235

PROTACTINIUM, EXTRACTION
SOLVENT EXTRACTION OF PROTACTINIUM, NIOBIUM AND TANTALUM FROM CITRATE SOLUTIONS
67-07 M03-73899

PROTECTION
SEE CORROSION PREVENTION
IMPRESSED CURRENT PROTECTION
METAL PROTECTION
RUST PREVENTION
PROTECTIVE ATMOSPHERES
SEE CONTROLLED ATMOSPHERES
PROTECTIVE COATINGS
EXTRACTION METALLURGY 67-01 M01-58663
COATING, MANUFACTURING SEQUENCE AND COMPONENT DESIGN INTEGRATION 67-01 M12-57987
COATINGS OF HIGH-TEMPERATURE MATERIALS 67-01 M12-58001
COATINGS OF HIGH-TEMPERATURE MATERIALS. PT. 1 67-01 M12-58002
PROPERTIES OF COATED REFRACTORY METALS. PT. 2 67-01 M12-58003
COATINGS ON REFRACTORY METALS. PT. 3 67-01 M12-58004
THE FLAME-SPRAYING OF NONMETALLIC PROTECTIVE LAYERS. PT. 8 264 67-01 M12-58437
NEW BONDERIZED STEEL SHEET 67-01 M12-58555
COLD PHOSPHATING OF STEEL 67-01 M12-58791
CORROSION AND PROTECTION OF METALS 67-01 M18-58201
CORUNDIZATION--A NEW PROTECTIVE METHOD FOR ANNEALING AND HARDENING VESSELS OF CHROMIUM-NICKEL STEEL AGAINST SULFURIZATION AND CARBURIZATION 67-01 M18-58721
COMBATTING WEAR PROBLEMS IN WIRE DRAWING OPERATIONS 67-02 M08-58974
REDUCTION OF TARNISHING OF ELECTROPLATED SILVER 67-02 M12-59046
THE PLASTIC COATING OF METAL PARTS BY FLAME SPRAYING 67-02 M12-59415
CONTINUOUS LACQUERING OF GALVANIZED STEEL BANDS 67-02 M12-60140
SOME EXAMPLES OF THE USE OF FLAME-SPRAYED COATINGS FOR PROTECTION AGAINST HOT GASES 67-02 M12-62026
ON THE STRESS-CORROSION RESISTANCE OF SILICON BRASS WITH AND WITHOUT SURFACE PROTECTION BY ELECTROPLATING 67-02 M18-59972
THE EFFECTIVENESS OF SPRAYED CERAMIC FILMS AS A PROTECTION AGAINST OXIDATION OF STEEL 67-02 M18-60282
CONTROL OF HEARTH REFRACTORY DECOMPOSITION IN IDLE BASIC OPEN HEARTH FURNACES 67-03 M04-65515
DECORATIVE PLATING IN THE GERMAN MOTORCAR INDUSTRY 67-03 M12-65150
ELECTROPOLISHING AS A PRETREATMENT TO THE APPLICATION OF PLASTIC-BASED PAINTS ON METALLIC BASES OF VARYING COMPOSITION 67-03 M18-65177
COATED COLUMBIUM ALLOYS FOR JET ENGINE TURBINE VANES 67-03 M18-65621
SURFACE PROTECTION BY METAL DIFFUSION 67-03 M18-65706
COATING OF BOLTS TO PREVENT SEIZURE 67-03 M18-65986
NEW COATINGS CAN CUT PAINT MAINTENANCE 67-04 M12-66593
METALLIZING AND CORROSION PROTECTION OF INDUSTRIAL EQUIPMENT 67-04 M12-66597
POLYMER COATING OF THE INTERNAL SURFACE IN PIPES 67-04 M12-66817
COATERS GO TO THE WELL 67-04 M12-68151
RETARDATION OF THE OXIDATION RATES OF NIOBIUM, TANTALUM AND TUNGSTEN BY FLUORIDE COATING 67-04 M18-66164
ELECTRODEPOSITED PAINT PROTECTS SHARP EDGES 67-05 M12-66679
DECORATIVE AND PROTECTIVE FINISHES PRODUCED ON ALUMINIUM BY HARD ANODIZING 67-05 M12-68814
PROTECTION OF STRUCTURAL STEEL BY FLAME-SPRAYED METALS AND PAINTS 67-05 M12-68820
CORROSION PROTECTION THROUGH PAINTING, PLASTIC COATINGS AND FOIL BACKINGS 67-05 M12-69035
SPRAYED ZINC FINISH--LONGER FURNITURE LIFE 67-05 M12-69875
SURFACE HARDENING, CORROSION AND SCALING PROTECTION OF STEEL BY METALLIC SURFACE IMPREGNATION 67-05 M18-68734
INVESTIGATION OF THE POSSIBLE PREVENTION OF THE STRESS CORROSION OF BRASS BY NONMETALLIC INORGANIC AND ORGANIC COATINGS 67-05 M18-68921
EPOXY SURFACE COATINGS 67-05 M18-68922
THE FLAME SPRAYING OF NONMETALLIC PROTECTIVE COATINGS. PT. 8 67-05 M18-68923
CORROSION PROTECTION THROUGH BLUEING AND BLACKING 67-05 M18-69104
PROTECTIVE COATINGS HELP TO EXTEND JET ENGINE PART LIFE 67-06 M12-70472
NEW COATINGS FOR ZINC 67-06 M12-70727
CORROSION OF MILD STEEL DUE TO IMPINGEMENT IN THE MAKE-GAS STREAM 67-06 M18-70544
CORROSION PROBLEMS ON FINNED AIR-COOLED HEAT EXCHANGER TUBING 67-06 M18-70546
THICK FILM COATED TUBING. INTERNAL COATINGS FOR OIL FIELD TUBULAR GOODS 67-06 M18-71226
PROTECTION WITH MORTAR COATINGS. COATING THICKNESS GOVERNS DEGREE OF PROTECTION 67-06 M18-71230
EVALUATION OF ZINC SURFACES FOR COATING INDUSTRIAL PRODUCTION LINE PRODUCTS 67-07 M12-72992
THE PREVENTION OF METAL PART FAILURE BY THE USE OF PROTECTIVE COATINGS 67-07 M12-74244
ZINC SILICATE COATINGS FOR STEEL 67-08 M12-74615
CLEANING AND MAINTENANCE OF SURFACES 67-08 M12-74860
PREVENTION OF CORROSION 67-08 M18-74601
PROTECTING TITANIUM ALLOYS AGAINST OXIDATION 67-08 M18-75096
MINISTRY OF WORKS CURRENT PRACTICE FOR THE PROTECTION OF STEELWORK ON BRIDGES AND POWER SCHEMES 67-08 M18-76199
PROTECTIVE COATINGS FOR GALVANIZED STEEL 67-10 M12-78525
PROTECTIVE COATINGS FOR METALS 67-11 M12-80801
METHODS OF PRESERVING AND PACKING METALWARE BEING TRANSPORTED TO TROPICAL CLIMATES 67-12 M18-81878
METALLIZED ZN COATINGS FOR CORROSION PROTECTION OF STEEL IN SEA WATER 67-12 M18-82353
THE PRESENT STATE OF DEVELOPMENT OF METAL SPRAYING TECHNIQUES. PT. 4 67-12 M18-82465
STRUCTURE AND GROWTH OF THIN FILMS ON METALS EXPOSED TO OXYGEN .67-12 M18-82891
PROTECTIVE COATINGS, AEROSPACE
REFRACTORY COATINGS FOR AEROSPACE APPLICATIONS 67-04 M12-66126
PROTECTIVE COATINGS, COATING
CHROMIZING MOLYBDENUM FOR GLASS SEALING 67-02 M12-60698
PROTECTIVE COATINGS, CORROSION
LACQUERING, COATING AND LAMINATION OF WIDE STRIP 67-01 M12-58111
ANTI-CORROSIVE TREATMENT FOR THE SEVERN BRIDGE 67-01 M18-58511
USE OF MULITLAYER COATINGS FOR CORROSION PROTECTION OF SPRINGS IN WATER AT HIGH 67-01 M18-58706
PREVENTION OF TARNISHING OF SILVER SURFACE 67-01 M18-58710
PROTECTIVE DIFFUSION COATING OF NICKEL ALLOYS 67-01 M18-58711
THE BEHAVIOR OF VARIOUS COATINGS ON TUBULAR DOLPHINS IN SEA WATER 67-02 M18-59107
CORROSION RESISTANCE OF COATING COMPOSED OF ZINC AND OTHER METALS--CORROSION PREVENTION OF TRACK MATERIALS 67-02 M18-59159
IMPROVEMENTS IN THE CORROSION RESISTANCE OF ELECTROPLATED LAYERS OF THE CU-NI-CR SYSTEM FOR USE IN THE AUTOMOTIVE INDUSTRY 67-02 M18-60032
THE EFFECTS OF THE CONDITIONS OF ELECTROLYSIS ON THE FORMATION OF ELECTRODEPOSITED NUCLEI 67-02 M18-60279
THE MECHANISM OF PROTECTION BY ORGANIC COATINGS 67-03 M18-65153
PROTECTION OF STEEL BY METAL SPRAYING.. A REVIEW 67-03 M18-65993
STAINLESS STEEL PIGMENTED COATINGS 67-04 M12-66800
IMPROVEMENT IN CORROSION RESISTANCE OF DECORATIVE NICKEL-CHROMIUM DEPOSITS 67-04 M18-66721
HOT DIP GALVANIZING AS CORROSION PROTECTION 67-07 M18-73232
THE CORROSION PROTECTION OF STEEL STRUCTURES BY SPRAY GALVANIZING 67-07 M18-73233
CORROSION BEHAVIOR OF ZINC DUST-CONTAINING PAINTS AND OF HOT DIP GALVANIZED COATINGS IN INDUSTRIAL ATMOSPHERES 67-07 M18-73236
OXIDATION PROTECTION OF BERYLLIUM AT HIGH TEMPERATURES 67-07 M18-73752
PROTECTIVE COATINGS FOR REFRACTORY MATERIALS 67-08 M12-75862

A SYSTEMATIC INVESTIGATION OF THE POSSIBILITY OF PREVENTING THE STRESS CORROSION OF BRASS BY ELECTROLYTIC COATING. PT. 2. DISCUSSION AND EVALUATION OF EXPERIMENTAL RESULTS 67-08 M18-75669
TEST ON PROTECTIVE COATINGS FOR POWER TRANSMISSION TOWERS. PT. 3 67-08 M18-76250
ANTICORROSION PROTECTION OF STEEL TUBES BY VARNISH COATINGS 67-08 M18-76280
NEW ACCELERATED METHODS FOR TESTING THE CORROSION RESISTANCE OF SURFACE-PROTECTED STEEL SHEET. PT. 2. CORROSION TESTING OF PHOSPHATIZED PAINTED STEEL USING THE IMMERSION PROCESS 67-09 M18-77193
SURFACE SEALING OF MAGNESIUM ALLOY COMPONENTS OPERATING UNDER MARITIME CONDITIONS 67-09 M18-77199
PAINTING HOT DIP GALVANIZED SHEET--EXPERIMENTAL RESULTS IN DIFFERENT ATMOSPHERES 67-09 M18-77660
PROTECTIVE VALUE OF METALLIC COATINGS AND COATING THICKNESS REQUIRED 67-09 M18-78024
SOME NEW APPROACHES TO THE USE OF LEAD IN THE CONSTRUCTION OF CHEMICAL PIPES AND CONTAINERS 67-09 M20-76614
MAGNESIUM CORROSION PROBLEMS 67-10 M18-78461
PROTECTING REFRACTORY METALS AGAINST OXIDATION 67-10 M18-79374

PROTECTIVE COATINGS, CORROSION TESTS
CORROSION AND THE DETERMINATION OF THE EFFECTIVENESS OF CORROSION PROTECTION, PT. 2 67-06 M18-71179

PROTECTIVE COATINGS, MECHANICAL PROPERTIES
FLAME-SPRAYED COATINGS. PT. 1 67-07 M12-74162
THE EROSION OF DEPOSITED METALS BY STREAMS OF ABRASIVE SUBSTANCES 67-07 M17-73426

PROTECTIVE COATINGS, OXIDATION
OXIDATION-RESISTANT COATINGS FOR REFRACTORY METALS 67-02 M12-61902
CALORIZING OF NICKEL BY A CIRCULATORY METHOD 67-02 M12-61988
ALUMETIZING OF NICKEL BY THE CIRCULATION METHOD 67-10 M12-78845

PROTECTIVE COATINGS, RADIATION EFFECTS
RADIATION EFFECTS ON PAINTS--EFFECTIVE COATINGS VITAL TO NUCLEAR INDUSTRY 67-05 M16-68794

PROTECTIVE COATINGS, REACTIONS /CHEMICAL/
OXIDATION STUDIES OF COMPLEX SILICIDES FOR PROTECTIVE COATINGS 67-08 M18-75520

PROTECTIVE COATINGS, SORPTION
SORPTION AND PROTECTIVE PROPERTIES OF ANODIC OXIDE FILMS ON ALUMINUM AFTER FILLING THEM WITH WATER 67-11 M14-81290

PROTECTIVE COATINGS, THIN FILMS
RECENT ELECTROPLATING RESEARCH IN LITHUANIA 67-03 M12-65657

PROTECTIVE COATINGS, WELDING
SPOT AND ROLL WELDING OF LOW-CARBON PROTECTIVE-COATED STEELS 67-01 M11-58214

PROTON ACCELERATORS
SEE CYCLOTRONS

PROTONS
SCATTERING OF 5-40 KEV PROTONS BY MOLYBDENUM SINGLE CRYSTALS 67-11 M16-81371

PSYCHROMETERS
DETERMINING THE DEGREE OF UTILIZATION OF HYDROGEN IN THE BLAST FURNACE 67-04 M04-66202

PSYCHROMETRY
SEE PSYCHROMETERS

PULLING /CRYSTALS/
SEE CRYSTAL PULLING

PULSATION WELDING
PULSED-ARC WELDING OF ALUMINUM ALLOYS IN ARGON 67-01 M11-58275
STABILITY OF PULSED-ARC WELDING WITH CONSUMABLE ELECTRODE 67-02 M11-59515
A CONTINUOUS COMBINED PULSE GENERATOR FOR MICROWELDING 67-02 M11-59789
PULSATION LASER WELDING--A REVIEW 67-02 M11-60129
A PULSED ARC WELDING APPARATUS 67-02 M11-60785
PULSE ARC WELDING OF AT3 TITANIUM ALLOY 67-02 M11-61255
INVESTIGATION OF THE TECHNOLOGICAL POTENTIALITIES OF PULSATION WELDING 67-02 M11-61260
PULSED ARC WELDS ALUMINIUM BARRELS 67-03 M11-65674
THE PULSED ARC WELDING OF AT3 TITANIUM ALLOY 67-04 M11-66527
PROGRAMMING FOR PULSED ARC WELDING OF TUBES 67-04 M11-67006
THE ARGON SHIELDED PULSED ARC WELDING OF ALUMINIUM ALLOYS 67-04 M11-67356
PULSED LASER BEAM WELDING 67-04 M11-67669
PULSED ARC WELDING OF LEAD 67-04 M11-67807
AN INVESTIGATION INTO THE TECHNOLOGICAL POSSIBILITIES OF THE PULSED ARC 67-05 M11-68260
PULSED ARC WELDING OF LEAD 67-06 M11-70307
FUNDAMENTALS OF MAGNETIC PULSE WELDING 67-06 M11-71218
PROCESSES OCCURRING DURING THE PULSATION WELDING OF STEEL 67-06 M11-71718
STATE OF DEVELOPMENT IN THE FIELD OF STUD WELDING 67-06 M11-72065
ARGON SHIELDED PULSE WELDING OF TITANIUM ALLOYS OF SMALL THICKNESS 67-07 M11-72739
THE PULSED INERT GAS METAL-ACR WELDING 1 IN. THICK TITANIUM 721 ALLOY 67-07 M11-74281
NEW MIG PROCESS WELDS THIN ALUMINUM WITH THICK WIRE 67-08 M11-74730
TEMPERATURE DISTRIBUTION IN THE MOLTEN POOL IN PULSED ARC WELDING OF AMG6 ALLOYS WITH CONSUMABLE ELECTRODE 67-08 M11-75418
METAL INERT GAS WELDING WITH PULSATING CURRENT 67-08 M11-75786
AUTOMATIC TIG WELDING OF ALUMINIUM ALLOYS IN THE VERTICAL POSITION 67-09 M11-77240
WELDING OF AL AND ITS ALLOYS 67-10 M11-79795
TEMPERATURE DISTRIBUTION IN THE MOLTEN METAL POOL DURING THE VIBROARC WELDING OF AMG6 ALLOY WITH A CONSUMABLE ELECTRODE 67-12 M11-82039
PULSED ARGON ARC WELDING OF THIN TITANIUM ALLOYS 67-12 M11-82318
SOME CHARACTERISTICS OF PULSATION ARC WELDING WITH CONSUMABLE ELECTRODE IN ARGON 67-12 M11-82623

PULSATION WELDING, AUTOMATION
PROGRAMMING THE CONDITIONS FOR PULSATING ARC WELDS ON PIPES 67-08 M11-74765

PULSE COUNTERS
SEE ELECTRICAL MEASUREMENTS MEASURING INSTRUMENTS

PULSE HEATING
HIGH-SPEED HEATING OF CARBON AND ALLOY STEEL 67-06 M10-70103
PULSE ANNEALING OF GOLD 67-11 M14-80778

PULVERIZATION
SEE GRINDING /COMMINUTION/

PULVERIZERS
SEE GRINDING MILLS

PULVERIZING
SEE GRINDING /COMMINUTION/

PUMPING /OPTICAL/
SEE OPTICAL PUMPING

PUMPS
SEE ALSO AXIAL FLOW PUMPS
GEAR PUMPS
VACUUM PUMPS
VANE PUMPS
ELECTROSLAG WELDING HELPS ESCO FABRICATE LARGEST STAINLESS NUCLEAR PUMPS 67-06 M11-71038
COPPER ALLOYS IN PUMP CONSTRUCTION 67-12 M01-83210
SINTERED COMPONENTS OF G12-2 DOUBLE-ACTING VANE PUMPS 67-12 M09-82790

PUMPS, BRAZING
VACUUM BRAZING--WHEN AND HOW 67-07 M11-72798

PUMPS, CASTING
CASTING PUMP ROTOR WHEELS OF BR. ONF 9-2.5-0.2 BRONZE ALLOY IN SAND MOLDS 67-12 M06-81989

PUMPS, MATERIALS
CERMET PARTS OF VANE DOUBLE-ACTING MODEL G12-2 PUMP 67-06 M09-71469
INVESTIGATION OF SHRINKAGE IN SINTERED CHROMIUM STEEL 67-06 M09-72322

PUMPS, MECHANICAL PROPERTIES
INTERGRANULAR FAILURE OF AUSTENITIC STEEL PUMP SPINDLE 67-08 M17-74508

PUMPS, WEAR
THIN-WALLED CHANNELS OF A LINEAR INDUCTION PUMP FOR THE TRANSFER OF MOLTEN ALUMINUM 67-06 M03-70374

PUNCHING
A NEW DEVICE FOR PIERCING LARGE UPSET FORGINGS ON STEAM-HYDRAULIC PRESSES 67-01 M07-57249
PUNCHING GETS AROUND DIE WEAR 67-01 M07-58487
COLD STAMPING OF THIN SHEET STEEL AND NONFERROUS

PUNCHING
METALS 67-02 M08-60679
ONE PRESS--MANY TALENTS 67-05 M07-68811
WEAR ON SHEARING TOOLS--WEAR ON CUTTING EDGES OF BLANKING TOOL FOR SQUARE PARTS 67-06 M17-72264
PUNCHING HARDENED SHEET STEEL 67-08 M08-74557
CYLINDER BLOCK CASTINGS DEFINNED ON TRANSFER MACHINE 67-09 M07-78034
DEVELOPMENTS IN DIE PUNCHING TECHNOLOGY. PT. 3 67-09 M08-77944
TECHNOLOGY OF SHEET METALWORKING. PT. 9 67-09 M08-77946
PUNCHING, AUTOMATION
THREE AXIS PLATE PUNCHING 67-09 M08-77697
PUNCTURING
SEE PIERCING
PURGING
PURGING OTSSN3-7-5-1 BRONZE WITH NITROGEN AND WITH FLUX POWDERS IN A NITROGEN STREAM 67-01 M06-57321
A COMBINATION METHOD OF WELDING THE BUTTS OF STEEL PIPES 67-02 M11-62169
A COMBINED METHOD OF MAKING BUTT WELDS IN STEEL PIPING 67-04 M11-67173
PURGING, WELDING
EFFECTS OF NITROGEN AND HELIUM SHIELDING MIXTURES ON SEMIAUSTENITIC STAINLESS STEEL WELDS 67-10 M11-79952
PURIFICATION
THE PRODUCTION OF PURE IRON AND FERROUS ALLOYS 67-01 M04-57380
ULTRAPURE BORON FROM HALIDE INTERMEDIATES 67-01 M05-58404
ELECTROMAGNETIC SEPARATION OF FESN2 CRYSTALS FROM LIQUID TIN 67-02 M03-59881
PURIFICATION OF COPPER BY THE ZONE MELTING METHOD 67-02 M03-60819
ZONE PURIFICATION OF STRONTIUM NITRATE 67-02 M03-61551
NEW METHOD OF PURIFYING IRON BY ELECTROTRANSPORT IN FERROUS OXIDE 67-02 M04-58924
USE OF CERMET FILTERS FOR PURIFYING SAMPLES OF OPEN-HEARTH FURNACE FLUE GASES 67-02 M09-62215
COLUMBIUM METAL BY THE ALUMINOTHERMIC REDUCTION OF CB2O5 67-03 M03-65007
THE ELECTRON BOMBARDMENT SMELTING FURNACE OF LA CIE PECHINEY 67-03 MC3-65194
CONTRIBUTION TO THE STUDY OF THE PURIFICATION OF BERYLLIUM BY SUBLIMATION AND DISTILLATION 67-03 M03-65241
INFLUENCE OF AN ELECTRIC FIELD ON THE PURIFICATION OF METALS BY ZONE MELTING--APPLICATION TO PURIFICATION OF BERYLLIUM 67-03 M03-65245
INTERACTION OF IMPURITIES DURING PURIFICATION BY ZONE MELTING--APPLICATION TO THE IMPROVEMENT OF THE PURIFICATION OF BERYLLIUM BY SCAVENGERS 67-03 M03-65246
PURIFICATION OF BERYLLIUM BY EXTRACTION FROM A METALLIC SOLVENT 67-03 M03-65247
ULTRAPURIFICATION 67-04 M03-67245
THE SELECTIVE PURIFICATION OF NICKEL BATHS 67-04 M12-67798
FREEING MERCURY FROM IRON 67-05 M03-68410
THE PREPARATION OF PBTE CRYSTALS 67-06 M14-71141
HIGH VACUUM PURIFICATION OF NIOBIUM AND TANTALUM AND ITS INFLUENCE ON THE ELECTRIC RESISTIVITY 67-06 M15-71668
PREPARATION OF PURE ZIRCONYL COMPOUNDS FROM ZIRCON CAUSTIC FRIT 67-07 M02-73823
AUTOMATIC SEPARATION OF CU FROM NICKEL ELECTROLYTE IN FLUID BED CEMENTATORS 67-07 M03-73410
THE PURIFICATION PLANT FOR CONCENTRATES AT THE CENTRO NACIONAL DE ENERGIA NUCLEAR JUAN VIGON 67-07 M03-74098
PREPARATION OF HIGH-PURITY BERYLLIUM COMPOUNDS BY SOLVENT EXTRACTION 67-07 M03-74296
ELECTROMAGNETIC CHARGING OF MOLTEN METAL TO IMPROVE THE PURITY OF CASTINGS 67-07 M06-74043
THE ELECTRICAL RESISTIVITY OF PB AND ZN COMPOUNDS. A CONTRIBUTION TO THE PROBLEM OF ELECTRIC GAS PURIFICATION 67-08 M03-74445
PURIFICATION OF TUNGSTEN HEXACHLORIDE 67-09 M03-77691
PURIFICATION OF RAW MATERIALS 67-10 M02-79989
SEPARATION AND PURIFICATION OF THORIUM FROM EGYPTIAN MONAZITE SANDS 67-10 M03-79053
ELECTRON-BEAM PURIFICATION OF VANADIUM 67-10 M03-79987
THE MELTING OF NI-CR BASE ALLOYS IN A HIGH VACUUM 67-11 M03-80842
THE PURIFICATION OF PLUTONIUM BY ANION EXCHANGE IN NITRIC ACID 67-11 M16-80196
PURITY
INVESTIGATION OF THE ELECTRICAL AND SUPERCONDUCTIVE PROPERTIES OF METALS OF DIFFERENT PURITIES. PT. 3 67-02 M16-58925
THE IMPORTANCE OF PURITY IN PROCESSING TUNGSTEN CARBIDE 67-05 M08-68804
A STUDY OF THE TWO PURITY CRITERIA OF ZIRCONIUM 67-10 M13-79875
PUSHER FURNACES
CZECHOSLOVAK INDUSTRIAL FUEL FURNACES 67-02 M06-60918
EXISTING AND FUTURE DESIGNS OF SLAB REHEATING FURNACES 67-10 M10-78332
PUSHER TYPE MUFFLE FURNACES
SEE PUSHER FURNACES
PYCNOMETRY
APPLICATION OF MERCURY POROSIMETRY TO REFRACTORY MATERIALS 67-09 M15-77964
PYLONS
SEE TOWERS
PYRAMID HARDNESS TESTS
SEE KNOOP HARDNESS TESTS
PYRITE, BENEFICIATION
STUDY OF AUTOCLAVE LEACHING OF SULFIDE MINERALS 67-02 M02-59852
EFFECT OF PULP DENSITY ON PYRITE FLOTATION 67-02 M02-61602
SPHALERITE DEPRESSION IN PYRITIC CONCENTRATES 67-02 M02-61699
WORKING OF NONFERROUS METALLIFEROUS CINDERS INTO IRON ORE PELLETS BY LDK PLANT 67-06 M02-70852
HOW SELECTIVE FLOTATION RECOVERS FOUR MINERALS--CHALCOPYRITE, GALENA, SPHALERITE AND PYRITE 67-07 M02-73214
THE OXIDATION CONDITIONS OF GOLD CONTAINING ARSENICAL PYRITES 67-09 M02-76948
THE EFFECT OF THE SORPTION OF LAURYLAMINE ON THE FLOTABILITY OF PYRITE 67-09 M02-77109
POSSIBLE USE OF PYRITE SINTER IN FERROUS METALLURGY 67-12 M02-82481
INVESTIGATION OF THE FLUIDIZED BED SULFATING ROASTING OF PYRITE-COBALT CONCENTRATES 67-12 M02-83019
PYRITE, PELLETING
GRANULATION OF FINE-GRAINED MATERIALS BY VIBRATION 67-06 M02-72102
PYRITE, REACTIONS /CHEMICAL/
THERMAL DECOMPOSITION OF PYRITES 67-02 M14-59535
THEORETICAL BASIS FOR HIGH TEMPERATURE CHLORINATION-ROASTING OF PYRITE CAKES 67-06 M02-71305
PYRITE, REDUCTION /CHEMICAL/
EFFECT OF PH ON THE CONDITION OF THE PYRITE SURFACE 67-08 M02-75086
PYROCERAM
SEE CERAMICS
PYROLYSIS
THERMAL DECOMPOSITION OF PYRITES 67-02 M14-59535
CARBON-COATED CARBIDE PARTICLES FOR NUCLEAR FUEL ELEMENTS 67-02 M16-60713
HEAT TREATING SINTER 67-05 M02-69895
GENERATION OF A TWO-DIMENSIONAL SILICON CARBIDE LATTICE 67-06 M14-71428
MORPHOLOGY AND TEXTURE OF DEPOSITS OF CARBONYL MOLYBDENUM AND TUNGSTEN 67-07 M13-72585
KINETICS OF THERMAL DECOMPOSITION OF LIMESTONE 67-07 M14-72569
VAPOR-PHASE DEPOSITION OF REFRACTORY METALS BY THERMAL DECOMPOSITION OF REDUCTION OF ONE OF THEIR HALIDES 67-08 M12-76214
FORMATION MECHANISM AND STRUCTURAL FEATURES OF PYROLYTIC GRAPHITE 67-08 M14-74417
KINETICS OF THERMAL DECOMPOSITION OF CERUSSITE 67-09 M03-77035
THE PREPARATION OF HIGH-PURITY COLUMBIUM BY THERMAL DECOMPOSITION OF COLUMBIUM PENTACHLORIDE 67-09 M03-77144
PYROMETALLURGY
INVESTIGATION OF THE RATE OF PYROMETALLURGICAL CU REFINING 67-04 M03-67075

SOME HIGH-TEMPERATURE KINETICS PROBLEMS IN PYROMETALLURGY--THE USE AND LIMITATIONS OF CHEMICAL ENGINEERING METHODS 67-07 M14-73469
WETTING OF SOLID CHARGE MATERIAL BY MOLTEN SULFIDES AND ITS EFFECT ON CERTAIN PYROMETALLURGICAL PROCESSES 67-08 M03-75090
THE WORCRA PROCESSES FOR CONTINUOUS SMELTING AND REFINING 67-10 M01-78771
FLUIDIZED BED ROASTING OF GOLD-ARSENIC CONCENTRATES WITH THE PURPOSE OF DEARSENIZATION 67-11 M03-80752
TEMPERATURE MEASUREMENT IN FOUNDRY 67-11 M06-80529

PYROMETERS
SEE TEMPERATURE MEASURING INSTRUMENTS

PYROMETRY
SEE TEMPERATURE MEASURING INSTRUMENTS

PYRRHOTITE, BENEFICIATION
MILLING A GOLD-BEARING PYRRHOTITE ORE AT DELNITE MINES 67-07 M02-73822

PYRRHOTITE, THERMODYNAMICS
THERMODYNAMICS OF PYRRHOTITE IN THE TEMPERATURE RANGE OF 800 TO 1100 C 67-09 M15-77993

QUALITATIVE ANALYSIS
ANALYSIS OF NONMETALLIC PRODUCTS BY X-RAY FLUORESCENCE SPECTROMETRY 67-02 M19-60872
X-RAY MICROANALYSIS IN CHEMISTRY 67-04 M19-67765
CHEMISTRY 67-08 M01-75701
RAPID ANALYSIS IN METALLURGY BY MEANS OF THE BÉTA-BACKSCATTERING METHOD 67-12 M19-82281

QUALITY CONTROL
DIRECT DETERMINATION OF SULFIDIC MOLYBDENUM IN FLOTATION TAILINGS 67-01 M02-57301
FRENCH EXPERIMENTS FOR CONTROLLING THE BLAST FURNACE OPERATION USING A COMPUTER ON LINE 67-01 M04-57501
PROGRESS IN OPEN HEARTH STEELMAKING 67-01 M04-58501
PRECISION OF MALLEABLE CASTINGS 67-01 M06-57471
TECHNICAL AND ECONOMIC CONSIDERATIONS IN PLATE MILL PROCESS CONTROL 67-01 M07-58490
YOU CANT JUST MIG WELD 67-01 M11-57977
HIGH-SPEED PLATING OF INDUSTRIAL NICKEL COATINGS 67-01 M12-57540
AUTOMATIC STRIP THICKNESS REGULATOR 67-01 M19-57679
QUALITY CONTROL PROCEDURES FOR WELDED FEED HEATERS 67-01 M19-57976
BETA RAY THICKNESS MEASUREMENTS OF LIGHT ALLOY TUBES 67-01 M19-57989
QUALITY CONSIDERATIONS IN THE MANUFACTURE OF WROUGHT NON-FERROUS --COPPER AND COPPER ALLOY-- PRODUCTS 67-01 M19-58789
DEVICE FOR CONTROL AND REGULATION OF THE END OF THE SINTERING PROCESS 67-02 M02-59868
QUALITY CONTROL OF STEEL USING LINEAR SHRINKAGE CURVES 67-02 M06-62001
X-RAY CONTROL OF THE WIRE MILL 67-02 M07-59003
A NEW SYSTEM FOR QUALITY CONTROL 67-02 M07-59009
CLASSIFICATION OF HIGH-QUALITY SPOT WELDED ASSEMBLIES 67-02 M11-59170
CHOOSING A PARAMETER FOR CONTROLLING SPOT WELDING IN ALUMINUM ALLOYS 67-02 M11-60829
METHODS OF STATISTICAL QUALITY CONTROL IN ELECTROPLATING SHOPS 67-02 M12-60029
RAPID METHOD FOR THE DETERMINATION OF MAGNETITE IN METALLURGICAL OXIDE MATERIALS 67-02 M19-59506
THE WELDING OF METALS--METHODS OF INSPECTING WELDED JOINTS 67-02 M19-61043
FUSION WELDED 17 STEEL TUBES 67-02 M19-61045
A CONTROL PROCEDURE FOR THE REFINING OF ACID OPEN HEARTH HEATS 67-03 M04-65508
ELIMINATION OF HYDROGEN FROM ACID OPEN HEARTH STEELS 67-03 M04-65510
ACID OPEN HEARTH RESEARCH OVER THE PAST TWENTY YEARS 67-03 M04-65512
A CONTACTLESS METHOD FOR MEASURING SPECIFIC RESISTANCE OF SEMICONDUCTOR PLATES AND EPITAXIAL LAYERS 67-03 M15-65075
RECENT ADVANCES IN NONDESTRUCTIVE TESTING TECHNOLOGY AT HANFORD 67-03 M19-65316
STRIP THICKNESS MEASUREMENT WITH RADIONUCLIDES 67-03 M19-65625
FIBER OPTICS LOOK INTO A WELD 67-03 M19-65765
USE OF CORRELATION ANALYSIS AND COMPUTERS TO STUDY THE PROCESS OF TITANIUM SLAG SMELTING 67-04 M02-67531
METHODS TO IMPROVE COMPOSITION CONTROL IN 200 TON B. O. S. VESSELS 67-04 M04-66110
DISPENSING CUPOLA CHARGE MATERIALS WITH THE AID OF COMPUTERS 67-04 M04-68090
CORRECTION OF CASTING DEFECTS BY STATISTICAL EXPERIMENTS 67-04 M06-66891
PLANT MODERNIZATION AT GEORGE TURTON PLATTS 67-04 M07-66406
SELECTION OF A CONTROL VARIABLE FOR SPOT WELDING ALUMINIUM ALLOYS 67-04 M11-67986
ANODIZING OF ALUMINIUM ALLOYS--METALLURGICAL STRUCTURE FACTORS 67-04 M13-67788
GAMMA-DEFECTOSCOPE RID-21G FOR QUALITY CONTROL OF WELDED JOINTS IN MAINS 67-04 M19-66876
FLAW-MEASURING ULTRASONIC INSPECTION OF SEMIFINISHED METAL PRODUCTS 67-04 M19-67665
QUALITY CONTROL OF WELDED JOINTS 67-04 M19-68019
A MECHANIZED METHOD OF EXPANDING TUBES WITH AUTOMATIC QUALITY CONTROL 67-05 M07-69044
MEASURING THE PERFORMANCE OF COATED ABRASIVES 67-05 M12-68678
INSPECTION OF THE HARDNESS OF RODS IN AN EMID-3 APPARATUS 67-05 M19-68448
CONTROLLING WELD QUALITY BY ULTRASONICS 67-05 M19-68806
VISUAL X-RAY INSPECTION OF WELDED JOINTS 67-05 M19-69046
QUALITY EVALUATION OF MISSILE STRUCTURE SPOT-WELDED JOINTS 67-05 M19-69087
RADIOGRAPHIC CONTROL OF WELDMENTS 67-05 M19-69124
ESTIMATION OF THE SKIN THICKNESS OF RIMMED STEEL INGOTS 67-06 M04-72289
ACCURACY OF MALLEABLE IRON CASTINGS 67-06 M06-70759
INSPECTION AND DESEAMING LINE FOR SEMI-FINISHED ROLLED STEEL 67-06 M07-70243
EFFECT OF TRANSITION PROCESSES IN CONTINUOUS COLD ROLLING ON THE THICKNESS VARIATION OF THE STRIP 67-06 M07-71256
STRAIGHTENING SYSTEM ALSO INSPECTS AUTOMOTIVE PINION SHAFTS 67-06 M08-70681
TECHNIQUES OF METALLOGRAPHIC QUALITY CONTROL OF THE HEAT TREATMENT OF BERYLLIUM BRONZE 67-06 M10-70182
ASPECTS OF QUALITY CONTROL IN HEAT TREATMENT 67-06 M10-71939
INFRARED TEMPERATURE CONTROL GIVES BETTER WELDS 67-06 M11-70004
QUALITY CONTROL CRITERIA FOR ACCEPTANCE TESTING OF CROSS-WIRE WELDS 67-06 M11-70007
IN-PROCESS QUALITY CONTROL OF ULTRASONIC WELDS IN COPPER SHEET 67-06 M11-70303
SOME FEATURES OF QUALITY CONTROL OF CONTACT WELDING USING REFERENCE MATERIAL 67-06 M11-70388
THE BWRA QUALITY MONITOR AND SPOT-WELDING GALVANIZED STEEL SHEET--AN EVALUATION 67-06 M11-71684
CONTROL OF THE TOTAL THICKNESS OF ROLLED STOCK AND OF THE THICKNESS OF ITS STEEL BASE 67-06 M19-70097
TRANSMITTER FOR CONTROLLING THE PARAMETERS OF HOT ARTICLES 67-06 M19-70150
A NEW DIGITAL WIDTH GAGE FOR THE METALS INDUSTRY 67-06 M19-71001
COMBINED USE OF ULTRASONICS AND RADIOGRAPHY FOR THE QUALITY CONTROL OF PIPE WELDS, WITH SPECIAL REFERENCE TO AUTOMATION 67-06 M19-72128
PRODUCTION AND QUALITY OF BASIC OXYGEN ALLOY STEELS 67-07 M04-73096
QUALITY IN ELECTRON BEAM WELDING 67-07 M11-73887
SEMI-AUTOMATIC CO2 WELDING OF PIPELINES 67-07 M11-73888
STUDIES IN MULTIPLE PROJECTION WELDING 67-07 M11-73890
CONTACTLESS METHOD FOR MEASURING THE SPECIFIC RESISTANCE OF SEMICONDUCTOR PLATES AND EPITAXIAL LAYERS 67-07 M15-72966
TESTING ELECTRODEPOSITED COATINGS 67-07 M19-72402
CONTROL OF PRODUCT QUALITY IN THE WROUGHT ALUMINUM INDUSTRY 67-07 M19-74009

QUALITY CONTROL
QUALITY CONTROL OF ELECTROLYTIC TOUGH PITCH COPPER 67-08 M03-74780
IMPROVING THE QUALITY OF SEMIKILLED STEEL 67-08 M04-76272
IMPROVING THE QUALITY OF INGOTS BY PERFECTING THE CONFIUGRATION OF FEEDER HEADS 67-08 M04-76274
PROCESS APPLICATION ANALYSIS FOR MIG WELDING 67-08 M11-75750
HIGH-ENERGY SECONDARY RADIATION IN METALLURGY FOR FLAW DETECTION 67-08 M19-74868
AUTOMATION AND PROCESS CONTROL OF BLAST FURNACES AND OXYGEN-BLOWN STEEL WORKS 67-09 M04-77579
CONTROL OF QUALITY IN STEELMAKING 67-09 M19-76416
PROBLEMS ASSOCIATED WITH WEIGHING IN STEELMAKING SHOPS 67-09 M19-76420
POSSIBILITIES OF ERRORS AND FLAWS IN THE HEAT TREATMENT OF TOOLS 67-09 M19-76721
NONDESTRUCTIVE INSPECTION TECHNIQUES FOR MULTILAYER CIRCUIT BOARDS 67-09 M19-77102
OPTIMIZATION OF STEEL PRODUCT YIELD. PT. 2 67-09 M19-77380
IMPROVING THE QUALITY OF SEMI-KILLED OR BALANCED STEEL AT THE PETROVSKII WORKS 67-10 M04-79265
IMPROVING HOT TOP DESIGN FOR BETTER QUALITY INGOTS 67-10 M04-79267
INCREASED DEMANDS ON STEEL WIRE ROPES--WAYS OF IMPROVING WIRE QUALITY 67-10 M10-78573
RAPID ANALYTICAL TECHNIQUE FOR STEELMAKING USING PIN SAMPLES AND OPTICAL EMISSION VACUUM DIRECT READING SPECTROMETER 67-10 M19-79439
ISOTOPES AND NUCLEAR RADIATION FOR CONTROL AND AUTOMATION OF FERROUS METALLURGICAL PROCESSES 67-11 M04-81606
INVESTIGATION OF MELTING AND MIXING PROCESSES DURING OPENHEARTH STEELMAKING BY RADIOTRACER TECHNIQUES 67-12 M04-83126
QUALITY CONTROL IN AN ALUMINUM SHEET MILL 67-12 M07-82071
PRODUCTION METHODS FOR DETERMINING GOLD PLATE THICKNESS 67-12 M19-81749
THE NONDESTRUCTIVE TESTING OF MILL PRODUCTS BY A QUANTITATIVE EDDY CURRENT PROCESS 67-12 M19-83149
THE CRITERIA OF QUALITY IN GRAY IRON CASTINGS 67-12 M19-83223
CONTROL OF HEAT TREATMENTS BY ELECTROMAGNETIC METHODS 67-12 M19-83233
PROBELMS AND EXPERIENCE IN THE TESTING OF BALL BEARING TUBES IN A FULLY AUTOMATIC INSTALLATION 67-12 M19-83575
A NONCONTACTING DIGITAL LENGTH/WIDTH GAGE FOR HOT SLABS 67-12 M19-83593
QUALITY CONTROL, STEEL MAKING
MEASURING OXYGEN CONCENTRATION IN METAL IN AN ARC FURNACE BY THE ELECTROMOTIVE FORCE METHOD 67-12 M04-82306
QUANTITATIVE ANALYSIS
SEE ALSO ELECTROLYTIC ANALYSIS
GRAVIMETRIC ANALYSIS
VOLUMETRIC ANALYSIS
THE PRINCIPLES AND METHODS OF CORRECTION ON QUANTITATIVE ELECTRON PROBE MICROANALYSIS 67-01 M19-58557
X-RAY FLUORESCENCE OF BLAST FURNACE SLAGS 67-02 M19-59167
ANALYSIS OF HIGH-PURITY LEAD 67-02 M19-59168
EXAMPLE OF QUANTITATIVE ANALYSES WITH ELECTRON PROBE MICROANALYZER 67-02 M19-59169
ANALYSIS OF NONMETALLIC PRODUCTS BY X-RAY FLUORESCENCE SPECTROMETRY 67-02 M19-60872
EVALUATION OF SOLID METAL SPECIMENS PRODUCED FOR SPECTROGRAPHIC ANALYSIS BY THE INERT-GAS DC-ARC 67-03 M19-65021
QUANTITATIVE DETERMINATION OF ACID-INSOLUBLE ALUMINUM OXIDE AND OTHER INCLUSIONS IN ALUMINUM CASTING ALLOYS 67-04 M19-66149
THE ELECTRON MICROPROBE 67-04 M19-67261
THICKNESS DETERMINATION OF THIN FILMS BY ELECTRON PROBE MICROANALYSIS 67-04 M19-67263
QUANTITATIVE MICROPROBE ANALYSIS OF MICROCRYSTALLINE POWDERS 67-04 M19-67275
DETERMINATION OF TRACE IMPURITIES IN METALS BY SPARK SOURCE MASS SPECTROMETRY 67-04 M19-67599
X-RAY MICROANALYSIS IN CHEMISTRY 67-04 M19-67765
X-RAY-DIFFRACTOMETRIC EXAMINATION OF THE MINERAL COMPOSITION OF BAUXITE 67-05 M03-68791
THE SPECTROPHOTOMETRIC DETERMINATION OF CHROMIUM IN ANODIC POWDERS 67-05 M19-69618
X-RAY FLUORESCENCE ANALYSIS OF RARE-EARTH ALLOYS 67-05 M19-69620
THE SPECTROCHEMICAL DETERMINATION OF ALUMINUM OXIDE IN METALLIC ALUMINUM 67-05 M19-69622
RATIONAL ANALYSIS OF M, FE, FEO, FE3O4 AND FE2O3 IN AN IRON SCALE 67-06 M02-70786
EVALUATION OF QUANTITATIVE ELECTRON MICROPROBE ANALYSES OF MULTIPHASE MICROCRYSTALLINE REFRACTORY MATERIALS 67-06 M19-71430
A METHOD FOR TRACE ANALYSIS WITH AN ELECTRON MICROPROBE 67-06 M19-71431
THE APPLICATION OF THE ZIEBOLD CORRECTION PROCEDURE FOR PROBE DATA TO THREE TERNARY COPPER-BASE ALLOYS 67-06 M19-71432
METHOD FOR DETERMINATION OF VANADIUM IN ALUMINUM AND ALUMINUM ALLOYS 67-06 M19-71443
MASS SPECTROMETRY. CONTRIBUTION TO THE STUDY OF THE ANALYSIS OF ALUMINUM 67-06 M19-72190
STUDY OF MANGANESE BURN-OUT IN CASTING RIMMING STEEL, USING MN52 67-07 M04-73039
SEPARATION PROCEDURE FOR THE ANALYSIS OF SMALL AMOUNTS OF IRON ALLOYS AND THEIR ISOLATED STRUCTURAL CONSTITUENTS 67-07 M19-73027
AN X-RAY FLUORESCENT- SOURCE ABSORPTION SPECTROMETER FOR QUANTITATIVE ELEMENTAL ANALYSIS 67-07 M19-73138
QUANTITATIVE SPECTROSCOPIC ANALYSIS OF METALS USING THE ZEISS INDUSTRIAL SPECTROSCOPE 67-08 M19-74898
A METHOD OF DIRECT DIFFRACTIONAL QUANTITATIVE PHASE ANALYSIS OF ALUMINO-SILICON ALLOYS 67-08 M19-75348
USE OF ALUSCHMELTZTESTER FOR DETERMINING HYDROGEN CONTENT IN AL MELTS 67-08 M19-75378
IMPURITY ANALYSIS OF ALKALI HALIDES BY MASS SPECTROGRAPHY 67-08 M19-75992
STUDY OF THE AMOUNT AND SPREAD OF NONMETALLIC INCLUSIONS IN MECHANICALLY AND CHEMICALLY CAPPED RIMMING STEEL 67-09 M04-76894
ANALYSIS OF THE NONMETALLIC INCLUSIONS IN MAGNETICALLY HARD ALLOYS 67-09 M19-76978
HYDROGEN DETERMINATION IN ALUMINUM AND ALUMINUM ALLOYS BY ANNEALING IN A VACUUM AT 450 TO 600 C 67-09 M19-77032
HANDBOOK OF ANALYTICAL CHEMISTRY. PT. 3. QUANTITATIVE ANALYSIS 67-09 M19-77561
QUALITATIVE X-RAY DIFFRACTION MICROANALYSIS. PT. 2 67-12 M19-82302
A METHOD OF QUALITATIVE LOCAL X-RAY DIFFRACTION 67-12 M19-82303
POLARGRAPHIC ANALYSIS OF CADMIUM AND ZINC IN AN ALLOY OF THESE TWO METALS 67-12 M19-83492
QUANTITATIVE METALLOGRAPHY
SEE ALSO LINEAL ANALYSIS
STUDY OF THE CHANGE IN ELECTRON STRUCTURE OF NI AND ITS ALLOYS WITH GA AND GE DURING DEFORMATION BY THE METHOD OF ELECTRON-POSITRON ANNIHILATION 67-06 M16-71477
QUANTUM ELECTRODYNAMICS
SEE FIELD THEORY
QUANTUM MECHANICS
SEE QUANTUM THEORY
QUANTUM THEORY
MAGNETORESISTANCE AND COUPLED ORBITS IN TIN 67-03 M15-65032
MAGNETORESISTANCE IN THE EXTREME QUANTUM LIMIT IN N-TYPE INSB 67-03 M16-65109
QUANTUM OSCILLATIONS DUE TO HIGHER LYING ELECTRON BANDS IN BISMUTH 67-03 M16-65144
STUDY OF THE CHANGE IN ELECTRON STRUCTURE OF NI AND ITS ALLOYS WITH GA AND GE DURING DEFORMATION BY THE METHOD OF ELECTRON-POSITRON ANNIHILATION 67-06 M16-71477
GIANT QUANTUM OSCILLATIONS OF THE ABSORPTION COEFFICIENT OF ULTRASOUND IN ANTIMONY 67-06 M16-71766
STUDY OF THE CHANGE OF THE ELECTRONIC STRUCTURE OF NICKEL AND ITS ALLOYS WITH GA AND GE IN DEFORMATION BY THE POSITRON-ELECTRON ANNIHILATION METHOD 67-12 M16-82798
QUARTZ, BENEFICIATION
FLOTATION OF GOLD FROM PURE QUARTZ ORES 67-07 M02-72777
HIGH-SPEED ELECTROSEPARATION OF FINE-GRAINED MATERIALS 67-07 M02-72778

QUARTZ, MACHINING
PROPER FLUIDS MEAN BETTER QUARTZ GRIND 67-06 M08-72030
QUARTZ, MECHANICAL PROPERTIES
THERMOELASTIC STRESS PULSES RESULTING FROM PULSED ELECTRON BEAMS 67-10 M17-79410
QUARTZ, MICROSTRUCTURE
TUBULAR QUARTZ ELEMENTS AND THEIR DIMENSIONING 67-01 M20-58234
QUARTZITES, BENEFICIATION
FLOTATION OF OXIDIZED QUARTZITES FROM THE SOUTH ORE-DRESSING PLANTS COMBINE 67-04 M02-67880
STUDY OF INVERSE FLOTATION OF MIKHAILOVSK QUARTZITES WITH AN ANION COLLECTOR 67-04 M02-67933
QUARTZITES, LINERS
POSSIBLE DENSIFICATION OF DRY QUARTZITE MASS IN THE REFRACTORY LINING OF INDUCTION FURNACES 67-05 M04-69313
QUATERNARY SYSTEMS
THE 1200 C. ISOTHERMAL SECTION OF THE PHASE DIAGRAM OF THE QUASITERNARY SYSTEM TIC-NI-CR 67-02 M13-60578
THE QUATERNARY SYSTEM, U-UMN2-UAL2-UFE2 67-02 M13-60877
QUATERNARY SYSTEMS, MICROSTRUCTURE
ON THE STRUCTURE OF URANIUM-MANGANESE-ALUMINUM-IRON ALLOYS WITH CONSTANT URANIUM CONTENT OF 50 AT. PER CENT 67-02 M13-60119
QUATERNARY SYSTEMS, PHASE DIAGRAMS
USING THE MICROHARDNESS METHOD FOR STUDYING QUATERNARY CONSTITUTION DIAGRAMS 67-01 M13-57311
STUDY OF THE LIQUIDUS TEMPERATURES OF THE SYSTEM CAO-P2O-SIO2-IRON OXIDE. PT. 1. 15 PER CENT FEO LEVEL 67-08 M13-76225
QUATERNARY SYSTEMS, PHASE TRANSFORMATIONS
PHASE RELATIONS IN THE SYSTEM FEO-FE2O3-ZRO2-SIO2 67-07 M14-72826
STUDY OF PHASE EQUILIBRIUM IN A PORTION OF THE TI-AL-CR-FE-SI-B SYSTEM 67-09 M13-77298
QUATERNARY SYSTEMS, PHASES /STATE OF MATTER/
STRUCTURAL DIAGRAMS OF THE QUATERNARY 18 PER CENT CR-FE-C-N SYSTEM 67-02 M13-59983
CURRENT REFRACTORIES RESEARCH AND ITS APPLICATIONS 67-03 M04-65932
A NEW QUATERNARY LIWV2O7.5 PHASE 67-05 M14-68920
STUDY OF THE QUATERNARY SYSTEM IN-SB-CD-SN TO DETERMINE THE PHASE EQUILIBRIA IN THE SECTION OF INSB --CDSNSB2-- 67-06 M13-71119
PHYSICOCHEMICAL STUDY OF ALLOYS OF THE NIOBIUM-TUNGSTEN-MOLYBDENUM CHROMIUM SYSTEM 67-06 M14-70164
INVESTIGATIONS OF THE EFFECT OF SILICON OXIDE AND OF THE OXIDATION DEGREE ON THE PHASE BOUNDARIES, IN PARTICULAR OF THE MISCIBILITY GAP, IN THE SYSTEM CAO-P2O5-FEO-FE2O3-SIO2 AT 1600 C 67-07 M14-73282
THE CONSTITUTIONAL DIAGRAM OF THE SYSTEM CAO-FEON-P2O5-SIO2 AT 1600 C 67-07 M14-73283
STUDY OF THE NIOBIUM-ZIRCONIUM-HAFNIUM-CARBON SYSTEM 67-12 M13-83407
QUATERNARY SYSTEMS, PHYSICAL PROPERTIES
AN INVESTIGATION OF THE LIQUID MISCIBILITY GAPS IN THE LEAD-COPPER-IRON-ARSENIC SYSTEM 67-11 M15-81338
QUENCH AGING
THE EQUILIBRIUM COTTRELL ATMOSPHERE AND THE DISCONTINUOUS YIELD IN TANTALUM-OXYGEN 67-04 M17-66069
INVESTIGATION ON THE EFFECT OF A SHORT-TIME RECRYSTALLIZING ANNEALING TREATMENT ON THE MECHANICAL TECHNOLOGICAL PROPERTIES OF UNALLOYED THIN STEEL STRIP, POOR IN CARBON, UNDER PARTICULAR CONSIDERATION OF QUENCH AGING 67-08 M10-75393
THE RELATION BETWEEN DAMPING BEHAVIOR AND CONSTITUTIONAL OF QUENCHED ALUMINUM-COPPER-MAGNESIUM-SILICON ALLOYS 67-08 M17-76210
QUENCH AGING, ALLOYING EFFECTS
THE EFFECT OF ALUMINUM ON THE PRECIPITATION OF CARBON IN ALPHA IRON 67-08 M14-75664
QUENCH BEND TESTS
SEE BEND TESTS
QUENCH HARDENABILITY
HOW CATERPILLAR USES BORON STEELS 67-02 M20-59460
A COMPLEX METHOD FOR DETERMINATION OF HARDENABILITY OF AUSTENITIC STEELS 67-05 M10-69504
QUENCH HARDENING
SEE ALSO AIR HARDENING
AUSTEMPERING
FLAME HARDENING
INDUCTION HARDENING
MARTEMPERING
SPARK HARDENING
THE TWO-STAGE PRECIPITATION OF CARBON FROM FERRITE 67-01 M14-58460
THE REVERSION PHENOMENON IN IRON-NITROGEN ALLOYS 67-01 M14-58746
CHANGE IN STRUCTURE AND HARDNESS OF 45 STEEL IN RELATION TO COOLING RATE 67-02 M10-61949
ELECTRON MICROSCOPE STUDY OF WORK HARDENING AND QUENCH HARDENING OF MONOCRYSTALLINE BERYLLIUM 67-03 M13-65271
TECHNOLOGICAL FACTORS, DETERMINING THE SELECTION OF STEELS FOR FULL HARDENED RAILS 67-04 M10-66627
CHANGE IN STRUCTURE AND HARDNESS OF 45 STEEL DEPENDING ON COOLING RATE 67-04 M10-67783
QUENCH HARDENING IN PURE ALUMINUM 67-04 M17-68169
NATURE OF THE ANOMALOUS BEHAVIOUR OF NICKEL 67-05 M17-68256
STEEL PLATE QUENCHING AND TEMPERING PLANT IN INDIANA 67-06 M10-70025
THE MECHANISM OF HARDENING IN QUENCHED ALUMINUM 67-06 M14-70417
CONTRIBUTION TO THE PRACTICE OF QUENCH HARDENING OF SEMIFINISHED PRODUCTS MADE OF AGE HARDENABLE LIGHT METALS. PT. 2 67-08 M10-75323
THE SUITABILITY OF THE END QUENCH TEST AND THE TIME-TEMPERATURE-TRANSFORMATION DIAGRAM FOR THE PREDICTION OF THE HARDENING OF ROUND STEEL BARS 67-08 M10-75590
QUENCHING AND TEMPERING OF HEAVY CARBON STEEL FORGINGS 67-09 M10-77200
HARDNESS INCREMENT OF TOOL STEEL BY COMPRESSION QUENCHING 67-09 M10-78224
VARIATION OF MECHANICAL PROPERTIES OF CARBON STEEL DUE TO AGING 67-10 M10-79856
QUENCHANTS
SEE QUENCHING MEDIA
QUENCHING /COOLING/
SEE ALSO INTERRUPTED QUENCHING
MARTEMPERING
OIL QUENCHING
QUENCH AGING
QUENCH HARDENING
SPRAY QUENCHING
WATER QUENCHING
UNITS FOR SHEET QUENCHING AL ALLOYS 67-01 M10-57279
HEAT TREATMENT OF LARGE PLATES OF WAKAYAMA STEEL WORKS 67-01 M10-58251
LARGE STEEL CASTINGS HEAT TREATED IN SELF-GENERATING ATMOSPHERE FURNACE 67-01 M10-58448
BETHLEHEM INSTALLS NEW PLATE QUENCH AND TEMPER FACILITY 67-01 M10-58495
PROCESSES OF CARBIDE TRANSFORMATION ON THE TEMPERING OF STEEL 67-01 M15-57357
CHANGE IN THE MECHANICAL PROPERTIES OF 3KH2V8 AND 5KHGSVF STEELS DURING SECONDARY HIGH-FREQUENCY QUENCHING 67-01 M17-57675
COOLING OF PIECES DURING QUENCHING 67-02 M10-62059
QUENCHING OF EXCESS VACANCIES IN DEFORMED ALLOYS AND ALLOYS SUBJECTED TO THERMOMECHANICAL TREATMENT 67-02 M13-60299
QUENCHING OF TIN WIRES 67-02 M14-61182
THE INHERENCE OF THE PROPERTIES OF THERMOMECHANICALLY TREATED STEEL 67-02 M17-61931
SUPERHEATING OF STRUCTURAL STEELS 67-02 M17-61986
RAPIDLY QUENCHED --SPLAT-COOLED-- ALLOYS 67-03 M14-65338
EFFECTS OF STEEL QUALITY ON THE RESULTS OF HEAT TREATMENT WITH THE CORRECT TREATMENT CONDITIONS OBSERVED 67-04 M10-68051
HEAT TREATMENT PROBLEMS SOLVED BY NEW QUENCHING MEDIUM 67-04 M10-68173
QUENCHING OF BERYLLIUM BRONZE STRIP 67-06 M10-71312
TECHNICAL NOTE.. AN EVALUATION OF COOLING RATES IN CHARPY IMPACT SPECIMENS 67-06 M10-71685

QUENCHING /COOLING/

HEAT TREATMENT OF WROUGHT COPPER ALLOYS
67-06 M10-71908
QUENCHED AND TEMPERED STEEL PLATES AND PROCESSING EQUIPMENT 67-06 M10-71945
ON QUENCHED-IN RESISTIVITY IN SAP
67-06 M15-70434
VERSATILE CRYOSTAT FOR THE STUDY OF POINT DEFECTS IN QUENCHED METALS 67-06 M15-70579
THE CHANGE IN ELECTRICAL RESISTANCE OF METALS DURING MULTIPLE QUENCHING 67-06 M15-70591
THE ELECTRICAL RESISTANCE OF PLATINUM AT REPEATED QUENCHING. PT. 2. THE IRREVERSIBLE CHANGE
67-06 M15-70716
QUENCHED AND TEMPERED NICKEL ALLOY STEELS
67-07 M01-74246
HEAT TREATMENT OF LARGE FORGINGS
67-07 M10-73717
INTENSIFYING THE HEAT TREATMENT OF LOW-ALLOY LOW-CARBON SHEET STEEL 67-07 M10-73791
QUENCH AND TEMPER INSTALLATION AT BETHLEHEMS BURNS HARBOR PLANT 67-07 M10-74222
PECULARITIES IN THE STRUCTURE OF COLD WORKED AND ANNEALED MANGANESE STEEL 67-07 M13-73124
THE EFFECTIVENESS OF THERMALLY STRENGTHENING SHEET STEEL 67-08 M10-74595
QUENCHING OF SMALL FORGINGS OF STRUCTURAL STEELS FROM THE FORGING TEMPERATURE 67-08 M10-74979
CRYOGENIC QUENCHING CUTS WARPAGE
67-08 M10-75000
HIGH-FREQUENCY HEATING AND QUENCHING OF FERRITIC-PEARLITIC GRAY CAST IRON 67-08 M10-76036
QUENCHING IN A STREAM OF COMPRESSED GASES
67-08 M10-76114
INVESTIGATION OF STEELS SUSCEPTIBLE TO SECONDARY HARDENING AND HARDENING BY THERMOMECHANICAL TREATMENT 67-08 M17-76027
ISOTHERMAL QUENCHING OF CAST IRON WITH GLOBULAR GRAPHITE 67-08 M17-76033
INTENSIFYING HEAT-TREATMENT CONDITIONS FOR LOW-ALLOY MILD STEELPLATE 67-09 M10-76554
EQUIPMENT FOR A HEAT TREATMENT, QUENCHING AND TEMPERING SHOP 67-09 M10-76686
COMPRESSED AIR AS A COOLANT FOR SURFACE QUENCHING
67-09 M10-77404
A CONSIDERATION ON THE EFFECT OF DEFORM-QUENCHING TREATMENT 67-09 M10-78211
INFLUENCE OF DEFORMATION AFTER QUENCHING ON THE MECHANICAL PROPERTIES AND CREEP STRENGTH OF ALUMINUM ALLOYS USED IN AERONAUTICS
67-09 M17-76381
THE EFFECTS OF QUENCHING VT5-1 ALLOY FROM THE ALPHA-REGION, FOLLOWED BY TEMPERING, ON ITS MECHANICAL PROPERTIES 67-09 M17-77061
ON QUENCHING EXPERIMENTS IN GOLD
67-10 M10-79028
DEVELOPMENT OF HEAT TREATMENT PROCESSES IN MACHINERY CONSTRUCTION 67-10 M10-79214
HEAT TREATMENT IN THE TOOL INDUSTRY
67-10 M10-79215
EFFECT OF QUENCH RATE ON MECHANICAL PROPERTIES OF SUPRACRITICALLY ANNEALED AND QUENCHED MILD STEEL STRIP 67-10 M10-79768
EFFECT OF RAPID HEAT TREATING ON MECHANICAL PROPERTIES OF LOW-CARBON STEEL SHEET
67-10 M10-79770
OVERHEATING OF STRUCTURAL STEELS
67-10 M17-78843
EFFECTS OF THE HARDNESS OF 45 STEEL, RESULTING FROM QUENCHING IT, ON ITS ENDURANCE AFTER HIGH-TEMPERATURE TEMPERING 67-10 M17-78933
INFLUENCE OF THE STRUCTURAL STATE ON THE SHORT-TERM CREEP AND DESTRUCTION OF AUSTENITIC STEEL
67-10 M17-79227
PRODUCTION OF NEW PHASES BY ULTRARAPID QUENCHING OF LIQUID ALLOYS 67-11 M10-80246
CONTROLLED COOLING AND HEAT TREATMENT OF MASSIVE STEEL CASTINGS IN THE MOLD 67-11 M10-80573
REQUENCHING OF THE WORKING ROLLS OF COLD ROLLING MILLS 67-11 M10-80860
QUENCHED AND TEMPERED CARBON-MANGANESE STEELS FOR USE AT ELEVATED TEMPERATURES 67-11 M17-80271
STUDIES ON THE SOLIDIFICATION PROCESS OF THE ALUMINUM-SILICON ALLOYS 67-12 M06-82103
THE USE OF HIGH TEMPERATURE THERMOMECHANICAL TREATMENT IN THE MANUFACTURE OF EXTRUDED TUBES OF TITANIUM ALLOY VT 15 67-12 M07-82414
ELECTRON-MICROSCOPY STUDIES OF TRANSFORMATIONS IN A TI-V ALLOY 67-12 M13-82975
METASTABLE INDIUM-BISMUTH PHASES PRODUCED BY RAPID QUENCHING 67-12 M14-82866
VARIATION OF INTERNAL FRICTION VALUES DURING AGING OF QUENCHED AL --99.995 PER CENT PURITY--
67-12 M17-82712

QUENCHING /COOLING/, CONTROLLED ATMOSPHERES
PREPARED ATMOSPHERE QUENCHING OF HIGH-SPEED STEELS AND HIGH-CARBIDE HIGH-SPEED STEELS WITHOUT DEFORMATION 67-09 M10-77833

QUENCHING /COOLING/, CRYOGENICS
CRYOGENIC QUENCHING 67-07 M10-74225

QUENCHING MEDIA
SEE ALSO AQUEOUS QUENCHANTS
PETROLEUM BASE QUENCHANTS
QUENCHING IN THE STREAM OF COMPRESSED GASES
67-02 M10-60856
QUENCHING IN A STREAM OF COMPRESSED GASES
67-08 M10-76114

QUENCHING STRESSES
SEE RESIDUAL STRESS

R F /FREQUENCY/
SEE RADIOFREQUENCY

R H PROCESS
SEE VACUUM DEGASSING

RACEWAYS /ELECTRICAL/
SEE ELECTRICAL RACEWAYS

RADAR EQUIPMENT
SEE RADOMES

RADIAL BEARINGS
SEE JOURNAL BEARINGS
ROLLER BEARINGS
SLEEVE BEARINGS
TAPER ROLLER BEARINGS

RADIAL FORGING
STUDY GIVES GREEN LIGHT TO SWING FORGE AT ROBLIN
67-05 M07-68445

RADIANT HEATING
INVESTIGATION OF A W-SHAPE RADIATION TUBE WITH HIGH HEAT POWER 67-06 M10-71268
TEMPERATURE HOMOGENEITY IN THE FURNACE CHARGE AND ITS EFFECT ON THE DESIGN AND EFFICIENCY OF FURNACES 67-07 M10-73188
TESTS ON A W-SHAPED RADIANT TUBE OF INCREASED THERMAL CAPACITY 67-08 M10-75737
RADIATION HEATER FOR FLOATING-ZONE REFINING
67-10 M03-79646

RADIATION
SEE ALSO BETA RAYS
BREMSSTRAHLUNG
ELECTROMAGNETIC WAVES
ELECTRON BEAMS
GAMMA RAYS
INFRARED RADIATION
IONIZING RADIATION
MICROWAVES
POLARIZED LIGHT
THERMAL RADIATION
X RAYS
INFRARED STUDIES OF DEFECT PRODUCTION IN N-TYPE SI--IRRADIATION-TEMPERATURE DEPENDENCE
67-05 M14-69817
ANALYSIS OF N-TYPE GAAS WITH ELECTRON-BEAM-EXCITED RADIATIVE RECOMBINATION 67-05 M16-68620
MEASURING THE TEMPERATURE OF MOLTEN IRON WITH AN OPTICAL PYROMETER 67-07 M19-74039

RADIATION COUNTERS
SEE ALSO GEIGER MUELLER COUNTERS
SCINTILLATION COUNTERS
POSSIBLE USE OF CADMIUM TELLURIDE FOR N-P GAMMA-RAY DETECTORS 67-05 M16-68400
PROGRESS REPORT--RADIOISOTOPE THICKNESS MEASUREMENT SYSTEMS AND TECHNIQUES 67-05 M19-69486

RADIATION DAMAGE
SEE DAMAGE
RADIATION EFFECTS

RADIATION EFFECTS
THE INFLUENCE OF NEUTRON IRRADIATION ON TWINNING IN A NIOBIUM-VANADIUM ALLOY --40 PER CENT V--
67-01 M14-58472
RADIATION DAMAGE CAUSED BY NEUTRONS IN METALS
67-01 M16-58384
EFFECT OF NEUTRON IRRADIATION ON THE PROPERTIES OF TITANIUM AND CHROMIUM CARBIDES
67-02 M09-59609
TRANSMISSION ELECTRON MICROSCOPE STUDIES OF NEUTRON IRRADIATED BERYLLIUM OXIDE 67-02 M13-59049
EFFECT OF NEUTRON IRRADIATION ON THE PROPERTIES OF HIGH-ALLOY FERRITIC STEELS 67-02 M17-59555

CHANGE IN THE MICROHARDNESS DURING THE STRENGTHENING OF METALS AND ALLOYS BY NUCLEAR IRRADIATION 67-02 M17-60897
EFFECTS OF IRRADIATION IN BERYLLIUM 67-03 M16-65263
RADIATION-ENHANCED DIFFUSION IN METALS 67-04 M14-67315
RESISTOMETRIC MEASUREMENTS ON MOLYBDENUM IRRADIATED WITH 2.5 MEV ELECTRONS 67-04 M16-66531
ANNEALING OF NEUTRON-IRRADIATION-INDUCED CHANGES IN IMPURITY CONDUCTION IN ANTIMONY-DOPED GERMANIUM 67-04 M16-66787
ELECTRON RADIATION DAMAGE IN SEMICONDUCTORS AND METALS 67-04 M16-67299
THE OBSERVED NATURE OF PRIMARY DAMAGE 67-04 M16-67304
DYNAMIC STAGES OF RADIATION DAMAGE 67-04 M16-67305
RADIATION EFFECTS IN SEMICONDUCTORS 67-04 M16-67306
ELECTRON-INDUCED RADIATION DAMAGE IN PURE METALS 67-04 M16-67311
RADIATION DAMAGE IN BODY-CENTERED METALS 67-04 M16-67314
NEUTRON DAMAGE TO REACTOR MATERIALS 67-04 M17-67215
LOW-TEMPERATURE IRRADIATION STUDIES 67-04 M17-67312
RADIATION-DAMAGE STUDIES USING DISLOCATION PROPERTIES 67-04 M17-67316
INFLUENCE OF A PHASE TRANSFORMATION ON THE APPEARANCE OF HIGH-TEMPERATURE EMBRITTLEMENT AFTER NEUTRON IRRADIATION 67-04 M17-67465
THE EFFECT OF IRRADIATION TEMPERATURE ON THE RESISTIVITY RECOVERY OF COPPER 67-05 M14-69372
THE CONVERSION-TWO-INTERSTITIAL MODEL FOR RADIATION DAMAGE IN FCC METALS 67-05 M14-69373
EFFECT OF ELECTROMAGNETIC RADIATION 67-05 M15-68994
RADIATION DAMAGE EXPOSURE AND EMBRITTLEMENT OF REACTOR PRESSURE VESSELS 67-05 M16-68346
THE INFLUENCE OF IRRADIATION TEMPERATURE ON THE DAMAGE STRUCTURE IN NEUTRON-IRRADIATED MOLYBDENUM 67-05 M16-68690
FISSION FRAGMENT DAMAGE IN TUNGSTEN 67-05 M16-68761
RADIATION EFFECTS ON PAINTS--EFFECTIVE COATINGS VITAL TO NUCLEAR INDUSTRY 67-05 M16-68794
INFLUENCE OF NUCLEAR RADIATION ON PROPERTIES OF REFRACTORY COMPOUNDS 67-05 M16-69004
ENERGY DEPENDENCE OF NEUTRON DAMAGE IN SILICON 67-05 M16-69216
ELECTRON MICROSCOPY OF TYPES OF DEFECT CLUSTERS IN IRRADIATED METALS. PT. 1. THEORY OF CONTRASTS AND EXPERIMENTAL METHODS FOR IDENTIFICATION OF DEFECT TYPES 67-05 M16-69782
ELECTRON MICROSCOPY OF TYPES OF DEFECT CLUSTERS IN IRRADIATED METALS. PT. 2. STUDY OF NEUTRON AND ION IRRADIATED COPPER AND NEUTRON IRRADIATED NICKEL 67-05 M16-69783
RADIATION ANNEALING IN DEUTERON-IRRADIATED GOLD, ALUMINUM, AND PLATINUM 67-05 M16-69803
RECOVERY OF DEUTERON-IRRADIATED GOLD, ALUMINIUM, AND PLATINUM 67-05 M16-69804
RADIATION DAMAGE IN PD PRODUCED BY 1-3 MEV ELECTRONS 67-05 M16-69810
CLADDING AND STRUCTURAL MATERIALS 67-06 M01-70092
METHOD OF LEACHING BAUXITES 67-06 M02-70933
EFFECT OF LOW-TEMPERATURE DEUTERON IRRADIATION ON SOME TYPE-2 SUPERCONDUCTORS 67-06 M16-71789
CHANGING MICROHARDNESS OF CHROMIUM SUBJECTED TO NEUTRON IRRADIATION DURING ANNEALING AND DEFORMATION 67-06 M16-72350
INFLUENCE OF NEUTRON IRRADIATION ON SOME PROPERTIES OF TUNGSTEN 67-06 M16-72367
INFLUENCE OF GAMMA RADIATION ON ELECTRICAL RESISTANCE OF VAPOR DEPOSITED THIN FILMS OF AG, AL, NI AND PERMALLOY 67-06 M16-72376
ORDER-DISORDER AND RADIATION DAMAGE 67-07 M14-73681
MECHANISMS OF RADIATION DAMAGE IN REACTOR MATERIALS 67-07 M16-73374
COMPUTER STUDIES OF NEUTRON IRRADIATION AND ANNEALING IN FINITE BCC IRON SPECIMENS 67-07 M16-73377
ENERGY DEPENDENCE OF MAGNETIC CHANGES INDUCED BY ELECTRON IRRADIATION 67-07 M16-73566
RADIATION EFFECTS ON CREEP RUPTURE AND FATIGUE STRENGTH OF PURE ALUMINUM 67-07 M17-72685
MECHANISMS OF RADIATION-INDUCED MECHANICAL PROPERTY CHANGES 67-07 M17-73375
IRRADIATION HARDENING AND EMBRITTLEMENT IN BODY-CENTERED CUBIC TRANSITION METALS 67-07 M17-73376
EFFECTS OF IRRADIATION IN IRON AND STEELS 67-07 M17-73378
HARDENING IN IRRADIATED COPPER CRYSTALS 67-08 M16-75240
STUDIES OF CERAMIC FUELS WITH THE USE OF FISSION GAS RELEASE LOOP. PT. 1. FISSION GAS RELEASE FROM UO2-GRAPHITE MIXTURE DURING IRRADIATION 67-08 M16-75804
EFFECT OF GAMMA EXPOSURE ON MECHANICAL RELAXATION SPECTRUM OF ALUMINUM IN THE 150 TO 300K TEMPERATURE RANGE 67-08 M17-75274
BASIC STUDIES OF IRRADIATION EFFECTS IN FUEL MATERIALS 67-09 M16-77319
THE EFFECT OF GAMMA RADIATION ON REDUCTION OF IRON OXIDES BY HYDROGEN 67-10 M04-79849
THE EFFECT OF THERMAL DEFECTS ON THE STABILITY OF GERMANIUM AGAINST RADIATION 67-10 M16-79475
STUDY OF CERTAIN RADIATION DEFECTS IN METALS BY MEASURING INTERNAL FRICTION AND ELASTIC MODULUS 67-10 M17-79903
INHIBITING CORROSION OF REACTOR PRESTRESSING CABLES 67-11 M18-81245

RADIATION PYROMETERS
THE OPTICAL AND PHYSICAL PROPERTIES OF THE GAS CURRENTS IN BASIC OXYGEN-BLOWN CONVERTERS WITHIN THE VISIBLE PART OF THE SPECTRUM, AND THEIR CONNECTION WITH THE TECHNOLOGICAL PARAMETERS OF BLOWS 67-04 M04-67239
OPERATING EXPERIENCE WITH THE CONTINUOUS MEASUREMENT OF TEMPERATURE IN FERROUS MELTS WITH MODERN RADIATION THERMOMETERS 67-04 M19-67931
MEASUREMENT OF THE TRUE TEMPERATURE BY MEANS OF RADIATION PYROMETERS AND DETERMINATION OF THE EMISSIVITY IN STEEL MELTS 67-07 M19-73286
POLARADIOMETER--A NEW INSTRUMENT FOR TEMPERATURE MEASUREMENT 67-08 M19-76154
OPTICAL ROOF TEMPERATURE MEASUREMENTS IN OPENHEARTH FURNACES--ERRORS AND THEIR ELIMINATION 67-09 M19-76507

RADIATION SHIELD FURNACES
RECENT DEVELOPMENTS IN REFLECTING WALL SURFACES 67-08 M20-75983

RADIATION SHIELDING, POWDER METALLURGY
ROLE OF POWDER METALLURGY IN THE FABRICATION OF VERY LARGE PARTS 67-01 M09-58683

RADIATION TESTS
IN-REACTOR STUDIES OF LOW-CYCLE FATIGUE PROPERTIES OF A NUCLEAR PRESSURE VESSEL STEEL 67-07 M17-73393
IRRADIATION TESTING OF UO2-PUO2 FUELS 67-09 M16-76357

RADIATION TESTS, AUTOMATION
THE AUTOMATION OF THE CONTINUOUS NONDESTRUCTIVE TESTING OF HOT ROLLED PRODUCTS 67-07 M19-72713

RADIATORS
BRAZED GRAPHITE-METAL COMPOSITES FOR SPACE RADIATORS 67-04 M11-66386
AUTOMATION TURNS TUBING TO CORES 67-05 M08-68482

RADIO EQUIPMENT
SEE ALSO RADIO TOWERS
STEEL WIRE CLAD WITH COPPER FOR LEADS TO RADIO PARTS 67-07 M20-74149
HANDBOOK OF MATERIALS AND TECHNIQUES FOR VACUUM DEVICES 67-11 M01-80198

RADIO TOWERS, WELDING
MECHANIZED WELDING OF FLANGES IN THE CONSTRUCTION OF RADIO TOWERS 67-04 M11-66875

RADIO TUBES
SEE TUBES /ELECTRONIC/

RADIO WAVES
SEE MICROWAVES

RADIOACTIVE DECAY
SEE ALSO NUCLEAR FISSION
RADIATIVE DECAY IN COMPOUND SEMICONDUCTORS 67-08 M16-76082

RADIOACTIVE DISINTEGRATION
SEE RADIOACTIVE DECAY

RADIOACTIVE ELEMENTS
SEE RADIOISOTOPES

RADIOACTIVE ISOTOPES
SEE RADIOISOTOPES
RADIOACTIVE MATERIALS, MECHANICAL PROPERTIES
A REMOTE CONTROLLED APPARATUS FOR MEASURING THE INTERNAL FRICTION AND MODULUS OF ELASTICITY OF RADIOACTIVE SUBSTANCES 67-06 M17-70323
RADIOACTIVE MATERIALS, NONDESTRUCTIVE TESTING
UNDERWATER NEUTRON RADIOGRAPHY WITH CONICAL COLLIMATOR 67-04 M19-66718
RADIOACTIVE METALS
SEE RADIOISOTOPES
RADIOACTIVE TRACERS
AN ELECTROLYTIC METHOD OF SECTIONING METAL SPECIMENS FOR DIFFUSION STUDIES 67-01 M19-57593
USING MAGNETIC RADIOSPECTROSCOPY TO INVESTIGATE SOME PROBLEMS IN THE FLOTATION THEORY 67-02 M02-62040
USE OF TRACERS FOR DETERMINING TELLURIUM LOSSES DURING RECOVERY FROM SODA-TELLURIUM SLAGS 67-02 M03-59957
STUDYING THE SIZE OF THE METAL-SLAG SEAPRATION ZONE IN AN OPENHEARTH FURNACE WITH RADIOSOTOPES 67-02 M04-60061
STUDY ON HOMOGENEITY OF PIG IRON IN MIXER-- RADIOISOTROPE TRACER TECHNIQUE 67-02 M04-60165
AN AUTOMATIC METER FOR MEASURING CHARGE CONTOUR IN A BLAST FURNACE 67-02 M04-62138
LATTICE AND GRAIN-BOUNDARY DIFFUSION OF URANIUM IN UO2 67-02 M14-59051
SELF-DIFFUSION OF NI IN AUSTENITE OF NICKEL STEELS 67-02 M14-59117
ATOMIC AND NUCLEAR PROPERTIES OF GOLD 67-02 M16-58905
CORROSION MONITORING IN OIL WELLS WITH A RADIOACTIVE SPECIMEN 67-02 M18-60252
RADIOISOTOPES USED FOR MEASURING THICKNESS IN METALLURGY 67-02 M19-59816
TEN YEARS OF NUCLEAR RESEARCH IN STEELMAKING OPERATIONS 67-03 M04-65802
MICROANALYSIS OF OXYGEN BY A RADIOACTIVE REAGENT 67-03 M19-65252
SELF-DIFFUSION IN MONOCRYSTALLINE NICKEL 67-04 M14-67379
OBSERVATION AND QUANTITATIVE MEASUREMENTS OF GRAIN BOUNDARY DIFFUSION PHENOMENA IN IRON AND COBALT 67-04 M14-67562
THE DETECTION OF METAL FLOW IN PLASTIC DEFORMATION BY RADIOISOTOPE 67-04 M17-67583
RESEARCH, USING RADIOACTIVE ISOTOPES, INTO THE EFFECTS OF REFRACTORY PRODUCTS ON THE AMOUNT OF NONMETALLIC INCLUSIONS IN STEEL 67-04 M19-66012
DETERMINING THE SOLUBILITY OF CARBON IN FERRITE BY THE RADIOMETRIC METHOD 67-04 M19-67090
SELF-DIFFUSION IN NEAR-EQUIATOMIC ORDERED AU-CD ALLOYS 67-05 M14-69819
THE ELECTRONIC STRUCTURE OF MOLYBDENUM-TUNGSTEN ALLOYS 67-05 M16-68258
RADIOISOTOPE APPARATUS IN THE IRON AND STEEL INDUSTRY 67-06 M04-71118
EVALUATION OF STEEL WIRE DRAWING LUBRICANTS USING RADIO ISOTOPE P32 67-06 M07-71136
EFFECTS OF INOCCULANTS AND ALLOYING ADDITIVES ON THE STRUCTURE OF SPECIAL IRONS INVESTIGATED USING ISOTOPES 67-06 M13-70326
ON THE TRACER DIFFUSION COEFFICIENT OF LEAD IN TWO-PHASE LEAD-SILVER CRYSTALS 67-06 M14-71724
ESTIMATING THE ACCURACY OF DETERMINING SMALL AMOUNTS OF TIN IN TIN CONCENTRATES BY RADIOACTIVE TRACERS 67-06 M19-70340
ANALYSIS OF THE CONTAMINANTS IN NICKEL OF GRADED PURITY 67-06 M19-70401
LABELLING OF METALLIC MATERIALS WITH RADIOACTIVE TRACER ELEMENTS 67-06 M19-70837
X-RAY DETERMINATION OF TITANIUM USING FE55 RADIOISOTOPE 67-07 M02-72864
FUNDAMENTAL INVESTIGATION OF THE SLIDING FRICTION OF METALS WITH RADIOACTIVE TRACERS 67-08 M17-74921
APPLICATION OF TRACERS IN THE ALUMINUM-INDUSTRY. PT. 1. DETERMINATION OF CURRENT EFFICIENCY IN ELECTROLYTIC FURNACES 67-09 M03-77529
USE OF AUTOMATIC RECORDING DEVICES FOR DETERMINING THE SHAPE OF THE COOLING FRONT OF ALUMINUM AS SEMICONTINUOUSLY CAST 67-09 M03-77761
USE OF SELECTIVE ETCHING AND RADIOACTIVE PHOSPHORUS TO STUDY THE DISTRIBUTION OF PHOSPHORUS IN STEEL 67-09 M13-78157
INVESTIGATION OF THE ANODIC OXIDATION OF AL WITH RADIOACTIVE TRACERS IN H2SO4 ELECTROLYTES 67-09 M18-77207
IDENTIFICATION AND CONTROL OF DEFECTS IN STEEL INGOTS USED FOR RAILROAD TRACKS 67-09 M19-78025
DISTRIBUTION OF Y90 IN CAST IRONS CONTAINING GRAPHITE PARTICLES OF DIFFERENT SHAPES 67-09 M19-78080
INVESTIGATION OF MELTING AND MIXING PROCESSES DURING OPEN HEARTH STEELMAKING BY RADIOTRACER TECHNIQUES 67-10 M04-78757
RESEARCH INTO THE DIFFUSION OF COBALT IN STEEL 67-10 M14-79658
THE KINETICS OF THE DECARBURIZATION OF MALLEABLE CAST IRON INVESTIGATED BY MEASURING THE RADIOACTIVITY OF THE DECARBURIZING GAS 67-10 M14-79659
ISOTOPES AND NUCLEAR RADIATION FOR CONTROL AND AUTOMATION OF FERROUS METALLURGICAL PROCESSES 67-11 M04-81606
STUDY OF THE DIFFUSION OF SODIUM AND POTASSIUM IN IRON 67-11 M14-80582
EFFECT OF AN INTERNAL ELECTRIC FIELD ON SIMULTANEOUS DIFFUSION OF IMPURITIES IN SEMICONDUCTORS 67-11 M14-81044
SELF-DIFFUSION OF BERYLLIUM IN POLYCRYSTALLINE BERYLLIUM OXIDE 67-11 M14-81557
STUDIES OF ACTINIUM --3-- IN VARIOUS SOLUTIONS. PT. 1. SEPARATION AND PURIFICATION OF AC228 IN RA228 SOLUTIONS BY SOLVENT EXTRACTION METHOD 67-11 M16-80197
TRACE CHARACTERIZATION--CHEMICAL AND PHYSICAL 67-11 M19-80130
RADIOACTIVITY TECHNIQUES IN TRACE CHARACTERIZATION 67-11 M19-80137
AN ISOTOPE-ASSISTED STUDY OF STRUCTURAL HETEROGENEITY IN A CARBON AND ALLOY STEEL INGOT 67-11 M19-81014
DETERMINATION OF TITANIUM BY AN X-RAY RADIOMETRIC METHOD USING THE RADIOACTIVE ISOTOPE FE55 67-12 M02-82172
AN EXAMINATION OF INDUSTRIAL-SCALE ELECTROLYTIC REFINING OF ALUMINUM USING LABELED ATOMS 67-12 M03-82489
HOW CHARGE MAKE-UP AFFECTS PHOSPHORUS CONTENT IN FERROCHROMIUM WITH EXTRA-LOW CARBON COMPONENT 67-12 M04-82498
INVESTIGATION OF MELTING AND MIXING PROCESSES DURING OPENHEARTH STEELMAKING BY RADIOTRACER TECHNIQUES 67-12 M04-82126
MICRODISTRIBUTION OF RARE EARTH ELEMENTS IN CAST IRON 67-12 M06-81973
EFFECT OF NICKEL IN AUSTENITIC WELDS ON THE MIGRATION OF CARBON TO THE WELDED JOINTS OF DISSIMILAR STEELS 67-12 M11-81908
MATHEMATICAL AND EMPIRICAL DETERMINATION OF THE DISTRIBUTION COEFFICIENT OF ZINC IN ALUMINUM 67-12 M14-81783
STUDY OF THE EFFECT OF ULTRASONIC VIBRATIONS ON THE DIFFUSION OF PHOSPHORUS AND CARBON IN IRON 67-12 M14-83409
RADIOACTIVE TOOL-WEAR TESTING ON FREE-CUTTING BRASS 67-12 M17-83285
RADIOACTIVE TRACERS, CORROSION
RADIOMETRIC METHODS OF MEASURING LOW RATES OF CORROSION OF TITANIUM 67-11 M18-81300
RADIOACTIVE TRACERS, DISTRIBUTION
DISTRIBUTION OF Y90 IN CAST IRONS WITH VARIOUS FORMS OF GRAPHITE INCLUSIONS 67-02 M19-61808
RADIOACTIVE TRACERS, STEEL MAKING
ECONOMIES OFFERED BY ISOTOPE FURNACE CHARGE-LEVEL CONTROL 67-12 M19-82903
RADIOACTIVE WASTE, CORROSION ENVIRONMENTS
STAINLESS STEEL TANKS FOR RADIOACTIVE WASTE STORAGE 67-01 M18-58763
RADIOACTIVE WASTE, REFINING
STUDY OF THE DRY CHEMICAL TREATMENT OF URANIUM-ZIRCONIUM FUELS 67-02 M03-59420
RADIOACTIVITY
THE DEPOSITION OF THIN FILMS OF ENRICHED URANIUM DIOXIDE 67-03 M12-65016
RADIOCHEMISTRY
DETERMINATION OF ARSENIC IN SB-FE MATRICES BY ACTIVATION ANALYSIS 67-05 M19-68812
EFFECT OF TEMPERATURE ON RADIOCHEMICAL SEPARATION OF ALKALI METALS ON SULFONIC AND PHENOLSULFONIC ION EXCHANGERS 67-10 M03-79701

RADIOCRYSTALLOGRAPHY
SEE CRYSTALLOGRAPHY
RADIOGRAPHY
RADIOFREQUENCY
EFFECTIVE PERMEABILITY OF THIN MAGNETIC FILMS AS A FUNCTION OF THE AMPLITUDE OF A RADIOFREQUENCY FIELD 67-07 M15-72579
FERMI SURFACE IN GALLIUM DTERMINED FROM THE RADIO-FREQUENCY SIZE EFFECT 67-07 M16-73943
RADIOFREQUENCY SIZE EFFECTS IN CADMIUM IN MAGNETIC FIELDS INCLINED TO THE SAMPLE SURFACE 67-08 M15-75233
RADIOGRAPHIC INSPECTION
SEE RADIOGRAPHY
RADIOGRAPHS
X-RAY MOTION PICTURES LOOK INTO CASTINGS 67-03 M06-65481
A CAMERA FOR BORRMANN STEREO X-RAY TOPOGRAPHS 67-06 M14-71419
A MODIFICATION OF THE SCANNING X-RAY TOPOGRAPHIC CAMERA --LANGS METHOD-- 67-06 M14-71420
THE CRYSTALLINE PERFECTION OF MELT-GROWN GAAS SUBSTRATES AND GA --AS, P-- EPITAXIAL DEPOSITS 67-06 M14-71422
RADIOGRAPHS /X RAY PHOTOGRAPHS/
SEE RADIOGRAPHY
RADIOGRAPHY
SEE ALSO AUTORADIOGRAPHY
MICRORADIOGRAPHY
NEUTRON RADIOGRAPHY
NONDESTRUCTIVE MATERIAL TESTING IN THE PRODUCTION OF FUEL ELEMENTS 67-02, M16-60022
METHODS FOR MEASURING DENSITY AND THICKNESS OF OBJECTS BY SCATTERING COLLIMATED GAMMA-RAYS 67-02 M19-58941
USE OF CRACK INDICATORS IN RADIOGRAPHY 67-02 M19-59994
INSPECTION OF WELDS BY ULTRASONIC METHODS 67-02 M19-60509
STRIP THICKNESS MEASUREMENT WITH RADIONUCLIDES 67-03 M19-65625
COLOR RADIOGRAPHY, A NEW INDUSTRIAL MATERIAL TESTING METHOD 67-03 M19-65732
X-RAYS AND THEIR APPLICATIONS 67-04 M01-67244
INFLUENCE OF DISSOLVED BIVALENT CATIONS UPON THE DECOMPOSITION MECHANISM OF WUSTITE FE1-XO BELOW 600 C 67-04 M14-66298
THE DETECTION OF METAL FLOW IN PLASTIC DEFORMATION BY RADIOISOTOPE 67-04 M17-67583
THE ECONOMY OF TESTING CASTINGS WITH GAMMA RADIATION 67-04 M19-67254
MODERN RADIOMETALLOGRAPHIC METHODS 67-04 M19-67399
DETERMINATION OF THE TOLERABLE RADII AND OF THE THICKNESS OF STEEL PIPES IN WHICH GAMMA DEFECTOSCOPY OF TRANSVERSE FILLET WELD BY DOUBLE EXPOSURE WITH IR192 IS POSSIBLE ALONG THE ENTIRE WELD LENGTH 67-04 M19-67434
QUALITY CONTROL OF WELDED JOINTS 67-04 M19-68019
NONDESTRUCTIVE TESTING IN OIL INDUSTRY 67-04 M19-68025
ON THE RADIOCRYSTALLOGRAPHIC METHOD OF DETERMINATION OF RESIDUAL AUSTENITE IN QUENCHED STEELS 67-05 M13-69115
QUALITY EVALUATION OF MISSILE STRUCTURE SPOT-WELDED JOINTS 67-05 M19-69087
RADIOGRAPHIC CONTROL OF WELDMENTS 67-05 M19-69124
IT CHARTS, CONTROLS THICKNESS OF PAINT FILM AUTOMATICALLY IN COIL COATING 67-05 M19-69877
RADIOGRAPHIC ANALYSIS AND STRENGTH OF WELDED JOINTS 67-06 M11-70035
THE BEHAVIOR OF IMPURITIES IN LEAD SELENIDE SINGLE CRYSTALS 67-06 M14-71372
CONTROL OF THE TOTAL THICKNESS OF ROLLED STOCK AND OF THE THICKNESS OF ITS STEEL BASE 67-06 M19-70097
A BALANCED LOOK AT WELD INSPECTION 67-06 M19-70456
NONDESTRUCTIVE TESTING OF WELDS--ULTRASONIC AND RADIOGRAPHIC METHODS 67-06 M19-71234
ADVANCES IN X-RAY ANALYSIS. V 9 67-06 M19-71418
CALCULATION OF THE STRENGTH OF WELDED STRUCTURES IN ALUMINUM ALLOYS UNDER STATIC AND DYNAMIC STRESS 67-06 M19-71834
COMBINED USE OF ULTRASONICS AND RADIOGRAPHY FOR THE QUALITY CONTROL OF PIPE WELDS, WITH SPECIAL REFERENCE TO AUTOMATION 67-06 M19-72128
X-RAY INSPECTION OF MATERIALS. PT. 5 67-06 M19-72135
STOCKLINE MEASUREMENT IN BLAST FURNACES WITH RADIOACTIVE ISOTOPES 67-07 M04-72712
HIGH-PRESSURE AND HIGH-TEMPERATURE TRANSFORMATIONS OF RARE EARTH MONOCHALCOGENIDES 67-07 M14-72452
PRESENT STATE OF THE DETERMINATION OF STRESSES BY X-RAY INVESTIGATION 67-07 M17-73291
NONDESTRUCTIVE TESTING OF BERYLLIUM 67-07 M19-73765
DETECTION BY RADIOGRAPHY AND ULTRASONICS OF LACK FUSION IN WELDS IN PIPELINES MADE BY THE CO2 PROCESS 67-07 M19-73889
NDT APPLIED TO PIPELINE CONSTRUCTION AND OPERATION IN THE U.S.A. P.2 67-07 M19-74026
WALL THICKNESS MEASUREMENTS BY NONDESTRUCTIVE METHODS IN THE PRODUCTION OF STEEL TUBES 67-07 M19-74110
RADIOGRAPHIC EFFECT ACCOMPANYING RADIATION DAMAGE IN THE CARBIDE PHASE OF WHITE CAST IRON 67-08 M14-74548
RADIOGRAPHIC OBSERVATIONS OF THE SOLIDIFICATION OF METALS 67-08 M14-75138
RADIOTRACER METHOD FOR INVESTIGATION OF ANTIWEAR PROPERTIES OF LUBRICATING OIL ADDITIVES UNDER CONDITIONS OF ELECTRO-EROSIVE WEAR 67-08 M17-75544
THE APPLICATIONS OF THE ELECTRON BEAM MICROANALYZER --MICROPROBE-- TO MATERIALS RESEARCH 67-08 M19-74568
MATERIAL TESTING IN CASTING TECHNOLOGY 67-08 M19-74754
RADIOGRAPHIC CONTROL OF WELDMENTS 67-08 M19-75395
DYNAMIC AND STATIC X-RAY INSPECTION 67-09 M19-76532
POSSIBILITIES FOR THE USE OF NONDESTRUCTIVE TESTING FOR THE DETECTION OF DEFECTS IN THE PRODUCTION OF STEEL TUBES 67-09 M19-76696
QUALITY CONTROL OF CAST STEEL BY NONDESTRUCTIVE TESTING METHODS, ESPECIALLY BY ULTRASOUND 67-09 M19-77198
PROCESS ENGINEERING USES OF RADIOACTIVE ISOTOPES 67-09 M19-78104
NEW METHOD FOR CONTROLLING STEEL QUALITY. MICROPROBE AND RADIOACTIVE TRACER ANALYSIS OF INCLUSIONS 67-09 M19-78290
METALLURGICAL IMPLICATIONS OF MODERN INSPECTION TECHNIQUES 67-10 M19-79306
RADIOGRAPHIC EXAMINATION OF CREEP AND ANNEALING SPECIMENS OF STEEL 10 CRMO 9 10 67-11 M14-81377
NONDESTRUCTIVE TESTING 67-11 M19-80483
ULTRASONICS CUT COST TO INSPECT STEEL CASTINGS 67-11 M19-80523
RADIOGRAPHY OF WELDMENTS 67-11 M19-80574
RADIOISOTOPES
THE SOLID STATE--REHBINDER EFFECT IN LUBRICATED METAL CURRING 67-02 M08-60882
NEW LOOK AT COATING THICKNESS 67-05 M19-68469
KRYPTONATES.. A NEW TECHNIQUE FOR THE DETECTION OF WEAR 67-07 M19-74027
RADIOISOTOPE X-RAY FLUORESCENCE AND RADIATION SCATTER TECHNIQUES IN MINING AND METALLURGY 67-08 M19-74669
NO CONTACT STRIP THICKNESS MEASUREMENT WITH RADIOISOTOPES 67-08 M19-75765
BORON DETECTION IN METALS BY ALPHA-PARTICLE TRACKING 67-09 M19-77432
PROCESS ENGINEERING USES OF RADIOACTIVE ISOTOPES 67-09 M19-78104
DIFFUSION OF YTTRIUM IN ZIRCONIUM 67-10 M14-79626
DETERMINATION OF SILICON BY NEUTRON RADIOACTIVATION AND APPLICATION TO NUCLEAR GRAPHITES AND ALUMINAS. INVESTIGATION OF INTERFERENCES 67-12 M16-82239
RADIOISOTOPES, COATINGS
ELECTRODEPOSITION OF TC99 FROM AQUEOUS SOLUTION 67-05 M12-68618
RADIOISOTOPES, DIFFUSION
DIFFUSION OF IRON AND SILVER IN BERYLLIUM 67-01 M14-58025
SELF-DIFFUSION IN POTASSIUM 67-05 M14-68760
RADIOISOTOPES, MATERIALS
USE OF RADIOACTIVE ISOTOPES IN MINING AND

RADIOISOTOPES
NONFERROUS METALLURGY 67-09 M19-76891
RADIOISOTOPES, MECHANICAL PROPERTIES
A REMOTE CONTROLLED APPARATUS FOR MEASURING THE INTERNAL FRICTION AND MODULUS OF ELASTICITY OF RADIOACTIVE SUBSTANCES 67-06 M17-70323
RADIOISOTOPES, NONDESTRUCTIVE TESTING
NONDESTRUCTIVE EXAMINATION OF RADIOACTIVE MATERIAL USING NEUTRON RADIOGRAPHY 67-03 M19-65015
RADIOLYSIS
SOLID-STATE ELECTROMIGRATION OF IMPURITIES IN CERIUM METAL 67-04 M03-66887
RADIOMETALLURGY
SEE NUCLEAR METALLURGY
RADIUM, EXTRACTION
SIMULTANEOUS SEPARATION OF THE ELEMENTS RA, PU, U, AM AND CM FROM IRRADIATED THORIUM 67-12 M16-82238
RADOMES, CASTING
PRECISION CASTING FUSED SILICA RADOMES 67-01 M06-58792
RAILROAD CARS
SEE ALSO FREIGHT CARS
WEATHER RESISTANT STEEL SHEETS 67-01 M18-58116
CHARACTERISTICS OF BRITTLE FAILURES IN WELDED ROLLING STOCK AND PREVENTIVE MEASURES 67-07 M11-72736
RAILROAD EQUIPMENT 67-08 M20-74829
PREVENTING BRITTLE FRACTURES OF WELDED STRUCTURES IN ROLLING STOCK 67-12 M11-82315
STAINLESS STEELS IN TRANSPORTATION 67-12 M20-83296
RAILROAD CARS, STRUCTURAL MEMBERS
PRODUCTION OF A LIGHTENED NO. 60 H-BEAM 67-07 M07-73784
MANUFACTURING LIGHTENED I-BEAMS 67-09 M07-76547
RAILROAD CARS, WELDING
ELECTRIC RIVET WELDING THIN-WALLED PANELS TO BENT SHAPES 67-01 M11-57537
ARC SPOT WELDING OF THIN SHEATHING TO BENT SECTIONS 67-02 M11-61156
RAILROAD RAILS
SEE RAILROAD TRACK
RAILROAD TRACK, CLADDING
DEVELOPING A TECHNOLOGY FOR PRODUCING HIGH-STRENGTH RAILROAD RAILS 67-05 M08-68554
DEVELOPING A TECHNOLOGY FOR PRODUCING HIGH-TENSILE STEEL RAILWAY RAILS 67-07 M08-72465
RAILROAD TRACK, CORROSION
CORROSION RESISTANCE OF COATING COMPOSED OF ZINC AND OTHER METALS--CORROSION PREVENTION OF TRACK MATERIALS 67-02 M18-59159
RAILROAD TRACK, DEFECTS
EFFECT OF HYDROGEN OF BOS STEEL 67-01 M17-57671
FORMATION OF A WHITE LAYER IN RAILROAD RAIL HEADS 67-04 M17-66623
RAILROAD TRACK, HARDENING
EXPLOSION STRENGTHENING OF G13L STEEL 67-02 M17-59557
HARDENING AUSTENTIC MANGANESE STEEL BY EXPLOSIVES. A BRIEF SUMMARY OF SEVERAL PAPERS PREVIOUSLY PUBLISHED 67-05 M17-69747
RAILROAD TRACK, HEAT TREATMENT
PROPERTIES OF LOW-ALLOY STEEL HEAT TREATED RAILS 67-02 M17-61755
AUSROLLING RAIL STEEL 67-04 M10-67617
INFLUENCE OF THE HOLDING AT QUENCHING TEMPERATURE ON MECHANICAL PROPERTIES OF G13L STEEL 67-09 M10-77405
RAIL PRODUCTION WITH FULL HEAT TREATMENT 67-09 M10-77630
RAILS PRODUCED WITH FULL HEAT TREATMENT 67-11 M10-80918
INDUCTION SURFACE HARDENING OF RAILROAD RAILS AND EQUIPMENT 67-12 M10-83107
RAILROAD TRACK, MECHANICAL PROPERTIES
USE OF NITRIDED FERROCHROMIUM IN RAIL PRODUCTION 67-04 M04-66079
EFFECT OF PLASTIC DEFORMATION IN AUSTENITIC STATE ON TEMPER BRITTLENESS OF RAIL STEEL 67-04 M17-67618
PRODUCTION OF HIGH STRENGTH CHROMIUM R-65 RAILS 67-06 M07-71255
THE REASONS WHY SMALL AMOUNTS OF VANADIUM STRENGTHEN RAIL STEEL 67-06 M14-70099
PROPERTIES OF CARBON RAIL STEEL AND 40KHN STEEL AFTER QUENCHING WITH TEMPER AND AFTER ISOTHERMAL TREATMENT 67-06 M17-69976
RAIL QUALITY IMPROVED BY MEANS OF VANADIUM 67-06 M17-70100
THE EFFECTS OF ADDING VANADIUM TO RAIL STEEL AND AGING IT NATURALLY ON ITS PROPERTIES 67-06 M17-71376
EXAMINATION OF BASIC BESSEMER RAIL STEEL 67-06 M19-70258
PRODUCING HIGH STRENGTH R-65 CHROMIUM STEEL RAILS 67-08 M07-75724
EFFECT OF THE ADDITION OF RARE EARTH ELEMENTS ON THE COLD BRITTLENESS AND TEMPER BRITTLENESS SUSCEPTIBILITY OF ACID CONVERTER RAIL STEEL 67-08 M17-74589
RAIL STEEL STRENGTHENED BY THERMOMECHANICAL TREATMENT 67-10 M08-78937
HIGH-MANGANESE STEEL HARDENED BY EXPLOSION 67-10 M17-78377
MECHANISM BY WHICH INOCULATION STRENGTHENS RAIL STEEL 67-10 M17-78938
THE SERVICE LIFE OF RAILS INOCULATED WITH TITANIUM 67-10 M17-78940
EFFECT OF THE ACIDITY OF FINISH SLAGS ON THE QUALITY OF RAIL STEEL 67-11 M04-80851
RAILROAD TRACK, METAL WORKING
ELECTROCHEMICAL MILLING SIZES FORGINGS 67-08 M08-75922
AUSROLLING RAIL STEEL CONTAINING HIGHER AMOUNTS OF MANGANESE AND SILICON 67-10 M07-79330
RAILROAD TRACK, NONDESTRUCTIVE TESTING
ULTRASONIC TESTING OF RESISTANCE WELDED JOINTS 67-02 M19-60138
THE ULTRASONIC LOCATION OF DEFECTS IN FLASH WELDED RAILS 67-04 M19-67678
RAILROAD TRACK, ROLLING
PRODUCING RAILS FROM CONTINUOUS CAST SLABS 67-07 M07-73783
EFFECT OF THE GEOMETRIC FORM OF THE OBLIQUE-POSITIONED PASS ON STRIP STABILITY DURING ROLLING 67-07 M07-73786
RAILS ROLLED FROM CONTINUOUSLY CAST SLABS 67-09 M07-76546
INFLUENCE OF GEOMETRY OF DIAGONAL ROLL PASS ON STEADINESS OF STRIP IN WORK 67-09 M07-76549
RAILROAD TRACK, WEAR
EXPERIMENTAL STRESS ANALYSIS OF RAILS 67-08 M17-74680
RAILROAD TRACK, WELDING
WELDING THE RAILS OF A SEAMLESS TRACK IN RAILROADS WHICH ARE UNDER CONSTRUCTION 67-01 M11-58215
METHOD OF FINAL TREATMENT OF WELDED RAIL JOINTS 67-05 M10-69242
ENCLOSED ARC PROCESS APPLIED TO THE WELDING OF NEW TOKAIDO LINE 67-09 M11-77335
ELECTROSLAG WELDING OF CRANE TRACK RAILS 67-09 M11-77612
SOME REASONS FOR DEFECTS IN RESISTANCE WELDED RAILS 67-09 M11-78120
STRUCTURE OF THE WELD AFFECTED ZONE IN BUILDUP ON G13L STEEL 67-11 M11-80650
RESEARCH ON ELECTRIC ARC WELDING AND THE ARCOSAC METHOD OF HARD SURFACING RAILS 67-12 M11-83282
INVESTIGATION OF SECHERON WELDED RAIL JOINTS 67-12 M11-83283
RAILROADS
SEE RAPID TRANSIT
RAILS /RAILROAD/
SEE RAILROAD TRACK
RAMAN SPECTRA
FIRST ORDER RAMAN EFFECT IN 3-5 COMPOUNDS 67-01 M16-57444
RAMAN SCATTERING FROM DONOR AND ACCEPTOR IMPURITIES IN SILICON 67-06 M16-71100
IDENTIFICATION OF THE FUNDAMENTAL VIBRATIONAL MODES OF TRIGONAL, ALPHA-MONOCLINIC AND AMORPHOUS SELENIUM 67-06 M16-71170
RAMAN SPECTRA OF CAWO4, SRWO4, CAMOO AND SRMOO4 67-09 M13-77179
RAMAN SPECTROSCOPY
SEE RAMAN SPECTRA
SPECTROSCOPY
RAMS
SEE ALSO HYDRAULIC RAMS
AUTOMATED HOT FORGING INSTALLATION 67-05 M07-68632
RANEY NICKEL
SEE CATALYSTS
NICKEL

RANKINE CYCLE
ALKALI-METAL, RANKINE-CYCLE POWER SYSTEMS FOR ELECTRIC PROPULSION 67-10 M20-79732
RAOULTS LAW
THERMODYNAMIC ACTIVITY OF CHROMIUM IN FE-CR SOLUTIONS 67-12 M15-82594
RAPID TRANSIT, CORROSION
CORROSION CONTROL STUDIES FOR A RAPID TRANSIT SYSTEM 67-02 M18-60251
RARE EARTH COMPOUNDS
SEE ALSO CERIUM COMPOUNDS
DYSPROSIUM COMPOUNDS
ERBIUM COMPOUNDS
EUROPIUM COMPOUNDS
GADOLINIUM COMPOUNDS
HOLMIUM COMPOUNDS
LANTHANUM COMPOUNDS
NEODYMIUM COMPOUNDS
PRASEODYMIUM COMPOUNDS
SAMARIUM COMPOUNDS
TERBIUM COMPOUNDS
YTTERBIUM COMPOUNDS
RARE EARTH COMPOUNDS, ALLOYING ADDITIVE
EFFECTS OF RARE-EARTH ADDITIONS ON PLAIN-CARBON STEEL 67-04 M17-68176
RARE EARTH COMPOUNDS, ATOMIC PROPERTIES
RARE EARTH COBALT COMPOUNDS WITH THE AB3 STRUCTURE 67-12 M13-82967
RARE EARTH COMPOUNDS, CRYSTAL LATTICES
A FAMILY OF ORTHORHOMBIC COMPOUNDS OF THE MNY2S4 TYPE 67-04 M14-66342
PEROWSKITE CARBIDES WITH RARE-EARTH METALS 67-04 M16-66911
PEROVSKITE CARBIDES WITH RARE-EARTH METALS 67-06 M16-72067
CRYSTALLINE STRUCTURES OF CERTAIN COMPOUNDS OF RARE-EARTH METALS WITH CADMIUM 67-07 M13-73482
THE CRYSTAL STRUCTURES OF RARE-EARTH MONOSILICIDES 67-08 M13-74783
RARE EARTH-GERMANIUM AND -SILICON COMPOUNDS AT 5..4 AND 5..3 COMPOSITIONS 67-08 M13-76139
THE CRYSTAL CHEMISTRY OF SELECTED AB2 RARE EARTH COMPOUNDS WITH SELENIUM, TELLURIUM, AND ANTIMONY 67-12 M13-81736
RARE EARTH COMPOUNDS, DEOXIDIZING
USE OF RARE EARTH ELEMENTS FOR PROCESSING RAIL STEEL 67-01 M04-57176
RARE EARTH COMPOUNDS, EMITTERS /ELECTRON/
THERMIONIC ELECTRON EMITTERS BASED ON THE ALLOYS OF RARE-EARTH METALS 67-09 M20-76663
RARE EARTH COMPOUNDS, EXTRACTION
EXTRACTION OF RARE EARTHS FROM HYDROCHLORIC SOLUTIONS BY AN EXTRACTANT MIXTURE 67-08 M03-75872
RARE EARTH COMPOUNDS, INTERMETALLICS
ZINC-RICH PHASES OF THE RARE-EARTH-ZINC ALLOYS 67-08 M13-75290
RARE EARTH COMPOUNDS, MAGNETIC PROPERTIES
MAGNETIC CHARACTERISTICS OF SOME 1..1 COMPOUNDS OF THE LANTHANIDES WITH GOLD AND ALUMINUM 67-03 M15-65130
MAGNETIC PROPERTIES OF COMPOUNDS AND SOLID SOLUTIONS OF RARE-EARTH METALS 67-07 M15-73580
MAGNETIC PROPERTIES OF RARE-EARTH COMPOUNDS 67-07 M15-73587
VOLUME EFFECT FOR MAGNETIC TRANSITION TEMPERATURES OF RARE-EARTH-SCANDIUM ALLOYS 67-11 M15-80657
MAGNETIC SUSCEPTIBILITIES OF SOME RARE-EARTH-ZINC --RZN2-- INTERMETALLIC COMPOUNDS 67-12 M15-82360
RARE EARTH COMPOUNDS, MICROSTRUCTURE
BEHAVIOR OF SEVERAL RARE EARTH METAL OXIDE DISPERSIONS IN UO2 AT HIGH TEMPERATURE 67-08 M14-75605
RARE EARTH COMPOUNDS, PHASE TRANSFORMATIONS
A FAMILY OF CAL2S4 COMPOUND FORMED BY RARE EARTH ELEMENTS BETWEEN HO AND LU 67-10 M14-79714
THE REFRACTORY NATURE OF CUBIC SOLID SOLUTIONS FORMED BY ZR WITH CERTAIN SESQUIOXIDES OF RARE EARTH ELEMENTS 67-10 M14-79896
RARE EARTH COMPOUNDS, PHASES /STATE OF MATTER/
THE STRUCTURE OF NEW RARE EARTH COMPOUNDS. PT. 1 67-04 M16-66910
PREPARATION AND PROPERTIES OF RARE-EARTH SILICATES AND ALUMINATES 67-08 M14-75999
RARE EARTH COMPOUNDS, PHYSICAL PROPERTIES
MAGNETIC PROPERTIES OF RARE-EARTH COMPOUNDS 67-07 M15-73587
CRYSTAL STRUCTURE AND MAGNETIC PROPERTIES OF SOME RARE EARTH GERMANIDES 67-10 M15-79009
RARE EARTH COMPOUNDS, REACTIONS /CHEMICAL/
ON THE RATE OF FORMATION OF WOLFRAMATES OF CERTAIN RARE EARTH ELEMENTS DURING HIGH TEMPERATURE SYNTHESIS 67-03 M14-65586
RARE EARTH COMPOUNDS, SYNTHESIS
PRODUCTION OF DICARBIDES OF GD, TB, DY, ER, TM AND LU 67-12 M09-83557
RARE EARTH COMPOUNDS, THERMODYNAMICS
A SIMPLE, LOW-CONTAMINATION PREPARATIVE TECHNIQUE FOR COMPOUNDS HAVING HIGH HEATS OF FORMATION, SUCH AS RARE-EARTH-GROUP VB COMPOUNDS 67-08 M15-75298
RARE EARTH ELEMENTS, PHYSICAL PROPERTIES
THE THERMAL AND ELECTRICAL CONDUCTIVITIES OF SCANDIUM, YTTRIUM AND MANGANESE AND TWELVE RARE-EARTH METALS, AT NORMAL TEMPERATURE 67-03 M15-65126
RARE EARTH METALS
SEE ALSO CERIUM
DYSPROSIUM
ERBIUM
EUROPIUM
GADOLINIUM
HOLMIUM
LANTHANUM
LUTETIUM
NEODYMIUM
PRASEODYMIUM
SAMARIUM
TERBIUM
THULIUM
YTTERBIUM
THE UNFAMILIAR METALS 67-03 M01-65319
THE RARE EARTHS--THEIR OLD AND NEW APPLICATIONS 67-09 M01-77832
RARE EARTH METALS, ALLOYING ADDITIVE
INFLUENCE OF RARE EARTH METALS ON STRUCTURE AND PROPERTIES OF BR. OS 5-25 BRONZE 67-01 M06-57329
EFFECT OF CE AND LA ON EUTECTOID TRANSFORMATION OF AUSTENITE IN CAST IRON 67-02 M14-59184
EFFECT OF RARE-EARTH METALS ON THE CRYSTALLIZATION OF STEEL 67-02 M15-59179
PREPARATION AND X-RAY INVESTIGATION OF PLATINUM ALLOYS WITH THE RARE-EARTH METALS --PT5LN AND PT3LN PHASES-- 67-05 M14-68218
EFFECT OF RARE EARTH METALS ON THE PROPERTIES OF STEEL IN LIQUID AND SOLID STATES 67-06 M17-70276
INFLUENCE OF RARE EARTH METALS ON THE STRUCTURE AND PROPERTIES OF BRONZE BR. OS 5-25 67-07 M06-73051
INFLUENCE OF RARE-EARTH METALS ON THE PROPERTIES OF LOW-ALLOY STEEL MELTED IN AN ACID ELECTRIC FURNACE 67-08 M17-74541
INFLUENCE OF RARE EARTH METALS ON HARDENABILITY OF STEEL 67-08 M17-75886
INFLUENCE OF CERIUM, NEODYMIUM, PRASEODYMIUM, LANTHANUM AND ALUMINUM ON THE STRUCTURE OF CAST IRON 67-09 M14-77421
INFLUENCE OF RARE EARTH ELEMENTS ON THE PROPERTIES OF AUSTENITIC CR-NI STEEL 67-09 M17-77414
EFFECTS OF RARE EARTH ELEMENTS ON HIGH-TEMPERATURE OXIDATION BEHAVIOR OF FE-18 PER CENT CR ALLOYS CONTAINING SILICON 67-09 M18-78218
X-RAY FLUORESCENCE ANALYSIS OF DY, HO, AND ER ALLOYS WITH MN 67-09 M19-78112
INFLUENCE OF CE AND LA ON THE EUTECTOID TRANSFORMATION OF AUSTENITE IN CAST IRON 67-10 M14-78893
INFLUENCE OF RARE-EARTH METALS ON THE CRYSTALLIZATION OF STEEL 67-10 M15-78888
BIBLOGRAPHIC STUDY OF THE EFFECT OF RARE EARTH METAL ADDITIVES ON THE PROPERTIES OF STEEL 67-10 M17-78325
INVESTIGATION OF THE EFFECTS OF RARE EARTH ELEMENTS ON THE PROPERTIES OF 12KH1 MF BOILER STEEL 67-10 M17-78954
IMPROVING THE STRUCTURE AND PROPERTIES OF 10KH16N25M6 STEEL BY ADDING RARE EARTH METALS TO IT 67-10 M17-78964
NONMETALLIC INCLUSIONS IN RAIL STEEL AS ALLOYED WITH RARE EARTH ELEMENTS 67-11 M04-81447
EFFECT OF RECRYSTALLIZATION CONDITIONS ON THE LIQUATION OF SULFUR IN A STEEL INGOT WHICH

RARE EARTH METALS

CONTAINS RARE EARTH METALS 67-11 M04-81650
RESEARCH ON NOBLE METAL ALLOYS CONTAINING MORE ELECTROPOSITIVE ELEMENTS. PT. 12. TYPE-CII PHASES IN RARE EARTH ELEMENT ALLOYS 67-11 M13-80576
IMPROVEMENT IN QUALITY OF OPEN-HEARTH STEEL BY TREATMENT WITH ALLOYS OF RARE-EARTH METALS 67-12 M04-82401
MICRODISTRIBUTION OF RARE EARTH ELEMENTS IN CAST IRON 67-12 M06-81973
PHASE COMPOSITION OF ALUMINUM-RICH WELDS ALLOYED WITH RARE EARTH METALS 67-12 M13-81921

RARE EARTH METALS, ALLOYING EFFECTS
EFFECTS OF RARE EARTH METALS ON THE QUALITY OF STRUCTURAL STEEL 67-10 M17-78375

RARE EARTH METALS, ATOMIC PROPERTIES
STABILITY OF ELECTRONIC CONFIGURATIONS 67-07 M16-72509
STABILITY OF ELECTRON CONFIGURATIONS 67-11 M16-80895

RARE EARTH METALS, BENEFICIATION
PYROGALLOL AS A REGULATOR IN NON-SULFIDE MINERAL FLOTATION 67-08 M02-75169
REACTION OF SODIUM SULFIDE WITH PYROCHLORE, ZIRCON, AND MONAZITE IN FLOTATION WITH SODIUM OLEATE 67-08 M02-75173

RARE EARTH METALS, BINARY SYSTEMS
PRODUCTION OF RARE EARTH SILICIDES BY ARC MELTING 67-02 M13-59882
INTERMETALLIC COMPOUNDS IN THE RARE-EARTH METALS-ALUMINUM SYSTEMS AND SOME OF THEIR PROPERTIES 67-02 M13-62185
NEW COMPOUNDS OF RARE-EARTH METALS WITH ZINC AND THEIR CRYSTAL STRUCTURE 67-06 M13-70329
INVESTIGATIONS ON THE BINARY SYSTEMS OF MANGANESE WITH YTTRIUM, SAMARIUM, GADOLINIUM, DYSPROSIUM, HOLMIUM, AND ERBIUM USING THE AMALGAM PROCESS 67-06 M14-71667
RARE-EARTH-SB AND -BI COMPOUNDS WITH THE GD4BI3 --ANTI-TH3P4-- STRUCTURE 67-08 M13-75291
INTERMETALLIC COMPOUNDS OF RARE-EARTH METALS WITH ALUMINUM AND SOME OF THEIR PROPERTIES 67-08 M13-75961
THERMODYNAMICS OF FORMATION OF BINARY RARE EARTH-MAGNESIUM PHASES WITH CSCL-TYPE STRUCTURES 67-12 M15-82848

RARE EARTH METALS, CRYSTAL LATTICES
THE HIGH-TEMPERATURE LATTICE SPACINGS OF SOME R. E. PD3 PHASES. PT. 4 67-05 M13-68219

RARE EARTH METALS, DIFFUSION
SOLUBILITY OF RARE EARTH METALS IN IRON 67-06 M14-69985

RARE EARTH METALS, ELECTRODES
A TUNGSTEN ELECTRODE FOR THE ARGON TUNGSTEN ARC WELDING OF METALS 67-02 M11-59800

RARE EARTH METALS, EMITTERS /ELECTRON/
THERMIONIC ELECTRON EMITTERS BASED ON THE ALLOYS OF RARE-EARTH METALS 67-09 M20-76663

RARE EARTH METALS, EXTRACTION
A HIGH-TEMPERATURE ELECTROWINNING CELL FOR RARE EARTHS 67-02 M03-61589
EXTRACTION OF METALS BY POLYALLYLCHLORIDE PHOSPHONIC ACID 67-05 M03-69543
RECOVERY OF RARE-EARTH ELEMENTS FROM DILUTE SOLUTIONS BY ION EXCHANGE PROCEDURES 67-09 M03-77754
THE EXTRACTION OF RARE METALS FROM FLUE DUSTS 67-10 M03-79075
CARBONATE METHOD FOR THE SEPARATION OF RARE-EARTH ELEMENTS 67-11 M03-81318
SEPARATION OF RARE EARTH METALS AND IRON BY DISTILLATION IN THE ELECTRON BOMBARDMENT FURNACE 67-12 M03-81816

RARE EARTH METALS, HEAT TREATMENT
HEAT TREATMENT OF SOME NONFERROUS, REFRACTORY, AND RARE METALS AND ALLOYS IN INERT ATMOSPHERES 67-08 M10-75098

RARE EARTH METALS, INTERMETALLICS
THE CRYSTAL STRUCTURES OF THE RARE-EARTH COMPOUNDS OF THE FORM R2NI17, R2CO17 AND R2FE17 67-01 M13-58536
SOME PHYSICAL AND CHEMICAL PROPERTIES OF RARE-EARTH METAL SILICIDES 67-01 M15-58200
MAGNETIC PROPERTIES OF THE INTERMETALLIC COMPOUNDS OF COBALT WITH THE RARE EARTH METALS AND YTTRIUM 67-01 M15-58648
MAGNETIC PROPERTIES OF RARE-EARTH-IRON INTERMETALLIC COMPOUNDS 67-01 M15-58655
MAGNETIC PROPERTIES OF RARE EARTH-MANGANESE COMPOUNDS 67-01 M15-58662
THE CRYSTAL STRUCTURES OF LUMN5 AND THE RMN12 COMPOUNDS --WHERE R EQUALS GD, TB, DY, HO, ER AND TM-- 67-02 M13-59096
RARE EARTH COBALT COMPOUNDS WITH THE A2B17 STRUCTURE 67-02 M13-59097
COMPOUNDS WITH TH6MN23-TYPE STRUCTURES IN ALLOYS OF THE RARE-EARTH METALS WITH MANGANESE AND IRON 67-02 M13-61789
COMPOUND OF RARE EARTH ELEMENTS WITH PB HAVING A GENERAL CHEMICAL FORMULA M5X3 67-05 M13-69128
NUCLEAR MAGNETIC RESONANCE AND MOSSBAUER EFFECT STUDY OF SN119 IN RARE EARTH-TIN INTERMETALLIC COMPOUNDS 67-05 M16-69788
STRUCTURES OF NEW RARE-EARTH COMPOUNDS. PT. 2 67-07 M13-72449
D88 PHASES OF THE RARE EARTH ELEMENTS WITH TIN AND LEAD 67-07 M13-73437
CRYSTALLINE STRUCTURES OF CERTAIN COMPOUNDS OF RARE-EARTH METALS WITH CADMIUM 67-07 M13-73482
SOME C11 B-TYPE COMPOUNDS OF SC, Y AND THE LANTHANIDES WITH CU, AG AND AU 67-08 M13-74784
INTERMETALLIC PHASES IN THE SYSTEMS OF ZINC WITH LANTHANUM, CERIUM, PRASEODYMIUM, NEODYMIUM, AND YTTRIUM 67-09 M13-77722
NUCLEAR MAGNETIC RESONANCE IN RARE-EARTH-ALUMINUM INTERMETALLIC COMPOUNDS.. RAL3 67-09 M16-77019

RARE EARTH METALS, MAGNETIC PROPERTIES
LOW-TEMPERATURE THERMOELECTRIC POWER AND MAGNETIC SUSCEPTIBILITY OF RARE EARTH METALS IN GOLD AND SILVER 67-07 M15-73295
MAGNETIC STRUCTURE OF THE RARE EARTH METALS 67-12 M15-82644

RARE EARTH METALS, MECHANICAL PROPERTIES
RARE METALS AND THEIR ALLOYS AS MATERIALS IN MODERN APPLICATIONS 67-11 M01-80395
ELASTIC MODULI AND DEBYE TEMPERATURES OF THE POLYCRYSTALLINE RARE-EARTH METALS AT 4.2 AND 300 K 67-12 M17-82101

RARE EARTH METALS, NUCLEAR FUELS
DISPERSION AND NONMETALLIC POISON MATERIALS 67-11 M16-80470

RARE EARTH METALS, PHYSICAL PROPERTIES
THE SOLUBILITY OF TANTALUM AND TUNGSTEN IN LIQUID RARE-EARTH METALS 67-03 M14-65131
VAPOUR PRESSURES OF THE RARE EARTH METALS, SCANDIUM AND YTTRIUM 67-12 M15-82127

RARE EARTH METALS, SURFACE PROPERTIES
SURFACE IONIZATION OF SOME RARE EARTH ELEMENTS ON HOT POLYCRYSTALLINE TUNGSTEN SURFACE 67-12 M16-81769

RARE GASES
SEE ALSO ARGON
HELIUM
KRYPTON
NEON
XENON

RARE GASES, COOLING
QUENCHING IN THE STREAM OF COMPRESSED GASES 67-02 M10-60856

RARE GASES, DIFFUSION
SURFACE DIFFUSION AND MOVEMENT OF BUBBLES OF INERT GASES IN COPPER 67-02 M14-58929

RARE METALS
SEE RARE EARTH METALS

RATE OF CREEP
ON SECOND-ORDER STRAIN ACCUMULATION IN TORSION FATIGUE 67-02 M17-61295
MECHANISM FOR VISCOUS GRAIN-BOUNDARY SLIDING 67-04 M14-66681
A THEORY OF STEADY-STATE CREEP BASED ON DISLOCATION CLIMB AND ACTIVE FRANK-READ SOURCES 67-04 M14-66897
EFFECT OF LOAD AND TEMPERATURE CYCLING ON CREEP RESISTANCE AND STRUCTURE OF ESSHETE 1250 67-04 M17-66730
EFFECT OF NITROGEN AND MANGANESE ON RECOVERY RATE AND FRICTION STRESS DURING CREEP OF IRON 67-04 M17-66995
ON THE HIGH-TEMPERATURE STRENGTH OF 0.35 PER CENT CARBON STEEL 67-04 M17-67595
THE HIGH-TEMPERATURE STRENGTH AND STRUCTURE OF THE AL-MGZN2 QUASIBINARY ALLOYS 67-05 M14-68882
THE HIGH-TEMPERATURE STRENGTH AND STRUCTURE OF THE AL-ZN BINARY ALLOYS 67-05 M17-68881

CREEP IN POTASSIUM AS A FUNCTION OF TEMPERATURE AND PRESSURE 67-06 M17-70683
ROOM-TEMPERATURE CREEP AND FATIGUE PROPERTIES OF TITANIUM ALLOYS 67-06 M17-70685
SOME VARIATIONS IN THE ACTIVATION ENERGY FOR CREEP IN NIMONIC 80A 67-06 M17-70876
CREEP--FATIGUE BEHAVIOR OF POLYCRYSTALLINE ZINC 67-06 M17-70956
MECHANISM OF BASAL CREEP IN MG-12 AT. PER CENT LI FROM 500 TO 885 K 67-06 M17-71078
MAGNETOELASTIC INTERACTION OF DISLOCATIONS AND FERROMAGNETIC DOMAIN WALLS AND TORSIONAL MICROCREEP EXPERIMENTS ON IRON AND NICKEL TUBES 67-07 M15-73565
STEADY-STATE CREEP OF DISPERSION-STRENGTHENED NICKEL 67-08 M14-75334
TIME-DEPENDENT CREEP AND SIMULTANEOUS STRUCTURAL CHANGES IN HEAT RESISTANT STEELS 67-08 M17-75697
THE DETERMINATION OF THE ACTIVATION VOLUME DURING CHANGE OF THE CREEP RATE, PARTICULARLY IN AG SINGLE CRYSTALS 67-08 M17-75783
EFFECT OF ALLOYING ELEMENTS ON THE AUSTENITE PROPERTIES OF CR-NI STEELS 67-08 M17-75884
YIELD STRENGTH AND LOW-TEMPERATURE CREEP IN AUSTENITIC STAINLESS STEELS 67-09 M17-76380
STEADY-STATE CREEP ANALYSIS OF THICK-WALLED ORTHOTROPIC CYLINDERS 67-09 M17-76449
HIGH-TEMPERATURE CREEP AND DISLOCATION ETCH PITS IN POLYCRYSTALLINE BERYLLIUM OXIDE 67-09 M17-76754
OXYGEN ABSORPTION AND CREEP STRENGTH OF SINTERED NICKEL ALUMINIDE 67-09 M17-78193
THE EFFECT OF OXYGEN AND CARBON ON THE CREEP STRENGTH OF NIOBIUM 67-10 M17-78449
CHANGE IN THE BLOCK STRUCTURE OF ALUMINUM IN THE COURSE OF CREEP 67-10 M17-79650
CHANGE IN THE DISLOCATION STRUCTURE OF SILICON IRON DURING CREEP 67-11 M13-80721
AN INTERPRETATION OF THE EFFECTS OF STRESS AND TEMPERATURE ON THE CREEP PROPERTIES OF A NICKEL-BASE SUPERALLOY 67-11 M17-80103
SOME OBSERVATIONS ON THE REPRODUCIBILITY OF CREEP RATE DETERMINATIONS 67-11 M17-80256
THE STRENGTH OF TUNGSTEN-FIBER-REINFORCED ALUMINUM COMPOSITES AT HIGH TEMPERATURES 67-11 M17-81057
THE MECHANISMS OF TERTIARY CREEP IN FACE CENTERED CUBIC METALS 67-11 M17-81267
THE KINETICS OF THE RECOVERY OF CREEP PROPERTIES DURING ANNEALING OF NIMONIC 80A AFTER CREEP AT 750 C 67-11 M17-81526
SHORT-TIME TENSILE AND LONG-TIME CREEP-RUPTURE PROPERTIES OF THE HK-40 ALLOY AND TYPE 310 STAINLESS STEEL AT TEMPERATURES TO 2000 F 67-12 M17-83240
THE THEORY OF NOTCH-BRITTLENESS IN STEELS OCCURRING DURING TIME-TO -RUPTURE TESTS 67-12 M17-83252

RATE OF CREEP, COOLING EFFECTS
INFLUENCE OF THE STRUCTURAL STATE ON THE SHORT-TERM CREEP AND DESTRUCTION OF AUSTENITIC STEEL 67-10 M17-79227

RATE OF CREEP, HEATING EFFECTS
EFFECT OF GRAIN SIZE AND ANNEALING TREATMENT ON STEADY-STATE CREEP OF COPPER 67-06 M17-69931
EFFECT OF THERMAL HARDENING CONDITIONS ON THE HEAT RESISTANT PROPERTIES OF KH18N10T STEEL 67-08 M17-74588

RATE OF CREEP, RADIATION EFFECTS
INFLUENCE OF NEUTRON IRRADIATION ON THE CREEP OF ZIRCALOY-2 AT 300 C 67-02 M17-59028
IN-REACTOR CREEP OF COLD-WORKED ZIRCALOY-2 67-07 M17-73395

RATE OF CREEP, STRESS EFFECTS
THE MECHANISM OF PRISMATIC CREEP IN MG-12 AT. PER CENT LI 67-06 M17-71959
THE STRESS DEPENDENCE OF THE CREEP RATE OF TWO COMMERCIAL GRAPHITES 67-09 M17-77139
THE STRESS SENSITIVITY OF CREEP OF LEAD AT LOW STRESSES 67-12 M17-82870

RATE OF CREEP, TEMPERATURE EFFECTS
CREEP DUCTILITY AND DIMENSIONAL INSTABILITY OF NICKEL AT 500 AND 525 C 67-01 M17-58458
INVESTIGATION OF CREEP AT VARIABLE TEMPERATURES 67-05 M17-69612

RATIOS
SEE POISSONS RATIO
STRESS RATIO

RAW MATERIALS, QUALITY CONTROL
CONTROL OF HEAT TREATMENTS BY ELECTROMAGNETIC METHODS 67-12 M19-83233

RAYLEIGH SCATTERING
SEE COHERENT SCATTERING
ELASTIC SCATTERING

REACTION ENTROPY
SEE ENTROPY OF REACTION

REACTION KINETICS
BEHAVIOR OF OXYGEN IN LIQUID STEEL AND PRINCIPLES OF DEOXIDATION KINETICS 67-01 M04-58242
CHANGE OF THE DISSOLVED OXYGEN CONTENT IN SILICON DEOXIDATION 67-01 M04-58308
THE KINETICS OF SULFURIZATION OF AG-ZN AND AG-AL ALLOYS IN SULFUR VAPORS 67-01 M14-57144
KINETICS OF THE CHLORINATION OF NIOBIUM PENTOXIDE WITH CHLORINE IN PRESENCE OF EXCESS OF GRAPHITE POWDER 67-01 M14-57497
A STUDY OF PRECIPITATION IN STAINLESS AND MARAGING STEELS USING THE MOSSBAUER EFFECT 67-01 M14-58463
THE ACTIVITY OF OXYGEN IN THE LIQUID FE-PT ALLOY SYSTEM 67-01 M15-58469
KINETICS OF DEPOSITION OF THIN LEAD SELENIDE FILMS 67-01 M16-57657
RATE OF DISSOLUTION OF SODIUM HYDROALUMOSILICATE IN ALKALINE SOLUTIONS 67-02 M02-61282
SLAG-METAL EQUILIBRIA IN TIN SMELTING 67-02 M03-60255
KINETICS OF THE REDUCTION OF THALLIUM SULPHIDE WITH CARBON MONOXIDE 67-02 M03-60730
REACTION KINETICS IN THE BLAST FURNACE 67-02 M04-60265
REACTION VELOCITIES IN THE BATH OF AN OXYGEN CONVERTER DURING REFINING OF A VANADIUM IRON 67-02 M04-60724
THE KINETICS OF AGING REACTIONS IN 18 PER CENT NI MARAGING STEELS 67-02 M14-59425
SPECIAL KINETIC FEATURES OF ZINC SULFIDE OXIDATION 67-02 M14-60089
DEGASSING KINETICS OF METAL-NITROGEN-SOLID SOLUTIONS. PT. 1. THEORETICAL CONSIDERATIONS 67-02 M14-60125
A KINETIC STUDY ON THE REACTION OF THE ALUMINA CRUCIBLE WITH CARBON DISSOLVED IN MOLTEN IRON 67-02 M14-60144
CHEMISTRY AT HIGH TEMPERATURES.. THE PROBLEM OF REDUCING CHEMICAL ATTACK 67-02 M14-60703
RATE OF OXIDATION OF DIVALENT IRON IN SLAG BY GASEOUS OXYGEN 67-02 M14-60728
THE ELECTROCHEMICAL MEASUREMENT OF THE ACTIVITY AND DIFFUSION OF OXYGEN IN METALS WITH ZIRCONIUM DIOXIDE AS THE SOLID ELECTROLYTE 67-02 M14-60825
GROWTH OF VANADIUM ON SILICON SUBSTRATES 67-02 M14-61766
KINETICS OF THE DECOMPOSITION OF A QUENCHED ALUMINUM-25 WT.- PER CENT ZINC ALLOY 67-02 M14-61839
ELECTROCHEMISTRY OF SURFACE OXIDES 67-02 M15-59449
ON THE KINETICS OF CHLORINATING CO3O4, FE2O3 AND COFE2O4 WITH GASEOUS CHLORINE 67-03 M03-65577
ON THE KINETICS OF CHLORINATING NIOBIUM PENTOXIDE 67-03 M03-65582
SCHOTTKY EMISSION AS A RATE-LIMITING FACTOR IN THERMAL OXIDATION OF METALS 67-03 M14-65025
KINETICS OF NEAR-EQUILIBRIUM REDUCTION OF WUSTITE 67-03 M14-65082
REACTION KINETICS OF STAGE 3 RECOVERY IN ALUMINIUM AFTER NEUTRON IRRADIATION 67-03 M14-65380
THE EFFECTS OF CRYSTALLOGRAPHIC ORIENTATION AND OXYGEN PRESSURE ON THE OXIDATION OF IRON 67-03 M14-65422
KINETICS OF NITROGEN TRANSFER THROUGH AN IRON SURFACE 67-03 M14-65425
THE FREE ENERGY OF FORMATION OF PALLADIUM OXIDE 67-03 M14-65426
THE KINETICS OF EPITAXIAL SILICON DEPOSITION BY THE HYDROGEN REDUCTION OF CHLOROSILANES 67-03 M14-65695
INVESTIGATION OF THE KINETICS OF DECOMPOSITION OF SUPERSATURATED SOLID SOLUTION OF D-16 ALLOY 67-03 M14-65788
HYDROGEN ATTACK OF STEEL UNDER DYNAMIC EXPOSURE CONDITIONS 67-03 M18-65405
THE KINETICS OF OXIDATION OF PLUTONIUM METAL AND A PLUTONIUM-3.4 AT. PER CENT ALUMINUM ALLOY AT

TEMPERATURES FROM 140 TO 550 C
67-03 M18-65420
FREE ENERGY OF FORMATION OF CUPRIC OXIDE
67-03 M18-65421
ELLIPSOMETRIC-POTENTIOSTATIC STUDIES OF IRON PASSIVITY. PT. 1. ANODIC FILM GROWTH IN SLIGHTLY BASIC SOLUTIONS 67-03 M18-65423
THE OXIDATION OF TUNGSTEN AT HIGH TEMPERATURES. THE SYSTEM W PLUS CO2 67-03 M18-65676
COMBUSTION IN FLUIDIZED BEDS 67-04 M02-67225
A STUDY OF THE REACTION TEMPERATURES OBTAINED DURING THE ISOTHERMAL REDUCTION OF IRON ORES
67-04 M03-66173
THE KINETICS OF HEMATITE REDUCTION BY PARTIALLY REFORMED NATURAL GAS 67-04 M03-66174
KINETIC STUDY ON THE HYDROGEN REDUCTION OF SOME NONFERROUS METAL OXIDES 67-04 M03-67030
DETERMINING THE DEGREE OF UTILIZATION OF HYDROGEN IN THE BLAST FURNACE 67-04 M04-66202
KINETICS OF MELTING OF STEEL SCRAP IN LARGE OPEN-HEARTH FURNACES 67-04 M04-66205
THERMODYNAMIC ANALYSIS OF THE REDUCTION OF CHROMIUM INCLUSIONS IN 20 PER CENT-CHROMIUM STEEL BY RARE EARTH METALS OF THE CERIUM SUBGROUP
67-04 M04-66608
APPARENT ACTIVATION ENERGY OF DECARBONISATION OF FE-C MELTS 67-04 M14-66308
OXIDATION OF AN FE-2.29 PER CENT NI ALLOY IN CARBON DIOXIDE AT 600-1000 C 67-04 M14-67195
CARBOTHERMIC REDUCTION OF SILICA
67-04 M14-67558
OXIDATION OF BISMUTH 67-04 M18-66541
MECHANISM OF THE INTERACTION OF ELEMENTARY TE AND SE WITH AL POWDER IN AN ALKALI MEDIUM
67-05 M03-68967
KINETIC CHARACTERISTICS OF REDUCTION OF IRON ORE PELLETS BY HYDROGEN AND BY METHANE
67-05 M04-69503
AGEING KINETICS OF ALLOYS OF THE SYSTEM AL-SI-CU-MG WITH MODIFYING ADDITIONS 67-05 M10-68834
A KINETIC STUDY OF THE HETEROGENEOUS REACTIONS OF METALLIC SODIUM WITH CHLORINE AND BROMINE
67-05 M14-68616
KINETICS OF THE OXYGEN-TUNGSTEN REACTION AT HIGH TEMPERATURES 67-05 M14-68747
FORMATION OF HOLLOW WHISKERS FROM METALS BY REACTION WITH FERICYANIDE AND FERROCYANIDE
67-05 M14-69427
THE TRANSITION FROM THE LINEAR TO THE PARABOLIC RATE LAW FOR THE OXIDATION OF A METAL TO AN OXIDE WITH A METAL DEFICIT 67-05 M18-69149
OXIDATION OF FE-TI ALLOYS IN CO-CO2 MIXTURES
67-05 M18-69472
THE KINETICS OF THE OXIDATION OF AL IN OXYGEN AT HIGH TEMPERATURE 67-05 M18-69703
A KINETIC AND MORPHOLOGICAL STUDY OF THE OXIDATION OF TI-CR ALLOYS IN CO2 AT 1000 C
67-05 M18-69704
THE SUPERSONIC FLOW CONDITIONS FOR GASEOUS OXYGEN AT A LAVAL NOZZLE. PT. 1. --KINETICS OF BLOWING REACTIONS IN BASIC OXYGEN LD FURNACES--
67-06 M01-72274
GENERALIZED MODEL FOR THE GASEOUS, TOPOCHEMICAL REDUCTION OF POROUS HEMATITE SPHERES
67-06 M02-71612
APPLICATION OF A GENERALIZED RATE EQUATION TO THE GASEOUS REDUCTION OF IRON OXIDE
67-06 M04-69902
KINETICS OF SILICA REDUCTION BY CARBON-SATURATED IRON. PT. 2. REDUCTION OF SOLID SILICA BY CARBON IN LIQUID IRON 67-06 M04-70811
EFFECT OF INTENSITY OF OXYGEN FEED IN THE CONE ON THE PERFORMANCE AND OXIDIZING CAPACITY OF A 900-TON OPENHEARTH FURNACE 67-06 M04-71244
OPERATING PRACTICES REQUIRED TO OPTIMIZE BLAST FURNACE PERFORMANCE 67-06 M04-72078
REDUCTION OF A MIXTURE OF ORE AND COKE BY MEANS OF A HYDROGEN PLUS CARBON MONOXIDE PLUS NITROGEN MIXTURE 67-06 M04-72381
REACTION BETWEEN LIQUID STEEL AND REFRACTORIES UNDER VACUUM. PT. 2. STUDY OF REFRACTORIES USED IN STEELMAKING 67-06 M04-72392
METASTABLE EVAPORATED THIN FILMS OF CU-AG AND CO-AU ALLOYS. PT. 2. KINETICS OF THE TRANSFORMATIONS
67-06 M14-70408
DISSOLUTION KINETICS OF NUCLEAR FUELS. PT. 1. URANIUM 67-06 M14-70480
THORIUM 67-06 M14-70481
NATURAL AGING KINETICS OF LEAD-CADMIUM ALLOYS
67-06 M14-71124
INTERFACIAL REACTIONS IN LEAD OXIDE-BEARING ENAMEL-METAL SYSTEMS 67-06 M14-71163
REACTION BETWEEN VITREOUS SILICA AND MOLTEN ALUMINUM 67-06 M14-71165
DEFECT CHARACTERIZATION IN THE PRECIPITATION FROM CAO..YB203 CRYSTALLINE SOLUTIONS
67-06 M14-71166
MEASUREMENT OF NITRIDE KINETICS ON CHROMIUM BY ELLIPSOMETRY 67-06 M14-71622
KINETICS OF THE ATTACK OF HIGH-TEMPERATURE MOLYBDENUM AND TUNGSTEN BY ATOMIC OXYGEN
67-06 M14-72165
KINETICS OF TANTALUM CORROSION IN AQUEOUS ELECTROLYTES 67-06 M18-72172
RADIOACTIVE ISOTOPE INVESTIGATION OF THE REDUCTION KINETICS OF SOME CHEMICAL COMPOUNDS OF ZN IN TUBULAR FURNACES 67-07 M03-73040
REDUCTION MECHANISM OF TIN CONCENTRATE AND SLAG
67-07 M03-73412
SENSITIVE RESONANT FREQUENCY TECHNIQUE FOR THE STUDY OF SINTERING KINETICS 67-07 M09-72828
THE ELEVATED TEMPERATURE REACTIVITY IN BORON METAL MATRIX COMPOSITE MATERIALS 67-07 M09-73365
ADSORPTION, ABSORPTION, AND DEGASSING IN THE OXYGEN-NIOBIUM SYSTEM AT VERY LOW PRESSURE
67-07 M14-73453
SOME HIGH-TEMPERATURE KINETICS PROBLEMS IN PYROMETALLURGY--THE USE AND LIMITATIONS OF CHEMICAL ENGINEERING METHODS 67-07 M14-73469
THE RECOVERY KINETICS OF DEFORMED COPPER-PALLADIUM AND GOLD-PALLADIUM ALLOYS 67-07 M14-73909
THE INTERNAL OXIDATION OF CU-SI ALLOYS
67-07 M14-73910
REFRACTORIES IN HYDROGEN ATMOSPHERES
67-07 M14-74012
KINETICS AND MECHANISM OF THE DISSOLUTION OF URANIUM DIOXIDE 67-07 M15-74261
KINETICS OF TANTALUM CORROSION IN AQUEOUS ELECTROLYTES. PT. 2 67-07 M18-73457
EFFECT OF PH ON THE CONDITION OF THE PYRITE SURFACE
67-08 M02-75086
PHYSICS OF CONVERTERS IN STEELMAKING
67-08 M04-74882
THE KINETICS OF ALUMINUM DEOXIDATION OF STEEL
67-08 M04-75314
THE APPLICATION OF CHEMICAL KINETICS TO IRONMAKING PROCESS 67-08 M04-75546
MATERIAL TRANSFER BETWEEN THE GAS STREAM AND THE ORE IN A BLAST FURNACE 67-08 M04-75657
MUTUAL SINTERING OF GRAINS OF NONSPHERICAL FORM
67-08 M09-75426
FORMATION MECHANISM AND STRUCTURAL FEATURES OF PYROLYTIC GRAPHITE 67-08 M14-74417
KINETICS AND MECHANISM OF THE ELECTRODE REACTIONS ON IRON IN NITRATE SOLUTIONS 67-08 M14-74789
THERMODYNAMIC-KINETIC DATA ON THE RATE OF ELECTRODE REACTIONS ON THE IRON/ACID SOLUTION SYSTEM 67-08 M14-75064
KINETIC STUDIES OF THE DISSOLUTION OF BRASS
67-08 M14-75400
USE OF THEMAL CONDUCTIVITY GAS ANALYSIS FOR THERMODYNAMIC MEASUREMENTS ON THE DISSOCIATION OF CUO, MN203 AND MNO2 67-08 M15-76055
ELECTROKINETIC STUDIES ON OXIDIZED ALUMINUM SURFACES 67-08 M18-74788
KINETICS OF OXIDATION OF TE 67-08 M18-75903
EFFECT OF HALIDE ADDITIONS ON ANODIC BEHAVIOR OF NICKEL IN SULFURIC ACID SOLUTIONS
67-08 M18-76189
KINETICS OF THE CHLORINATION OF NIOBIUM PENTOXIDE WITH CHLORINE IN PRESENCE OF EXCESS OF GRAPHITE POWDER 67-09 M02-78138
KINETICS OF THERMAL DECOMPOSITION OF CERUSSITE
67-09 M03-77035
REDUCTION KINETICS OF ZINC OXIDE WHEN REDUCED WITH CARBON OXIDE 67-09 M03-77112
REDUCTION KINETICS OF IRON OXIDE PELLETS WITH HYDROGEN AT LOWER TEMPERATURES
67-09 M04-77985
HYDROGEN REDUCTION OF IRON OXIDE AT HIGH TEMPERATURES 67-09 M04-78250
THE SINTERING PROCESS 67-09 M09-77545
TRANSFORMATION KINETICS OF THE ALPHA TO BETA AND DELTA TO ALPHA TRANSITIONS IN PURE AND ALLOYED PLUTONIUM 67-09 M14-76306
INFLUENCE OF SURFACE TREATMENT ON THE OXIDATION KINETICS OF CALCIUM 67-09 M14-76457
ELECTRON MICROSCOPE OBSERVATIONS ON THE OXIDATION

OF ZIRCONIUM. A CONTRIBUTION TO THE CUBIC KINETIC THEORY 67-09 M14-76513
THE KINETICS AND MECHANISM OF FLUORINATION OF COPPER OXIDE. PT. 2. THE REACTION OF FLUORINE WITH COPPER --I-- OXIDE 67-09 M14-76599
STRUCTURE AND GROWTH OF THIN FILMS ON METALS EXPOSED TO OXYGEN 67-09 M14-76645
MECHANISM OF TIC SYNTHESIS IN THE PRESENCE OF HYDROCARBONS 67-09 M14-76882
ELECTRODE KINETICS 67-09 M14-77011
KINETICS OF THE HARDENING AND WEAKENING OF HIGH-TEMPERATURE ALLOYS STUDIED TO SELECT THE TEMPERATURE RANGE FOR HOT PLASTIC DEFORMATION AND HEAT TREATMENT 67-09 M14-77051
KINETICS OF THE REACTION OF STABLE SODIUM HYDROALUMINOSILICATE WITH ALKALI AND HIGH-MODULE ALUMINATE SOLUTIONS 67-09 M14-77072
ACTIVATION ENERGY AND FACTOR, DETERMINING GRAPHITIZATION OF WHITE CAST IRON 67-09 M14-77280
FUEL-WATER REACTIONS 67-09 M14-77317
METAL--WATER REACTIONS 67-09 M14-77320
KINETICS OF THE REACTION OF REMOVAL OF HYDROGEN AND NITROGEN FROM LIQUID STEEL 67-09 M14-77354
KINETIC STUDIES OF FLUORINATION OF URANIUM CARBIDES BY FLUORINE. PT. 2. FLUORINATION OF URANIUM DICARBIDE 67-09 M14-78052
PLATINUM OXIDATION KINETICS WITH CONVECTIVE DIFFUSION AND SURFACE REACTION 67-09 M18-76622
SPECIAL FEATURES OF THE KINETICS OF OXIDATION OF MANGANESE 67-09 M18-77043
EFFECT OF HEATING SINGLE CRYSTAL COPPER IN H2 AND N2 ON THIN-FILM OXIDATION KINETICS 67-09 M18-77886
ROASTING IN EXTRACTIVE METALLURGY--A THERMODYNAMIC AND KINETIC REVIEW 67-10 M02-79946
KINETICS OF DISSOLUTION OF SYNTHETIC COVELLITE IN AQUEOUS ACIDIC FERRIC SULPHATE SOLUTIONS 67-10 M02-79949
CHEMISTRY OF THE COPPER CONVERTER 67-10 M03-79376
KINETICS OF CHARGE REDUCTION IN THE PRODUCTION OF 45 PER CENT-FERROSILICON 67-10 M04-79323
ON THE MECHANISM AND KINETICS OF REDUCTION OF A MIXTURE OF IRON AND ZINC OXIDES BY CARBON MONOXIDE 67-10 M04-79830
INVESTIGATION OF THE SURFACE REACTIONS ON COPPER BY SLOW ELECTRON DIFFRACTION METHOD. PT. 2 67-10 M14-79569
THE KINETICS OF THE DECARBURIZATION OF MALLEABLE CAST IRON INVESTIGATED BY MEASURING THE RADIOACTIVITY OF THE DECARBURIZING GAS 67-10 M14-79659
SIGMOID OXIDATION OF POWDERED ALPHA-TUNGSTEN SPECIMENS UNDER OXYGEN PRESSURE OF 10-1 TO 10-3 TORR 67-10 M14-79712
NATURAL AGING KINETICS OF AL-CU AND AL-CU-MG ALLOYS 67-10 M14-79914
KINETIC STUDY OF THE ABSORPTION OF OXYGEN FROM THE AIR BY LIQUID SILVER 67-10 M14-79924
DECOMPOSITION OF COPPER, ZINC AND IRON FERRITES DURING THEIR REACTION WITH MATTE 67-10 M14-80046
REACTION KINETICS IN THE SYSTEM K2O-NA2O-AL2O3-SIO2-H2O 67-10 M14-80058
REACTION KINETICS IN THE SYSTEM NA2O-AL2O3-SIO2-H2O 67-10 M14-80060
THE ANODIC OXIDATION OF ALUMINUM IN THE PRESENCE OF A HYDRATED OXIDE 67-10 M15-79967
REACTION OF TUNGSTEN-COBALT ALLOYS WITH OXYGEN AT 1000 AND 1100 K 67-10 M18-78637
EFFECT OF HEATING RATES AND TOTAL DEVELOPED HEAT ON THE REDUCTION PROCESS IN MIXTURES OF ORE AND CARBON 67-11 M04-80337
METHODS OF INVESTIGATING DEGASSING KINETICS DURING VACUUMING OF STEEL 67-11 M04-81012
METHOD FOR INVESTIGATING DEGASSING OF STEEL DURING VACUUMING 67-11 M04-81013
STABILITY OF ELECTROLESS CHEMICAL COPPER-PLATING SOLUTIONS 67-11 M12-81289
KINETICS AND MECHANISM OF THE HIGH-TEMPERATURE SULPHURIZATION OF NICKEL-CHROMIUM ALLOYS 67-11 M14-80359
URANIUM METAL AND ALLOYS 67-11 M14-80460
REDUCTION OF OXYGEN ON IRON AND IONIZATION OF IRON IN THE PRESENCE OF DISSOLVED OXYGEN 67-11 M14-81276
KINETICS OF THE REACTION OF IRON, NICKEL AND COBALT OXIDES WITH GRAPHITE 67-11 M14-81372
NITROGEN ABSORPTION AND DESORPTION BY LIME-ALUMINA SLAG 67-11 M14-81643
KINETICS OF OPTICAL CHARGE EXCHANGE IN COPPER-DOPED CADMIUM SULPHIDE SINGLE CRYSTALS 67-11 M15-81687
THE KINETICS OF THE RECOVERY OF CREEP PROPERTIES DURING ANNEALING OF NIMONIC 80A AFTER CREEP AT 750 C 67-11 M17-81526
THE KINETICS OF THE OXIDATION PROCESS IN NICKEL-CHROMIUM-BASE ALLOYS 67-11 M18-80360
STUDIES ON THE MECHANISM AND KINETICS OF THE OXIDATION OF COPPER SULFIDE. PT. 2. OXIDATION OF COPPER SULFIDE MIXED WITH ALUMINA IN A FLUIDIZED BED 67-12 M02-82943
STUDIES ON THE MECHANISM AND KINETICS OF THE OXIDATION OF COPPER SULFIDE. PT. 1. OXIDATION OF COPPER SULFIDE IN A FIXED BED 67-12 M02-83000
FACTORS INFLUENCING THE KINETICS OF NICKEL LEACHING IN AN AMMONIA SOLUTION 67-12 M03-81785
DECARBURIZATION OF IRON-CARBON MELTS IN CO2-CO ATMOSPHERES--KINETICS OF GAS-METAL SURFACE REACTIONS 67-12 M04-82955
CONTRIBUTION TO THE KNOWLEDGE OF THE PHENOMENA OCCURRING DURING THE REDUCTION OF PURE IRON OXIDES. PT. 1. INVESTIGATIONS ON THE KINETICS OF REDUCTION OF IRON OXIDES CONSIDERING PARTICULARLY THE POROSITY AS WELL AS THE ABSOLUTE AND PARTIAL PRESSURE OF THE COMPONENTS OF THE GAS PHASE 67-12 M04-83391
THE TEMPERATURE DEPENDENCE OF THE MAXIMUM ELECTRICAL RESISTANCE DURING AGING OF ALUMINUM ALLOYS 67-12 M10-83408
THE OXIDATION MECHANISM OF PURE URANIUM IN CARBON MONOXIDE BETWEEN 700 AND 1000 C 67-12 M14-81828
METHOD OF INVESTIGATING THE KINETICS OF THE INTERACTION OF TWO LIQUID PHASES UNDER CONTROLLED CONVECTION CONDITIONS 67-12 M14-82105
A KINETIC STUDY OF COPPER PRECIPITATION ON IRON. PT. 2 67-12 M14-82734
THE REACTIONS OF LIQUID TITANIUM AND HAFNIUM WITH CARBON 67-12 M14-82878
THE KINETICS OF REVERSION OF SPHERICAL GUINIER-PRESTON ZONES 67-12 M14-83124
BEHAVIOR OF COPPER IN A GASEOUS FLUORIDATING MEDIUM 67-12 M14-83231
MASS BEHAVIOR IN THE OXIDATION OF TANTALUM 67-12 M15-83230
KINETICS OF THE OXIDATION OF TANTALUM BY WATER VAPOR 67-12 M18-82568
REACTION KINETICS, TEMPERATURE EFFECTS
RATE-CONTROLLING PROCESSES IN THE HIGH-TEMPERATURE OXIDATION OF TANTALUM 67-07 M14-73449
REACTION KINETICS, WELDING EFFECTS
TRANSFORMATIONS AND REACTIONS IN THE TRANSFORMATION ZONE DURING WELDING AND OXYGEN CUTTING 67-09 M14-77976
REACTION SINTERING
SEE ACTIVATED SINTERING
REACTIONS /CHEMICAL/
SEE ALSO ALUMINOTHERMIC REACTIONS
BROMINATION
CARBONIZING
CARBOTHERMIC REACTIONS
CATALYTIC CRACKING
CHLORINATION
DECOMPOSITION REACTIONS
DEHYDROGENATION
DENITRATION
DEOXIDIZING
DESULFURIZING
DEZINCIFICATION
ENDOTHERMIC REACTIONS
EXOTHERMIC REACTIONS
FLUORINATION
HYDROGENATION
HYDROLYSIS
INTERNAL OXIDATION
IONIZATION
ISOMERIZATION
NITRATION
NITRIFICATION
OXIDATION
PYROLYSIS
RADIOLYSIS
SEQUESTERING

SILICOTHERMIC REACTIONS
SULFATION
XANTHATION
HYDRODYNAMIC INVESTIGATION OF TUYERES ARRANGED IN MANY ROWS IN SIDE-BLOWN CONVERTERS 67-01 M04-58151
REFRACTORY REACTIONS WITH METAL OXIDES 67-01 M04-58477
CHEMICALLY REACTIVE CRYSTAL DEFECTS IN ELECTRODEPOSITED NICKEL 67-01 M13-58235
THE INTERACTION BETWEEN MANGANESE OXIDES AND SULFUR GAS IN AQUEOUS SOLUTIONS 67-01 M14-58150
EFFECTIVENESS OF NITROETHANE AS A HYDROGEN DIFFUSION INHIBITOR 67-01 M14-58515
ELECTROCHEMICAL STUDIES ON CORROSION RESISTANCE OF NICKEL-CHROMIUM ELECTROPLATES 67-01 M18-58236
CARBOTHERMAL PRODUCTION OF LEAD-CALCIUM ALLOYS 67-02 M03-59574
REACTION KINETICS IN THE BLAST FURNACE 67-02 M04-60265
A STUDY OF U PLUS CUC REACTION IN THE SOLID STATE, IN MIXED U AND C POWDERS. PT. 3. A STUDY BY DIFFERENTIAL-THERMAL ANALYSIS 67-02 M09-60746
REACTION OF ALUMINUM WITH HYDROGEN AND POTASSIUM FLUORIDE 67-02 M14-59130
A KINETIC STUDY ON THE REACTION OF THE ALUMINA CRUCIBLE WITH CARBON DISSOLVED IN MOLTEN IRON 67-02 M14-60144
INTERACTION OF OXYGEN WITH HOT TUNGSTEN 67-02 M14-60587
INTERACTION OF BORON WITH TUNGSTEN SINGLE CRYSTAL SUBSTRATES 67-02 M14-61572
CONTACT INTERACTION OF TIN WITH TI, ZR AND V IN VACUUM 67-02 M14-62243
A METHOD OF PRODUCING HETEROJUNCTIONS BETWEEN COMPOUND SEMICONDUCTORS BY ALLOYING AND SUBSTITUTION REACTION 67-02 M16-59075
PROCESSING OF V3GA WIRES AND THEIR SUPERCONDUCTING PROPERTIES 67-02 M16-60517
ON THE RATE OF FORMATION OF WOLFRAMATES OF CERTAIN RARE EARTH ELEMENTS DURING HIGH TEMPERATURE SYNTHESIS 67-03 M14-65586
STUDY OF HIGH-TEMPERATURE INTERACTION IN THE TIC-ZRO2 SYSTEM 67-03 M15-65912
CRITICAL COMPARISON OF SLAG/METAL REACTIONS IN THE LD AND KALDO PROCESSES AT CONSETT 67-04 M04-67416
PHYSICO-CHEMICAL INVESTIGATIONS ON STEELMAKING PROCESSES IN JAPAN 67-04 M04-67543
FORMATION OF ALKALI SILICATES AND ALUMINO-SILICATES AND THEIR OCCURRENCE IN BLAST FURNACES 67-04 M14-66139
CARBON AND NITROGEN TRANSFER IN A TYPE-316 STAINLESS STEEL, CB-1 PER CENT ZR, LIQUID-POTASSIUM SYSTEM 67-04 M14-66389
STUDY OF THE REACTION BETWEEN METAL AND MOLTEN SALTS. PT. 1. DISSOLUTION OF COPPER IN MOLTEN BISMUTH TRICHLORIDE 67-04 M15-66275
A RADIOTRACER STUDY ON THE REACTION BETWEEN ZINC AND CHROMATE. PT. 2. THE CORROSION OF ZINC IN DILUTE CHROMATE SOLUTIONS 67-04 M18-66691
A STUDY OF THE COMPATIBILITY OF SELECTED REFRACTORY METALS WITH VARIOUS CERAMIC INSULATION MATERIALS 67-04 M18-67270
COMBINED PROCESSING OF ALUMOSILICATE SLAGS WITH NEPHELINE 67-05 M03-68229
EFFECT OF AGING TIME ON PROGRESS OF CHEMICAL REACTIONS BETWEEN POWDERED BRASS SURFACES AND STEARIC ACID 67-05 M09-69280
KINETICS OF THE OXYGEN-TUNGSTEN REACTION AT HIGH TEMPERATURES 67-05 M14-68747
ON THE INTERACTION OF SCANDIUM OXIDE WITH TUNGSTEN TRIOXIDE 67-05 M14-68966
LIQUID ALKALI METALS AS REACTION MEDIA 67-05 M14-69279
FORMATION OF HOLLOW WHISKERS FROM METALS BY REACTION WITH FERICYANIDE AND FERROCYANIDE 67-05 M14-69427
TOPOTAXY IN DECOMPOSITION OF CRO2 67-05 M15-68613
HIGH TEMPERATURE REACTIONS OF BORON NITRIDE WITH ALUMINUM 67-05 M15-69422
POSSIBILITY OF USING CARBONATE ORES TO OBTAIN FERROMANGANESE 67-06 M02-70157
REACTION BETWEEN LIQUID STEEL AND REFRACTORIES UNDER VACUUM. PT. 2. STUDY OF REFRACTORIES USED IN STEELMAKING 67-06 M04-72392
STUDY OF NITROGEN-CONTAINING LOW-ALLOY STEEL 67-06 M13-70914
INVESTIGATIONS INTO THE MECHANISM OF THE REACTIONS OF SULPHUR AND MANGANESE IN CARBON-SATURATED IRON UNDER A CAO-SIO2-AL2O3 SLAG 67-06 M14-70255
INFLUENCING SULPHUR ACTIVITY IN CARBON-SATURATED HOT METAL BY ADDING MANGANESE, PHOSPHORUS, OR CHROMIUM 67-06 M14-70256
THE REACTION OF SOME NOBLE AND TRANSITION METALS WITH REFRACTORY CARBIDES 67-06 M14-70892
THE COMPATIBILITY OF GRAPHITE WITH CESIUM 67-06 M14-71056
INTERFACIAL REACTIONS IN LEAD OXIDE-BEARING ENAMEL-METAL SYSTEMS 67-06 M14-71163
REACTION BETWEEN VITREOUS SILICA AND MOLTEN ALUMINUM 67-06 M14-71165
THE DISSOLUTION MECHANISM OF ZINC-FERRITE. PT. 4. STUDY ON ZINC-FERRITE 67-06 M14-71735
LOW-TEMPERATURE PHOTO-CHEMICAL REACTIONS IN IN4S5 SINGLE CRYSTALS 67-06 M14-71756
KINETICS OF THE ATTACK OF HIGH-TEMPERATURE MOLYBDENUM AND TUNGSTEN BY ATOMIC OXYGEN 67-06 M14-72165
REACTIONS BETWEEN VACANCIES AND IMPURITIES IN MAGNESIUM OXIDE. PT. 1. CR3 PLUS-ION IMPURITIES 67-06 M14-72197
REACTIONS BETWEEN VACANCIES AND IMPURITIES IN MAGNESIUM OXIDE. PT. 2. MN4 PLUS-ION AND OH EQUALS -ION IMPURITIES 67-06 M14-72198
CHEMISTRY OF METALS OF TUNGSTEN 67-06 M15-70163
STUDY OF THE INTERACTION OF INDIUM WITH ITS TRICHLORIDE 67-06 M15-72114
COMPARISON OF THE METALLURGICAL POSSIBILITIES OF HOT AND COLD BLAST OPERATION IN THE CUPOLA. PT. 2. RELATIONSHIPS IN REGARD TO OXIDATION LOSS AND PICK-UP BY REDUCTION OF IRON AND ITS COMPANION ELEMENTS 67-07 M04-73249
INTERACTION OF ELEMENTS OF THE PERIODIC TABLE 67-07 M14-72510
METALLOCHEMISTRY OF GERMANIDES 67-07 M14-73274
LANTHANUM GERMANIDES 67-07 M14-73275
CHEMICAL VAPOR GROWTH OF SINGLE-CRYSTAL MAGNETIC OXIDE FILMS 67-07 M14-73523
REFRACTORIES IN HYDROGEN ATMOSPHERES 67-07 M14-74012
KINETICS AND MECHANISM OF THE DISSOLUTION OF URANIUM DIOXIDE 67-07 M15-74261
INTERMETALLIC COMPOUND FORMATION BETWEEN COBALT AND ZINC IN MERCURY 67-08 M14-74677
USES IN METALLURGICAL AND CHEMICAL REACTIONS 67-08 M20-74837
ON THE DESTRUCTION OF MAGNETITE IN THE CONVERTER 67-09 M04-77110
THE COMPATIBILITY OF MIXED OXIDES AND CARBIDES WITH REFRACTORY METALS 67-09 M14-76350
THE COMPATIBILITY OF TYPE 316L STAINLESS STEEL WITH MIXED URANIUM-PLUTONIUM CARBIDES 67-09 M14-76351
THE KINETICS AND MECHANISM OF FLUORINATION OF COPPER OXIDE. PT. 2. THE REACTION OF FLUORINE WITH COPPER --I-- OXIDE 67-09 M14-76599
PREPARATION OF THORIUM CARBIDES 67-09 M14-76753
FUEL-WATER REACTIONS 67-09 M14-77317
EFFECT OF A MECHANICAL ACTIVATION OF THE SURFACE OF STEEL SHEETS ON THEIR CHEMICAL REACTIVITY 67-09 M14-77852
REACTIONS OF COMPOUNDS IN THE NB-C-O SYSTEM WITH CO OR CO2 67-09 M14-78220
ON THE REACTION OF SELENIUM DIOXIDE WITH LEAD SULFIDE 67-10 M03-79828
TITANIUM CARBIDE FORMATION 67-10 M09-79980
THE INTERACTION OF TITANIUM CARBIDE AND WATER 67-10 M14-79347
REFRACTORY-MELT REACTIONS IN VACUUM INDUCTION MELTING OF NICKEL-BASE ALLOYS 67-10 M14-79430
THE ACTION OF ALKALI ON TRANSITION-METAL CARBIDES 67-10 M14-79602
BEHAVIOR OF CARBON IN SYSTEMS OF THE METAL-MOLTEN LITHIUM-CARBON TYPE 67-10 M14-79640
REACTION RATE OF SOLID YTTRIUM METAL WITH MOLTEN LITHIUM FLUORIDE 67-10 M14-79688
REACTION OF AN IRON-CARBON DROPLET DURING FREE FALL THROUGH OXYGEN 67-10 M14-79765
ON THE REACTION OF THE COMPONENTS OF BASIC REFRACTORIES WITH COPPER OXIDES DURING SERVICE IN

A COPPER REFINING FURNACE 67-11 M03-81633
APPLICATION OF THE REACTIONS CONCERNING H2 AND STEAM AND THE TEMPERATURE OF TOP GAS TO THE BLAST FURNACE MODEL 67-11 M04-80940
CHANGE IN CHEMICAL COMPOSITION OF RIMMING CONVERTER STEEL IN THE LADLE ON POURING 67-11 M04-81443
CORROSION OF MAGNESITE BRICK BY FAYALITE SLAGS, WITH AND WITHOUT ADDED CALCIUM OXIDE 67-11 M04-81464
INTERACTION BETWEEN ELEMENTS IN THE PERIODIC TABLE 67-11 M06-80896
ABSORPTION OF GASEOUS HYDROGEN BY ZIRCALLOY-2 67-11 M14-80309
REACTIONS OF METAL CHLORIDES AND CHLOROMETALLATE SLATS WITH RED PHOSPHORUS 67-11 M14-80313
REACTION OF SODIUM CHLORIDE WITH DYSPROSIUM AND GADOLINIUM CHLORIDES 67-11 M14-81310
EXPLOSIVE PRESSURE OF NICKEL ALLOY AEROSOLS 67-11 M15-81644
THE INFLUENCE OF MECHANICAL PROCESSES IN AN OXYGEN CONVERTER AND THEIR SIGNIFICANCE FOR THE IMPORTANT REACTIONS 67-12 M04-81959
PREPARATION OF CHROMIUM SULFIDES 67-12 M14-81817

REACTIONS /CHEMICAL/, ALLOYING EFFECTS
METAL-REFRACTORY REACTION STUDIES IN THE IRON-CHROMIUM-SILICA SYSTEM 67-08 M14-75035
THE EFFECT OF ADDITIONS OF MANGANESE, VANADIUM AND CHROMIUM ON THE ACTIVITY OF OXYGEN IN MOLTEN IRON 67-08 M14-76051

REACTIONS /CHEMICAL/, TEMPERATURE EFFECTS
SOME STUDIES OF THE HIGH TEMPERATURE BEHAVIOR OF PUO2 AND PUO2-UO2 MIXTURES 67-09 M14-76347

REACTIONS /NUCLEAR/
SEE ALSO CAPTURE /NUCLEAR/
NUCLEAR FISSION
RADIOACTIVE DECAY
THERMONUCLEAR REACTIONS
TEN YEARS OF NUCLEAR RESEARCH IN STEELMAKING OPERATIONS 67-03 M04-65802
ATOMIC DISPLACEMENT AND IMPURITY EFFECTS IN FISSILE METALS 67-04 M16-67321
CALCULATIONS AND MEASUREMENTS OF THE QUANTITIES OF HELIUM PRODUCTS BY REACTIONS IN IRRADIATED BERYLLIUM 67-07 M16-74238
MEASUREMENT OF NEUTRON SLOWING DOWN TIME IN GRAPHITE 67-08 M16-75606
IRRADIATION PROPERTIES OF HIGH ENERGY RATE PNEUMATICALLY-IMPACTED UO2-PUO FUELS 67-09 M16-76356

REACTIVATION
SEE ACTIVATION

REACTIVITY /CHEMICAL/
SEE ACTIVITY /CHEMICAL/

REACTOR CORES, CASTING
CASTING OF ZIRCALOY-URANIUM CORES FOR HWCTR DRIVER TUBES 67-07 M06-73152

REACTOR FUELS
SEE NUCLEAR FUELS

REACTOR VESSELS /CHEMICAL/
SEE CHEMICAL REACTORS

REACTOR VESSELS /NUCLEAR/
SEE NUCLEAR REACTORS

REACTORS
SEE ALSO BREEDER REACTORS
CHEMICAL REACTORS
NUCLEAR POWER REACTORS
NUCLEAR REACTORS
PRESSURIZED WATER REACTORS
NEW PROCESS FOR IRON PRODUCTION IN A REACTOR 67-08 M04-75398

REAGENTS
SEE FLOTATION REAGENTS

REAMING
GUN REAMING SIMPLIFIES VALVE PRODUCTION 67-01 M08-57230
IMPROVED REAMER REDUCES MACHINING TIME 67-03 M08-65482
PRECISION FINISHING OF FERRITE AND CERAMIC MAGNETIC COMPONENTS 67-07 M08-73830
THE DRILLING AND THE REAMING OF ALUSIL 67-08 M08-75376

RECEPTACLES /CONTAINERS/
SEE CONTAINERS

RECLAMATION
RECLAIMING STEEL CASTING MOLDS BY BUILDUP 67-04 M12-66574
IRON POWDER FROM PICKLING WASTES 67-06 M09-72214
FOR THAT FINAL SUBMERGED ARC ECONOMY--RECOVER THE FLUX 67-06 M11-71572
STEEL LADLES RECONDITIONED BY BUILDING UP 67-07 M12-73431

RECONDITIONING
GENERAL TECHNOLOGICAL INSTRUCTIONS ON BUILDING UP ROLLS FOR TUBE MILLS 67-02 M11-61064

RECORDERS
SEE GEIGER MUELLER COUNTERS
RADIATION COUNTERS
RECORDING INSTRUMENTS
SCINTILLATION COUNTERS

RECORDING INSTRUMENTS
RECORDING EQUIPMENT FOR MEASUREMENTS OF INTERNAL FRICTION AND ELASTIC MODULUS OF METALS AT LOW FREQUENCIES 67-08 M17-74424

RECOVERING
SEE ALSO RECLAMATION
A HYPOCHLORIDE METHOD OF TREATING DUST WASTES FROM CERMET TOOL SHARPENING 67-01 M02-57310
TECHNOLOGY OF GOLD RECOVERY FROM CARBONACEOUS GOLD-ARSENIC CONCENTRATES 67-01 M03-58195
METHOD OF PREPARING ALLOYS CONTAINING CHROMIUM FROM SCRAP 67-02 M04-59589
FURTHER DEVELOPMENTS IN THE CHEMICAL TREATMENT OF LOW-GRADE IRON ORES AT APPLEBY-FRODINGHAM 67-04 M02-67019
NONFERROUS METALS AND THE CHEMICAL ENGINEER. PT. 4. LEAD, ZINC, AND MOLYBDENUM 67-04 M03-66332
AN AQUEOUS CHLORINATION PROCESS FOR THE TREATMENT OF MERRILL SLIMES AND GRAVITY CONCENTRATES FROM GOLD ORES. PT. 3. NOTES ON THE RECOVERY OF SILVER 67-04 M03-67758
EXTRACTION OF PLUTONIUM FROM URANIUM-PLUTONIUM ALLOY WITH URANIUM TRICHLORIDE 67-04 M14-68119
SEMI-INDUSTRIAL TESTING OF A METHOD OF METALLURGICALLY TREATING RED MUDS IN ROTARY FURNACES 67-05 M03-69535
TUNGSTEN CRUCIBLES IN PYROCHEMICAL PROCESSING OF NUCLEAR FUELS 67-06 M01-70714
MANGANESE RECOVERY AS CHLORIDE FROM ORES AND SLAGS 67-06 M03-70859
HYDRATION OF TITANIUM ALLOY SCRAP 67-06 M03-71310
EFFECTIVENESS OF COMPLEX TREATMENT OF RED MUD IN ROTARY FURNACES 67-06 M03-71351
IMPROVING THE PROCESS OF PRODUCING SODIUM SELENIDE FROM SELENIUM CONTAINING SODA 67-06 M03-71360
MILLING A GOLD-BEARING PYRRHOTITE ORE AT DELNITE MINES 67-07 M02-73822
MANGANESE RECOVERY AS CHLORIDE FROM ORES AND SLAGS 67-07 M03-73094
EXTRACTION OF GERMANIUM AND GALLIUM FROM COAL FLY ASH AND PHOSPHORUS FURNACE FLUE DUST 67-07 M03-73617
THE SEPARATION AND PREPARATION OF PU238 FROM NEUTRON IRRADIATED NP237 TARGET 67-07 M03-74014
RECOVERY OF BERYLLIUM FROM ACID LEACHES OF BERYL BY SOLVENT EXTRACTION 67-07 M03-74297
THE INFLUENCE OF H4SIO4 AND OTHER ADMIXTURES UPON THE CHLORIDIZING VOLATILIZATION OF ZN FROM ZNO WITH CACL2 67-08 M03-74654
A ONE-STEP OPERATION FOR RECOVERY OF MANGANESE AS CHLORIDE FROM ORES AND SLAGS 67-08 M03-74673
RECOVERY OF CASSITERITE IN A RUOSS JIG 67-08 M03-74781
A PROPOSED USE FOR ION EXCHANGE IN GOLD CYANIDATION 67-08 M03-75328
EXTRACTIVE PROCESSES 67-08 M03-75617
REFINING PROCESSES 67-08 M03-75618
UTILIZATION OF PARTIALLY REDUCED ORE FOR CUPOLA CHARGE 67-08 M04-74675
THE PRODUCTION OF LOW CARBON FERROMANGANESE FROM LIQUID MANGANESE SILICIDE IN A FUEL FIRED ROTARY FURNACE 67-08 M04-76191
MANUFACTURE OF POWDER COMPOSITE FILTERS FROM POWDERED WASTE PRODUCTS FORMED DURING SPARK MACHINING OF METALS AND ALLOYS 67-08 M09-75470
PRODUCTION OF METALLIC MANGANESE BY ELECTROLYSIS OF A HIGH-PHOSPHORUS MANGANESE ALLOY IN MOLTEN MEDIA 67-08 M13-74482
EXAMINATION OF THE REACTION BETWEEN MANGANESE CARBONATE AND AMMONIUM CHLORIDE WITH THE OBJECT OF RECOVERING MANGANESE FROM CARBONATE

RECOVERING
MANGANESE ORES. PT. 1 67-09 M02-76878
PRODUCTION OF METALS, IN PARTICULAR, VANADIUM, BY REPROCESSING RED SLUDGE FORMED DURING THE MANUFACTURE OF ALUMINUM 67-09 M03-76810
PRODUCTION OF METAL POWDER FROM ABRASIVE METAL SLURRY 67-09 M09-76572
FAST EXTRACTION IN FUEL PROCESSING 67-09 M16-77201
TITANIUM DIOXIDE 67-10 M02-79982
RECOVERY OF VALUABLE METALS FROM SLAGS, LEACHED RESIDUES AND SCRAPS BY A WET OXIDATION METHOD 67-10 M03-78742
DIRECT REDUCTION OF CADMIUM SULPHIDE WITH COPPER 67-10 M03-79503
METHOD OF RECOVERING REJECT TRANSISTORIZED DEVICES 67-10 M03-79863
RECOVERY OF MOLYBDENITE AT TOQUEPALA 67-11 M02-81206
AUTOCLAVE RECOVERY OF PEROVSKITE CONCENTRATES 67-11 M02-81227
AUTOMATIC SEPARATION OF COMPOSITE MERCURY-ANTIMONY ORES 67-11 M02-81323
METHOD OF OBTAINING ALUMINA 67-11 M03-81222
METHOD FOR PROCESSING COPPER DROSS 67-11 M03-81224
USE OF WATER-SOLUBLE AMINES IN THE TECHNOLOGY OF PROCESSING TANTALUM-NIOBIUM PRODUCTS 67-11 M03-81231
RECOVERY OF NONFERROUS METALS FROM METALLURGICAL FUMES 67-12 M03-83581
SIMULTANEOUS SEPARATION OF THE ELEMENTS RA, PU, U, AM AND CM FROM IRRADIATED THORIUM 67-12 M16-82238

RECOVERY
SEE ALSO CREEP RECOVERY
RECOVERY PROCESSES IN NICKEL THIN FILMS BETWEEN 20 AND 300 C 67-01 M15-57579
STAGE 1 RECOVERY OF PURE SILVER AND THE CORRESPONDENCE WITH COPPER 67-01 M16-57957
ELIMINATION OF DEFECTS IN HIGH-PURITY ALUMINUM INDUCED BY ROLLING AT VERY LOW TEMPERATURES 67-02 M14-58961
THE INFLUENCE OF RECOVERY ON RECRYSTALLIZATION IN ALUMINUM 67-02 M14-60605
THE ANNEALING BEHAVIOR OF HIGH PURITY IRON 67-02 M14-60607
STUDY ON RECOVERY OF RESISTIVITY OF NIOBIUM IRRADIATED BY ELECTRONS AT 20 K 67-02 M15-61527
STRAIN-AGING IN TANTALUM 67-02 M17-58954
INVESTIGATION OF THE RECOVERY OF METALS AFTER QUENCHING 67-02 M17-58995
INVESTIGATION OF AMPLITUDE DEPENDENCY AND THERMAL RECOVERY OF WORK HARDENING CAUSED BY ULTRASONIC TREATMENTS 67-02 M17-59912
ELASTIC STRAINS IN COPPER DEFORMED BY ROLLING 67-03 M13-65123
ON THE RECOVERY OF PLASTICALLY DEFORMED IRON SINGLE CRYSTALS ABOVE ROOM TEMPERATURE 67-03 M14-65233
REACTION KINETICS OF STAGE 3 RECOVERY IN ALUMINIUM AFTER NEUTRON IRRADIATION 67-03 M14-65380
THE RECOVERY AND ORDERING PROCESSES OF COLD WORKED NI-FE ALLOYS 67-03 M14-65386
COLD-WORKING, RECOVERY, RECRYSTALLIZATION 67-03 M14-65545
THE INFLUENCE OF SECONDARY ELEMENTS ON THE RECRYSTALLIZATION AND GRAIN GROWTH OF AL-MN ALLOYS 67-03 M14-65561
LOW TEMPERATURE RECOVERY OF DEFORMED ZIRCONIUM 67-03 M14-65694
ELECTROLYTIC RECOVERY OF TIN FROM TIN-PLATE SCRAP 67-04 M03-66306
RECOVERY AND RECRYSTALLIZATION OF DEFORMED HIGH PURITY ALUMINUM 67-04 M14-67541
RADIATION DAMAGE IN BODY-CENTERED METALS 67-04 M16-67314
RECOVERY OF WORK-HARDENING OF SAP ALLOYS 67-04 M17-67457
THE EFFECT OF IRRADIATION TEMPERATURE ON THE RESISTIVITY RECOVERY OF COPPER 67-05 M14-69372
THE STUDY OF DEFECTS IN QUENCHED NICKEL 67-05 M14-69781
INFLUENCE OF MG ON THE RECOVERY OF AL IRRADIATED WITH FAST NEUTRONS AT 78 K 67-05 M15-69336
ATOMISTIC VIEWPOINT IN MATERIALS APPLICATIONS 67-05 M17-69000
RECOVERY PHENOMENA IN COLD WORKED ALUMINIUM-- ALUMINA ALLOYS 67-06 M14-70889
ELECTRON MICROSCOPE OBSERVATION OF RECOVERY AND RECRYSTALLIZATION OF ALUMINUM 67-06 M14-71445
ENHANCED STAGE 1 RECOVERY OF DEFORMED ALUMINUM 67-06 M14-71516
LOW TEMPERATURE RECOVERY OF POLYCRYSTALLINE ALUMINUM 67-06 M17-70406
RECOVERY OF INTERNAL FRICTION IN MO SINGLE CRYSTALS 67-06 M17-72355
DISLOCATION DYNAMICS IN DEFORMATION AND RECOVERY 67-07 M13-73057
THE RECOVERY KINETICS OF DEFORMED COPPER-PALLADIUM AND GOLD-PALLADIUM ALLOYS 67-07 M14-73909
EFFECT OF PREANNEALING ON THE BEGINNING OF SECONDARY RECRYSTALLIZATION IN TRANSFORMER STEEL 67-08 M14-74337
STUDY OF THE RECOVERY PHENOMENON IN AL-AG ALLOY 67-08 M14-74632
WORK HARDENING, RECOVERY, RECRYSTALLIZATION AND GRAIN GROWTH 67-08 M14-74805
ELECTRICAL RESISTIVITY STUDY OF LATTICE DEFECTS INTRODUCED IN ZONE REFINED-IRON BY DEFORMATION AT MINUS 196 C 67-08 M14-75051
RECRYSTALLIZATION OF TUNGSTEN IN W-NI-FE ALLOYS. PT. 1 67-08 M14-75433
STRUCTURAL CHANGES IN CHROMIUM DURING STRAIN 67-08 M14-75881
RECOVERY OF BENT COPPER WHISKERS 67-08 M14-76219
RECOVERY OF ELECTRICAL RESISTIVITY IN NI DEFORMED AT LOW TEMPERATURES 67-08 M15-76215
RECOVERY OF THE ELASTIC MODULUS AND THE INTERNAL FRICTION OF COMMERCIAL COPPER AFTER PLASTIC DEFORMATION 67-09 M17-76675
RECOVERY OF PLASTICALLY DEFORMED FILAMENTARY CRYSTALS OF COPPER 67-10 M14-79472
RECOVERY OF DEFORMED NIOBIUM AND TANTALUM DEGASSED IN ULTRA-HIGH VACUUM 67-11 M14-80632
LOW TEMPERATURE RECOVERY IN COLD WORKED FCC METALS 67-11 M15-80776
RECOVERY AND RECRYSTALLIZATION OF SINTERED TUNGSTEN WITH MINOR ADDITIONS OF NICKEL 67-12 M09-83559
RECOVERY AND RECRYSTALLIZATION BY JOINT MIGRATION OR NUCLEATION IN ELECTROLYTIC IRON, AS STUDIED BY INTERRUPTED COMPRESSION TESTS 67-12 M14-82508
RECOVERY PROCESSES AND ORDERING IN NI3AL 67-12 M14-83262
STUDY OF WORK HARDENING AND RECOVERY IN MOLYBDENUM AND TUNGSTEN 67-12 M14-83520
THE RECOVERY SPECTRUM OF COBALT 67-12 M15-82011
THE EFFECT OF THE SURFACE LAYER STRESS ON TRANSIENT CREEP OF POLYCRYSTALLINE ALUMINUM 67-12 M17-83049

RECOVERY, HEATING EFFECTS
STUDY OF THE RECOVERY OF AL TWISTED AT LOW TEMPERATURES 67-05 M17-68873
LOW-TEMPERATURE RECOVERY PRIOR TO RECRYSTALLIZATION OF AL-KILLED DEEP DRAWING STEEL 67-08 M14-74512

RECOVERY, IMPURITY EFFECTS
THE EFFECT OF THE DEGREE OF PURITY ON SOME PROPERTIES OF HIGH-MELTING MATERIALS 67-05 M14-68580
THE EFFECT OF IMPURITIES ON THE RECOVERY OF COLD-WORKED NICKEL 67-09 M14-77518

RECOVERY, RADIATION EFFECTS
POINT-DEFECT STUDIES IN PLATINUM BY ELECTRON IRRADIATION AT LOW TEMPERATURES. PT. 2. RESISTIVITY RECOVERY FROM 10 TO 300 K 67-06 M14-69915
RECOVERY OF DEFECTS IN NEUTRON-IRRADIATED TUNGSTEN 67-07 M14-73382
SUPPORTING EVIDENCE FOR LONG-RANGE DEFECT MIGRATION IN THE STAGE-1 RECOVERY OF COPPER 67-10 M16-79413
STUDY OF ELONGATION VARIATIONS OF ALPHA PLUTONIUM BY SELF-IRRADIATION AT 4 K 67-11 M14-80606
MEASUREMENTS OF THE ENERGY LIBERATED DURING THE HEATING OF BE SPECIMENS IRRADIATED BY NEUTRONS AT 77 K 67-12 M16-82509

RECOVERY, STRESS EFFECTS
RECOVERY AND RECRYSTALLIZATION OF ALUMINIUM DURING EXTRUSION 67-08 M14-75136

RECRYSTALLIZATION
SEE CRYSTALLIZATION

SEE ALSO GRAIN REFINEMENT
SECONDARY RECRYSTALLIZATION
STRAIN ANNEALING

CHANGE OF METALS BY RECRYSTALLIZATION
67-01 M13-58360

RECRYSTALLIZATION OF NICKEL POWDERS
67-01 M14-57359

RECRYSTALLIZATION TEXTURES IN COLD-ROLLED ELECTROLYTIC IRON CONTAINING ALUMINUM AND NITROGEN
67-01 M14-57414

EFFECT OF PARTICLES IN CU-3.23 WT PER CENT CO ALLOY ON THE ANNEALING BEHAVIOR AFTER HEAVY ROLLING
67-01 M14-57415

STUDY OF SINTERING AND RECRYSTALLIZATION OF MAGNESIAL SPINEL AND ITS MIXTURE WITH ALUMINA
67-02 M05-62293

FORGING METALLURGY--STEEL. PT. 1
67-02 M07-59034

PRESENT KNOWLEDGE ABOUT POINT DEFECTS IN DEFORMED FACE-CENTERED-CUBIC METALS 67-02 M13-60601

CONTINUOUS OBSERVATION OF RECRYSTALLIZATION AND SUCCESSIVE COARSENING IN ALUMINUM WITH A 500 KV ELECTRON MICROSCOPE 67-02 M14-59071

PROPERTIES OF VACUUM-REMELTED HIGH SPEED STEELS
67-02 M14-59108

DIFFRACTOMETRIC STUDY OF THE RECRYSTALLIZATION OF TIN UNDER THE EFFECT OF LIQUID GALLIUM
67-02 M14-59659

RECRYSTALLIZATION OF 20KHGS STEEL DEFORMED AT HIGH TEMPERATURES 67-02 M14-59671

RECRYSTALLIZATION OF ALUMINUM WITH FINELY LINED LAYER PHASES OF ALUMINUM OXIDE
67-02 M14-59747

THE EFFECT OF HEAT TREATMENT ON SOME PROPERTIES OF COLD-ROLLED STRIP 67-02 M14-59808

CHARACTERISTICS OF STRUCTURAL RECRYSTALLIZATION OF STEEL DURING HEATING 67-02 M14-59935

RECRYSTALLIZATION OF COLD ROLLED SINTERED ALUMINUM PRODUCTS --S. A. P.--
67-02 M14-60262

CHANGES IN INTERNAL ENERGY ASSOCIATED WITH RECOVERY AND RECRYSTALLIZATION 67-02 M14-60602

THE INFLUENCE OF RECOVERY ON RECRYSTALLIZATION IN ALUMINUM 67-02 M14-60605

RECRYSTALLIZATION AND GRAIN GROWTH OF ALUMINUM
67-02 M14-60606

THE ANNEALING BEHAVIOR OF HIGH PURITY IRON
67-02 M14-60607

ANNEALING OF SILICON-IRON SINGLE CRYSTALS
67-02 M14-60608

CONTRIBUTION TO THE STUDY OF SOLIDIFICATION OF NUCLEI 67-02 M14-60751

ELECTRON MICROSCOPICAL INVESTIGATIONS ON THE AGE HARDENING OF SPRING ALLOYS BASED ON CONICRFE
67-02 M14-60879

EFFECT OF AL2O3 CONTENT AND DEFORMATION CONDITIONS ON RECRYSTALLIZATION OF SAP 67-02 M14-61560

RECRYSTALLIZATION OF EI437B ALLOY
67-02 M14-61753

THE EFFECT OF COHERENT PARTICLES ON THE ANNEALING BEHAVIOR OF A COLD-WORKED CU-2 PER CENT CO ALLOY
67-02 M14-61819

RECRYSTALLIZATION DIAGRAM FOR LOW DUCTILITY CR-NI HEAT-RESISTANT STEEL 67-02 M14-61983

RECRYSTALLIZATION OF MANGANESE AND NICKEL STEELS DURING AUSFORMING 67-02 M14-61989

INFLUENCE OF FERRITE FORM ON REFINEMENT OF STEEL IN FRACTURE 67-02 M14-62272

RECRYSTALLIZATION DURING CREEP OF NICKEL
67-02 M17-58953

CHANGES IN PROPERTIES OF POLYCRYSTALLINE COPPER DURING MULTIPLE RECRYSTALLIZATION
67-02 M17-61728

CONTRIBUTION TO THE INVESTIGATION OF THE PRESSURE-TEMPERATURE DIAGRAM OF PURE BERYLLIUM
67-03 M13-65261

TRANSMISSION ELECTRON MICROSCOPE STUDY OF ROLLED STRUCTURES IN COPPERS OF VARYING PURITY
67-03 M13-65549

A STUDY OF GRAIN GROWTH IN FECO-V
67-03 M14-65091

CONTRIBUTION TO THE STUDY OF THE RECRYSTALLIZATION OF BERYLLIUM AND BERYLLIUM-CALCIUM
67-03 M14-65278

COLD-WORKING, RECOVERY, RECRYSTALLIZATION
67-03 M14-65545

GRAIN BOUNDARY MIGRATION AND THE FORMATION OF RECRYSTALLIZATION TEXTURES IN METAL SINGLE- AND POLYCRYSTALS 67-03 M14-65546

THE ROLE OF DISLOCATIONS IN RECRYSTALLIZATION
67-03 M14-65555

RECRYSTALLIZATION DUE TO PLASTIC DEFORMATION IN HOT WORKING 67-03 M14-65556

INFLUENCE OF THE ORIENTATION ON THE RECRYSTALLIZATION OF IRON SINGLE CRYSTALS DEFORMED BY UNIDIRECTIONAL ROLLING
67-03 M14-65558

STUDY OF PURE ALUMINUM SINGLE AND BICRYSTALS RECRYSTALLIZATION 67-03 M14-65559

THE INFLUENCE OF SECONDARY ELEMENTS ON THE RECRYSTALLIZATION AND GRAIN GROWTH OF AL-MN ALLOYS 67-03 M14-65561

THE DEFORMATION CHARACTERISTICS OF NB, TA, MO AND W
67-03 M17-65760

METALLURGICAL APPLICATIONS OF A 500 KV ELECTRON MICROSCOPE 67-04 M13-67551

SOME FEATURES OF THE DISLOCATION STRUCTURE OF DILUTE SOLID SOLUTIONS BASED ON SILVER
67-04 M13-67655

THE EFFECT OF INERT GASES ON THE RECRYSTALLIZATION OF TUNGSTEN 67-04 M14-66005

PARAMETERS OF THE GROWTH KINETICS OF RECRYSTALLIZATION NUCLEI IN ZONE-REFINED IRON AND NICKEL 67-04 M14-66039

INFLUENCE OF ZIRCALLOY 2 TRANSFORMATION CONDITIONS ON THE STRUCTURE AND MECHANICAL PROPERTIES OF FINISHED AND SEMIFINISHED PRODUCTS
67-04 M14-66043

RECRYSTALLIZATION AND GRAIN STRUCTURE IN RIMMED AND ALUMINUM-KILLED LOW-CARBON STEEL
67-04 M14-66930

THE EFFECT OF PRECIPITATION OF MNAL6 UPON THE RECRYSTALLIZATION CHARACTERISTICS OF ALUMINUM-MANGANESE ALLOYS 67-04 M14-66947

SOLIDIFICATION AND MICROSEGREGATION IN KILLED STEEL INGOTS WITH PARTICULAR REFERENCE TO 1 PER CENT C, 1 1/2 PER CENT CR STEEL 67-04 M14-67025

X-RAY STUDY OF THE RECRYSTALLIZATION OF ELECTROLYTIC IRON 67-04 M14-67377

STRUCTURE AND MECHANICAL PROPERTIES OF COPPER VACUUM CONDENSATES 67-04 M14-67382

RECOVERY AND RECRYSTALLIZATION OF DEFORMED HIGH PURITY ALUMINUM 67-04 M14-67541

EFFECT OF A MAGNETIC FIELD ON THE RECRYSTALLIZATION TEXTURE OF IRON 67-04 M14-67651

STUDY OF THE RECRYSTALLIZATION OF STEEL ON HEATING IN VACUUM 67-04 M14-68077

COMBINED INFLUENCE OF PLASTIC DEFORMATION AND AGING ON STRUCTURE AND PROPERTIES OF TS6 TITANIUM ALLOY 67-04 M17-66487

EFFECT OF LANTHANUM AND YTTRIUM ON THE RECRYSTALLIZATION OF MOLYBDENUM
67-05 M14-68209

INCREASE IN GRAIN SIZE DURING RECRYSTALLIZATION OF HEAT RESISTANT NICKEL ALLOYS 67-05 M14-68358

DIFFERENCE IN THE GRAIN SIZES OF NI-CR ALLOYS RESULTING FROM UNIFORM DEFORMATION
67-05 M14-68359

FORMATION OF RECRYSTALLIZATION NUCLEI IN TRANSFORMER STEEL 67-05 M14-68853

EFFECT OF COLD DEFORMATION ON THE TEMPERATURE OF THE BEGINNING OF RECRYSTALLIZATION OF AGING ALLOYS 67-05 M14-68976

A PRACTICAL VIEW OF DEFORMATION AND RECRYSTALLIZATION OF METALS 67-05 M14-69550

KINETICS OF PRIMARY, COLLECTIVE AND SECONDARY RECRYSTALLIZATION IN MOLYBDENUM FOIL
67-05 M14-69650

NUCLEATION DURING RECRYSTALLIZATION
67-05 M14-69726

RECOVERY AND RECRYSTALLIZATION OF INTERNALLY OXIDIZED AND COLD ROLLED CU-AL ALLOY
67-05 M14-69863

EFFECT OF SECONDARY RECRYSTALLIZATION ON THE STRUCTURE AND MECHANICAL PROPERTIES OF SINGLE-PHASE TITANIUM ALLOYS IN THE CAST STATE
67-05 M17-68246

RECRYSTALLIZATION DURING AUSFORMING
67-06 M08-70359

PLASTIC DEFORMATION AND RECRYSTALLIZATION OF REFRACTORY COMPOUNDS 67-06 M09-71461

EFFECT OF THE CONDITIONS OF DEFORMATION ON THE PROCESS OF RECRYSTALLIZATION OF ALUMINUM
67-06 M10-70361

GRAIN BOUNDARY MIGRATION DURING RECRYSTALLIZATION. PT. 1. ZONE-REFINED LEAD, ZINC, TIN AND BISMUTH. PT. 2. ZONE-REFINED ALUMINUM 67-06 M14-69933

EFFECT OF PRECIPITATION HARDENING PHASE ON PRIMARY RECRYSTALLIZATION OF EI437B ALLOY
67-06 M14-70287
RECRYSTALLIZATION OF SUPPORTED PLATINUM
67-06 M14-70662
RECRYSTALLIZATION CHARACTERISTICS OF AL-0.3 PER CENT ZR ALLOYS 67-06 M14-71212
EFFECT OF HEATING RATE ON RECRYSTALLIZATION AND ANISOTROPY IN ALUMINIUM-KILLED AND RIMMED SHEET STEELS 67-06 M14-71337
SUBSTRUCTURE MEASUREMENTS BY STATISTICAL FLUCTURATIONS IN X-RAY DIFFRACTION INTENSITY
67-06 M14-71424
METALLURGICAL INVESTIGATIONS WITH A 500 KV ELECTRON MICROSCOPE 67-06 M14-71545
INFLUENCE OF ANNEALING CONDITIONS AND PRECIPITATION ON THE RECRYSTALLIZATION TEXTURE OF ALUMINUM
67-06 M14-71856
A TRANSIENT EFFECT IN GRAIN-BOUNDARY MIGRATION DURING RECRYSTALLIZATION IN ALUMINUM
67-06 M14-71955
RECRYSTALLIZATION IN ALLOYS AFTER HETEROGENEOUS AGING 67-06 M14-72349
RECRYSTALLIZATION OF GERMANIUM THIN FILMS ON INSULATING SUBSTRATES BY ELECTRON BEAM ZONE MELTING 67-06 M16-72178
FEATURES OF THE STRUCTURAL RECRYSTALLIZATION OF STEEL ON HEATING 67-07 M14-72590
ON SPONTANEOUS RECRYSTALLIZATION OF SN-GA SOLID SOLUTION 67-07 M14-73163
THE SOLUBILITY OF SULFUR IN SILICON IRON
67-07 M15-73514
INVESTIGATION ON THE EFFECT OF A SHORT-TIME RECRYSTALLIZING ANNEALING TREATMENT ON THE MECHANICAL TECHNOLOGICAL PROPERTIES OF UNALLOYED THIN STEEL STRIP, POOR IN CARBON, UNDER PARTICULAR CONSIDERATION OF QUENCH AGING
67-08 M10-75393
FORMATION OF COLD ROLLED TEXTURE AND RECRYSTALLIZED TEXTURE IN SINGLE CRYSTALS OF 3 PER CENT SILICON IRON. PT. 1. 67-08 M13-75154
INFLUENCE OF ROLLING TEMPERATURE ON TEXTURES IN RIMMING STEEL 67-08 M13-75814
THE CUBE TEXTURE IN AL AND ITS ROLE IN THE CONTROL OF EARING 67-08 M14-74516
WORK HARDENING, RECOVERY, RECRYSTALLIZATION AND GRAIN GROWTH 67-08 M14-74805
RECRYSTALLIZATION OF IRON-ALUMINUM ALLOYS
67-08 M14-74992
THE THEORY OF THE EFFECT OF IMPURITIES ON THE GROWTH RATE OF GRAINS IN THE RECRYSTALLIZATION OF METALS 67-08 M14-75262
RECRYSTALLIZATION AND TEXTURE FORMATION IN VERY THIN ELECTRICAL STEEL STRIP 67-08 M14-75266
DRIVING FORCES OF SECONDARY RECRYSTALLIZATION
67-08 M14-75267
THE FORMATION OF SECONDARY RECRYSTALLIZATION NUCLEI IN TRANSFORMER STEEL 67-08 M14-75268
RECRYSTALLIZATION OF TUNGSTEN IN W-NI-FE ALLOYS. PT. 1 67-08 M14-75433
ORIENTED NUCLEATION IN THE FORMATION OF ANNEALING TEXTURES IN IRON 67-08 M14-75582
ALUMINA CRYSTAL GROWTH BY SOLID-STATE TECHNIQUES
67-08 M14-76094
RECRYSTALLIZATION OF BINARY ALUMINUM ALLOYS WITH MANGANESE AND ZIRCONIUM 67-08 M14-76125
THE RECRYSTALLIZATION OF PURE PB
67-08 M14-76261
STUDY OF ZONAL RECRYSTALLIZATION OF TELLURIUM
67-09 M03-76875
RECRYSTALLIZATION BEHAVIOR AND BRAZING OF THE TZM MOLYBDENUM ALLOY 67-09 M11-78146
RECRYSTALLIZATION OF A HEAT RESISTANT NICRWTI STEEL AT TECHNICAL HOT WORKING AND AUSTENITIZING TEMPERATURES 67-09 M14-76695
ORIENTATION RELATIONSHIPS BETWEEN THE ROLLING AND RECRYSTALLIZATION TEXTURE OF ALUMINUM
67-09 M14-76796
SPECIAL FEATURES OF RECRYSTALLIZATION OF THE KH18N12T TUBE STEEL 67-09 M14-76956
STABILIZATION OF SIZE OF MATRIX GRAIN IN TRANSFORMER STEEL THIN STRIP 67-09 M14-77779
RECRYSTALLIZATION KINETICS IN TD-NICKEL
67-09 M14-78287
WORK HARDENING AND RECRYSTALLIZATION OF NICKEL ALLOYS 67-09 M17-77424
THE RECRYSTALLIZATION KINETICS OF DRAWN COPPER AND ALPHA-BRASS BARS DURING THE ISOTHERMAL DETERMINATION OF ELASTIC MODULI AT HIGH TEMPERATURES 67-09 M17-78180
THERMOMECHANICAL STRENGTHENING OF STEEL
67-10 M10-79211
FURTHER CONTRIBUTIONS TO THE KNOWLEDGE OF THE RECRYSTALLIZATION OF COLD ROLLED IRON. THE TEXTURE OF IRON AS ROLLED AND ITS CHANGES DURING RELAXATION AND RECRYSTALLIZATION
67-10 M13-79068
SIMILARITIES BETWEENTHE MARTENSITIC AND COLD WORKED STRUCTURES OF STEELS 67-10 M13-79947
RECRYSTALLIZATION DIAGRAM OF LOW-PLASTICITY CHROMIUM-NICKEL-HEAT-RESISTANT STEEL
67-10 M14-78840
RECRYSTALLIZATION OF MANGANESE AND NICKEL STEELS DURING HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT 67-10 M14-78846
INVESTIGATION OF 99.0 PER CENT PURE ALUMINUM IN THE AS-CAST CONDITION AND FOLLOWING VARIOUS SLAB ANNEALS 67-10 M14-79385
PARAMETERS OF GROWTH KINETICS OF RECRYSTALLIZATION NUCLEI IN IRON AND NICKEL REFINED BY ZONE MELTING
67-10 M14-79669
RECRYSTALLIZATION PARAMETERS OF REFRACTORY METALS ACCORDING TO INTERNAL FRICTION DATA
67-10 M14-79906
STUDY OF RECRYSTALLIZATION OF TUNGSTEN
67-10 M14-80066
SOME PROPERTIES OF VACUUM MELTED NICKEL
67-10 M17-79045
STUDY OF THE TEXTURES DEVELOPED IN ELECTROLYTIC URANIUM BY ROLLING AT ROOM TEMPERATURE AND THEIR EVOLUTION DURING ALPHA-PHASE ANNEALS
67-11 M13-80248
MICROSTRUCTURAL CHANGES DURING AND AFTER HOT WORKING OF TECHNICAL AL ALLOYS AND THE INFLUENCE OF THERMAL TREATMENT PRIOR TO HOT WORKING
67-11 M13-80371
CRYSTALLOGRAPHIC RELATIONSHIPS BETWEEN THE ROLLING AND THE RECRYSTALLIZATION TEXTURES OF ALUMINIUM
67-11 M13-80378
FORMATION OF COLD ROLLED TEXTURE AND RECRYSTALLIZED TEXTURE IN SINGLE CRYSTALS OF 3 PER CENT SILICON IRON. PT. 2. RECRYSTALLIZED TEXTURE
67-11 M13-80797
ELECTRON MICROSCOPIC STUDY OF POLYGONIZATION AND PRIMARY RECRYSTALLIZATION IN COLD ROLLED TRANSFORMER STEEL 67-11 M14-80727
RECRYSTALLIZATION AND MECHANICAL PROPERTIES OF COPPER, TENSILE STRAINED AT LOW TEMPERATURES
67-11 M14-80734
EFFECT OF HEAT-TREATMENTS IN VACUUM-DEPOSITED CDS/AG AND CDS/LI FILMS 67-11 M14-80820
STUDY OF THE INVERSE ROWLAND MECHANISM FOR THE NUCLEATION OF A CUBE RECRYSTALLIZATION TEXTURE
67-11 M14-80945
THE BEHAVIOR OF RECRYSTALLIZATION OF PURE IRON AFTER HIGH-SPEED DEFORMATION 67-11 M14-80946
A TRANSMISSION ELECTRON MICROSCOPIC STUDY OF THE EARLY STAGE OF RECRYSTALLIZATION IN PURE IRON
67-11 M14-81061
ELECTRON MICROSCOPIC OBSERVATION ON THE RECRYSTALLIZATION OF THE HEAVILY ROLLED SHEET OF 7-3 BRASS 67-11 M14-81063
PLASTIC DEFORMATION AND RECRYSTALLIZATION OF REFRACTORY COMPOUNDS 67-12 M09-82782
RECOVERY AND RECRYSTALLIZATION OF SINTERED TUNGSTEN WITH MINOR ADDITIONS OF NICKEL
67-12 M09-83559
OBSERVATION OF POLYGONIZATION AND TWO MECHANISMS OF RECRYSTALLIZATION DURING ANNEALING OF IRON OF ELECTROLYTIC PURITY PREVIOUSLY WORK HARDENED BY COMPRESSION 67-12 M14-82284
ON ORIENTED CRYSTALLISATION IN BRAZED SEAMS
67-12 M14-82417
RECOVERY AND RECRYSTALLIZATION BY JOINT MIGRATION OR NUCLEATION IN ELECTROLYTIC IRON, AS STUDIED BY INTERRUPTED COMPRESSION TESTS
67-12 M14-82508
SELECTIVE GROWTH IN THE RECRYSTALLIZATION OF A ZONE-REFINED ALUMINUM SINGLE CRYSTAL
67-12 M14-82737
INVESTIGATION OF RECRYSTALLIZATION OF FERRITIC-MARTENSITIC STEEL X7CR14 --REMANIT 1510--
67-12 M14-83290
STUDY OF WORK HARDENING AND RECOVERY IN MOLYBDENUM AND TUNGSTEN 67-12 M14-83520
NOTE ON THE KINETICS OF RECRYSTALLIZATION AS EXPRESSED BY THE AVRAMI FORMULA
67-12 M14-83587

RECRYSTALLIZATION, GRAIN GROWTH AND THE DUCTILE-BRITTLE TRANSITION IN TUNGSTEN SHEET 67-12 M17-81822

RECRYSTALLIZATION /METALLURGICAL/, ALLOYING EFFECTS

RECRYSTALLIZATION OF AL-MN AND AL-ZR ALLOYS 67-02 M14-59767

EFFECT OF ALLOYING ELEMENTS ON RECRYSTALLIZATION OF MG ALLOYS 67-02 M14-62233

INFLUENCE OF SMALL AMOUNTS OF SILVER ON THE RECRYSTALLIZATION OF MOLTEN ZONE ALUMINUM 67-03 M14-65560

RECRYSTALLIZERS IN NONFERROUS METALLIC MELTS 67-05 M14-68516

ON THE STUDY OF AL-TH ALLOYS. PT. 1. THE EFFECT OF TH ON THE PROPERTIES OF AL ALLOYS 67-05 M17-68883

GROWTH AND PREFERRED ORIENTATIONS OF LARGE ELONGATED GRAINS IN DOPED TUNGSTEN SHEET 67-06 M13-69949

THE RECRYSTALLIZATION BEHAVIOUR OF ZINC ALLOYS CONTAINING MAGNESIUM, CADMIUM, COPPER, SILVER, LEAD AND IRON 67-06 M14-69903

THE EFFECT OF SMALL NB ADDITIONS ON THE RECRYSTALLIZATION OF AUSTENITE AFTER HOT WORKING 67-07 M14-72529

INFLUENCE OF ALLOYING ELEMENTS ON MECHANICAL PROPERTIES AND RECRYSTALLIZATION POINT OF TA-33 PER CENT CB ALLOY 67-10 M17-79142

INFLUENCE OF ALLOYING ON THE RECRYSTALLISATION TEMPERATURE OF IRON DURING RAPID HEATING 67-12 M14-82155

RECRYSTALLIZATION /METALLURGICAL/, COOLING EFFECTS

THE EFFECT OF SECONDARY COOLING ON THE GROWTH OF THE WALL THICKNESS IN CONTINUOUS CASTING 67-02 M14-59132

TEMPERATURE CYCLES OF INGOT MOLDS DURING USE. PT. 1. DETERMINATION OF TEMPERATURE CYCLES OF INGOT MOLDS MOUNTED ON BOGIES 67-07 M04-73329

RECRYSTALLIZATION /METALLURGICAL/, HEATING EFFECTS

THE HEATING AND METALLOGRAPHY OF ULTRA-FINE RECRYSTALLIZED TUNGSTEN WIRE 67-02 M14-59007

THE MICROSTRUCTURE OF HOT FORGED ALUMINUM 67-02 M14-59126

RECOVERY AND THE BEGINNING OF PRIMARY RECRYSTALLIZATION DURING THE RAPID HEATING OF BRASS L62 67-02 M14-61673

RECRYSTALLIZATION PROCESSES 67-02 M14-61882

THE ELECTRON BEAM MELTING OF TUNGSTEN. PT. 8. THE ELECTRON BEAM MELTING OF REFRACTORY METALS 67-05 M14-69857

ON THE NATURE OF THE PROCESSES OCCURRING DURING THE TEMPERING OF QUENCHED LOW-CARBON STEEL 67-07 M10-72670

EFFECT OF PREANNEALING ON THE BEGINNING OF SECONDARY RECRYSTALLIZATION IN TRANSFORMER STEEL 67-08 M14-74337

LOW-TEMPERATURE RECOVERY PRIOR TO RECRYSTALLIZATION OF AL-KILLED DEEP DRAWING STEEL 67-08 M14-74512

ANOMALIES OF THE TEMPERATURE DEPENDENCE OF YOUNGS MODULUS OF NIOBIUM-ZIRCONIUM ALLOYS AND OF PURE NIOBIUM 67-09 M17-76791

RECRYSTALLIZATION /METALLURGICAL/, IMPURITY EFFECTS

EFFECT OF OXYGEN ON THE RECRYSTALLIZATION OF TANTALUM 67-02 M14-62082

THE EFFECT OF THE DEGREE OF PURITY ON SOME PROPERTIES OF HIGH-MELTING MATERIALS 67-05 M14-68580

CONSIDERATIONS CONCERNING THE RECRYSTALLIZATION AND POLYGONIZATION OF HIGH-PURITY AND IMPURE METALS 67-05 M14-69845

RECRYSTALLIZATION BEHAVIOR OF SOME HIGH-PURITY IRONS 67-06 M14-70814

PRIMARY RECRYSTALLIZATION IN SILICON IRON WITH DIFFERENT AMOUNTS OF IMPURITIES 67-08 M14-74989

THE EFFECT OF IMPURITIES ON THE RECOVERY OF COLD-WORKED NICKEL 67-09 M14-77518

RECRYSTALLIZATION /METALLURGICAL/, RECOVERY

ELECTRON MICROSCOPE OBSERVATION OF RECOVERY AND RECRYSTALLIZATION OF ALUMINUM 67-06 M14-71445

RECRYSTALLIZATION /METALLURGICAL/, STRESS EFFECTS

STRUCTURAL CHANGES IN DEFORMED COLUMBIUM AND ITS ALLOYS DURING HEATING 67-04 M14-66445

INFLUENCE OF THE DEGREE OF SWAGING DURING COLD ROLLING ON THE FORMATION OF THE RECRYSTALLIZATION TEXTURE IN THE N29K18 AND N47KH ALLOYS 67-08 M14-74993

RECOVERY AND RECRYSTALLIZATION OF ALUMINIUM DURING EXTRUSION 67-08 M14-75136

ROLLING AND RECRYSTALLIZATION TEXTURES OF SILICON IRON CRYSTALS WITH --110-- --001-- ORIENTATIONS 67-09 M13-78216

COLD ROLLING AND RECRYSTALLIZATION TEXTURES OF 3003 AL-MN ALLOY 67-09 M13-78246

ROLLING AND RECRYSTALLIZATION TEXTURES IN ALUMINUM 67-09 M14-78207

COMMENTS RECRYSTALLIZATION DURING CREEP OF NICKEL 67-09 M17-77599

CHANGES IN THE STRUCTURE OF DEFORMED NIOBIUM AND NIOBIUM ALLOYS DURING HEATING 67-11 M14-80986

RECRYSTALLIZATION /METALLURGICAL/, ULTRASONICS

ON THE INFLUENCE OF ULTRASONIC TREATMENTS ON THE RECRYSTALLIZATION OF ZINC 67-06 M14-71863

RECRYSTALLIZATION /METALLURGICAL/, WELDING EFFECTS

THE PREPARATION OF WELD EDGES BY MEANS OF IMPACT CUTTERS AND WELD EDGE MOLDERS 67-06 M11-71220

RECTIFICATION /DISTILLATION/

SEE DISTILLATION

RECTIFIERS

SEE ALSO SELENIUM RECTIFIERS

AN INVESTIGATION OF THE HETEROGENEOUS P-N JUNCTION BETWEEN SELENIUM AND VARIOUS SELENIDES 67-06 M16-71195

PHYSICAL FUNDAMENTALS OF SE- AND SIBASED RECTIFIERS 67-11 M16-81531

RECTIFIERS, ELECTRICAL PROPERTIES

THE THEORY OF HETEROGENEOUS P-N JUNCTIONS AS APPLIED TO SELENIUM RECTIFIERS 67-06 M16-71194

RECTIFIERS, MATERIALS

ELECTRONIC PROPERTIES AND APPLICATIONS 67-07 M16-73688

RECUPERATIVE CUPOLAS

SEE HOT BLAST CUPOLAS

RECUPERATIVE FURNACES

SEE METALLURGICAL FURNACES
RECUPERATORS

RECUPERATORS

HIGH-SPEED HEATING OF CARBON AND ALLOY STEEL 67-06 M10-70103

USE OF RECUPERATORS IN HOLDING FURNACES 67-06 M10-71392

COKE-OVEN GAS- AND NATURAL GAS-FIRED INDUSTRIAL FURNACES OF MORE RECENT DESIGN FOR THE DIRECT, SCALE-FREE HEATING OF STEEL 67-12 M10-81755

RECUPERATORS, AUTOMATIC CONTROL

AUTOMATION OF THE HEAT CAMPAIGN OF REGENERATIVE SOAKING PITS 67-07 M10-73793

AUTOMATION OF THERMAL CONDITIONS OF REGENERATIVE SOAKING PITS 67-09 M10-76556

RECUPERATORS, SERVICE TIME

EXPERIENCE WITH METAL RECUPERATORS IN METALLURGICAL WORKS IN THE USSR 67-12 M10-81877

RED HARDNESS

SEE HARDNESS

RED LEAD, REFINING

PHENOMENON IN THE DIRECT ELECTROLYTIC REDUCTION OF RED LEAD ON MERCURY SUBSTRATE 67-07 M03-73299

RED MUD

STUDY OF STRUCTURE IN RED MUD PULP OF ALUMINA PRODUCTION 67-04 M03-66969

STUDY OF THE CHEMICAL COMPOSITION AND STRUCTURE OF ALUMINOSODIUM SILICATES AND WAYS OF REDUCING SODIUM LOSSES IN THE BAYER PROCESS 67-06 M03-70915

RED MUD, MELTING

ECONOMIC COMPARISON OF VARIOUS METHODS FOR COMPLEX PROCESSING OF RED SLURRIES 67-11 M03-80754

RED MUD, REACTIONS /CHEMICAL/

ON THE PROBLEM OF LEACHING RED SLIME THROUGH HYDROGARNETS 67-10 M03-80055

RED MUD, REDUCTION /CHEMICAL/

SEMI-INDUSTRIAL TESTING OF A METHOD OF METALLURGICALLY TREATING RED MUDS IN ROTARY FURNACES 67-05 M03-69535

WASHING RED MUD FROM ALUMINATE SOLUTIONS 67-07 M02-73414

RED MUD, REFINING

EFFECT OF THE WASHING PROCESS ON THE SETTLING RATE OF RED MUDS FROM ALUMINA PRODUCTION 67-04 M03-67529

PURIFYING ALUMINATE SOLUTIONS OF PHOSPHORUS, VANADIUM AND FLUORIDE COMPOUNDS

RED MUD
67-05 M03-69534
METHOD OF PROCESSING HIGH-SILICA HYDRAGILLITE BAUXITES 67-06 M02-70940
RED MUD, ROASTING
METHOD OF PROCESSING HIGHLY FERRUGINOUS AND HIGHLY SILICIOUS BAUXITES 67-06 M03-70934
RED MUD, STEEL MAKING
METHOD OF PREPARING RED SLURRY OR A MIXTURE CONTAINING RED SLURRY OF ALUMINA PRODUCTION FOR BLAST FURNACE MELTING 67-12 M04-81790
RED SHIFT
SEE DOPPLER EFFECT
RED SHORTNESS
SEE BRITTLENESS
REDOX POTENTIAL
SEE ELECTRODE POTENTIALS
REDUCING
SEE REDUCTION
REDUCING AGENTS
SEPARATION RATE OF PRIMARY INCLUSION IN AGITATED STEEL BATH 67-01 M04-58562
TREATING IRON WITH A MIXTURE OF MAGNESIUM SALTS AND REDUCING AGENTS IN A TURBULENT STREAM 67-07 M06-74037
THICK NICKEL DEPOSITS OF HIGH PURITY BY ELECTROLESS METHODS 67-07 M12-72772
STUDIES ON THE REDUCTION OF THORIA BY CALCIUM 67-09 M03-77254
EVALUATION OF CHROMIUM RECOVERY IN CR-NI STAINLESS STEELS --300 SERIES-- 67-09 M04-78007
DIRECT REDUCTION OF CADMIUM SULPHIDE WITH COPPER 67-10 M03-79503
REDUCING AGENTS, STEEL MAKING
DEOXIDATION WITH TITANIUM IN LIQUID IRON 67-01 M04-58595
REDUCING ATMOSPHERES
MELTING OF DUCTILE IRON IN INDUCTION FURNACES IN SWEDEN 67-04 M04-66281
DETERMINATION OF NITROGEN IN STEELS AND CAST IRONS BY MEANS OF REDUCTIVE MELTING 67-10 M19-78680
REDUCTION
SEE ALSO KRUPP RENN PROCESS
INFLUENCE OF FLUXES UPON THE MINERAL CONSTITUENTS AND PHYSICAL PROPERTIES OF IRON ORE SINTER 67-04 M02-66297
REDUCTION /CHEMICAL/
SEE ALSO DIRECT REDUCTION
ELECTROTHERMAL REDUCTION
FLUIDIZED BED REDUCTION
HYL SPONGE IRON PROCESS
KRUPP RENN PROCESS
THERMAL REDUCTION
ON THE COMPLEX TREATMENT OF ALKALINE ALUMINATES AND ALUMOSILICATES BY A CARBOTHERMAL METHOD 67-01 M02-57304
EXPERIMENTAL PRODUCTION OF PREREDUCED PELLETS FROM NATURAL AND SYNTHETIC MAGNETITES 67-01 M02-57507
ON THE IMPROVEMENT OF REDUCTION BY ROTARY KILN 67-01 M02-57513
EFFECT OF PRODUCTION CONDITIONS ON PHYSICAL CHARACTERISTICS OF MAGNESIOTHERMIC TITANIUM SPONGE 67-01 M03-57305
ON THE CARBON GASIFICATION REACTION IN URANIUM OXIDE REDUCTION PROCESSES 67-01 M03-57309
PRODUCTION OF PURE BORON IN THE ALPHA AND BETA RHOMBOHEDRAL FORMS 67-01 M03-58377
PROPERTIES OF TITANIUM PREPARED BY SODIUM REDUCTION PROCESS 67-01 M03-58544
THERMODYNAMICS OF THE SODIUM-HEAT REDUCTION OF TITANIUM TETRACHLORIDE IN A SODIUM CHLORIDE MELT 67-01 M15-57306
NONFERROUS METALS AND THE CHEMICAL ENGINEER. PT. 1. TITANIUM 67-02 M01-61140
KINETICS OF REDUCING SILICA BY AN IRON-CARBON MELT 67-02 M02-62227
MATHEMATICAL MODELING OF LEAD OXIDE REDUCTION BY CARBON MONOXIDE 67-02 M03-58856
METHOD FOR PRODUCING POTASSIUM METAL 67-02 M03-58883
SEMIPILOT PLANT RESEARCH ON PRODUCTION OF COPPER POWDER 67-02 M03-58934
METHOD OF PREPARING NICKEL FROM OXIDES 67-02 M03-59592
ON PREPARING SILICIDES BY REDUCTION OF MIXTURES OF TITANIUM AND SILICON TETRACHLORIDES WITH HYDROGEN 67-02 M03-59880
REDUCING TITANIUM TETRACHLORIDE TO LOWER CHLORIDES BY SODIUM 67-02 M03-60542
PRODUCING VANADIUM TETRACHLORIDE FROM VANADIUM OXYTRICHLORIDE 67-02 M03-60544
REDUCTION OF U3O8 WITH SOLID CARBON 67-02 M03-60545
THE REDUCTION OF TITANIUM DIOXIDE AND MIXTURES WITH FERRIOXIDES AND METALLIC IRON IN THE SOLID STATE WITH H2 67-02 M03-60600
KINETICS OF THE REDUCTION OF THALLIUM SULPHIDE WITH CARBON MONOXIDE 67-02 M03-60730
CARBOTHERMAL REPROCESSING OF SODIUM ALUMINATE 67-02 M03-61611
PRODUCING ALKALI METALS AND ALUMINUM OXIDE BY ALUMOTHERMIC REDUCTION OF ALUMINATES 67-02 M03-61717
ALUMINOTHERMAL REDUCTION OF TITANIUM OXIDES 67-02 M03-61721
DISSOCIATION OF COPPER OXIDE FERRITES BY MATTE 67-02 M03-62228
REDUCING CHROMIUM OXIDE FROM AN OXIDE MELT BY ALUMINUM 67-02 M03-62265
ON THE SWELLING OF MARCONA IRON ORE PELLET DURING REDUCTION 67-02 M04-58841
MEASUREMENTS OF OXIDATION-REDUCTION RATE OF IRON AND OF OXYGEN PRESSURE IN OXIDE MELTS 67-02 M04-59152.
REACTION KINETICS IN THE BLAST FURNACE 67-02 M04-60265
REDUCTION OF IRON FROM FERRO-MONTICELLITE 67-02 M04-61201
REDUCTION OF A BURDEN OF IRON OXIDES BY A GAS 67-02 M04-61962
REDUCTION OF A BURDEN OF IRON OXIDES BY A GAS 67-02 M04-61993
REDUCTION AND SLAG FORMATION IN A BLAST FURNACE AT VARIOUS REDUCIBILITIES OF BURDEN 67-02 M04-62258
INVESTIGATION OF THE CONDITIONS OF ALLOY PREPARATION IN THE SYSTEM YB6-LAB6 67-02 M09-60179
GOLD IN GLASS 67-02 M14-58917
STUDY OF THE MECHANISM OF ELECTROLYTIC REDUCTION OF OXIDES OF IRON 3 IN AN ALKALINE MEDIUM. PT. 2 67-02 M14-59902
STUDY OF THE MECHANISM OF ELECTROLYTIC REDUCTION OF OXIDES OF IRON 3 IN AN ALKALINE MEDIUM. PT. 1 67-02 M14-59903
INTERACTION OF MOO3 AND FE2O3 WITH CARBON 67-02 M14-60051
INVESTIGATION OF INITIAL STAGES OF INTERACTION OF OXIDES OF CERTAIN METALS WITH CARBON 67-02 M14-60543
THERMODYNAMICS OF THE REDUCTION OF CALCIUM FROM ITS OXIDE BY SILICOALUMINUM 67-02 M15-61719
COLUMBIUM METAL BY THE ALUMINOTHERMIC REDUCTION OF CB2O5 67-03 M03-65007
KINETICS OF INTERACTION OF GALENITE WITH CERUSSITE 67-03 M03-65578
KINETICS OF NEAR-EQUILIBRIUM REDUCTION OF WUSTITE 67-03 M14-65082
DIFFUSION OF H2-H2O THROUGH POROUS IRON FORMED BY THE REDUCTION OF HEMATITE 67-03 M14-65100
REDUCTION OF CONVERTER DUST PELLETS 67-04 M02-67554
HOW CERTAIN FACTORS AFFECT THE REDUCTION OF GALLIUM IN ALKALINE SOLUTIONS OF ALUMINUM GALLAM ALLOYS. PT. 2 67-04 M03-66851
OPTIMIZATION OF PROPORTIONING LIMESTONE INTO A COPPER CHARGE 67-04 M03-66963
EFFECT OF RATE OF MAGNESIOTHERMAL PRODUCTION OF TITANIUM SPONGE ON ITS STRUCTURE 67-04 M03-66975
KINETIC STUDY ON THE HYDROGEN REDUCTION OF SOME NONFERROUS METAL OXIDES 67-04 M03-67030
REDUCTION OF MAGNESIUM FERRITE AND CHROMITE IN SOLID SOLUTIONS 67-04 M03-67096
PRODUCTION OF A MASTER ALLOY FROM AN ALUMINUM-TITANIUM ALLOY BY REDUCTION OF TITANIUM TETRACHLORIDE -- WITH ALUMINUM-- 67-04 M03-67133
FIRST COMMERCIAL-SCALE H2 REDUCTION PLANT FOR CU ON STREAM 67-04 M03-67496
ON THE EXTRACTION OF NICKEL AS NICKEL CARBONYL FROM LATERITIC ORES 67-04 M03-67721
OBTAINING PURE METALS BY CHEMICAL METHODS 67-04 M03-67843
THE REDUCING FUNCTION OF GASES IN A BLAST FURNACE OPERATING ON FLUXED SINTER AND NATURAL GAS 67-04 M04-67602

COMBUSTION PROCESS IN A BLAST FURNACE DURING NATURAL GAS BLOWING 67-04 M04-67604
GASEOUS REDUCTION IN THE BLAST-FURNACE STACK DURING THE USE OF NATURAL GAS 67-04 M04-67681
AN EFFICIENT METHOD OF PRODUCTION CONTROL FOR BLAST-FURNACE SINTER REDUCIBILITY 67-05 M02-68735
SINTER-ROASTING OF COPPER ELECTROLYTIC SLIMES WITH SODA IN A SHAFT FURNACE 67-05 M03-68228
BEHAVIOR OF IRON ORE PELLETS SUBJECTED TO REDUCTION 67-05 M03-68458
PRE-OXIDATION OF ILMENITE ORES AND ITS BEARING ON THEIR SOLID-STATE REDUCTION BY HYDROGEN 67-05 M03-68475
THE EFFECT OF IRON OXIDE ON THE REDUCTION OF GALENITE 67-05 M03-68958
MECHANISM OF THE INTERACTION OF ELEMENTARY TE AND SE WITH AL POWDER IN AN ALKALI MEDIUM 67-05 M03-68967
REDUCTION PROCESSES IN THE BLAST FURNACE SHAFT WHEN OPERATING ON COMBINATION BLAST 67-05 M04-68317
USING THE REDUCING CAPACITY OF NATURAL GAS IN THE PRODUCTION OF BASIC PHOSPHORUS IRON 67-05 M04-68318
ON THE ABNORMAL BEHAVIOR OF HEMATITE ORE DURING REDUCTION 67-05 M04-69479
KINETIC CHARACTERISTICS OF REDUCTION OF IRON ORE PELLETS BY HYDROGEN AND BY METHANE 67-05 M04-69503
REDUCTION OF FLUXED AGGLOMERATE BY CARBON BLACK IN A STREAM OF NITROGEN, CARBON MONOXIDE AND THEIR MIXTURES 67-05 M04-69509
THE CARBIDOTHERMIC PREPARATION OF METALLIC VANADIUM AND VANADIUM ALLOYS 67-05 M14-68584
DECOMPOSITION MECHANISM OF ZIRCON IN SINTERING WITH PRODUCTS OF REDUCTION OF SODIUM SULFATE WITH CARBON 67-05 M14-69263
MAGNETIC SUSCEPTIBILITY CHANGES IN SILVER POWDERS DURING OXIDATION-REDUCTION CYCLING 67-05 M15-69032
GENERALIZED MODEL FOR THE GASEOUS, TOPOCHEMICAL REDUCTION OF POROUS HEMATITE SPHERES 67-06 M02-71612
REDUCTION OF ZINC OXIDE BY CARBON MONOXIDE IN THE PRESENCE OF STRONTIUM OXIDE 67-06 M03-69942
REDUCING VANADIUM PENTOXIDE BY ALUMINUM 67-06 M03-69997
REDUCING CESIUM CHLORIDE BY SILICOCALCIUM 67-06 M03-69999
REDUCING NIOBIUM PENTACHLORIDE BY HYDROGEN 67-06 M03-70000
VANADIUM FOIL FOR NUCLEAR RESEARCH 67-06 M03-70161
METHOD OF OBTAINING VANADIUM 67-06 M03-70938
MAGNESIUM THERMAL METHOD OF OBTAINING TITANIUM-ALUMINUM ALLOYS 67-06 M03-70947
EFFECTIVENESS OF COMPLEX TREATMENT OF RED MUD IN ROTARY FURNACES 67-06 M03-71351
QUALITY OF MAGNESIUM-REDUCED TITANIUM SPONGE AS MEASURED FROM THE RESIDUAL AMOUNT OF CHLORINE 67-06 M03-71354
DIRECT ACID PRESSURE LEACHING OF CHALCOCITE CONCENTRATE 67-06 M03-72075
THE MECHANISM OF THE REDUCTION OF COPPER FROM FINE LAYERS OF ITS OXIDE 67-06 M03-72104
APPLICATION OF A GENERALIZED RATE EQUATION TO THE GASEOUS REDUCTION OF IRON OXIDE 67-06 M04-69902
USE OF COKE FROM THE CHARGE WITH INCREASED PARTICIPATION BY GAS COALS WHEN SMELTING 75 PER CENT FERROSILICON 67-06 M04-70742
KINETICS OF SILICA REDUCTION BY CARBON-SATURATED IRON. PT. 2. REDUCTION OF SOLID SILICA BY CARBON IN LIQUID IRON 67-06 M04-70811
CERAMIC THERMOCHEMISTRY. PT. 2 67-06 M05-70611
PHASE EQUILIBRIUM AND THE MECHANISM OF REDUCING SOLID SOLUTIONS IN THE SPINEL REGION OF THE MG-AL-CR-FE-O SYSTEM 67-06 M14-69975
THE NATURE OF THE INTERACTION OF ZIRCONIUM DIOXIDE WITH TITANIUM, NIOBIUM AND CHROMIUM CARBIDES 67-06 M14-71101
RADIOACTIVE ISOTOPE INVESTIGATION OF THE REDUCTION KINETICS OF SOME CHEMICAL COMPOUNDS OF ZN IN TUBULAR FURNACES 67-07 M03-73040
MANGANESE RECOVERY AS CHLORIDE FROM ORES AND SLAGS 67-07 M03-73094
READYING THE SWITCH TO ZIRCONIUM 67-07 M03-73212
PHENOMENON IN THE DIRECT ELECTROLYTIC REDUCTION OF RED LEAD ON MERCURY SUBSTRATE 67-07 M03-73299
REDUCTION MECHANISM OF TIN CONCENTRATE AND SLAG 67-07 M03-73412
REDUCTION OF ANTIMONY FROM SULFIDE-ALKALI SOLUTION WITH COPPER 67-07 M03-73417
REDUCTION OF SAMARIUM IONS ON A GALLIUM CATHODE LAYER 67-07 M03-73477
METALLURGICAL TESTING OF HAWAIIAN FERRUGINOUS BAUXITES--CONCLUDING REPORT 67-07 M03-74000
THE PURIFICATION PLANT FOR CONCENTRATES AT THE CENTRO NACIONAL DE ENERGIA NUCLEAR JUAN VIGON 67-07 M03-74098
AN APPROXIMATE ANALYSIS FOR THE REDUCTION OF IRON-OXIDE PELLETS IN THE MIXED-CONTROL MECHANISM 67-07 M04-72535
INVESTIGATING REDUCTION PROCESSES IN THE BLAST-FURNACE STACK DURING OPERATION ON COMBINED BLAST 67-07 M04-72845
UTILIZATION OF REDUCING CAPACITY OF NATURAL GAS IN PRODUCTION OF STEELMAKING PHOSPHORIC PIG IRON 67-07 M04-72846
MELTING BEHAVIOR OF CARBON-CONTAINING IRON SPONGE IN A ROTARY MELTING FURNACE 67-07 M04-73267
REDUCTION OF IRON ORES 67-07 M04-74286
TREATING IRON WITH A MIXTURE OF MAGNESIUM SALTS AND REDUCING AGENTS IN A TURBULENT STREAM 67-07 M06-74037
TECHNOLOGY OF ELECTROLYTIC REDUCTION OF ALUMINA BY THE HALL-HEROULT PROCESS. PT. 3. THE ANODE REACTION DURING ELECTROLYTIC DECOMPOSITION OF THE ALUMINA 67-07 M08-73609
A METHOD FOR PREPARING DENSE SPHERICAL PARTICLES OF THORIUM AND THORIUM-URANIUM DICARBIDES 67-07 M09-73151
THE ELECTROCHEMICAL PARAMETERS OF STAINLESS STEEL PASSIVATION BY SOME REVERSIBLE REDOX-SYSTEMS 67-07 M18-73700
EFFECT OF PH ON THE CONDITION OF THE PYRITE SURFACE 67-08 M02-75086
SOME PROBLEMS OF THE CARBIDOTHERMIC REDUCTION OF ALKALINE EARTHS 67-08 M03-74883
ON THE BEHAVIOR OF COMPONENTS OF OXIDIZED LEAD-ZINC ORE DURING REDUCTION WITH CARBON 67-08 M03-74893
SEMI-INDUSTRIAL VIBRATION FURNACE FOR PRODUCING ALKALINE METALS --POTASSIUM--BY THE VACUUM-THERMAL METHOD 67-08 M03-75145
THE CARBOTHERMIC REDUCTION OF METALS FROM THEIR OXIDES 67-08 M03-75146
ALUMINUM REDUCTION--EVALUATING 5 PER CENT LIF-MODIFIED HALL BATH IN 10-KA EXPERIMENTAL REDUCTION CELLS 67-08 M03-75312
EXTRACTIVE PROCESSES 67-08 M03-75617
INVESTIGATION OF THE DETINNING OF RAW LEAD 67-08 M03-75691
INFLUENCE OF SURFACTANTS ON THE RATE OF OXIDE REDUCTION IN SLAG MELTS 67-08 M03-76238
STUDY OF THE PRODUCTION OF FERROMANGANESE FROM CONCENTRATES OF CARBONATE ORES 67-08 M04-74579
UTILIZATION OF PARTIALLY REDUCED ORE FOR CUPOLA CHARGE 67-08 M04-74675
CHARACTERISTIC CHANGES IN CHARGE MATERIALS IN A BLAST FURNACE WHEN OPERATING ON STEAM BLAST AND NATURAL GAS 67-08 M04-75864
DEGREE OF UTILIZATION OF THE REDUCING CAPACITY OF BLAST FURNACE GASES 67-08 M04-76264
KINETICS AND MECHANISM OF THE ELECTRODE REACTIONS ON IRON IN NITRATE SOLUTIONS 67-08 M14-74789
ELECTROCHEMICAL NATURE OF SILICON TRANSFER BETWEEN MOLTEN AG-SI ALLOY AND CAO-B2O3-SIO2 SLAG 67-08 M14-75565
ON REDUCING VANADIUM FROM ALKALINE SOLUTIONS BY CEMENTATION 67-09 M02-76993
THE REDUCTION OF WUSTITE WITH MIXTURES OF HYDROGEN-STEAM AND CARBON MONOXIDE-DIOXIDE MIXTURES 67-09 M02-77844
NEW METHOD OF MANUFACTURING LOW-SILICON ZIRCONIUM ALLOYS 67-09 M03-76823
EFFECT OF SOME FACTORS ON THE ALUMINOTHERMAL PROCESS OF PREPARING ALB12 COMPOUNDS 67-09 M03-76852
OBTAINING MAGNESIUM METAL 67-09 M03-76866
TUBULAR REVOLVING HORIZONTAL FURNACE FOR REDUCING NICKEL OXIDE 67-09 M03-76870
MANUFACTURING OF CHROMIUM COMPACTS BY THE CHLORIDE

REDUCTION /CHEMICAL/

METHOD AND STUDY OF THEIR PHYSICAL AND MECHANICAL PROPERTIES 67-09 M03-76968
INVESTIGATION OF THE GASEOUS PHASE AND CONDITIONS OF DEGASSING CHARGES IN THE PRODUCTION OF ALKALINE METALS BY VACUUM-THERMAL METHODS 67-09 M03-77049
INVESTIGATION OF THE ELECTROLYTIC REDUCTION OF TITANIUM SULFATE --4-- DURING THE MANUFACTURE OF HIGHLY DISPERSED POWDERED COPPER 67-09 M03-77050
EXTRACTION OF RHODIUM BY AMMONIA-BASE QUATERNARY CHLORIDES 67-09 M03-77119
STUDIES ON THE REDUCTION OF THORIA BY CALCIUM 67-09 M03-77254
EXAMPLES OF APPLICATION OF THE ELECTRON BOMBARDMENT FURNACE IN METALLURGICAL CHEMISTRY 67-09 M03-77831
THE BEHAVIOR OF FLUX CACL2 IN THE CALCIUM REDUCTION PROCESS OF THO2 67-09 M03-78235
HIGH-TITANIA SLAG SMELTING OF NEW ZEALAND TITANIUM ORES 67-09 M03-78269
CURRENT METHODS FOR THE PRODUCTION OF PREREDUCED MATERIALS. PT. 4 67-09 M04-76397
INVESTIGATION OF REDUCTION LAYERS OF FE203 BY ELECTRON DIFFRACTION AND OPTICAL MICROSCOPY 67-09 M04-77189
THE LABORATORY DETERMINATION OF MATERIAL CONVERSION RATES AND THEIR APPLICATION TO A SPECIAL KINETIC-MATHEMATICAL MODEL OF A BLAST FURNACE 67-09 M04-77342
REDUCTION IN BLAST FURNACES OF THE ORSKOKHALILOVSKII METALLURGICAL COMBINE 67-09 M04-77622
CONTROL OF THE DEGREE OF INDIRECT IRON REDUCTION IN A BLAST FURNACE 67-09 M04-77855
REDUCTION KINETICS OF IRON OXIDE PELLETS WITH HYDROGEN AT LOWER TEMPERATURES 67-09 M04-77985
HYDROGEN REDUCTION OF IRON OXIDE AT HIGH TEMPERATURES 67-09 M04-78250
INVESTIGATION OF THE CONDITIONS OF PREPARATION OF YB6-LAB6 ALLOYS 67-09 M09-76912
VAPOR DEPOSITION OF TUNGSTEN BY HYDROGEN REDUCTION OF TUNGSTEN HEXAFLUORIDE--PROCESS VARIABLES AND PROPERTIES OF THE DEPOSIT 67-09 M12-76625
MONOXIDE-TYPE COMPOUNDS OF URANIUM AND PLUTONIUM. PT. 1. OXYCARBIDES 67-09 M14-76755
MECHANISM OF TIC SYNTHESIS IN THE PRESENCE OF HYDROCARBONS 67-09 M14-76882
SIZE EFFECTS DURING OXIDATION AND SUBSEQUENT REDUCTION OF STEEL WIRE 67-09 M18-77355
ALUMINUM CELL CATHODES 67-09 M20-77137
INORGANIC CHEMISTRY. A GUIDE TO ADVANCED STUDY 67-10 M01-79615
BENEFICIATION OF ASWAN IRON ORES 67-10 M02-79054
A STUDY OF THE SEMIREDUCTION OF WABANA IRON ORE 67-10 M02-79563
ROASTING IN EXTRACTIVE METALLURGY--A THERMODYNAMIC AND KINETIC REVIEW 67-10 M02-79946
THERMODYNAMIC CONSIDERATIONS ON MELTING HIGH-PURITY NICKEL AND NICKEL ALLOYS 67-10 M03-78316
MANUFACTURING PROBLEMS OF METALLIC SODIUM 67-10 M03-78317
INVESTIGATION OF THE REDUCTION OF NIOBIUM PENTACHLORIDE BY HYDROVEN 67-10 M03-79137
CHEMISTRY OF THE COPPER CONVERTER 67-10 M03-79376
REDUCTION OF CERUSSITE WITH CARBON MONOXIDE 67-10 M03-79829
CONVERSION OF NICKEL CARBONATE INTO METALLIC NICKEL 67-10 M03-79852
REDUCTION OF OXIDIZED ANODE COPPER WITH NATURAL GAS 67-10 M03-80051
DEGREE OF UTILIZATION OF REDUCING CAPACITY OF GASES IN BLAST FURNACE 67-10 M04-79257
ON DEGRADATION OF SINTER DURING CHEMICAL REDUCTION 67-10 M04-79991
A STUDY OF THE PREPARATION OF LEAD POWDER BY DIRECT REDUCTION OF LEAD MONOXIDE AND LEAD DIOXIDE 67-10 M09-78756
INTERACTION OF CONTROLLED ATMOSPHERES WITH METALS 67-10 M10-79216
EQUILIBRIUM REACTION OF THE DISSOCIATION AND REDUCTION OF IRON OXIDE PHOSPHATES 67-10 M14-79316
THE THEORY OF THE CATHODIC REDUCTION OF MANGANESE DIOXIDE 67-11 M03-80449
THERMODYNAMICS OF REDUCTION OF RUBIDIUM CHLORIDE BY SILICOCALCIUM 67-11 M03-81439
STUDY OF THE REDUCTION OF RUBIDIUM FLUROIDE BY SILICOCALCIUM 67-11 M03-81440
STUDY OF SILICOCALCIO-THERMAL PREPARATION OF CESIUM FROM ITS FLUORIDE 67-11 M03-81441
THERMODYNAMICS OF THE REDUCTION OF CESIUM CHLORIDE BY SILICOCALCIUM 67-11 M03-81442
REDUCTION OF ZINC FROM ZINC FERRITE IN THE PRESENCE OF CARBON 67-11 M03-81611
THE VARIATIONS OF THE COMPONENTS IN THE INCLUSION 67-11 M04-80750
REDUCTION OF IRON ORES IN THE BLAST FURNACE STACK 67-11 M04-80795
EFFECT OF STEAM AND CARBON DIOXIDE ON THE REDUCTION OF AGGLOMERATES BY CARBON MONOXIDE 67-11 M04-80848
REDUCTION PROCESSES IN BLAST FURNACES OF ORSK-KHALILOVO COMBINE 67-11 M04-80910
SELECTIVE REDUCTION OF ELEMENTS FROM A VANADIUM CONVERTER SLAG 67-11 M04-81407
REDUCTION OF SILICON FROM OXIDE MELTS BY THE CARBON PRESENT IN PIG IRON 67-11 M04-81642
IRON POWDER VIA FECL2 TO GO COMMERCIAL 67-11 M09-81359
REDUCTION OF OXYGEN ON IRON AND IONIZATION OF IRON IN THE PRESENCE OF DISSOLVED OXYGEN 67-11 M14-81276
KINETICS OF THE REACTION OF IRON, NICKEL AND COBALT OXIDES WITH GRAPHITE 67-11 M14-81372
CHARACTERISTICS OF BRAZILIAN IRON ORES AND THEIR AGGLOMERATES 67-12 M02-83255
GAS EVOLUTION IN PLUTONIUM REDUCTIONS 67-12 M03-81829
PRODUCTION OF BORON BY REDUCING BCL3 WITH HYDROGEN 67-12 M03-82486
KINETICS OF JOINT CARBOTHERMIC REDUCTION OF NIOBIUM AND TUNGSTEN 67-12 M03-83095
REDUCTION OF IRON ORE MATERIALS BY CARBON MONOXIDE MIXED WITH HYDROGEN 67-12 M04-81703
REDUCTION OF MAGNESIA FROM THE LINING IN THE PRODUCTION OF STEEL TREATED WITH ALUMINIUM 67-12 M04-82109
THE RATE AND MECHANISM OF THE REDUCTION OF FEO AND MNO FROM SILICATE AND ALUMINATE SLAGS BY CARBON-SATURATED IRON 67-12 M04-82724
CONTRIBUTION TO THE KNOWLEDGE OF THE PHENOMENA OCCURRING DURING THE REDUCTION OF PURE IRON OXIDES. PT. 1. INVESTIGATIONS ON THE KINETICS OF REDUCTION OF IRON OXIDES CONSIDERING PARTICULARLY THE POROSITY AS WELL AS THE ABSOLUTE AND PARTIAL PRESSURE OF THE COMPONENTS OF THE GAS PHASE 67-12 M04-83391
STUDY OF THE MECHANISMS FOR REDUCTION OF HEMATITE FI203 TO MAGNETITE FE304 67-12 M04-83512
ELECTRON MICROSCOPE STUDY OF THE REDUCTION OF NICKEL OXIDE BY HYDROGEN 67-12 M14-81812
ON THE PREPARATION OF SOME CHROMIUM, MOLYBDENUM AND TUNGSTEN BORIDES 67-12 M14-81830
THE INFLUENCE OF A THERMAL TREATMENT, UNDER VACUUM, OF NICKEL OXIDE ON THE KINETICS OF ITS REDUCTION BY HYDROGEN 67-12 M14-82232

REDUCTION /CHEMICAL/, AUTOMATION
MATHEMATICAL MODELING OF THE PROCESSES AT COPPER SMELTING MILL 67-07 M03-73413

REDUCTION /CHEMICAL/, MATHEMATICAL MODELS
IMPROVED MATHEMATICAL MODEL FOR GASEOUS REDUCTION OF HEMATITE IN A FIXED BED 67-01 M04-57902

REDUCTION /CHEMICAL/, STEEL MAKING
REDUCTION KINETICS IN TITANIFEROUS SLAGS 67-10 M04-79948

REDUCTION /METAL WORKING/
SEE ALSO AUSROLLING
COLD DRAWING
COLD ROLLING
CONTINUOUS ROLLING
CROSS ROLLING
DEEP DRAWING
DIE DRAWING
FLOW TURNING
HOT DRAWING
HOT ROLLING
METAL DRAWING
METAL ROLLING
PACK ROLLING
PLUG ROLLING
ROLL PLANISHING
SANDWICH ROLLING
SKIN PASS ROLLING

SPINNING /METALS/
TENSION ROLLING
WIRE DRAWING
COPPER TUBE TAKES ONE-PRODUCT ROUTE 67-03 M07-65433
POWER AND FORCE PARAMETERS IN ROLLING SHAPED SECTIONS FROM CAST BILLETS 67-04 M07-67691
COMBINATION DRAWING OF LIGHT-GAGE MATERIAL 67-05 M07-69440
AN INVESTIGATION INTO THE INFLUENCE OF EDGE SHAPE ON CRACKING DURING ROLLING 67-05 M17-69560
REDUCING SHAFT BILLETS IN A SPECIAL DIE 67-08 M07-75483
CLOSED DIES WITH A SLIDING BLOCK FOR REDUCING BILLETS 67-08 M08-75485
INFLUENCE OF REDUCTION OF CROSS SECTION UNDER TENSILE STRESS ON ANISOTROPY AND TEXTURE OF COLD ROLLED POLYCRYSTALLINE NICKEL 67-08 M17-76224
EFFECT OF TECHNICAL PARAMETERS AND METHODS OF DEFORMATION ON THE RUPTURE OF THE AXIAL ZONE DURING HELICAL CROSS ROLLING 67-10 M07-78976
HOT ROLLING OF CHROMIUM 2H17 STEEL WITH HEAVY REDUCTIONS 67-10 M07-79865
DEFORMATION AND CONTROLLED ANNEALING OF U-S3M --CU-3 PER CENT SI-1 PER CENT MN-- ALLOY SHEET 67-12 M17-83501

REDUCTION OF AREA
REDUCTION OF AREA IN HOT DEFORMATION BY TENSILE STRESS 67-02 M17-61996
SUPPLEMENTAL REPORT ON THE ELEVATED-TEMPERATURE PROPERTIES OF CHROMIUM-MOLYBDENUM STEELS 67-04 M17-66289
STUDY ON HELICAL ROLLING. PT. 1. PRELIMINARY EXPERIMENT WITH LEAD BILLETS 67-05 M07-69370
PREDICTION OF PHYSICAL PROPERTIES IN ARC WELDING 67-06 M17-71687
THE ANISOTROPY COEFFICIENT OF DUCTILITY AS A FACTOR RELATED TO STEEL PURITY AND FATIGUE PROPERTIES OF FORGINGS 67-08 M17-75816
ANISOTROPY OF DEFORMED POLYCRYSTALLINE NICKEL 67-10 M17-78707
REDUCTION OF AREA DURING TENSILE STRESSING OF MONOCRYSTALS OF AN 8 PER CENT ZN-AL ALLOY 67-10 M17-80019

REDUCTION OF AREA, STRESS EFFECTS
FUNDAMENTAL MATERIAL INVESTIGATIONS WITH RESPECT TO DEFORMATION AT INTERMEDIATE TEMPERATURES 67-04 M17-67409

REDUCTION POTENTIAL
SEE ELECTRODE POTENTIALS

REELING
SEE WINDING

REELS, CLEANING
80-IN. HCL PICKLING LINE AND REGENERATION PLANT AT THE STEEL CO. OF CANADA 67-04 M12-68105
HORIZONTAL PICKLING LINE DESIGNED FOR HYDROCHLORIC ACID 67-06 M12-70842

REELS, COATING
CONTINUOUSLY ANODIZED ALUMINUM COIL 67-04 M12-67718
BETHLEHEMS PINOLE POINT GALVANIZING FACILITY IS IN OPERATION 67-04 M12-68110

REELS, HEAT TREATMENT
THE HEATING AND COOLING OF OPEN COILS IN SINGLE-PILE BELL FURNACES 67-09 M10-77346

REENTRY VEHICLES
TECHNIQUES FOR ELEVATED-TEMPERATURE TENSILE TESTING OF THIN SUPER ALLOYS 67-05 M17-68670
MEASUREMENT OF BORON FILAMENTARY COMPOSITE BEHAVIOR RELATIVE TO MECHANICAL DESIGN OF RE-ENTRY VEHICLE STRUCTURES 67-06 M17-70616
AEROSPACE APPLICATIONS OF REFRACTORY METALS 67-06 M20-72074
PROGRESS REPORT--DEVELOPMENT OF ADVANCED COMPOSITE STRUCTURES 67-07 M09-73346

REENTRY VEHICLES, MATERIALS
THE DEVELOPMENT AND EVALUATION OF HYPEREUTECTIC CARBIDES 67-02 M05-60712
PYROLYTIC MATERIALS 67-02 M14-60711
INFLUENCE OF BOOST GLIDE REENTRY VEHICLE ENVIRONMENT ON COATED AND BASE REFRACTORY METALS 67-04 M18-67214
FABRICATION OF FILAMENT WOUND BORON REINFORCED COMPOSITES FOR RE-ENTRY VEHICLE APPLICATIONS 67-06 M09-70620

REFINERIES
THE PRODUCTION OF CITY GAS BY THE OXIDIZING CATALYTIC CRACKING OF PETROLEUM HYDROCARBONS 67-05 M17-69353
CORROSION MEASURING METHODS IN PETROLEUM PROCESSING INSTALLATIONS 67-10 M18-79970

REFINERIES, CORROSION
ULTRASONIC NONDESTRUCTIVE TESTS. CORROSION AND MATERIAL FLAW DETECTION 67-06 M18-71225

REFINING
SEE ALSO ELECTROREFINING
EXTRACTION METALLURGY 67-01 M01-58663
SOME CHARACTERISTICS OF THE SEPARATION OF ZIRCONIUM AND HAFNIUM BY CRYSTALLIZATION OF COMPLEX FLUORIDES 67-01 M02-57307
REFINING MAGNESIUM WITH TITANIUM TETRACHLORIDE VAPORS 67-01 M03-57275
PREPARATION OF ZINC ALLOYS WITH CADIUM FROM SCRAP OF REFINED CADMIUM 67-01 M03-58154
THE PRODUCTION OF PURE IRON AND FERROUS ALLOYS 67-01 M04-57380
METHODS OF DETERMINING THE DISTRIBUTION RATIOS OF VOLATILE IMPURITIES DURING GROWING OF GALLIUM ARSENIDE SINGLE CRYSTALS BY DIRECTED CRYSTALLIZATION 67-01 M14-57696
REDUCTION OF CALCIUM AND DUCTILITY OF NICKEL-CHROMIUM BASE ALLOYS 67-02 M03-58857
PREPARATION OF PURE ANTIMONY FROM CZECHOSLOVAKIAN RAW MATERIAL CONTAINING COPPER 67-02 M03-58864
METHOD FOR PROCESSING VANADIUM CONTAINING NITROGEN 67-02 M03-59551
METHOD OF REFINING METAL AND FUSIBLE ALLOYS, MAINLY ZINC AND ITS ALLOYS 67-02 M03-59562
PRODUCTION OF METALS OR ALLOYS FROM ASH, SCALE AND FROM THE LIGHT FRACTION OF FUSIBLE ALLOYS 67-02 M03-59573
STUDY OF ELECTRODE PROCESSES IN ELECTROLYTIC PRODUCTION AND REFINING OF TITANIUM IN FUSED SALTS 67-02 M03-59640
ELECTROMAGNETIC SEPARATION OF FESN2 CRYSTALS FROM LIQUID TIN 67-02 M03-59881
HOW ALUMINA AFFECTS COPPER MELT SLAGS 67-02 M03-60090
COMPARATIVE EFFICIENCY OF SUBHALIDE REFINING OF ALUMINUM 67-02 M03-60538
PURIFICATION OF COPPER BY THE ZONE MELTING METHOD 67-02 M03-60819
ENERGY BALANCE OF AN EXPERIMENTAL-INDUSTRIAL ELECTROLYZER USED IN 'TRIPLE-LAYER REFINING OF MAGNESIUM ALLOY SCRAP AND WASTE PRODUCTS 67-02 M03-62218
METHOD FOR THE SELECTIVE REFINING OF STEEL OR OTHER METALS IN OXYGEN CONVERTERS 67-02 M04-59560
DETERMINATION OF THE EFFECT OF VACUUM DEGASSING ON THE QUANTITY OF INCLUSIONS IN STEEL 67-02 M04-59590
MELTING OF CARBON FERROMANGANESE FROM HYDROMETALLURGICAL MANGANESE CONCENTRATE 67-02 M04-59863
REFINING IRON-CONTAMINATED ZINC BY FILTRATION AND CENTRIFUGATION 67-04 M03-66299
USE OF SPONGE IRON IN THE V-TROUGH PRECIPITATOR 67-04 M03-66892
ELECTROLYZER FOR THREE-LAYER REFINING OF MAGNESIUM ALLOY SCRAP AND WASTES AND MAGNESIUM RAW SOURCE MATERIALS 67-04 M03-66960
A COMPARATIVE EVALUATION OF TWO PLANS FOR REPROCESSING LIQUID MAGNESIUM RAW MATERIAL 67-04 M03-66973
DECOPPERING AND DELEADING CADMIUM SOLUTIONS 67-04 M03-67525
EFFECT OF THE WASHING PROCESS ON THE SETTLING RATE OF RED MUDS FROM ALUMINA PRODUCTION 67-04 M03-67529
OBTAINING PURE METALS BY CHEMICAL METHODS 67-04 M03-67843
REVIEW ON ELECTROSLAG REMELTING 67-04 M04-67185
MAGNESIUM OXIDE IN BLAST FURNACE SLAGS 67-04 M04-67542
DEGASIFICATION OF METAL WHILE BEING TREATED WITH SLAGS 67-04 M04-67869
METALLURGY IN THE SEMICONDUCTOR INDUSTRY 67-04 M16-68044
RESISTANCE TO HOT CRACKING OF STEEL REFINED BY MEANS OF SYNTHETIC SLAGS 67-04 M17-66215
ELECTROSLAG REMELTING OF CU 67-05 M03-68233
THE EFFECT OF IRON OXIDE ON THE REDUCTION OF GALENITE 67-05 M03-68958
REGULARITIES IN ELIMINATION OF NONMETALLIC INCLUSIONS DURING VACUUM ARC MELTING

67-05 M04-69605
COLUMN FLOTATION 67-06 M02-71887
AN INTENSIFIED METHOD OF EXTRACTING THORIUM AND RARE EARTHS FROM MONAZITE BY TREATING IT WITH ALKALIS 67-06 M03-69969
ELECTRIC RESISTANCE FURNACE FOR REFINING MAGNESIUM 67-06 M03-70144
REMOVAL OF CERIUM FROM SAMARIUM BY THE AMALGAM METHOD 67-06 M03-70158
THE INFLUENCES OF OXYGEN CONTENT IN ANODE COPPER AND IN ELECTROLYTE ON COURSE OF ELECTROLYTIC COPPER REFINING 67-06 M03-70854
SEPARATION OF COPPER AND SULFUR FROM HIGH-FERROUS OXIDE MELTS 67-06 M03-72103
STEEL DEGASSING, REFINING AND REHEATING IN A SINGLE LADLE 67-06 M04-70693
ELECTRIC SMELTING OF PIG IRON FROM CHOKODAM-BULAK ORES 67-06 M04-71102
DIRECT IRONMAKING PROCESSES.. A CHALLENGE TO THE BLAST FURNACE 67-06 M04-72008
AUSTRALIANS TRY CONTINUOUS COPPERMAKING PROCESS 67-07 M03-72527
AUTOMATIC SEPARATION OF CU FROM NICKEL ELECTROLYTE IN FLUID BED CEMENTATORS 67-07 M03-73410
MELTING MAGNESIUM CHIPS AND MAGNESIUM ALLOYS WITH FL5 FLUX 67-07 M03-73421
THE DISTRIBUTION OF LEAD BETWEEN THE METAL AND THE SLAG IN DRY COPPER REFINING 67-07 M03-74106
DETERMINATION AND CONTROL OF THE HYDROGEN CONTENT OF STEELMAKING SLAGS 67-07 M04-73008
DEGASSING TRIALS OF STEEL BY TREATMENT WITH LIQUID SLAG 67-07 M04-73019
REFINING CABLE STEEL IN THE LADLE BY A SLAG FORMING MIXTURE AND SIMULTANEOUS ARGON BLOWING 67-07 M04-73778
TREATING IRON WITH A MIXTURE OF MAGNESIUM SALTS AND REDUCING AGENTS IN A TURBULENT STREAM 67-07 M06-74037
TREATING CAST IRON WITH LIQUID SYNTHETIC SLAG 67-07 M06-74038
THE STRUCTURE OF THE COPPER-NICKEL-OXYGEN SYSTEM AND ITS EFFECT ON THE BEHAVIOR OF NICKEL IN DRY COPPER REFINING 67-08 M03-75693
FLAKY GRAPHITE CAST IRON AND HYPEREUTECTOID GRAPHITE CAST STEEL REFINED WITH REDUCING SLAG 67-08 M04-74402
STUDY OF THE PRODUCTION OF FERROMANGANESE FROM CONCENTRATES OF CARBONATE ORES 67-08 M04-74579
A NEW METHOD FOR REFINING METALS 67-09 M03-76691
TUBULAR REVOLVING HORIZONTAL FURNACE FOR REDUCING NICKEL OXIDE 67-09 M03-76870
APPLICATION OF TRACERS IN THE ALUMINUM-INDUSTRY. PT. 1. DETERMINATION OF CURRENT EFFICIENCY IN ELECTROLYTIC FURNACES 67-09 M03-77529
PURIFICATION OF TUNGSTEN HEXACHLORIDE 67-09 M03-77691
POSSIBILITIES OF IMPROVING ALUMINA PURITY 67-09 M03-77760
OXIDE DROSS IN ALUMINIUM BRONZES 67-09 M03-77799
REFINING CABLE STEEL IN LADLE WITH A SLAG-FORMING MIXTURE AND INJECTING IT WITH ARGON 67-09 M04-76541
MELTING MANGANESE--ALUMINIUM STEEL IN AN ELECTRIC FURNACE UNDER A LIME-ALUMINA SLAG 67-09 M04-76543
REFINING FERROSILICON FROM ALUMINUM WITH FORMATION OF METALLIC MAGNESIUM 67-09 M04-76564
DEVICE FOR REFINING PIG IRON 67-09 M04-76833
BLOWING HIGH-MANGANESE IRON IN AN OXYGEN CONVERTER WITH WATER COOLING 67-09 M04-76893
PRODUCTION OF ALUMINIUM-KILLED STEEL SHAPES FOR LOW TEMPERATURE SERVICES--NK-LTC 67-09 M04-77336
REFINING STEEL IN ELECTRIC FURNACES BY BLOWING WITH POWDERED MIXTURES IN AN AIR JET 67-09 M04-77629
THE WORCRA PROCESSES FOR CONTINUOUS SMELTING AND REFINING 67-10 M01-78771
AN INPUT-OUTPUT MODEL TO CALCULATE THE PRODUCTION FLOW OF CATHODIC CU 67-10 M03-78314
ELECTROFLUX REMELTING IMPROVES PROPERTIES OF INCONEL 718 67-10 M03-78634
SEPARATION OF LEAD IMPURITY FROM NICKEL ELECTROLYTE 67-10 M03-79130
REFINING OF AL9 ALUMINUM ALLOY BY DIRECT CURRENT 67-10 M03-79146
EFFECT OF BASICITY AND THE O2 CONTENT IN THE BURDEN BOUND TO MN AND FE ON PROCESSES OCCURRING DURING THE PRODUCTION OF REFINED FEMN 67-10 M04-78649
THE REFINING OF HIGH-P PIG IRON BY THE OXYGEN CONVERTER PROCESS WITH CLASSIFIED, FINE-GRAINED STEELMAKING LIME 67-10 M04-78787
DEOXIDIZING RIMMING CONVERTER STEEL 67-10 M04-79818
SYNTHETIC SLAG TREATMENT FOR 38KHMYUA STEEL 67-10 M04-79823
APPLICATION OF SOLVENT EXTRACTION TO THE REFINING OF PRECIOUS METALS. PT. 1. PURIFICATION OF RHODIUM 67-11 M03-80310
EXTRACTION OF CHLOROUS MANGANESE, CHLORINE, AND ELECTROLYTE FOR ELECTROLYTIC MANGANESE FROM OXIDI MANGANESE ORE AND HYDROCHLORIC ACID 67-11 M03-80436
THE REOCL4-WOCL4 SYSTEM AND THE PURIFICATION OF RHENIUM BY RECTIFYING ITS OXYTETRA-CHLORIDE 67-11 M03-81177
METHOD FOR THE ACID TREATMENT OF ALUMINA RAW MATERIAL OF HIGH SILICA CONTENT 67-11 M03-81221
REFINING STEEL IN ELECTRIC FURNACES BY THE INJECTION OF POWDERED MIXTURES INTO THE AIR JET 67-11 M04-80917
AN EXAMINATION OF INDUSTRIAL-SCALE ELECTROLYTIC REFINING OF ALUMINUM USING LABELED ATOMS 67-12 M03-82489

REFINING, RADIATION EFFECTS
THE PRODUCTION OF ULTRAPURE STEELS IN ELECTRONIC BOMBARDMENT FURNACES 67-08 M04-75839

REFLECTANCE
THE REFLECTANCE OF THE INTERMETALLIC COMPOUNDS NIAL AND COAL 67-03 M15-65640
ELECTROREFLECTANCE MEASUREMENTS WITH THE ELECTROLYTE METHOD IN INFRARED 67-03 M16-65137
TEMPERATURE-MODULATED REFLECTANCE OF GOLD FROM 2 TO 10 EV 67-05 M15-69592
REFLECTANCE AND SURFACE CONDUCTIVITY OF ZINC OXIDE CRYSTALS 67-06 M16-70087
ELECTROMODULATION OF THE OPTICAL CONSTANTS OF RUTILE IN THE UV 67-09 M15-77177
OPTICAL PROPERTIES OF THE INTERMETALLIC COMPOUNDS AUAL2, AUGA2 AND AUIN2 67-10 M15-78907
OPTICAL PROPERTIES OF THE BETA- PHASE ALLOYS, AUZN, CUZN AND PDIN 67-11 M15-80324
ELECTROREFLECTANCE MEASUREMENTS ON GAXIN1-XAS ALLOYS 67-11 M16-80326

REFLECTION
SEE ALSO X RAY REFLECTION
DIRECT EDGE PIEZOREFLECTANCE IN GE AND GAAS 67-08 M16-75007

REFLECTIVE INSULATION
RECENT DEVELOPMENTS IN REFLECTING WALL SURFACES 67-08 M20-75983

REFLECTIVITY
THE CHEMISTRY OF THE MOLECULAR PLATING PROCESS 67-01 M12-58383
INFLUENCE OF DIFFERENT ACTIVE FACTORS ON THE APPEARANCE OF ANODIZED SHEET, SUSCEPTIBILITY OF THE CAUSES 67-02 M15-60557
QUALITATIVE DETERMINATION OF NONMETALLIC PHASES FROM THEIR REFLECTIVITY 67-02 M19-58874
A PHOTOMETRIC METHOD FOR DETERMINING REFLECTIVITY AND ADHERENCE OF DEPOSITED METAL 67-03 M12-65104
OPTICAL PROPERTIES OF THIN FILMS OF INDIUM 67-03 M15-65188
THE REFLECTANCE OF THE INTERMETALLIC COMPOUNDS NIAL AND COAL 67-03 M15-65640
DEPOSITION OF THIN FILMS UNDER THE INFLUENCE OF FAST ION IRRADIATION 67-04 M12-67057
THE REFLECTION SPECTRA OF SOLIDS, CONDITIONS AND LIMITS OF THE QUANTITATIVE EVALUATION OF THE KUBELKA-MUNK FUNCTION 67-04 M15-67252
OPTICAL PROPERTIES OF IN THIN FILMS 67-04 M15-67729
OPTICAL REFLECTION OF GALLIUM PHOSPHIDE, GALLIUM ARSENIDE, AND THEIR SOLID SOLUTIONS 67-05 M16-69382
NATIONAL METALLURGICAL LABORATORY, ANNUAL REPORT 67-06 M01-71435
THE OPTICAL PROPERTIES OF INDIUM, GALLIUM AND THALLIUM 67-06 M15-72089
VERY HIGHLY REFLECTIVE DIELECTRIC MIRROR COATINGS

WITH ZINC SELENIDE 67-06 M16-69962
FREE CARRIER OPTICAL CONSTANTS OF SNTE 67-06 M16-70469
PHOTOMETRIC METHOD OF DETERMINING THE REFLECTING POWER OF DEPOSITED METAL AND ITS ADHESION TO THE SUBSTRATE 67-07 M12-72788
OPTICAL PROPERTIES OF GETE 67-07 M15-73296
INFRARED LATTICE REFLECTION SPECTRA OF 2-6 COMPOUNDS 67-08 M15-75937
LUMINANCE FACTORS OF METAL POWDERS 67-08 M15-75950
OPTICAL PROPERTIES OF ZINC TELLURIDE IN THE INFRARED 67-08 M15-76168
ANISOTROPY IN LATTICE VIBRATIONS OF ZINC OXIDE 67-09 M15-77458
INVESTIGATION OF REFLECTIVITY AND STRUCTURE OF ELECTRODEPOSITED NICKEL DURING ELECTROLYSIS 67-10 M12-79940
PIEZO-OPTICAL CONSTANTS, DEFORMATION POTENTIALS, AND THE ELECTRONIC STRUCTURE OF COPPER 67-10 M15-80013
REFLECTIVITY MEASUREMENTS ON TRIGONAL SELENIUM SINGLE CRYSTALS IN THE SPECTRAL REGION BETWEEN 1.6 AND 6.0 EV 67-11 M15-80235
SOME NEW FEATURES OF THE REFLECTANCE SPECTRUM OF TRIGONAL SELENIUM SINGLE CRYSTALS 67-11 M15-80236
INTERPOLAR TRANSITIONS IN MOLYBDENUM 67-11 M15-80726
OPTICAL PROPERTIES AND BAND STRUCTUR OF TRIGONAL SELENIUM 67-11 M15-81387

REFLECTIVITY, PRESSURE EFFECTS
X-RAY DIFFRACTION AND OPTICAL OBSERVATIONS ON CRYSTALLINE SOLIDS UP TO 300 KBAR 67-05 M13-68652

REFLECTORS
VERY HIGHLY REFLECTIVE DIELECTRIC MIRROR COATINGS WITH ZINC SELENIDE 67-06 M16-69962
ELECTROFORMING ALUMINIUM 67-12 M12-83138

REFLEXION X RAY MICROSCOPY
SEE X RAY MICROSCOPY

REFRACTION
OPTICAL PROPERTIES OF SUPERCONDUCTING NB-TI ALLOYS 67-08 M15-74637

REFRACTIVE INDEX
SEE REFRACTIVITY

REFRACTIVITY
OPTICAL STUDIES ON VARIOUS ANODIC OXIDE FILMS ON AL 67-05 M15-68895
PREPARATION AND PROPERTIES OF SPUTTERED BISMUTH OXIDE FILMS 67-06 M12-71045
SOME OPTICAL PROPERTIES OF THIN EVAPORATED CD3AS2 FILMS 67-08 M15-75220
OPTICAL EFFECTS IN METALS APPLICATION OF A LEAST-SQUARES METHOD TO MEASUREMENTS ON GOLD AND SILVER 67-12 M15-82374

REFRACTORIES
SEE ALSO ACID REFRACTORIES
ALUMINOUS REFRACTORIES
BASIC REFRACTORIES
CHROMITE REFRACTORIES
FIREBRICK
MAGNESITE REFRACTORIES
REFRACTORY CONCRETES
SILICA BRICK
SILICEOUS REFRACTORIES
REFRACTORIES FOR ELECTRIC FURNACES SIDE WALLS AND BOTTOMS 67-01 M04-57522
REFRACTORIES AND FURNACE DESIGN FOR MELTING ALUMINUM 67-01 M05-57930
REFRACTORY COMPOUND FOR FIXING PARTS FOR BRAZING 67-01 M11-58190
TRENDS IN IRON AND STEEL PLANT REFRACTORIES 67-02 M04-61597
REFRACTORIES FROM KAOLINITE RAW MATERIAL WITH A HIGH-ALUMINA BINDER 67-02 M05-59776
HIGH-ALUMINA LIGHTWEIGHT PIECES MADE FROM SILLIMANITE RAW MATERIAL 67-02 M05-59782
USE OF ELECTROMELTED REFRACTORIES IN REHEATING FURNACES 67-02 M07-62067
METHOD OF TESTING REFRACTORY MATERIALS FOR PUSHER FURNACES 67-02 M07-62068
INFLUENCE OF SOME TECHNOLOGICAL FACTORS ON WEAR OF PERICLASE-SPINEL BRICK IN OXYGEN CONVERTERS 67-04 M04-66585
PROPERTIES OF SILICON CARBIDE WITH HIGH-REFRACTORY OXIDE ADDITIONS 67-04 M05-67817
RECENT BASIC GUNNING APPLICATIONS 67-05 M04-68696
REFRACTORIES FOR LINING THE TUNDISH IN THE CONTINUOUS CASTING OF TUBE STEEL 67-05 M04-69085
CRUCIBLE LININGS FOR CORELESS ELECTRIC INDUCTION FURNACES 67-05 M06-69887
INVESTIGATION OF THE EFFECTS OF BURDEN CONSTITUENTS ON BLAST FURNACE REFRACTORY LININGS 67-06 M04-71387
REBUILD OF GREAT LAKES STEELS NO. A BLAST FURNACE 67-06 M04-71388
MANUFACTURING POROUS CERAMIC PLUGS FOR BOTTOM BLOWING OF STEELS IN LADLES 67-06 M05-70562
PRODUCTION OF ALUMOSILICATE REFRACTORIES BY HYDROTHERMAL METHOD 67-06 M05-70563
IMPROVEMENT OF REFRACTORIES AND BASIC OXYGEN LD PLANT OPERATION AT KUKIOKA, JAPAN 67-07 M04-72495
THE HYDROGEN CONTENTS OF LIQUID STEEL FROM THE ELECTRIC ARC FURNACE WHEN USING LUMP LIME, LIME FINES, AND SMALL-SIZE SOFT-BURNT LIME 67-07 M04-72711
INVESTIGATIONS ON IRON OXIDE-CONTAINING SILICA BRICK 67-07 M04-73112
ALUMINUM NITRIDE- AND SILICON NITRIDE-BASED REFRACTORY MATERIALS 67-07 M05-72613
HEATING IN THE DROP FORGE. PT. 5. FURNACE REFRACTORIES 67-08 M04-74362
SILICEOUS ARTEFACTS AS REFRACTORY FOR BLAST HEATERS 67-11 M04-81627
RAMMED HIGH-ALUMINA MASSES FOR INDUCTION COPPER-SMELTING FURNACES 67-12 M03-82639
OXYGEN STEELMAKING IN THE BASIC OPENHEARTH FURNACE 67-12 M04-83074
EXPERIENCE WITH THREE BASIC ROOF OPENHEARTH INSTALLATIONS AT THE DURGAPUR STEEL PLANT 67-12 M04-83117
MINERALOGICAL INVESTIGATIONS OF THE WEAR OF TAR-BONDED DOLOMITE AND TAR-BONDED MAGNESITE REFRACTORY BRICKS IN OXYGEN CONVERTERS 67-12 M04-83128
CONTRIBUTION TO THE DISCUSSION OF PAPERS CONCERNING REFRACTORY PRODUCTS FOR THE OXYGEN CONVERTER PROCESS 67-12 M04-83129
THE RELATIONSHIP BETWEEN THE TEST PROPERTIES AND DURABILITY OF TAR-DOLOMITE REFRACTORY BRICKS IN OXYGEN CONVERTERS 67-12 M04-83140
METHODS FOR IMPROVING MASONRY AND BOTTOM LIFE OF THE THOMAS CONVERTER 67-12 M04-83346
POURING CHUTES FOR CENTRIFUGAL CASTING OF IRON PIPES 67-12 M06-83030

REFRACTORIES, ABRASIVES
POLISHING POWER OF REFRACTORY COMPOUNDS 67-12 M09-82785

REFRACTORIES, BONDING
INVESTIGATION OF SILICON CARBIDE BRICK 67-03 M05-65356

REFRACTORIES, CASTING
EFFECT OF CERTAIN FACTORS ON THE RHEOLOGICAL AND TECHNOLOGICAL PROPERTIES OF ALUMINA DROSS 67-02 M06-59780
PRODUCTION OF FUSED REFRACTORIES IN THE EXPERIMENTAL SHOP OF A REFRACTORY WORKS 67-08 M05-75595
PRODUCTION OF ROOF REFRACTORIES USING MAGNESITE-CHROMITE CLINKER 67-12 M05-81738

REFRACTORIES, CHEMICAL ATTACK
LIFE OF DINAS REFRACTORIES IN COPPER-REFINING FURNACES 67-07 M03-72779

REFRACTORIES, COATING
CONTROL OF HEARTH REFRACTORY DECOMPOSITION IN IDLE BASIC OPEN HEARTH FURNACES 67-03 M04-65515
GUNNING OPEN HEARTH FURNACES 67-03 M04-65521
REFRACTORY SPRAYING OF OPEN HEARTH STEEL LADLES 67-03 M04-65523

REFRACTORIES, COATINGS
GLASS-COATED STEEL ADDS EDGE COAT 67-03 M12-65012
METALLIZATION. PT. 9 67-10 M12-79891

REFRACTORIES, COMPACTING
THE INFLUENCE OF FREQUENCY AND ACCELERATION DURING VIBRATIONAL COMPACTION ON THE DENSITY OF COMPACTED CERAMIC OXIDES 67-07 M05-73207

REFRACTORIES, CORROSION
EFFECT OF SPECIFIC GRAVITY OF MOLTEN SLAG ON ITS RATE OF PENETRATION INTO POROUS REFRACTORIES 67-02 M05-61733
CORROSION PHENOMENA AT REFRACTORY TAMPING MASSES IN THE COMBUSTION CHAMBERS OF HIGH-PRESSURE STEAM POWER STATIONS 67-02 M18-62027

REFRACTORIES
THE MELTING OF BRASS WITH A HIGH ZN CONTENT IN A CORELESS LOW-FREQUENCY INDUCTION FURNACE 67-03 M06-65353
CORROSION OF MAGNESITE BRICK BY FAYALITE SLAGS, WITH AND WITHOUT ADDED CALCIUM OXIDE 67-11 M04-81464
REFRACTORIES, CRUCIBLE FURNACES
CORROSION OF AL2O3-SIO2 CRUCIBLE BY MOLTEN ALUMINUM 67-04 M18-66888
REFRACTORIES, CRYSTAL GROWTH
NEW ELECTRON BEAM OPTICS FOR THE PREPARATION OF INSULATING CRYSTALS BY THE FLOATING ZONE METHOD 67-01 M14-57948
REFRACTORIES, CRYSTAL LATTICES
EFFECT OF ACTIVITY OF ZRO2 ON ITS DENSIFICATION DURING HOT PRESSING 67-12 M05-81740
REFRACTORIES, ELECTRICAL PROPERTIES
INSULATION PROPERTIES OF CHARGE MATERIALS OF GRAPHITIZING AND ANNEALING FURNACES 67-02 M15-61613
ELECTRICAL RESISTIVITY OF REFRACTORIES 67-10 M15-79431
REFRACTORIES, EROSION
PRODUCTION OF ZIRCONIA NOZZLES FOR CONTINUOUS CASTING OF STEEL 67-03 M05-65302
DUPLEX REFRACTORY SNORKLE TUBE ADVANCES PRESSURE POURING PROCESS 67-07 M05-73843
REFRACTORIES, FURNACE LINERS
REFRACTORY PROGRESS IN THE ALUMINIUM INDUSTRY 67-07 M15-74285
TESTING DYNAS BRICK WITH A TITANIUM-CLAY ADDITIVE IN THE BOTTOM STRUCTURE OF AN OPENHEARTH FURNACE 67-08 M05-75596
REFRACTORIES, GRAIN GROWTH
EFFECT OF GRAIN FORM ON THE PROPERTIES OF TAR-DOLOMITE PIECES 67-08 M14-75598
REFRACTORIES, INSULATION
INSULATING RISER SLEEVES OFFER COST SAVINGS 67-07 M06-72823
REFRACTORIES, INSULATORS
REFRACTORY MATERIALS IN ATOMIC PILES 67-08 M20-75798
REFRACTORIES, LIFE
REFRACTORIES FOR LINING MAGNETIC ORE ROASTING KILNS 67-06 M05-71871
CONVERTERS AND LANCES AT THE BAGNOLI WORKS --OF ITALSIDER-- 67-06 M05-71949
REFRACTORIES, LINERS
REFRACTORIES FOR BASIC OXYGEN FURNACES 67-01 M04-58454
PROGRESS IN OPEN HEARTH STEELMAKING 67-01 M04-58501
WHAT CAUSES REFRACTORY WEAR 67-01 M17-57435
METHOD FOR MAKING THE HEARTH OPERATING LAYER 67-02 M04-60092
STUDIES ON REFRACTORIES OF OPENHEARTH FURNACES IN OXYGEN STEEL MAKING AND THEIR TRANSITION 67-02 M04-60166
REFRACTORY MASS FOR LINING TUYERE COMPONENTS 67-08 M05-74889
REFRACTORIES, MACHINING
SYNTHETIC DIAMONDS AND THEIR APPLICATIONS IN MODERN SOVIET INDUSTRY 67-03 M08-65161
REFRACTORIES, MATERIALS
TRENDS IN IRON AND STEEL PLANT REFRACTORIES 67-07 M05-73719
REFRACTORIES, MECHANICAL PROPERTIES
TRY SILICON NITRIDE 67-01 M05-57217
MODULUS OF RUPTURE OF ALUMINA-SILICA REFRACTORIES AT ELEVATED TEMPERATURES 67-03 M05-65763
DEVELOPMENTS WITH HIGH-PURITY PERICLASE 67-04 M17-67737
FACTORS AFFECTING THE PERFORMANCE OF OXYGEN STEELMAKING LININGS 67-05 M04-68643
MECHANICAL PROPERTIES OF MATERIALS BASED ON SIC AND SI3N4 67-06 M09-70775
HIGH-TEMPERATURE CREEP OF AL2O3 CERAMICS 67-06 M17-70565
PRINCIPLES OF THE PRODUCTION OF REFRACTORY LIGHT-WEIGHT BRICKS BY THE FOAMING METHOD 67-07 M04-73206
THE SIGNIFICANCE OF THE ELASTICITY MODULUS, COMPRESSIVE STRENGTH AND THE EXPANSION OF REFRACTORY MATERIALS IN FURNACE AND OVEN DESIGN. PT. 1 67-08 M17-74560
STUDY OF THE MECHANISM OF STRAIN IN MGO COMPACTS DURING ROASTING 67-08 M17-75597
DEVELOPMENT OF MGO HEAT EXCHANGE MEDIA 67-09 M05-77962
DENSIFICATION AND WEAR RESISTANCE OF CERAMIC SYSTEMS. PT. 1. TITANIUM DIBORIDE 67-09 M15-77963
DEVELOPMENTS AND TRENDS IN REFRACTORIES TECHNOLOGY 67-11 M04-80792
REFRACTORY GUNNING IN BLAST FURNACES 67-11 M04-81134
STUDY OF BLAST FURNACE STACK REFRACTORY LIFE WITH THE AID OF ISOTOPES 67-11 M04-81303
HEARTH AND WALL LIFE IN AN ARC FURNACE WORKING OFF A LONG RUN OF STAINLESS STEEL HEATS 67-11 M04-81608
THE EFFECT OF METALLURGICAL FACTORS ON THE WEAR OF REFRACTORY LININGS IN OXYGEN TOP-BLOWING CONVERTERS 67-12 M04-82663
INVESTIGATION OF WEAR PHENOMENA OF BLAST FURNACE LININGS 67-12 M04-82887
CHANGES IN BASIC REFRACTORY BRICK IN OXYGEN CONVERTERS 67-12 M04-83006
THE EVALUATION OF ROOF BRICKS FOR OPENHEARTH FURNACES 67-12 M04-83007
EXTENDING THE LIFE OF 100-TON CONVERTER LININGS 67-12 M04-83466
REFRACTORIES, MILLING /MACHINING/
REFRACTORY MILLING WITH DIAMONDS 67-06 M05-70705
REFRACTORIES, NONDESTRUCTIVE TESTING
NONDESTRUCTIVE DETERMINATION OF MECHANICAL PROPERTIES OF REFRACTORY MATERIALS 67-08 M19-75522
REFRACTORIES, NOZZLES
SECTIONAL NOZZLE-BATCHERS FOR CONTINUOUS CASTING OF ELECTRICAL STEEL 67-08 M04-75594
POURING PIT REFRACTORIES--NOZZLES 67-10 M04-79565
REFRACTORIES, PERMEABILITY
PROCEDURE FOR DETERMINING THE RATE OF PENETRATION OF MELTS INTO MATERIALS OF CAPILLARY POROSITY 67-02 M15-62124
REFRACTORIES, PHASE TRANSFORMATIONS
HIGH-REFRACTORY MATERIAL WITH A MAGNESIAL SPINEL 67-01 M05-57199
PHASE TRANSFORMATIONS IN MIXTURES OF MGAL2O4-MGO, AL2O3 AND SIO2 67-02 M14-62292
REFRACTORIES, PHYSICAL PROPERTIES
ANISOTROPY OF HEAT CONDUCTIVITY OF REFRACTORY PIECES 67-03 M15-65908
ELECTROLYTIC SEALING OF INDUSTRIAL REFRACTORIES 67-05 M05-69512
INFLUENCE OF STABILIZING ADDITIONS ON THERMAL STABILITY OF ZIRCONIA PARTS 67-06 M15-70566
ROASTING AND RECRYSTALLIZATION OF MAGNESIUM OXIDE 67-07 M05-72616
ROASTING BORON NITRIDE DURING HOT PRESSING AND ITS PROPERTIES AT HIGH TEMPERATURE 67-07 M05-72617
ALUMINA-BONDED REFRACTORIES 67-09 M05-76454
SILICON OXYNITRIDE REFRACTORIES 67-09 M05-77966
APPLICATION OF MERCURY POROSIMETRY TO REFRACTORY MATERIALS 67-09 M15-77964
DENSITY DETERMINATION OF REFRACTORIES BY MEASUREMENT OF GAMMA RADIATION ABSORPTION 67-11 M15-80906
DENSITY DETERMINATION OF REFRACTORIES BY MEASUREMENT OF GAMMA-RADIATION ABSORPTION 67-11 M15-81556
CERAMICS FOR ULTRAHIGH TEMPERATURES 67-12 M05-82467
REFRACTORIES, POWDER METALLURGY
PREPARATION OF ZIRCONIUM DIBORIDE 67-02 M03-61625
SOME PROBLEMS IN PRODUCING PARTS FROM SILICON NITRIDE 67-02 M09-59781
SOME CHARACTERISTICS IN BEHAVIOR OF PURE OXIDES DURING PRESSING 67-02 M09-60596
PREPARATION OF HIGH-POROSITY MATERIALS FROM REFRACTORY COMPOUNDS 67-02 M09-62189
PREPARATION OF HIGH-POROSITY MATERIALS FROM REFRACTORY COMPOUNDS 67-08 M09-75965
PRODUCING INTRICATE SHAPES BY HOT PRESSING ALUMINUM OXIDE 67-12 M09-82640
REFRACTORIES, REACTIONS /CHEMICAL/
INTERACTION OF ALUMINUM WITH MAGNESITE LINING OF FURNACE 67-01 M05-57198
GRAIN-BOUNDARY REACTIONS IN MAGNESIACHROME REFRACTORIES--APPLICATION OF THE ELECTRON PROBE. PT. 1 67-02 M13-61086
STUDY OF HIGH-TEMPERATURE INTERACTION IN THE

TIC-ZRO2 SYSTEM 67-03 M15-65912
REFRACTORY CORES FOR ANNULAR PELLET NUCLEAR FUEL ELEMENTS 67-03 M16-65622
REACTION BETWEEN LIQUID STEEL AND REFRACTORIES UNDER VACUUM. PT. 2. STUDY OF REFRACTORIES USED IN STEELMAKING 67-06 M04-72392
REFRACTORIES IN HYDROGEN ATMOSPHERES 67-07 M14-74012
REFRACTORY-MELT REACTIONS IN VACUUM INDUCTION MELTING OF NICKEL-BASE ALLOYS 67-10 M14-79430
ON THE REACTION OF THE COMPONENTS OF BASIC REFRACTORIES WITH COPPER OXIDES DURING SERVICE IN A COPPER REFINING FURNACE 67-11 M03-81633

REFRACTORIES, SERVICE TIME
THE LIFE OF CARBON BLOCKS IN THE HEARTH OF HIGH-CAPACITY BLAST FURNACES 67-01 M04-57251
USE OF OXYGEN FOR BLOWING OF THE BATH IN 600-TON OPENHEARTH FURNACES 67-01 M04-58094
THE LIFE OF MAGNESITE-CHROMITE REFRACTORIES IN COPPER REFINING FURNACES 67-01 M06-57197
REFRACTORY CONCRETE FOR THE ROOF OF A MUFFLE FURNACE 67-02 M04-59777
GRAPHITE-CONTAINING TUYERES FOR BESSEMER CONVERTERS 67-02 M04-59779
EXPERIMENTAL ADOPTION OF RAMMED LININGS FROM SILICEOUS COMPOUNDS FOR STEEL-POURING LADLES 67-02 M05-58893
INVESTIGATION OF MAGNESITE-CHROMITE BRICK AFTER SERVICE IN THE ROOF OF A TUNNEL FURNACE 67-02 M05-62291
EFFECT OF ATMOSPHERE ON INTERACTION OF CONVERTER SLAGS WITH TAR-MAGNESITE REFRACTORY 67-03 M04-65909
LINING PERFORMANCE AND RELINING TECHNIQUES IN A 100 TON B. O. S. FURNACE 67-04 M04-66112
WORK OF AN OPENHEARTH FURNACE WITH INTENSIFIED OXYGEN FEED TO THE FLAME 67-04 M04-66845
LIFE OF RESIN-BONDED DOLOMITE REFRACTORIES IN CONVERTER LININGS 67-06 M05-70207
OPERATION OF BLAST FURNACES WITH A THIN-WALLED SHAFT 67-07 M04-73772
OPERATION OF BLAST FURNACES WITH A THIN-WALLED STACK 67-09 M04-76535

REFRACTORIES, SINTERING
STUDY OF SINTERING AND RECRYSTALLIZATION OF MAGNESIAL SPINEL AND ITS MIXTURE WITH ALUMINA 67-02 M05-62293
SILICOCARBIDE REFRACTORIES ON COMPLEX BASE OF SI2ON, SIC AND SI3N4 67-10 M05-79353

REFRACTORIES, STEEL MAKING
RECENT ADVANCES IN STEEL WORKS REFRACTORIES 67-01 M05-58645
OPERATION OF THE BASIC OXYGEN SHOP AT GREAT LAKES STEEL DIVISION, NATIONAL STEEL CORPORATION 67-03 M04-65517
REFRACTORY PROBLEMS AND TECHNIQUES ON A 230-TON OXYGEN FURNACE 67-03 M04-65531
REFRACTORY EXPERIENCE IN OPEN HEARTH STEELMAKING IN AUSTRALIA 67-03 M04-65534
STOVE REFRACTORIES. IS THEIR IMPROVED PERFORMANCE WORTH THE EXTRA COST 67-11 M04-80788
HOT METAL CAR REFRACTORIES. THE TAB FOR THE TAXI IS GOING HIGHER 67-11 M04-80789
REFRACTORY RECOMMENDATIONS FOR BLAST FURNACE STOVES 67-12 M04-82651
IMPROVING LINING LIFE AS A WAY OF INCREASING FURNACE PRODUCTIVITY 67-12 M14-81731

REFRACTORIES, SYNTHESIS
PREPARATION OF REFRACTORIES FROM CARBORUNDUM WITH NITRIDE BINDER AND FROM SI3N4-SIC MATERIALS 67-02 M05-62110

REFRACTORIES, THERMAL PROPERTIES
MAGNESITE-CHROMITE ROOF PIECES OF NTMK REFRACTORY PRODUCTION 67-03 M05-65910
HIGH-REFRACTORY MATERIALS BASED ON ZRO2, STABILIZED BY OXIDES OF RARE EARTH METALS 67-03 M05-65913
HIGH-DENSITY REFRACTORIES FOR BLAST FURNACE MADE OF KAOLINE FROM THE NOVOSELITSK DEPOSITS 67-04 M05-66584
A STUDY OF CONTINUOUS CASTING OF STEEL. PT. 1. EROSION RESISTANCE TESTS ON REFRACTORIES FOR TUNDISH NOZZLES USED IN CONTINUOUS CASTING OF STEEL 67-05 M04-69072
A COMPARATIVE STUDY OF THE A. S. T. M. THERMAL CONDUCTIVITY AND THE BLAKELEY-COBB APPARATUS AS INSTRUMENTS FOR ROUTINE MEASUREMENTS OF THERMAL CONDUCTIVITY OF REFRACTORIES 67-05 M15-68476
RUNNER BRICK WITH HIGH THERMAL RESISTANCE 67-07 M05-72614
THERMAL CONDUCTIVITY OF CHROMITE-CONTAINING REFRACTORIES AND TEMPERATURE PATTERNS IN ROOF LININGS 67-07 M15-73474
STABILITY OF COMMERCIAL SILICON NITRIDE WHEN HEATED IN AIR AND IN CARBON MONOXIDE 67-10 M05-79579
REFRACTORIES FOR CONTINUOUS CASTING OF LOW-CARBON RIMMED STEEL 67-12 M04-82637
PERICLASE-SPINEL BRICK WITH HIGH THERMAL STRENGTH 67-12 M04-82638
DETERMINING THE DURABILITY OF REFRACTORIES IN A SLAG STREAM 67-12 M05-82641

REFRACTORIES, THERMOELECTRICITY
THERMAL CURRENTS AND THERMO-EMF IN INDUSTRIAL REFRACTORIES AT ELEVATED TEMPERATURES 67-06 M05-71400

REFRACTORIES, VACUUM METALLURGY
STABILITY OF COMMERCIAL REFRACTORIES IN VACUUM 67-09 M04-77967

REFRACTORIES, VAPORIZING
EVAPORATION OF POROUS OXIDE CERAMIC AT HIGH TEMPERATURES 67-03 M05-65304

REFRACTORIES, WEAR
INVESTIGATION OF THE FAILURE OF THE BLAST FURNACE HEARTH BOTTOM. PT. 2 67-02 M04-61206
THE MECHANISM OF FAILURE OF THE HEARTH BOTTOM IN A BLAST FURNACE 67-03 M04-65957
INCREASING THE LIFE OF REFRACTORIES IN ROTARY TUBULAR FURNACES 67-08 M05-76237
THE MECHANISM OF REFRACTORY WEAR IN OXYGEN CONVERTERS 67-09 M04-77624
DISINTEGRATION OF DOLOMITE REFRACTORIES WITH A RESIN BINDER IN STEEL-SMELTING UNITS 67-09 M05-76949
HIGH-STABILITY REFRACTORIES FOR MAGNESIUM CHLORINATORS AND ELECTROLYTIC CELLS 67-10 M05-79352
MECHANISM OF REFRACTORY WEAR IN OXYGEN CONVERTERS 67-11 M04-80912

REFRACTORINESS
SEE THERMAL RESISTANCE

REFRACTORY COMPOUNDS, ABRASIVES
MEASUREMENT OF THE ABRASIVE CAPACITY OF POWDERS OF CARBIDES AND BORIDES OF REFRACTORY METALS 67-02 M09-61788

REFRACTORY COMPOUNDS, COATINGS
WIDER PROPERTIES WITH COMPOSITE COATINGS 67-05 M12-69569
METAL FASTENERS IN ULTRA-HIGH TEMPERATURES 67-05 M20-69556

REFRACTORY COMPOUNDS, CORROSION
EXPERIMENTS ON GAS PROTECTION OF POROUS REFRACTORY MATERIALS AGAINST OXIDATION AND EROSION IN PLASMA FLOWS 67-08 M09-74315

REFRACTORY COMPOUNDS, CRYSTAL LATTICES
FIRM SEEKS GREATER KNOWLEDGE OF CARBIDES 67-04 M14-66337
STRAIN IN METAL CARBIDES 67-12 M17-81825

REFRACTORY COMPOUNDS, MECHANICAL PROPERTIES
YOUNGS MODULUS OF CARBIDES OF SOME TRANSITION METALS 67-02 M17-61712
STRENGTH CHARACTERISTICS OF POROUS MATERIALS OF REFRACTORY COMPOUNDS 67-04 M17-67343
ON THE WAYS OF INCREASING THE STRENGTH OF HIGH-MELTING-POINT COMPOUNDS 67-04 M17-67344
YOUNGS MODULI OF THE CARBIDES OF SOME TRANSITION METALS 67-08 M17-75857

REFRACTORY COMPOUNDS, PHYSICAL PROPERTIES
MICROMETHOD FOR DETERMINING THE FUSION POINTS OF REFRACTORY COMPOUNDS 67-05 M15-68705
A MICROMETHOD FOR DETERMINING THE MELTING POINTS OF REFRACTORY COMPOUNDS 67-12 M15-82681
OBTAINING AND INVESTIGATING CERTAIN PHYSICAL PROPERTIES OF HFC-MOC AND TAC-MOC SOLID SOLUTIONS 67-12 M15-83359

REFRACTORY COMPOUNDS, POWDER METALLURGY
STUDY OF THE DENSIFICATION OF REFRACTORY COMPOUND POWDERS BY THE ELECTRICAL CONDUCTIVITY METHOD 67-04 M09-67333
RELATIONSHIP BETWEEN MICROHARDNESS AND MICROBRITTLENESS OF REFRACTORY COMPOUNDS AND THEIR ELECTRON STRUCTURE 67-07 M09-72513
CORRELATION OF MICROHARDNESS AND MICROBRITTLENESS OF REFRACTORY COMPOUNDS WITH THEIR ELECTRIC STRUCTURE 67-11 M09-80899

REFRACTORY COMPOUNDS, POWDER METALLURGY PARTS
GAS PERMEABILITY OF POROUS MATERIALS FROM

REFRACTORY COMPOUNDS. PT. 3 67-02 M09-61785
REFRACTORY COMPOUNDS, RADIATION EFFECTS
INFLUENCE OF NUCLEAR RADIATION ON PROPERTIES OF REFRACTORY COMPOUNDS 67-05 M16-69004
REFRACTORY COMPOUNDS, REACTIONS /CHEMICAL/
SOLID-PHASE SURFACE REACTIONS BETWEEN BORIDES, REFRACTORY METALS AND ZRO2 67-01 M14-58295
REFRACTORY COMPOUNDS, SINGLE CRYSTALS
HIGH TEMPERATURE VERNEUIL CRYSTAL GROWTH BY ARC MELTING 67-12 M14-82669
REFRACTORY COMPOUNDS, SOLUBILITY
SOLUBILITY OF THE DISILICIDES OF THE TRANSITION METALS IN MOSI2 AND WSI2 67-06 M13-70776
REFRACTORY COMPOUNDS, THERMAL PROPERTIES
THERMAL CONDUCTIVITY OF THE BORIDES OF TRANSITION METALS OF THE 4-6 GROUPS IN THE PERIODIC TABLE 67-01 M15-58078
STABILITY OF REFRACTORY COMPOUNDS IN FUSED BASALT 67-06 M09-71468
CALCULATION OF THE REDUCED THERMODYNAMIC POTENTIALS OF SOME CARBIDES AND NITRIDES 67-12 M09-82787
STABILITY OF REFRACTORY COMPOUNDS IN FUSED BASALT 67-12 M09-82789
REFRACTORY COMPOUNDS, THERMODYNAMICS
THERMODYNAMICS OF CERTAIN REFRACTORY COMPOUNDS 67-02 M15-59601
THERMODYNAMICS OF CERTAIN REFRACTORY COMPOUNDS. V 2 67-02 M15-60001
CALCULATION OF THERMODYNAMIC PROPERTIES OF SOME CARBIDES AND NITRIDES 67-06 M09-71466
CALCULATION OF HEAT CAPACITY OF REFRACTORY COMPOUNDS 67-06 M15-72330
REFRACTORY COMPOUNDS, TRANSPORT PROPERTIES
HEAT CONDUCTIVITY OF SILICON CARBIDE AT HIGH TEMPERATURES 67-06 M15-71465
REFRACTORY CONCRETES
PROBLEMS OF THE USERS OF REFRACTORIES FOR REHEATING FURNACES 67-02 M07-62038
EVOLUTION OF REFRACTORY MATERIALS FOR REHEATING FURNACES 67-02 M07-62039
REFRACTORY MATERIALS
SEE REFRACTORIES
REFRACTORY METAL ALLOYS, MECHANICAL PROPERTIES
THE MECHANICAL BEHAVIOR OF REFRACTORY-METAL ALLOYS 67-04 M17-66196
INTERNAL FRICTION AND SHEAR MODULUS OF NICKEL-CHROMIUM-BASE HEAT RESISTANT ALLOYS 67-04 M17-66826
REFRACTORY METALS
SEE ALSO MOLYBDENUM
NIOBIUM
RHENIUM
TANTALUM
TUNGSTEN
NEW DEVELOPMENTS IN THE FIELD OF REFRACTORY METALS 67-10 M01-79070
REFRACTORY METALS, AEROSPACE
REFRACTORY METALS IN AEROSPACE PROPULSION 67-04 M20-66117
REFRACTORY METALS, ALLOYING ADDITIVE
THE PRINCIPLE OF HEAT RESISTANT ALLOYING 67-12 M17-81832
REFRACTORY METALS, ATOMIC PROPERTIES
STABILITY OF ELECTRONIC CONFIGURATIONS 67-07 M16-72509
CALCULATING THE SURFACE ENERGY OF METALS WITH A BODY-CENTERED LATTICE 67-08 M15-74625
STABILITY OF ELECTRON CONFIGURATIONS 67-11 M16-80895
REFRACTORY METALS, BINARY SYSTEMS
DETERMINING THE STRENGTH OF THE INTERATOMIC BOND BY THE CHARACTERISTIC TEMPERATURE 67-10 M17-79231
REFRACTORY METALS, BONDING
DIFFUSION-BONDING OF FORMABLE STRUCTURAL PANELS BY COMPOSITE ROLLING 67-02 M11-61841
REFRACTORY METALS, BRAZING
BRAZING BREAKTHROUGH JOINS REFRACTORY HONEYCOMB 67-06 M11-70569
METALS JOINING 67-12 M11-82272
REFRACTORY METALS, CHEMICAL ANALYSIS
GENERAL METHOD FOR ANALYZING REFRACTORY-METAL ALLOYS USING THE VACUUM-CUP ELECTRODE 67-03 M19-65022
THE PROMISE OF FIELD-ION MICROSCOPY 67-12 M13-82273
ON THE DETERMINATION OF OXYGEN, NITROGEN AND HYDROGEN IN HIGH-MELTING POINT METALS. PT. 1. LITERATURE REVIEW 67-12 M19-81823
REFRACTORY METALS, COATING
COATING, MANUFACTURING SEQUENCE AND COMPONENT DESIGN INTEGRATION 67-01 M12-57987
COATINGS OF HIGH-TEMPERATURE MATERIALS 67-01 M12-58001
COATINGS OF HIGH-TEMPERATURE MATERIALS. PT. 1 67-01 M12-58002
COATINGS ON REFRACTORY METALS. PT. 3 67-01 M12-58004
OXIDATION-RESISTANT COATINGS FOR REFRACTORY METALS 67-02 M12-61902
REFRACTORY COATINGS FOR AEROSPACE APPLICATIONS 67-04 M12-66126
CONTACT DIFFUSION INTERACTION BETWEEN MATERIALS AND CLADDINGS 67-04 M12-67863
DIELECTRIC BREAKDOWN OF ANODIC OXIDE FILMS ON VALVE METALS 67-05 M18-69843
OXIDATION-RESISTANT COATINGS FOR REFRACTORY METALS 67-07 M12-74252
OXIDATION-RESISTANT COATINGS FOR REFRACTORY METALS 67-10 M12-79199
ELECTRODEPOSITION OF THICK COATINGS OF PLATINUM AND PALLADIUM ON REFRACTORY METALS FROM AQUEOUS ELECTROLYTES 67-11 M12-80396
PROTECTIVE COATINGS FOR REFRACTORY METALS 67-12 M12-82927
REFRACTORY METALS, COATINGS
THE PRODUCTION AND TESTING OF PLASMA SPRAY COATINGS 67-10 M12-79381
ELECTRON BEAM INSTALLATION FOR VACUUM EVAPORATION OF METALLIC AND NONMETALLIC MATERIALS 67-12 M12-81893
REFRACTORY METALS, CORROSION
PROTECTING REFRACTORY METALS AGAINST OXIDATION 67-10 M18-79374
REFRACTORY METALS, CRYSTAL GROWTH
PRODUCTION AND PROPERTIES OF MONOCRYSTALS OF HIGH-MELTING METALS AND ALLOYS 67-08 M14-75024
REFRACTORY METALS, CRYSTAL LATTICES
THE TWINNING DISLOCATION IN BCC METALS 67-09 M13-77932
THE ROLE OF THE DEFECT INTERACTION ENERGY ON THE STABILITY OF INTERSTITIAL PHASES 67-11 M16-81120
FACE-CENTERED CUBIC MODIFICATION IN SPUTTERED FILMS OF TANTALUM, MOLYBDENUM, TUNGSTEN, RHENIUM, HAFNIUM AND ZIRCONIUM 67-12 M13-82543
REFRACTORY METALS, DEPOSITION
APPARATUS FOR METALLIZING AND ELECTRON BEAM EVAPORATION 67-06 M12-72313
REFRACTORY METALS, DIFFUSION
THE DIFFUSION ACTIVATION ENERGY OF INTERSTITIAL ELEMENTS IN TRANSITION METALS WITH A BODY-CENTERED LATTICE 67-04 M14-67916
RECIPROCAL DIFFUSION OF NIOBIUM AND METALS OF THE IVA, VA, VIA GROUPS 67-10 M14-79237
REFRACTORY METALS, EXTRACTION
THE USE OF MOLTEN PYRIDINIUM CHLORIDE IN THE TREATMENT OF ORES OF NIOBIUM --COLUMBIUM-- AND OTHER REFRACTORY METALS 67-09 M02-77728
THE EXTRACTION OF SPECIAL METALS 67-12 M03-83284
REFRACTORY METALS, FIBER METALLURGY
FILAMENT-REINFORCED REFRACTORY METALS 67-07 M09-73360
REFRACTORY METALS, HEAT TREATMENT
A PRACTICAL VIEW OF DEFORMATION AND RECRYSTALLIZATION OF METALS 67-05 M14-69550
HEAT TREATMENT OF SOME NONFERROUS, REFRACTORY, AND RARE METALS AND ALLOYS IN INERT ATMOSPHERES 67-08 M10-75098
REFRACTORY METALS, JOINING
METALS JOINING 67-06 M11-71821
REFRACTORY METALS, MACHINING
THE MACHINE TOOL, AND SPEEDS AND FEEDS 67-05 M08-68508
CARBIDE MACHINING OF SUPERALLOYS 67-06 M08-71484
REFRACTORY METALS, MECHANICAL PROPERTIES
THE ODDS AGAINST FRACTURE OR PREDICTING STRENGTH OF BRITTLE STRUCTURES 67-02 M17-60589
THE THERMAL FATIGUE TESTING OF HEAT-RESISTING SHEET MATERIALS 67-02 M17-62114
PHYSICAL-CHEMICAL THEORY OF CREEP RESISTANCE OF REFRACTORY METALS AND THEIR ALLOYS 67-04 M13-66442
REFRACTORY METALS --CB, TA, MO, W-- 67-08 M01-75390

PROPERTIES AND APPLICATIONS OF DISPERSION-STRENGTHENED METALS 67-09 M10-76723
SELECTED METALLURGICAL ASPECTS OF CLADDING MATERIALS 67-11 M17-80473
REFRACTORY METALS, MECHANICAL PROPERTIES
PHYSICOCHEMICAL THEORY OF THE HEAT RESISTANCE OF
PHYSICOCHEMICAL THEORY OF THE HEAT RESISTANCE OF REFRACTORY METALS AND ALLOYS
REFRACTORY METALS AND ALLOYS 67-11 M17-80983
A RAPID METHOD OF TESTING THE HOT TENSILE STRENGTH OF REFRACTORY ALLOYS 67-11 M17-81056
THE FLOW STRESS OF BODY-CENTERED CUBIC METALS INHERENT LATTICE HARDENING OR SOLUTION HARDENING 67-11 M17-81596
REFRACTORY METALS, MELTING
THE FLOATING ZONE MELTING OF REFRACTORY METALS BY ELECTRON BEAM BOMBARDMENT. PT. 6. THE ELECTRON BEAM MELTING OF REFRACTORY METALS 67-05 M03-69855
THE MULTIPLE-CHAMBER ELECTRON BEAM FURNACES OF THE --EAST GERMAN-- HENNINGSDORF WORKS AND THEIR APPLICATIONS 67-07 M03-74273
MELTING REFRACTORY METALS IN THE HARDENED-SLAG LINED CRUCIBLE OF AN ELECTRON BEAM INSTALLATION 67-09 M03-77125
REFRACTORY METALS, METAL FIBERS
CERAMIC-METAL FIBER COMPOSITE SYSTEMS 67-03 M14-65349
REFRACTORY METALS, METAL POWDERS
DEVELOPING A PROCESS OF PLASMA PRODUCTION OF SPHERICAL POWDERS FROM REFRACTORY METALS 67-03 M09-65798
REFRACTORY METALS, METAL WORKING
EXPLOSIVE FABRICATION AT BATTELLE-COLUMBUS 67-05 M01-68984
REFRACTORY METALS, NUCLEAR REACTORS
MATERIALS TECHNOLOGY PRESENTLY AVAILABLE FOR ADVANCED RANKINE SYSTEMS 67-04 M01-66385
REFRACTORY METALS, OPTICAL PROPERTIES
OPTICAL CONSTANTS OF INCANDESCENT REFRACTORY METALS 67-02 M15-60687
REFRACTORY METALS, PHASE TRANSFORMATIONS
INVESTIGATION OF PHASE TRANSFORMATIONS IN REFRACTORY METALS AND COMPOUNDS 67-01 M14-57135
REFRACTORY METALS, PHYSICAL PROPERTIES
STUDY OF ENERGY DISSIPATION DURING VIBRATIONS IN HEAT RESISTANT ALLOYS AT HIGH TEMPERATURES 67-04 M17-66856
A PIRANI FURNACE FOR THE PRECISION DETERMINATION OF THE MELTING TEMPERATURES OF REFRACTORY METALLIC SUBSTANCES 67-08 M15-74935
CONTAINMENT OF LIQUID METALS AT HIGH TEMPERATURES AND THE ESTIMATION OF THEIR PROPERTIES 67-09 M15-77504
NONFUEL REFRACTORIES 67-11 M05-80475
REFRACTORY METALS, POWDER METALLURGY
NONFERROUS METALS AND ALLOYS PRODUCED BY POWDER METALLURGY 67-01 M09-58374
CONSOLIDATING METAL POWDERS MAGNETICALLY 67-07 M09-73863
REFRACTORY METALS, REACTIONS /CHEMICAL/
SOLID-PHASE SURFACE REACTIONS BETWEEN BORIDES, REFRACTORY METALS AND ZRO2 67-01 M14-58295
THERMOCHEMISTRY OF METAL-REFRACTORY INTERACTIONS 67-04 M15-66129
THE COMPATIBILITY OF MIXED OXIDES AND CARBIDES WITH REFRACTORY METALS 67-09 M14-76350
REFRACTORY METALS, REFINING
APPARATUS FOR OBTAINING PURE METALS BY ZONAL MELTING ASSISTED BY AN ELECTRIC ARC 67-06 M03-70919
ASSEMBLY FOR ZONE REFINING OF REFRACTORY METALS 67-11 M03-81324
REFRACTORY METALS, ROLLING
A 210 MM MILL FOR ROLLING UNDER VACUUM 67-07 M07-73003
REFRACTORY METALS, SEALING
REFRACTORY CERAMIC-TO-METAL SEAL 67-06 M11-71693
REFRACTORY METALS, SPACECRAFT
AEROSPACE APPLICATIONS OF REFRACTORY METALS 67-06 M20-72074
REFRACTORY METALS, THERMAL PROPERTIES
PROSPECTS OF RAISING THE HIGH-TEMPERATURE STRENGTH OF MATERIALS ON THE BASIS OF REFRACTORY METALS 67-02 M17-62179
PROSPECTS OF RAISING THE HEAT RESISTANCE OF MATERIALS BASED ON REFRACTORY METALS 67-08 M17-75955
THERMODYNAMICS OF THE INTERACTION OF ZRO2, MGO AND CAO WITH REFRACTORY METALS 67-12 M15-81741
REFRACTORY METALS, THERMODYNAMICS
THERMODYNAMICS OF CERTAIN REFRACTORY COMPOUNDS 67-02 M15-59601
THERMODYNAMICS OF CERTAIN REFRACTORY COMPOUNDS. V 2 67-02 M15-60001
REFRACTORY METALS, THIN FILMS
CHEMICAL EXTRACTION FROM THE GAS PHASE--THE METHOD AND AN APPLICATION 67-10 M12-79486
REFRACTORY METALS, WELDING
THE WELDING OF REFRACTORY-METAL COMPONENTS FOR LIQUID METAL SERVICE 67-01 M11-58774
THE COMPARATIVE WELDABILITY OF REFRACTORY METAL ALLOYS 67-04 M11-67033
MAGNETIC FORCE WELDING TAMES EXOTICS 67-04 M11-67632
ELECTRON BEAM WELDING AS A PRODUCTION TOOL 67-08 M11-75559
LASER WELDING MOVES UP A NOTCH 67-08 M11-76063
WELDING CERAMIC MATERIALS TO METALS 67-10 M11-78404
REFRIGERATING MACHINERY
SEE REFRIGERATORS
REFRIGERATORS
MANUFACTURE OF ALUMINUM EVAPORATION COILS FOR REFRIGERATORS USING HOT CLADDING TECHNIQUES 67-07 M07-73037
REGENERATIVE FURNACES
SEE METALLURGICAL FURNACES
REGENERATORS
REGENERATORS
SEE ALSO BLAST FURNACE STOVES
RECUPERATORS FOR HIGH-TEMPERATURE FURNACES 67-02 M10-59824
REGULATION
SEE CONTROL SYSTEMS
REGULATORS
SEE CURRENT REGULATORS
PRESSURE REGULATORS
REHEATING
SEE HEATING
REHEATING FURNACES
SEE HEATING FURNACES
REINFORCED CONCRETE
SEE ALSO PRESTRESSED CONCRETE
EFFECT OF FLY ASH ON STEEL REINFORCEMENT 67-03 M18-65689
MECHANICAL AND RHEOLOGICAL PROPERTIES OF HIGH-STRENGTH WIRES 67-04 M17-66376
INVESTIGATION OF THE PHYSICAL AND MECHANICAL PROPERTIES OF A-4 TYPE REINFORCING STEEL 67-05 M17-69271
MECHANICAL AND RHEOLOGICAL PROPERTIES OF HIGH-STRENGTH REINFORCING ROD 67-11 M17-80978
REINFORCED CONCRETE, CORROSION
PROTECTION WITH MORTAR COATINGS. COATING THICKNESS GOVERNS DEGREE OF PROTECTION 67-06 M18-71230
INTERPRETATION OF SURFACE POTENTIALS IN CORROSION TESTS, IN PARTICULAR, STEEL EMBEDDED IN CONCRETE 67-08 M18-74938
INTERFERENCE ON CONCRETE PIPE. TESTS CONDUCTED ON PRESTRESSED REINFORCED PIPE 67-08 M18-75745
REINFORCED CONCRETE, CORROSION ENVIRONMENTS
PREVENTION OF CORROSION FAILURES IN BRIDGE MEMBERS 67-04 M18-67074
REINFORCED CONCRETE, MATERIALS
EFFECT OF PATENTING OF ROD WIRE FROM ROLLING AND SPECIAL HEATS ON THE MECHANICAL PROPERTIES OF REINFORCING WIRE 67-05 M10-68561
INFLUENCE OF PATENTING OF ROLLED STOCK FROM ROLLING TEMPERATURE OR FOLLOWING SPECIAL REHEATING ON THE MECHANICAL PROPERTIES OF REINFORCING WIRE 67-07 M10-72472
REINFORCED PLASTICS
SPI REINFORCED PLASTICS DIVISION 67-06 M01-70614
REINFORCED PLASTICS, AEROSPACE
FABRICATION OF FILAMENT WOUND BORON REINFORCED COMPOSITES FOR RE-ENTRY VEHICLE APPLICATIONS 67-06 M09-70620
REINFORCED PLASTICS, MATERIALS
WIRE-WOUND STRUCTURES AND THE NEEDS OF INDUSTRY 67-08 M14-75861
REINFORCED PLASTICS, MECHANICAL PROPERTIES
BEHAVIOUR OF WIRE REINFORCED PLASTICS USING THE WIRE SHEET AS REINFORCING MATERIAL 67-06 M17-70617

REINFORCED PLASTICS

YIELDING PHENOMENA IN BERYLLIUM WIRE PLASTIC COMPOSITES 67-06 M17-70618
STRUCTURAL REINFORCED PLASTIC SANDWICH FACINGS VERSUS OTHER COMPOSITE STRUCTURES 67-06 M17-70619

REINFORCEMENT
FIBER-REINFORCED METALS 67-01 M01-58569
EUTECTICS PROVIDE POSSIBLE ONE-STEP WHISKER COMPOSITES 67-03 M09-65615
STRENGTH CHARACTERISTICS OF WHISKER CRYSTALS, MICROCRYSTALS, AND MACROCRYSTALS 67-03 M14-65341
STRUCTURE AND HIGH-STRENGTH METALS 67-03 M17-65329
FIBER-REINFORCED METALS 67-04 M09-66123
BORON FILAMENT REINFORCED PLASTIC COMPOSITES FOR AIRCRAFT STRUCTURE 67-04 M09-66649
CERAMIC WHISKERS REINFORCE ALUMINUM CASTINGS 67-05 M06-69886
FIBRE REINFORCED MATERIALS 67-05 M09-68397
METAL MATRIX COMPOSITE MATERIALS 67-05 M09-68497
HIGH MODULUS FILAMENTS FOR METAL MATRIX REINFORCEMENTS 67-05 M09-68904
CONTROL OF THE MECHANICAL PROPERTIES OF NICKEL ALLOYS BY INTERNAL OXIDATION 67-05 M18-68375
SURVEY OF CERAMIC FIBERS AND FIBROUS COMPOSITE MATERIALS 67-07 M01-73874
FIBER-REINFORCED METALS 67-07 M09-72752
SILICON CARBIDE FILAMENT REINFORCED EPOXY RESIN COMPOSITES 67-07 M09-73337
REVIEW OF CURRENT DEVELOPMENTS IN NEW REFRACTORY FIBERS AND THEIR UTILIZATION AS HIGH TEMPERATURE REINFORCEMENTS 67-07 M09-73339
RESEARCH ON BORON FILAMENTS AND BORON REINFORCED COMPOSITES 67-07 M09-73340
METALLIC FILAMENTS AND THEIR COMPOSITES 67-07 M09-73341
USE OF BORON NITRIDE FIBERS IN COMPOSITES 67-07 M09-73342
WHISKER COMPOSITE TECHNOLOGY 67-07 M09-73343
SINGLE CRYSTAL FIBER REINFORCEMENTS 67-07 M09-73344
MECHANICAL BEHAVIOR OF A CONTINUOUS FILAMENT CARBON COMPOSITE 67-07 M09-73345
FILAMENT-REINFORCED REFRACTORY METALS 67-07 M09-73360
TUNGSTEN WIRE BOLSTERS POWDER 67-07 M09-74153
METALLIC-FIBER REINFORCED HEAT RESISTANT CERAMIC MATERIALS 67-08 M09-74357
FIBER REINFORCED COMPOSITE MATERIALS 67-08 M09-74922
THE POTENTIAL OF FIBER REINFORCEMENT 67-08 M09-76256
FIBER-STRENGTHENED MATERIALS 67-08 M14-74688
WIRE-WOUND STRUCTURES AND THE NEEDS OF INDUSTRY 67-08 M14-75861
REINFORCEMENT OF METALS AND ALLOYS BY DISPERSED PARTICLES OR FIBERS 67-09 M14-76376
REINFORCING RIBS IN COLD STAMPED PARTS 67-09 M20-76411
TENSILE PROPERTIES OF FIBER-REINFORCED METALS-- FRACTURE MECHANICS 67-10 M17-80006
PLASTIC YIELDING AND STRAIN DISTRIBUTION IN FILAMENT-REINFORCED METALS 67-11 M17-80679
MICROMECHANICS OF BORON FILAMENT REINFORCED ALUMINUM COMPOSITES 67-11 M17-80691
GRAPHICAL CALCULATION OF THE CHARGE COMPOSITION OF MULTICOMPONENT SINTERED MATERIALS 67-12 M09-82201
FABRICATION AND EVALUATION OF SAPPHIRE WHISKER REINFORCED ALUMINUM COMPOSITES 67-12 M14-81737
RECENT ADVANCES IN COMPOSITE TECHNOLOGY 67-12 M14-82045
METAL MATRIX COMPOSITE MATERIALS--THEIR REINFORCING COMPONENTS AND THEIR PROBLEMS 67-12 M14-82046
THE EFFECT OF ELEVATED-TEMPERATURE EXPOSURE ON THE MICROSTRUCTURE AND TENSILE STRENGTH OF AL3NI WHISKER-REINFORCED ALUMINUM 67-12 M17-82861
AN INVESTIGATION OF THE FATIGUE BEHAVIOR OF TUNGSTEN-REINFORCED AND STEEL- REINFORCED SILVER COMPOSITES 67-12 M17-82974

REINFORCEMENT, FIBER METALLURGY
FIBER-REINFORCED METALS 67-01 M01-58569

REINFORCEMENT, STRESS EFFECTS
THE EFFECT OF RESIDUAL STRESS AND COLD WORK ON THE LOAD DEFORMATION CURVE OF ALUMINUM MATRIX STEEL FIBER COMPOSITES 67-07 M09-73359

REINFORCING
SEE REINFORCEMENT

REINFORCING MATERIALS
SEE REINFORCEMENT

REINFORCING STEELS
LOW-ALLOY STEEL FOR STRENGTHENING PRESTRESSED REINFORCED CONCRETE STRUCTURES 67-04 M17-67124
REINFORCING STEEL 67-05 M01-69247

REINFORCING STEELS, COMPOSITE MATERIALS
STEEL WIRE REINFORCEMENT IN LAMINATED PLASTICS 67-03 M17-65499

REINFORCING STEELS, CORROSION
EFFECT OF FLY ASH ON STEEL REINFORCEMENT 67-03 M18-65689
STUDY ON THE CORROSION OF FE IN CONCRETE BY MEANS OF POLARIZATION CURVES 67-04 M18-67901
CORROSION OF REINFORCING MATERIALS IN REINFORCED PRESTRESSED CONCRETES 67-05 M18-69893
PROTECTION WITH MORTAR COATINGS. COATING THICKNESS GOVERNS DEGREE OF PROTECTION 67-06 M18-71230
THE CORROSION SUSCEPTIBILITY OF PRESTRESSED HIGH-STRENGTH STEEL WIRE 67-07 M18-73229

REINFORCING STEELS, HARDENING
SURFACE HARDENING OF REINFORCING STEEL 67-06 M10-70928

REINFORCING STEELS, HEAT TREATMENT
ELECTROTHERMAL STRENGTHENING OF REINFORCING STEEL 67-02 M10-60788
INFLUENCE OF AUSTENITIZING TEMPERATURE ON STABILITY OF SUPERCOOLED AUSTENITE IN REINFORCING STEELS 67-04 M10-66365
EFFECT OF PATENTING OF ROD WIRE FROM ROLLING AND SPECIAL HEATS ON THE MECHANICAL PROPERTIES OF REINFORCING WIRE 67-05 M10-68561
INFLUENCE OF PATENTING OF ROLLED STOCK FROM ROLLING TEMPERATURE OR FOLLOWING SPECIAL REHEATING ON THE MECHANICAL PROPERTIES OF REINFORCING WIRE 67-07 M10-72472
THERMAL HARDENING OF REINFORCING RODS AT THE MAKEEVKA METALLURGICAL WORKS 67-09 M10-76861
HEAT TREATED CLASS AT-V AND AT-VI --35GS-- STEELS 67-09 M17-76970
EFFECT OF THE AUSTENITIZATION TEMPERATURE ON THE STABILITY OF SUPERCOOLED AUSTENITE IN REINFORCING STEELS 67-11 M10-80967

REINFORCING STEELS, MECHANICAL PROPERTIES
SHORT-TIME CREEP OF REINFORCING 35GS STEEL 67-01 M17-57676
INVESTIGATION OF THE ENDURANCE OF HIGH-STRENGTH REINFORCING BARS FROM LOW-ALLOY STEEL OF THE A-IV CLASS 67-02 M17-59788
ON RELAXATION TESTING OF WIRE BY MEASURING THE FREQUENCY OF NATURAL TRANSVERSE OSCILLATIONS OF A STRESSED SPECIMEN 67-03 M17-65607
THE FATIGUE STRENGTH OF REINFORCING BARS IN CONCRETE 67-04 M17-66296
MECHANICAL AND RHEOLOGICAL PROPERTIES OF HIGH-STRENGTH WIRES 67-04 M17-66376
NATURAL AND ARTIFICIAL AGING OF CSN 10602 STEEL 67-04 M17-67435
STUDY OF THE EFFECT OF MICROALLOYING ELEMENTS ON THE INCREASE IN STRENGTH OF STRUCTURAL STEELS USED FOR PRESTRESSED CONCRETE 67-04 M17-67436
INVESTIGATION OF THE PHYSICAL AND MECHANICAL PROPERTIES OF A-4 TYPE REINFORCING STEEL 67-05 M17-69271
THE QUALITY OF GRADE 15GF LOW-ALLOY STEEL REINFORCEMENT ROD 67-06 M17-70098
RELAXATION TESTING OF WIRE BY MEASURING THE FREQUENCIES OF NATURAL TRANSVERSE OSCILLATIONS OF STRESSED SAMPLES 67-08 M17-74532
TENSION TESTS OF REINFORCING STEELS AT GRADUAL TEMPERATURE 67-08 M17-74622
RESEARCH INTO THE RHEOLOGICAL PROPERTIES OF CLASS A-IV HOT ROLLED REINFORCEMENT STEEL 67-08 M17-74896
INVESTIGATION OF THE RHEOLOGICAL PROPERTIES OF NEW TYPE REINFORCEMENT FROM STEEL OF THE A-IV CLASS 67-09 M17-76963
EFFECTS OF ALLOYING ELEMENTS ON THE PROPERTIES OF CHROMANSIL-TYPE STEELS 67-09 M17-76969
UNWELDABLE CLASS A-IV --65GS-- STEEL 67-09 M17-76971
THE UNWELDABLE CLASS A-IV --B45G2S-- BESSEMER STEEL 67-09 M17-76972
EFFECTS OF HEAT TREATMENT ON THE COLD BRITTLENESS

OF REINFORCEMENT STEEL 67-10 M17-78376
EFFECTS OF ADDING SMALL AMOUNTS OF ZIRCONIUM TO HIGH-TENSILE REINFORCEMENT STEEL ON ITS PPOPERTIES 67-10 M17-78930
EFFECTS OF THE ELECTROTHERMAL METHOD OF TENSIONING ON THE MECHANICAL PROPERTIES OF 30KHG2S STEEL 67-10 M17-78939
THE BZZS STEEL --CLASS A-3--, AND ITS SPECIAL USES 67-10 M17-79858
RESEARCH INTO THE PROPERTIES OF THE NEW CLASS A-4 GRADE 80S HOT ROLLED REINFORCEMENT STEEL 67-12 M17-83373
MECHANICAL PROPERTIES AND INTERNAL STRESSES OF FIRST ORDER OF COLD-DEFORMED CONCRETE REINFORCING STEEL BARS 67-12 M17-83396

REINFORCING STEELS, NONDESTRUCTIVE TESTING
ULTRASONIC MEASUREMENTS ON REINFORCED GRAVEL-AGGREGATE CONCRETES 67-07 M19-73073

REINFORCING STEELS, SLEEVES
WEAR RESISTANCE OF ENGINE VALVE SEATS 67-04 M06-66425

REINFORCING STEELS, WELDING
BUTT-JOINING 80S STEEL REDUCED-CARBON REINFORCEMENT CORE RODS 67-01 M11-58181
SPECIAL ASPECTS OF HEAT TREATED ANCHOR WELDS IN CONCRETE REINFORCING RODS 67-01 M11-58290
THE WELDING OF 35GS REINFORCING STEEL DURING THE CONSTRUCTION OF PITHEAD GEAR IN WINTER 67-02 M11-59643
THE SEMI-AUTOMATIC ELECTROSLAG WELDING OF BUTT JOINTS IN CONCRETE REINFORCEMENT, USING GRAPHITE MOLDS 67-02 M11-59793
BUTT RESISTANCE WELDING OF REINFORCING STRANDS WITH FILLER 67-02 M11-59857
RESISTANCE BUTT WELDING OF 80S STEEL REINFORCED RODS 67-02 M11-62161
INFLUENCE OF ALLOYING ELEMENTS ON AUSTENITE TRANSFORMATION DURING WELDING OF BAINITIC REINFORCING STEELS 67-02 M14-61970
WELDING HEAT TREATED ST. 5 AND 35GS STEELS 67-02 M17-60003
A NEW METHOD OF MECHANIZED WELDING OF REINFORCED FITTINGS 67-04 M11-66575
T-JOINT WELDING OF REINFORCED STEEL 67-04 M11-66576
FLASH WELDING OF REINFORCEMENT RODS MADE OF GRADE 80S STEEL 67-04 M11-67168
ALUMINOTHERMITE REINFORCING WELDING--A NEW HIGH-PRODUCTION RATE PROCESS 67-04 M11-67796
THE AUTOGENOUS TECHNIQUES-INCREASING APPLICATION TO REINFORCING CONCRETE CONSTRUCTION 67-05 M20-69350
A NEW MECHANISED METHOD OF WELDING REINFORCEMENT 67-07 M11-73432
T WELDS IN REINFORCEMENT STEEL 67-07 M11-73433
SPOT WELDING OF ARMATURE RODS TO SHEET 67-08 M11-74381
EFFECT OF ALLOYING ELEMENTS ON THE KINETICS OF THE TRANSFORMATION OF AUSTENITE DURING WELDING OF BAINITIC REINFORCING STEELS 67-10 M14-78827
ALUMINO-THERMIC WELDING OF REINFORCING BARS 67-11 M11-80351
SEMI-AUTOMATIC WELDING OF REINFORCING STEEL WITH POWDER WIRE 67-11 M11-80546
WELDING REINFORCING STEELS WITH AN ALLOYED WIRE WITHOUT SHIELDING 67-11 M11-80548
SPOT WELDING REINFORCING RODS TO ROLLED PLATE 67-12 M11-82254
AUTOMATIC SUBMERGED ARC WELDING OF T-CONNECTIONS OF FOUNDATION ELEMENTS 67-12 M11-83191

RELATIVE HUMIDITY
SEE HUMIDITY

RELAXATION
SEE ALSO STRESS RELAXATION
FURTHER INVESTIGATION OF RELAXATION PHENOMENA IN FE-SI-C--N-- ALLOYS 67-01 M17-57584
ELASTIC RELAXATION DUE TO DEUTERIUM INTERSTITIAL ATOM DIFFUSION IN TANTALUM 67-02 M14-59734
ACOUSTIC RELAXATIONS IN ZIRCONIUM-NIOBIUM ALLOYS 67-03 M17-65871
THERMAL RELAXATION OF MECHANICAL VIBRATIONS IN POLYCRYSTALS 67-04 M15-67824
RELAXATION EFFECT ON SEMICONDUCTOR-INSULATOR INTERFACES 67-04 M16-67061
EFFECT OF PHASE COMPOSITION ON THE RESISTANCE OF 1KH12N2VMF STEEL TO RELAXATION 67-05 M17-68367
EFFECT OF HEAT TREATMENT ON THE RELAXATION RESISTANCE OF THE KHN77TYU ALLOY 67-05 M17-68368
RELAXATION DAMPING MAXIMA IN PLASTICALLY DEFORMED MOLYBDENUM AND NIOBIUM SINGLE CRYSTALS 67-05 M17-68577
STUDY OF CREEP AND STRESS RELAXATION OF HIGH STRENGTH NONMAGNETIC MATERIALS 67-06 M17-71370
RELAXATION SPECTRUM OF DEFORMED AL PLUS 0.25 WT PER CENT FE 67-07 M13-73983
THE SPECTRUM OF THE MAGNETIC AFTER-EFFECT IN NEUTRON-IRRADIATED NI SINGLE CRYSTALS 67-07 M15-73558
RELAXATION AND RECOMBINATION TIMES OF QUASIPARTICLES IN SUPERCONDUCTING AL THIN FILMS 67-08 M16-75785

RELAXATION, ULTRASONICS
ULTRASONIC RELAXATION AT THE NEEL TEMPERATURE AND NUCLEAR ACOUSTIC RESONANCE IN MNTE 67-09 M16-76373

RELAXATION TESTS
SEE STRESS RELAXATION TESTS

RELINING
SEE LINING /PROCESS/

REMANENCE
QUANTITATIVE RELATIONS BETWEEN TEXTURE AND REMANENCE OF HEXAGONAL FERRITES 67-01 M13-58443
PRECIPITATION PROCESSES IN ALNICO 67-01 M14-58661
INVESTIGATING MATERIALS OF LOW MAGNETIC PERMEABILITY 67-02 M15-58979
THE REMANENCE BEHAVIOR OF PERMANENT MAGNETIC MATERIALS 67-02 M15-61034
INTERACTION EFFECTS OF IRON SINGLE-PHASE PARTICLES IN FROZEN SUSPENSIONS 67-02 M15-61532
ENERGY DEPENDENCE OF MAGNETIC CHANGES INDUCED BY ELECTRON IRRADIATION 67-07 M16-73566

REMANENCE, HEATING EFFECTS
MINOR LOOP LOSS PREDICTIONS IN DEVICES USING PERMANENT MAGNET MATERIALS 67-01 M15-58668
DETERMINATION OF THE OPTIMUM TEMPERING TREATMENT FOR A PERMANENT MAGNETIC ALLOY OF THE ALNICO 160 TYPE 67-09 M15-76703

REMELTING
SEE MELTING

REMOTE CONTROL
CASTING PRODUCTION BY REMOTE CONTROL 67-06 M06-71006
A REMOTE CONTROLLED APPARATUS FOR MEASURING THE INTERNAL FRICTION AND MODULUS OF ELASTICITY OF RADIOACTIVE SUBSTANCES 67-06 M17-70323
ELECTRON BEAM WELDING OF FUEL ELEMENTS FILLED WITH UO2-PUO2 67-07 M11-73467

RENN FURNACE
SEE KRUPP RENN PROCESS

REPAIRING
SEE MAINTENANCE

REPAIRS
SEE MAINTENANCE

REPLICA TECHNIQUE
SEE REPLICATING

REPLICAS
SEE ALSO CARBON REPLICAS
REPLICATION OF FINE STRUCTURE IN MARTENSITE 67-01 M13-57429
OPTICAL INVESTIGATION OF SURFACES USING REPLICA FILMS 67-01 M13-58009
ON THE DETERMINATION OF THE NUMBER, SIZE, SPACING, AND VOLUME FRACTION OF SPHERICAL SECOND-PHASE PARTICLES FROM EXTRACTION REPLICAS 67-02 M13-59422
ELECTRON-MICROSCOPIC SURFACE REPLICA AND THEIR POWER OF RESOLUTION 67-03 M13-65320
A MICRORELIEF OF THE SURFACE OF BE CONDENSATES 67-04 M13-67928
A METHOD OF MAKING OXIDE REPLICAS FOR STUDYING THE STRUCTURE OF ALLOYS OF THE ZR-NB SYSTEM 67-05 M13-69630
EMMA-2, AN INSTRUMENT FOR ELECTRON-MICROSCOPIC AND X-RAY SPECTRAL MICROANALYSIS OF THIN FILMS AND EXTRACTION REPLICAS 67-05 M13-69637
ELECTRON MICROPROBE AND ELECTRON DIFFRACTION ANALYSIS OF SURFACE REPLICA EXTRACTIONS 67-07 M13-72807

REPLICATING
METHOD FOR PRODUCING SINGLE-STEP CARBON REPLICAS FOR ELECTRON-MICROSCOPE INVESTIGATIONS OF LOW-SOLUBILITY AND POROUS POWDERS 67-05 M13-69627

REPLICATING

A METHOD FOR PRODUCING ELECTRON MICROGRAPHS OF SLIP STEPS ON CYLINDRICAL METAL SINGLE CRYSTALS 67-06 M13-70247

FILM REPRODUCES SURFACE FINISHES 67-08 M13-74455

REPRODUCTION
SEE REPLICATING

RESIDUAL STRESS
STRAIGHTENING STEEL CASTINGS BY THE LOCAL HEATING METHOD 67-01 M06-57327
CALCULATING BEAM SAG IN CONSIDERATION OF RESIDUAL WELD STRESS FACTORS 67-01 M11-58063
INTERNAL STRESSES IN TENSILE SPECIMENS OF ALUMINUM ALLOYS AND IRON AFTER PLASTIC DEFORMATION 67-01 M17-57292
RADIOGRAPHICALLY DETERMINED RESIDUAL STRESSES IN STEEL SPECIMENS SUBJECT TO PLASTIC DEFORMATION IN TENSION 67-01 M17-57384
MECHANICAL METHODS OF MEASURING RESIDUAL STRESSES IN COMPOSITE MATERIALS 67-01 M17-57664
TEMPERATURE DISTRIBUTIONS IN SOLIDIFYING INGOT AND RESIDUAL STRESSES 67-01 M17-57910
RESIDUAL STRESSES AND FATIGUE STRENGTH OF INDUCTION-HARDENED SHAFTS WITH TRANSITIONS IN CROSS SECTION 67-01 M17-57923
DETERMINATION OF CASTING STRESS BY X-RAYS. 67-01 M17-58257
EXTENSION OF THE BORING-OUT METHOD FOR THE DETERMINATION OF RESIDUAL STRESSES 67-01 M17-58559
THE EFFECT OF INTERNAL STRESSES, ESPECIALLY UPON STRESS CORROSION 67-01 M18-58296
MEASUREMENT OF THE STATE OF STRESS IN SURFACE LAYERS FOLLOWING MACHINING 67-02 M08-60827
CHANGE IN THERMOELECTROMOTIVE FORCE OF COPPER UNDER THE EFFECT OF PLASTIC TENSILE STRAIN AT VARIOUS RATES 67-02 M15-62090
STRAIN RATIO RELATIONSHIP IN PLASTIC DEFORMATION 67-02 M17-58826
CONTROL OF RESIDUAL STRESSES IN HOLLOW ALUMINUM FORGINGS 67-02 M17-59457
INFLUENCE OF RESIDUAL STRESSES ON FATIGUE STRENGTH OF 30KHGSA STEEL 67-02 M17-59773
EFFECTS DURING CONSTRUCTION OF THE WELDING RESIDUAL STRESSES ON THE COMPRESSION OF THE CONCRETE AT JOINTS IN PRECAST COLUMNS 67-02 M17-60188
RESIDUAL STRESSES IN CAST BODIES 67-02 M17-60212
BELGIUMS PART IN THE EXPERIMENTAL RESEARCH ON THE BUCKLING OF AXIALLY LOADED MILD-STEEL MEMBERS CONDUCTED BY THE CONVENTION EUROPEENNE DE LA CONSTRUCTION METALLIQUE 67-02 M17-60248
THE DETERMINATION OF RESIDUAL WELDING STRESSES IN FUSION-WELDED BUTT WELDS --SWELL METHOD-- 67-02 M17-60508
RESIDUAL MACROSTRESSES IN THE MACHINING OF POROUS SINTERED MATERIALS 67-02 M17-62109
A METHOD FOR DECREASING RESIDUAL STRESSES IN QUENCHED STEEL PARTS 67-03 M10-65204
RESIDUAL STRESSES AND WORK HARDENING DURING VIBRO-POLISHING 67-03 M12-65205
STRESS IN FILMS OF SILICON MONOXIDE 67-03 M12-65751
DETERMINING RESIDUAL STRESSES IN COATINGS BUILT UP ON CYLINDERS AND DISKS 67-03 M17-65101
CHARACTERISTICS OF THE PROCESS OF UPSETTING UNDER PULSATING LOADS 67-04 M07-67043
WARPAGE OF THIN WALLED PARTS DURING RELAXATION OF RESIDUAL STRESSES 67-04 M10-66358
RESIDUAL STRESSES IN ALUMINUM ALLOY WELDED JOINTS 67-04 M11-66838
THE INFLUENCE OF RESIDUAL STRESSES ON THE FUNCTIONAL STABILITY OF WELDED STRUCTURES 67-04 M11-67071
VARIABLE STRESS CYCLE FATIGUE OF LARGE BUTT-WELDED SPECIMENS 67-04 M11-67631
INTERNAL STRESS FIELDS IN DEFORMED SILICON IRON CRYSTALS 67-04 M15-67047
EFFECT OF INTERNAL WELDING STRESSES ON THE TENDENCY TO CRACKING IN WELDED JOINTS ON MILD STEEL 67-04 M17-66008
RESIDUAL STRAINS AND DISPLACEMENTS WITHIN THE PLASTIC ZONE AHEAD OF A CRACK 67-04 M17-66291
STRESS IN A MILD STEEL SURFACE IMPREGNATED WITH NITROGEN 67-04 M17-66945
X-RAY DIFFRACTION STUDY OF THE RESIDUAL-STRESS DISTRIBUTION IN MANUFACTURED ARTICLES 67-04 M17-68075
THE EFFECT OF THE UNDERLYING METAL ON THE INTERNAL STRESS AND FORMATION OF MICROCRACKS IN ELECTRODEPOSITED CHROMIUM 67-05 M12-68822
INFLUENCE OF ORGANIC ADDITIONS TO ELECTROLYTE ON INTERNAL STRESSES OF ELECTROLYTICALLY DEPOSITED IRON 67-05 M12-69010
TECHNIQUES OF DETERMINING AXIAL RESIDUAL STRESSES IN METAL SURFACE LAYERS 67-05 M13-68451
EXAMINATION OF CORRECTION FACTORS IN X-RAY RESIDUAL STRESS MEASUREMENT OF HARDENED STEEL 67-05 M17-68523
NEW WORK ON THE X-RAY DETERMINATION OF STRESSES AND INTERNAL DEFORMATION 67-05 M17-68526
THE EFFECT OF ELASTIC ANISOTROPY ON THE X-RAY STRESS MEASUREMENT IN STEEL SPECIMENS 67-05 M17-68527
THE RESIDUAL STRESS BEHAVIOR IN FATIGUE PROCESS OF HIGH TENSILE STRENGTH STEELS. PT. 1 67-05 M17-68530
STRESS IN VACUUM DEPOSITED FILMS OF SILVER 67-05 M17-69291
COMPARISON OF TWO METHODS OF EVALUATING STRESS RELAXATION IN STEEL 67-05 M17-69332
DETERMINATION OF RESIDUAL STRESSES IN ELECTROLYTIC COATINGS FROM THE DEFLECTION OF A FLAT CATHODE 67-05 M17-69615
INFLUENCE OF RESIDUAL STRESSES ON CORROSION CRACKING OF AUSTENITIC STAINLESS STEELS 67-05 M18-69007
FORMATION OF RESIDUAL STRESSES IN CASTINGS 67-06 M06-70292
INVESTIGATION OF THE GRINDING PROCESS OF SINTERED STEEL 67-06 M09-72329
STUDY OF THE FEASIBILITY OF REDUCING RESIDUAL STRESSES IN CASTINGS 67-06 M10-70297
INTERNAL STRESS IN ELECTRODEPOSITS 67-06 M12-71070
DISLOCATION ARRANGEMENT AND STRENGTHENING IN STAGE 2 IN PLASTICALLY DEFORMED GOLD SINGLE CRYSTALS 67-06 M13-71021
EFFECT OF SOME FACTORS ON THE MAGNITUDE AND DISTRIBUTION OF INTERNAL RESIDUAL STRESSES DURING THE CRYSTALLIZATION OF GERMANIUM SINGLE CRYSTALS 67-06 M14-70743
INVESTIGATION OF RESIDUAL STRESSES IN ARMCO IRON INDUCED BY DEFORMATION IN ULTRASONIC FIELD 67-06 M17-70058
RESIDUAL STRESSES AFTER THERMOMECHANICAL WORKING ASSOCIATED WITH IRREGULAR PLASTIC DEFORMATION 67-06 M17-70108
THE BENDING AND RESIDUAL STRESSES OF STRIPS 67-06 M17-70587
LATTICE STRAIN MEASUREMENTS ON DEFORMED FCC METALS 67-06 M17-71425
INFLUENCE OF RESIDUAL STRESSES ON FATIGUE STRENGTH OF RECLAIMED CRANKSHAFTS 67-06 M17-71651
INVESTIGATIONS ON THE FORMATION OF INTERNAL STRESSES FOLLOWING UNIAXIAL PLASTIC TENSILE DEFORMATION OF SILICON ALLOY STEEL 67-06 M17-71866
STUDY OF THE PROCESS OF MELTING IN A 1.5-TON CONVERTER WITH OXYGEN BLAST 67-07 M04-74044
RECTIFICATION OF STEEL CASTINGS BY LOCALIZED HEATING 67-07 M06-73049
METALLURGICAL ASPECTS OF HEAT TREATMENT OF LARGE STEEL FORGINGS 67-07 M10-74170
INVESTIGATION OF INTERNAL STRESSES IN SN-NI COATINGS 67-07 M12-73652
RESIDUAL STRESSES IN DIFFUSION COATED NI ALLOYS 67-07 M12-74178
MAGNETOSTRESS EFFECTS IN EVAPORATED NI FILMS 67-07 M15-73575
ON THE DETERMINATION OF RESIDUAL STRESSES BY THE SACHS METHOD 67-07 M17-72675
INCREASING THE FATIGUE LIFE OF SPOT-WELDS IN ALUMINUM AND TITANIUM ALLOYS 67-07 M17-72785
DETERMINATION OF THE RESIDUAL STRESSES IN COATINGS DEPOSITED ON CYLINDERS AND DISCS 67-07 M17-72791
DETERMINING THE STRESS CONDITION IN MATERIALS BY MEANS OF ULTRASONICS 67-07 M17-73101
PRESENT STATE OF THE DETERMINATION OF STRESSES BY X-RAY INVESTIGATION 67-07 M17-73291
INTERNAL STRESS IN ELECTRODEPOSITS 67-07 M17-73626
THE DISTRIBUTION OF RESIDUAL STRESSES OF DEFORMED FACE CENTERED CUBIC METALS 67-07 M17-73850

THE EFFECT OF MICROSTRUCTURE ON THE FORMATION OF RESIDUAL STRESSES IN UNALLOYED STEELS 67-07 M17-74211
BOILER RESEARCH AT RENFREW 67-08 M01-75704
STRESS RELIEVING AND STRESS CONTROL 67-08 M10-74847
INTERNAL STRESS IN ELECTRODEPOSITS. PT. 3 67-08 M12-74613
FAILURE OF NON-MAGNETIC ROTOR BANDING WIRE FROM STRESS-CORROSION 67-08 M17-74507
THE POTENTIAL DANGER OF CENTRIFUGE BASKETS 67-08 M17-74510
EXPERIMENTAL DETERMINATION OF INTERNAL STRESSES IN BILAYER SHEET STEEL 67-08 M17-74584
EFFECT OF THERMAL CYCLING ON RESIDUAL STRESSES IN DIE STEEL 67-08 M17-75482
RESIDUAL STRESSES DUE TO DEFORMATION IN A CR STEEL FOLLOWING DIFFERENT SURFACE TREATMENTS 67-08 M17-75507
X-RAY METHOD FOR RESIDUAL STRESS MEASUREMENTS 67-08 M17-75518
INFLUENCE OF RESIDUAL STRESSES ON PLASTIC DEFORMATION DURING CYCLIC STRESSING OF MACHINE PARTS 67-08 M17-76003
ANALYSIS OF RESIDUAL, THERMAL, AND LOADING STRESSES IN A B33 WHEEL AND THEIR RELATIONSHIP TO FATIGUE DAMAGE 67-09 M17-76460
BENDING FATIGUE STRENGTH OF GEARS UNDER VARIOUS LOADING CONDITIONS 67-09 M17-77577
A NEW METHOD OF DETERMINING EFFECTIVE FLOW STRESS IN PURE IRON AND SOME IRON ALLOYS 67-09 M17-77939
CORRECT CASTING DESIGN AS A PREREQUISITE OF HIGH-QUALITY CASTINGS 67-10 M06-78642
THE DETERMINATION OF THE RESIDUAL STRAIN IN SOME VITREOUS ENAMEL COATINGS 67-10 M17-78453
SECOND-ORDER RESIDUAL STRESSES IN ARMCO IRON DEFORMED IN AN ULTRASONIC FIELD 67-10 M17-78804
INFLUENCE OF RESIDUAL STRESSES ON THE FATIGUE STRENGTH OF CRANKSHAFTS AFTER REPAIR 67-10 M17-79619
DISTORTION OF THIN-WALLED PIECES DURING RELAXATION OF RESIDUAL STRESSES 67-11 M10-80960
HEAT GENERATION AND RESIDUAL STRESS DEVELOPMENT IN RESISTANCE SPOT WELDING 67-11 M11-80413
THE STRESS RELATIONSHIP IN STAGE B OF THE WORK HARDENING CURVE OF CD SINGLE CRYSTALS 67-11 M17-80368
RELAXATION TESTS OF HIGH-TEMPERATURE STRUCTURAL STEELS AND CAST STEEL 67-11 M17-80511
INTERNAL STRESS OF ELECTRODEPOSITED NICKEL IRON FILMS 67-11 M17-80817
INTERNAL FRICTION IN GRAY CAST IRON 67-11 M17-81661
RESIDUAL STRESS IN CAST IRON TUBES 67-12 M06-82087
CONDITIONS OF VIBROAGING OF MACHINE PARTS MADE OF CAST IRON 67-12 M10-81775
INFLUENCE OF PREHEATING ON RESIDUAL STRESSES IN STEAMPIPES OF 1KH18N9T STAINLESS STEEL 67-12 M11-83188
X-RAY LINE BROADENING AND RESIDUAL STRESS STUDIES OF COMPOSITE MATERIALS 67-12 M17-81820
SURFACE LAYER EFFECTS ON THE PLASTIC DEFORMATION OF IRON AND MOLYBDENUM 67-12 M17-82573
A SERIES FORM OF CORRECTION TO STRESSES MEASURED USING X-RAY DIFFRACTION 67-12 M17-82583
THE IMPORTANCE OF INTERNAL STRESS IN GRAY OR SPHEROIDAL CAST IRON 67-12 M17-82897
THE INFLUENCE OF INTERNAL STRESS ON CORROSION FATIGUE IN NICKEL-PLATED STEEL 67-12 M18-82606
STRENGTH OF HIGH STRENGTH STEEL STRUCTURE 67-12 M20-82924

RESIDUAL STRESS, CRYSTAL LATTICES
RESIDUAL STRAINS IN PHOSPHORUS-DIFFUSED SILICON 67-07 M17-72646

RESIDUAL STRESS, HEATING EFFECTS
RESIDUAL STRESSES IN STRUCTURAL PARTS--A COMMON CAUSE OF DEFECTS AND REJECTS 67-02 M17-60049
ON THE TEMPERING BEHAVIOR OF 3CR-W, 3CR-W-CO AND 12CR-W-CO-TYPE TOOL STEELS FOR HOT WORK 67-06 M17-70584
RESIDUAL STRESS AND ANGULAR DISTRIBUTION OF TOOL STEEL 67-07 M10-73795
USE OF PRELIMINARY HEATING IN THE CONSTRUCTION OF CONVERTER HOUSINGS 67-11 M11-80647

RESIDUAL STRESS, IMPURITY EFFECTS
THE COLD-WORK DAMPING PEAK IN ALPHA-IRON 67-09 M17-77930

RESIDUAL STRESS, WELDING EFFECTS
MEASUREMENT OF RESIDUAL STRESSES IN A HEAVY WELDMENT 67-02 M19-61583
CHARACTERISTICS OF THE DISTRIBUTION OF SURFACE RESIDUAL STRESSES IN WELDED PLATES MADE OF AVIAL ALLOY 67-04 M17-67003
RESIDUAL DEFORMATIONS AND STRESSES IN CIRCULAR WELDS OF PLATES AND SHELLS 67-06 M11-71648
SURFACE STRESS DISTRIBUTION CHARACTERISTICS OF WELDED A VIAL ALLOY SLABS 67-08 M17-74762
RESIDUAL STRESSES AND STRAIN ENERGY IN BUTT WELDS 67-09 M17-77815
RESIDUAL STRESSES AND STRAINS IN CIRCULAR WELDS IN PLATES AND SHELLS 67-10 M17-79617
RELATIONSHIP OF RESIDUAL STRESSES IN WELDING TO THE PHYSICO MECHANICAL PROPERTIES OF THE STEEL 67-11 M17-80551

RESILIENCE
AN ABRASION TEST FOR USE IN AGRICULTURAL ENGINEERING 67-07 M19-74251

RESINS
SEE POLYMERS

RESISTANCE
SEE ABRASION RESISTANCE
ACID RESISTANCE
CORROSION RESISTANCE
EROSION RESISTANCE
OXIDATION RESISTANCE
SHOCK RESISTANCE
THERMAL RESISTANCE

RESISTANCE BRAZING
REFRACTORY METALS BRAZED FOR OPERATION AT 2200 F 67-06 M11-72254

RESISTANCE BUTT WELDING
SEE RESISTANCE WELDING
UPSET WELDING

RESISTANCE FLASH WELDING
SEE FLASH WELDING

RESISTANCE FURNACES
SEE ELECTRIC RESISTANCE FURNACES

RESISTANCE HEATERS
SEE ELECTRIC HEATING ELEMENTS

RESISTANCE HEATING
SEE ALSO SLAG RESISTANCE HEATING
RECENT DEVELOPMENTS IN ELECTRIC REHEAT FURNACES 67-02 M07-59150
ECONOMICAL HOT WORKING THROUGH RESISTANCE HEATING 67-02 M07-59532
HIGH-TEMPERATURE ELECTROTHERMOMECHANICAL TREATMENT OF SPRING STEEL 67-02 M10-62231
CONDUCTIVE HEATING OF STEEL ROD SECTIONS FOR DIE FORGING 67-03 M07-65713
CONTINUOUS HEAT TREATMENT OF AN AUSTENITIC STRIP BY DIRECT RESISTANCE HEATING 67-04 M10-66015
STRESS RELIEVING FURNACES OF MODULAR CONSTRUCTION 67-04 M10-67494
TO BEAT THE COST OF COLD FORMING--TRY WARM FORMING 67-05 M08-68664
HEATING IN THE DROP FORGE. PT. 3. THE CASE FOR ELECTRICITY 67-07 M07-72761
AMERICAN OIL TURNS ON THE HEAT TO GET ITS CRACKERS CRACKING 67-08 M10-74443
FROM ROLL-HARDENING TO THE 40-MVA RESISTANCE HEATING OF STEEL AND ITS AUSTENITE GRAIN SIZE 67-08 M10-75105
THE IMPORTANCE OF INDUSTRIAL ELECTRIC HEATING TECHNOLOGY IN THE AUTOMATION OF THE FORGING OF MASS-PRODUCED AUTOMOTIVE PARTS 67-10 M07-78641
HEAT TREATMENT IN THE TOOL INDUSTRY 67-10 M10-79215
RESISTANCE HEATING 67-10 M10-79790

RESISTANCE SEAM WELDING
SEE ALSO FOIL SEAM WELDING
MASH SEAM WELDING
U. S. STEELS ERW PIPE MILL AT LORAIN IS IN PRODUCTION 67-05 M20-69489
INDUCTION HEATING FOR LONGITUDINAL SEAM WELDING OF TUBES WITH SURROUNDING HEATING INDUCTOR 67-07 M11-72426
RESISTANCE WELDING DESIGN FOR MAGNESIUM 67-08 M11-74442
BETTER WELDS IN GALVANIZED STEEL 67-12 M11-81924

RESISTANCE SPOT WELDING
SPECIFY SURFACE FINISH, RESISTANCE WELDS IMPROVE

67-03 M11-65359
THE INFLUENCE OF PASSIVATION FILMS ON ELECTROLYTIC ZINC GALVANIZED STRIP METAL ON THE SUITABILITY OF THE MATERIAL FOR RESISTANCE SPOT WELDING
67-04 M11-66724
RESISTANCE WELDING OF A VAD23 ALLOY
67-04 M11-66830
MEASUREMENT OF ELECTRODE MOVEMENT AS MEANS OF SPOT WELD QUALITY CONTROL 67-04 M11-68043
BOEING READIES GIANT NC SPOT WELDER FOR ADVANCED AIRCRAFT PRODUCTION 67-05 M11-68431
SPOT ARC WELDING AND SPOT RESISTANCE WELDING OF THERMALLY STRENGTHENED VT14 TITANIUM ALLOY
67-06 M11-70020
RESISTANCE WELDING TODAY 67-06 M11-72244
THE CONTROL OF WELDING TIME IN RELATION TO THE PATTERN OF RESISTANCE BETWEEN ELECTRODES
67-07 M11-73712
RESISTANCE WELDING DESIGN FOR MAGNESIUM
67-08 M11-74442
CONDENSER DISCHARGE WELDING USING VARIOUS ALLOYED INSERTIONS AS A NEW TYPE OF RESISTANCE SPOT WELDING PROCESS FOR ALUMINUM
67-08 M11-75608
RESISTANCE SPOT WELDING OF THIN GALVANIZED STEEL SHEETS 67-09 M11-77657

RESISTANCE THERMOMETERS
AN ALPHA-MANGANESE RESISTANCE THERMOMETER FOR THE MEASUREMENT OF LOW TEMPERATURES
67-03 M20-65738
PLATINUM FOR RESISTANCE THERMOMETRY. EFFECTS OF SURFACE CONTAMINATION 67-05 M20-69285
RECENT ADVANCES IN INDUSTRIAL PLATINUM RESISTANCE THERMOMETRY 67-05 M20-69417
EFFECT OF THERMAL SHOCKING ON MINCO MODEL S1059 PLATINUM RESISTANCE THERMOMETERS
67-06 M17-70836
CALIBRATION AND USE OF GERMANIUM RESISTANCE THERMOMETERS FOR PRECISE HEAT CAPACITY MEASUREMENTS FROM 1 TO 25 K. HIGH PURITY COPPER FOR INTERLABORATORY HEAT CAPACITY COMPARISONS
67-06 M20-70832
PRECISE RESISTANCE THERMOMETRY. PT. 2. A-C METHODS
67-08 M19-76202
HIGH-PRECISION INDIUM RESISTANCE THERMOETERS
67-11 M19-80330

RESISTANCE THERMOMETERS, CRYOGENICS
LOW-TEMPERATURE GERMANIUM RESISTANCE THERMOMETRY
67-01 M19-57228

RESISTANCE THERMOMETERS, ELECTRICAL PROPERTIES
DIFFUSED GERMANIUM RESISTORS FOR THERMOMETRY IN 20 TO 70 K. RANGE 67-04 M15-67401

RESISTANCE UPSET WELDING
SEE UPSET WELDING

RESISTANCE WELDING
SEE ALSO FLASH WELDING
FOIL SEAM WELDING
MASH SEAM WELDING
PERCUSSION WELDING
PROJECTION WELDING
PULSATION WELDING
RESISTANCE SEAM WELDING
RESISTANCE SPOT WELDING
UPSET WELDING
RESISTANCE BUTT WELDING OF FINNED TUBES
67-01 M11-57685
GALVANIZED STEELS FOR FABRICATED METAL PRODUCTS. PT. 2. FORMING, WELDING, SOLDERING AND PAINTING
67-01 M11-58794
SOME PARAMETERS OF CONTACT DEPOSIT ELECTROWELDING
67-01 M12-57397
APPARATUS FOR CONTINUOUS MAGNETIC RECORDING INSPECTION FOR SMALL-SIZE ELECTRIC RESISTANCE WELDED PIPE 67-01 M19-57908
AN ELECTRONICALLY CONTROLLED METHOD OF RESISTANCE WELDING THE ENDS OF HEAT EXCHANGER TUBES INTO THE HOLES IN END PLATES 67-02 M11-59648
WELDING OF SWITCHGEAR 67-02 M11-59838
BUTT RESISTANCE WELDING OF REINFORCING STRANDS WITH FILLER 67-02 M11-59857
FLASH WELDING OF CONNECTING ENDS TO DRILL TUBES
67-02 M11-60009
REVIEW OF THE INTRODUCTION OF THE RESISTANCE WELDING TECHNOLOGY IN THE GERMAN AIRCRAFT INDUSTRY 67-02 M11-60107
RESISTANCE WELDING OF STEEL TUBES. PT. 2
67-02 M11-60250
A METHOD OF WELDING SILICON ELECTRIC STEEL STRIPS
67-02 M11-61041
THERMAL CYCLE AND QUALITY OF WELD IN BUTT WELDING GRAY CAST IRON 67-02 M11-61263
BUTT WELDING 0.2-0.3 MM DIAM WIRE IN METAL-WEAVING PRODUCTION 67-02 M11-61268
RESISTANCE BUTT WELDING OF 80S STEEL REINFORCED RODS 67-02 M11-62161
RECLAMATION OF WORNOUT SURFACES BY RESISTANCE WELDING TECHNIQUE 67-02 M12-60137
FLASH WELDING OF REINFORCEMENT RODS MADE OF GRADE 80S STEEL 67-04 M11-67168
THE FLASH WELDING AND HEAT TREATMENT OF BAND SAWS
67-04 M11-67676
QUALITY OF RESISTANCE BUTT WELDED ZIRCONIUM ALLOY TUBES 67-04 M11-67809
WORN SURFACES RECONDITIONED BY RESISTANCE WELDING
67-04 M12-67677
MECHANICAL PROPERTIES OF BUTT JOINTS OF ALUMINUM LEADS WELDED BY DIFFERENT TECHNIQUES
67-04 M17-67447
THE INFLUENCE OF THE THERMAL CYCLE ON THE QUALITY OF RESISTANCE BUTT WELDS IN GREY IRON
67-05 M11-68263
BUTT WELDING OF 0.2-0.3 MM WIRE IN THE PRODUCTION OF WIRE GAUZE 67-05 M11-68268
PRODUCING TUBES ON A 72-219 ELECTROWELDING UNIT
67-05 M11-68329
RW CLOSER, THINNER FINS FOR BETTER TUBE HEAT EXCHANGE 67-05 M11-68432
U. S. STEEL OFFICIALLY OPENS NEW ERW MILL AT LORAIN WORKS 67-05 M11-68697
PROPERTIES OF ANNULAR SEAM WELDED JOINTS IN THIN WALLED TUBES OF ZIRCONIUM ALLOY
67-06 M11-70309
CONTACT WELDING OF PINS TO BOILER PIPES
67-06 M11-70393
THREE TYPES OF CABLE SHEATH PRODUCED BY HIGH FREQUENCY WELDING 67-06 M11-71137
PRODUCING HIGH QUALITY RESISTANCE WELDS IN ALUMINUM AND MAGNESIUM 67-06 M11-72245
PRODUCING TUBES ON ELECTRICAL TUBE-WELDING UNIT 73-219 67-07 M11-72857
WELDING METHODS TO PRODUCE TUBES AND SHAPES. PT. 1
67-07 M11-73710
AN ANALYTICAL INVESTIGATION OF THE TEMPERATURE DISTRIBUTIONS DURING RESISTANCE WELDING
67-07 M11-74283
THE STRENGTH IS IN THE SKELETON
67-07 M20-74093
HEAT TREATMENT OF HIGH-STRENGTH WELDED DRILLING TUBES 67-08 M10-74376
MANUFACTURING WELDED TUBES OF LOW-ALLOY STEELS
67-08 M11-74374
RESISTANCE WELDING--POWERFUL ANSWER TO RISING COSTS
67-08 M11-74728
WELDING DRILL PIPES OF HIGH-STRENGTH STEELS
67-08 M11-75408
PROGRESS OF RESISTANCE WELDING 67-09 M11-76658
THE RESISTANCE WELDING OF STUDS TO BOILER TUBES
67-09 M11-78093
SOME REASONS FOR DEFECTS IN RESISTANCE WELDED RAILS
67-09 M11-78120
FATIGUE RESISTANCE OF WELDED LARGE-SIZE DIESEL CRANKSHAFTS 67-10 M11-78409
RESISTANCE WELDING OF BRASS 67-10 M11-78412
MECHANIZATION AND AUTOMATION IN WELDING OF SECTIONAL PRESSURE VESSELS 67-10 M11-78415
WELDING IN MODERN GAS TURBINE ENGINE MANUFACTURE
67-10 M11-78796
HELICALLY AND LONGITUDINALLY FINNED TUBING BY HIGH-FREQUENCY RESISTANCE WELDING 67-10 M11-79195
SMALL TUBE UNCONFINED AREA RESISTANCE CLOSURE WELDING 67-11 M11-80409
HEAT GENERATION AND RESIDUAL STRESS DEVELOPMENT IN RESISTANCE SPOT WELDING 67-11 M11-80413
TEMPERATURE FLUCTUATIONS DURING THE WELDING OF PIPES USING ROTATING TRANSFORMERS
67-11 M11-80509
AN INVESTIGATION INTO THE MANUFACTURE OF ROUND STEEL CHAINS FABRICATED BY MEANS OF BUTT-SEAM RESISTANCE WELDING 67-11 M11-80510
CONTACT BUTT WELDING PIECES IN HIGH-STRENGTH ALUMINUM ALLOYS 67-11 M11-80639
USING AN OPTIMIZER TO SELECT A FLASHING-OFF RATE PROGRAM IN CONTACT BUTT WELDING
67-11 M11-80640
ELECTROMODELING OF THERMAL PROCESSES IN RESISTANCE SPOT WELDING 67-11 M11-80641
A REVOLUTION IN CAN-MAKING--THE WIRED WHEEL
67-11 M11-81499

THE FEASIBILITY OF ULTRASONIC INSPECTION OF CONTACT WELDED JOINTS IN BOILER PIPES 67-11 M19-80559
HEAT TREATMENT OF HIGH STRENGTH WELDED JOINTS IN DRILLING TUBES 67-12 M10-82249
RESISTANCE SPOT WELDING OF ALUMINUM-MAGNESIUM ALLOYS ON A MTIP-1000 MACHINE 67-12 M11-81919
THE WELDING OF DRILL TUBES MADE OF HIGH TENSILE STEELS 67-12 M11-82029
PRODUCTION OF WELDED TUBES IN LOW ALLOY STEELS 67-12 M11-82247
METALS JOINING 67-12 M11-82272
THE APPLICATION OF WELDING TECHNIQUES IN THE AIR AND IN SPACE 67-12 M11-82464
OPTIMUM THERMAL CYCLE DURING RESISTANCE WELDING OF 12KH1MF STEEL 67-12 M11-82626
EFFICIENT WELDING OF LARGE-SURFACE WIRE MESH 67-12 M11-82654
WELD FASTENERS FIND GROWING USE IN METALWORKING 67-12 M11-83137
HIGH FREQUENCY STRIKES AGAIN 67-12 M11-83178
RESISTANCE BUTT WELDING OF MOLYBDENUM TO ARMCO IRON 67-12 M11-83189
CHEMICAL HETEROGENEITY IN RESISTANCE WELDED STEEL JOINTS OF LARGE CROSS SECTION 67-12 M19-82627

RESISTANCE WELDING, AUTOMATION
THE AUTOMATION OF RESISTANCE WELDING 67-02 M11-60911

RESISTANCE WELDING MACHINES
FOREIGN RESISTANCE WELDING MACHINES 67-02 M11-61047
INDUCTION HEATING FOR LONGITUDINAL SEAM WELDING OF TUBES WITH SURROUNDING HEATING INDUCTOR 67-07 M11-72426
RESISTANCE WELDING--POWERFUL ANSWER TO RISING COSTS 67-08 M11-74728

RESISTANCE WELDS
SEE RESISTANCE WELDING
WELDED JOINTS

RESISTIVITY
SEE ALSO ELECTRON CONDUCTIVITY
HOLE CONDUCTIVITY
MAGNETORESISTIVITY
SUPERCONDUCTIVITY
SURFACE RESISTIVITY
IMPROVEMENT OF THE PROPERTIES OF EXTRUDED CONDUCTOR ALUMINUM 67-01 M14-58381
IDEAL MOS CURVES FOR SILICON 67-01 M15-57221
FATIGUE AND ELECTRICAL RESISTIVITY OF COPPER ELECTRODEPOSITS DUE TO CYCLIC STRESS 67-01 M15-57297
THERMOELECTRIC POWER AND ELECTRICAL RESISTIVITY OF CU3AU DOPED WITH 3D TRANSITION METALS 67-01 M15-57476
QUENCHING OF VACANCIES IN PURE ALUMINIUM AND IN DILUTE ALUMINIUM-INDIUM AND ALUMINIUM-MAGNESIUM ALLOYS 67-01 M15-57478
EFFECT OF PLASTIC DEFORMATION ON THE ELECTRICAL RESISTIVITY OF NICKEL ALLOYS WITH COPPER 67-01 M15-57662
MEASUREMENT OF THE THERMAL CONDUCTIVITY AND ELECTRICAL CONDUCTIVITY OF ZRC, HFC, NBC AND TAC AT HIGH TEMPERATURES 67-01 M15-58057
ELECTRON PARAMAGNETIC RESONANCE, ELECTRICAL CONDUCTIVITY, AND IMPURITY DIFFUSION IN DOPED BORON 67-01 M15-58416
QUANTUM SIZE EFFECT IN THIN BISMUTH FILMS 67-01 M15-58736
STAGE 1 RECOVERY OF PURE SILVER AND THE CORRESPONDENCE WITH COPPER 67-01 M16-57957
THE TEMPERATURE DEPENDENCE OF THE ELECTRICAL RESISTANCE OF ALKALI METALS AT LOW TEMPERATURES 67-01 M16-58399
VACUUM-DEPOSITED AMORPHOUS BORON FILMS 67-01 M16-58420
INVESTIGATION OF THE POSSIBILITIES OF USING WROUGHT ALUMINUM ALLOYS, ESPECIALLY OF THE TYPE AL2NMGCU, FOR SPRINGS SUBJECTED TO BENDING AND TORSIONAL STRESSES. PT. 2 67-01 M17-58224
DIFFUSED SEMICONDUCTOR LOW TEMPERATURE THERMOMETERS 67-01 M19-57225
APPLICATIONS OF REFRACTORY METALS IN INDUSTRIAL FUR 67-01 M20-58451
STUDY OF THE WORKS OF CARBURIZATION AND DECARBURIZATION OF TUNGSTEN RIBBONS BY THE MEASURE OF THEIR CONDUCTIVITY 67-02 M10-60984
THE EFFECT OF NONMETALLIC FILMS ON THE CONTACT RESISTANCE BETWEEN ELECTRICAL CONTACTS WHICH ARE ELECTROPLATED WITH SILVER 67-02 M12-59971
STUDY OF IRREGULARITIES DETECTED BY ANODE PICKLING IN N-TYPE GERMANIUM MONOCRYSTALS 67-02 M13-59566
STATE OF ORDERING AND THE ELECTRICAL RESISTIVITY IN THE QUASIBINARY SECTION NI4MO-NI4-W 67-02 M13-61896
ELIMINATION OF DEFECTS IN HIGH-PURITY ALUMINUM INDUCED BY ROLLING AT VERY LOW TEMPERATURES 67-02 M14-58961
THE KINETICS OF AGING REACTIONS IN 18 PER CENT NI MARAGING STEELS 67-02 M14-59425
STUDY OF THE ESTABLISHMENT OF ORDER KINETICS OF IRON-NICKEL ALLOYS BY MEASURING RESISTANCE 67-02 M14-62295
ELECTRICAL RESISTANCE AND THERMOELECTRIC POWER OF URANIUM DURING OXIDATION AT .001 TORR FROM 500 TO 800 C 67-02 M15-59048
THE ELECTRICAL RESISTANCE OF SILVER, COPPER, ALUMINUM, ZINC AND SODIUM BETWEEN 4 AND 298 K. DEPENDS ON THE IMPURITIES 67-02 M15-59906
ORIENTATION DEPENDENCY OF A RESISTANCE INCREASE CAUSED BY ALPHA IRRADIATION 67-02 M15-59910
ELECTRICAL AND THERMOELECTRICAL PROPERTIES OF COPPER THIN FILMS 67-02 M15-59920
EFFECT OF ION DIFFUSION IN HEAT TREATMENT AND THERMOMAGNETIC TREATMENT ON MAGNETOCRYSTALLOGRAPHIC ANISOTROPY IN NICKEL-COBALT FERRITE SINGLE CRYSTALS 67-02 M15-59933
ELECTRICAL RESISTIVITY OF CARBON COMPOSITE SINTERED MATERIALS. PT. 4. TEMPERATURE DEPENDENCE OF RESISTIVITY AND CARBON BULK DENSITY 67-02 M15-60162
ELECTRICAL RESISTIVITY OF CARBON COMPOSITE SINTERED MATERIALS. PT. 5. EFFECTS OF FIRING TEMPERATURE ON RESISTIVITY-TEMPERATURE DEPENDENCE 67-02 M15-60163
THE EFFECT OF PRESSURE ON THE RESISTIVITY AND THERMOELECTRIC POWER OF LIQUID MERCURY-INDIUM ALLOYS 67-02 M15-60807
CONDUCTIVITY MEASUREMENTS IN THE THALLIUM-TELLURIUM SYSTEM 67-02 M15-60880
TEMPERATURE DEPENDENCE OF ELECTRICAL RESISTIVITY OF SOME ALUMINUM-SILICON ALLOYS 67-02 M15-60900
ELECTRICAL PROPERTIES OF TERNARY BI-SN-TE ALLOYS IN A WIDE TEMPERATURE RANGE 67-02 M15-61071
VARIATION IN THE ELECTRICAL RESISTIVITY OF BISMUTH OF DIFFERENT PURITIES ON PLASTIC DEFORMATION AND ANNEALING 67-02 M15-61163
VARIATION IN THE ELECTRICAL RESISTIVITY OF IRON-COBALT-VANADIUM ALLOYS OF THE PERMENDUR TYPE 67-02 M15-61177
STORED ENERGY, VOLUME, AND RESISTIVITY CHANGE IN NEUTRON IRRADIATED ALUMINIUM 67-02 M15-61515
ELECTRICAL PROPERTIES OF GASB-GA2TE3 AND GASB-GATE SOLID SOLUTIONS 67-02 M15-61521
STUDY ON RECOVERY OF RESISTIVITY OF NIOBIUM IRRADIATED BY ELECTRONS AT 20 K 67-02 M15-61527
LONG-TIME EFFECT OF EXTERNAL FIELDS ON SURFACE SILICON OXIDE CONDUCTIVITY 67-02 M15-61535
INSULATION PROPERTIES OF CHARGE MATERIALS OF GRAPHITIZING AND ANNEALING FURNACES 67-02 M15-61613
ELECTRICAL CONDUCTIVITY OF LIQUID ALLOYS OF THE LEAD-SODIUM AND LEAD-POTASSIUM SYSTEMS 67-02 M15-61720
HALL EFFECT IN TRANSITION METALS WITH A SMALL NUMBER OF D-ELECTRONS 67-02 M15-61943
RESISTIVITY OF ORDERED AND DISORDERED IRON-NICKEL ALLOYS 67-02 M15-62193
INVESTIGATION OF THE ELECTRICAL AND SUPERCONDUCTIVE PROPERTIES OF METALS OF DIFFERENT PURITIES. PT. 3 67-02 M16-58925
EFFECT OF MICROHETEROGENEITY ON SUPERCONDUCTIVE CHARACTERISTICS OF NB-ZR-TA ALLOY 67-02 M16-59926
ELECTRICAL PROPERTIES OF SOME LIQUID SEMICONDUCTORS 67-02 M16-60810
LOW RESISTIVITY EPITAXIAL LAYERS OF SILICON 67-02 M16-61503
ELECTRICAL PROPERTIES OF N-TYPE EPITAXIAL GALLIUM ARSENIDE 67-02 M16-61507
MEASUREMENTS OF THE ANISOTROPY OF THE DISLOCATION RESISTIVITY IN AU, AG, AND CU

67-03 M13-65217
HIGH PRESSURE PHASE IN METALLIC INDIUM ANTIMONIDE
67-03 M14-65147
SELF-TRANSPORT IN POLYCRYSTALLINE ZN AND PB
67-03 M14-65201
ON THE MECHANISM OF LATTICE ELECTROMIGRATION IN METALS
67-03 M14-65227
REACTION KINETICS OF STAGE 3 RECOVERY IN ALUMINIUM AFTER NEUTRON IRRADIATION
67-03 M14-65380
MEASURING THE SPECIFIC RESISTANCE OF PLATES AND EPITAXIAL FILMS BY THE COUNTER PROBE METHOD
67-03 M15-65076
THE THERMAL AND ELECTRICAL CONDUCTIVITIES OF SCANDIUM, YTTRIUM AND MANGANESE AND TWELVE RARE-EARTH METALS, AT NORMAL TEMPERATURE
67-03 M15-65126
STRUCTURAL CHARACTERISTICS OF SOME ELECTRODEPOSITED ALUMINUM-MANGANESE ALLOYS
67-03 M15-65655
THE WIEDEMANN-FRANZ RATIO OF METALLIC URANIUM AT ELEVATED TEMPERATURES
67-03 M15-65869
ARSENIDES OF THE TRANSITION METALS. PT. 8. SOME BINARY AND TERNARY GROUP 8 DIARSENIDES AND THEIR MAGNETIC AND ELECTRICAL PROPERTIES
67-03 M15-65945
INVESTIGATIONS OF THE HALL EFFECT AND ELECTRICAL CONDUCTIVITY IN A SILVER-PALLADIUM SOLID SOLUTION
67-03 M16-65065
TEMPERATURE DEPENDENCE OF ELECTRON SCATTERING IN THIN SINGLE CRYSTAL FILMS OF GALLIUM AT HE TEMPERATURES
67-03 M16-65140
ELECTRICAL PROPERTIES OF TELLURIUM DOPED WITH IODINE
67-03 M16-65459
EFFECT OF STRUCTURAL DEFECTS ON SOME ELECTRICAL PROPERTIES OF GERMANIUM DOPED WITH GOLD AND ANTIMONY
67-03 M16-65461
ELECTRICAL RESISTIVITY OF SINGLE CRYSTAL CRO2
67-03 M16-65649
TEMPERATURE DEPENDENCE OF ELECTRICAL RESISTIVITY OF VO2 POWDER
67-03 M16-65654
EPITAXIAL GROWTH OF 3-5 MATERIALS
67-03 M16-65659
SOLID-STATE ELECTRONICS PT. 2. PROPERTIES OF SEMICONDUCTORS
67-03 M16-65669
CONTRIBUTION OF THE ELECTON-PHONON INTERACTION TO THE EFFECTIVE MASS, SUPERCONDUCTING TRANSITION TEMPERATURE, AND THE RESISTIVITY IN ALUMINIUM
67-03 M16-65720
SUPERCONDUCTING TRANSITION TEMPERATURE AND RESISTIVITY OF TIN WHISKERS AS A FUNCTION OF UNIAXIAL TENSION
67-03 M16-65748
ELECTRONIC CONDUCTION IN THERMALLY GROWN SILICON DIOXIDE FILMS
67-03 M16-65752
DISTRIBUTIONS OF ELECTRICALLY ACTIVE DEFECTS IN THE SURFACE REGION OF CDS SINGLE CRYSTALS
67-03 M16-65806
DIFFUSION ANALYSIS OF THE OBSERVED TIME LAG OF THE THERMAL COEFFICIENT OF RESISTIVITY OF GERMANIUM
67-03 M16-65886
CESIUM-ANTIMONY FILMS IN EQUILIBRIUM WITH CESIUM VAPOR
67-03 M16-65891
ANNEALING STUDY IN ELECTRON-IRRADIATED N-TYPE SILICON
67-03 M16-65898
ELECTRONS IN LIQUID METALS
67-03 M16-65934
GERMAN SILVERS IN THE FIRST AND SECOND CATEGORIES. PT. 3 AND 4
67-04 M01-66667
RECOVERY OF ELECTRICAL RESISTIVITY OF PURE IRON DEFORMED AT THE LIQUID NITROGEN TEMPERATURE
67-04 M14-66272
PREPARATION OF TITANIUM DISILICIDE SINGLE CRYSTALS
67-04 M14-66343
PRE-PRECIPITATION AND PRECIPITATION PHENOMENA IN THE AL-ZN SYSTEM
67-04 M14-66534
ELECTRICAL AND THERMOMETRIC PROPERTIES OF SUPERIMPOSED LEAD-COPPER FILMS AT LOW TEMPERATURES
67-04 M15-66120
ELECTRICAL PROPERTIES OF COPPER-ALUMINUM JOINTS MADE BY ARGON ARC WELDING
67-04 M15-66439
RELATIONSHIP OF MAGNETIZATION SATURATION AND ELECTRICAL RESISTANCE OF A NI-ZN-CO FERRITE WITH AN INDUCED RIGHT-ANGLED HYSTERESIS LOOP TO PHASE COMPOSITION
67-04 M15-66496
MODIFICATIONS OF THE STRUCTURE OF PURE OR ALLOYED ZIRCON OBTAINED BY PASSAGE OF A CONTINUOUS ELECTRIC CURRENT AT HIGH TEMPERATURES
67-04 M15-66665
ELECTRICAL RESISTIVITY AND CONDUCTIVITY OF TUNGSTEN-FIBER-REINFORCED COPPER COMPOSITES
67-04 M15-66944
ELECTRICAL PROPERTIES OF MELTS OF SIO2-UO2 SYSTEMS
67-04 M15-67106
SOME CHARACTERISTICS OF THE ELECTRICAL RESISTIVITY OF NICKEL-CHROMIUM ALLOYS WITH A LOW CONTENT OF CHROMIUM
67-04 M15-67157
THE INFLUENCE OF OXYGEN AND HYDROGEN ON THE ELECTRICAL CONDUCTIVITY OF IRON THIN FILMS
67-04 M15-67241
ELECTRIC AND MAGNETIC PROPERTIES OF VO
67-04 M15-67486
ELECTRICAL RESISTIVITY MEASUREMENTS OF LIQUID BINARY ALLOYS. PT. 1. BI-IN SYSTEM
67-04 M15-67518
ELECTRICAL PROPERTIES OF SINGLE-CRYSTAL SILVER FILMS
67-04 M15-67661
SOME PHYSICAL PROPERTIES OF NIOBIUM MONOCARBIDE IN THE HOMOGENEITY REGION
67-04 M15-67860
ELECTRICAL RESISTIVITY, THERMAL CONDUCTIVITY AND MAGNETIC SUSCEPTIBILITY OF POLYCRYSTALLINE SAMARIUM AT LOW TEMPERATURES
67-04 M15-68152
AN EXPERIMENTAL DETERMINATION OF ELECTRICAL RESISTIVITY OF DISLOCATIONS IN DEFORMED ALUMINUM
67-04 M15-68168
CONDUCTANCE INCREASE IN N-PBTE FILMS VIA ION BOMBARDMENT
67-04 M16-66176
RESISTOMETRIC MEASUREMENTS ON MOLYBDENUM IRRADIATED WITH 2.5 MEV ELECTRONS
67-04 M16-66531
THE COPPER-NICKEL RESISTANCE ALLOYS KONSTANTAN AND NICKELIN
67-04 M16-66633
THE ELECTRICAL RESISTIVITY OF THERMOMETRICALLY PURE PLATINUM BELOW 11 K
67-04 M16-68162
ON THE METHODS OF MEASURING CHANGES OF ELECTRICAL RESISTIVITY
67-04 M16-68163
FIELD-EMISSION MICROSCOPY OF GERMANIUM
67-05 M13-69769
PRECIPITATION AND AGE HARDENING BEHAVIOR OF CU-NI-AL ALLOYS
67-05 M14-68581
THE EFFECT OF P VAPOR ON COMMERCIAL NI AND W
67-05 M14-68586
THE THERMAL CONDUCTIVITY AND ELECTRICAL RESISTIVITY OF POLYCRYSTALLINE METALS OF THE PLATINUM GROUP AND OF SINGLE CRYSTALS OF RUTHENIUM
67-05 M15-68210
THE ELECTRICAL RESISTIVITY OF TECHNETIUM FROM 8.0 TO 1700 K
67-05 M15-68213
CHANGE IN THE ELECTRO- AND THERMOPHYSICAL PROPERTIES IN PSEUDOBINARY ALLOYS ZRCO.92-ZRNO.85 OF THE ZIRCONIUM-NITROGEN-CARBON SYSTEM
67-05 M15-68711
MEASURING THE ELECTRICAL CONDUCTIVITY OF GALVANIC DEPOSITS IN THE COURSE OF ELECTROLYSIS
67-05 M15-68738
ROLE OF PURPOSELY PRODUCED ALTERNATIONS OF CRYSTAL STRUCTURE IN THE MANUFACTURE OF CERAMIC PRODUCTS
67-05 M15-68813
ELECTRON TRANSPORT IN POLYCRYSTALLINE TIN
67-05 M15-68854
ELECTRICAL PROPERTIES OF VACUUM DEPOSITED NICKEL FILMS
67-05 M15-69094
THE ELECTRICAL AND THERMAL RESISTIVITIES OF IRON
67-05 M15-69774
ON THE INTERRELATIONSHIP OF SEMICONDUCTOR PROPERTIES OF ZINC BLENDE WITH ITS FLOTATION BEHAVIOR
67-05 M16-68954
ELECTRICAL PROPERTIES OF EPITAXIAL GE FILMS DEPOSITED ON --111-- CAF2 SUBSTRATES
67-05 M16-69212
EVALUATION OF MECHANICAL PROPERTIES OF 2014-T6 WELDMENTS BY NONDESTRUCTIVE --EDDY CURRENT-- METHODS
67-05 M19-69086
ANALYSIS OF BINARY ALLOYS FROM THE THERMO-EMF AND TEMPERATURE COEFFICIENT OF ELECTRICAL RESISTIVITY
67-05 M19-69306
THE RECENT DEVELOPMENTS OF ALUMINIUM CONDUCTORS IN FRANCE IN PUBLIC DISTRIBUTION AND INDUSTRIAL PLANTS
67-05 M20-68495
STUDY OF THE ELECTROCONDUCTIVITY OF SINTERING CHARGES AND THEIR COMPONENTS
67-06 M02-70267
THE ROLLING OF WATER-PULVERIZED KANTHAL FE ALLOY POWDER
67-06 M09-71740
INDENTIFICATION AND DESCRIPTION OF THE PROPERTIES OF ANODIC OXIDE FILMS ON AL
67-06 M12-71981
RECOVERY PHENOMENA IN COLD WORKED ALUMINIUM--ALUMINA ALLOYS
67-06 M14-70889
RESISTIVITY CHANGES IN AIR-QUENCHED GOLD WIRES
67-06 M14-70998
ENHANCED STAGE 1 RECOVERY OF DEFORMED ALUMINUM
67-06 M14-71516
REACTIVELY SPUTTERED VANADIUM DIOXIDE THIN FILMS
67-06 M14-72199

SILVER-BASE TERNARY ALLOY PROVES SUPERIOR FOR SLIP RING LEAD WIRES 67-06 M15-70010
THE CHANGE IN ELECTRICAL RESISTANCE OF METALS DURING MULTIPLE QUENCHING 67-06 M15-70591
RESISTIVITY INHOMOGENEITIES IN SILICON CRYSTALS 67-06 M15-70663
CALCULATION OF THE ELECTRICAL RESISTIVITY AND THE THERMOELECTRIC POWER OF VACANCIES IN COPPER AND GOLD 67-06 M15-70715
THE ELECTRICAL RESISTANCE OF PLATINUM AT REPEATED QUENCHING. PT. 2. THE IRREVERSIBLE CHANGE 67-06 M15-70716
THE EFFECT OF STRAIN HARDENING AND HEAT TREATMENT ON THE ELECTRICAL CONDUCTIVITY OF POLYCRYSTALLINE COPPER FILMS 67-06 M15-70745
ELECTRODELESS MEASUREMENT OF RESISTIVITIES OVER A VERY WIDE RANGE 67-06 M15-70834
CHANGE OF ELECTRICAL RESISTANCE OF PALLADIUM FILM DUE TO ADSORPTION OF CARBON MONOXIDE 67-06 M15-71029
NEGATIVE RESISTANCE IN CADMIUM SULPHIDE FILMS 67-06 M15-71044
ELECTRICAL RESISTIVITY, ELASTIC MODULUS, AND DEBYE TEMPERATURE OF TITANIUM DIBORIDE 67-06 M15-71058
ANOMALOUS RESISTANCE OF PURE GALLIUM NEAR 1.7 K 67-06 M15-71065
PHOTOCONDUCTIVE AND ELECTRICAL PROPERTIES OF UNCOMPENSATED BERYLLIUM-DOPED GERMANIUM 67-06 M15-71142
THE EFFECT OF PRESSURE ON THE CURIE TEMPERATURE AND RESISTIVITY OF SOME RARE-EARTH METALS AND HEUSLER ALLOYS 67-06 M15-71282
INFLUENCE OF CONDENSATION RATE ON ELECTRICAL PROPERTIES OF SILICIDE THIN FILMS 67-06 M15-71474
PREDICTED RESISTIVITIES OF LIQUID SILVER-TIN ALLOYS 67-06 M15-71990
STRUCTURE, CONDUCTIVITY AND HALL EFFECT OF ELECTRON BOMBARDMENT EVAPORATED SILICON FILMS ON SAPPHIRE 67-06 M15-72001
SOME ELECTROPHYSICAL PROPERTIES OF NIOBIUM AND ZIRCONIUM CARBIDES IN THEIR HOMOGENEOUS REGIONS 67-06 M15-72041
THE ANISOTROPY OF THE ELECTRONIC PROPERTIES OF INTRINSIC CDSE 67-06 M16-70465
CONTACTLESS MEASUREMENT OF RESISTIVITY OF SLICES OF SEMICONDUCTOR MATERIALS 67-06 M16-70551
MAGNETIC AND ELECTRICAL PROPERTIES OF COPPER CONTAINING SULPHIDES AND SELENIDES WITH SPINEL STRUCTURE 67-06 M16-71172
SOME DIELECTRIC AND ELECTRONIC PROPERTIES OF CDSE FILMS 67-06 M16-71185
NEGATIVE DIFFERENTIAL RESISTANCE AND INDUCTIVE EFFECTS IN SILICON CARBIDE 67-06 M16-71761
NEGATIVE DIFFERENTIAL RESISTANCE AND INDUCTIVE EFFECTS IN SILICON CARBIDE 67-06 M16-71919
ELECTRICAL RESISTANCE AND MAGNETIZATION OF TYPE 2 SUPERCONDUCTORS 67-06 M16-71991
PROPERTIES OF GOLD-CHROMIUM ALLOY PRESSURE GAUGES 67-06 M20-70553
THE COMPACTION OF METAL POWDERS BY ROLLING 67-07 M09-73866
RELAXATION SPECTRUM OF DEFORMED AL PLUS 0.25 WT PER CENT FE 67-07 M13-73983
LARGE AREA SILICON JUNCTIONS BY EPITAXIAL GROWTH TECHNIQUE 67-07 M14-73461
EPITAXIAL GROWTH OF VO2 SINGLE CRYSTALS AND THEIR ANISOTROPIC PROPERTIES IN ELECTRICAL RESISTIVITIES 67-07 M14-73996
ELECTRICAL CONDUCTIVITY AND DENSITY OF SUPERCRITICAL GASEOUS MERCURY AT HIGH PRESSURES 67-07 M15-72422
ELECTRICAL AND THERMOELECTRICAL PROPERTIES OF THIN COPPER FILMS 67-07 M15-72575
EFFECT OF ION DIFFUSION DURING HEAT AND THERMOMAGNETIC TREATMENTS ON THE MAGNETOCRYSTALLOGRAPHIC ANISOTROPY IN SINGLE CRYSTALS OF NICKEL-COBALT FERRITES 67-07 M15-72588
THE DEPENDENCE OF THE ELECTRICAL CONDUCTIVITY OF METALLIC WHISKERS ON THE DIAMETER 67-07 M15-72601
THE ELECTRICAL PROPERTIES OF TIG WELDED JOINTS BETWEEN COPPER AND ALUMINIUM 67-07 M15-72698
THE THERMAL CONDUCTIVITY OF GAP AND ALSB 67-07 M15-72750
THE THEORY OF ELECTRICAL RESISTIVITY OF POLYVALENT METALS 67-07 M15-72947
THE ELECTRICAL RESISTANCE ANOMALY OF NICKEL HYDRIDE AT LOW TEMPERATURES 67-07 M15-72962
MEASURING THE SPECIFIC RESISTANCE OF PLATES AND EPITAXIAL LAYERS BY THE OPPOSING PROBE METHOD 67-07 M15-72967
HALL EFFECT IN LI-DOPED MNO 67-07 M15-73298
MATTHIESSENS RULE IN SOME DILUTE NICKEL ALLOYS 67-07 M15-73311
STUDY OF THE EFFECT OF MAGNETIC ORDERING ON THE ELECTRICAL RESISTIVITY OF GDAL2 67-07 M15-73314
INCORPORATION OF IONS IN ANODIC OXIDE FILMS ON ZIRCONIUM AND THEIR EFFECT ON FILM BEHAVIOR 67-07 M15-73459
ANISOTROPY OF GALLIUM CONTRIBUTES TO FALSE CLASSIFICATION WITH ANTIMONY AND BISMUTH 67-07 M15-73493
OCCURRENCE OF A MINIMUM IN THE ELECTRICAL RESISTIVITY OF CHROMIUM ALLOYS AT LOW TEMPERATURE 67-07 M15-73530
TIME DEPENDENT CONDUCTIVITY IN TITANIUM OXIDE 67-07 M15-73638
THERMOELECTRIC PROPERTIES 67-07 M15-73686
PROPERTIES OF HIGHLY-PERMEABLE NI-FE-V ALLOYS 67-07 M15-73810
THE EFFECT OF PLASTIC DEFORMATION ON THE RESISTIVITY AND HALL EFFECT OF COPPER-PALLADIUM AND GOLD-PALLADIUM ALLOYS 67-07 M15-73907
RESISTANCE AND MAGNETORESISTANCE OF THIN INDIUM WIRES 67-07 M15-73936
ANOMALOUS ELECTRICAL RESISTIVITY OF FE7SE8 67-07 M15-73990
ELECTRICAL RESISTIVITY, MAGNETIC SUSCEPTIBILITY, AND THERMAL EXPANSION OF THORIUM MONOCARBIDE 67-07 M15-74239
RESISTIVITY OF LIQUID LEAD-TIN ALLOYS 67-07 M15-74243
THE PHASE TRANSITION IN VO2 67-07 M16-72408
EFFECT OF MICRONONHOMOGENEITY ON THE SUPERCONDUCTING CHARACTERISTICS OF THE ALLOY NB-ZR-TA 67-07 M16-72581
PROPERTIES OF GALLIUM ARSENIDE CRYSTALS PRODUCED BY LIQUID ENCAPSULATION PULLING 67-07 M16-72920
AN APPROXIMATE DENSITY OF STATES CURVE AND ITS RELATION TO THE MEASURED ELECTRICAL RESISTIVITY OF GOLD-PALLADIUM ALLOYS 67-07 M16-73908
EFFECTS OF HIGH PRESSURE, UNIAXIAL STRESS AND TEMPERATURE ON THE ELECTRICAL RESISTIVITY OF N-GAAS 67-07 M16-73945
SEMICONDUCTOR-TO-METAL TRANSITION IN V2O3 67-07 M16-73946
SEMICONDUCTOR-TO METAL TRANSITIONS IN TRANSITION-METAL COMPOUNDS 67-07 M16-73947
HIGH FREQUENCY CONDUCTIVITY OF VO2 67-07 M16-73994
COLUMBIUM AND TANTALUM ALLOY DEVELOPMENT 67-08 M01-74672
PRODUCTION AND PURITY CONTROL OF TUNGSTEN AND MOLYBDENUM SINGLE CRYSTALS 67-08 M01-75875
THE ELECTRICAL RESISTIVITY OF PB AND ZN COMPOUNDS. A CONTRIBUTION TO THE PROBLEM OF ELECTRIC GAS PURIFICATION 67-08 M03-74445
CHANGES IN STRUCTURE AND PROPERTIES OF AL-5 PER CENT ZN-1 PER CENT MG AND AL-5.5 PER CENT GE ALLOYS DURING AGING 67-08 M10-74628
ELECTRICAL RESISTIVITY STUDY OF LATTICE DEFECTS INTRODUCED IN ZONE REFINED-IRON BY DEFORMATION AT MINUS 196 C 67-08 M14-75051
PHASE STABILITY AND STACKING FAULTS IN CERIUM ALLOYS 67-08 M14-75124
INTERPRETATION OF THE HALL COEFFICIENT, ELECTRICAL RESISTIVITY AND SEEBECK COEFFICIENT OF P-TYPE LEAD TELLURIDE 67-08 M15-74388
MAGNETORESISTANCE EFFECT AND ELECTRIC RESISTANCE OF SINGLE CRYSTALS OF COBALT 67-08 M15-74406
ELASTORESISTANCE EFFECTS IN EVAPORATED-ANTIMONY FILMS 67-08 M15-74611
EFFECT OF SUBSTRATE TEMPERATURE ON THE ELECTROCONDUCTIVITY OF FILMS, PRODUCED BY VACUUM DEPOSITION OF TANTALUM 67-08 M15-74626
ELECTRICAL RESISTANCE AND ELECTRICAL TRANSPORT IN THE BI-ZN SYSTEM AT 700 C 67-08 M15-74644
DOUBLE INVERSION OF ELECTRIC TRANSPORT IN THE AL-ZN SYSTEM IN LIQUID STATE 67-08 M15-74645
THE RELATIONSHIP BETWEEN ELECTRICAL CONDUCTIVITY AND SOUND VELOCITY IN MOLTEN METALS 67-08 M15-74649
RESISTIVITY PROFILES AND THICKNESS MEASUREMENTS ON

MULTILAYERED SEMICONDUCTOR STRUCTURES BY THE SPREADING RESISTANCE TECHNIQUE
67-08 M15-74720
SOME INVESTIGATIONS ON THE ELECTRIC AND MAGNETIC PROPERTIES OF CR2O3-BEO SYSTEM
67-08 M15-74779
PROPERTIES OF TITANIUM-MOLYBDENUM ALLOY WIRE AS A SOURCE OF TITANIUM FOR SUBLIMATION PUMPS
67-08 M15-74785
IDEAL RESISTIVITY OF PLATINUM BELOW 20 K
67-08 M15-74794
A TEXTURED TRANSFORMER STEEL 67-08 M15-74872
THE PROPERTIES OF ELECTRODE GRAPHITE AND THEIR EFFECT ON THE USE OF ELECTRODES IN ARC FURNACES. PT. 1. THE TEMPERATURE DEPENDENCE OF VARIOUS PROPERTIES 67-08 M15-75111
THE DEPENDENCE OF THE ELECTRICAL CHARACTERISTICS OF NI-CR THIN FILMS ON EVAPORATION PARAMETERS
67-08 M15-75183
THE ISOTROPIC AND ANISOTROPIC CHANGES IN THE ELECTRICAL RESISTANCE, THERMAL EMF AND HALL FACTOR OF BISMUTH DURING ITS PLASTIC DEFORMATION
67-08 M15-75449
MEASUREMENT OF THE RATE OF HEAT RELEASE IN ALPHA-IRRADIATED AL BY MEANS OF A MICROCALORIMETER
67-08 M15-75648
A CRYOSTAT AND SUPERCONDUCTING MAGNET SYSTEM FOR EXPERIMENTS IN HIGH MAGNETIC FIELDS BETWEEN 1 AND 300 K 67-08 M15-75653
A SHORT SYNTHESIS OF THE THERMAL CONDUCTIVITY OF SOLID METALS AT ABSOLUTE TEMPERATURES BELOW 500K 67-08 M15-76161
RECOVERY OF ELECTRICAL RESISTIVITY IN NI DEFORMED AT LOW TEMPERATURES 67-08 M15-76215
MICROWAVE MEASUREMENT OF DIFFERENTIAL NEGATIVE CONDUCTIVITY DUE TO INTERVALLEY TRANSFER OF HOT ELECTRONS IN N-TYPE GAAS 67-08 M16-74470
UNIT-CUBE EXPRESSION FOR SPACE-CHARGE RESISTANCE
67-08 M16-75708
CREEP-ELECTRICAL CONDUCTIVITY CORRELATIONS IN POLYCRYSTALLINE BERYLLIUM OXIDE
67-08 M17-76097
ELECTRICAL EVALUATION OF SEMICONDUCTOR FILMS
67-08 M19-74718
SILICON OXYNITRIDE REFRACTORIES
67-09 M05-77966
STUDY OF WARM WORKING. PT. 3. WARM DRAWING OF COPPER ALLOYS 67-09 M07-78251
LOW ENERGY SPUTTERING OF RESISTIVE FILMS
67-09 M12-77532
CHANGES IN LATTICE PARAMETERS OF NEUTRON-IRRADIATED ALUMINUM 67-09 M14-77834
PRESSURE-TEMPERATURE PHASE DIAGRAM OF URANIUM METAL
67-09 M14-78219
PHYSICAL PROPERTIES OF ALPHA PLUTONIUM AND DELTA PU-PHASE ALLOYS AT LOW TEMPERATURES
67-09 M15-76311
PREPARATION AND PROPERTIES OF SOME GROUPS V AND VI COMPOUNDS OF PLUTONIUM 67-09 M15-76343
ELECTRIC AND THERMOELECTRIC EFFECTS IN A SOLID SOLUTION OF ZNXCD1-XSB 67-09 M15-76737
ELECTRICAL RESISTIVITY OF SMAG, SMCU AND SMAU
67-09 M15-77455
THE ELECTRICAL RESISTANCE OF BISMUTH FROM 25 TO 90 KBARS 67-09 M15-77734
CALCULATING THE RESISTANCE OF ALUMINUM
67-09 M15-77780
ANOMALIES DUE TO S-D INTERACTION AT VERY LOW TEMPERATURES IN DILUTE AU-V ALLOYS
67-09 M15-77972
CHARACTERISTICS OF CU-W-CO AND CU-WC-CO CONTACT ALLOYS FOR HEAVY CURRENT APPLICATIONS
67-09 M15-78226
CONDUCTANCE AND CAPACITANCE OF 6 DEGREE TILT BOUNDARIES IN P-TYPE INSB 67-09 M16-77448
CURRENT SATURATION IN THE EVAPORATED GAAS FILMS
67-09 M16-77453
EFFECT OF DIELECTRIC AND HIGH-RESISTIVITY BARRIERS ON THE SUPERCONDUCTING TRANSITION TEMPERATURE OF THIN FILMS 67-09 M16-77562
DETERMINATION OF SOLUTE ATOM-VACANCY BINDING ENERGY IN AL-MN 1.04 PER CENT DILUTE ALLOY
67-09 M16-77598
METAL CLAD EXTENDS COPPER CONDUCTOR RANGE TO 1300 F
67-10 M12-80093
ADSORPTION, SURFACE REACTION, AND MUTUAL DISPLACEMENT OF CO, CO2 AND O2 ON TITANIUM FILM
67-10 M14-79576
CONDUCTIVITY MEASUREMENTS ON PBSE SINGLE CRYSTALS WITH NATURAL P-N JUNCTION 67-10 M15-78446
MEASUREMENTS OF CONDUCTIVITY AND PERMITTIVITY OF SEMICONDUCTORS AT MICROWAVE FREQUENCIES
67-10 M15-78724
PREPARATION OF CU2SE SINGLE CRYSTALS AND INVESTIGATION OF THEIR ELECTRICAL PROPERTIES
67-10 M15-79004
CONDUCTIVITY RANGE AND ABSORPTION EDGE OF ZINC SELENO-TELLURIDES 67-10 M15-79120
CHANGES IN ELECTRICAL CONDUCTIVITY OF COPPER SMELTER SLAGS DURING THEIR PROCESSING
67-10 M15-79128
THICKNESS EFFECTS OF ELECTRON SCATTERING AT AU-FILM SURFACES 67-10 M15-79156
THERMOPHYSICAL PROPERTIES OF TANTALUM AT TEMPERATURES ABOVE 1000 C 67-10 M15-79249
ELECTRICAL RESISTIVITY OF REFRACTORIES
67-10 M15-79431
INVESTIGATION OF THE DEPENDENCE OF CERTAIN PROPERTIES OF MAGNESIUM AND MANGANESE FERRITES ON THEIR COMPOSITION 67-10 M15-79457
EFFECT OF CARBON ON THE ELECTRICAL RESISTIVITY AND ALLOTROPIC TRANSFORMATION OF THORIUM
67-10 M15-79595
ELECTRICAL RESISTIVITY AND PHASE RELATIONS FOR THE THORIUM-CARBON SYSTEM 67-10 M15-79596
INFLUENCE OF ADSORPTION OF CS, BA, TH AND CU ATOMS AND OF AN ELECTRIC FIELD ON THE HALL EFFECT AND ELECTRIC CONDUCTIVITY OF THIN NICKEL FILMS
67-10 M15-79649
VARIATIONS OF THE ELECTRICAL CONDUCTIVITY OF TITANIUM AND NIOBIUM OXIDES WITH THE PARTIAL BALANCING OF O2 PRESSURE AT HIGH TEMPERATURE
67-10 M15-79708
STUDY OF THE ELECTRICAL CONDUCTIVITY OF CDSNAS2 IN THE SOLID AND LIQUID STATES 67-10 M15-79831
CONTRIBUTION TO THE STUDY OF THE PHENOMENA ASSOCIATED WITH ORDER-DISORDER TRANSITIONS IN FE-NI ALLOYS 67-10 M15-80018
VISCOSITIES AND RESISTIVITIES OF MELTS OF THE SYSTEM MANGANOUS OXIDE-CALCIUM OXIDE SILICA WITH 10 PER CENT ALUMINA 67-10 M15-80064
FLUX NONFLOW IN THE FLUX-FLOW REGIME IN BULK TIN
67-10 M16-78731
SUPPORTING EVIDENCE FOR LONG-RANGE DEFECT MIGRATION IN THE STAGE-1 RECOVERY OF COPPER
67-10 M16-79413
ENERGY GAP IN BETA AG2SE 67-10 M16-79420
STRAIN HARDENING OF ZR SPECIMENS OF VARYING PURITY BY ROLLING AT AMBIENT TEMPERATURES
67-10 M17-79898
STRUCTURE OF COPPER-TIN GALVANIC DEPOSITS
67-11 M12-81288
THERMAL DIFFUSIVITY OF PLATINUM FROM 300 TO 1200 K
67-11 M14-81083
THERMOELECTRIC AND GALVANOMAGNETIC MEASUREMENTS ON --BI2TE3--5--BI2SE3--1--SB2TE3--18
67-11 M15-80121
THERMAL PROPERTIES OF ARMCO IRON
67-11 M15-80122
FLASH EVAPORATION AND THIN FILMS OF CUPROUS SULFIDE, SELENIDE, AND TELLURIDE
67-11 M15-80123
THERMOMAGNETIC EFFECTS IN THE SEMICONDUCTING INTERMETALLIDES, ZN4SB3 AND ZN3SB2, AND THE CHARACTER OF THE CHEMICAL BOND
67-11 M15-80172
BRAGG REFLECTION OF ELECTRONS IN LIQUID ALLOYS
67-11 M15-80182
PHENOMENOLOGICAL THEORY OF THE RESISTIVITY AND SUSCEPTIBILITY OF DILUTE RH-FE AND IR-FE ALLOYS
67-11 M15-80184
A HALL FOUR-POINT PROBE ON THIN PLATES. THEORY AND EXPERIMENT 67-11 M15-80536
THERMAL DIFFUSIVITY AND ELECTRICAL CONDUCTIVITY OF ALLOYS OF THE COPPER-ANTIMONY SYSTEM IN THE LIQUID STATE 67-11 M15-80654
HALL EFFECT IN NI-CU ALLOYS AT LOW TEMPERATURES
67-11 M15-80725
ELECTRICAL RESISTANCE FERROMAGNETIC CR-GE ALLOYS IN THE 20 TO 300 K. TEMPERATURE RANGE
67-11 M15-80747
ELECTRICAL RESISTIVITY OF MOLTEN CESIUM AT HIGH PRESSURES 67-11 M15-80759
THERMOELECTRIC PROPERTIES OF YTTRIUM-GROUP V AND YTTRIUM-GROUP VI BINARY AND TERNARY COMPOUNDS
67-11 M15-80762
LOW TEMPERATURE RECOVERY IN COLD WORKED FCC METALS
67-11 M15-80776

THE HEATING AND ELECTRICAL LOAD-CARRYING CAPACITY OF OVERHEAD CONDUCTORS FOR RAILROADS
67-11 M15-80799
STRAIN GAGE FACTOR AND ELECTRICAL RESISTIVITY IN THE COLD WORKED STATE OF FE-NI-CR ALLOYS CONTAINING 35 WT PER CENT NI AND 0-20 WT PER CENT CR
67-11 M15-81070
INFLUENCE OF A SUPERIMPOSED FILM ON THE ELECTRICAL CONDUCTIVITY OF THIN METAL FILMS
67-11 M15-81087
THERMAL CONDUCTIVITY AND HEAT CAPACITY OF THE MONOCARBIDE, MONOPHOSPHIDE AND MONOSULFIDE OF URANIUM
67-11 M15-81089
EFFECTS OF ORDERING ON THE TRANSPORT PROPERTIES OF SODIUM TUNGSTEN BRONZE
67-11 M15-81397
VISCOSITY AND ELECTRICAL RESISTANCE OF FERROSILICOCHROME AND CHROME-VANADIUM PIG
67-11 M15-81438
NEGATIVE RESISTANCE AND INSTABILITIES OF BISMUTH CRYSTALS IN A MAGNETIC FIELD
67-11 M15-81473
SEMICONDUCTING PROPERTIES OF THALLIUM SELENIDE
67-11 M15-81476
A NOTE ON THE ELECTRICAL RESISTIVITY OF SOME 1-4 AND 3-5 LIQUID ALLOY SYSTEMS
67-11 M15-81571
RECOVERY OF THERMOELECTRIC POWER AND ELECTRICAL RESISTIVITY OF GOLD, FOLLOWING SMALL PLASTIC DEFORMATION AT-195 C
67-11 M15-81591
TRANSPORT PHENOMENA IN SEMICONDUCTING THIN FILMS
67-11 M16-80223
TWO-BAND CONDUCTION IN PT, W, AND PB
67-11 M16-80325
MEASUREMENT OF LOW JOINT RESISTANCE BETWEEN SUPERCONDUCTORS
67-11 M16-80333
PSEUDOATOM PHASE SHIFTS FOR MONOVALENT METALS AND ALLOYS. PT. 1. ELECTRICAL RESISTIVITIES AND THERMOELECTRIC POWERS OF THE MONOVALENT LIQUID METALS
67-11 M16-81478
INTERNAL OXIDATION OF AGAL AND AGMG ALLOYS
67-11 M17-80345
ELECTRICAL MEASUREMENTS FOR TRACE CHARACTERIZATION
67-11 M19-80132
WETTABILITIES OF GRAPHITE MATERIALS BY MELTS OF THE SYSTEM, NA3ALF6-ALF-MGCL2, AND THEIR ELECTRICAL CONDUCTIVITIES
67-12 M03-83458
GRAPHICAL CALCULATION OF THE CHARGE COMPOSITION OF MULTICOMPONENT SINTERED MATERIALS
67-12 M09-82201
QUANTITATIVE STUDY OF THE SUBSTRUCTURE AND PROPERTIES OF SHOCK-LOADED COPPER
67-12 M13-82860
STUDY OF WORK HARDENING AND RECOVERY IN MOLYBDENUM AND TUNGSTEN
67-12 M14-83520
THE RESISTANCE AND CRYSTAL STRUCTURE OF CERIUM AS DETERMINED BY TEMPERATURE CYCLING
67-12 M15-82289
AN ELECTROINDUCTION METHOD OF CHECKING THE SPECIFIC ELECTRICAL RESISTANCE OF ALUMINUM INGOTS FOR WIRE
67-12 M15-82307
ELECTRICAL PROPERTIES OF NONSTOICHIOMETRIC THORIUM CARBIDES
67-12 M15-82364
PHYSICAL PROPERTIES OF STEELS
67-12 M15-82394
ELECTRICAL RESISTANCE AND THERMAL EXPANSION OF TI-NB-CR ALLOYS
67-12 M15-82422
AN ELECTRON BEAM METHOD OF MEASURING RESISTIVITY DISTRIBUTION IN MSEMICONDUCTORS
67-12 M15-82673
CHANGE IN THE ELECTRO- AND THERMOPHYSICAL PROPERTIES IN PSEUDOBINARY ALLOYS ALONG THE RAY ZRC0.92-ZRN0.85 OF THE ZIRCONIUM-NITROGEN-CARBON SYSTEM
67-12 M15-82687
SOME PHYSICAL PROPERTIES OF ALLOYS OF THE SYSTEMS ZRC-NBC AND TAC-HFC
67-12 M15-82793
INVESTIGATION OF THE EFFECT OF CONDENSATION RATE OF SILICIDE FILMS ON THEIR ELECTRICAL CHARACTERISTICS
67-12 M15-82795
THE EFFECTS OF DEFORMATION ON THE ELECTRICAL RESISTIVITY OF MOLYBDENUM SINGLE CRYSTALS
67-12 M15-82858
GRAPHITE. PROGRESS OF A BLACK ART
67-12 M15-82997
THERMOELECTRIC POWER AND RESISTIVITY OF CHROMIUM-RICH CR-FE ALLOYS BETWEEN 25 AND 1000 C
67-12 M15-83260
ELECTRICAL CONDUCTIVITY AND HALL EFFECT IN THIN VANADIUM FILMS
67-12 M15-83272
THE MAGNETIC AND ELECTRICAL PROPETIES OF IRON-GADOLINIUM FILMS
67-12 M15-83306
ANOMALOUS ELECTRIC CONDUCTION PHENOMENA OF THIN ALUMINUM OXIDE FILMS IN VACUUM
67-12 M15-83547
OXIDATION OF EVAPORATED ZINC FILM
67-12 M15-83549
THE INFLUENCE OF SMALL COLD DEFORMATION PRECEDING AGING IN 15 AND 18 PER CENT NICKEL MARAGING STEEL
67-12 M17-82578
DEFORMATION MECHANISMS IN HEXAGONAL METALS WITH A C..A RATIO ABOVE 1.633
67-12 M17-83499

RESISTIVITY, ALLOYING EFFECTS
THE EFFECT OF COBALT SUBSTITUTION ON ELECTRICAL CONDUCTION IN NICKEL FERRITE
67-01 M15-58781
THE EFFECTS OF ADDITIONAL ELEMENTS ON DISCONTINUOUS PRECIPITATION IN COPPER-BERYLLIUM ALLOYS
67-02 M14-59128
THE RESISTIVITY OF DILUTE SOLUTIONS OF MAGNESIUM IN LITHIUM IN THE LIQUID AND SOLID STATES
67-05 M15-68289
CONTRIBUTION TO THE KNOWLEDGE OF THE PHYSICAL PROPERTIES OF CU-MN SOLID SOLUTIONS AS DEPENDENT ON PRIOR THERMAL AND MECHANICAL TREATMENTS
67-05 M15-69844
MAGNETIC SUSCEPTIBILITY OF NICKEL-SILICON ALLOYS
67-07 M15-73854
STRAIN GAGE FACTOR AND ELECTRICAL AND MAGNETIC PROPERTIES IN AS-COLDWORKED STATE OF IRON-NICKEL-CHROMIUM ALLOYS CONTAINING 35 WT PER CENT NICKEL AND 0-20 WT PER CENT CHROMIUM
67-08 M15-74433
INFLUENCE OF ADDITIONS OF BERYLLIUM, THALLIUM, AND SILICON ON THE HEAT RESISTANCE AND ELECTRICAL AND MECHANICAL PROPERTIES OF SILVER
67-08 M15-74998
ELECTRICAL RESISTIVITY OF CARBON COMPOSITE SINTERED MATERIALS. PT. 8. EFFECTS OF CARBON MATERIALS ON RESISTIVITY
67-08 M15-75306
INCREASING THE STRENGTH OF CONDUCTORS MADE OF COPPER ALLOYS
67-08 M17-74862
PROPERTIES OF ALLOYED NI-BE ALLOYS
67-08 M17-74984
INFLUENCE OF SMALL AMOUNTS OF CERIUM, IRON, NICKEL, AND COBALT ON THE MECHANICAL PROPERTIES AND ELECTRICAL CONDUCTIVITY OF ALUMINUM
67-08 M17-76128
INFLUENCES OF THE ADDITIONAL ELEMENTS ON SOME PROPERTIES OF HIGH-ZIRCONIUM CU ZR ALLOYS
67-09 M01-77249
INVESTIGATION OF THE ELECTRICAL CONDUCTIVITY OF ALUMINUM ALLOYS HAVING SILICON AS THE MAIN ALLOYING ELEMENT
67-09 M15-77034
FE-CO AND FE-V ALLOYS FOR PRESSURE CALIBRATION IN THE 130- TO 300-KBAR REGION
67-10 M15-79157
EFFECT OF SLIGHT SILVER IMPURITIES ON THE ELECTRICAL RESISTANCE OF PALLADIUM
67-10 M15-79633
THE AGING BEHAVIOR OF CU-4WT PER CENT TI ALLOY
67-11 M17-81060
ELECTRICAL RESISTIVITY OF CHROMIUM ALLOYS
67-12 M15-81766

RESISTIVITY, ATMOSPHERES
THE EFFECT OF VARIATIONS IN THE CONCENTRATION OF ATMOSPHERIC CONSTITUENTS ON THE ELECTRICAL CONDUCTIVITY OF ZINC OXIDE
67-05 M15-68276

RESISTIVITY, COMPOSITION EFFECTS
VARIATIONS IN SOME PROPERTIES OF SINTERED TUNGSTEN CARBIDE-COBALT ALLOYS WITH PARTICLE SIZE AND BINDER COMPOSITION
67-01 M15-58743
THE INFLUENCE OF EXCESS NONSTOICHIOMETRIC BI ON THE THERMAL CONDUCTIVITY OF CRYSTAL LATTICES OF BI2TE3, BI2TE3-SB2-TE3 AND BI2TE3-BI2S3 WITH IODINE ADDITIONS
67-03 M15-65383
HIGH ELECTRICAL CONDUCTIVITY AND HIGH HEAT RESISTIVITY OF SOME AL ALLOYS
67-04 M15-67575
CONDUCTIVITY AND HALL CONSTANT. PT. 35. ON THE INFLUENCE OF VALENCY OF BETA-METALS ON THE CHANGE OF ELECTRICAL PROPERTIES BY SHORT RANGE ORDER IN TERNARY COPPER AND SILVER BASE ALPHA-SOLID SOLUTIONS
67-06 M15-71720
A RESISTOMETRIC STUDY OF PHASE EQUILIBRIA AT LOW TEMPERATURES IN THE VANADIUM-HYDROGEN SYSTEM
67-12 M15-82752

RESISTIVITY, COOLING EFFECTS
THE ELECTRICAL RESISTANCE OF PLATINUM AT REPEATED QUENCHING. PT. 1. THE REVERSIBLE CHANGE
67-02 M15-61096
ON QUENCHED-IN RESISTIVITY IN SAP
67-06 M15-70434

RESISTIVITY, CORROSION EFFECTS
THE ESTIMATION OF CORROSION VELOCITY BY MEASURING

RESISTIVITY

POLARIZATION RESISTANCE 67-07 M18-72765
RESISTIVITY, HEATING EFFECTS
ON REVERSION PHENOMENA OF CU-CR ALLOYS 67-02 M14-59985
SHORT-RANGE ORDER AND K-STATE IN PD-W AND PD-CO ALLOYS 67-02 M14-62093
PRECIPITATION HARDENING IN IRON-MOLYBDENUM ALLOY 67-04 M17-67550
ELECTRICAL RESISTIVITY OF ALLOYS OF THE SYSTEM AL-SI-CU-MG AS A FUNCTION OF THE HEAT TREATMENT CONDITIONS 67-05 M15-68835
STUDIES ON THE PHYSICAL METALLURGY OF AL-AG BINARY ALLOY 67-05 M15-68897
RESISTIVITY EXAMINATION OF ARTIFICIAL AGEING IN AN ALUMINIUM-COPPER-CADMIUM ALLOY 67-07 M15-72814
HALOGEN TREATMENT OF BATIO3 SEMICONDUCTORS 67-08 M15-75990
HEAT TREATMENT OF INSB CRYSTALS WITH DIFFERENT DISLOCATION DENSITIES 67-11 M15-80237
THE RECOVERY SPECTRUM OF COBALT 67-12 M15-82011
RESISTIVITY, IMPURITY EFFECTS
THE EFFECT OF TRANSITION METAL IMPURITIES ON THE RESIDUAL RESISTIVITY OF AL, ZN, IN AND SN 67-03 M15-65687
ELECTRICAL RESISTIVITY OF HYDROGEN-CHARGED NIOBIUM 67-04 M15-67574
SOME ELECTRICAL-RESISTIVITY MEASUREMENTS ON CERIUM METALS OF VARIOUS PURITIES 67-06 M15-69930
HIGH VACUUM PURIFICATION OF NIOBIUM AND TANTALUM AND ITS INFLUENCE ON THE ELECTRIC RESISTIVITY 67-06 M15-71668
LOCALIZED IMPURITY STATES IN LIQUID METALS--DILUTE ALLOYS OF NICKEL IN LIQUID BISMUTH 67-07 M15-73986
THE EFFECT OF SILICON ON CUPROUS OXIDE 67-08 M15-74610
EFFECT OF GRAIN BOUNDARIES ON THE ELECTRICAL RESISTIVITY OF HIGH-PURITY IRON AT 4.2 K 67-08 M15-75121
EVIDENCE FOR TWO-CURRENT CONDUCTION IRON 67-09 M15-76590
A STUDY OF THE TWO PURITY CRITERIA OF ZIRCONIUM 67-10 M13-79875
EFFECT OF DONOR IMPURITY CONCENTRATION ON THE PIEZORESISTANCE OF N-TYPE GASB 67-10 M15-79015
TRACE CHARACTERIZATION AND THE PROPERTIES OF MATERIALS 67-11 M01-80131
EFFECT OF BACKGROUND-GAS IMPURITIES ON THE FORMATION OF SPUTTERED BETA-TANTALUM FILMS 67-11 M15-81078
PSEUDOATOM PHASE SHIFTS FOR MONOVALENT METALS AND ALLOYS. PT. 2. MONOVALENT IMPURITY RESISTIVITIES IN MONOVALENT METALS 67-11 • M16-81479
ABOUT THE ROLE OF MINORITY CARRIERS IN THE IMPURITY CONDUCTION OF GASB 67-12 M16-82014
RESISTIVITY, MAGNETIC PROPERTIES
VARIATION OF THE LOW-TEMPERATURE RESISTIVITY IN DILUTE MAGNETIC ALLOYS 67-07 M15-73524
RESISTIVITY, PRESSURE EFFECTS
OBSERVATIONS OF THE BI 3-4 AND BI 4-5 TRANSITIONS BY RESISTIVITY MEASUREMENTS 67-06 M15-71618
THE RESISTIVITY OF CALCIUM, STRONTIUM AND BARIUM UNDER PRESSURE 67-07 M15-73143
DEFORMATION OF THE FERMI SURFACE OF BISMUTH AT PRESSURES UP TO 8 KBAR 67-10 M15-79461
MEASUREMENT OF THE SHUBNIKOVDE HAAS EFFECT IN GRAPHITE AT PRESSURES UP TO 8 KBAR 67-10 M15-79466
PRESSURE EFFECTS ON THE ELECTRICAL PROPERTIES OF POLYCRYSTALLINE BORON 67-10 M15-79965
INTERBAND CARRIER TRANSFER IN GAAS AT HIGH PRESSURES 67-10 M16-79360
PHASE RELATIONS, RESISTIVITY, AND ELECTRONIC STRUCTURE OF CESIUM AT HIGH PRESSURES 67-10 M16-79414
RESISTIVITY, RADIATION EFFECTS
THE ANNEALING OF IRRADIATION DAMAGE IN GRAPHITE 67-02 M15-59054
STUDY OF N- AND P-TYPE SILICON EXPOSED TO HIGHLY ENERGETIC RADIATION 67-03 M16-65741
ANNEALING OF FAST NEUTRON DAMAGE IN IMPURITY-CONDUCTING N-TYPE GERMANIUM 67-03 M16-65892
ELECTRICAL RESISTANCE OF IRRADIATED ALPHA URANIUM CRYSTALS 67-04 M15-67464
ANNEALING OF NEUTRON-IRRADIATION-INDUCED CHANGES IN IMPURITY CONDUCTION IN ANTIMONY-DOPED GERMANIUM 67-04 M16-66787
THE EFFECT OF IRRADIATION TEMPERATURE ON THE RESISTIVITY RECOVERY OF COPPER 67-05 M14-69372
RADIATION DAMAGE IN PD PRODUCED BY 1-3 MEV ELECTRONS 67-05 M16-69810
RECOVERY OF THE ELECTRICAL RESISTIVITY OF PURE METALS AFTER SHORT IRRADIATION WITH NEUTRONS INSIDE A REACTOR 67-08 M15-75644
SURVEY OF THERMAL-NEUTRON DAMAGE IN PURE METALS 67-08 M16-74661
SELF-IRRADIATION DAMAGE IN TRANSURANIC ELEMENTS AND COMPOUNDS 67-09 M15-76314
FORMATION OF STRUCTURE DEFECTS IN LOW-TEMPERATURE X-IRRADIATION OF INDIUM ANTIMONIDE 67-09 M16-76778
RADIATION DAMAGE IN THIN METAL FILMS AT 4.2 K 67-10 M15-79406
STUDY OF ELONGATION VARIATIONS OF ALPHA PLUTONIUM BY SELF-IRRADIATION AT 4 K 67-11 M14-80606
ELECTRON IRRADIATION OF PURE AND ALLOYED ALUMINUM ABOVE STAGE I 67-11 M16-80780
INFLUENCE OF THE NATURE OF ADDITION ELEMENTS ON ELIMINATION OF DEFECTS IN ALUMINUM SUBJECTED TO NEUTRON IRRADIATION AT 78 K 67-11 M16-81562
RECOVERY OF ELECTRON-IRRADIATED ALUMINUM AND ALUMINUM ALLOYS. PT. 1. STAGE 1 67-12 M16-82529
IRRADIATION DAMAGE IN N-TYPE GERMANIUM AT 4.2 K 67-12 M16-82531
EFFECTS OF LOW-TEMPERATURE ELECTRON IRRADIATION ON THE ELECTRICAL PROPERTIES OF UNDOPED GASB 67-12 M16-82533
RESISTIVITY, RECOVERY
INVESTIGATION OF THE RECOVERY OF METALS AFTER QUENCHING 67-02 M17-58995
RESISTIVITY, SIZE EFFECTS
THEORY OF SIZE EFFECTS IN ELECTRICAL CONDUCTIVITY 67-01 M15-57941
GROWING ORIENTATED STRAIN-FREE BISMUTH SINGLE CRYSTALS OF SPECIALIZED SHAPES 67-10 M14-78673
THE INFLUENCE OF THE SIZE EFFECT ON ELECTRICAL RESISTIVITY MEASUREMENTS IN IRRADIATED METALS 67-10 M15-79019
SOME EFFECTS OF SAMPLE SIZE ON ELECTRICAL TRANSPORT IN BISMUTH 67-10 M15-79417
RESISTIVITY, STRESS EFFECTS
AGING CHARACTERISTICS AND EFFECTS OF PLASTIC DEFORMATION ON PRECIPITATION IN AL-4 PER CENT CU AND AL-20 PER CENT AG ALLOYS WITH OR WITHOUT TRACE ELEMENTS 67-05 M14-68880
THE RECOVERY OF THE ELECTRICAL RESISTIVITY OF NICKEL AFTER PLASTIC DEFORMATION 67-06 M15-70441
RESTORATION OF ELECTRICAL RESISTANCE INDUCED BY PLASTIC DEFORMATION IN BISMUTH OF VARYING PURITY 67-06 M15-71379
RESISTIVITY OF DEFORMED CRYSTALS 67-06 M15-71536
INFLUENCE OF UNIAXIAL COMPRESSION ON HOPPING CONDUCTION IN P-TYPE SI 67-06 M15-71774
ELECTRICAL RESISTIVITY RECOVERY OF COLD-WORKED HIGH PURITY NICKEL 67-06 M15-71965
THE CHANGE IN ELECTRICAL RESISTIVITY WITH PLASTIC DEFORMATION OF ALUMINUM AND NICKEL 67-06 M15-71972
MECHANICAL AND ELECTRICAL PROPERTIES OF BERYLLIUM WIRE 67-07 M17-73755
THE CHANGE IN ELECTRICAL RESISTIVITY WITH PLASTIC DEFORMATION OF COPPER AT DIFFERENT STRAIN RATES 67-09 M15-77563
RESISTIVITY, TEMPERATURE EFFECTS
CATION-SELF-DIFFUSION AND ELECTRICAL CONDUCTIVITY IN POLYCRYSTALLINE BERYLLIUM OXIDE 67-02 M14-61835
THE EFFECT OF ELECTRICAL CONDUCTION IN UO2 ON THE MEASUREMENT OF ITS HIGH TEMPERATURE THERMAL CONDUCTIVITY AS DETERMINED BY RADIAL FLOW TECHNIQUES 67-02 M15-59052
ELECTRICAL RESISTIVITY OF UNDERCOOLED GALLIUM AND GALLIUM-INDIUM EUTECTIC ALLOY 67-02 M15-59433
ELECTRICAL PROPERTIES OF ALPHA-IN2SE3 67-02 M15-59480
EFFECT OF TEMPERATURE ON IMPEDANCE OF PAINTED STEEL PANELS 67-02 M15-60990
ELECTRICAL RESISTIVITY OF ALPHA URANIUM CRYSTALS IN THE TEMPERATURE RANGE 67 TO 293 K

67-04 M15-67463
TEMPERATURE VARIATION OF THE RESISTIVITY OF THIN GOLD FILMS 67-05 M13-69038
TEMPERATURE DEPENDENCE OF THE ELECTRICAL RESISTIVITY OF ALUMINIUM FILMS 67-05 M15-68748
ELECTRICAL RESISTIVITY STUDIES OF CHROMIUM-RICH CHROMIUM-COBALT ALLOYS 67-05 M15-69522
EMISSIVITY AND ELECTRICAL RESISTIVITY OF TANTALUM AT HIGH TEMPERATURES 67-05 M15-69847
ELECTRO- AND THERMOTRANSPORT IN IRON 67-06 M15-70426
COMMENTS ON THE LOW TEMPERATURE ELECTRICAL RESISTIVITY OF LATTICE DEFECTS IN DEFORMED TUNGSTEN SINGLE CRYSTALS 67-06 M15-70429
REPLY TO COMMENTS ON THE LOW TEMPERATURE ELECTRICAL RESISTIVITY OF LATTICE DEFECTS IN DEFORMED TUNGSTEN SINGLE CRYSTALS 67-06 M15-70430
THERMAL AND ELECTRICAL CONDUCTIVITIES AND SPECTRAL AND TOTAL EMISSIVITIES OF NICKEL AT HIGH TEMPERATURES 67-06 M15-70574
ELECTRICAL RESISTIVITY OF POLYCRYSTALLINE PRASEODYMIUM BETWEEN 2 AND 325 K 67-06 M15-70798
ELECTRICAL PROPERTIES OF BETA-AG2TE AND BETA-AG2SE FROM 4.2 TO 300 K 67-07 M15-72648
THE NATURE OF THE K-STATE IN THE SYSTEM OF IRON AND ALUMINIUM 67-08 M15-74405
ON THE PECULIAR TEMPERATURE VARIATION OF ELECTRICAL RESISTIVITY OF DILUTE AU-V ALLOYS 67-08 M15-75057
ELECTRICAL RESISTIVITY OF INDIUM-ANTIMONY ALLOY FILMS PREPARED BY VACUUM EVAPORATION 67-10 M15-78775
NATURE OF ELECTRICAL CONTACT BETWEEN TARNISHED SURFACES 67-10 M15-79155
ELECTRON-BEAM DEPOSITION OF MOLYBDENUM CARBIDE FILMS FROM MOLYBDENUM HEXACARBONYL 67-10 M15-79446
CHANGE IN THE CHARACTER OF THE CHEMICAL BOND ON MELTING COMPOUNDS WITH THE NACL AND CAF2 TYPE OF LATTICE 67-11 M15-80163
THE ELECTRICAL RESISTIVITY OF AU4V 67-11 M15-80185
THE ELECTRICAL RESISTIVITY OF GOLD-SILVER ALLOYS 67-11 M15-80307
ELECTRIC CONDUCTIVITY AND DIELECTRIC ABSORPTION PHENOMENA IN LEAD ZIRCONATE CERAMICS 67-11 M15-80618
STUDY OF THE ELECTRICAL RESISTANCE OF IRON-SILICON ALLOYS IN THE 800 TO 1700 C. TEMPERATURE RANGE 67-11 M15-80743
EFFECT OF MARTENSITIC TRANSFORMATION ON THE ELECTRICAL AND MAGNETIC PROPERTIES OF NITI 67-12 M15-82748
RECOVERY OF ELECTRICAL RESISTIVITY IN PURE IRON DEFORMED AT 77 K 67-12 M15-83152
OBSERVATION OF A DEVIATION FROM MATTHIESSENS LAW IN ZIRCONIUM 67-12 M15-83156

RESISTOMETRIC ANALYSIS
SEE CONDUCTIOMETRIC ANALYSIS

RESISTOR FURNACES
SEE ELECTRIC RESISTANCE FURNACES

RESISTORS
SEE ALSO THERMISTORS
VARISTORS
GERMANIUM RESISTANCE THERMOMETRY IN THE RANGE 2.1 TO 5.0 K 67-05 M15-69501
PRACTICAL ASPECTS OF TEMPERATURE CONTROL IN HEAT TREATMENT OPERATIONS. PT. 6 67-12 M19-82355

RESISTORS, COATING
RECENT DEVELOPMENTS IN THE VACUUM DEPOSITION OF ELECTRONIC FILM CIRCUITS 67-08 M12-75175

RESISTORS, ELECTRICAL PROPERTIES
NONLINEAR RESISTANCES 67-03 M16-65724
DIFFUSED GERMANIUM RESISTORS FOR THERMOMETRY IN 20 TO 70 K. RANGE 67-04 M15-67401

RESISTORS, MATERIALS
TOPHET-D --ELECTRICAL RESISTANCE ALLOY-- 67-04 M01-66322
A NICKEL-BASE ALLOY 67-05 M20-69233

RESONANCE /MAGNETIC/
SEE MAGNETIC RESONANCE

RESONANCE TESTING
SEE ULTRASONIC TESTING

RESONANT FREQUENCY
PRESSURE-DEPENDENCE OF THE KNIGHT SHIFT IN POLYCRYSTALLINE BETA TIN, LEAD, AND PLATINUM 67-02 M16-60535
CYCLOTRON RESONANCE IN TELLURIUM AT SUBMILLIMETER WAVELENGTHS 67-04 M16-66754
PRECISE, CONTINUOUS AND RAPID MEASUREMENTS OF DYNAMIC ELASTIC CONSTANTS AND INTERNAL FRICTION BY THE VIBRATOR-CONTROLLED OSCILLATOR SYSTEM 67-08 M17-74436
INFLUENCE OF THE SAMPLE GEOMETRY ON FREQUENCY AND Q-VALUE OF THE HELICON RESONANCE IN PBTE 67-10 M16-79356
BIG SHAKE TAKES THE STRESS OUT OF METAL 67-12 M20-81897

RESONANT FREQUENCY, TEMPERATURE EFFECTS
A MEASUREMENT OF THE TEMPERATURE COEFFICIENT OF THE EFFECTIVE RESONANCE INTEGRAL FOR URANIUM CARBIDE 67-09 M16-76456

RESULFURIZED STEELS, CASTING
QUALITY EVALUATION OF CORRUGATED VERSUS SMOOTH-WALLED MOLDS 67-03 M04-65528

RESULFURIZED STEELS, CHEMICAL COMPOSITION
THE TECHNOLOGY OF HIGH-SPEED STEELS. PT. 3. SPECIAL GRADES, DIMENSIONALLY STABLE AND SULFURIZED HIGH-SPEED STEEL 67-10 M07-79957

RESULFURIZED STEELS, CORROSION
HOW URANIUM AFFECTS CORROSION OF RESULFURIZED STAINLESSES 67-03 M18-65983

RESULFURIZED STEELS, FORGING
FORGING METALLURGY--STEEL. PT. 5. COLD FORGING 67-04 M07-68131

RESULFURIZED STEELS, MACHINING
MACHINABILITY AND METALLURGY OF RESULFURIZED LOW-CARBON FREE-MACHINING STEELS 67-01 M08-58688

RESULFURIZED STEELS, MECHANICAL PROPERTIES
EFFECT OF URANIUM ON THE TRANSVERSE DUCTILITY OF RESULPHURIZED CHROMIUM STAINLESS STEEL ROLLED PLATE 67-05 M17-68345

RESULFURIZED STEELS, MELTING
PRELIMINARY EXPERIMENTS ON RATE OF SOLIDIFICATION AND THE FORMATION OF SULFIDE INCLUSIONS IN RESULFURIZED STEELS. PT. 1. INVESTIGATION INTO THE STRUCTURE OF STEEL INGOTS 67-07 M04-72497
BASIC OXYGEN FURNACES MAKE QUALITY ALLOY STEEL 67-10 M04-78765

RESULFURIZED STEELS, MICROSTRUCTURE
STUDIES ON THE SOLIDIFYING RATE AND FORMATION OF SULFIDE INCLUSIONS IN VARIOUS RESULFURIZED STEELS 67-04 M13-67560
THE EFFECT OF OXYGEN IN RESULFURIZED STEELS. PT. 1 67-09 M04-76724

RESURFACING
SEE SURFACING

RETAINED AUSTENITE
NEW METHOD FOR THE DETERMINATION OF AUSTENITE IN STEELS 67-02 M13-60693
EFFECT OF ULTRASONIC VIBRATION ON DECOMPOSITION OF RESIDUAL AUSTENITE IN KHVG STEEL 67-02 M14-62268
TECHNOLOGICAL FACTORS, DETERMINING THE SELECTION OF STEELS FOR FULL HARDENED RAILS 67-04 M10-66627
MATHEMATICAL-STATISTICAL INVESTIGATION OF THE DELTA FERRITE CONTENT OF AUSTENITIC STEELS 67-04 M13-67205
THE DETERMINATION OF RESIDUAL AUSTENITE BY DIFFERENTIAL THERMAL ANALYSIS --DTA-- 67-04 M13-67209
THE MARTENSITE TRANSFORMATION IN SMALL --0.1-0.3 MM-- IRON-NICKEL SINGLE CRYSTALS 67-04 M14-66054
STRENGTHENING OF AUSTENITE DURING DIRECT AND REVERSE MARTENSITIC TRANSFORMATION 67-04 M14-67938
THE DETERMINATION OF RETAINED AUSTENITE BY X-RAY DIFFRACTION 67-04 M19-66294
ON THE RADIOCRYSTALLOGRAPHIC METHOD OF DETERMINATION OF RESIDUAL AUSTENITE IN QUENCHED STEELS 67-05 M13-69115
MARTENSITE IN IRON-NITROGEN ALLOYS 67-07 M14-74173
MECHANICAL PROPERTIES OF CARBONITRIDED STEELS. PT. 2. THE FATIGUE STRENGTH OF CARBONITRIDED STEELS-- THE RELATIONSHIP BETWEEN RESIDUAL AUSTENITE CONTENT IN CARBONITRIDED LAYERS AND FATIGUE STRENGTH 67-07 M17-74210
THE PROBLEM OF STABILIZING AUSTENITE 67-08 M14-74343
INVESTIGATIONS ON THE TRANSFORMATION OF THE RETAINED AUSTENITE IN LOW-ALLOY STEELS WITH ABOUT 1 PER CENT C 67-09 M14-77349

RETAINED AUSTENITE
THE QUESTION OF THE CHANGES OF THE SOLUTION AND TRANSFORMATION BEHAVIOR OF ROLLER BEARING STEEL, 100 CR 6, AFTER REMELTING WITH THE ESU PROCESS WITH CONSIDERATION FOR THE FABRICATION OF SCIENTIFIC APPARATUS 67-11 M14-80215
THE CAUSES OF INCREASED STRENGTH DUE TO AUSFORMING TREATMENT 67-12 M08-83348
SECONDARY HEATING IN THE WELDING OF VL-1D STEEL 67-12 M11-82312
CONTRIBUTION TO THE DECOMPOSITION OF RETAINED AUSTENITE IN HIGH-CR STEELS 67-12 M14-82558
INFLUENCE OF THERMOMECHANICAL TREATMENT ON STRUCTURE OF THE CHROMANSIL-TYPE STEELS 67-12 M14-83543
RETAINED AUSTENITE, HEATING EFFECTS
STUDIES ON SOUND VELOCITY IN HARDENED CHROMIUM STEEL 67-08 M16-75694
RETAINED AUSTENITE, WELDMENTS
CONCERNING THE SELECTION OF ADDITIONAL HEATING PARAMETERS FOR WELDED THIN SHEET VL-1D STEEL 67-07 M11-72733
RETORT FURNACES
SEMI-INDUSTRIAL VIBRATION FURNACE FOR PRODUCING ALKALINE METALS --POTASSIUM--BY THE VACUUM-THERMAL METHOD 67-08 M03-75145
REVAPORIZATION
SEE VAPORIZING
REVERBERATION
SEE REFLECTION
SOUND WAVES
REVERBERATORY FURNACES
SEE ALSO ELECTRIC FURNACES
OPENHEARTH FURNACES
TILTING OPENHEARTH FURNACES
OPTIMIZATION OF PROPORTIONING LIMESTONE INTO A COPPER CHARGE 67-04 M03-66963
EMPLOYING AN AIR-OXYGEN BLAST IN REVERBATORY SMELTING OF COPPER CONCENTRATES 67-04 M03-67519
HEAT WORK OF A REVERBERATORY FURNACE USING PREHEATED AIR BLAST 67-05 M03-69530
A NEW APPROACH TO BULK MELTING OF ALUMINUM 67-08 M03-74651
RECENT CHANGES IN REVERBATORY SMELTING PRACTICE AT SOVIET COPPER SMELTERS 67-12 M02-83087
STATIONARY REVERBERATORY FURNACES IN THE CU INDUSTRY 67-12 M03-82665
REVERSING MILLS
IMPALCO WORKS IN SOUTH WALES HAS 6 MILLION POUNDS UP-TO-DATE LOOK 67-04 M07-66136
REPUBLICS NEW PLATE MILL AT GADSDEN 67-06 M07-71005
SCOW HAS DEMONSTRATION ON ALUMINIUM STRIP MILL 67-07 M07-72415
REPUBLIC STEELS NEW PLATE MILL AT GADSDEN 67-07 M07-72775
AN IMPROVED TECHNOLOGY FOR HOT ROLLING OF COPPER-ZINC ALLOYS 67-07 M07-72784
ACCURACY OF NOMINAL WIDTH OF PLATE ROLLED ON REVERSING PLATE MILLS 67-07 M07-74142
ROLLING MILL AT FUSINA 67-07 M07-74262
THE SEIZING AND PASSING OF INGOTS THROUGH THE ROLLS IN ROLLING ON REVERSING MILLS 67-08 M07-75588
FINDING A PRACTICAL METHOD FOR CALCULATING ROLL FORCE IN WIDE REVERSING COLD MILLS 67-09 M07-76670
OPTIMIZED ROLLING PRACTICE ON BLOOMING-SLABBING MILLS IN THE WEAKENING FIELD RANGE OF THE MAIN DRIVE 67-10 M07-78697
OPERATION OF D-C REVERSING MILL MOTORS WITH INCREASED CONSTANT CURRENTS DURING ACCELERATION AND BRAKING 67-10 M07-78698
REVERSING MILLS, AUTOMATION
MEDIUM SECTION MILL AT LANCASHIRE STEEL MANUFACTURING COMPANY, LIMITED 67-08 M07-74657
REWINDING
SEE WINDING
RHENIUM, ALLOYING ADDITIVE
FAULTING IN COLD WORKED TA-10 PER CENT RE AND W-20 PER CENT RE 67-01 M13-58455
THE OXIDATION OF CB-ZR AND CB-ZR-RE ALLOYS IN OXYGEN AT 1000 C 67-03 M18-65094
THERMOPHYSICAL PROPERTIES OF HEAT-RESISTANT TUNGSTEN-RHENIUM ALLOY VR-27-VT 67-06 M15-72043
ORIGIN OF MICROCRACKS IN MO-35 AT.PER CENT RE ALLOY 67-08 M17-75282
THE IDENTIFICATION OF RHENIUM IN TUNGSTEN-RHENIUM ALLOYS USING THE FIELD-ION MICROSCOPE 67-10 M13-78906
EFFECT OF CERTAIN ALLOYING ELEMENTS ON THE STRENGTH AND PLASTICITY OF TITANIUM IN THE -196 TO 800 C. TEMPERATURE RANGE 67-11 M17-81163
MAGNETIC SUSCEPTIBILITY OF FACE-CENTERED CUBIC IRON-RHENIUM ALLOYS 67-12 M15-82013
RHENIUM, BAND THEORY
BAND STRUCTURE AND FERMI SURFACE FOR RHENIUM 67-02 M16-60762
RHENIUM, BINARY SYSTEMS
PHASE DIAGRAM OF THE SCANDIUM-RHENIUM SYSTEM 67-02 M13-62238
FAULTING IN COLD WORKED TA-10 PER CENT RE AND W-20 PER CENT RE 67-06 M17-71086
TRANSFORMATIONS AND STRUCTURES IN THE URANIUM-RHENIUM SYSTEM. PT. 3. FORMATION AND STRUCTURE OF DELTA --U2RE-- 67-07 M14-74231
RHENIUM, COATINGS
VAPOR-PHASE DEPOSITION OF REFRACTORY METALS BY THERMAL DECOMPOSITION OF REDUCTION OF ONE OF THEIR HALIDES 67-08 M12-76214
PLATING 67-11 M12-80480
RHENIUM, CORROSION
CORROSION STUDIES OF TUNGSTEN MOLYBDENUM AND RHENIUM IN LITHIUM 67-04 M18-66390
RHENIUM, CRYSTAL LATTICES
HELIUM FIELD-ION MICROSCOPY OF HEXAGONAL CLOSE-PACKED METALS 67-10 M13-79554
RHENIUM, DEPOSITION
PRODUCTION OF MOLYBDENUM AND RHENIUM FOIL FOR NUCLEAR RESEARCH 67-10 M03-78978
RHENIUM, ELECTRICAL PROPERTIES
THE TRANSITION TEMPERATURE OF SUPERCONDUCTING TECHNETIUM-RHENIUM ALLOYS 67-02 M15-61530
RHENIUM, EXTRACTION
EXTRACTING RHENIUM FROM UNTREATED MOLYBDENUM SULFIDE CONCENTRATES 67-04 M03-67128
BEHAVIOR OF RHENIUM MINERALS DURING GRINDING AND FLOTATION 67-05 M02-69527
RHENIUM--ITS EXTRACTION AND USES 67-05 M03-68430
SIMULTANEOUS ELECTRODEPOSITION OF NICKEL WITH RHENIUM AND MOLYBDENUM FROM SULFATE-AMMONIA ELECTROLYTE AND THE MECHANISM OF THIS PROCESS 67-11 M03-80439
RHENIUM, FERMI SURFACE
HIGH-FIELD DE HAAS-VAN ALPHEN EFFECT IN RHENIUM 67-01 M16-58755
RHENIUM, HEAT TREATMENT
STRESS RELIEF MECHANISM IN REFRACTORY METALS 67-11 M10-81421
RHENIUM, INTERMETALLICS
ON THE SUPERCONDUCTIVITY OF HF-RH ALLOYS 67-05 M16-69342
SUPERCONDUCTIVITY AND ISOTOPE EFFECT IN BE22X COMPOUNDS AND MOLYBDENUM 67-06 M16-71989
THE REFINEMENT OF THE STRUCTURES OF THE INTERMETALLIC PHASES REAL6 AND TCAL6 67-08 M13-76137
RHENIUM, MACHINING
CLEAVAGE CRACKS INDUCED BY SPARK MACHINING 67-02 M08-61779
RHENIUM, MAGNETIC PROPERTIES
SPIN DETERMINATIONS OF NEUTRON RESONANCES IN SB, TA, RE, AND IR, USING IRON-ALLOY TARGETS 67-07 M15-72931
RHENIUM, MECHANICAL PROPERTIES
RARE METALS AND THEIR ALLOYS AS MATERIALS FOR MODERN TECHNOLOGY 67-03 M17-65181
RHENIUM, MICROSTRUCTURE
DETECTION OF THE SUBSTRUCTURE OF W, MO AND RE SINGLE CRYSTALS 67-10 M13-79205
RHENIUM, OXIDATION
GAS-SOLID REACTIONS IN FLOW ENVIRONMENTS AT HIGH TEMPERATURES 67-09 M18-77505
RHENIUM, PHASE TRANSFORMATIONS
TEMPERATURE DEPENDENCE OF ELASTIC MODULI OF RUTHENIUM, RHENIUM, COBALT, DYSPROSIUM, AND ERBIUM., A STUDY OF THE ELASTIC ANISTROPY-PHASE TRANSFORMATION RELATIONSHIP 67-09 M17-77721
RHENIUM, PHYSICAL PROPERTIES
SUBLIMATION RATES, VAPOR PRESSURE AND HEATS OF SUBLIMATION OF RHENIUM, RHODIUM, PALLADIUM AND TITANIUM 67-09 M15-77835
MAGNETOACOUSTIC STUDY OF THE RHENIUM FERMI SURFACE 67-11 M15-81385

RHENIUM, REACTIONS /CHEMICAL/
INVESTIGATION OF ATTACK OF PURE RHENIUM AND TUNGSTEN BY MOLTEN LANTHANUM AND CERIUM 67-02 M14-62285
THE INTERACTION OF NITROGEN WITH RHENIUM 67-08 M14-75603
POSITIVE AND NEGATIVE SELF-SURFACE IONIZATION OF TUNGSTEN AND RHENIUM 67-09 M16-76659
SURFACE IONIZATION. PT. 1. DESORPTION OF U PLUS IONS FROM W AND RE SURFACES 67-10 M14-78876
RHENIUM, REFINING
THE REOCL4-WOCL4 SYSTEM AND THE PURIFICATION OF RHENIUM BY RECTIFYING ITS OXYTETRA-CHLORIDE 67-11 M03-81177
RHENIUM, SOLUBILITY
THE SOLUBILITIES OF CARBON, TANTALUM, TUNGSTEN AND RHENIUM IN LIQUID PLUTONIUM 67-06 M15-70890
RHENIUM, SURFACE PROPERTIES
NITROGEN ON RHENIUM OBSERVED WITH THE FIELD EMISSION MICROSCOPE 67-04 M14-67742
RHENIUM, TERNARY SYSTEMS
PHASE EQUILIBRIUM IN THE HF-RE-C TERNARY SYSTEM 67-03 M13-65794
THE RHENIUM-CHROMIUM-CARBON SYSTEM 67-04 M13-67341
THE TERNARY SYSTEM RE-FE-B 67-04 M16-66909
TERNARY SYSTEMS NIOBIUM-RHENIUM-CARBON AND TANTALUM-RHENIUM-CARBON 67-08 M13-74309
STUDY OF THE W-TA-RE SYSTEM BY THE DIFFUSION LAYER METHOD 67-11 M13-81174
RHENIUM, THERMAL PROPERTIES
THERMOPHYSICAL PROPERTIES OF TANTALUM, TUNGSTEN, RHENIUM, AND THEIR ALLOYS IN THE TEMPERATURE RANGE 1500 TO 3000 K 67-10 M15-79942
HEAT CONDUCTIVITIES BELOW 1 K. PT. 2 67-12 M15-83401
RHENIUM, THERMOCOUPLES
CONTINUOUS MEASUREMENT OF THE BATH TEMPERATURE IN OXYGEN CONVERTERS AND DATA DERIVED WITH RESPECT TO THE MELTING PROCESS 67-06 M04-70977
RHENIUM, THIN FILMS
RHENIUM AND RHENIUM-TUNGSTEN DEPOSITION BY THERMOCHEMICAL REDUCTION OF THE HEXAFLUORIDES-A PRELIMINARY STUDY 67-06 M12-70600
RHENIUM, TRANSPORT PROPERTIES
THERMIONIC EMISSION FROM RHENIUM 67-05 M16-68399
NOTE ON THE FIELD EMISSION MICROSCOPIC OBSERVATION OF DECOMPOSITION OF HYDRAZINE ON RHENIUM 67-09 M16-77018
RHENIUM, WEAR
FRICTION AND WEAR PROPERTIES OF RHENIUM 67-10 M17-79111
RHENIUM, X RAY ANALYSIS
RESEARCH ON RE3AS7 67-04 M13-66167
RHENIUM BASE ALLOYS, CRYSTAL LATTICES
LATTICE PARAMETERS OF SOME H. C. P. BINARY ALLOYS OF RHENIUM AND OSMIUM-- RE-W, RE-IR, RE-PT, OS-IR, OS-PT 67-05 M13-68222
RHENIUM BASE ALLOYS, MECHANICAL PROPERTIES
EFFECT OF ALLOYING ELEMENTS ON THE FORMABILITY OF CAST RE 67-05 M17-68978
DYNAMIC STRENGTH OF TENSION MEMBERS --EXTENDERS-- MADE OF MR47-VP MO-RE ALLOY 67-12 M17-81994
RHENIUM BASE ALLOYS, PHASE TRANSFORMATIONS
ALLOY PHASES IN W-RE AND MO-RE ALLOYS AT LOW TEMPERATURE 67-10 M14-78674
RHENIUM BASE ALLOYS, PHYSICAL PROPERTIES
WORK FUNCTION OF W-HF, TA-HF, NB-HF, RE-HF, RE-ZR, W-RE ALLOYS 67-02 M15-59929
WORK FUNCTION OF ALLOYS W-HF, TA-HF, NB-HF, RE-HF, RE-ZR AND W-RE 67-07 M15-72584
RHENIUM BASE ALLOYS, SUPERCONDUCTORS
MAGNETIC PROPERTIES OF SUPERCONDUCTING MO-RE ALLOYS 67-04 M16-68140
RHENIUM COMPOUNDS, BENEFICIATION
BEHAVIOR OF RHENIUM MINERALS DURING GRINDING AND FLOTATION 67-05 M02-69527
RHENIUM COMPOUNDS, PHASES /STATE OF MATTER/
THE REOCL4-WOCL4 SYSTEM AND THE PURIFICATION OF RHENIUM BY RECTIFYING ITS OXYTETRA-CHLORIDE 67-11 M03-81177
RHEOLOGICAL PROPERTIES
SEE ALSO VISCOELASTICITY
VISCOSITY
INVESTIGATION OF THE RHEOLOGICAL PROPERTIES OF NEW TYPE REINFORCEMENT FROM STEEL OF THE A-IV CLASS 67-09 M17-76963
THE DEVELOPMENT OF A RHEOLOGICAL TEST INSTALLATION FOR DETERMINATION OF THE VISCOSITY OF METALLIC MELTS AND MEASUREMENT OF LIQUID FE, CO AND NI 67-10 M15-78341
RHO PHASE
MAGNETIC PROPERTIES ON SIGMA-PHASE OF FE-V ALLOYS 67-07 M15-73993
RHODIUM, ALLOYING ADDITIVE
MAGNETIC PROPERTIES OF THE ALLOY FE-RH IN STRONG MAGNETIC FIELDS 67-09 M15-76784
RHODIUM, BINARY SYSTEMS
THE TITANIUM-RHODIUM ALLOYS 67-02 M13-61890
THE RHODIUM/SELENIUM SYSTEM 67-04 M13-68150
INTERMEDIATE PHASES IN TITANIUM ALLOYS WITH IRIDIUM AND RHODIUM 67-05 M13-69277
RHODIUM, CHEMICAL ANALYSIS
SUGGESTED METHOD FOR SPECTROCHEMICAL ANALYSIS OF RHODIUM BY THE PELLET TECHNIQUE 67-06 M19-70862
RHODIUM, COATINGS
PRECIOUS METAL PLATING BATHS AND THEIR PRACTICAL APPLICATIONS 67-01 M12-58303
SCIENCE FOR ELECTROPLATERS. PT. 3. RHODIUM BATHS 67-02 M12-59047
SCIENCE FOR ELECTROPLATERS. PT. 3. RHODIUM BATHS 67-02 M12-61132
DEFINITION OF ELECTROLYTES AND ELECTRODEPOSITS 67-02 M12-62288
SCIENCE FOR ELECTROPLATERS. PT. 114. RUTHENIUM-RHENIUM-IRIDIUM-INDIUM 67-05 M12-68493
ELECTRODEPOSITION OF RHODIUM AND RUTHENIUM FOR SLIP-RING SURFACES 67-05 M12-68826
INTERNAL STRESS IN ELECTRODEPOSITS 67-07 M17-73626
AN APPARATUS FOR HEAVY RHODIUM PLATING 67-09 M12-77000
APPLICATIONS OF METAL FINISHING IN PRINTED CIRCUITS. PT. 2 67-10 M12-79003
RHODIUM, CRYSTAL LATTICES
DEFORMATION STACKING FAULTS IN RHODIUM AND IRIDIUM 67-02 M13-61945
RHODIUM, ELECTRICAL PROPERTIES
THE THERMAL CONDUCTIVITY AND ELECTRICAL RESISTIVITY OF POLYCRYSTALLINE METALS OF THE PLATINUM GROUP AND OF SINGLE CRYSTALS OF RUTHENIUM 67-05 M15-68210
RHODIUM, EXTRACTION
EXTRACTION OF RHODIUM BY AMMONIA-BASE QUATERNARY CHLORIDES 67-09 M03-77119
RHODIUM, INTERMETALLICS
LAVES PHASES OF THE SCANDIUM GROUP ELEMENTS WITH RUTHENIUM, RHODIUM, OSMIUM, IRIDIUM, AND PLATINUM 67-02 M13-59443
EQUIATOMIC BINARY COMPOUNDS OF ZR WITH TRANSITION ELEMENTS RU, RH AND PD 67-07 M14-72655
EFFECTS OF MECHANICAL AND THERMAL TREATMENT ON THE STRUCTURE AND MAGNETIC TRANSITIONS IN FERH 67-07 M15-73549
THE CRYSTAL STRUCTURE OF HEXAGONAL RH2AL3 67-09 M13-76383
THE CRYSTAL STRUCTURES OF RH10GA17 AND IR3GA5 67-09 M13-77301
RHODIUM, MAGNETIC PROPERTIES
LOW-TEMPERATURE SUSCEPTIBILITIES OF RH AND IR WITH FE IMPURITIES 67-07 M15-73551
RHODIUM, MICROSTRUCTURE
FIELD ION MICROSCOPY OF THE PLATINUM METALS 67-07 M13-72878
OXYGEN FACETING OF RHODIUM --210-- AND --100-- SURFACES 67-11 M13-81592
RHODIUM, PHYSICAL PROPERTIES
SUBLIMATION RATES, VAPOR PRESSURE AND HEATS OF SUBLIMATION OF RHENIUM, RHODIUM, PALLADIUM AND TITANIUM 67-09 M15-77835
RHODIUM, REACTIONS /CHEMICAL/
DISSOLUTION OF METALS BY AC ELECTROLYSIS 67-01 M14-58583
RHODIUM, REFINING
APPLICATION OF SOLVENT EXTRACTION TO THE REFINING OF PRECIOUS METALS. PT. 1. PURIFICATION OF RHODIUM 67-11 M03-80310
RHODIUM, SURFACE PROPERTIES
CHEMISORBED OXYGEN STRUCTURES ON THE RHODIUM --110-- SURFACE 67-02 M14-61075
RHODIUM, TEMPERATURE MEASURING INSTRUMENTS
QUALITY AND THERMOELECTRIC DEVIATION OF EXISTING THERMOCOUPLES 67-01 M15-57612
RHODIUM, TERNARY SYSTEMS
THE WETTING OF PLATINUM AND ITS ALLOYS BY GLASS. PT. 3. MICROSTRUCTURE AND MECHANICAL PROPERTIES

RHODIUM
OF GOLD-RHODIUM-PLATINUM ALLOYS 67-05 M14-69419
INTERMEDIATE PHASES IN ALLOYS OF TITANIUM WITH IRIDIUM, RHODIUM, AND OSMIUM 67-07 M13-73277
RHODIUM BASE ALLOYS, CRYSTAL LATTICES
LATTICE PARAMETER CHANGE OF FE-RH ALLOYS DUE TO ANTIFERROMAGNETIC-FERROMAGNETIC TRANSFORMATION 67-07 M15-72959
RHODIUM BASE ALLOYS, ELECTRICAL PROPERTIES
PHENOMENOLOGICAL THEORY OF THE RESISTIVITY AND SUSCEPTIBILITY OF DILUTE RH-FE AND IR-FE ALLOYS 67-11 M15-80184
RHODIUM BASE ALLOYS, MAGNETIC PROPERTIES
MAGNETOSTRICTION OF THE METAMAGNETIC IRON-RHODIUM ALLOY 67-03 M15-65305
RHODIUM BASE ALLOYS, OXIDATION
HIGH TEMPERATURE BEHAVIOR OF IRIDIUM-RHODIUM ALLOYS 67-07 M18-72544
RHODIUM BASE ALLOYS, PHASE TRANSFORMATIONS
KINETICS OF THE ISOMORPHIC TRANSFORMATION IN IRON-RHODIUM ALLOYS 67-12 M14-82418
RHODIUM COMPOUNDS, CRYSTAL LATTICES
CRYSTAL STRUCTURE OF RHHG2 67-09 M13-77571
RIFLES /ARTILLERY/
SEE GUNS
RIFLING
SEE GROOVING
RIGS /DRILLING/
SEE DRILLING RIGS
RIMMING STEELS
MANUFACTURING MEDIUM CARBON STEEL FROM HIGH PHOSPHORUS PIG IRON IN THE CONVERTER USING POWDERED LIME 67-04 M04-66204
RIMMING STEELS, CASTING
ON THE CONTROL OF SOLID SKIN IN A RIMMED STEEL INGOT 67-02 M04-58843
FUNDAMENTAL PROBLEMS AND THE PRACTICE OF THE CONTINUOUS CASTING OF WIDE SLABS 67-02 M04-59136
INVESTIGATION OF EFFICIENT METHODS OF CASTING DIFFERENT GRADE STEELS 67-02 M04-59849
TRENDS IN CONTINUOUS CASTING 67-03 M04-65483
QUALITY OF MECHANICALLY CAPPED STEELS 67-04 M04-66018
THE TECHNOLOGICAL FEATURES OF THE HIGH-SPEED SIPHON TEEMING OF RIMMING AND SEMI-KILLED STEEL INGOTS 67-04 M04-67230
THE PROBLEM OF PRODUCING MECHANICALLY HOT TOPPED STEEL 67-05 M04-69896
KINETICS OF BOILING AND CRYSTALLIZATION OF LOW CARBON RIMMING STEEL DURING CONTINUOUS CASTING 67-06 M04-70111
THE HARMFUL EFFECT OF THE QUANTITY OF OXYGEN IN THE BATH ON THE NATURE OF STEEL CASTING 67-06 M04-70113
IMPROVED CAPPING OF RIMMING STEEL WITH ALUMINUM 67-06 M04-70908
HEAT TRANSFER IN CONTINUOUS CASTING MOLDS 67-06 M04-71329
EFFECT OF THE POURING SEQUENCE ON THE STRUCTURE OF RIMMED-STEEL INGOTS 67-07 M06-73264
IMPROVING THE QUALITY OF AN INGOT OF RIMMED STEEL 67-08 M04-76268
INVESTIGATIONS INTO THE SIGNIFICANCE OF OXYGEN TRANSFER DURING TAPPING, CASTING, EFFERVESCENCE, AND SOLIDIFICATION OF OH RIMMING STEEL 67-09 M04-77230
IMPROVING THE QUALITY OF RIMMING STEEL INGOTS 67-10 M04-79261
PRODUCTION TECHNOLOGY FOR CHEMICALLY CAPPED STEEL IN BOTTOM-POURED LARGE INGOTS 67-10 M04-79816
TRIAL CONTINUOUS CASTING OF RIMMING STEEL INTO SQUARE NARROW BILLETS 67-11 M04-81446
TEEMING RIMMING STEEL INTO CLOSED BOTTLE MOLDS 67-12 M04-81791
RIMMING STEELS, CHEMICAL ANALYSIS
IDENTIFICATION OF NONMETALLIC INCLUSIONS IN STEEL BY POLISHED THIN SECTION AND X-RAY MICROANALYSER 67-02 M19-58942
IDENTIFICATION OF NONMETALLIC INCLUSIONS IN STEELS BY THE POLISHED THIN SECTION AND X-RAY MICROANALYSER 67-02 M19-59155
OXYGEN ANALYSIS AS A NONAID TO RIMMING STEEL PRODUCTION 67-03 M19-65464
STUDY OF MANGANESE BURN-OUT IN CASTING RIMMING STEEL, USING MN52 67-07 M04-73039
THE CHEMICAL ISOLATION OF OXIDE INCLUSIONS IN RIMMING STEELS 67-07 M19-72709
THE PROBLEMS OF HIGH OXYGEN CONTENT IN LIQUID STEEL AND POSSIBLE METHODS OF CONTROL 67-07 M19-73100
OXYGEN CONTENT IN LOW-CARBON RIMMED STEEL 67-10 M19-79321
CHANGE IN CHEMICAL COMPOSITION OF RIMMING CONVERTER STEEL IN THE LADLE ON POURING 67-11 M04-81443
RIMMING STEELS, COATING
TITANIUM-CARBIDE COATINGS ON STEEL 67-04 M12-67965
MECHANICAL PROPERTIES OF CHROMIUM DIFFUSION COATINGS 67-09 M12-76435
RIMMING STEELS, CORROSION
THE BEHAVIOR OF PLAIN CARBON CONSTRUCTION STEELS AND FILLER MATERIALS WHEN SUBJECTED TO SAND EROSION AND CAVITATION IN HYDROTURBINE PLANTS 67-02 M18-59037
ATMOSPHERIC CORROSION TEST ALONG DOWN-STREAM OF THE TONE RIVER. PT. 1 67-08 M18-75804
EFFECT OF STRAIN HARDENING ON THE PROPERTIES OF 08 RIMMED STEEL 67-11 M18-80592
RIMMING STEELS, CRYSTAL LATTICES
ON THE COLD ROLLING AND ANNEALING TEXTURES OF MILD STEEL SHEETS 67-01 M14-58737
INFLUENCE OF ROLLING TEMPERATURE ON TEXTURES IN RIMMING STEEL 67-08 M13-75814
RIMMING STEELS, CRYSTALLIZATION
RECRYSTALLIZATION AND GRAIN STRUCTURE IN RIMMED AND ALUMINUM-KILLED LOW-CARBON STEEL 67-04 M14-66930
RIMMING STEELS, DEEP DRAWING
CALCULATING STRESSES IN DRAWING IN A RADIUS DIE 67-01 M07-57245
RIMMING STEELS, EXTRUSION
HOW TO SELECT STEELS FOR COLD EXTRUSION 67-08 M07-74726
RIMMING STEELS, FORGING
FORGING METALLURGY--STEEL. PT. 4. COLD FORGING 67-05 M07-69555
RIMMING STEELS, HEAT TREATMENT
ACCELERATED COOLING AFTER COIL ANNEALING 67-01 M10-58492
THE POSSIBLE FIXATION OF NITROGEN BY CHROMIUM AND VANADIUM DEEP DRAWING RIMMING STEELS TO REDUCE THE SUSCEPTIBILITY TO AGING 67-02 M10-59109
EFFECT OF HEATING RATE ON THE ELEVATION OF THE CRITICAL TEMPERATURES OF LOW-CARBON MILD STEEL 67-04 M14-67193
QUENCH-AGING AT 240 C. IN A LOW-CARBON STEEL AFTER RAPID ANNEALING 67-11 M10-81143
OPTIMIZATION OF THE SOAKING PIT PROCESS 67-12 M10-83171
RIMMING STEELS, INGOTS
REPORT OF OXYGEN DISTRIBUTION IN INGOTS OF RIMMED STEEL 67-02 M04-60654
RIMMING STEELS, MECHANICAL PROPERTIES
METALLURGICAL IMPROVEMENT OF THE QUALITY OF COLD ROLLED D. D. Q. RIMMED STEEL SHEET 67-02 M17-58845
INTERNAL FRICTION IN N-ALPHA FE SOLID SOLUTIONS WITH DIFFERENT PURITY AND GRAIN SIZE 67-02 M17-61599
EFFECT OF DEGREE OF DEOXIDATION AND THICKNESS OF ROLLED PRODUCT ON THE MECHANICAL PROPERTIES OF LOW-CARBON STEEL AND BRITTLE FRACTURE IN ELEMENTS OF METAL STRUCTURES 67-05 M17-68555
PROPERTIES OF OXYGEN-CONVERTER VKST. 3KP STEEL 67-05 M17-69042
EFFECTS OF THE CHEMICAL COMPOSITION OF GRADE 15KP STEEL, AND THE ROLLING TECHNOLOGY, ON THE MECHANICAL PROPERTIES AND MICROSTRUCTURE OF HOT ROLLED SHEET 67-06 M17-70218
BRITTLE FRACTURES IN SERVICE 67-06 M17-70561
METALLURGICAL IMPROVEMENTS IN THE QUALITY OF COLD ROLLED RIMMED STEEL SHEET IN DEEP-DRAWING QUALITY 67-06 M17-72293
EFFECT OF TWO-STAGE COLD ROLLING ON THE DEEP DRAWABILITY OF LOW-CARBON RIMMED STEEL SHEET 67-07 M17-72443
EFFECT OF DEGREE OF DEOXIDATION AND THICKNESS OF ROLLED PRODUCT ON MECHANICAL PROPERTIES OF LOW CARBON STEEL AND THE OCCURRENCE OF BRITTLE FRACTURE IN METALLIC STRUCTURES 67-07 M17-72466
ON STRESS INTENSIFICATIONS IN SPECIMENS OF CHARPY GEOMETRY PRIOR TO GENERAL YIELD 67-07 M17-72881
MECHANICAL PROPERTIES OF STRUCTURAL STEELS

PRODUCED FROM HIGH-PHOSPHORUS IRON IN THE BASIC OXYGEN FURNACE 67-07 M17-73012
EFFECT OF COLD DEFORMATION ON THE MECHANICAL PROPERTIES OF RIMMING REINFORCING STEEL BARS FOLLOWING ARTIFICIAL AGING 67-09 M17-76702
THE TENDENCY TO BRITTLE FRACTURE OF COLD-WORKED STEEL AGED BY THE HEAT FROM WELDING 67-09 M17-77816
EFFECT OF MICRO-VOIDS AND MANGANESE SULPHIDE INCLUSIONS IN STEEL ON HYDROGEN EVOLUTION AND EMBRITTLEMENT 67-09 M17-78154
THE TESTING OF COLD ROLLED SHEET BY FUSION-CUP TEST ACCORDING TO DIN 50152 67-09 M17-78190
INFLUENCE OF PHOSPHORUS AND COPPER ON THE ANISOTROPY AND DRAWABIILTY OF EXTRAMILD RIMMED STEEL 67-12 M17-83229

RIMMING STEELS, MELTING
EFFECT OF RIMMING ACTION ON LARGE SLAG INCLUSIONS IN THE BOTTOM ZONE OF RIMMED-STEEL INGOTS 67-06 M04-72204

RIMMING STEELS, METAL WORKING
RESEARCH ON THE FORMABILITY AND TESTING METHOD OF DEEP DRAWING STEEL SHEET 67-03 M08-65818
TESTING THE COLD WORKABILITY OF MILD STEEL THIN SHEETS 67-04 M17-67210
EFFECT OF STRUCTURALLY-FREE CEMENTITE ON THE PROPERTIES OF COLD ROLLED MILD STEEL SHEET 67-05 M07-69439
COMBINATION DRAWING OF LIGHT-GAGE MATERIAL 67-05 M07-69440
INFLUENCE OF ADDITION ELEMENTS AND SPECIAL TREATMENTS ON THE ANISOTROPY AND DRAWABILITY OF EXTRA-SOFT RIMMING STEELS 67-06 M07-72018
TORSION TESTING THE HOT WORKABILITY OF STEELS 67-06 M17-70980
SURFACE QUALITY OF A COLD ROLLED SHEET OF RIMMED STEEL 67-09 M04-77628

RIMMING STEELS, MICROSTRUCTURE
EFFECT OF CRYSTALLOGRAPHIC TEXTURE ON PRESS FORMING OF EXTRA-LOW-CARBON RIMMED STEEL SHEET 67-01 M17-58240
LIQUATION IN LARGE RIMMING STEEL INGOTS 67-06 M04-70920
EFFECT OF HEATING RATE ON RECRYSTALLIZATION AND ANISOTROPY IN ALUMINIUM-KILLED AND RIMMED SHEET STEELS 67-06 M14-71337
RELATION BETWEEN THE DISTRIBUTION OF TINY INCLUSIONS IN RIMMED MILD STEEL SHEET AND THE RECRYSTALLIZED GRAIN SIZE 67-09 M13-78244
GRAIN GROWTH OF RIMMED MILD STEEL SHEET UNDER THE DISTRIBUTION OF SPHERICAL INCLUSIONS OF DIFFERENT SIZES 67-09 M14-78243

RIMMING STEELS, NONDESTRUCTIVE TESTING
ATTENUATION OF LAMB WAVES AT ULTRASONIC FREQUENCIES IN STEEL AT HIGH TEMPERATURES 67-02 M19-60260
A METALLURGICAL ASSESSMENT OF ULTRASONIC BILLET TESTING 67-04 M19-66656
ESTIMATION OF THE SKIN THICKNESS OF RIMMED STEEL INGOTS 67-06 M04-72289
RELATIONSHIP BETWEEN ULTRASONIC DEFECT ECHOES FROM LOW-CARBON RIMMED STEEL BILLETS AND THE INTERNAL DEFECTS OF SEAMLESS TUBE. PT. 1. A STUDY OF THE PROPERTIES OF STEEL-TUBE BLANKS AND THE DEFECTS IN FINISHED STEEL TUBE 67-06 M19-72286
APPLICATION OF ULTRASONICS IN THE INSPECTION OF RIMMED-STEEL SLAB INGOTS FOR CLEANNESS 67-07 M19-72890

RIMMING STEELS, OXIDATION
ON THE EFFECT OF COLD WORK ON THE OXIDATION OF IRON FROM 400 TO 650 C 67-11 M18-80715
THE AIR OXIDATION OF LOW-CARBON RIMMING STEEL DURING THE RIMMING PERIOD 67-12 M04-81743

RIMMING STEELS, POURING
CONTROLLING THE TEMPERATURE OF THE MOLTEN STEEL DURING TEEMING 67-04 M04-67870
TEMPERATURE CYCLES OF INGOT MOLDS DURING USE. PT. 1. DETERMINATION OF TEMPERATURE CYCLES OF INGOT MOLDS MOUNTED ON BOGIES 67-06 M04-71823

RIMMING STEELS, REACTIONS /CHEMICAL/
ON THE THEORY OF DEOXIDIZING STEEL WITH MANGANESE 67-04 M04-66874
CONTROL OF THE DEOXIDATION OF RIMMING STEEL BASED ON THE BATH COMPOSITION BEFORE THE TAP 67-05 M04-69075

RIMMING STEELS, REFINING
BRIQUETS AS A SLAGFORMING MATERIAL IN STEEL PRODUCTION 67-04 M04-67608
INVESTIGATIONS OF THE SOLIDIFICATION OF RIMMING STEEL 67-07 M04-72895
DEOXIDIZING RIMMING CONVERTER STEEL 67-10 M04-79818

RIMMING STEELS, ROLLING
THE APPLICATION OF LARGE RIMMING STEEL INGOT TO COLD ROLLED DEEP DRAWING STEEL SHEET 67-08 M07-75802
POSSIBILITY OF SIMULATION OF HOT STRIP MILL PRACTICE OF STEEL BY COUNTER-BLOW FORGING 67-09 M07-77258
SURFACE FINISH ON COLD-ROLLED RIMMING STEEL SHEET 67-11 M04-80916

RIMMING STEELS, SHEET /METAL/
ON TESTING DRAW PROPERTIES OF THIN-SHEET METALS ON PTL-10 AND MTL-10 TESTERS 67-01 M17-57246
REDUCING DEFECTS IN STEEL SHEETS 67-06 M07-72253

RIMMING STEELS, SOAKING
ELECTROTHERMAL MODELING OF THE PROCESS OF HARDENING AND HEATING RIMMED STEEL INGOTS IN SOAKING PITS 67-04 M04-67621

RIMMING STEELS, STEEL MAKING
CONTINUOUS CASTING--THE PRESENT STATE OF THE ART 67-01 M04-58488
CAPPED RIMMING STEELS--THEORY AND PRACTICE 67-02 M04-61655
AN EVALUATION OF THE EFFECT ON STEELMAKING ON RIMMED-STEEL CLEANLINESS 67-03 M04-65535
A PRACTICAL METHOD OF CONTROLLING MANGANESE FADING IN OPEN HEARTH RIMMED STEEL 67-03 M04-65536
SINGULARITIES OF MELTING STEEL IN A DUPLEX FURNACE 67-04 M04-66612
THE QUALITY OF SLABS FROM RIMMING STEEL TEEMED AT HIGH SPEED 67-06 M04-70196
THE MECHANISM OF THE RIMMING OF METAL DURING THE VACUUM TREATMENT OF BALL BEARING STEEL IN THE LADLE 67-06 M04-70271
EFFECT OF VARIOUS FACTORS ON THE MANGANESE CONTENT OF THE METAL BATH IN THE BASIC OXYGEN LD PROCESS 67-06 M04-72203
IRON FOR STEELMAKING AT APPLEBY-FRODINGHAM 67-07 M04-72412
CHEMCIAL SEALING OF STEEL INGOTS 67-07 M04-73011
POURING HIGHER CARBON RIMMING STEELS WITH THE ADDITION OF OXYGEN TO THE METAL STREAM 67-07 M04-73265

RIMMING STEELS, SURFACE FINISHING
HOT METAL SCARFING MACHINE INCORPORATED IN PRODUCTION LINE OF BLOOMING MILL 67-04 M07-66213

RIMMING STEELS, TEMPERATURE CONTROL
TEMPERATURE CYCLES OF INGOT MOLDS DURING USE. PT. 2. DETERMINATION OF TEMPERATURE CYCLES OF AN INGOT MOLD IN A CASTING PIT 67-08 M19-74737

RIMMING STEELS, WELDING
GAS SHIELDED ARC WELDING WITH SOLID FLUX-CORED TUBULAR WIRE 67-03 M11-65446
SPOT WELDING GALVANIZED STEEL 67-09 M11-77659
SPECIAL WELDING COMPOUND ADVANCES QUALITY 67-10 M11-79202

RING GEARS, SURFACE FINISHING
FAST WAY TO FINISH RING GEARS 67-05 M12-69580
MECHANIZING RING GEAR CORRECTION 67-07 M08-73446

RINGS
SEE ALSO PISTON RINGS
SLIP RINGS

RINGS, EXTRUSION
HOT BACKWARD EXTRUSION OF SLEEVES WITH A THIN BOTTOM BY CYLINDRICAL AND TAPERED PUNCHES 67-07 M08-73950

RINGS, MACHINING
STATE OF THE SURFACE LAYER OF QUENCHED SHKH15 STEEL AFTER TURNING 67-07 M08-74288

RINGS, POWDER METALLURGY
POWDER COMPOSITE SPINNING AND DOUBLING RINGS 67-08 M09-74916

RISERING
SEE GATING AND RISERING

RISERS, INSULATION
INSULATING RISER SLEEVES OFFER COST SAVINGS 67-07 M06-72823

RIVETED JOINTS, MECHANICAL PROPERTIES
THE TECHNOLOGY OF THE ADHESIVE BONDING OF METALS 67-06 M18-71554

RIVETING
CO2 SHIELDED PLUG WELDING OF 45 STEEL 67-02 M11-60008

RIVETS
ALUMINUM KILLED STEEL IMPROVES RIVET FORMABILITY AND QUALITY 67-06 M17-71138
RIVETING AND OTHER MECHANICAL FASTENING 67-08 M20-74848

ROASTERS
SEE FLUIDIZED BED ROASTERS

ROASTING
SEE ALSO FLUIDIZED BED ROASTERS
FLUIDIZED BED ROASTING
MAGNETIC ROASTING
INDUSTRIAL TECHNOLOGY FOR ROASTING AND MAGNETIC BENEFICIATION OF KERCH TOBACCO ORES 67-02 M02-59697
PELLETIZING AND ROASTING SULFIDIC COPPER-NICKEL CONCENTRATE MIXED WITH FINE ORE 67-02 M02-62044
MAGNETIC SEPARATION OF NICKEL FROM NICKEL CONTAINING IRON ORE, TREATED BY SULFIDIZING AND REDUCING ROASTING 67-02 M03-58937
USE OF CARNALLITE IN CHLORINATION ROASTING 67-02 M03-59595
VOLATILIZING ROASTING OF LEAN OXIDIZED-SULFIDE ANTIMONY ORE BY AN AIR SUCTION METHOD 67-02 M03-59843
REDUCED PRESSURE SINTERING OF MGO AS HIGH FREQUENCY INSULATOR. PT. 2 67-02 M05-60161
HEAT TREATMENT OF URANIUM AND URANIUM-THORIUM OXIDES PRODUCED BY SOL-GEL PROCESS 67-02 M10-59413
FLASH SMELTING OF LEAD CONCENTRATES 67-03 M03-65006
BLAST-FURNACE TRIALS ON THE SMELTING OF PREPARED BAKAL SIDERITES PRODUCING HIGH-MAGNESIA SLAGS 67-04 M02-66203
THERMAL BENEFICIATION OF LOW GRADE CHROME ORE FROM VAGDA DEPOSITS, RATNAGIRI DISTRICT, MAHARASHTRA 67-04 M02-66307
EXTRACTION OF EUXENITE METAL VALUES BY FUSION WITH AMMONIUM SULFATE OR AMMONIUM BISULFATE 67-04 M03-67031
CHEMICAL CONVERSION OF MANGANESE ORES 67-04 M03-67160
SOME CHARACTERISTICS OF BRAZILIAN IRON ORES AND AGGLOMERATES 67-04 M03-68038
MAGNESIA PRECURSOR AND SINTERING STUDY 67-04 M05-67325
THE CALCINATION OF TWO BEO POWDERS 67-04 M14-66241
ON EXTRACTION OF NICKEL FROM LATERITES AND GARNIERITE BY SEGREGATION ROASTING PROCESS 67-05 M02-69362
SINTER-ROASTING OF COPPER ELECTROLYTIC SLIMES WITH SODA IN A SHAFT FURNACE 67-05 M03-68228
STUDY OF THE PROCESS OF DEGASSING CARBON BLACK-PITCH COMPOSITIONS DURING ROASTING 67-05 M03-69536
ROASTING AND RECRYSTALLIZATION OF MAGNESIUM OXIDE 67-07 M05-72616
ROASTING BORON NITRIDE DURING HOT PRESSING AND ITS PROPERTIES AT HIGH TEMPERATURE 67-07 M05-72617
AUTOMATIC PELLET CHARGE CONTROL FOR ROASTING PLANT 67-08 M02-74895
ON THE PROBLEM OF TRANSFORMATIONS TAKING PLACE WITH OXIDIZED LEAD MINERALS DURING THEIR SULFIDIZING ROASTING 67-09 M02-76820
THE OXIDATION CONDITIONS OF GOLD CONTAINING ARSENICAL PYRITES 67-09 M02-76948
ROAST AND MAGNETIC BENEFICIATION OF CHROMITE ORES IN ENLARGED FACILITIES 67-09 M02-77059
SULFUR REMOVAL IN ROASTING MAGNETITE IRON ORES AND CONCENTRATES CONTAINING MAGNESIAL GANGUE. PT. 7 67-09 M02-77358
OPTIMUM CONDITIONS FOR ROASTING MNCO3 ORES FROM BULGARIAN SITE AND THE MINERALOGICAL COMPOSITION OF MANGANESE SINTERS 67-09 M02-77621
ROASTING IN EXTRACTIVE METALLURGY--A THERMODYNAMIC AND KINETIC REVIEW 67-10 M02-79946
OXIDATION OF THE MAIN COMPONENTS OF A COPPER CHARGE 67-10 M03-80045
OPTIMUM CONDITIONS FOR SINTERING RHODOCHROSITE ORES OF THE OBROCHISHCHE DEPOSITS IN BULGARIA AND THE MINERALOGICAL COMPOSITION OF MANGANESE SINTERS 67-11 M02-80909
ELIMINATION OF LEAD AND CADMIUM BY THE FLUID COLUMN PROCESS AT SHERBROOKE METALLURGICAL CO 67-11 M02-81148
HOW ROASTING CONDITIONS AND SUBSTANCE COMPOSITION AFFECT THE MAGNETIC PROPERTIES OF ROAST BAKAL FERROCARBONATE ORE 67-11 M02-81307
INVESTIGATION OF CONDITIONS OF ROASTING A COPPER-PYRITE CONCENTRATE CONTAINING AN INCREASED AMOUNT OF RARE METALS 67-11 M03-81617
CHARACTERISTICS OF BRAZILIAN IRON ORES AND THEIR AGGLOMERATES 67-12 M02-83255
HEAT CONSUMPTION IN ALUMINUM OXIDE CALCINING KILN 67-12 M03-82831

ROCKET CASES
INTRODUCTION TO FRACTURE TOUGHNESS 67-06 M17-72185
ELECTROFORMED NICKEL MOTOR CASES CUT COST 67-07 M12-74007
ONE PIECE ROCKET CASES BY ELECTROFORMING 67-10 M12-78658

ROCKET CASES, DESIGN
DESIGN CONSIDERATIONS IN MATERIAL SELECTION FOR ROCKET-MOTOR CASES 67-09 M20-78270

ROCKET COMPONENTS
SEE ALSO ROCKET CASES
ROCKET ENGINES
ROCKET NOZZLES
MACHINING OPERATIONS ON ROCKER SHAFT COMPONENTS 67-07 M08-73371

ROCKET COMPONENTS, CASTING
SUPER INVESTMENT CASTINGS FOR ROCKETS 67-09 M06-78172

ROCKET COMPONENTS, MACHINING
ROCKET WARHEADS PROVIDE NEW WORK FOR ONTARIO PLANT 67-05 M08-68805

ROCKET COMPONENTS, MATERIALS
TENSILE AND FATIGUE PROPERTIES OF ALLOY 718 AT CRYOGENIC TEMPERATURES 67-11 M17-80520

ROCKET COMPONENTS, NONDESTRUCTIVE TESTING
QUALITY EVALUATION OF MISSILE STRUCTURE SPOT-WELDED JOINTS 67-05 M19-69087

ROCKET ENGINES
SEE ALSO BOOSTER ROCKETS
TO MUFFLE A NUCLEAR ROCKET ENGINE.. WELDED STAINLESS 67-04 M11-66250
STEELS FOR HOUSING SOLID FUEL ROCKET MOTORS 67-09 M17-77191

ROCKET ENGINES, MATERIALS
REVIEW OF ALLOYS AND FABRICATING METHODS USED FOR TACTICAL MISSILE MOTOR CASES 67-11 M20-80492

ROCKET ENGINES, NONDESTRUCTIVE TESTING
NONDESTRUCTIVE TESTING OF SPACE VEHICLE LIQUID PROPELLANT ROCKET ENGINES 67-06 M19-72094
NON-DESTRUCTIVE TESTING IN THE AEROSPACE INDUSTRY 67-09 M19-78278

ROCKET MOTORS
SEE ROCKET ENGINES

ROCKET NOZZLES
MULTILAYER REFRACTORY NOZZLES PRODUCED BY PLASMA-SPRAY PROCESS 67-06 M12-70015
AEROSPACE APPLICATIONS OF REFRACTORY METALS 67-06 M20-72074
WELDING OF THICK SECTIONS OF HASTELLOY X FOR THE PHOEBUS-2 NOZZLE 67-07 M11-74278

ROCKET NOZZLES, MATERIALS
PYROLYTIC MATERIALS 67-02 M14-60711

ROCKETS
SEE ALSO AIRCRAFT ROCKETS
BOOSTER ROCKETS
MAGNESIUM CASTING ALLOYS FOR AIRCRAFT STRUCTURES 67-06 M01-70671

ROCKWELL HARDNESS TESTS
FUNDAMENTALS OF ROCKWELL HARDNESS TESTING 67-07 M17-73794
MEASUREMENT AND PERFORMANCE OF ROCKWELL C DIAMOND INDENTERS 67-11 M17-80569

ROD MILLING
SEE GRINDING /COMMINUTION/

ROD MILLS /ROLLING/
DESIGN, CONSTRUCTION AND INITIAL PRODUCTION OF THE NO. 3 WIRE ROD MILL OF SUMITOMO METAL INDUSTRIES KOKURA STEEL WORKS 67-03 M07-65929
AUTOMATION OF BAR AND ROD MILLS 67-05 M20-69484
THE MANUFACTURE OF TRANSPOSED STRIP 67-07 M07-72802
NEW HIGHLY WEAR RESISTANT ALLOYS FOR ROLL GUIDE UNITS OF ROD MILLS 67-12 M07-81871

ROD MILLS /ROLLING/, AUTOMATION
LOOP CONTROL AUTOMATION ON TWO-THREAD LOOP TABLES OF A CONTINUOUS ROD MILL 67-12 M07-81869

RODS
SEE ALSO CONNECTING RODS

WELDING RODS
WIRE ROD

RODS, CRYSTAL GROWTH
A TECHNIQUE FOR GROWING SINGLE CRYSTALS OF AL-4 PER CENT CU OF A CHOSEN ORIENTATION 67-03 M14-65722

RODS, DRAWING
EXPERIMENTAL INVESTIGATION OF THE RATIO OF INDENTATION FORCE AND DRAWING FORCE IN GROOVING RODS 67-02 M07-60086

RODS, EXTRUSION
INFLUENCE OF THE STATE OF THE BILLETS ON THE PROPERTIES OF COLD PRESSED ALUMINUM ALLOY PRODUCTS 67-02 M08-59771
LOW-TEMPERATURE EXTRUSION OF REFRACTORY METALS 67-06 M07-70474
EXPERIMENTAL DETERMINATION OF CONTACT STRESSES IN PRESSING 67-07 M07-73949
DEPENDENCE OF THE PROPERTIES OF EXTRUDED SEMI-FINISHED PRODUCTS MADE FROM ALUMINUM ALLOYS ON THE STATE OF THE BILLETS 67-08 M07-76129
LOW-TEMPERATURE EXTRUSION OF REFRACTORY METALS 67-10 M07-79674
STRAIN DISTRIBUTION IN RODS MADE BY INVERSE HYDROSTATIC EXTRUSION 67-11 M07-81657
APPLICATION OF HOT PRESSING FOR MANUFACTURE OF ROUND PROFILES FROM HARD ALLOYS 67-12 M08-81794

RODS, FORMING
TRANSITION BETWEEN THEORY AND PRACTICE IN ULTRASONIC METAL DEFORMATION PROCESSING 67-03 M08-65812

RODS, HEAT TREATMENT
INVESTIGATION OF AN O-SHAPED RADIANT TUBE FOR BELL FURNACES 67-05 M10-68560
RESEARCH INTO AN O-SHAPED RADIANT TUBE FOR BELL-TYPE FURNACES 67-07 M10-72471
THERMAL HARDENING OF REINFORCING RODS AT THE MAKEEVKA METALLURGICAL WORKS 67-09 M10-76861

RODS, MAGNETIC PROPERTIES
EFFECT OF HYDROSTATIC PRESSURE ON THE CURIE TEMPERATURE OF NI AND CU-NI ALLOYS 67-05 M15-69763

RODS, MATERIALS TESTING
THE SUITABILITY OF THE R9500-1E MAGNETIC INDUCTION TESTING DEVICE FOR THE DETERMINATION OF SURFACE DECARBURIZATION IN STEEL RODS 67-03 M19-65571

RODS, MECHANICAL PROPERTIES
INTERNAL FRICTION PEAKS IN DEUTERON-IRRADIATED TUNGSTEN 67-04 M17-66056
EFFECT OF COLD WORKING ON THE RESISTANCE OF PEARLITIC STEEL TO PROLONGED EXPOSURE TO HIGH TEMPERATURES 67-04 M17-67970
INFLUENCE OF THE WORK IN FATIGUE CONDITIONS ON COLD SHORTNESS OF STEEL 67-06 M17-72309
EFFECTS ON THE COLD-BRITTLENESS OF STEEL OF WORKING UNDER CONDITIONS OF FATIGUE 67-11 M17-81581

RODS, METAL WORKING
COMMERCIAL PRODUCTION OF PROFILES OF 40 STEEL WITH AUSROLLING 67-07 M10-73788
CONTINUOUS ALUMINUM ROD CASTING AND ROLLING PLANT 67-08 M07-75705
INDUSTRIAL PRODUCTION OF ROLLED SECTIONS OF 40 STEEL WITH THERMOMECHANICAL TREATMENT 67-09 M10-76551

RODS, MICROSTRUCTURE
QUALITY OF STEEL FROM CONTINUOUSLY CAST BILLETS. PT. 1. THE QUALITY OF HIGH-CARBON STEEL WIRE ROD ROLLED FROM BILLETS CONTINUOUSLY CAST FROM BASIC OXYGEN LD STEEL 67-05 M01-68732
INFLUENCE OF ALLOYING ON THE RECRYSTALLISATION TEMPERATURE OF IRON DURING RAPID HEATING 67-12 M14-82155

RODS, NONDESTRUCTIVE TESTING
NONDESTRUCTIVE EXAMINATION OF RADIOACTIVE MATERIAL USING NEUTRON RADIOGRAPHY 67-03 M19-65015

RODS, POWDER METALLURGY
LARGE PARTS OF REFRACTORY CARBIDES 67-10 M09-79580

RODS, QUALITY CONTROL
INSPECTION OF THE HARDNESS OF RODS IN AN EMID-3 APPARATUS 67-05 M19-68448

RODS, REFINING
CONTINUOUS MELTING, CASTING AND ROLLING OF COPPER ROD 67-09 M03-77918

RODS, ROLLING
ADJUSTMENT OF CONTINUOUS ROD AND STRIP MILLS 67-01 M07-58291
A ROD AND BAR MILL FOR SPECIALTY STEELS 67-02 M07-60235
THE CONTINUOUS COOLING OF HOT ROLLED WIRE ROD 67-02 M07-60757
AUTOMATION OF BAR AND ROD MILLS 67-05 M20-69484

RODS, SURFACE FINISHING
ABRASION AND POLISHING OF TUBES AND RODS 67-10 M12-79397

RODS, WELDING
RESISTANCE BUTT WELDING OF 80S STEEL REINFORCED RODS 67-02 M11-62161
FLASH WELDING OF REINFORCEMENT RODS MADE OF GRADE 80S STEEL 67-04 M11-67168
THERMOCRUCIBLE WELDING CONNECTIONS TO EARTHING DEVICES 67-04 M11-67937
FATIGUE STRENGTH OF FRICTION WELDED JOINTS 67-06 M11-71847
SPOT WELDING OF ARMATURE RODS TO SHEET 67-08 M11-74381
THE FATIGUE STRENGTH OF FRICTION WELDED JOINTS 67-11 M11-80879
SPOT WELDING REINFORCING RODS TO ROLLED PLATE 67-12 M11-82254

ROENTGEN RAYS
SEE X RAYS

ROENTGENOGRAPHY
SEE RADIOGRAPHY

ROKIDE PROCESS
SEE POWDER SPRAYING

ROLL BENDERS
BENDING WITHOUT MANDRELS 67-06 M08-71403

ROLL BENDING
BENDING WITHOUT MANDRELS 67-06 M08-71403
BENDING OF FINE AND MEDIUM-GRADE SHEETS 67-07 M08-74019

ROLL BONDING
ON THE STRENGTH OF AL-RICH AL-AG SOLID SOLUTION WHICH CAUSED THE DIFFERENCE IN THE CONCENTRATION DISTRIBUTION OF THE SOLUTE ATOM 67-05 M14-69852
TIN-FREE STEEL CANS RUN HOT AND COLD 67-06 M11-70500
SILVER BIMETALS 67-08 M11-75634

ROLL BURNISHING
ROLLING ROUND GEARS ROUNDS THEM OUT 67-06 M07-70488
WORKING PRIOR TO FINISH ROLLING 67-06 M07-71209

ROLL CLADDING
WELDING BETWEEN CLAD SHEET STEELS 67-04 M12-66410
BENDING BIMETALLIC STRIP DURING ROLLING 67-04 M12-66618
DEVELOPING A TECHNOLOGY FOR PRODUCING HIGH-STRENGTH RAILROAD RAILS 67-05 M08-68554
PRODUCTION OF BIMETAL SHEETS BY VACUUM PACK ROLLING 67-05 M12-68550
DEVELOPING A TECHNOLOGY FOR PRODUCING HIGH-TENSILE STEEL RAILWAY RAILS 67-07 M08-72465
MANUFACTURE OF BIMETALLIC SHEETS BY ROLLING VACUUM PACKS 67-07 M12-72461

ROLL COATING
SEE ROLLER COATING

ROLL COMPACTING
POWDER MOVEMENT DURING VERTICAL ROLLING 67-01 M09-58191
ANALYTICAL DETERMINATION OF SPECIFIC PRESSURE DURING ROLLING OF METAL POWDERS 67-02 M09-59602
INCREASING THE COMPACTING RATE OF MOISTENED METAL POWDERS 67-02 M09-59604
ON THE POSSIBILITY OF PRODUCING SAP FOIL BY POWDER BOILING 67-02 M09-60585
THE ROLLING COEFFICIENTS OF METAL POWDERS 67-02 M09-62121
ON POWDER ROLLING PROCESS 67-04 M09-67585
THE COMPACTION OF METAL POWDERS 67-07 M09-73859
THE MECHANISM OF THE COMPACTION OF METAL POWDERS BY ROLLING 67-07 M09-73865
THE COMPACTION OF METAL POWDERS BY ROLLING 67-07 M09-73866
NEW METHODS FOR THE CONSOLIDATION OF METAL POWDERS. V 1. PERSPECTIVES IN POWDER METALLURGY 67-07 M09-73873
ROLL COMPACTING OF ALUMINUM-CLAD SINTERED STRIP 67-08 M09-74915
STRESS ANALYSIS DURING ROLLING OF METAL POWDERS

ROLL COMPACTING
67-08 M09-75425
ANALYTICAL DETERMINATION OF SPECIFIC PRESSURE DURING THE ROLLING OF METAL POWDERS
67-09 M09-76920
EXTENDING THE POWDER ROLLING VELOCITY RANGE BY POWDER WETTING 67-09 M09-76922
BETHLEHEMS SHEET CHROMIZING PROCESS
67-10 M12-78618
CHROMIZING COATING PROCESS FOR LOW-CARBON STEEL
67-12 M09-82398
ROLL FORGING
PLASTIC WORKING OF METALS WITH SEPARATE ZONES OF DIFFICULT DEFORMATION 67-02 M07-60064
A SALT BATH SYSTEM FOR MAKING SPRING BARS
67-03 M10-65980
DEVELOPMENT AND MECHANICAL EVALUATION OF THE FIRST PRODUCTION PRIMARY BERYLLIUM STRUCTURE
67-04 M17-67897
TECHNOLOGY AND EVOLUTION OF METAL FORMING TECHNIQUES 67-05 M07-69891
ROLL FORMING
THE QUALITY OF ELECTRICALLY WELDED TUBE AS RELATED TO THE FLAT ANISOTROPY OF THE HOT ROLLED STRIP
67-04 M07-68148
ROLLING THE URETHANE-STEEL WAY 67-04 M08-66501
COLD BENDING AND FORMING TUBE AND OTHER SECTIONS
67-04 M08-66589
JET-AGE JOBS FOR FORM ROLLING 67-05 M08-68307
FORM OF THE SURFACES OF THE GROOVE AND OF THE WORKING CONE FOR COLD ROLLED FORMING PIPES
67-06 M08-71399
THE COOKSON METHOD OF COLD ROLL-FORMING
67-06 M08-72049
THE PRODUCTION AND FABRICATION OF COLD-FORMED SECTIONS AT THE WORKS OF AYRSHIRE METAL PRODUCTS LTD 67-07 M07-72998
THEORETICAL AND EXPERIMENTAL INVESTIGATION OF FORCES AND TORQUE IN ROLL-STRAIGHTENING OF ROLLED MATERIAL 67-07 M07-73227
THE FEASIBILITY OF ROLL FORMING SPHERICAL BOTTOMS ON THICK-WALLED TUBULAR BILLETS
67-07 M08-73953
EXPERIMENTAL INVESTIGATION OF STRESS DISTRIBUTION IN ROLL-FORMING STRIP ON ROLL-BENDING MILLS 67-08 M07-74580
SWEDEN INSTALLS BRITISH COIL-COATING AND ROLL FORMING LINE 67-09 M08-76679
COLD ROLL FORMING--THE MACHINES AND THEIR APPLICATION 67-09 M08-77551
ROLLER FINISHING AND DEEP ROLLING OF CAST IRON
67-10 M08-79536
ROLL PEENING
SEE METAL ROLLING
PEENING
ROLL PIERCING
SEE HOT ROLLING
PIERCING
ROLL PLANISHING
WELD STRENGTH IMPROVED BY ROLL PLANISHING
67-03 M08-65170
ROLL PLATING
FABRICATION OF PLATED STRUCTURAL MEMBERS--COMPARISON OF ROLL PLATING AND SURFACING
67-08 M12-75788
ROLL PRESSING
SEE ROLLING
ROLL SEAM WELDING
SEE RESISTANCE SEAM WELDING
ROLL SPOT WELDING
SEE RESISTANCE SPOT WELDING
ROLL STANDS
MODERNIZATION OF THE ANGLE SECTION MILL AT DISTRICT IRON AND STEEL COMPANY, LIMITED
67-07 M07-73087
THE ELASTIC BEHAVIOR OF A FOUR-HIGH COLD ROLLING STAND IN THE FINISH ROLLING OF AL FOIL
67-07 M07-74156
EFFECT OF ROLL STAND RIGIDITY ON LENGTHWISE THICKNESS VARIATION OF STRIP 67-08 M07-76277
INFLUENCE OF RIGIDITY OF WORKING STAND ON NON-UNIFORMITY IN LONGITUDINAL THICKNESS OF STRIP
67-10 M07-79270
ROLL WELDING
SPOT AND ROLL WELDING OF LOW-CARBON PROTECTIVE-COATED STEELS 67-01 M11-58214
THE APPLICATION OF CURRENT-CONDUCTING POWDER COMPOSITIONS ON METAL PARTS BY THE METHOD OF ROLLER-WELDING ROLLING 67-02 M11-62118
SOME FEATURES OF QUALITY CONTROL OF CONTACT WELDING USING REFERENCE MATERIAL
67-06 M11-70358
IMPROVING THE ROLL WELDING OF BELLOWS
67-07 M11-72742
INCREASING THE RELIABILITY OF SEAM WELDED BELLOW JOINTS 67-12 M11-82321
ROLL WELDS
SEE ROLL WELDING
WELDED JOINTS
ROLLER BEARINGS
SEE ALSO TAPER ROLLER BEARINGS
NEW TECHNIQUES IN METAL FORMING
67-03 M07-65166
MULTIPURPOSE BEARINGS 67-12 M20-82468
ROLLER BEARINGS, ACOUSTIC PROPERTIES
STUDIES ON SOUND VELOCITY IN HARDENED CHROMIUM STEEL 67-08 M16-75694
ROLLER BEARINGS, HEAT TREATMENT
HEAT TREATMENT OF ROLLING BEARINGS--THE TORRINGTON PLANT AT DARLINGTON 67-08 M10-74739
ADVANTAGES OF HIGH TEMPERATURE CARBURIZING
67-12 M10-82554
ROLLER BEARINGS, MECHANICAL PROPERTIES
FATIGUE TESTING MATERIALS FOR BALL AND ROLLER BEARINGS 67-02 M17-60551
ASPECTS OF LUBRICATION AFFECTING LIFE OF ROLLING BEARINGS 67-07 M17-73722
ROLLER BURNISHING
ROLLER BURNISHING 67-05 M08-68790
FAST WAY TO FINISH RING GEARS 67-05 M12-69580
ROLLER COATING
ORGANIC COATINGS FOR STEEL SHEETS--CONTINUOUS PAINTING LINE 67-01 M12-58489
EUROPES WIDEST ALUMINIUM PRE-PAINT LINE
67-02 M12-60903
METALLIZING. PT. 6, 7 AND 8. PLASTIC COATINGS, METAL COATING APPLICATIONS, PERSONNEL AND HYGIENE
67-04 M12-66657
COIL-COATING FINISHES 67-04 M12-67749
CLADDING STEEL WITH LEAD BY POWDER ROLLING
67-04 M12-68106
ALUMINIUM PRE-PAINT LINE 67-04 M12-68154
SURFACE TREATING AND ROLLER COATING COIL STOCK
67-06 M12-71558
PRECOATED METALS--THEIR USES AND ADVANTAGES
67-08 M12-74650
ROLLER CONVEYORS
SEE GRAVITY CONVEYORS
ROLLER HEARTH ANNEALING
SEE CONTINUOUS ANNEALING
ROLLER HEARTH FURNACES
NEW 196-FT. ROLLER HEARTH FURNACE INSTALLED AT BETHLEHEM-LOS ANGLES 67-01 M10-58526
CONTINUOUS HEAT TREATMENT OF AN AUSTENITIC STRIP BY DIRECT RESISTANCE HEATING 67-04 M10-66015
COMMISSIONING A NEW ROLLER-HEARTH TUNNEL FURNACE FOR THE HEAT TREATMENT OF TUBES OF STEEL SHKH15
67-04 M10-68198
STEEL PLATE QUENCHING AND TEMPERING PLANT IN INDIANA 67-06 M10-70025
EXISTING AND FUTURE DESIGNS OF SLAB REHEATING FURNACES 67-10 M10-78332
ROLLER LEVELING
CONTROL OF LUDERS MARKINGS ON MILD STEEL STRIP BY ROLLER-FLEXING UNDER TENSION 67-04 M07-67419
ROLL STRAIGHTENING OF WELDED PLATES
67-04 M11-67995
SHEARING LINE IS A SPACE SAVER 67-05 M08-69101
ROLLING
SEE ALSO COLD ROLLING
CONTINUOUS ROLLING
CROSS ROLLING
HOT ROLLING
METAL ROLLING
PACK ROLLING
PLUG ROLLING
ROLL PLANISHING
SANDWICH ROLLING
SKIN PASS ROLLING
TENSION ROLLING
THREAD ROLLING
HIGH-SPEED COLD ROLLING OF LOW-CARBON STEEL SHEET AS A FUNCTION OF LUBRICANT TYPE
67-01 M07-58091
HOW ROLLING RATE AFFECTS BITE TORQUE ON A COLD 2800 MILL 67-01 M07-58171
TECHNICAL AND ECONOMIC CONSIDERATIONS IN PLATE MILL PROCESS CONTROL 67-01 M07-58490
HIGH SPEED MILL AT CONTRECOEUR 67-01 M07-58496

RATIONALIZATION OF ROLLING AND DRAWING PROCESS DESIGNS ANALYSIS 67-01 M07-58576
TEXTURE OF HOT ROLLED BAND OF SILICON IRON 67-01 M14-58239
COLD ROLLING AND MAGNETIC PROPERTIES OF 6.5 PER CENT SILICON-IRON ALLOYS 67-01 M17-58324
CONSTANT-GAGE ALUMINUM STRIP PRODUCED BY ROLLING MILL 67-02 M07-58971
DEFORMATION OF THE LAYERS OF SHAPED TWO-LAYER STEEL --FOR CULTIVATOR TOOLS-- 67-02 M07-59507
PLASTIC PHENOMENA IN ROLLING 67-02 M07-59809
DEVICE FOR INVESTIGATING CONTINUOUS ROLLING 67-02 M07-60084
PRODUCTION OF ROLLED BIMETAL SHAPES 67-02 M07-60964
WORKING FORCES AND RESISTANCE TO DEFORMATION IN HOT ROLLING SOME HIGH-NICKEL ALLOYS 67-02 M07-61871
SOME SPECIFIC FEATURES OF HOT ROLLING REFRACTORY METALS IN A VACUUM AND IN AN ATMOSPHERE OF INERT GAS 67-02 M07-62220
A METHOD OF STUDYING SPECIFIC FRICTION FORCES AND PRESSURES IN THE ROLLING OF METAL POWDERS 67-02 M09-60574
ROLLING OF TUNGSTEN AND MOLYBDENUM AT LOW-PARTIAL PRESSURE OF OXYGEN 67-02 M09-61621
STORAGE BATTERY ELECTRODES MADE BY ROLLING CARBONYL NICKEL POWDER 67-02 M09-62202
ON THE ASSESSMENT OF SOME FACTORS INVOLVED IN ROLLING METAL POWDERS 67-02 M09-62204
ROLLING OF BIMETAL STEEL--AL-SB-MG ALLOY WITH % ALUMINUM INTERLAYER 67-02 M12-59197
A PRELIMINARY SURVEY OF THE PROPERTIES OF 0.5-5 WT PER CENT COPPER-BERYLLIUM ALLOY SHEET 67-03 M07-65282
DESIGN, CONSTRUCTION AND INITIAL PRODUCTION OF THE NO. 3 WIRE ROD MILL OF SUMITOMO METAL INDUSTRIES KOKURA STEEL WORKS 67-03 M07-65929
ELASTIC STRAINS IN COPPER DEFORMED BY ROLLING 67-03 M13-65123
THE EFFECT OF ROLLING AND ANNEALING TEMPERATURE ON THE PROPERTIES OF WROUGHT BERYLLIUM INGOT SHEET 67-03 M17-65281
CONTINUOUS CASTING AND ROLLING WIDE-FLANGE BEAM BLANKS 67-04 M04-67188
RESISTANCE TO DEFORMATION WHILE HOT-ROLLING CERTAIN HIGH-NICKEL ALLOYS 67-04 M07-67690
ROLLING ALUMINUM POWDER INTO COILED DENSE-EDGE STRIP 67-04 M09-66841
REGULARITIES OF HEATING STEEL INGOTS BEFORE ROLLING 67-04 M10-66218
ROLLING HISTORY IN RELATION TO THE TOUGHNESS OF SHIP PLATE 67-04 M17-66682
EFFECT OF TECHNOLOGICAL PARAMETERS ON THE DEFORMATION OF METAL AND YIELD IN ROLLING CONTINUOUS CAST FLAT INGOTS 67-05 M07-68328
INVESTIGATION OF METAL SLIP DURING ROLLING IN CHANNEL PASSES 67-05 M07-68330
STUDY ON HELICAL ROLLING. PT. 1. PRELIMINARY EXPERIMENT WITH LEAD BILLETS 67-05 M07-69370
CHANGES IN SPECIFIC PRESSURE DURING DEFORMATION OF THICK SHEETS 67-05 M07-69602
PRODUCING BIMETALS BY VACUUM ROLLING 67-05 M12-68235
BEHAVIOR OF NONMETALLIC INCLUSIONS DURING ROLLING OF STEEL DEOXIDIZED WITH THE COMBINATIONS MN-AL AND SI-AL. PT. 5. DEFORMATION OF INCLUSIONS IN STEEL DURING ROLLING 67-06 M04-72211
THE REFRACTORY METALS SHEET ROLLING PROGRAM 67-06 M07-70124
APPARATUS FOR ROLLING METALS AT 4.2-300 K 67-06 M07-70167
FORCE PATTERN DURING HOT ROLLING OF ALUMINUM ALLOY TUBES 67-06 M07-71356
NATURAL CONDITIONS OF GRIP --BITE-- IN THE ROLLING OF LAMINATED METALS 67-06 M07-71359
SPATIAL DISTRIBUTION OF THE FLOW OF MATERIAL AND OF THE ROLL PRESSURE WITHIN THE ROLL GAP 67-06 M07-71748
THE ROLLING OF WATER-PULVERIZED KANTHAL FE ALLOY POWDER 67-06 M09-71740
ROLLING OF STRUCTURAL ALUMINUM-STEEL BIMETALS 67-06 M12-71358
BLOWHOLES IN ALUMINUM-KILLED NITROGEN-ALLOYED STEEL INGOTS AND WELDING-UP OF BLOWHOLES BY ROLLING 67-06 M19-72395
TECHNICAL AND ECONOMIC CONSIDERATIONS IN PLATE MILL PROCESS CONTROL 67-07 M07-72427
INFLUENCE OF TECHNOLOGICAL PARAMETERS ON METAL DEFORMATION AND YIELD OF SOUND OUTPUT IN ROLLING FLAT INGOTS FROM CONTINUOUS CASTING 67-07 M07-72856
INVESTIGATING METAL SLIP IN ROLLING IN CHANNEL PASSES 67-07 M07-72858
CALCULATION OF THE ROLL FORCE AND TORQUE REQUIRED IN ROLLING STRIP WITH ELEVATED DEFORMING SPEEDS 67-07 M07-73285
NOTES ON SOME FAULTS IN SEMIFINISHED PRODUCTS. RATIONAL PROCEDURES FOR ASSESSING THE NATURE OF FAULTS IN FINISHED PRODUCTS 67-08 M04-75796
EFFECT OF DEFORMATION CONDITIONS DURING ROLLING COPPER ON THE VALUE AND CHARACTER OF DISTRIBUTION OF STRESSES OF SECOND ORDER 67-08 M07-75009
STUDY OF METAL FLOW IN THE SEAT OF DEFORMATION 67-08 M07-75011
SIMPLIFIED CALCULATION OF ROLL-SEPARATING FORCE AND TORQUE IN STEEL STRIP ROLLING 67-08 M07-75392
PRESENT STATE OF THE HYDRODYNAMIC THEORY OF ROLLING 67-08 M07-75660
PRODUCTION OF BATCH ROLLED PROFILES 67-08 M07-76276
EFFECT OF ROLL STAND RIGIDITY ON LENGTHWISE THICKNESS VARIATION OF STRIP 67-08 M07-76277
ON SOME VERSIONS OF ROLLING METAL POWDERS 67-08 M09-74902
METHODS AND SPECIAL FEATURES OF ROLLING BIMETALLIC STRIPS FROM METAL POWDERS 67-08 M09-74904
RESISTANCE TO DEFORMATION AND TORQUE WHEN ROLLING IN BREAKING-DOWN PASSES 67-09 M07-76505
ROLLING KHN67VMTYU ALLOY PLATES 67-09 M07-76976
INFLUENCE OF ELECTROSLAG REMELTING AND HOT WORKING ON THE STABILITY OF DMO 5 DRILLS 67-09 M07-77225
PREPARATION OF THIN PLATES FROM REFRACTORY CARBIDES 67-09 M09-76840
THE PROPERZI PROCESS--1967 PROGRESS REPORT. PT. 1 67-10 M06-80092
THE QUALITY OF THIN FOILS OF TITANIUM 67-10 M07-79046
PRODUCING EFFICIENTLY ROLLED PERIODIC SECTIONS 67-10 M07-79269
THE ROLLING OF METALS OF LIMITED DUCTILITY 67-10 M07-79534
THE BEHAVIOR OF ELECTROPLATED NICKEL SUBLAYERS DURING ROLLING OF BIMETALS 67-10 M07-79812
ISOTOPES AND NUCLEAR RADIATION FOR CONTROL AND AUTOMATION OF FERROUS METALLURGICAL PROCESSES 67-11 M04-81606
ISRAELI FABRICATING FIRM MAKES STEEL PIPE FOR MAJOR WATER-SUPPLY PROJECT 67-11 M07-80719
POWER PARAMETERS IN ROLLING TUBES ON A SHORT MANDREL 67-11 M07-81655
VARIATION OF YIELD STRESS WITH STRAIN AND STRAIN RATE IN MILD STEEL 67-11 M17-81022
STUDY OF THE ALGORITHM OF AN ELECTRON MODEL OF THE DEFORMATION AREA IN ROLLING 67-12 M07-81710
PRESSURE SHAPING OF IRON-ALUMINUM ALLOYS 67-12 M07-83329
STUDY OF THE DUCTILITY OF TUNGSTEN IN VACUUM ROLLING 67-12 M07-83331
ROLLING OF AUTOMATIC STEELS CONTAINING SULFUR 67-12 M07-83454
ULTRASONICS INVESTIGATED AS A MEANS TO REDUCE ROLLING FORCES 67-12 M07-83596
INFLUENCE OF AIR ON THE ROLLING PROCESS OF METAL POWDERS 67-12 M09-83564
CONTINUOUS SMALL BAR MILL AT THE WORKS OF THE METALLURGY SOCIETY OF NORMANDY 67-12 M20-82895

ROLLING, AUTOMATIC CONTROL
USE OF ISOTOPIC DEVICES FOR MEASURING THE LENGTH OF ROLLED PRODUCTS IN THE ROLLING PROCESS 67-10 M07-79864

ROLLING, AUTOMATION
PROCESS CONTROL AND AUTOMATION OF SHEET AND WIDE STRIP MILLS 67-06 M07-70827
ROLLING FOIL AT PERMANENTE 67-10 M07-78460

ROLLING, LUBRICATION
COOLING AND LUBRICATION OF ROLLERS DURING ROLLING AND SPREADING OF WIRE 67-02 M07-62284

ROLLING, QUALITY CONTROL
CONTROL OF THE TOTAL THICKNESS OF ROLLED STOCK AND OF THE THICKNESS OF ITS STEEL BASE 67-06 M19-70097

ROLLING, STRESSES

ROLLING

DETERMINING DEFORMING FORCES IN ROLLING RING BILLETS ON A MANDREL 67-02 M07-59821
ROLLING CONTACT
AN EMPIRICAL EQUATION FOR THE STRAIN-RATE EFFECT ON ROLL SEPARATING FORCE IN COLD ROLLING 67-03 M07-65939
STUDY ON THE PITTING IN ROLLING CONTACT. PT. 1. ON THE MECHANISM OF THE PITTING OCCURRENCE 67-05 M18-69371
THE CONTACT ENDURANCE OF BALL BEARING STEEL 67-06 M17-70095
EXAMPLES FOR THE APPLICATION OF A METHOD OF CALCULATION OF ROLLING CHARACTERISTICS 67-07 M07-73226
GEARS AND THEIR LUBRICATION 67-07 M17-73691
RESISTANCE OF CASE-HARDENED STEEL TO CONTACT FATIGUE 67-08 M17-76001
SURFACE LAYERS AND WEAR RESISTANCE OF SHKH15 STEEL TO ROLLING FRICTION 67-08 M17-76007
A NOTE ON THE INFLUENCE OF TANGENTIAL TRACTION ON PITTING FATIGUE 67-08 M18-75542
ANALYSIS OF TAPERED ROLLER BEARING DAMAGE 67-11 M17-81125
ELASTIC DEFORMATION OF RUBBING SURFACES 67-12 M17-82434
EFFECT OF CYCLIC CONTACT LOADS ON CERTAIN CHARACTERISTICS OF THE CRYSTAL STRUCTURE OF GRADE SHKH15 STEEL 67-12 M17-82480
HOW VACUUMING AFFECTS THE QUALITY OF BALL BEARING STEEL 67-12 M17-83456
ROLLING CONTACT, COMPOSITION EFFECTS
STUDY OF MATERIAL FOR UNLUBRICATED ROLLING PARTS FOR HIGH-TEMPERATURE SERVICE 67-02 M17-61998
ROLLING CONTACT, LUBRICATION
ASPECTS OF LUBRICATION AFFECTING LIFE OF ROLLING BEARINGS 67-07 M17-73722
ROLLING CONTACT BEARINGS
SEE ANTIFRICTION BEARINGS
ROLLING CONTACT FATIGUE TESTS
SEE FATIGUE TESTS
ROLLING CONTACT
ROLLING FRICTION
THE EVALUATION OF ROLLING WEAR INVESTIGATIONS. PT. 1 67-03 M07-65598
LUBRICANT LIFE TESTS ON BALL BEARINGS FOR SPACE APPLICATIONS 67-05 M17-68942
PREDICTION OF BALL-SPIN AND INTERFACIAL SLIP FRICTION FROM ROOM TO 2500 F 67-05 M17-68943
EXAMPLES FOR THE APPLICATION OF A METHOD OF CALCULATION OF ROLLING CHARACTERISTICS 67-07 M07-73226
COMPUTING THE COEFFICIENT OF FRICTION IN THE ROLL BITE FROM MILL DATA 67-09 M07-76500
EFFECT OF ROLLING SPEED OF A HARDENING ALLOY ON TANGENTIAL AND NORMAL STRESS PEAKS 67-09 M07-77129
ROLLING FRICTION, TEMPERATURE EFFECTS
HIGH-TEMPERATURE BEARING MATERIALS 67-07 M20-74055
ROLLING MILLS
SEE ALSO BILLET MILLS
BLOOMING MILLS
COLD ROLLING MILLS
COLD STRIP MILLS
COLD TANDEM MILLS
FINISHING MILLS
HOT ROLLING MILLS
HOT ROUGHING MILLS
HOT STRIP MILLS
PLANETARY MILLS
REVERSING MILLS
ROD MILLS /ROLLING/
ROLL STANDS
SLAB MILLS
STRIP MILLS
TANDEM MILLS
ADJUSTMENT OF CONTINUOUS ROD AND STRIP MILLS 67-01 M07-58291
BILLET MILL AND WIRE ROD MILL AT THE APPLEBY-FRODINGHAM STEEL COMPANY, SCUNTHROPE, ENGLAND 67-01 M07-58577
ON THE STRESS CONCENTRATION COEFFICIENT FOR CALCULATING THE FATIGUE STRENGTH OF THE ROLLING MILL BEDS 67-01 M17-57196
PROPERTIES OF MOTTLED IRON, ALLOYED WITH CR, NI AND V FOR ROLLING ROLLS 67-01 M17-57331
EFFECT OF THE HARDNESS ON THE DAMAGES DUE TO ROLLING CONTACT OF BACK-UP ROLL MATERIALS 67-01 M17-57514
RECENT BAR AND SECTION MILL EQUIPMENT 67-02 M07-60167
A ROD AND BAR MILL FOR SPECIALTY STEELS 67-02 M07-60235
IMPROVED EFFICIENCY OF ROLL CHANGE OPERATION AT SHAPE MILL BY USING PERT METHOD 67-02 M07-60756
THE CONTINUOUS COOLING OF HOT ROLLED WIRE ROD 67-02 M07-60757
ROLLING ON A MILL WITH A HYDRAULIC SCREW-DOWN MECHANISM 67-02 M07-61748
BUILDUP OF ROLLING MILL ROLLERS WITH PP-2KH2V8 POWDER WIRE 67-02 M11-59525
ESTIMATING ROLLER WEAR IN SHEET STEEL ROLLING MILLS 67-04 M07-66084
UNIVERSAL BEAM AND SECTION MILL AT SHELTON IRON & STEEL LTD 67-04 M07-66325
ROLLING PROCESS FOR TUBES ON COLD-ROLLING MILLS WITH ECCENTRIC DRIVING GEARS 67-04 M07-68192
BUILDING UP MILL ROLLS WITH PP-2KH2V8 POWDER-FILLED WIRE 67-04 M12-66474
SURFACE FRACTURES ON COLD-WORKING ROLLS, THEIR FORMATION AND AN INTERPRETATION OF THEIR CAUSES 67-04 M17-67411
ADAPTIVE CONTROL UPGRADES HOT ROLLING MILL 67-05 M07-69152
CONSTANT GAP MILL IN SERVICE. HIGHLY SUCCESSFUL FIRST INSTALLATION AT DOLGARROG 67-05 M07-69872
A MODERN MILL FOR COPPER TUBING 67-05 M20-69499
THE DEVELOPMENT OF THE CONVERTIBLE ROLLING MILL 67-06 M08-72052
BRITISH MILL ROLLS TOWARD AUTOMATION 67-06 M20-70678
TECHNICAL AND ECONOMIC CONSIDERATIONS IN PLATE MILL PROCESS CONTROL 67-07 M07-72427
A 210 MM MILL FOR ROLLING UNDER VACUUM 67-07 M07-73003
INCREASING THE STRENGTH OF BACKING ROLLS IN FOUR-HIGH STAND AND IMPROVING THE PROFILE OF THE SHEET 67-07 M07-74143
RELATIVE MOVEMENT OF METAL BEING FORMED AND FREE FLOATING MANDREL WHEN ROLLING TUBES ON A CONTINUOUS MILL 67-07 M07-74144
PROPERTIES OF MOTTLED IRON ALLOYED WITH CR, NI AND V FOR MILL ROLLS 67-07 M17-73053
TRANSVERSE ROLLING SOLVES MANY PROBLEMS 67-08 M07-74360
MEASURING, INDICATING AND RECORDING IN HEAVY AND MEDIUM PLATE ROLLING MILLS 67-08 M19-76288
FEATURES OF THE MODERNIZED BAR AND ROD MILL FACILITIES AT COPPERWELD STEEL 67-09 M07-76669
MECHANISM FOR FEEDING PIPES INTO ROLLING MILLS 67-09 M07-76860
ELECTROHYDRAULIC SYSTEM FOR AUTOMATIC THICKNESS CONTROL OF STRIP ROLLED IN COLD ROLLING MILLS 67-09 M19-76836
ROLLING MILLS AND ROLLED PRODUCTS 67-10 M07-78872
SOME PRINCIPLES OF THE DESIGN OF REVERSIBLE COLD ROLLING MILL DRIVES 67-10 M07-79380
COMPUTER FOR AUTOMATIC CONTROL OF SCREW PERFORMANCE HOUSING IN MEDIUM SECTION 2350 MILLS 67-10 M07-79919
A COMPARISON OF MODERN WIRE ROD MILLS--DESIGN, STRUCTURAL DETAILS AND RESULTS 67-12 M07-82556
ROLLING MILLS, AUTOMATIC CONTROL
RAPID STOPPING DEVICES FOR HIGH-SPEED REVERSING ROLLING MILLS 67-08 M07-74928
ROLLING MILLS, AUTOMATION
A CONTROL ALGORITHM FOR AN AUTOMATING SYSTEM FOR PLATE MILLS 67-02 M07-62237
DIGITAL TRACKING SYSTEM 67-04 M07-66403
REVERSING HOT MILLS AND THEIR AUXILIARIES 67-05 M07-69176
SPECIAL MILLS 67-05 M07-69180
PROCESS CONTROL AND AUTOMATION OF SHEET AND WIDE STRIP MILLS 67-06 M07-70827
CONSTRUCTING A MATHEMATICAL MODEL OF THE SHEET ROLLING PROCESS. PT. 3 67-08 M07-74332
A NEW CONTINUOUS ROLLING MILL FOR SEMIFINISHED PRODUCTS 67-08 M07-75308
INDUSTRIAL COMPUTER CONTROL OF ROLLING MILLS 67-08 M07-75795
AUTOMATIC BRAKING AND STOPPING OF REVERSING COLD ROLLING MILLS 67-10 M07-79379

EXPERIENCE GAINED WITH VARIOUS MEASURING AND TRANSMITTING METHODS IN STEEL MILLS 67-10 M07-79390
CONTINUOUS SMALL BAR MILL AT THE WORKS OF THE METALLURGY SOCIETY OF NORMANDY 67-12 M20-82895

ROLLING MILLS, BEARINGS
DOMESTIC PRODUCTION OF SLEEVES AND BUSHINGS FOR MILL BEARINGS 67-01 M20-57915

ROLLING MILLS, DESIGN
KAISER STEELS 3-STAND COLD REDUCING MILL FOR LIGHT WEIGHT TIN MILL PRODUCTS 67-12 M07-83590

ROLLING MILLS, DIMENSIONAL MEASUREMENTS
AGC.. PUTTING THICKNESS MEASUREMENT TO WORK 67-09 M19-76496

ROLLING MILLS, MECHANICAL PROPERTIES
INTER-ROLLER PRESSURE AND ROLL CAMBER IN FOUR-HIGH MILLS 67-08 M07-74335
THERMAL RESISTANCE AND WEAR RESISTANCE OF ROLLING MILL GUIDES 67-12 M17-81729

ROLLING MILLS, QUALITY CONTROL
CONTROL OF THE TOTAL THICKNESS OF ROLLED STOCK AND OF THE THICKNESS OF ITS STEEL BASE 67-06 M19-70097
AUTOMATIC THICKNESS GAGE FOR COLD ROLLED STRIP 67-09 M19-76858

ROLLING MILLS, STRESSES
EXPERIMENTAL STUDY OF CONTACT STRESSES IN HOT ROLLING OF CARBON STEELS 67-02 M07-61747
THE SLIP LINE FIELD IN ROLLING OF THICK STRIP 67-04 M07-67610
EQUATIONS FOR CALCULATING FORWARD SLIP AND EXPERIMENTAL VERIFICATION IN COLD ROLLING STRIP WITH TENSION 67-04 M07-67612

ROLLING MILLS, TENSION
PRESSURE OF METAL ON ROLLERS WHEN ROLLING BY OVAL-SQUARE AND OVAL-EDGE OVAL SYSTEM 67-02 M07-61212
DEGREE OF STRESSED STATE AND CHANGE IN EXTERNAL CONTACT FRICTION IN COLD ROLLING 67-02 M07-61214
TUBE ROLLING ON KHPT MILLS WITH ECCENTRIC DRIVING GEARS 67-02 M07-62150
RELATIONSHIP OF THE COLD ROLLING PROCESS TO RATE OF CONTINUOUS MILL 67-02 M07-62266

ROLLING MILLS, TUBES
THREE ROLL PIERCER MAKES DIRECT ROLLING OF CONTINUOUSLY CAST BILLET POSSIBLE 67-05 M07-69594

ROLLING STOCK
SEE ALSO FREIGHT CARS
LOCOMOTIVES
RAILROAD CARS
WEATHER RESISTANT STEEL SHEETS 67-01 M18-58116
HEAT TREATMENT OF RAILWAY ROLLING STOCK COMPONENTS 67-07 M10-72905

ROLLING STOCK, WELDING
WELDING TECHNOLOGY USED IN REPAIR WORK ON THE ROLLING STOCK OF THE GERMAN FEDERAL RAILWAYS 67-04 M11-68007

ROLLS
SEE ALSO BACKUP ROLLS
CHILL ROLLS
EFFECT OF THE HARDNESS ON THE DAMAGES DUE TO ROLLING CONTACT OF BACK-UP ROLL MATERIALS 67-01 M17-57514
CURRENT PROBLEMS ON HARDENED FORGED STEEL WORK ROLLS FOR COLD STRIP MILLS 67-02 M07-60717
AN EFFICIENT TYPE OF ROLLS FOR 2800 PLATE MILL ROUGHING STAND 67-04 M07-68191
THREE-ROLL PIERCER--NEW SYSTEM OF SEAMLESS STEEL TUBEMAKING 67-07 M07-73621
AUTOMATIC ROLL GRINDERS FOR FLAT PRODUCTS MILLS 67-10 M08-78620
CAST ALLOY DEFIES FURNACE HEAT 67-12 M20-83481

ROLLS, CASTING
DEFECTS IN THE WORKING LAYER OF MAGNESIUM-TREATED IRON ROLLS 67-02 M06-61186
PRODUCTION OF CALENDER AND OTHER SHAFTS FOR PAPER-MAKING MACHINES 67-02 M06-61240
EFFECT OF MOLD GROOVING ON THE RATE OF COOLING OF CHILLED MILL ROLLS 67-04 M06-67619
PRODUCTION OF CALENDAR AND OTHER ROLLS FOR PAPERMAKING MACHINES 67-04 M06-68100

ROLLS, COATING
BUILDUP OF ROLLING MILL ROLLERS WITH PP-2KH2V8 POWDER WIRE 67-02 M11-59525
RECLAMATION OF METALLURGICAL EQUIPMENT BY BUILDUP 67-02 M11-59527
ELECTROSLAG RECLAMATION OF ROLLING ROLLS 67-02 M11-59584
CIRCULAR ELECTROSLAG DEPOSIT WELDING OF PARTS IN VERTICAL POSITION 67-02 M12-61252
BUILDING UP MILL ROLLS WITH PP-2KH2V8 POWDER-FILLED WIRE 67-04 M12-66474
HARDFACING REPAIRS ON IRON AND STEELWORKS EQUIPMENT 67-04 M12-66476
THE CIRCUMFERENTIAL ELECTROSLAG BUILDING UP OF CYLINDRICAL COMPONENTS 67-04 M12-66525

ROLLS, DEFECTS
WELDING OF FLAKE DEFECTS DURING SECONDARY FORGING 67-02 M07-60674

ROLLS, DESIGN
MAINTAINING ROLL CAMBER IN HOT ROLLING SPECIAL STEELS ON CONTINUOUS MILLS 67-09 M07-77632
ROLL BARREL CONTOURS FOR HOT ROLLING SPECIAL STEELS ON CONTINUOUS MILLS 67-11 M07-80920

ROLLS, HARD SURFACING
EFFICIENT ROLLERS FOR THE 2800 MILL BREAKDOWN STAND 67-02 M07-62149
EFFICIENCY OF INGOT ROLLING IN ROLLERS WITH HIGHLY RESISTANT GROOVING 67-02 M07-62151

ROLLS, HEAT TREATMENT
PRECISION CONTROL IN TEMPERING OF STEEL ROLLS AT MIDVALE-HEPPENSTALL CO 67-03 M10-65471
X-RAY INVESTIGATION OF SURFACE LAYERS OF 9KH STEEL STRENGTHED
STRENGTHENED BY THERMOMECHANICAL SURFACE TREATMENT 67-08 M10-76025
REQUENCHING OF THE WORKING ROLLS OF COLD ROLLING MILLS 67-11 M10-80860
EFFECT OF HEAT TREATMENT ON THE AMOUNT AND DISTRIBUTION OF HYDROGEN IN LARGE FORGINGS 67-12 M10-81876

ROLLS, MECHANICAL PROPERTIES
PROPERTIES OF MOTTLED IRON, ALLOYED WITH CR, NI AND V FOR ROLLING ROLLS 67-01 M17-57331
ROLLING INGOTS ON ROLLS WITH HIGHLY RESISTANT MILLED SURFACES 67-04 M17-68193
ROLLING MILL ROLLS OF CHROMIUM IRON 67-07 M07-74077
THE ELASTIC BEHAVIOR OF A FOUR-HIGH COLD ROLLING STAND IN THE FINISH ROLLING OF AL FOIL 67-07 M07-74156
PROPERTIES OF MOTTLED IRON ALLOYED WITH CR, NI AND V FOR MILL ROLLS 67-07 M17-73053
INTER-ROLLER PRESSURE AND ROLL CAMBER IN FOUR-HIGH MILLS 67-08 M07-74335
SOME CONSIDERATION ON THE PREMATURE FAILURE OF FULLY HARDENED ROLL 67-08 M17-75771
CAUSES OF HAIRLINE CRACKING IN BILAYER CHROMIUM-NICKEL ROLLS 67-11 M17-81663
STUDY OF THE STRUCTURE AND PROPERTIES OF ROLLS AFTER VACUUM HOT ROLLING OF MOLYBDENUM 67-12 M07-83538
ELASTIC DEFORMATION OF ROLLS IN METAL POWDER ROLLING 67-12 M09-82206
WEAR RESISTANCE OF PREHEATED STEEL AFTER REPEATED HEAT TREATMENT 67-12 M17-81718
WEAR OF CAST IRON ROLLS 67-12 M17-82095

ROLLS, MICROSTRUCTURE
DISTRIBUTION OF NICKEL AND CHROMIUM IN VERY HARD ROLL IRON 67-09 M04-77373
EFFECT OF ALLOYING ELEMENTS ON THE STRUCTURE OF WHITE CAST IRONS 67-12 M13-82089

ROLLS, SERVICE TIME
CHROMIUM IRON ROLLING ROLLS 67-05 M07-69691
INCREASING THE STRENGTH OF BACKING ROLLS IN FOUR-HIGH STAND AND IMPROVING THE PROFILE OF THE SHEET 67-07 M07-74143
INCREASING THE LIFE OF THE WORKING ROLLS OF COLD ROLLING MILLS 67-12 M07-81870

ROLLS, STRAIN HARDENING
HIGH-TEMPERATURE SURFACE AUSROLLING --ON AN EXAMPLE OF 9KH STEEL-- 67-01 M10-57633

ROLLS, STRESS ANALYSIS
USE OF COMPUTERS FOR CALCULATING STRESS-STRAIN STATE OF ROLLING ROLLS. PT. 1 67-04 M17-66083

ROLLS, SURFACE FINISHING
MACHINING WITHOUT VIBRATION 67-05 M08-68309
SURFACE FINISHING OF ROLLING MILL ROLLS 67-11 M07-80388
DIAMOND TOOLS CUT GIANTS DOWN TO SIZE 67-11 M08-80516

ROLLS, TEMPERATURE MEASURING INSTRUMENTS
HOT STRIP MILL WORK ROLL TEMPERATURE DURING ROLLING 67-05 M07-69710

ROLLS, WEAR
ESTIMATING ROLLER WEAR IN SHEET STEEL ROLLING MILLS 67-04 M07-66084
LONGEVITY OF COLD ROLLING ROLLS AND QUALITY OF THIN SHEET PRODUCTS 67-10 M07-78431
SERVICE LIFE OF ROLLS FOR COLD-ROLLING MILLS AND QUALITY OF THIN SHEET PRODUCTION 67-12 M07-83429

ROLLS, WELDING
GENERAL TECHNOLOGICAL INSTRUCTIONS ON BUILDING UP ROLLS FOR TUBE MILLS 67-02 M11-61064
DEPOSIT WELDING ON STEEL ROLLS 67-08 M11-76289
GAS HEATING OF ROLLS DURING BUILDUP 67-11 M11-80644
PROBLEMS IN THE ELECTROSLAG-COAT-WELDING OF CAST IRON 67-12 M11-81747

ROOFS
EVALUATION OF OPEN-HEARTH ROOF BRICK 67-09 M04-77965
EXPERIENCE WITH THREE BASIC ROOF O. H. INSTALLATIONS AT THE DURGAPUR STEEL PLANT 67-10 M04-78748

ROOFS, PHYSICAL PROPERTIES
BEHAVIOR OF HIGH-FIRED BASIC BRICK IN SPRUNG ARCHES 67-09 M05-76455

ROOFS, TEMPERATURE CONTROL
OPTICAL ROOF TEMPERATURE MEASUREMENTS IN OPENHEARTH FURNACES--ERRORS AND THEIR ELIMINATION 67-09 M19-76507

ROOFS, WELDING
ARGON ARC WELDING OF THE ALUMINIUM COMPONENTS OF A HANGAR ROOF 67-05 M11-68273

ROTARY BENDING
SEE ROLL BENDING

ROTARY COMPRESSORS
SEE CENTRIFUGAL COMPRESSORS

ROTARY CONVERTERS
SEE KALDO CONVERTERS

ROTARY DRILL BITS
SEE CORING BITS
TWIST DRILLS

ROTARY DRILLING
TORNETIC CONTROLS AND BUR-POINT GEOMETRY SOLVE PROBLEM OF DRILLING BERYLLIUM SHEET 67-05 M08-69589

ROTARY FURNACES
SEE ALSO KALDO CONVERTERS
ROTARY HEARTH FURNACES
ROTARY MELTING FURNACES
ANALYSIS OF THE OPERATION OF ROTARY SINTERING FURNACES IN ALUMINA PRODUCTION 67-02 M02-60959
INVESTIGATION OF THE DRYING PROCESS OF IRON-ORE PELLETS 67-06 M02-70118
THE PRODUCTION OF LOW CARBON FERROMANGANESE FROM LIQUID MANGANESE SILICIDE IN A FUEL FIRED ROTARY FURNACE 67-08 M04-76191
CURRENT METHODS FOR THE PRODUCTION OF PREREDUCED MATERIALS. PT. 4 67-09 M04-76397

ROTARY FURNACES, WEAR
INCREASING THE LIFE OF REFRACTORIES IN ROTARY TUBULAR FURNACES 67-08 M05-76237

ROTARY HEARTH FURNACES
HEAT RESISTANT CAST ALLOY CHOICE FOR KEY ELEMENT IN BARREL FURNACE 67-08 M10-76177
DESIGN FOR TOMORROWS STEELMAKING FURNACE 67-12 M04-83169
COKE-OVEN GAS- AND NATURAL GAS-FIRED INDUSTRIAL FURNACES OF MORE RECENT DESIGN FOR THE DIRECT, SCALE-FREE HEATING OF STEEL 67-12 M10-81755

ROTARY INDUCTION FURNACES
SEE ELECTRIC INDUCTION FURNACES

ROTARY KILNS
SEE KILNS

ROTARY MELTING FURNACES
MELTING BEHAVIOR OF CARBON-CONTAINING IRON SPONGE IN A ROTARY MELTING FURNACE 67-07 M04-73267
THE USE OF PREREDUCED MATERIALS IN ROTARY SMELTING FURNACES. PT. 3 67-09 M04-76396

ROTARY PRESS FORGING
SEE PRESS FORGING

ROTARY PUMPS
SEE AXIAL FLOW PUMPS
GEAR PUMPS
VANE PUMPS

ROTARY SWAGING
ROTARY FORGING RAILWAY AXLES SAVES TIME AND MATERIAL 67-01 M07-58784

ROTATING BEAM FATIGUE TESTS
SEE FATIGUE TESTS

ROTATING BEAM MACHINES
SEE FATIGUE TESTING MACHINES

ROTATING GENERATORS
SEE ALTERNATORS
TURBOGENERATORS

ROTATING MACHINES
SEE ALTERNATORS
D C MOTORS
ELECTRIC MOTORS
SERVOMOTORS
TURBOGENERATORS

ROTATIONAL VIBRATION
SEE VIBRATION

ROTOR BLADES
BONDING COPTER BLADES 67-06 M11-71489
PROGRESS REPORT--DEVELOPMENT OF ADVANCED COMPOSITE STRUCTURES 67-07 M09-73346

ROTOR BLADES, NONDESTRUCTIVE TESTING
ULTRASONIC INSPECTION OF HELICOPTER ROTOR BLADES 67-07 M19-74152

ROTOR BLADES, POWDER METALLURGY
CERMET PARTS OF VANE DOUBLE-ACTING MODEL G12-2 PUMP 67-06 M09-71469
SINTERED COMPONENTS OF G12-2 DOUBLE-ACTING VANE PUMPS 67-12 M09-82790

ROTOR BLADES, STAMPING
SEMI-AUTOMATIC LINE FOR STAMPING AND ASSEMBLING ELECTRIC MOTOR ROTOR AND STATOR PLATES 67-02 M08-59407

ROTOR BLADES, SURFACE FINISHING
VIBRATION AND TUMBLING--A NEW DIMENSION IN FINISHING 67-03 M12-65664

ROTOR PLANES
SEE HELICOPTERS

ROTORS
SEE ALSO MOTOR ARMATURES
MOTOR ROTORS
PROBLEMS WITH TURBINE AND GENERATOR MATERIALS 67-06 M20-70726

ROTORS, MATERIALS
COBALT-PLATINUM ROTORS FOR SMALL SYNCHRONOUS DEVICES--ECONOMICS OF DESIGN AND CONSTRUCTION 67-05 M20-69715
A DECADE OF IMPROVEMENTS IN GENERATOR ROTOR FORGINGS 67-06 M17-70725

ROTORS, MECHANICAL PROPERTIES
ROTATING STRENGTH OF HIGH-SPEED ROTOR 67-09 M17-77574

ROTORS, NONDESTRUCTIVE TESTING
ON THE INFORMATIONAL VALUE OF ULTRASONIC TESTS WITH RESPECT TO EVALUATING DEFECTS AND TO THE SERVICEABILITY OF TURBINE ROTORS 67-06 M19-71509
PRACTICAL EXPERIENCE IN ULTRASONIC TESTING OF HEAVY ROTOR FORGINGS AND POSSIBLE WAYS OF IMPROVING THE DEPENDABILITY OF INTERPRETATION BY AUTOMATION 67-07 M19-73072

ROTORS, WELDING
LARGE TURBINE ROTORS FABRICATED BY WELDING 67-12 M11-81821

ROUGH GRINDING
DIAMOND TOOLS CUT GIANTS DOWN TO SIZE 67-11 M08-80516

ROUGHING /ROLLING/
SEE HOT ROLLING

ROUGHNESS
SURFACE ROUGHNESS AS A FUNCTION OF CUTTING CONDITIONS IN THE TURNING OF STEEL 67-02 M08-60987
SURFACE ROUGHNESS AND THE ENTRAPMENT OF LUBRICANT IN METAL-WORKING 67-05 M08-68725
SURFACE ROUGHNESS FORMATION IN METAL CUTTING 67-06 M19-72147
THE EFFECT OF SURFACE TREATMENT ON THE QUANTITY OF ELECTRONS ABSORBED BY THE SPECIMEN 67-07 M15-73730
APPLICATIONS AND LIMITS OF BROACHING AT HIGH CUTTING SPEEDS 67-08 M08-74755
THE EFFECT OF A SURFACES ROUGHNESS ON ITS WETTABILITY BY METALS 67-09 M15-76954
THE SIGNIFICANCE OF SURFACE PROPORTIONAL BEARING CURVES IN THE CHARACTERIZATION OF MACHINED AND DEFORMED SURFACES 67-12 M12-82942
ROUGHNESS OF FINISHED SURFACE IN GRINDING OPERATION OF HARDENED STEEL 67-12 M12-83600

ROUTING /MACHINING/
N/C ROUTER ROUTS SHOP HEADACHES 67-05 M08-68769

RUBBER, CLADDING
THE ADHESION AND BONDING OF CAOUTCHOUC-ELASTIC MATERIALS WITH SPECIAL REGARD TO RUBBER-METAL BONDING 67-11 M12-80496
RUBBER, COATINGS
THE EVALUATION OF CORROSION PROBLEMS. PT. 3 67-10 M18-79297
RUBBER FORMING
SEE RUBBER PAD FORMING
RUBBER PAD FORMING
USE OF POLYURETHANE PADS FOR COLD FORMING OPERATIONS 67-04 M07-66335
DEVELOPMENTS IN THE USE OF AVOTHANE FOR PRESSWORK 67-04 M08-67404
THE STATUS OF SHEET-METAL FORMING TECHNOLOGY 67-05 M07-69145
FORMING TITANIUM 67-06 M07-71584
RUBBER SPRINGS
SEE SPRINGS /ELASTIC/
RUBIDIUM, EXTRACTION
RECOVERY OF RUBIDIUM FROM SULFATE SOLUTIONS CONTAINING ZINC 67-02 M02-59597
RUBIDIUM, LIQUID METALS
WAVE NUMBER-DEPENDENT ELASTIC MODULI IN LIQUID METALS 67-10 M16-78444
RUBIDIUM, MECHANICAL PROPERTIES
TEMPERATURE DEPENDENCE OF THE ELASTIC CONSTANTS OF RUBIDIUM 67-07 M17-73635
RUBIDIUM, PHYSICAL PROPERTIES
THE RELATIONSHIP BETWEEN ELECTRICAL CONDUCTIVITY AND SOUND VELOCITY IN MOLTEN METALS 67-08 M15-74649
RUBIDIUM COMPOUNDS, CRYSTAL LATTICES
RADIOCRYSTALLOGRAPHIC ANALYSIS OF LOW- AND HIGH-TEMPERATURE FORMS OF RB2SO4 67-12 M13-82694
RUBIDIUM COMPOUNDS, PHASE TRANSFORMATIONS
THE RBF-CDF2 SYSTEM 67-12 M13-83160
RUBIDIUM COMPOUNDS, REDUCTION /CHEMICAL/
THERMODYNAMICS OF REDUCTION OF RUBIDIUM CHLORIDE BY SILICOCALCIUM 67-11 M03-81439
STUDY OF THE REDUCTION OF RUBIDIUM FLUROIDE BY SILICOCALCIUM 67-11 M03-81440
RUBIDIUM COMPOUNDS, SINGLE CRYSTALS
THE ELECTRON SPIN RESONANCE OF VO2 PLUS IONS
B IN TWO TYPES OF ALUMINUM ALUMS 67-11 M16-80329
RUBIDIUM COMPOUNDS, X RAY ANALYSIS
AN X-RAY DIFFRACTION STUDY OF RUBIDIUM CHLORIDE 67-11 M13-80605
RUBY, DEFECTS
PRECIPITATES IN DISK-GROWN LASER RUBIES 67-03 M13-65895
RULES /INSTRUCTIONS/
SEE CONTROL SYSTEMS
RUNNERS
GATING AND FEEDING TECHNIQUES IN PRESSURE DIECASTING 67-06 M06-70048
SPRUE AND RUNNER DESIGN 67-10 M06-78584
RUPTURE MODULUS
SEE MODULUS OF RUPTURE
RUPTURE STRENGTH
SEE CREEP RUPTURE STRENGTH
RUPTURE TESTS
RUPTURE OF BRITTLE MATERIALS 67-02 M17-58811
DETAILED DESCRIPTION OF A METHOD OF EXTRAPOLATING THE RUPTURE TIME OF AN INDUSTRIAL ALLOY 67-08 M17-76213
THE EFFECT OF GRAIN SIZE ON THE CREEP STRENGTH OF ARMCO IRON MICROSPECIMENS 67-12 M17-82188
RUPTURING
SEE BURSTING
RUST PREVENTION
SOAKING HALTS STAINLESS RUST 67-04 M12-68115
INHIBITION OF CORROSION OF STEEL IN AQUEOUS PHASE BY OIL-SOLUBLE POLAR RUST INHIBITOR 67-04 M18-66287
IN-PROCESS RUST PREVENTION 67-05 M12-69581
THE AEI/MORGAN CATHODIC PROTECTION SYSTEM FOR NAVAL VESSELS 67-05 M18-68502
EUROPEAN RESEARCH ON RUST INHIBITIVE COATINGS 67-06 M18-71069
DERUSTING CORROSION SPECIMENS. STANNOUS CHLORIDE AS AN ACID DERUSTING INHIBITOR 67-06 M18-71229
THE PAINTING OF METAL-SPRAYED STRUCTURAL STEEL 67-07 M18-73641
RUSTING
THE RELATIONSHIP BETWEEN THE DIRECTIONS OF THE GROWTH OF SURFACE RUST ON IRON AND THE ORIENTATION OF THE METAL 67-03 M18-65321
RUSTPROOFING
SEE RUST PREVENTION
RUTHENIUM, BINARY SYSTEMS
INTERACTION OF RUTHENIUM WITH TANTALUM 67-02 M13-59665
INTERACTION OF TANTALUM WITH NBRU COMPOUNDS 67-06 M13-70183
RUTHENIUM, COATINGS
SCIENCE FOR ELECTROPLATERS. PT. 114. RUTHENIUM-RHENIUM-IRIDIUM-INDIUM 67-05 M12-68493
ELECTRODEPOSITION OF RHODIUM AND RUTHENIUM FOR SLIP-RING SURFACES 67-05 M12-68826
RUTHENIUM, CRYSTAL LATTICES
HELIUM FIELD-ION MICROSCOPY OF HEXAGONAL CLOSE-PACKED METALS 67-10 M13-79554
RUTHENIUM, ELECTRICAL PROPERTIES
THE THERMAL CONDUCTIVITY AND ELECTRICAL RESISTIVITY OF POLYCRYSTALLINE METALS OF THE PLATINUM GROUP AND OF SINGLE CRYSTALS OF RUTHENIUM 67-05 M15-68210
RUTHENIUM, INTERMETALLICS
LAVES PHASES OF THE SCANDIUM GROUP ELEMENTS WITH RUTHENIUM, RHODIUM, OSMIUM, IRIDIUM, AND PLATINUM 67-02 M13-59443
EQUIATOMIC BINARY COMPOUNDS OF ZR WITH TRANSITION ELEMENTS RU, RH AND PD 67-07 M14-72655
RUTHENIUM, PHASE TRANSFORMATIONS
TEMPERATURE DEPENDENCE OF ELASTIC MODULI OF RUTHENIUM, RHENIUM, COBALT, DYSPROSIUM, AND ERBIUM., A STUDY OF THE ELASTIC ANISTROPY-PHASE TRANSFORMATION RELATIONSHIP 67-09 M17-77721
RUTHENIUM, PHYSICAL PROPERTIES
THERMIONIC WORK FUNCTION OF POLYCRYSTALLINE RUTHENIUM 67-10 M15-79568
RUTHENIUM, TERNARY SYSTEMS
INTERACTION BETWEEN THE NBRU AND TARU COMPOUNDS 67-06 M13-70185
RUTHENIUM COMPOUNDS, CRYSTAL LATTICES
CHALCOGENIDES OF THE TRANSITION ELEMENTS. PT. 5. CRYSTAL STRUCTURES OF THE DISULFIDES AND DITELLURIDES OF RUTHENIUM AND OSMIUM 67-09 M13-76446
RUTILE, BENEFICIATION
INTERACTION OF RUTILE AND GARNET WITH FLOTATION REGULATORS 67-02 M02-61714
HIGH-SPEED ELECTROSEPARATION OF FINE-GRAINED MATERIALS 67-07 M02-72778
THE ROLE OF HIGH TENSION SEPARATION IN THE BENEFICIATION OF BEACH SAND MINERALS 67-10 M02-78610
TITANIUM DIOXIDE 67-10 M02-79982
RUTILE, CRYSTAL GROWTH
GROWTH OF RUTILE --TIO2-- SINGLE CRYSTALS FROM LI2O-MOO3 FLUX 67-11 M14-80821
RUTILE, CRYSTAL LATTICES
DETERMINATION OF THE DISPLACEMENT VECTOR AT THE ANTI-PHASE BOUNDARIES IN RUTILE BY CONTRAST EXPERIMENTS IN THE ELECTRON MICROSCOPE 67-01 M13-57568
THE FINE STRUCTURE OF SPOTS IN ELECTRON DIFFRACTION RESULTING FROM THE PRESENCE OF PLANAR INTERFACES AND DISLOCATIONS. PT. 2. OBSERVATIONS ON CRYSTALS CONTAINING STACKING FAULTS 67-03 M13-65379
THE DEFECT STRUCTURE OF RUTILE CONTAINING SMALL ADDITIONS OF ALUMINIUM OXIDE 67-04 M13-68158
STUDIES OF THE DEFECT STRUCTURE OF NONSTOICHIOMETRIC RUTILE, TIO2-X 67-05 M13-68624
RUTILE, ELECTRICAL PROPERTIES
THE PROPERTIES OF CR-DOPED RUTILE FOR MICROWAVE LASERS 67-03 M16-65438
RUTILE, MAGNETIC PROPERTIES
MAGNETIC SUSCEPTIBILITY MEASUREMENTS OF RUTILE AND THE MAGNELI PHASES OF THE TI-O SYSTEM 67-05 M15-69523
RUTILE, OPTICAL PROPERTIES
ELECTROMODULATION OF THE OPTICAL CONSTANTS OF RUTILE IN THE UV 67-09 M15-77177
RUTILE, POWDER METALLURGY
INITIAL SINTERING OF RUTILE 67-09 M09-76398
RUTILE, TRANSPORT PROPERTIES
HALL EFFECT AND THERMOELECTRIC POWER IN SEMICONDUCTIVE TIO2 67-07 M16-73320
RUTILE, WELDING
STATE AND DEVELOPMENT OF WELDING MATERIAL MANUFACTURE 67-01 M11-57145

CORRELATION OF OPTICAL AND ELECTRON-OPTICAL OBSERVATIONS IN TORSION FATIGUE OF BRASS 67-02 M17-60643
INFLUENCE OF SOME DEFECTS IN STEELS UPON THE FATIGUE STRENGTH 67-03 M17-65824
FATIGUE STRENGTH OF LOW-ALLOY STEEL WELDED JOINTS 67-04 M17-66565
AN INVESTIGATION OF THE FATIGUE BEHAVIOR OF 18 PER CENT NICKEL MARAGING STEEL 67-04 M17-66928
THE EFFECT OF THE FREQUENCY OF IMPACT ON THE FATIGUE LIFE OF STEEL 67-05 M17-69616
CRACK PROPAGATION AT STRESSES BELOW THE FATIGUE LIMIT 67-06 M17-71084
INFLUENCE OF THE TYPE OF LOADING ON THE RESULTS OF FATIGUE TESTS ON STEELS 67-06 M17-71511
FATIGUE IN COPPER SINGLE CRYSTALS AND A NEW MODEL OF FATIGUE IN FACE-CENTERED CUBIC METALS 67-06 M17-71516
A STUDY ON THE ANALYSIS OF FATIGUE FRACTURE 67-06 M17-72146
THE ENDURANCE OF WELDED JOINTS IN LOW ALLOY STEELS 67-07 M13-73422
SOME FACTORS AFFECTING THE FATIGUE STRENGTH OF FILLET WELDS 67-08 M17-75363
STATISTICAL INTERPRETATION OF THE ENDURANCE CHARACTERISTICS OF SPOT WELDED JOINTS IN ALUMINIUM ALLOY AMG6 67-09 M17-77234
CHARACTERISTICS OF FATIGUE DIAGRAMS IN CONDITIONS OF FRETTING CORROSION 67-11 M17-80584
CORRELATION OF FATIGUE LIMIT WITH TRUE STRESS--TRUE STRAIN BEHAVIOR 67-12 M17-82145
COMPARISON OF FATIGUE PROPERTIES OF SINGLE CRYSTALS AND POLYCRYSTALS 67-12 M17-82542
FATIGUE OF METALS--WHERE IT STANDS TODAY 67-12 M17-83236

S N DIAGRAMS, RADIATION EFFECTS
RADIATION EFFECTS ON CREEP RUPTURE AND FATIGUE STRENGTH OF PURE ALUMINUM 67-07 M17-72685

SACRIFICIAL ANODES
ALUMINIUM AS SACRIFICIAL ANODE FOR CATHODIC PROTECTION. PT. 3. BEHAVIOUR IN ENVIRONMENT BASED ON CALCIUM HYDROXIDE 67-01 M18-58733
TESTS ON THE EFFECTS OF INDIUM FOR HIGH PERFORMANCE ALUMINUM ANODES 67-03 M18-65477
MARINE ANODES.. THE OLD AND NEW CATHODIC PROTECTION FOR OFFSHORE STRUCTURES 67-04 M18-66314
OFFSHORE MAINTENANCE PROGRAM--CORROSION PROTECTION VITAL IN GULF OF MEXICO 67-04 M18-66315
EUROPEAN RESEARCH ON RUST INHIBITIVE COATINGS 67-06 M18-71069
SACRIFICIAL ZINC RIBBON ANODES--CATHODIC PROTECTION WITH RIBBON TYPE ZINC ANODES 67-06 M18-72334

SACRIFICIAL ANODES, POLARIZATION /ELECTRODES/
ZINC ANODES FOR CORROSION PROTECTION OF DOMESTIC HOT WATER STORAGE TANKS 67-09 M18-77667

SALINE WATER
SEE SALT WATER

SALT /SODIUM CHLORIDE/
SEE SODIUM CHLORIDE

SALT BATH FURNACES
FURNACE VERSATILITY IS KEY TO SUCCESS FOR NEW COMMERCIAL HEAT TREATER 67-05 M10-69200
NEW DEVELOPEMENTS IN SALT BATH HEAT TREATING 67-12 M10-81943

SALT BATHS
QUENCH HEATING OF STRUCTURAL STEELS IN MOLTEN NACL AND KCL SALTS 67-02 M10-60851
I/USALT BATH DESCALING AND PICKLING OF NICKEL ALLOY WIRE 67-05 M12-68671
ELECTROLYTIC TINNING OF STEEL STRIP 67-06 M12-72194
NEW SALT BATHS FOR LOW-TEMPERATURE HEAT TREATMENT OF STEEL 67-07 M10-72666
TENIFER PROCESS OF SALT BATH NITRIDING 67-07 M10-72906
PROCESS TO CONTROL ACTIVE CARBURIZING BATHS 67-07 M10-74213
HEATING OF STRUCTURAL STEELS TO QUENCHING TEMPERATURE IN MOLTEN NACL AND KCL 67-08 M10-76109
A RAPID METHOD OF DETERMINING THE DECARBURIZING ACTIVITY OF FUSED SALTS 67-09 M10-78158
DESCALE METAL PARTS FASTER WITH MOLTEN SALT BATHS 67-09 M12-77700

SALT BATHS, CORROSION ENVIRONMENTS
THE CORROSION OF MILD STEEL IN BOILING SALT SOLUTIONS 67-11 M18-80706

SALT BATHS, HEAT TREATMENT
QUENCHING SALT FOR THE HEAT TREATMENT OF HIGH-SPEED STEEL AND POSSIBILITIES OF REDUCING ITS DECARBURIZING EFFECT 67-02 M10-58862

SALT POT FURNACES
SEE SALT BATH FURNACES

SALT ROASTING
SEE CHLORIDIZING

SALT SPRAY TESTS
THE BEHAVIOR OF VARIOUS COATINGS ON TUBULAR DOLPHINS IN SEA WATER 67-02 M18-59107
CORROSION TESTING FOR 18 CR STAINLESS STEEL 67-02 M18-59162
SOAKING HALTS STAINLESS RUST 67-04 M12-68115
THE CORROSION OF METALS IN THE WATER OF THE DEAD SEA 67-04 M16-67431
LABORATORY COATING TESTS--SHELL INVESTIGATES COATINGS FOR OFFSHORE USE 67-04 M18-66318
TESTING OF ANODIC COATINGS ON ALUMINUM 67-04 M18-67791
EVALUATION OF ACCELERATED CORROSION TESTS FOR ANODIZED ALUMINIUM 67-05 M18-68823
THE EFFECT OF THE NATURE OF THE CATHODE PROCESS ON STRESS-CORROSION CRACKING OF HIGH-STRENGTH STEELS 67-06 M18-70178
HOT CORROSION OF GAS TURBINE ALLOYS 67-06 M18-70491
HOW METALS RESIST SEA WATER 67-08 M18-74741
NEW ACCELERATED CORROSION TESTS FOR SURFACE-PROTECTED STEEL SHEET. PT. 3. QUANTITATIVE CORROSION TESTS ON PHOSPHATED AND PAINTED SHEET 67-08 M18-75665
NEW ACCELERATED METHODS FOR TESTING THE CORROSION RESISTANCE OF SURFACE-PROTECTED STEEL SHEET. PT. 2. CORROSION TESTING OF PHOSPHATIZED PAINTED STEEL USING THE IMMERSION PROCESS 67-09 M18-77193
BEHAVIOR OF METAL SCREWS EMBEDDED IN WOOD AND IMMERSED IN SEA WATER 67-09 M18-78059

SALT WATER
SEE ALSO SEA WATER

SALT WATER, CORROSION ENVIRONMENTS
THE BEHAVIOR OF VARIOUS COATINGS ON TUBULAR DOLPHINS IN SEA WATER 67-02 M18-59107
CORROSION OF BERYLLIUM BY SALT WATER 67-03 M18-65476
STUDIES IN THE CORROSION OF ALUMINIUM BRONZE IN SALT WATER 67-06 M18-70231
OIL FIELD BRINE VESSELS. CATHODIC PROTECTION FOR BRINE HANDLING EQUIPMENT 67-06 M18-71228
EVALUATION OF ALUMINUM PANELS EXPOSED IN THE PACIFIC OCEAN AT 2340 FEET FOR SIX MONTHS 67-07 M18-72483

SALTS /INORGANIC/
SEE INORGANIC SALTS

SAMARIUM, BINARY SYSTEMS
CRYSTAL STRUCTURE OF SM5GE4 67-05 M13-69090
THE ALUMINIUM-RICH PARTS OF THE ALUMINIUM-SAMARIUM AND ALUMINIUM-DYSPROSIUM SYSTEMS 67-06 M13-71059
HIGH-TEMPERATURE VAPORIZATION STUDIES BY MASS SPECTROMETRY. PT. 2. THE SAMARIUM-CARBON SYSTEM 67-11 M15-80303
PHASE RELATIONS AND THERMODYNAMIC PROPERTIES FOR THE SAMARIUM-ZINC SYSTEM 67-12 M13-82577

SAMARIUM, EXTRACTION
EXTRACTION OF RARE EARTHS FROM HYDROCHLORIC SOLUTIONS BY AN EXTRACTANT MIXTURE 67-08 M03-75872

SAMARIUM, GETTERS
A NEW GETTER SYSTEM FOR OPAQUE VACUUM TUBES, USING SAMARIUM OR THULIUM 67-06 M20-71493

SAMARIUM, INTERMETALLICS
THE CRYSTAL STRUCTURE OF CEFE7, PRFE7, NDFE7 AND SMFE7 67-02 M13-60888
ELECTRICAL RESISTIVITY OF SMAG, SMCU AND SMAU 67-09 M15-77455
PROPERTIES OF SN ALLOYS CONTAINING SM, EVIDENCE FOR A NEW PHASE 67-12 M13-82513

SAMARIUM, MAGNETIC PROPERTIES
ELECTRICAL RESISTIVITY, THERMAL CONDUCTIVITY AND MAGNETIC SUSCEPTIBILITY OF POLYCRYSTALLINE SAMARIUM AT LOW TEMPERATURES 67-04 M15-68152

SAMARIUM, REACTIONS /CHEMICAL/
REDUCTION OF SAMARIUM IONS ON A GALLIUM CATHODE LAYER 67-07 M03-73477

SAMARIUM, REFINING
REMOVAL OF CERIUM FROM SAMARIUM BY THE AMALGAM METHOD 67-06 M03-70158

SAMARIUM, THERMAL PROPERTIES
SPECIFIC HEAT OF LANTHANUM, PRASEODYMIUM, AND

SAMARIUM METALS BETWEEN 3 AND 25 K
67-11 M15-81386

SAMARIUM, X RAY ANALYSIS
THE EFFECT OF COLD WORK --FILING-- ON THE X-RAY DIFFRACTION PATTERNS OF SOME RARE-EARTH MEATLS
67-04 M13-66163

SAMARIUM COMPOUNDS, NUCLEAR PROPERTIES
NUCLEAR MAGNETIC RESONANCE AND MAGNETIC SUSCEPTIBILITY OF SMAL3
67-12 M16-81899

SAMARIUM COMPOUNDS, PHASE TRANSFORMATIONS
HIGH-PRESSURE AND HIGH-TEMPERATURE TRANSFORMATIONS OF RARE EARTH MONOCHALCOGENIDES
67-07 M14-72452

SAMPLING
THE PROBLEMS OF HIGH OXYGEN CONTENT IN LIQUID STEEL AND POSSIBLE METHODS OF CONTROL
67-07 M19-73100
CONTROL OF COMPOSITION IN ARC FURNACES
67-09 M04-76423

SAND /MATERIAL/
SEE FOUNDRY SANDS

SAND CASTING
SEE ALSO DRY SAND CASTING
FULL MOLD PROCESS CASTING
GREEN SAND CASTING
SHELL MOLD CASTING
FOUNDRY TECHNIQUE USING CHROMITE SANDS
67-01 M06-58475
DESIGNING WITH ALUMINIUM 67-01 M06-58665
TEMPERATURE DISTRIBUTIONS IN SOLIDIFYING INGOT AND RESIDUAL STRESSES 67-01 M17-57910
CASTINGS OF 30KHN2 ALLOY 67-02 M04-61228
CASTING LINING TILES INTO PREHEATED SAND MOLDS
67-02 M05-61803
DIMENSIONAL ACCURACY AND SURFACE FINISH OF CAST ROCK BITS 67-02 M06-61194
IMPROVEMENT IN TECHNOLOGY FOR PRODUCING HOLLOW WATER-COOLED MANDRELS OF A PIERCING MILL
67-02 M07-61959
EXPERIMENTAL STUDY OF THE THERMAL DIFFUSIVITY OF MOLDING MATERIALS 67-02 M15-59091
EVALUATION OF SAND CAST ALUMINUM ALLOY TEST BAR DESIGN 67-03 M06-65004
THE DIMENSIONING OF GATING SYSTEMS IN THE SAND AND CHILL CASTING OF HEAVY METALS
67-03 M06-65191
ONE SAND MIX FOR SEVERAL ALLOYS
67-03 M06-65415
THE FORMATION OF SCABBING IN STEEL CASTINGS AND TECHNIQUE TO PREVENT THIS PHENOMENON
67-03 M06-65817
CASTINGS IN HIGH CHROMIUM ALLOY KH30N2
67-04 M04-68089
THE EFFECT OF MOLD MATERIAL, MOLDS AND THE METAL ON THE PENETRATION OF STEEL CASTINGS
67-04 M06-66582
PENETRATION PHENOMENA IN STEEL CASTING WITH VARIOUS MIXTURES OF MOLD SANDS 67-04 M06-66583
THE DEVELOPMENT OF STEEL CASTING ALLOYS AS REFLECTED BY NEW STANDARDS 67-04 M06-66673
ON CAUSES OF THE CHANGE OF DIAMETER OF SMALL SPHERICAL CASTINGS DURING SOLIDIFICATION IN SAND MOLD 67-04 M06-67115
MECHANICAL BURN-ON FORMATION ON THE HIGH ALLOY STEEL CASTINGS 67-04 M06-67946
EXPERIENCE IN CASTING NEEDLE-TYPE TUBES AND HEAT EXCHANGE BLOCKS 67-04 M06-68096
IMPROVING THE MANUFACTURE OF HOLLOW WATER-COOLED MANDRELS FOR THE SMALL AUTOMATIC PIERCING BENCH
67-04 M07-67780
THERMAL EFFICIENCY OF RISERS AND THE CASTING YIELD
67-05 M06-68726
COMPARING THE PROPERTIES AND STRUCTURE OF GRAY IRON IN CASTINGS AND SPECIMENS 67-05 M06-69040
NEW FOUNDRY TECHNIQUES FOR PRODUCING LIGHT ALLOY PREMIUM CASTINGS 67-05 M06-69108
MODERN METHODS OF MOLDING FOR ONE-OF-A-KIND PARTS AND MASS PRODUCTION 67-05 M06-69582
CONTRIBUTION TO THE STUDY OF THE BEHAVIOR OF COPPER ALLOY INSERTS IN HEAT TREATED A-S10G CASTINGS 67-06 M06-71710
INFLUENCE OF THE POURING TEMPERATURE ON THE SURFACE FINISH OF STEEL CASTINGS POURED IN SILICATE-BONDED MOULDS 67-08 M06-74540
SOURCES OF BLOWHOLES IN CYLINDER HEAD CASTINGS FOR THE DT-54 ENGINE 67-08 M06-74544
RESEARCH INTO THE PROPERTIES OF CAST HIGH-SPEED STEELS 67-08 M06-75460
CASTING LINING TILES IN HEATED SAND MOULDS
67-09 M05-78075
EFFECT OF THE NATURE OF ALLOY SOLIDIFICATION ON BLOWHOLE FORMATION IN CASTINGS
67-09 M06-77869
PRESSURE-TIGHT SAND MOLD CASTINGS OF CU AND CU ALLOYS 67-10 M06-78647
PILOT CANOPY FRAME CASTING CUTS COSTS OVER 50 PER CENT 67-10 M06-78774
EFFECT OF MOULD MATERIALS AND MOULD COATINGS ON DISRUPTION OF NODULAR GRAPHITE
67-10 M06-79030
NODULAR IRON MELTING PRACTICE AT FORD MOTOR COMPANY LTD, DAGENHAM 67-10 M06-79242
PROBLEMS ASSOCIATED WITH THE USE OF COPPER ALLOY CASTINGS IN MARINE SERVICE 67-10 M06-79313
SCAB FORMATION 67-10 M06-79394
EFFECT OF RISERING ON THE MICROPOROSITY OF IRON CASTINGS 67-10 M06-79560
SWEDISH AUTOMATIC-MOLDING PLANT
67-11 M06-80238
HOT TEARING OF ALUMINUM ALLOYS 67-11 M06-81189
PHASE CONSTITUTION OF BURN-ON ON CARBON STEEL CASTINGS 67-12 M06-81884
CASTING PUMP ROTOR WHEELS OF BR. ONF 9-2.5-0.2 BRONZE ALLOY IN SAND MOLDS 67-12 M06-81989
INTERACTION OF LIQUID TIN BRONZE WITH MOLD MOISTURE
67-12 M06-82092
CAST CUTTING DIES IN TOOLMAKING
67-12 M06-83574

SAND CASTING, AUTOMATION
METAL CASTING INNOVATED BY CHRYSLERS NEW FOUNDRY
67-07 M06-73838
MALLEABLE IRON CASTING AUTOMATED
67-09 M06-76515
AUTOMATIC CASTING OF MALLEABLE IRON
67-10 M06-79298

SAND CASTINGS
SEE ALSO SHELL MOLD CASTINGS

SAND CASTINGS, CLEANING
VIBRATION CLEANING OF CASTINGS 67-01 M12-57462
VIBRATION CLEANING OF CASTINGS 67-06 M12-70750

SAND CASTINGS, DEFECTS
FORMATION AND ELIMINATION OF BURN-ON ON CARBON STEEL CASTINGS 67-04 M06-66419
INFLUENCE OF CARBON, SILICON AND BORON ON HOT TEARING IN WHITE CAST IRON 67-05 M06-68951

SAND CASTINGS, DESIGN
SAND CASTINGS AND GRAVITY DIE CASTINGS RE-DESIGNED FOR PRESSURE CASTING 67-06 M06-70801

SAND CASTINGS, MECHANICAL PROPERTIES
CONTRIBUTION TO THE CAST CU-ZN-SI ALLOYS
67-01 M06-57238
EFFECT OF CHEMICAL COMPOSITION, MELTING CONDITIONS, TEEMING AND SOLIDIFICATION ON THE MECHANICAL PROPERTIES OF NEW ALUMINUM-MAGNESIUM ALLOYS
67-04 M17-66413
IMPACT RESISTANCE OF SAND CAST ALUMINIUM BRONZE --BS1400..AB2-- 67-06 M17-69951
EFFECT OF IRON CONTENT IN SAND-CAST COMPLEX BRASS BS1400..HTB2 AND HTB3 67-07 M17-74256

SAND CASTINGS, MICROSTRUCTURE
THERMODYNAMIC BASIS OF THE GRAPHITIZATION OF GRAY CAST IRON. PT. 1 67-04 M06-66098

SAND CASTINGS, PHYSICAL PROPERTIES
PROPERTIES OF COMMERCIAL CASTING ALLOYS
67-08 M06-74809

SAND CASTINGS, REGENERATORS
CASTING NEEDLE-TYPE PIPES AND THERMAL UNITS
67-02 M06-61235

SAND CASTINGS, SHRINKAGE
INFLUENCE OF GREEN MOLD PROPERTIES ON SHRINKAGE OF IRON CASTINGS 67-02 M06-61233
INFLUENCE OF GREEN MOLD PROPERTIES ON THE SHRINKAGE OF IRON CASTINGS 67-04 M06-68094

SAND CASTINGS, SURFACE PROPERTIES
INFLUENCE OF THE POURING TEMPERATURE ON THE SURFACE FINISH OF STEEL CASTINGS POURED IN SILICATE-BONDED MOULDS 67-08 M06-74540

SAND CASTINGS, WELDING
THE WELDING OF HIGH ALLOY MATERIALS RELEVANT TO PRESSURE STEAM-REFORMING OF NAPHTHA
67-06 M11-70537

SAND MOLDS
THE EFFECT OF MOLD MATERIAL, MOLDS AND THE METAL ON THE PENETRATION OF STEEL CASTINGS
67-04 M06-66582
PENETRATION PHENOMENA IN STEEL CASTING WITH VARIOUS MIXTURES OF MOLD SANDS 67-04 M06-66583

SAND MOLDS, MATERIALS

SAND MOLDS
CONTRIBUTION TO THE STUDY OF THE BEHAVIOR OF COPPER ALLOY INSERTS IN HEAT TREATED A-S10G CASTINGS 67-06 M06-71710
SAND MOLDS, MECHANICAL PROPERTIES
SOME ASPECTS OF THE PROBLEMS POSED BY THE USE OF CEMENT-BONDED SAND IN STEEL FOUNDRIES 67-09 M06-77836
SANDBLASTING
THE POWER ECONOMICS OF THE USE OF SAND BLASTING NOZZLES IN FOUNDRIES 67-04 M06-67255
THE CONTINUOUS ULTRASONIC CLEANING OF WIRE AND STRIP 67-10 M12-79958
SANDBLASTING 67-11 M12-80577
SANDWICH CONSTRUCTION
SECRET IN ANODIC OXIDIZING AND BLACKING 67-01 M12-58005
ROLLING LARGE-DIMENSION SHEET SANDWICHES CLAD IN TOUGH-DEFORMING STEELS 67-01 M12-58182
COMPOSITE MATERIALS--THE BUILDING-BLOCK TECHNOLOGY 67-01 M20-57399
THIN STEEL SANDWICH FOR THE WOODWORKING INDUSTRY 67-02 M12-58853
STRESSED SKIN STRUCTURES IN SANDWICH CONSTRUCTION 67-04 M09-66142
COMPOSITE ROLLING OF STRUCTURAL PANELS 67-05 M11-68444
BOEING PUSHES TITANIUM AIRFRAME EFFORT 67-06 M20-70603
A SIMPLE TECHNIQUE FOR SHOCK DEFORMING METAL FOILS 67-08 M08-74393
DIFFUSION-BONDING OF FORMABLE STRUCTURAL PANELS BY COMPOSITE ROLLING 67-11 M14-80901
ANOMALOUS ELECTRIC CONDUCTION PHENOMENA OF THIN ALUMINUM OXIDE FILMS IN VACUUM 67-12 M15-83547
HONEYCOMB AIRPLANE STRUCTURES 67-12 M20-83380
SANDWICH CONSTRUCTION, BONDING
HOT SPRAY ADHESIVES SPEED PRODUCTION OF SANDWICH PANELS 67-07 M11-73845
SANDWICH CONSTRUCTION, MECHANICAL PROPERTIES
EDGEWISE COMPRESSIVE PROPERTIES OF TITANIUM AND NICKEL-BASE SANDWICH CONSTRUCTIONS AT ELEVATED TEMPERATURES 67-05 M17-68932
STRUCTURAL REINFORCED PLASTIC SANDWICH FACINGS VERSUS OTHER COMPOSITE STRUCTURES 67-06 M17-70619
SANDWICH PANELS
SEE PANELS
SANDWICH CONSTRUCTION
SANDWICH PLATING
SEE DUPLEX PLATING
SANDWICH ROLLING
DIFFUSION-BONDING OF FORMABLE STRUCTURAL PANELS BY COMPOSITE ROLLING 67-02 M11-61841
SANFORD PROCESS
SEE HARD ANODIZING
SAP PROCESS
SEE DISPERSION HARDENING
POWDER METALLURGY
SAPPHIRE, COMPOSITE MATERIALS
FABRICATION AND EVALUATION OF SAPPHIRE WHISKER REINFORCED ALUMINUM COMPOSITES 67-12 M14-81737
SAPPHIRE, CRYSTAL LATTICES
THE USE OF X-RAY TOPOGRAPHY FOR THE OBSERVATION AND CHARACTERIZATION OF GROSS IMPERFECTIONS IN SAPPHIRE SINGLE CRYSTALS 67-08 M13-75995
SAPPHIRE, MECHANICAL PROPERTIES
THE EFFECT OF SLIDING SPEED ON THE RATE OF WEAR OF SAPPHIRE ON STEEL 67-01 M17-57207
STRENGTH AND STRUCTURE OF VERY FINE SAPPHIRE WHISKERS 67-03 M17-65342
ROOM AND ELEVATED TEMPERATURE STRENGTH OF ALPHA-AL203 WHISKERS AND THEIR STRUCTURAL CHARACTERISTICS 67-08 M17-76141
A NEW METHOD AND TECHNIQUES FOR TENSION TESTING WHISKERS 67-08 M17-76143
THERMOELASTIC STRESS PULSES RESULTING FROM PULSED ELECTRON BEAMS 67-10 M17-79410
SAPPHIRE, SINGLE CRYSTALS
STRENGTHENING OF SAPPHIRE BY PRECIPITATES CONTAINING TITANIUM 67-07 M10-72829
SAPPHIRE, SPHERES
DEFORMATION THEORY OF HOT PRESSING 67-11 M17-81090
SAPPHIRE, THERMAL PROPERTIES
AN APPARATUS FOR MEASURING THERMAL EXPANSION AT ELEVATED TEMPERATURES 67-08 M15-76156
SATELLITES /ARTIFICIAL/
SEE ALSO COMMUNICATION SATELLITES
MAGNESIUM CASTING ALLOYS FOR AIRCRAFT STRUCTURES 67-06 M01-70671
SATELLITES /ARTIFICIAL/, MATERIALS
MAKING SATELLITE STRUCTURES FROM BERYLLIUM-LOCKALLOY 67-05 M01-68681
SATURATION /MAGNETIC/
PRECIPITATION PROCESSES IN ALNICO 67-01 M14-58661
EFFECT OF SPECIMEN SIZE ON FORMATION OF MAGNETIC PROPERTIES IN CO-PT ALLOY 67-04 M15-66483
MAGNETIZATION PROCESSES IN THE HIGH-FIELD RANGE OF FERROMAGNETICS MADE BY PRESSING FERROMAGNETIC PARTICLES 67-04 M15-66484
RELATIONSHIP OF MAGNETIZATION SATURATION AND ELECTRICAL RESISTANCE OF A NI-ZN-CO FERRITE WITH AN INDUCED RIGHT-ANGLED HYSTERESIS LOOP TO PHASE COMPOSITION 67-04 M15-66496
CRYSTAL ANISOTROPY AND SATURATION MAGNETIZATION OF HARD FERRITES WITH A COMPOSITION NEAR THE M-COMPOUND PREPARED BY MEANS OF THE VERNEUIL METHOD 67-06 M05-70996
THE TEMPERATURE DEPENDENCE OF THE INTERNAL DEMAGNETIZING FACTOR OF NI 67-08 M15-75646
MAGNETIC PROPERTIES OF THE ALLOY FE-RH IN STRONG MAGNETIC FIELDS 67-09 M15-76784
EFFECTS OF CARBON CONTENT ON THE PROPERTIES OF TUNGSTEN CARBIDE-TANTALUM CARBIDE-10 PER CENT COBALT CEMENTED CARBIDE 67-10 M09-79978
INVESTIGATION OF MAGNETIZATION CURVES OF UNIAXIAL FILMS 67-10 M15-79458
FERROMAGNETIC AND SPIN-WAVE RESONANCE IN THIN FILMS OF FE-NI ALLOYS 67-10 M15-79471
MAGNETIC PROPERTIES IN THE COLD WORKED STATE OF IRON-NICKEL-CHROMIUM ALLOYS CONTAINING 35 WT PER CENT NI AND 0-20 WT PER CENT CR 67-11 M15-81071
PREPARATION AND MAGNETIC PROPERTIES OF COBALT DISULFIDE 67-11 M15-81684
SATURATION /MAGNETIC/, ALLOYING EFFECTS
EFFECT OF ALUMINUM ON THE SATURATION MOMENTS OF FE-NI ALLOYS 67-07 M15-73543
IRON-COBALT ALLOYS WITH ADDITIONS OF SMALL AMOUNTS OF RARE EARTH ELEMENTS PR, GD OR HO 67-08 M15-75948
SATURATION /MAGNETIC/, TEMPERATURE EFFECTS
CONTRIBUTION TO THE TEMPERATURE DEPENDENCE OF THE MAGNETIC PROPERTIES OF PERMANENT MAGNET MATERIALS 67-08 M15-75987
SATURATION /MATERIAL COMPOSITION/
SEE SUPERSATURATION
SATURATION MAGNETIZATION
SEE SATURATION /MAGNETIC/
SAW TEMPERING FURNACES
SEE TEMPERING FURNACES
SAWING
CUTTING RESISTANCE OF CERTAIN GRADES OF STEEL ON HOT SAW SHEARS 67-02 M08-62267
HIGHER EFFICIENCY OF PIPE AND TUBE CUTTING 67-10 M08-79784
SAWING MACHINES
CUTTING THICK PLATE 67-08 M07-75947
SAWS
SEE ALSO BAND SAWS
THE RESISTANCE AND LIFE OF BLADES FOR HOT SAWING OF METAL 67-04 M08-66629
SAWS, HEAT TREATMENT
HEAT TREATMENT OF SAW BLADES USING FUSED SALTS 67-10 M10-78439
ISOTHERMAL ANNEALING OF SAW CHAINS 67-11 M10-80972
HEAT TREATMENT OF COMB STRIP WITH APPLICATION OF FUSED SALTS 67-12 M10-83437
SAWS, SERVICE TIME
INCREASING THE LIFE OF HOT SAW BLADES 67-08 M01-76278
INCREASING THE STRENGTH OF DISKS FOR HOT-CUTTING SAWS 67-10 M17-79271
SAWS, WELDING
CONDENSER WELDING OF TOOL STEELS AND CERMETS 67-07 M11-72740
CAPACITOR DISCHARGE WELDING OF TOOL STEELS AND HARD ALLOYS 67-12 M11-82319
SCABS /DEFECTS/
THE FORMATION OF SCABBING IN STEEL CASTINGS AND TECHNIQUE TO PREVENT THIS PHENOMENON 67-03 M06-65817
EFFECT OF TECHNOLOGICAL PARAMETERS ON THE DEFORMATION OF METAL AND YIELD IN ROLLING

CONTINUOUS CAST FLAT INGOTS 67-05 M07-68328
SURFACE COLOR OF THE MOLD INFLUENCES SCABBING 67-06 M06-71675
INFLUENCE OF TECHNOLOGICAL PARAMETERS ON METAL DEFORMATION AND YIELD OF SOUND OUTPUT IN ROLLING FLAT INGOTS FROM CONTINUOUS CASTING 67-07 M07-72856
CYLINDER BLOCK CASTINGS DEFINNED ON TRANSFER MACHINE 67-09 M07-78034
SCAB FORMATION 67-10 M06-79394
SURFACE FINISH ON COLD-ROLLED RIMMING STEEL SHEET 67-11 M04-80916
PROBLEMS OF POROSITY IN CAST STEEL. PT. 3 67-12 M06-83086

SCALE /CORROSION/
MECHANISM OF EVAPORATION OF SULFUR FROM SULFIDE SCALES 67-02 M14-58895
EFFECT OF HEAT TREATMENTS INVOLVING HEATING THROUGH THE CRITICAL TEMPERATURE RANGE ON THE SUBSEQUENT SCALING AND GROWTH PROPERTIES OF FLAKE GRAPHITE CAST IRONS AT 400 AND 500 C 67-02 M18-60526
TEST ON SULFIDE CORROSION CRACKING OF WELDABLE HIGH-STRENGTH STRUCTURAL STEELS IN OIL REFINING PLANTS 67-02 M18-60716
INVESTIGATION OF THE PARTICIPATION OF SULPHUR IN REACTION DIFFUSION ON THE FORMATION OF A SULPHIDE SCALE ON NICKEL 67-02 M18-61164
STRUCTURE OF THIN OXIDE FILMS ON IRON-SILICON ALLOYS 67-02 M18-61941
SCALING RATE OF PURE IRON AND MILD STEEL IN OXYGEN, WATER VAPOR AND CARBON DIOXIDE AT TEMPERATURES RANGING FROM 850 TO 1000 C 67-02 M18-62011
THE INDENTATION OF SCALE AND BASE METAL IN LOW-ALLOYED STEELS 67-02 M18-62012
EFFECT ON IRON OF COMBUSTION GASES OF CONVENTIONAL GASEOUS FUELS 67-02 M18-62018
EFFECT OF LIME ON THE TRANSFORMATION OF SCALES DURING COOLING 67-04 M18-66989
THE BEHAVIOR OF AUSTENITIC CR-NI STEELS IN CO2 67-04 M18-67712
THE MECHANISM OF THE HIGH-TEMPERATURE OXIDATION OF NI 67-04 M18-67920
THE PART PLAYED BY NITROGEN IN THE OXIDATION OF TITANIUM IN AIR AT HIGH TEMPERATURES 67-05 M18-69052
THE FORMATION OF SCALE ON IRON-COPPER AND IRON-COBALT ALLOYS HEATED IN AIR 67-05 M18-69256
SEAMY DEFECTS IN HOT STRIP FROM CAPPED STEEL 67-06 M07-72277
IRON POWDER FROM PICKLING WASTES 67-06 M09-72214
THE RESEARCH BACKGROUND OF THE THERMALLOY GRADES OF CHROMIUM-NICKEL-IRON HEAT-RESISTING ALLOYS 67-06 M17-70529
OXIDATION OF ZIRCALOY-2 AT 600 TO 800 C 67-06 M18-70782
THE EFFECT OF MILLSCALE ON THE BASIC OXYGEN LD PROCESS 67-07 M04-72444
HEATING IN THE DROP FORGE. PT. 4. FORMATION AND PROPERTIES OF SCALES ON IRON-BASE ALLOYS 67-07 M07-73618
BOILER SCALE REDUCED BY MAGNETIC TREATMENT 67-07 M18-74247
RESISTANCE OF HEATING ELEMENTS TO ATMOSPHERES CONTAINING CARBON 67-08 M18-74973
SCALE FORMATION ON STEEL AT TEMPERATURES OF INTEREST IN HOT WORKING 67-08 M18-75517
DECARBURIZING AND SCALING OF TOOL STEEL BILLETS WHEN HEATED IN INDUCTION FURNACES 67-09 M10-76412
SUBSTRUCTURES IN OXIDE SCALES ON NICKEL, COBALT, AND NICKEL-COBALT ALLOYS 67-09 M13-76620
STUDY OF THE STATE OF HEMATITE IN IRON SCALE BY SPECTROSCOPY 67-09 M13-77774
SIZE EFFECTS DURING OXIDATION AND SUBSEQUENT REDUCTION OF STEEL WIRE 67-09 M18-77355
A STUDY ON THE INTERNAL OXIDATION OF LOW-ALLOY STEELS 67-09 M18-78234
RAPID HEATING OF STEEL FOR HOT WORKING. PT. 1 67-10 M10-79087
SURFACE FINISH ON COLD-ROLLED RIMMING STEEL SHEET 67-11 M04-80916
A GRAPHICAL ANALYSIS OF THE RATE OF SCALING UNDER VARYING CONDITIONS OF TEMPERATURE AND TIME 67-12 M10-83172
THE OBSERVATION OF MARKERS DURING THE OXIDATION OF COLUMBIUM 67-12 M14-82749
THE PRESENT STATE OF DEVELOPMENT OF METAL SPRAYING TECHNIQUES. PT. 4 67-12 M18-82465
KINETICS OF THE OXIDATION OF TANTALUM BY WATER VAPOR 67-12 M18-82568
SCALE BLISTERS ON FERROUS ALLOYS 67-12 M18-83216
INFLUENCE OF CRYSTAL ORIENTATION ON RUST FORMATION ON IRON SURFACES 67-12 M18-83513

SCALE /CORROSION/, ALLOYING EFFECTS
INTERNAL OXIDATION OF NICKEL ALLOYS CONTAINING A SMALL AMOUNT OF CHROMIUM 67-09 M18-78255
EFFECT OF SILICON ON THE SCALE RESISTANCE AND STRUCTURAL STATE OF CHROMIUM-MANGANESE STEELS 67-10 M18-79327

SCALE /CORROSION/, COMPOSITION EFFECTS
THE OXIDATION OF CB-ZR AND CB-ZR-RE ALLOYS IN OXYGEN AT 1000 C 67-03 M18-65094
THE SCALING OF BINARY ALLOYS OF TITANIUM CONTAINING 5 WT. PER CENT OF ALUMINIUM, COPPER, OR COBALT IN CARBON DIOXIDE AT 1000 C 67-06 M18-70794

SCALE /CORROSION/, HEATING EFFECTS
INVESTIGATION OF SCALE FORMING DURING HEATING OF METAL IN HOLDING FURNACES OF LIGHT SECTION AND ROD MILLS 67-05 M18-68334
INVESTIGATING SCALING WHILE HEATING METAL IN CONTINUOUS FURNACES OF LIGHT-SECTION AND WIRE MILLS 67-07 M18-72862
REVIEW OF THE BASES AND METHODS OF LOW-SCALE HEATING 67-09 M18-76692
RAPID HEATING OF STEEL FOR HOT WORKING. PT. 3. THE METALLURGICAL EFFECTS OF RAPID HEATING 67-11 M10-81364

SCALE /CORROSION/, PHASES /STATE OF MATTER/
STRUCTURAL FEATURES OF THE HAEMATITE OF IRON SCALE RELATED TO THE CONDITIONS UNDER WHICH IT WAS FORMED 67-02 M13-61924

SCALE /CORROSION/, POROSITY
THE MECHANISM OF SCALE FORMATION ON METALS AND BINARY ALLOYS 67-10 M18-79096

SCALE /CORROSION/, POWDER METALLURGY
PRODUCTION OF IRON POWDER FROM ALLOY STEEL SCALE BY REDUCTION WITH CONVERTED NATURAL GAS 67-02 M09-62201
METHOD FOR PRODUCTION OF IRON POWDERS BY REDUCTION WITH CARBIDES 67-08 M09-74302
PRODUCTION SCALE TECHNOLOGY FOR IRON POWDER AT THE BROVARSK FACTORY 67-12 M09-83563

SCALE /CORROSION/, REDUCTION /CHEMICAL/
COMBINED REDUCTION OF IRON SCALE IN VERTICAL, CONTINUOUS-TYPE MUFFLE FURNACE 67-07 M09-72501

SCALE REMOVAL
SEE DESCALING

SCALPING
THE DRAWING OF COPPER WIRE. PT. 3. PICKLING AND SCALPING 67-04 M12-66712

SCANDIUM, ALLOYING ADDITIVE
VOLUME EFFECT FOR MAGNETIC TRANSITION TEMPERATURES OF RARE-EARTH-SCANDIUM ALLOYS 67-11 M15-80657

SCANDIUM, BINARY SYSTEMS
PHASE EQUILBRIUM DIAGRAM AND PROPERTIES OF ALUMINUM-SCANDIUM ALLOYS 67-02 M13-60744
PHASE DIAGRAM OF THE SCANDIUM-RHENIUM SYSTEM 67-02 M13-62238
LAVES PHASES IN THE SCANDIUM-IRON SYSTEM 67-06 M13-70907
A BASIS FOR SOME OF THE VARIETY OF MAGNETIC PROPERTIES OF THE HEAVY RARE-EARTH METALS AND ALLOYS 67-07 M15-73581
THE CRYSTAL STRUCTURES OF COMPOUNDS IN THE SCANDIUM-ZINC SYSTEM 67-09 M13-76938

SCANDIUM, INTERMETALLICS
LAVES PHASES OF THE SCANDIUM GROUP ELEMENTS WITH RUTHENIUM, RHODIUM, OSMIUM, IRIDIUM, AND PLATINUM 67-02 M13-59443

SCANDIUM, MAGNETIC PROPERTIES
TEMPERATURE AND FIELD DEPENDENCES OF THE KNIGHT SHIFT IN METALS AND SEMICONDUCTORS 67-09 M16-76781
THE ANISOTROPY OF MAGNETIC SUSCEPTIBILITY OF METALLIC SCANDIUM AND YTTRIUM 67-11 M15-80739

SCANDIUM, THERMAL PROPERTIES
HEAT CAPACITY OF SCANDIUM FROM 1 TO 23 K 67-11 M15-81477

SCANDIUM BASE ALLOYS, PHASES /STATE OF MATTER/
LAVES PHASES IN THE SCANDIUM-IRON SYSTEM 67-05 M13-68593

SCANDIUM COMPOUNDS, CERMETS

SCANDIUM COMPOUNDS
CONDITIONS OF PREPARATION OF COMPLEX CARBIDE ALLOYS CONTAINING SCANDIUM CARBIDE 67-02 M09-61787
SCANDIUM COMPOUNDS, CRYSTAL LATTICES
THE SCANDIUM--CARBON SYSTEM. PT. 1 67-09 M13-77514
SCANDIUM COMPOUNDS, PHASES /STATE OF MATTER/
NEW HIGH PRESSURE PHASES HAVING THE CORUNDUM STRUCTURE 67-04 M13-67364
SCANDIUM COMPOUNDS, REACTIONS /CHEMICAL/
ON THE INTERACTION OF SCANDIUM OXIDE WITH TUNGSTEN TRIOXIDE 67-05 M14-68966
SCANNING
KOSSEL-LINE SCANNING AS A METHOD OF X-RAY TOPOGRAPHY OF STRUCTURE DEFECTS IN CRYSTALS 67-05 M13-68595
COMPARISON BETWEEN ULTRASONIC INSPECTION SYSTEMS--MECHANICAL SCAN VERSUS TELEVISION IMAGING 67-07 M19-73317
SCARFING
HOT SCARFER AT BLOOMING MILL, KAWASAKI IRON WORKS--ITS INSTALLATION AND OPERATION 67-01 M08-58567
USE OF POWDER CUTTING FOR THE FETTLING OF STEEL CASTINGS AND THE REMOVAL OF RUNNERS 67-02 M11-60016
HOT METAL SCARFING MACHINE INCORPORATED IN PRODUCTION LINE OF BLOOMING MILL 67-04 M07-66213
IMPROVING THE PRODUCTIVITY OF METAL FLAME SCARFING 67-04 M08-66619
USING THE FLAME TORCH 67-05 M08-69146
SCATTERING
SEE ALSO BACKSCATTERING
COHERENT SCATTERING
ELASTIC SCATTERING
INCOHERENT SCATTERING
INELASTIC SCATTERING
IONIZING RADIATION SCATTERING
LATTICE SCATTERING
NUCLEAR SCATTERING
SCATTERING MECHANISMS IN INDIUM ANTIMONIDE AT LOW TEMPERATURES 67-01 M16-58780
POINT DEFECT ELECTRON SCATTERING IN BERYLLIUM 67-03 M13-65222
ON THE MECHANISM OF LATTICE ELECTROMIGRATION IN METALS 67-03 M14-65227
TEMPERATURE DEPENDENCE OF ELECTRON SCATTERING IN THIN SINGLE CRYSTAL FILMS OF GALLIUM AT HE TEMPERATURES 67-03 M16-65140
THE STRUCTURE OF THE CONDUCTION BAND AND THE ANISOTROPY OF THE ELECTRON SCATTERING IN N-GAAS 67-04 M16-66766
INTERVALLEY SCATTERING RATE AND HIGH-FIELD ELECTRON DISTRIBUTIONS IN GAAS 67-04 M16-66781
MIXED SCATTERING IN 3-V COMPOUNDS 67-04 M16-66782
ABSOLUTE MEASUREMENT OF X-RAY SCATTERING FACTORS OF COPPER 67-04 M16-67478
MECHANISM OF ELECTRON SCATTERING IN IN2O3 FILMS 67-06 M16-71775
SIZE EFFECTS IN THE LONGITUDINAL MAGNETORESISTANCE OF THIN SILVER FILMS 67-07 M15-73939
EFFECT OF DISLOCATIONS IN HEXAGONAL LATTICE METALS ON X-RAY BEAM SCATTERING 67-08 M13-75254
ELECTRICAL CONDUCTION IN THIN METAL FILMS 67-08 M15-74716
EFFECT OF ELECTRON-HOLE SCATTERING RESONANCE ON X-RAY EMISSION SPECTRUM 67-09 M16-77157
THICKNESS EFFECTS OF ELECTRON SCATTERING AT AU-FILM SURFACES 67-10 M15-79156
THE ABSOLUTE X-RAY SCATTERING FACTOR OF MAGNESIUM 67-10 M16-78912
THERMOELECTRIC POWER OF ANNEALED AND QUENCHED GOLD-PLATINUM ALLOYS 67-10 M16-79418
AN X-RAY DIFFRACTION STUDY OF RUBIDIUM CHLORIDE 67-11 M13-80605
ATOMIC SCATTERING OF X-RAYS AND THE ELECTRON DENSITY OF IRON AND SILICON 67-11 M16-80158
ABSORPTION AND THE ATOMIC SCATTERING OF ELECTRONS IN ALUMINUM AND NACL 67-11 M16-80181
ENERGY SPECTRA OF INELASTICALLY SCATTERED ELECTRONS AND LEED STUDIES OF TUNGSTEN 67-11 M16-81095
SCATTERING CROSS SECTIONS
ENERGY DEPENDENCE OF NEUTRON DAMAGE IN SILICON 67-05 M16-69216
FAST NEUTRON SCATTERING FROM BERYLLIUM, SODIUM, AND ALUMINUM 67-06 M16-70548
SCHOTTKY DEFECT
SEE LATTICE VACANCIES
SCHOTTKY EFFECT
SEE WORK FUNCTIONS
SCINTILLATION COUNTERS
NUCLEAR TECHNIQUES IN NONDESTRUCTIVE TESTING 67-07 M19-73130
SCINTILLATION SPECTROMETERS
SEE SCINTILLATION COUNTERS
SPECTROMETERS
SCINTILLOMETERS
SEE SCINTILLATION COUNTERS
SCORING
SEE WEAR
SCOURING
FINISHING TECHNIQUES FOR SPECIAL ROLLED STEEL 67-08 M12-75904
SCRAP, CHARGING
USE OF SCRAP IN THE BOS PROCESS 67-01 M04-58092
UTILIZATION OF SCRAP IN BOS PROCESSES IN SMALL CONVERTERS 67-01 M04-58093
SCRAP, CHIPS
THERMAL CONDUCTIVITY OF BRIQUETTED STEEL CHIPS 67-01 M04-57330
SCRAP, MELTING
INDUSTRIAL EXPERIMENTS INTO USING TRANSFORMER STEEL SCRAP INSTEAD OF STEEL CHIPS WHEN PRODUCING 75 PER CENT FERROSILICON 67-07 M04-74074
SCRAP, PROCESSING
METHOD OF PREPARING ALLOYS CONTAINING CHROMIUM FROM SCRAP 67-02 M04-59589
SCRAP, REDUCTION /CHEMICAL/
RECOVERY OF VALUABLE METALS FROM SLAGS, LEACHED RESIDUES AND SCRAPS BY A WET OXIDATION METHOD 67-10 M03-78742
SCRAP, STEEL MAKING
THERMAL CONDUCTIVITY OF SWARF BRIQUETTES 67-07 M04-73052
SCRAP IRON, CHEMICAL ANALYSIS
LABELLING OF METALLIC MATERIALS WITH RADIOACTIVE TRACER ELEMENTS 67-06 M19-70837
SCRAP IRON, MELTING
PROCESSING SCRAP METAL FOR FOUNDRIES 67-06 M01-71674
SCRAP IRON, STEEL MAKING
INTENSIFYING THE OPENHEARTH SCRAP PROCESS BY BLOWING THE BATH WITH COMPRESSED AIR 67-05 M04-69897
EXPERIMENTS WITH A NEW MELTING FURNACE FOR FERROUS MATERIALS 67-11 M04-80402
SCRAP METAL
SEE METAL SCRAP
SCRAPING
EXPERIMENTS ON THE SOLIDIFICATION OF STEEL INGOTS BY SCRAPE METHOD 67-02 M06-60618
SCREEN ANALYSIS
SEE SIEVE ANALYSIS
SCREENING
INFLUENCE OF THE PRINCIPAL SINTERING PARAMETERS ON SIDELORS PLANT IN ROMBAS 67-09 M02-77838
SCREENING /SIZING/
EFFECT OF SCREENING OF ORES AND SINTERS ON BLAST FURNACE PERFORMANCE 67-02 M04-60690
RAPPER ADDS NEW TOUCH TO FINE SCREENING 67-06 M02-70487
SCREW CUTTING
SEE SCREW THREADS
THREAD CUTTING
SCREW DISLOCATIONS
THERMALLY ACTIVATED MOTION OF SCREW DISLOCATIONS IN B. C. C. METALS 67-03 M13-65219
DISLOCATION THEORY OF SLIP GEOMETRY AND TEMPERATURE DEPENDENCE OF FLOW STRESS IN B. C. C. METALS 67-03 M13-65220
DYNAMIC PROPAGATION OF DEFORMATION TWINS IN IRON SINGLE CRYSTALS 67-04 M17-67475
THE INTERACTION BETWEEN DISLOCATION LOOPS AND STRAIGHT DISLOCATIONS IN AN ANISOTROPIC MATERIAL, GRAPHITE 67-05 M13-68758
BORRMANN TOPOGRAPHIC INVESTIGATION ON DISLOCATION CONFIGURATION IN WELL-ANNEALED AND LIGHTLY DEFORMED COPPER CRYSTALS 67-05 M13-69469
DISLOCATION IN THE DIRECTION --110-- AND HARDENING OF ALLOY WITH LI2 STRUCTURE 67-05 M13-69470
MEASUREMENT OF DISLOCATION VELOCITIES IN GERMANIUM 67-05 M14-69784
SOURCE OF LOW-TEMPERATURE ELASTIC LIMIT OF CUBIC CENTERED METALS 67-05 M17-69466
SCREW DISLOCATION ARRAYS IN HETEROGENEOUS MATERIALS 67-06 M13-70413

DIFFUSION CONTROLLED MOTION OF JOGGED SCREW DISLOCATIONS 67-06 M13-71971
THE EFFECT OF SHEAR MODULUS ON THE STRESS DISTRIBUTION PRODUCED BY A PLANAR ARRAY OF SCREW DISLOCATIONS NEAR A BI-METALLIC INTERFACE 67-06 M13-72219
DISSOCIATED DISLOCATIONS AND THE SCHMID LAW OF RESOLVED SHEAR STRESS IN BCC METALS 67-06 M14-71521
SLIP AND THE CONCEPTION OF SPLITTING OF DISLOCATIONS IN BCC METALS 67-06 M14-71522
A CRITICAL REVIEW OF THE PEIERLS MECHANISM 67-06 M17-71524
STACKED SCREW DISLOCATION ARRAYS IN AN ANISOTROPIC MEDIUM 67-07 M13-72948
STUDY OF DISLOCATION IN LIGHTLY DEFORMED COPPER CRYSTALS USING BORRMAN X-RAY TOPOGRAPHY 67-07 M13-73068
DEFECTS DESCRIBED IN QUENCHED ALLOYS 67-07 M13-73083
DISLOCATIONS IN DEFORMED SINGLE CRYSTALS 67-07 M14-73750
FATIGUE STUDIES OF SINGLE CRYSTAL BERYLLIUM 67-07 M17-73743
STUDY OF DISLOCATION MOBILITY IN ZINC SINGLE CRYSTALS 67-08 M13-74642
THE INFLUENCE OF LARGE ELASTIC ANISOTROPY ON THE DETERMINATION OF BURGERS VECTORS OF DISLOCATIONS IN BETA BRASS BY ELECTRON MICROSCOPY 67-08 M13-75222
EFFECT OF DISLOCATIONS IN HEXAGONAL LATTICE METALS ON X-RAY BEAM SCATTERING 67-08 M13-75254
THE THEORY OF SUSCEPTIBILITY AND COERCIVE FORCE OF MAGNETIC MATERIALS 67-08 M15-75247
EXPERIMENTS ON THE DEFORMATION OF NIOBIUM SINGLE CRYSTALS. PT. 2. ELECTRON MICROSCOPE STUDY OF DISLOCATION STRUCTURES 67-09 M13-76586
STRESS FIELDS DUE TO DISLOCATION PILE-UPS IN HEXAGONAL METALS DURING ANISOTROPIC TREATMENT 67-09 M13-76794
DISLOCATIONS AND ELECTRONS IN METALS 67-10 M16-78312

SCREW DISLOCATIONS, HEATING EFFECTS
OBSERVATIONS OF SUBSTRUCTURES IN EXPLOSIVELY DEFORMED AND ANNEALED BETA BRASS 67-06 M14-69938

SCREW DISLOCATIONS, IMPURITY EFFECTS
FORMATION OF DISLOCATION NETWORKS IN GALLIUM SINGLE CRYSTALS 67-09 M13-77427

SCREW DISLOCATIONS, STRESS EFFECTS
DISLOCATION MULTIPOLES 67-05 M13-69468
BURGERS VECTORS OF DISLOCATIONS IN DEFORMED IRON AND IRON ALLOYS 67-07 M14-73500
DISLOCATION MULTIPLICATION IN ZINC SINGLE CRYSTALS UNDER THE EFFECT OF ULTRASONICS 67-08 M13-75278
LATTICE DEFECTS IN SHOCK-DEFORMED AND COLD WORKED NICKEL 67-08 M14-75118

SCREW DISLOCATIONS, STRESSES
STRESS AND DILATATION FIELDS OF THE --111-- DISLOCATION IN CUBIC CRYSTALS 67-08 M13-75115

SCREW MACHINES
SOME EXPERIMENTS ON FACTORS AFFECTING THE EXTRUSION OF LEAD AND LEAD ALLOYS IN A CONTINUOUS SCREW EXTRUSION MACHINE 67-09 M07-76604

SCREW THREADS, MECHANICAL PROPERTIES
THE FATIGUE FACTOR IN ENGINEERING DESIGN 67-08 M17-75613

SCREWDRIVERS
SEE HAND TOOLS

SCREWS
SEE ALSO CAP SCREWS
TAPPING SCREWS
TOOL STEEL SOCKET SCREWS KEEP HOT WORK DIES ON LINE 67-06 M20-70682

SCREWS, CORROSION
BEHAVIOR OF METAL SCREWS EMBEDDED IN WOOD AND IMMERSED IN SEA WATER 67-09 M18-78059

SCREWS, MECHANICAL PROPERTIES
FATIGUE FAILURE OF A SCREWED SHAFT 67-08 M17-74511
TENSILE STRENGTH OF DUCTILE SCREW THREADS 67-11 M17-80900

SCREWS /PROPELLERS/
SEE PROPELLERS

SCRUBBING
SEE WASHING

SEA COAL
SEE COAL DUST

SEA WATER, CORROSION
THE INFLUENCE OF FORGING CONDITIONS IN DIE FORGING PRACTICE ON THE MECHANICAL PROPERTIES OF TITANIUM-ALLOY DIE FORGINGS 67-10 M07-79956

SEA WATER, CORROSION ENVIRONMENTS
ALLOYS CONTAINING LARGE AMOUNTS OF COPPER AND NICKEL FOR USE IN SEA WATER 67-01 M18-58734
90/10 CUPRONICKELS FOR SEA WATER PIPING 67-02 M18-59417
ACCELERATED CORROSION OF SHIPS BOTTOM PLATE 67-03 M18-65994
OFFSHORE MAINTENANCE PROGRAM--CORROSION PROTECTION VITAL IN GULF OF MEXICO 67-04 M18-66315
CORROSION RESISTANCE OF ALUMINUM AND STAINLESS STEEL DURING ANODIC POLARIZATION 67-04 M18-67291
STRESS CORROSION OF BERYLLIUM IN SYSTHETIC SEA WATER 67-05 M18-69474
INVESTIGATION OF THE TENDENCY OF HIGH-STRENGTH ALUMINUM ALLOYS TO STRESS CORROSION 67-06 M18-70191
CORROSION RESISTANCE OF POROUS MATERIALS PRODUCED BY HOT COMPACTION OF STEEL SHIPS 67-06 M18-72333
GALVANOTHERMAL METHOD FOR PRODUCTION OF FE-NI-CR COATINGS 67-07 M12-73657
ANODIC BEHAVIOR OF CU-NI ALLOYS IN 0.5N NACL SOLUTION 67-07 M18-73648
EFFECT OF TITANIUM ON CORROSION RESISTANCE OF MAGNESIUM 67-07 M18-73659
MANUFACTURE AND USE OF PLASTIC-LINED PIPES 67-07 M18-74078
CORROSION OF MECHANICAL JOINTS IN ALUMINIUM AND ALUMINIUM-STEEL STRUCTURES 67-08 M18-74704
HOW METALS RESIST SEA WATER 67-08 M18-74741
ALUMINIZED WIRE ROPE RESISTS CORROSION AT SEA 67-08 M18-75551
INFLUENCE OF ZINC DUST LOADINGS. ZINC RICH PAINTS IN HIGHLY CORROSIVE ENVIRONMENTS 67-08 M18-75743
CORROSION OF MILD STEEL IN SEAWATER 67-09 M18-77229
THE USE OF PULSED APPLIED VOLTAGE IN THE DERIVATION OF CORROSION RATES FROM POLARIZATION RESISTANCE MEASUREMENTS 67-09 M18-77484
STAINLESS STEEL AND THE GIPSY MOTH 4 67-10 M18-79426
THE BEHAVIOUR OF STAINLESS STEEL IN SEA-WATER 67-10 M18-79427
WHY COPPER-NICKEL ALLOYS FOR DESALINATION 67-11 M18-80289
THE APPLICATION OF TITANIUM FOR DESALINATION PLANTS 67-11 M18-80290
APPLICABILITY OF ALUMINUM FOR DESALINATION PLANTS 67-11 M18-80291
APPLICATION OF STEELS FOR DESALINATION PLANTS 67-11 M18-80292
CORROSION UNDER HEAT TRANSFER--SERVICE FAILURES AND LABORATORY TESTING 67-11 M18-81552
APPLICATION OF CR-NI-MO WELDING RODS WITH STABLE AUSTENITE FOR HIGH-STRENGTH WELDMENTS 67-12 M11-83292
COPPER-BASE ALLOYS FOR USE IN SEA-WATER. PT. 2 67-12 M18-82132
SCIENCE FOR ELECTROPLATERS. PT. 118. POROSITY 67-12 M18-82708
SELECTION OF METALS FOR MARINE APPLICATIONS 67-12 M18-83226
GALVANIC PROTECTION--ANODIC POLARIZATION OF SEVERAL GRADES OF SPANISH ZINC 67-12 M18-83578

SEALANTS
SEE SEALERS

SEALERS, AEROSPACE
EMERGING AEROSPACE MATERIALS AND FABRICATION TECHNIQUES 67-06 M20-72200

SEALERS, CORROSION
SEALING CORROSIVE MATERIALS WITH HARD CARBON ALLOYS 67-08 M18-76197

SEALERS, WELDED JOINTS
PRODUCING HIGH QUALITY RESISTANCE WELDS IN ALUMINUM AND MAGNESIUM 67-06 M11-72245

SEALING
IMPREGNATING POROUS ALUMINUM ALLOY CASTINGS 67-01 M06-57463
SEALING OF CASTINGS 67-01 M06-58357
THE SEALING OF ANTIFRICTION BEARINGS 67-01 M20-58008
CHROMIZING MOLYBDENUM FOR GLASS SEALING

SEALING
67-02 M12-60698
SEALING AND POSTANODIC TREATMENTS
67-04 M12-67790
ELECTROLYTIC SEALING OF INDUSTRIAL REFRACTORIES
67-05 M05-69512
ADHESIVES TAKE BIG STEP AHEAD AS PARTNERS OF FASTENERS 67-05 M11-68810
IMPREGNATION OF POROUS ALUMINIUM ALLOY CASTINGS
67-06 M06-70751
MECHANIZED BUILDUP OF SEALING SURFACES
67-06 M11-70400
REFRACTORY CERAMIC-TO-METAL SEAL
67-06 M11-71693
INDENTIFICATION AND DESCRIPTION OF THE PROPERTIES OF ANODIC OXIDE FILMS ON AL 67-06 M12-71981
MECHANIZED HARDFACING OF SEALING FACES
67-09 M11-78100

SEALS /STOPPERS/
SEE ALSO GASKETS
METALLIC SEALS
O RING SEALS
PLUGS
THE SEALING OF ANTIFRICTION BEARINGS
67-01 M20-58008
MATERIALS FOR MECHANICAL SEALS 67-05 M20-69546
STAND TESTS OF CERMET PACKING MATERIAL U MB-4S
67-06 M17-70968
CARBON AND GRAPHITE MATERIALS FOR SEALS, BEARINGS, AND BRUSHES 67-09 M20-77136

SEALS /STOPPERS/, MATERIALS
STUDY OF DRY FRICTION OF CERTAIN POWDER COMPOSITES AT HIGH RATES OF SLIP 67-02 M09-60895
INVESTIGATION OF THE CHEMICAL STABILITY OF SOLID LUBRICANTS AT HIGH TEMPERATURES. PT. 1
67-06 M18-70770

SEALS /STOPPERS/, MECHANICAL PROPERTIES
FRICTIONAL BEHAVIOR OF LABYRINTH SEAL AND SHROUD MATERIALS IN STEAM AND GAS TURBINES
67-07 M17-74056

SEALS /STOPPERS/, PHYSICAL PROPERTIES
TUNGSTEN-CARBIDE SEAL HANDLES RANGE FROM MINUS 423 TO PLUS 800 F 67-07 M20-73616

SEALS /STOPPERS/, POWDER METALLURGY
INVESTIGATION OF ANTIFRICTION PROPERTIES OF SEALING COMPOSITE MATERIALS. PT. 2 67-02 M09-60182
ANTIFRICTION PROPERTIES OF SOME COMPOSITE SINTERED PACKING MATERIALS. PT. 2 67-09 M09-76915

SEALS /STOPPERS/, SURFACE PROPERTIES
PROSPECTS FOR MANUFACTURING OF GAS TURBINE SEALS WITH CONSIDERATIONS OF PHYSICAL AND CHEMICAL FACTORS 67-05 M09-69020

SEALS /STOPPERS/, WELDING
AUTOMATIC BUILDUP OF BRASS 67-10 M11-78411

SEAM WELDING
SEE ALSO ARC SEAM WELDING
FOIL SEAM WELDING
MASH SEAM WELDING
RESISTANCE SEAM WELDING
CONTINUOUS STRETCH-REDUCTION PIPE MILL IN OHIO
67-03 M08-65716
APPARATUS FOR ELECTRON BEAM WELDING OF CIRCUMFERENTIAL SEAMS IN PIPES
67-04 M11-66818
RESISTANCE WELDING OF A VAD23 ALLOY
67-04 M11-66830
SPIRAL BUTT WELDS IN THIN WALLED STAINLESS STEEL TUBES 67-05 M11-68269
THE MANUFACTURE AND TESTING OF COLD EXPANDED HIGH TEST LINE PIPE 67-06 M11-70026
THE HIGH-FREQUENCY INDUCTION WELDING OF TUBES
67-06 M11-72059
SEAM WELDING OF TINNED SHEET IRON UNDER SHIELDING GAS 67-07 M11-72416
FORD READIES EB WELDER FOR PRODUCTION
67-07 M11-73307
SPOT AND SEAM WELDING OF GALVANIZED STEEL
67-10 M11-79398
CURRENT PENETRATION SEAM WELDING--A NEW HIGH SPEED PROCESS 67-12 M11-82818

SEAM WELDS
SEE SEAMS
WELDED JOINTS

SEAMING
SEE ALSO SEAM WELDING
HOW TO USE FLUOROCARBON PLASTICS AS BONDING AGENTS
67-05 M11-68699

SEAMS
SEAMY DEFECTS IN HOT STRIP FROM CAPPED STEEL
67-06 M07-72277

SEAMS, MECHANICAL PROPERTIES
STRESS CONCENTRATION IN BUTT WELDS
67-04 M17-66429
STRESS CONCENTRATION IN BUTT JOINTS
67-07 M17-72688

SEASON CRACK
SEE STRESS CORROSION CRACKING

SEASON CRACKING
SEE STRESS CORROSION CRACKING

SECONDARY BATTERIES
SEE STORAGE BATTERIES

SECONDARY DISPLACEMENTS
SEE DISPLACEMENTS /LATTICE/

SECONDARY EMISSION
OPTICAL ABSORPTION, PHOTOCONDUCTIVITY, SPONTANEOUS AND STIMULATED LIGHT EMISSION INVOLVING EXCITON STATES IN CDTE 67-04 M16-66749
SECONDARY ELECTRON EMISSION FROM THIN SELF-SUPPORTING FILMS OF SILVER 67-10 M16-79106

SECONDARY HARDENING
PRECIPITATION OF CARBIDES IN ALLOY STEELS
67-04 M14-67546
COMMENTS ON AN INVESTIGATION OF SECONDARY HARDENING OF A 1 PER CENT VANADIUM-0.2 PER CENT CARBON STEEL 67-06 M14-72238
RESEARCH INTO HIGH-STRENGTH STEEL CASTINGS
67-07 M10-72991

SECONDARY RECRYSTALLIZATION
TEXTURE OF HOT ROLLED BAND OF SILICON IRON
67-01 M14-58239
EFFECT OF CRYSTALLOGRAPHIC TEXTURE ON PRESS FORMING OF EXTRA-LOW-CARBON RIMMED STEEL SHEET
67-01 M17-58240
EFFECT OF --STRUCTURAL-- CHANGES ON WATT LOSS, DURING RECRYSTALLIZATION ANNEALING OF TRANSFORMER SHEET 67-02 M14-58996
TRANSMISSION ELECTRON MICROSCOPY STUDY OF COLD WORKED AND ANNEALED STRUCTURES IN ALUMINUM AND TWO ALUMINUM ALLOYS 67-03 M14-65547
SECONDARY RECRYSTALLIZATION IN PURE IRON AND SOME OF ITS ALLOYS 67-06 M14-71300
SECONDARY RECRYSTALLIZATION IN ALPHA ZIRCONIUM
67-06 M14-71624
PRODUCTION AND PROPERTIES OF GRAINORIENTED COMMERCIALLY PURE IRON 67-07 M14-73536
KINETICS OF SECONDARY RECRYSTALLIZATION IN TRANSFORMER STEEL 67-08 M14-74641
ELECTRON OPTICAL INVESTIGATION OF THE SECONDARY RECRYSTALLIZATION OF DRAWN TUNGSTEN WIRES BASED ON THERMAL ELECTRON EMISSION 67-09 M14-76799
EFFECT OF PREANNEALING ON SECONDARY RECRYSTALLIZATION OF TRANSFORMER STEEL
67-09 M14-77282
EFFECT OF THICKNESS OF TRANSFORMER STEEL STRIP ON THE GROWTH OF SECONDARY GRAINS
67-09 M14-77777
INFLUENCE OF TYPE OF PLASTIC STRAIN ON THE SECONDARY RECRYSTALLIZATION TEXTURE OF FE-3 PER CENT SI ALLOY 67-11 M14-80732
THE EFFECT OF SILICON CONTENT ON THE SECONDARY RECRYSTALLIZATION OF SILICON-IRON
67-12 M14-82589

SECONDARY RECRYSTALLIZATION, IMPURITY EFFECTS
EFFECT OF IMPURITIES ON THE DEVELOPMENT OF --110-- --001-- SECONDARY RECRYSTALLIZATION TEXTURE IN 3 PER CENT SILICON IRON 67-09 M14-76758
EFFECT OF IMPURITIES ON THE SECONDARY RECRYSTALLIZATION IN SILICON IRON
67-11 M14-80751

SEDIMENTARY ROCKS
SEE ANTHRACITE
DOLOMITE
LIGNITE
LIMESTONE
TACONITE

SEDIMENTATION
INVESTIGATION OF KINETICS OF JOINT PRECIPITATION OF AU, AG AND CU FROM CYANIDE SOLUTIONS
67-06 M03-71301

SEEBECK COEFFICIENT
SEE SEEBECK EFFECT

SEEBECK EFFECT
ELECTRON TRANSPORT AND THERMOELECTRIC PROPERTIES OF N-TYPE BI1.75SB0.25TE3 67-02 M15-61694
AN AUTOMATIC TECHNIQUE FOR ACCURATE MEASUREMENTS OF SEEBECK COEFFICIENT 67-05 M16-68654
SUPERCONDUCTING TRANSITION TEMPERATURE AND ELECTRONIC STRUCTURE IN THE PSEUDOBINARIES NB3AL-NB3SN AND NB3SN-NB3SB 67-07 M16-73640

INTERPRETATION OF THE HALL COEFFICIENT, ELECTRICAL RESISTIVITY AND SEEBECK COEFFICIENT OF P-TYPE LEAD TELLURIDE 67-08 M15-74388
THE SEEBECK EMF FOR CERTAIN BI-, CD-, PB-, SN- AND TL-BASE ALLOYS AGAINST THE PURE SOLVENT 67-10 M15-79951
SEEBECK COEFFICIENT OF THIN-FILM GERMANIUM 67-12 M15-82361

SEEDING
SEE NUCLEATION

SEEDING /INOCULATION/
SEE INOCULATION

SEGREGATION
SEE SEPARATION

SEGREGATIONS
THE INFLUENCE OF PRODUCTION TECHNOLOGY AND HYDROGEN AND NITROGEN CONTENT ON SPOTTY SEGREGATION IN ALUMINUM-ALLOYED STRUCTURAL STEELS 67-01 M04-57263
MAJOR SEGREGATION OF ZN-AL ALLOYS 67-01 M06-58626
NATURE OF THE SEGREGATION SQUARE IN STAINLESS STEEL 67-01 M13-58075
ZONAL CORING IN INGOTS OF TITANIUM ALLOYS 67-02 M03-62221
ZONE SEGREGATION IN SHAPED CASTINGS 67-02 M06-60078
CONCENTRATION INHOMOGENEITIES IN DEFORMED COPPER-ALUMINIUM AND COPPER-BERYLLIUM ALLOYS 67-02 M13-61684
SILICON MICROSEGREGATION IN CAST IRON 67-02 M13-61911
CHEMICAL MICROHETEROGENEITY OF CAST ALLOYS IN RELATION TO COOLING RATE 67-02 M13-62159
QUANTITATIVE EVALUATION OF THE DISTRIBUTION OF SILICON IN MALLEABLE CAST IRON 67-02 M13-62276
DIFFUSION IN CAST STEELS DURING HOMOGENISING ANNEALS 67-02 M14-60504
SOME PHENOMENA ON THE GRAIN BOUNDARIES IN THE WELD-AFFECTED ZONE 67-04 M13-66801
EFFECT OF COOLING RATE DURING ALLOY HARDENING ON SEGREGATION OF SOLUBLE IMPURITIES 67-04 M13-67001
THE APPLICATION OF PHASE INTEGRATORS TO THE DETERMINATION OF INCLUSIONS AND THE VOLUMETRIC DETERMINATION OF SEGREGATION RANGES IN STEEL 67-04 M13-67204
FORMATION OF EXTRA-AXIAL HETEROGENEITY IN INGOTS 67-04 M13-67606
COLORED REPRODUCTION OF X-RAY IMAGES IN THE INVESTIGATION OF HETEROGENEOUS STRUCTURES IN ELECTRON BEAM MICROANALYSIS 67-04 M13-67713
SOLIDIFICATION AND MICROSEGREGATION IN KILLED STEEL INGOTS WITH PARTICULAR REFERENCE TO 1 PER CENT C, 1 1/2 PER CENT CR STEEL 67-04 M14-67025
THE EFFECT OF CRYSTALLINE SEGREGATIONS ON THE DEFORMATION BEHAVIOR OF ALLOY STEELS 67-04 M14-67208
MECHANICAL PROPERTIES AND INHOMOGENEITY OF LARGE FORGINGS 67-04 M17-67370
QUALITY OF STEEL FROM CONTINUOUSLY CAST BILLETS. PT. 2. QUALITY OF SPRING STEEL FROM CONTINUOUSLY CAST BILLETS 67-05 M01-68731
QUALITY OF STEEL FROM CONTINUOUSLY CAST BILLETS. PT. 1. THE QUALITY OF HIGH-CARBON STEEL WIRE ROD ROLLED FROM BILLETS CONTINUOUSLY CAST FROM BASIC OXYGEN LD STEEL 67-05 M01-68732
ON THE FORMATION OF STRING GHOST IN KILLED STEEL INGOT 67-05 M04-69709
LIQUATION IN LARGE RIMMING STEEL INGOTS 67-06 M04-70920
SHOWING THE CONCENTRATIONAL HETEROGENEITIES IN K40NKHM ALLOY 67-06 M13-70286
EFFECTS OF INOCCULANTS AND ALLOYING ADDITIVES ON THE STRUCTURE OF SPECIAL IRONS INVESTIGATED USING ISOTOPES 67-06 M13-70326
NONUNIFORM DISTRIBUTION OF TITANIUM IN AN FE-NI-TI ALLOY 67-06 M13-70921
DISTRIBUTION OF SILICON AND CHROMIUM BETWEEN THE PHASES OF CAST IRON OF LOW CHROMIUM CONTENT 67-06 M13-71113
SEGREGATION IN NODULAR IRON AND ITS INFLUENCE ON MECHANICAL PROPERTIES 67-06 M13-71322
DEVELOPMENT OF CHEMICAL MICROHETEROGENEITY IN BINARY ALUMINUM BASE ALLOYS 67-06 M13-72307
GRAIN BOUNDARY SEGREGATION AND THE COLD-WORK PEAK IN IRON CONTAINING CARBON OR NITROGEN 67-06 M14-71603
MICROSEGREGATION IN CAST IRON 67-07 M13-73244
AN AUTORADIOGRAPHIC STUDY OF THE DISTRIBUTION OF IRON IN CAST ALUMINIUM-IRON SOLID SOLUTION 67-07 M19-72817
THE KROSS ROLE PROCESS 67-08 M07-74361
PHENOMENA OCCURRING AT GRAIN BOUNDARIES IN THE HEAT AFFECTED ZONE 67-08 M13-75905
DENDRITIC AND ZONAL HETEROGENEITIES IN THE KHN67MTYU AND KHN60MVTYU ALLOYS 67-08 M13-76011
THE GRAIN-BOUNDARY SEGREGATION OF FE, CO AND NI IN PURE ALUMINUM AND ITS EFFECTS ON MECHANICAL PROPERTIES 67-08 M14-75356
RESEARCH INTO THE PROCESSES OF PRECIPITATION IN SUPERPARAMAGNETIC ALLOYS 67-09 M14-76817
EFFECT OF IMPURITY SEGREGATION DURING CONTROLLED CRYSTALLIZATION OF TIN 67-10 M13-79143
EFFECTS OF THE MELTING, CASTING AND HEAT TREATMENT TECHNOLOGY THE CHEMICAL HOMOGENEITY OF ALLOYS INVESTIGATED USING ISOTOPES 67-10 M14-79657
HOW CASTING RATES AFFECT THE SPREAD OF ANGULAR SEGREGATION DEFECTS AND THEIR POSITION OVER THE INGOT HEIGHT 67-11 M04-81445
EFFECT OF RECRYSTALLIZATION CONDITIONS ON THE LIQUATION OF SULFUR IN A STEEL INGOT WHICH CONTAINS RARE EARTH METALS 67-11 M04-81650
NEW PROCESS IMPROVES MACHINABILITY OF BAR STOCK 67-11 M07-80933
DEVELOPMENT OF CHEMICAL MICRO-HETEROGENEITY IN BINARY ALUMINIUM-BASE ALLOYS 67-11 M13-81579
CARBIDE SEGREGATION AND NONMETALLIC INCLUSIONS IN LOW-ALLOY STEELS 67-11 M19-81607
MACROSEGREGATION. PT. 1 67-12 M06-82766
APPARENT PORE FORMATION DURING CELLULAR SOLIDIFICATION 67-12 M13-82874
SEGREGATION AND GRAIN GROWTH IN DILUTE ALLOYS 67-12 M13-82879
FEATURES IN EUTECTIC CRYSTALLIZATION IN THE METASTABLE FE-FE3C-SI SYSTEM AND IN LIQUATION OF SI IN WHITE CAST IRON 67-12 M14-81974
SEGREGATION OF ALLOYING INCLUSIONS IN GRAY CAST IRON 67-12 M14-82090
CONTRIBUTION TO THE STUDY OF MICROSEGREGATION IN FE-C CASTING ALLOYS 67-12 M14-83498

SEGREGATIONS, ALLOYING EFFECTS
THE DISTRIBUTION OF BE AND THE GRAIN SIZE IN MG-AL ALLOYS CONTAINING BE 67-05 M06-68865
INFLUENCE OF RARE EARTH ELEMENTS ON THE CRYSTALLIZATION OF CARBON STEEL 67-05 M13-68378
EFFECT OF RARE-EARTH ELEMENTS ON THE PROPERTIES OF MEDIUM-CARBON STEEL 67-06 M04-70181

SEGREGATIONS, COOLING EFFECTS
CHEMICAL MICROHETEROGENEITY IN CAST ALLOYS AS RELATED TO THE COOLING RATE 67-04 M13-67166
EFFECTS OF THE COOLING RATE ON DENDRITE SEGREGATION IN BINARY ALUMINUM-COPPER ALLOYS 67-09 M13-76947

SEGREGATIONS, HEATING EFFECTS
ELECTRON-MICROSCOPE INVESTIGATION OF THE TEMPERING OF HARDENED STEEL 67-12 M14-82153

SEGREGATIONS, TEMPERATURE EFFECTS
INFLUENCE OF THE SUPERHEATING OF AN ALLOY ON HETEROGENEITY OF SOLID SOLUTIONS 67-10 M14-79138

SEIZING
STUDY ON THE SEIZURE PHENOMENA IN FRICTION OF METAL 67-01 M17-58547
COATING OF BOLTS TO PREVENT SEIZURE 67-03 M18-65986
STUDY ON THE WEAR OF CASTING AL ALLOYS. PT. 1. ON THE WEAR CHARACTERISTICS 67-05 M17-68888
STUDY ON THE WEAR OF CASTING AL ALLOYS. PT. 2. ON THE FRICTIONAL CHARACTERISTICS 67-05 M17-68889
ANTIFRICTION PROPERTIES OF SOME STRUCTURAL MATERIALS 67-05 M17-69015
TEMPERATURE AND FRICTIONAL COEFFICIENT AT HIGH RATES OF SLIP 67-06 M17-71367
THE SEIZING AND PASSING OF INGOTS THROUGH THE ROLLS IN ROLLING ON REVERSING MILLS 67-08 M07-75588
WEAR OF METALS IN SUCROSE SOLUTIONS 67-09 M17-76438
ANTIFRICTION IRON-BASE POWDER METALLURGY PARTS FOR HEAVY DUTY PERFORMANCE 67-12 M09-83558

SEJOURNET PROCESS
MANUFACTURE OF SEAMLESS STEEL PIPE AND TUBING 67-06 M07-72138

SELENIDES, BAND THEORY
BAND STRUCTURE OF THE SEMICONDUCTING LAYER COMPOUNDS 67-04 M16-66742
SELENIDES, BINARY SYSTEMS
INFLUENCE OF ORDERING ON THE PROPERTIES OF SOLID SOLUTIONS OF THE SYSTEM --HGSE--3X---IN2SE3--1-X 67-06 M16-70982
THE SYSTEM MNSE-MNS 67-07 M14-72830
SELENIDES, COATING
EPITAXIAL GROWTH OF ZNTE ON ZNSE BY VAPOR TRANSPORT 67-12 M14-82675
SELENIDES, CRYSTAL GROWTH
SOLUBILITY OF ZNSE AND ZNTE IN GA AND IN 67-03 M16-65388
POLYMORPHISM IN SOME IV-VI COMPOUNDS INDUCED BY HIGH PRESSURE AND THIN-FILM EPITAXIAL GROWTH 67-08 M14-75552
IMPROVED METHOD FOR GROWING 2-6 CRYSTALS FROM THE VAPOR PHASE 67-08 M14-75997
SELENIDES, CRYSTAL LATTICES
ELECTRON-DIFFRACTION STUDY OF THE PB2BI2SE5 STRUCTURE 67-06 M13-71186
SELENIDES, ELASTIC CONSTANTS
ELASTIC CONSTANTS OF HEXAGONAL BEO, ZNS AND CDSE 67-08 M17-75130
SELENIDES, ELECTRICAL PROPERTIES
THE ANISOTROPY OF THE ELECTRONIC PROPERTIES OF INTRINSIC CDSE 67-06 M16-70465
MAGNETIC AND ELECTRICAL PROPERTIES OF COPPER CONTAINING SULPHIDES AND SELENIDES WITH SPINEL STRUCTURE 67-06 M16-71172
SOME DIELECTRIC AND ELECTRONIC PROPERTIES OF CDSE FILMS 67-06 M16-71185
ANOMALOUS ELECTRICAL RESISTIVITY OF FE7SE8 67-07 M15-73990
CONDUCTIVITY RANGE AND ABSORPTION EDGE OF ZINC SELENO-TELLURIDES 67-10 M15-79120
PHOTOELECTRIC PROPERTIES OF AS2SE3 LAYERS 67-11 M15-80816
SELENIDES, IRRADIATION
ELECTRON RADIATION DAMAGE IN CADMIUM-SELENIDE CRYSTALS AT LIQUID-HELIUM TEMPERATURE 67-10 M16-79419
SELENIDES, MAGNETIC PROPERTIES
MAGNETIC PROPERTIES OF ZNMN2S4, ZNMN2SE4 AND ZNMN2TE4 67-03 M15-65648
OSCILLATORY MAGNETO-ABSORPTION OF THE DIRECT TRANSITION IN THE LAYER COMPOUND GALLIUM SELENIDE AT 1.5 K 67-04 M16-66750
PARAMAGNETIC CENTERS ON THE SURFACE OF CDSE 67-06 M16-70872
INVESTIGATION OF THE MAGNETIC PROPERTIES OF NEODYMIUM MONOCHALCOGENIDES AT 4.2-150 K 67-07 M15-73704
NEUTRON DIFFRACTION STUDY OF FE7SE8 67-07 M15-73989
THE MAGNETOCRYSTALLINE ANISOTROPY OF IRON SELENIDE FE7SE8 67-08 M15-76173
SELENIDES, MECHANICAL PROPERTIES
PREPARATION OF GALLIUM SELENIDE MONOCRYSTAL AND DETERMINATION OF ITS ELASTIC CONSTANTS 67-10 M17-79247
SELENIDES, OPTICAL PROPERTIES
THE ULTRAVIOLET ABSORPTION SPECTRUM OF TESE 67-06 M16-72090
INFRARED LATTICE REFLECTION SPECTRA OF 2-6 COMPOUNDS 67-08 M15-75937
SELENIDES, PHASE TRANSFORMATIONS
THE SOLIDIFICATION OF BI2TE3 AND ITS SOLID SOLUTIONS WITH BI2SE3 AND SB2TE3 UNDER THE INFLUENCE OF ULTRASONIC AGITATION 67-06 M14-70664
PHASE TRANSFORMATION OF AS2SE3 AND SB2SE3 FILMS 67-12 M14-83269
SELENIDES, PHASES /STATE OF MATTER/
STRUCTURAL STUDY OF A NEW TITANIUM SELENIDE--TI9SE4 67-09 M13-77682
ELECTRON-DIFFRACTION STUDY OF THE PB2BI2SE5 STRUCTURE 67-10 M13-79355
SELENIDES, PHYSICAL PROPERTIES
VERY HIGHLY REFLECTIVE DIELECTRIC MIRROR COATINGS WITH ZINC SELENIDE 67-06 M16-69962
CONTINUOUS AMPLIFICATION OF ULTRASOUND IN CADMIUM SELENIDE 67-11 M15-81054
DETERMINATION OF THE REDUCED EFFECTIVE MASS IN ZINC SELENIDE 67-11 M16-81689
SELENIDES, SEMICONDUCTORS
HEAT CONDUCTIVITY STUDY OF GASE MONOCRYSTALS 67-03 M15-65230
X-RAY DIFFRACTION AND OPTICAL OBSERVATIONS ON CRYSTALLINE SOLIDS UP TO 300 KBAR 67-05 M13-68652
HARTREE SELF-CONSISTENT FIELD OF SEMICONDUCTOR PBSE 67-11 M16-80155
SELENIDES, SINGLE CRYSTALS
EPITAXIAL FILMS OF PBTE, PBSE AND PBS GROWN ON MICA SUBSTRATES 67-10 M15-79337
SEMICONDUCTING PROPERTIES OF THALLIUM SELENIDE 67-11 M15-81476
PREPARATION OF ZNSEXTE1-X CRYSTALS BY VAPOR TRANSPORT 67-12 M14-82676
SELENIDES, TERNARY SYSTEMS
INVERSION OF CONDUCTION AND VALENCE BANDS IN PB1-XSNXSE ALLOYS 67-09 M16-77170
SELENIDES, THIN FILMS
PHOTOCONDUCTIVITY OF ZNSE THIN FILMS 67-12 M15-82017
SELENIDES, TRANSPORT PROPERTIES
SURFACE TRANSPORT PHENOMENA IN PBS% EPITAXIAL FILMS 67-07 M16-73944
NEUTRON DIFFRACTION AND ELECTRICAL TRANSPORT PROPERTIES OF CUCR2SE4 67-09 M16-77013
CONDUCTIVITY MEASUREMENTS ON PBSE SINGLE CRYSTALS WITH NATURAL P-N JUNCTION 67-10 M15-78446
OPTICAL ENERGY GAPS OF PBSE-SNTE, PBSE-SNSE, PBTE-SNTE AND PBTE-SNSE 67-10 M16-79335
ENERGY GAP IN BETA AG2SE 67-10 M16-79420
SELENIUM, ABSORPTIVITY
ABSORPTION OF AMORPHOUS SE THIN LAYERS DOPED WITH BI AND ZN 67-11 M14-80630
SELENIUM, ALLOYING ADDITIVE
HIGH-SPEED MACHINING AND COLD HEADING OF STAINLESS STEEL 67-07 M08-74151
EFFECTIVE SELENIUM ALLOYING TECHNIQUE FOR CONVENTIONAL STEEL PRACTICE 67-10 M04-80084
SELENIUM, BINARY SYSTEMS
THE PARTIAL LEAD-SELENIUM --0 TO 76 AT. PER CENT SE -- PHASE DIAGRAM 67-01 M14-57424
ELECTRICAL CONDUCTIVITY AND ELECTRODE PROCESSES IN LIQUID AND SOLID THALLIUM SULFIDES AND SELENIDES 67-03 M15-65585
THE RHODIUM/SELENIUM SYSTEM 67-04 M13-68150
STUDY OF THE ELECTROCONDUCTIVITY AND VISCOSITY OF MELTS IN THE BI-SE, BI-TE AND SB-TE SYSTEMS 67-04 M15-66867
INVESTIGATION OF THE GA-SE PHASE DIAGRAM 67-05 M13-68206
THE CADMIUM-SELENIUM SYSTEM 67-05 M13-68207
ON THE FUSIBILITY DIAGRAM OF THE TIN-SELENIUM SYSTEM 67-05 M13-68404
PHASE EQUILIBRIA IN THE CD-SE SYSTEM 67-06 M14-72174
INVESTIGATION OF THE BI2S3-SB2SE3 SYSTEM 67-09 M13-76850
CRYSTALLOGRAPHIC STUDY OF THE SYSTEM, ERBIUM-SELENIUM 67-11 M13-81567
INVESTIGATION OF THE PBSE-GESE AND GESE-GETE SYSTEMS 67-12 M13-83352
A CALORIMETRIC INVESTIGATION OF THE BISMUTH-RICH REGION OF THE SYSTEM BISMUTH-SELENIUM 67-12 M15-82570
SELENIUM, CHEMICAL PROPERTIES
THE CHEMICAL BOND AND THE STRUCTURE OF VALENCE BANDS IN COVALENT SEMICONDUCTORS 67-11 M15-80154
SELENIUM, COATING
AN INVESTIGATION OF THE HETEROGENEOUS P-N JUNCTION BETWEEN SELENIUM AND VARIOUS SELENIDES 67-06 M16-71195
SELENIUM, CRYSTAL GROWTH
SURFACE CRYSTALLIZATION OF VITREOUS SELENIUM AS INDUCED BY CHEMICAL VAPORS 67-08 M14-75120
SINGLE-CRYSTAL SELENIUM FILMS 67-12 M12-82217
SELENIUM, CRYSTAL LATTICES
INITIAL STAGES OF THE CRYSTALLIZATION OF SELENIUM SPHERULITES AND THE MECHANISM OF THEIR FORMATION 67-06 M14-70519
IDENTIFICATION OF THE FUNDAMENTAL VIBRATIONAL MODES OF TRIGONAL, ALPHA-MONOCLINIC AND AMORPHOUS SELENIUM 67-06 M16-71170
SELENIUM, CRYSTALLIZATION
X-RAY-DIFFRACTOMETRIC PLOTTING OF KINETIC CRYSTALLIZATION CURVES ON AN EXAMPLE OF SELENIUM AND ANALYSIS OF THE CURVES 67-02 M14-59864
SELENIUM, DIFFUSION
INTER-DIFFUSION IN DILUTE CU-S, CU-SE AND CU-TE LIQUID COPPER BASE ALLOYS 67-01 M14-58747
SURFACE AND VOLUME DIFFUSION IN THIN FILMS OF THE

SYSTEM AG-SE 67-07 M14-72944
DIFFUSION OF THE CHALCOGENS IN THE 2-6 COMPOUNDS 67-09 M14-77174

SELENIUM, ELECTRICAL PROPERTIES
BEHAVIOUR OF SELENIUM IN GAAS 67-03 M16-65387
TRANSIENT PHOTOCONDUCTIVITY IN AMORPHOUS SELENIUM FILMS 67-06 M15-71139
INFLUENCE OF DIRECTIONAL DEFORMATION ON THE FUNDAMENTAL ABSORPTION EDGE OF TRIGONAL SELENIUM SINGLE CRYSTALS 67-06 M16-71771

SELENIUM, EXTRACTION
BEHAVIOR OF SELENIUM DURING ROASTING GAISK CONCENTRATES 67-02 M02-59538
SINTER-ROASTING OF COPPER ELECTROLYTIC SLIMES WITH SODA IN A SHAFT FURNACE 67-05 M03-68228
EXTRACTION OF SELENIUM AND TELLURIUM FROM SULFURIC ACID AND CELLULOSE-PAPER PRODUCTION SLIMES BY THE SULFIDIC METHOD 67-06 M03-72116
ON THE REACTION OF SELENIUM DIOXIDE WITH LEAD SULFIDE 67-10 M03-79828
ABSORPTION OF TE FROM HYDROCHLORIC ACID SOLUTIONS WITH WOFATIT-SBW 67-11 M03-80338
INVESTIGATION OF CONDITIONS OF ROASTING A COPPER-PYRITE CONCENTRATE CONTAINING AN INCREASED AMOUNT OF RARE METALS 67-11 M03-81617

SELENIUM, IMPURITIES
EFFECT OF SULFUR AND SELENIUM ON THE ELECTRODEPOSITION OF MANGANESE 67-11 M03-80433

SELENIUM, INTERMETALLICS
INFLUENCE OF THE LEG SIZE AND MECHANICAL SURFACE TREATMENT ON THE THERMOELECTRIC PROPERTIES OF THERMOCOUPLES OF SB2TE3/BI2TE3 AND BI2TE3/BI2SE3 67-02 M16-60126
PREPARATION OF CU2SE SINGLE CRYSTALS AND INVESTIGATION OF THEIR ELECTRICAL PROPERTIES 67-10 M15-79004
ON THE THERMAL CONDUCTIVITY OF CDTE AND SOME CDTE1 MINUS X SX AND CDTE1 MINUS X SEX SOLID SOLUTIONS 67-10 M15-79007
THE BAND EDGE AND THE ENERGY SPECTRUM OF IN2SE 67-10 M16-79020
HELICON OSCILLATIONS IN HGSE 67-10 M16-79368

SELENIUM, IRRADIATION
COMPARISON OF SPECTRA OF COLD NEUTRON SCATTERING IN AMORPHOUS AND CRYSTALLINE SELENIUM 67-10 M16-79444

SELENIUM, MECHANICAL PROPERTIES
ELASTIC CONSTANTS OF TRIGONAL SELENIUM 67-11 M17-81099

SELENIUM, MELTING
THE PHENOMENON OF SELENIUM VITRIFICATION 67-07 M14-72946

SELENIUM, OPTICAL PROPERTIES
POLARIZATION DEPENDENCE OF THE URBACH RULE IN TRIGONAL SELENIUM 67-10 M16-79359
LOW-TEMPERATURE PHOTOCONDUCTIVITY OF SELENIUM SUBJECTED TO ULTRAVIOLET AND X-RADIATION 67-11 M15-81050
OPTICAL PROPERTIES AND BAND STRUCTUR OF TRIGONAL SELENIUM 67-11 M15-81387

SELENIUM, PHYSICAL PROPERTIES
DETERMINING VAPOR PRESSURE OF VOLATILE SUBSTANCES 67-02 M15-60667
IMPURITY EFFECTS ON HETEROGENEOUS NUCLEATION FROM THE VAPOR.. SELENIUM ON GLASS 67-06 M14-70974
INFLUENCE OF DIRECTED DEFORMATION ON THE INTRINSIC-ABSORPTION EDGE OF SINGLE CRYSTALS OF TRIGONAL SELENIUM 67-06 M16-71927
DETERMINATION OF VAPOR PRESSURE OF VOLATILE MATERIALS 67-07 M15-73103
ENERGY OF THE DONOR GROUND STATE IN CDS, CDSE, AND ZNO 67-11 M15-80629

SELENIUM, REACTIONS /CHEMICAL/
MECHANISM OF THE INTERACTION OF ELEMENTARY TE AND SE WITH AL POWDER IN AN ALKALI MEDIUM 67-05 M03-68967
REACTION OF IRON AND SELENIUM IN THE 400 TO 1400 C. RANGE 67-06 M04-71377

SELENIUM, RECOVERING
IMPROVING THE PROCESS OF PRODUCING SODIUM SELENIDE FROM SELENIUM CONTAINING SODA 67-06 M03-71360

SELENIUM, RECTIFIERS
THE THEORY OF HETEROGENEOUS P-N JUNCTIONS AS APPLIED TO SELENIUM RECTIFIERS 67-06 M16-71194

SELENIUM, SEMICONDUCTORS
PHYSICAL FUNDAMENTALS OF SE- AND SIBASED RECTIFIERS 67-11 M16-81531

SELENIUM, SINGLE CRYSTALS
ON AN EXCITON STRUCTURE IN THE REFLECTION SPECTRUM OF TRIGONAL SELENIUM SINGLE CRYSTALS 67-08 M16-75250
REFLECTIVITY MEASUREMENTS ON TRIGONAL SELENIUM SINGLE CRYSTALS IN THE SPECTRAL REGION BETWEEN 1.6 AND 6.0 EV 67-11 M15-80235
SOME NEW FEATURES OF THE REFLECTANCE SPECTRUM OF TRIGONAL SELENIUM SINGLE CRYSTALS 67-11 M15-80236
ETCH PITS IN HEXAGONAL SELENIUM CRYSTALS 67-12 M13-82379

SELENIUM, TERNARY SYSTEMS
STUDY OF A PBSE-PBI2 SECTION OF THE PB-SE-I TERNARY SYSTEM 67-06 M13-70744
THE SYSTEM GE-SE-TE AND THE PREPARATION AND PROPERTIES OF THE NEW NON-STOICHIOMETRIC COMPOUND GESE0.75TE0.25 67-09 M14-77015

SELENIUM, THERMAL PROPERTIES
AMORPHOUS SELENIUM THERMAL CONDUCTIVITY STUDY IN SOFTENING REGION 67-01 M15-58641
ON HEAT CONDUCTIVITY AND THERMOELECTROMOTIVE FORCE OF HEXAGONAL SELENIUM SINGLE CRYSTALS 67-01 M16-58642

SELENIUM, TRANSPORT PROPERTIES
LUX-AMPERE CHARACTERISTICS OF THE ANOMALOUS PHOTOCONDUCTIVITY OF AMORPHOUS SELENIUM UNDER CONTINUOUS ELLUMINATION 67-06 M15-70523

SELENIUM BASE ALLOYS, PHASE TRANSFORMATIONS
INVESTIGATION OF THE POLYMORPHISM OF GA2SE3 SELENIDE OF VARIABLE COMPOSITION 67-01 M14-57647

SELENIUM COMPOUNDS, BENEFICIATION
BEHAVIOR OF SELENIUM DURING ROASTING GAISK CONCENTRATES 67-02 M02-59538

SELENIUM COMPOUNDS, CRYSTAL GROWTH
GROWING CADMIUM SELENIDE SINGLE CRYSTALS FROM MOLTEN ELEMENTS 67-04 M14-67442

SELENIUM COMPOUNDS, CRYSTAL LATTICES
CRYSTAL STRUCTURES OF ALPHA- AND BETA-INDIUM SELENIDE, IN2SE3 67-02 M13-59479
AN ELECTRON-DIFFRACTION STUDY OF AMORPHOUS TLSE 67-02 M13-61656
THE CRYSTAL CHEMISTRY OF SELECTED AB2 RARE EARTH COMPOUNDS WITH SELENIUM, TELLURIUM, AND ANTIMONY 67-12 M13-81736

SELENIUM COMPOUNDS, ELECTRICAL PROPERTIES
A METHOD FOR MEASURING THE HALL EFFECT IN MATERIALS WITH HIGH SPECIFIC RESISTANCE 67-06 M16-72142

SELENIUM COMPOUNDS, MELTING
SELENIOUS SEMIPRODUCTS USED TO OBTAIN A FERROSELENIUM ALLOY 67-10 M04-80081

SELENIUM COMPOUNDS, METALLOGRAPHY
THE ETCHING OF BI--2-Y--SBYTEXSE--3-X-- 67-03 M13-65905

SELENIUM COMPOUNDS, OPTICAL PROPERTIES
OPTICAL PROPERTIES OF THE MIXED AMORPHOUS SYSTEM, AS2SXSE3-X 67-10 M16-79369

SELENIUM COMPOUNDS, REACTIONS /CHEMICAL/
BEHAVIOR OF SELENIUM IN THE PROCESSES OF OXIDIZING LEAD SELENIDE AND PBS-PBSE SOLID SOLUTIONS 67-02 M14-61716
ON THE REACTION OF SELENIUM DIOXIDE WITH LEAD SULFIDE 67-10 M03-79828

SELENIUM COMPOUNDS, THERMAL PROPERTIES
THERMAL-EXPANSION COEFFICIENTS OF SELENIUM AND GALLIUM SELENIDE FROM X-RAY STRUCTURAL ANALYSIS DATA IN ASSOCIATION WITH THE CHEMICAL BOND 67-11 M13-80176

SELENIUM COMPOUNDS, TRANSPORT PROPERTIES
ELECTRICAL PROPERTIES OF ALPHA-IN2SE3 67-02 M15-59480
SURFACE PROPERTIES OF 2-6 COMPOUNDS 67-05 M15-69818
PREPARATION OF CDS AND CD --S, SE-- EVAPORATED LAYERS AND THEIR PHOTOELECTRIC PROPERTIES 67-05 M15-69881
ELECTRICAL PROPERTIES OF BETA-AG2TE AND BETA-AG2SE FROM 4.2 TO 300 K 67-07 M15-72648

SELENIUM RECTIFIERS, ELECTRICAL PROPERTIES
PIEZOELECTRIC EFFECTS IN SELENIUM RECTIFIERS 67-10 M15-79123

SELF ADJUSTING
SEE AUTOMATIC CONTROL

SELF DIFFUSION
SEE DIFFUSION

SELF HARDENING
SEE AIR HARDENING
SELF LUBRICATING
SEE IMPREGNATION
LUBRICATION
SEMICONDUCTIVITY
SEE SEMICONDUCTORS
SEMICONDUCTOR DEVICES
SEE ALSO JUNCTION DIODES
JUNCTION TRANSISTORS
PHOTOVOLTAIC CELLS
SELENIUM RECTIFIERS
THERMISTORS
THYRISTORS
TRANSISTORS
TUNNEL DIODES
VARISTORS
BORON SEMICONDUCTOR DEVICES 67-01 M16-58424
METHOD OF PRODUCING SEMICONDUCTOR MOUNTS 67-02 M11-60937
METALS AND ALLOYS FOR SEMICONDUCTOR DEVICES 67-02 M16-58980
GALLIUM ARSENIDE PLANAR TECHNOLOGY 67-04 M16-67101
PLATINUM AND PALLADIUM METALLIZING PREPARATIONS 67-05 M12-69731
DIFFUSION-INDUCED DEFECTS IN SILICON. PT. 1 67-05 M14-69207
SUPPORT MATERIALS FOR SEMICONDUCTOR DEVICES 67-05 M16-68668
METAL-SEMICONDUCTOR CONTACTS FOR GAAS BULK EFFECT DEVICES 67-07 M16-73180
PREPARATION OF OHMIC CONTACTS FOR N-TYPE GAAS 67-11 M14-80834
EPITAXIAL GROWTH OF ZNTE ON ZNSE BY VAPOR TRANSPORT 67-12 M14-82675
SEMICONDUCTOR DEVICES, DEFECTS
DIFFUSION-INDUCED DEFECTS IN SILICON. PT. 2 67-05 M14-69208
SEMICONDUCTOR DEVICES, ELECTRICAL PROPERTIES
AN ASSESSMENT OF EPITAXIAL GALLIUM ARSENIDE FOR USE IN GUNN EFFECT DEVICES 67-07 M16-72925
IMPROVEMENT OF QUANTUM EFFICIENCY IN GALLIUM ARSENIDE ELECTROLUMINESCENT DIODES 67-10 M15-79121
TRAP LEVELS IN GALLIUM ARSENIDE 67-10 M15-79122
SEMICONDUCTOR DEVICES, FABRICATION
GALLIUM ARSENIDE 67-07 M16-72913
THE FABRICATION OF GUNN EFFECT DEVICES 67-07 M16-72924
THE USE OF AIRBRASION IN THE CONSTRUCTION OF GUNN DIODES 67-07 M16-72926
SEMICONDUCTOR DEVICES, SURFACE PROPERTIES
SURFACE EFFECTS OF RADIATION ON SEMICONDUCTOR DEVICES 67-04 M16-66140
SEMICONDUCTOR DEVICES, WELDING
PRESSURE MICROWELDING IN THE MANUFACTURE OF SEMICONDUCTOR APPARATUS 67-04 M11-67156
AN ANALYTICAL INVESTIGATION OF THE TEMPERATURE DISTRIBUTIONS DURING RESISTANCE WELDING 67-07 M11-74283
SEMICONDUCTOR JUNCTIONS
SEE ALSO NPN JUNCTIONS
PN JUNCTIONS
PNP JUNCTIONS
PREPARATION AND PROPERTIES OF GAAS-SI HETEROJUNCTIONS BY SOLUTION GROWTH METHOD 67-11 M16-80814
SEMICONDUCTOR JUNCTIONS, ELECTRICAL PROPERTIES
PHOTOVOLTAIC PROPERTIES OF CDS-P-TYPE SI HETEROJUNCTION CELLS 67-11 M15-80825
SEMICONDUCTOR JUNCTIONS, REACTIONS /CHEMICAL/
A METHOD OF PRODUCING HETEROJUNCTIONS BETWEEN COMPOUND SEMICONDUCTORS BY ALLOYING AND SUBSTITUTION REACTION 67-02 M16-59075
SEMICONDUCTORS
SEE ALSO PHOTOCONDUCTORS
CONDUCTIVITY MEASUREMENTS IN THE THALLIUM-TELLURIUM SYSTEM 67-02 M15-60880
ELECTRIC PROPERTIES OF SEMICONDUCTOR MELTS OF TI-S SYSTEM 67-02 M15-61203
EPITAXIAL DEPOSITS OF GERMANIUM GROWN FROM SOLUTIONS OF TIN AND LEAD-TIN MIXTURES 67-03 M14-65772
THE BEHAVIOR, IN TIME, OF CONTINUOUSLY OPERATED GAAS LASER DIODES 67-03 M16-65437
TEMPERATURE DEPENDENCE OF ELECTRICAL RESISTIVITY OF VO2 POWDER 67-03 M16-65654
THE PHYSICS OF SEMICONDUCTORS, PROCEEDINGS OF THE INTERNATIONAL CONFERENCE 67-04 M16-66738
INTEGRATED CIRCUIT ENGINEERING--BASIC TECHNOLOGY 67-04 M16-67795
WANTED.. MATERIALS THAT DO NOT EXIST 67-06 M01-71238
ELECTROCONDUCTIVITY OF ALUMINUM OXIDE 67-06 M15-71361
MANUFACTURE AND TESTING OF TRANSISTORS 67-06 M16-70234
FORMATION TECHNIQUES 67-07 M01-73677
THE PHASE TRANSITION IN VO2 67-07 M16-72408
DISLOCATION FREE EPITAXIAL GAAS 67-10 M14-78443
SEMICONDUCTOR MATERIALS RESEARCH 67-10 M16-79286
PRODUCTION OF THERMOELECTRIC MATERIALS BASED ON BI2TE3 SOLID SOLUTION OF BI2TE3-SB2TE3 WITH A GIVEN DISTRIBUTION OF IMPURITIES 67-11 M16-81317
SEMICONDUCTORS, ACOUSTIC PROPERTIES
ULTRASONIC AMPLIFICATION AND NONOHMIC BEHAVIOR IN TELLURIUM 67-04 M16-66777
ACOUSTOELECTRIC PHENOMENA IN TELLURIUM 67-04 M16-66778
MAGNETO-ACOUSTIC EFFECTS IN N-INSB AT 9 GHZ 67-04 M16-66798
FIELD DEPENDENCE OF ULTRASONIC ATTENUATION IN SEMICONDUCTING ZNO 67-06 M16-70085
MICROWAVE EMISSION FROM GERMANIUM CRYSTALS 67-11 M16-80189
SEMICONDUCTORS, ADSORPTION
ADSORPTION STUDIES ON METALS AND ELEMENTAL SEMICONDUCTORS. PT. 12. WATER ON P-TYPE GERMANIUM POWDERS 67-10 M15-79571
SEMICONDUCTORS, ATOMIC PROPERTIES
ELECTRONIC STRUCTURE OF CA, SR, AND BA UNDER PRESSURE 67-06 M16-69907
MECHANISM OF ELECTRON SCATTERING IN IN2O3 FILMS 67-06 M16-71775
A STUDY OF INTER-IMPURITY RECOMBINATION BETWEEN PHOSPHORUS AND BORON IN SILICON 67-06 M16-71776
METHODS OF BAND CALCULATIONS APPLICABLE TO 3 -V COMPOUNDS 67-07 M16-74203
ENERGY BAND STRUCTURES OF MIXED CRYSTALS OF III-V 67-07 M16-74205
OPTICAL AND MAGNETO-OPTICAL PROPERTIES OF SOME SEMICONDUCTORS 67-08 M16-74437
SPIN REVERSAL TRANSITIONS IN IMPURITY HOP CONDUCTION 67-08 M16-75827
DISTRIBUTION OF ELECTRON DENSITY AND BOND ENERGY IN SEMICONDUCTING COMPOUNDS OF THE A3 B5 TYPE 67-11 M16-80157
ATOMIC SCATTERING OF X-RAYS AND THE ELECTRON DENSITY OF IRON AND SILICON 67-11 M16-80158
X-RAY SPECTRAL ANALYSIS OF SEMICONDUCTING COMPOUNDS OF CADMIUM WITH ANTIMONY, OXYGEN, AND SULFUR 67-11 M16-80179
THE COHESIVE ENERGY OF TIO2 --RUTILE-- 67-11 M16-81681
SEMICONDUCTORS, BAND THEORY
SCATTERING MECHANISMS IN INDIUM ANTIMONIDE AT LOW TEMPERATURES 67-01 M16-58780
STUDY OF THE NONPARABOLICITY OF THE PBTE VALENCE BAND BY MEASUREMENTS OF THE THERMAL EMF IN A STRONG MAGNETIC FIELD 67-03 M16-65460
SHUBNIKOV-DE HAAS EFFECT OF N-TYPE HGTE 67-03 M16-65647
ENERGY BAND STRUCTURE OF CDS USING SELF-CONSISTENT OPW AND PSEUDOPOTENTIAL METHODS 67-04 M16-66740
BAND STRUCTURE OF THE SEMICONDUCTING LAYER COMPOUNDS 67-04 M16-66742
ELECTRON EFFECTIVE MASS IN GALLIUM ARSENIDE AS A FUNCTION OF DOPING 67-04 M16-66755
SHUBNIKOV-DE HAAS EFFECT AND ELECTRON BAND STRUCTURE OF CADMIUM ARSENIDE 67-04 M16-66768
SHUBNIKOV-DE HAAS EFFECT IN TELLURIUM 67-04 M16-66770
EFFECT OF DOPING ON THE ELECTRON SPIN RESONANCE IN PHOSPHORUS-DOPED SILICON 67-04 M16-66789
SHUBNIKOV-DE HAAS INVESTIGATIONS OF THE BI-SB --0-30 PER CENT-- SYSTEM 67-04 M16-66794
GALVANOMAGNETIC STUDIES OF SN-DOPED BI 67-04 M16-66795
TRANSMUTATION DOPING AND RECOIL EFFECTS IN

SEMICONDUCTORS EXPOSED TO THERMAL NEUTRONS
67-04 M16-67308
ELECTRONIC ENERGY BANDS IN GAAS FOR IMAGINARY CRYSTAL MOMENTUM 67-04 M16-67365
STRUCTURE OF THE VALENCE BAND OF HEAVILY DOPED LEAD TELLURIDE 67-06 M16-70503
PHOTOEMISSION STUDY OF THE ELECTRONIC STRUCTURE OF CDTE 67-06 M16-72095
BAND STRUCTURE OF CUBIC ZNS --KORRINGA-KOHN-ROSTOKER METHOD-- 67-06 M16-72096
EFFECT OF HEAVY DOPING ON THE SEMICONDUCTOR BAND STRUCTURE 67-07 M16-74204
EVIDENCE FOR ABSENCE OF ELECTRONS FROM CONDUCTION BAND IN N-INSB AT LOW TEMPERATURES
67-08 M16-75003
BAND STRUCTURE OF GRAY TIN UNDER UNIAXIAL STRESS
67-08 M16-75004
DIRECT EDGE PIEZOREFLECTANCE IN GE AND GAAS
67-08 M16-75007
INVERSION OF CONDUCTION AND VALENCE BANDS IN PB1-XSNXSE ALLOYS 67-09 M16-77170
SPIN-POLARIZED ELECTRONIC ENERGY-BAND STRUCTURE IN EUS 67-09 M16-77173
RADIATIVE RECOMBINATION IN N-TYPE INP
67-09 M16-77176

SEMICONDUCTORS, BINARY SYSTEMS
THE PARTIAL LEAD-SELENIUM --0 TO 76 AT. PER CENT SE -- PHASE DIAGRAM 67-01 M14-57424
INFLUENCE OF ORDERING ON THE PROPERTIES OF SOLID SOLUTIONS OF THE SYSTEM --HGSE--3X---IN2SE3--1-X
67-06 M16-70982

SEMICONDUCTORS, CHEMICAL PROPERTIES
THE CHEMICAL BOND AND THE STRUCTURE OF VALENCE BANDS IN COVALENT SEMICONDUCTORS
67-11 M15-80154
THE CHEMICAL BOND IN SEMICONDUCTORS OF THE A2 3 B3 6 TYPE 67-11 M16-80173

SEMICONDUCTORS, CLEANING
CHEMICAL POLISHING OF CADMIUM SULFIDE
67-06 M12-70668
ACTIVATION ENERGIES IN THE CHEMICAL ETCHING OF SEMICONDUCTORS IN HNO3-HF-CH3COOH
67-12 M12-82460
METHOD FOR PRODUCING SEMICONDUCTOR CRYSTAL SURFACES WITH A ROUGHNESS OF LESS THAN 0.05 MICRONS
67-12 M12-82499

SEMICONDUCTORS, COATING
A UNIQUE DOUBLE DEPOSITION SYSTEM
67-05 M12-68906
THE DEPOSITION OF THIN SIO2 LAYERS THROUGH THE HYDROLYSIS OF SILICON TETRACHLORIDE
67-06 M12-71196
THE GROWTH AND ETCHING OF SI THROUGH WINDOWS IN SIO2 67-06 M14-72173
BIAS SPUTTERING.. ITS TECHNIQUES AND APPLICATIONS
67-07 M12-73835
SOME APPLICATIONS OF TRIODE SPUTTERING TO INTEGRATED CIRCUITS CIRCUITS 67-08 M12-75602
VAPOR PLATING OF TIN ONTO GALLIUM ARSENIDE
67-10 M15-79126
A SURVEY OF THIN-FILM VACUUM DEPOSITION TECHNIQUES
67-11 M12-80362

SEMICONDUCTORS, CRYSTAL GROWTH
EPITAXIAL GROWTH OF BULK-QUALITY GALLIUM ARSENIDE ON GALLIUM ARSENIDE AND GERMANIUM SUBSTRATES
67-01 M14-57126
GROWTH PYRAMIDS IN EPITAXIAL GAAS
67-01 M14-57448
EPITAXIAL GROWTH OF GALLIUM ARSENIDE SOLID SOLUTION SINGLE CRYSTALS 67-01 M14-57654
CRYSTALLIZATION OF INDIUM PHOSPHIDE FROM THE GASEOUS PHASE 67-01 M14-57655
RHEOTAXIAL GROWTH OF SILICON WITH GERMANIUM-SILICON ALLOYS 67-01 M14-58317
GROWTH OF ZNSE SINGLE CRYSTAL BY THE CHEMICAL TRANSPORT REACTION 67-01 M14-58328
PRELIMINARY EXPERIMENTS ON FABRICATING MOS TRANSITORS AND MOS INTEGRATED CIRCUITS
67-01 M16-58315
GROWTH OF INAS WHISKERS IN WURTZITE STRUCTURE
67-02 M14-59067
EPITAXIAL GROWTH OF GERMANIUM ON GERMANIUM SUBSTRATES CLEANED AND HEATED BY ELECTRON BOMBARDMENT 67-02 M14-61525
GROWTH OF VANADIUM ON SILICON SUBSTRATES
67-02 M14-61766
SELECTIVE EPITAXIAL DEPOSITION OF GALLIUM ARSENIDE IN HOLES 67-02 M14-61767
PREPARATION OF HOMOGENEOUS HGTE-ZNTE ALLOYS
67-02 M14-61770
REPRODUCIBLE PREPARATION OF SN1-XPBXTE EPITAXIAL FILMS WITH MODERATE CARRIER CONCENTRATIONS
67-02 M14-61823
THE KINETICS OF EPITAXIAL SILICON DEPOSITION BY THE HYDROGEN REDUCTION OF CHLOROSILANES
67-03 M14-65695
ORIENTED GROWTH OF SEMICONDUCTORS. PT. 3. GROWTH OF GALLIUM ARSENIDE ON GERMANIUM
67-03 M14-65873
ORIENTED GROWTH OF SEMICONDUCTORS. PT. 4. VACUUM DEPOSITION OF EPITAXIAL INDIUM ANTIMONIDE
67-03 M14-65874
METHOD FOR PREPARATION OF THIN, ORIENTED GAAS CRYSTALS 67-03 M14-65897
TOPOGRAPHY OF SILICON WEB CRYSTAL SURFACES
67-03 M15-65660
SOLUBILITY OF ZNSE AND ZNTE IN GA AND IN
67-03 M16-65388
THE PREPARATION AND PROPERTIES OF ZNSIAS2, ZNGEP2 AND CDGEP2 SEMICONDUCTING COMPOUNDS
67-03 M16-65394
PREPARATION OF SEMICONDUCTOR MATERIALS. PT. 3
67-03 M16-65456
EPITAXIAL GROWTH OF 3-5 MATERIALS
67-03 M16-65659
DEFECT FORMATION IN EPITAXIAL FILMS ON NATIVE AND FOREIGN SUBSTRATES 67-04 M13-67741
APPARATUS FOR GROWING SINGLE CRYSTALS OF UNSTABLE SEMICONDUCTING COMPOUNDS 67-04 M14-66034
GROWING OF CDTE SINGLE CRYSTALS BY STATIC SUBLIMATION UNDER PRESSURE OF ONE COMPONENT
67-04 M14-66038
FORMATION TEMPERATURES FOR EVAPORATED EPITAXIAL GERMANIUM FILMS 67-04 M14-66393
SILICON CONTAMINATION OF GAAS CRYSTALS GROWN IN GLASSY CARBON BOATS 67-04 M14-67000
METALLURGY IN THE SEMICONDUCTOR INDUSTRY
67-04 M16-68044
EFFECTS OF DOPING ON THE GROWTH RATE AND MORPHOLOGY OF EPITAXIAL GALLIUM ARSENIDE
67-05 M14-68591
PREPARATION OF EPITAXIAL GAXIN1-XAS
67-05 M14-68623
PREPARATION AND PROPERTIES OF EPITAXIAL GALLIUM PHOSPHIDE 67-05 M14-68628
A P-N JUNCTION IN SILICON WHISKERS GROWN BY VLS METHODS 67-05 M14-68718
USE OF THE METHOD OF SHORT-RANGE TRANSPORT FOR THE PREPARATION OF EPITAXIAL LAYERS OF SEMICONDUCTOR MATERIALS 67-06 M14-70216
REFLECTION X-RAY TOPOGRAPHY OF GAAS DEPOSITED ON GE
67-06 M14-70667
VAPOR PHASE GROWTH AND PROPERTIES OF GAAS GUNN DEVICES 67-06 M14-71149
RAPID VAPOR PHASE GROWTH OF HIGH-RESISTIVITY GAP FOR ELECTRO-OPTIC MODULATORS 67-06 M14-71150
TECHNIQUES FOR MEASURING THE TWIN SPACING IN DENDRITES AND WEBS OF SEMICONDUCTORS
67-06 M14-71409
PROCESS FOR GROWTH OF SINGLE-CRYSTAL SILICON RIBBON
67-06 M14-71696
GROWTH OF CDS FROM LIQUID CD SOLUTION
67-06 M14-72176
DETERMINATION OF MICROSCOPIC RATES OF GROWTH IN SINGLE CRYSTALS 67-06 M14-72181
REACTIVELY SPUTTERED VANADIUM DIOXIDE THIN FILMS
67-06 M14-72199
DONOR AND CARRIER DISTRIBUTIONS IN OXYGEN-GROWN GAAS 67-06 M16-71144
EPITAXIAL DEPOSITION OF GAAS IN AN ARGON ATMOSPHERE
67-06 M16-72180
THE PREPARATION AND PROPERTIES OF EPITAXIAL GALLIUM ARSENIDE 67-07 M14-72914
GALLIUM ARSENIDE EPITAXIAL TECHNOLOGY
67-07 M14-72915
DISTRIBUTION COEFFICIENTS IN GALLIUM ARSENIDE
67-07 M14-72919
RECENT PROGRESS IN THE PREPARATION OF VERY PURE GALLIUM ARSENIDE 67-07 M14-72921
CRYSTAL GROWTH AND ORIENTATION OF VACUUM DEPOSITED FILMS OF CDTE 67-07 M14-73318
GROWTH MECHANISMS AND CRYSTALLINE QUALITY OF DIAMOND TYPE COMPOUNDS AND CRYSTALS IN THE 3-5 AND 2-6 GROUPS 67-07 M14-73926
PREPARATION AND CHARACTERISTICS OF GALLIUM ARSENIDE 67-07 M16-72916
PREPARATION AND SOME PROPERTIES OF SOLID SOLUTIONS

CD1-XMGXTE 67-08 M14-75058
POLYMORPHISM IN SOME IV-VI COMPOUNDS INDUCED BY HIGH PRESSURE AND THIN-FILM EPITAXIAL GROWTH 67-08 M14-75552
IMPROVED METHOD FOR GROWING 2-6 CRYSTALS FROM THE VAPOR PHASE 67-08 M14-75997
CONCERNING THE GROWTH OF EPITAXIAL GERMANIUM FILMS BY THE SANDWICH METHOD 67-09 M14-76768
METHOD OF OBTAINING HOMOGENEOUS FILMS OF SEMICONDUCTING III-V COMPOUNDS 67-09 M14-76770
INVESTIGATION OF THE PROCESS OF GROWING EPITAXIAL GAAS FILMS BY USING THE OPEN IODIDE METHOD 67-09 M14-76851
THE PRODUCTION OF MERCURY TELLURIDE MONOCRYSTALS 67-09 M14-76936
OBSERVATION OF THE GROWTH PROCESS OF GALLIUM ARSENIDE ON TUNGSTEN 67-10 M14-79024
GROWING CADMIUM SULFIDE CRYSTALS FOR ULTRASONICS AMPLIFICATION 67-10 M14-79248
GROWTH OF GALLIUM ARSENIDE SINGLE CRYSTAL FROM LIQUID PHASE ON SEED CRYSTAL 67-11 M14-80822
GROWTH OF NONDENDRITIC SINGLE-CRYSTAL RIBBONS OF GERMANIUM 67-11 M14-80837
CERTAIN PROBLEMS IN THE PRODUCTION AND INVESTIGATION OF EPITAXIAL GERMANIUM LAYERS 67-11 M14-81640

SEMICONDUCTORS, CRYSTAL LATTICES
PRODUCTION OF DISORDERED REGIONS IN GERMANIUM BY ELECTRON IRRADIATION 67-01 M16-57127
ENERGY DEPENDENCE OF ANISOTROPY OF DEFECT PRODUCTION IN ELECTRON IRRADIATED DIAMOND-TYPE CRYSTALS. PT. 1. EXPERIMENTAL MEASUREMENTS ON N- AND P-TYPE SILICON 67-01 M16-57944
CRYSTAL STRUCTURES OF ALPHA- AND BETA-INDIUM SELENIDE, IN2SE3 67-02 M13-59479
AN ELECTRON-DIFFRACTION STUDY OF AMORPHOUS TLSE 67-02 M13-61656
DISLOCATIONS IN SILICON DUE TO LOCALIZED DIFFUSION 67-02 M13-61829
PREPARATION OF HEXAGONAL CADMIUM TELLURIDE FILMS 67-02 M14-61660
EFFECT OF 60CO GAMMA RAYS ON HIGH-RESISTIVITY P-TYPE SI 67-02 M14-61833
EFFECTS OF STRESS-INDUCED BAND-GAP WIDENING AND DEFECTS IN GAAS JUNCTIONS 67-02 M15-61830
DIRECT OBSERVATION OF INTERACTING DISLOCATION LOOPS FROM DIFFERENT SOURCES IN BI2TE3 67-03 M13-65135
THE CRYSTALLINE STRUCTURE OF ZNTE THIN FILMS 67-03 M13-65223
VIBRATIONS OF INTERSTITIAL LI PLUS IONS IN SILICON. PT. 1. FORCE CONSTANTS 67-03 M13-65562
VIBRATIONS OF INTERSTITIAL LI PLUS IONS IN SILICON. PT. 2. FREQUENCIES OF LOCALIZED MODES 67-03 M13-65563
LOW-TEMPERATURE INTERNAL FRICTION IN SILICON 67-03 M16-65632
INVESTIGATION OF INHOMOGENEITIES IN GAAS BY ELECTRON-BEAM EXCITATION 67-05 M13-68621
TEXTURAL AND ELECTRICAL PROPERTIES OF VACUUM-DEPOSITED GERMANIUM FILMS 67-05 M14-68622
INFRARED STUDIES OF DEFECT PRODUCTION IN N-TYPE SI--IRRADIATION-TEMPERATURE DEPENDENCE 67-05 M14-69817
DEPENDENCE OF CARRIER SCATTERING ANISOTROPY IN N-GE ON IMPURITY CONCENTRATION 67-05 M15-68576
DISLOCATIONS IN SEMICONDUCTORS 67-05 M16-69451
TWINNING AND MORPHOLOGY OF EPITAXIAL LAYERS OF GAAS ON GE 67-06 M13-70513
INTERACTION OF RADIATION DEFECTS WITH DISLOCATIONS IN GERMANIUM 67-06 M13-71763
STUDY OF THE INTERACTION OF DEFECTS BY MEANS OF THE ANOMALOUS TRANSMISSION OF X-RAYS 67-06 M14-70507
INFLUENCE OF OXYGEN IN SILICON ON THE MOTION OF DISLOCATIONS GENERATED BY DIFFUSION 67-06 M14-70873
THE OBSERVATION OF DEFECTS IN GAAS USING PHOTOLUMINESCENCE AT 20 K 67-06 M14-71147
THE CRYSTALLINE PERFECTION OF MELT-GROWN GAAS SUBSTRATES AND GA --AS, P-- EPITAXIAL DEPOSITS 67-06 M14-71422
LEED MEASUREMENT OF H2S AND H2SE ADSORPTION ON GERMANIUM --111-- 67-06 M15-71028
ANODIC BEHAVIOR OF GAAS SINGLE CRYSTALS AT INCREASED CURRENT DENSITIES IN ALKALINE AND ACIDIC SOLUTIONS 67-06 M15-71148
INTERACTION BETWEEN RADIATION DEFECTS AND DISLOCATIONS IN GERMANIUM 67-06 M16-71917
DISLOCATION STUDIES IN BI2TE3 BY ETCH-PIT TECHNIQUE 67-07 M13-72627
STRUCTURAL DEFECTS IN EPITAXIAL GALLIUM ARSENIDE 67-07 M13-72918
DISLOCATION DENSITY AND LOCAL SLIP IN GERMANIUM SINGLE CRYSTALS 67-07 M13-73928
DETECTION OF SELENIUM CLUSTERING IN GAAS BY TRANSMISSION ELECTRON MICROSCOPY 67-07 M14-72650
PYRAMID FORMATION IN EPITAXIAL GALLIUM ARSENIDE LAYERS 67-07 M14-72917
LARGE AREA SILICON JUNCTIONS BY EPITAXIAL GROWTH TECHNIQUE 67-07 M14-73461
SURFACE MEASUREMENTS USING LOW ENERGY ELECTRON DIFFRACTION 67-08 M13-74708
PERFECT EPITAXY OF SILICON FILMS ON SILICON AS SEEN IN LARGE-AREA X-RAY TOPOGRAPHS 67-08 M14-75156
CHEMICAL INFLUENCE OF HOLES AND ELECTRONS ON DISLOCATION VELOCITY IN SEMICONDUCTORS 67-08 M16-74395
INSB AND INAS LATTICE CHANGE DURING ZINC DIFFUSION 67-09 M14-77456
MICROSCOPIC EVIDENCE OF PLASTIC DEFORMATION ON CLEAVED GERMANIUM SURFACES 67-10 M13-79158
DISTRIBUTION AND DENSITY OF DISLOCATIONS IN BENT AND ANNEALED GALLIUM ARSENIDE AND INDIUM ANTIMONIDE CRYSTALS 67-10 M13-79246
CRYSTAL STUDIES OF SEMICONDUCTORS 67-10 M13-79287
POLYGONIZATION IN SILICON MONOCRYSTAL 67-10 M13-80026
DEFECTS IN THE COMPOUND BI2TE3 CAUSED BY IRRADIATION WITH PROTONS 67-10 M16-79152
EFFECT OF IMPURITIES ON THE ANNEALING BEHAVIOR OF IRRADIATED SILICON 67-10 M16-79154
ELECTROVALENCE SCHEME FOR SEMICONDUCTING COMPOUNDS OF THE SKUTTERUDITE STRUCTURAL TYPE 67-11 M13-80178
VARIATION OF THE MEAN-SQUARE DYNAMIC DISPLACEMENTS OF ZINC AND CADMIUM TELLURIDES AS A FUNCTION OF THE TEMPERATURE 67-11 M14-80166
SOME CHARACTERISTICS OF THE CHEMICAL BOND IN MULTICOMPONENT SEMICONDUCTING COMPOUNDS 67-11 M16-80174
CRYSTAL-FIELD SPECTRA OF 3DN IMPURITIES IN 2-6 AND 3-5 COMPOUND SEMICONDUCTORS 67-11 M16-81494

SEMICONDUCTORS, CUTTING
OBSERVATIONS ON SPECIMEN CUTTING BY WIRES 67-09 M08-78183

SEMICONDUCTORS, DEFECTS
DEFECT-IMPURITY RELATIONSHIPS IN ELECTRON-DAMAGED SILICON 67-03 M16-65742

SEMICONDUCTORS, DEPOSITION
SILICON-ON-SAPPHIRE APPROACH AFFORDS FREEDOM AND FLEXIBILITY 67-05 M12-68700
CHARACTERISTICS OF THIN FILM SEMICONDUCTOR STRAIN GAGES 67-09 M12-77305
SOME APPLICATIONS OF CONTOUR DEPOSITION 67-10 M12-78866

SEMICONDUCTORS, DETECTORS
FABRICATION OF THICK GERMANIUM DETECTORS 67-08 M20-75307

SEMICONDUCTORS, DIFFUSION
DIFFUSION FROM DOPED OXIDE FILMS AS A PROCESS FOR THE PRODUCTION OF STRUCTURAL SEMICONDUCTOR ELEMENTS 67-02 M14-59620
DIFFUSION OF NITROGEN INTO SILICON CARBIDE SINGLE CRYSTALS DOPED WITH ALUMINUM 67-02 M14-61502
DIFFUSION OF LI IN INSB 67-02 M16-60520
X-RAY MEASUREMENT OF ELASTIC STRAIN AND LATTICE CONSTANT OF DIFFUSED SILICON 67-03 M14-65769
SURFACE RECOMBINATION VELOCITIES AND DIFFUSION LENGTHS IN GAAS 67-04 M14-66762
INTERSTITIAL SOLUTIONS OF NOBLE METALS IN METALS AND SEMICONDUCTORS 67-04 M14-67540
COPPER DIFFUSED GALLIUM ARSENIDE P-N JUNCTIONS 67-04 M16-66119
PRECIPITATES INDUCED IN GAAS BY THE INDIFFUSION OF ZINC 67-05 M14-68626
DECORATED DISLOCATIONS AND SUB-SURFACE DEFECTS INDUCED IN GAAS BY THE IN-DIFFUSION OF ZINC 67-05 M14-68627
AN ELECTROPHOTOGRAPHIC METHOD FOR DETERMINING THE DIFFUSION COEFFICIENT OF LITHIUM IN P-TYPE SILICON 67-05 M16-69379
INVESTIGATION OF THE DIFFUSION OF BORON IN SILICON FROM A LAYER DOPED BY ION BOMBARDMENT

67-05 M16-69391
DIFFUSION AND SOLUBILITY OF CADMIUM IN INDIUM ARSENIDE 67-05 M16-69395
INVESTIGATION OF THE DIFFUSION OF ANTIMONY AND INDIUM IN GERMANIUM, INCLUDING EFFECT OF INTERNAL ELECTRIC FIELD 67-06 M14-70869
THE BEHAVIOR OF IMPURITIES IN LEAD SELENIDE SINGLE CRYSTALS 67-06 M14-71372
ON THE DIFFUSION OF ALUMINUM INTO SILICON 67-06 M14-71695
DIFFUSION OF INDIUM OVER THE SURFACE OF GERMANIUM 67-06 M14-71831
INVESTIGATION OF THE DIFFUSION OF ANTIMONY AND INDIUM IN GERMANIUM WITH ACCOUNT OF THE INTERNAL ELECTRIC FIELD 67-06 M14-71832
DIFFUSION OF ANTIMONY IN EPITAXIAL LAYERS OF GERMANIUM 67-06 M14-71921
THE EFFECT OF APPLIED ELECTRIC FIELD ON DIFFUSION OF IMPURITIES IN GALLIUM ARSENIDE 67-06 M16-70986
ELECTROLUMINESCENCE OF IRON-SULFUR DIFFUSED GAAS JUNCTIONS 67-06 M16-71145
ANODIC OXIDE GROWTH BEHAVIOR ON SILICON 67-06 M16-72177
DISSOCIATIVE DIFFUSION OF NICKEL IN SILICON AND SELF-DIFFUSION OF SILICON 67-08 M14-75936
EXPERIMENTAL STUDY ON THE OUT-DIFFUSION OF SB FROM GE AND ITS APPLICATION TO TRANSISTORS 67-08 M16-74006
DIFFUSION OF THE CHALCOGENS IN THE 2-6 COMPOUNDS 67-09 M14-77174
MEASUREMENT OF DIFFUSION PROFILE OF ZN IN N-TYPE GAAS BY A SPREADING RESISTANCE TECHNIQUE 67-09 M14-78063
EFFECT OF AN INTERNAL ELECTRIC FIELD ON SIMULTANEOUS DIFFUSION OF IMPURITIES IN SEMICONDUCTORS 67-11 M14-81044

SEMICONDUCTORS, ELECTRICAL MEASUREMENTS
ELECTROREFLECTANCE MEASUREMENTS WITH THE ELECTROLYTE METHOD IN INFRARED 67-03 M16-65137

SEMICONDUCTORS, ELECTRICAL PROPERTIES
IDEAL MOS CURVES FOR SILICON 67-01 M15-57221
THERMOELECTRIC POWER AND ELECTRICAL RESISTIVITY OF CU3AU DOPED WITH 3D TRANSITION METALS 67-01 M15-57476
MEASUREMENT OF THE SURFACE STATES BY UTILIZING MOS STRUCTURE 67-01 M15-58312
TRAP-DOMINATED ELECTRICAL AND OPTICAL EFFECTS IN CRYSTALLINE BORON 67-01 M15-58415
THE EFFECTIVE IONIZATION RATE FOR HOT CARRIERS IN GAAS 67-01 M16-57986
STUDY OF IRREGULARITIES DETECTED BY ANODE PICKLING IN N-TYPE GERMANIUM MONOCRYSTALS 67-02 M13-59566
PHOTOCONDUCTIVITY OF ANISOTROPICALLY DEFORMED INTRINSIC GERMANIUM 67-02 M15-61522
SURFACE PINNED LAYER-LIKE FIELD INHOMOGENEITIES IN CDS 67-02 M15-61526
LONG-TIME EFFECT OF EXTERNAL FIELDS ON SURFACE SILICON OXIDE CONDUCTIVITY 67-02 M15-61535
ELECTRICAL PROPERTIES OF SULFIDES OF TRANSITION METALS 67-02 M15-61633
PIEZOELECTRIC, ELASTIC, AND DIELECTRIC CONSTANTS OF HEXAGONAL ZINC SULFIDE 67-02 M15-61657
PHOTOCURRENT AND THERMAL RELEASE TIME STUDIES OF URANIUM DIOXIDE 67-02 M16-60512
ON THE VOLTAGE INDUCED BY AN ELECTRON BEAM IN A BULK SEMICONDUCTOR CRYSTAL 67-02 M16-60513
TRANSIENT PHENOMENA IN THE CAPACITANCE OF GAAS SCHOTTKY BARRIER DIODES 67-02 M16-60519
VAPOR PHASE GROWTH OF GALLIUM ARSENIDE MICROWAVE DIODES 67-02 M16-61501
LOW RESISTIVITY EPITAXIAL LAYERS OF SILICON 67-02 M16-61503
HIGH PRESSURE PHASE IN METALLIC INDIUM ANTIMONIDE 67-03 M14-65147
MAGNETORESISTANCE IN THE EXTREME QUANTUM LIMIT IN N-TYPE INSB 67-03 M16-65109
BEHAVIOUR OF SELENIUM IN GAAS 67-03 M16-65387
CARRIER-CONCENTRATION PROFILES OF N-TYPE SN AND TE DOPED EPITAXIAL GAAS FILMS 67-03 M16-65430
MEASUREMENTS OF THE DECAY OF LUMINESCENCE OF ELECTROLUMINESCENT ZNS PHOSPHORS WITH DIFFERENT EXCITATION 67-03 M16-65440
LOW-TEMPERATURE GAMMA IRRADIATION AND ANNEALING OF INDIUM ANTIMONIDE 67-03 M16-65629
TEMPERATURE AND MAGNETIC FIELD DEPENDENCES OF THE JOSEPHSON CURRENT IN THE JUNCTION WITH A VERY THIN FILM OF TIN 67-03 M16-65643
ELECTRICAL RESISTIVITY OF SINGLE CRYSTAL CRO2 67-03 M16-65649
NONLINEAR RESISTANCES 67-03 M16-65724
STUDY OF N- AND P-TYPE SILICON EXPOSED TO HIGHLY ENERGETIC RADIATION 67-03 M16-65741
PHOTOCONDUCTIVITY DECAY OF ZNO CRYSTALS IN OXYGEN 67-03 M16-65749
DISTRIBUTIONS OF ELECTRICALLY ACTIVE DEFECTS IN THE SURFACE REGION OF CDS SINGLE CRYSTALS 67-03 M16-65806
DIFFUSION ANALYSIS OF THE OBSERVED TIME LAG OF THE THERMAL COEFFICIENT OF RESISTIVITY OF GERMANIUM 67-03 M16-65886
ANNEALING OF FAST NEUTRON DAMAGE IN IMPURITY-CONDUCTING N-TYPE GERMANIUM 67-03 M16-65892
ANNEALING STUDY IN ELECTRON-IRRADIATED N-TYPE SILICON 67-03 M16-65898
CONDUCTANCE INCREASE IN N-PBTE FILMS VIA ION BOMBARDMENT 67-04 M16-66176
CATHODOLUMINESCENCE OF P-TYPE GAAS 67-04 M16-66761
HIGH FIELD MOBILITY OF PHOTOELECTRONS IN CDS 67-04 M16-66773
CURRENT SATURATION AND INSTABILITIES IN CDS CRYSTALS 67-04 M16-66775
ACOUSTOELECTRIC EFFECT IN SEMICONDUCTING CDS 67-04 M16-66776
INTERVALLEY SCATTERING RATE AND HIGH-FIELD ELECTRON DISTRIBUTIONS IN GAAS 67-04 M16-66781
MIXED SCATTERING IN 3-V COMPOUNDS 67-04 M16-66782
ANNEALING OF NEUTRON-IRRADIATION-INDUCED CHANGES IN IMPURITY CONDUCTION IN ANTIMONY-DOPED GERMANIUM 67-04 M16-66787
ROLE OF PURPOSELY PRODUCED ALTERNATIONS OF CRYSTAL STRUCTURE IN THE MANUFACTURE OF CERAMIC PRODUCTS 67-05 M15-68813
INFLUENCE OF ALLOYING ON ELECTRIC CONDUCTIVITY OF CERIUM SULFIDE 67-05 M16-68712
ANNEALING OF PROTON RADIATION DAMAGE IN SILICON SOLAR CELLS 67-05 M16-69093
TRANSIENT CURRENT DECAY IN SEMICONDUCTING ZNO DUE TO THE ACOUSTO-ELECTRIC EFFECT 67-05 M16-69099
DECREASE OF BUILT-IN VOLTAGE IN TUNNEL DIODES CAUSED BY IRRADIATION 67-05 M16-69294
SPACE-CHARGE CURRENTS IN N-TYPE GAAS 67-05 M16-69298
EFFECTS OF PREOXIDATION TREATMENT ON MOS TRANSISTOR CHARACTERISTICS 67-05 M16-69299
PHOTOELECTRIC PROPERTIES OF SILICON DOPED WITH COPPER, TUNGSTEN AND PLATINUM 67-05 M16-69380
OSCILLATORY PHOTOCONDUCTIVITY OF CADMIUM TELLURIDE AND ITS RELATIONSHIP TO EXCITON ABSORPTION 67-05 M16-69381
PHOTOCONDUCTIVITY QUENCHING SPECTRA OF A THIN SAMPLE OF GERMANIUM AT 77 C 67-05 M16-69389
MEASUREMENT OF THE MAGNETORESISTANCE OF P-TYPE SILICON IN STRONG PULSED MAGNETIC FIELDS 67-05 M16-69390
INFLUENCE OF SURFACE BARRIERS ON THE PHOTOCONDUCTIVITY OF GERMANIUM 67-05 M16-69393
STRAIN SENSITIVITY OF VACUUM DEPOSITED THIN FILMS 67-06 M12-71953
HIGH PURITY EXPITAXIAL INAS 67-06 M15-70084
RESISTIVITY INHOMOGENEITIES IN SILICON CRYSTALS 67-06 M15-70663
THE ROLE OF SURFACE TREATMENT IN THE FIELD EFFECT ANOMALY OF N-TYPE INSB AT HIGH MAGNETIC FIELDS 67-06 M15-71025
NEGATIVE RESISTANCE IN CADMIUM SULPHIDE FILMS 67-06 M15-71044
INFLUENCE OF UNIAXIAL COMPRESSION ON HOPPING CONDUCTION IN P-TYPE SI 67-06 M15-71774
STRUCTURE, CONDUCTIVITY AND HALL EFFECT OF ELECTRON BOMBARDMENT EVAPORATED SILICON FILMS ON SAPPHIRE 67-06 M15-72001
THERMOELECTRIC POWER OF GERMANIUM. EFFECT OF 2000-ATM PRESSURE 67-06 M16-69919
ELECTRICAL AND OPTICAL PROPERTIES OF AMORPHOUS GERMANIUM 67-06 M16-69921
P-TYPE PHOTOELECTRIC BEHAVIOR IN CDS DOMINATED BY A HIGH-RESISTIVITY REGION NEAR THE ANODE 67-06 M16-69922
THE THERMAL PRODUCTION OF ACCEPTORS IN INSB 67-06 M16-69960

IMPURITY PHOTOCONDUCTIVITY SPECTRA OF P-TYPE GERMANIUM WITH GA, HG, AU AND NI IMPURITIES 67-06 M16-70050
THE ANISOTROPY OF THE ELECTRONIC PROPERTIES OF INTRINSIC CDSE 67-06 M16-70465
CONTACTLESS MEASUREMENT OF RESISTIVITY OF SLICES OF SEMICONDUCTOR MATERIALS 67-06 M16-70551
SURFACE-STATE MODELS FOR CLEAN AND OXYGEN-COVERED GERMANIUM 67-06 M16-71024
ELECTRICAL CONDUCTIVITY OF SILICON OXIDE 67-06 M16-71026
MAGNETIC AND ELECTRICAL PROPERTIES OF COPPER CONTAINING SULPHIDES AND SELENIDES WITH SPINEL STRUCTURE 67-06 M16-71172
SOME DIELECTRIC AND ELECTRONIC PROPERTIES OF CDSE FILMS 67-06 M16-71185
IMPURITY PHOTOCONDUCTIVITY OF GERMANIUM DOPED WITH ANTIMONY, ARSENIC, BORON, OR INDIUM 67-06 M16-71757
PHOTOELECTRIC STATES IN SILICON CONTAINING RADIATION DEFECTS 67-06 M16-71759
NEGATIVE DIFFERENTIAL RESISTANCE AND INDUCTIVE EFFECTS IN SILICON CARBIDE 67-06 M16-71761
NONSINUSOIDAL CURRENT OSCILLATIONS IN N-TYPE SILICON COMPENSATED WITH ZINC 67-06 M16-71767
LIFETIME IN SINGLE CRYSTALS OF GALLIUM ARSENIDE 67-06 M16-71830
INFLUENCE OF FAST-ELECTRON BOMBARDMENT ON THE SPECTRA OF PHOTOCONDUCTIVITY OF GAAS CRYSTALS GROWN IN AN OXYGEN ATMOSPHERE 67-06 M16-71918
NEGATIVE DIFFERENTIAL RESISTANCE AND INDUCTIVE EFFECTS IN SILICON CARBIDE 67-06 M16-71919
FIELD DISTRIBUTION IN N-TYPE GAAS UNDER HIGH ELECTRIC FIELD 67-06 M16-72047
A METHOD FOR MEASURING THE HALL EFFECT IN MATERIALS WITH HIGH SPECIFIC RESISTANCE 67-06 M16-72142
RESISTANCE ANOMALY OF INSB AT VERY LOW TEMPERATURES 67-06 M16-72148
THERMOELECTRIC PROPERTIES 67-07 M15-73686
THE PHASE TRANSITION IN VO2 67-07 M16-72408
UNIAXIAL STRESS EFFECT OF GE PN JUNCTIONS DOPED WITH COPPER 67-07 M16-73321
PHOTOCONDUCTIVE EFFECT OF ZNO-CU CRYSTALS 67-07 M16-73324
ELECTRONIC PROPERTIES AND APPLICATIONS 67-07 M16-73688
SEMICONDUCTOR-TO-METAL TRANSITION IN V203 67-07 M16-73946
PERMITTIVITY OF SOLID SOLUTIONS IN THE SYSTEM ZNXHG1-XTE 67-07 M16-73998
TEMPERATURE DEPENDENCE OF THE ENERGY GAP IN SEMICONDUCTOPS 67-07 M16-74015
CARRIER RECOMBINATION IN INAS 67-07 M16-74059
SEMICONDUCTORS AND SEMIMETALS. V. 1. PHYSICS OF 3-V COMPOUNDS 67-07 M16-74201
FREEZE-OUT EFFECTS, HOT ELECTRON EFFECTS, AND SUBMILLIMETER PHOTOCONDUCTIVITY IN INSB 67-07 M16-74206
MAGNETORESISTANCE 67-07 M16-74207
RESISTIVITY PROFILES AND THICKNESS MEASUREMENTS ON MULTILAYERED SEMICONDUCTOR STRUCTURES BY THE SPREADING RESISTANCE TECHNIQUE 67-08 M15-74720
HALOGEN TREATMENT OF BATIO3 SEMICONDUCTORS 67-08 M15-75990
FREE CARRIER PIEZOABSORPTION IN N-TYPE GERMANIUM 67-08 M16-75005
ELECTRICAL EVALUATION OF SEMICONDUCTOR FILMS 67-08 M19-74718
STUDY OF THERMOELECTROMOTIVE FORCES IN CERTAIN COMPOUNDS DURING FUSION AND IN LIQUID PHASE 67-09 M15-77120
A NEW CURRENT INSTABILITY IN N-TYPE GERMANIUM 67-09 M15-77153
GALLIUM ARSENIDE FETS OUTPERFORM CONVENTIONAL SILICON MOS DEVICES 67-09 M16-76640
PRODUCTION, STRUCTURE AND CERTAIN PHOTOELECTRIC PROPERTIES OF SINGLE- AND MULTI-LAYER SINGLE-CRYSTAL AIIBVI AND AIVBVI CHALCOGENIDE FILMS 67-09 M16-76761
CURRENT SATURATION IN THE EVAPORATED GAAS FILMS 67-09 M16-77453
ELECTRICAL RESISTIVITY OF INDIUM-ANTIMONY ALLOY FILMS PREPARED BY VACUUM EVAPORATION 67-10 M15-78775
EFFECT OF DONOR IMPURITY CONCENTRATION ON THE PIEZORESISTANCE OF N-TYPE GASB 67-10 M15-79015
CONDUCTIVITY RANGE AND ABSORPTION EDGE OF ZINC SELENO-TELLURIDES 67-10 M15-79120
TRAVELING-WAVE AMPLIFICATION BY DRIFTING CARRIERS IN SEMICONDUCTORS 67-10 M15-79124
LONGITUDINAL MAGNETORESISTANCE AND HALL MOBILITY OF N-TYPE GERMANIUM AT HIGH ELECTRIC FIELDS 67-10 M15-79153
NATURE OF ELECTRICAL CONTACT BETWEEN TARNISHED SURFACES 67-10 M15-79155
LOW TEMPERATURE ELECTRICAL PROPERTIES OF SILICON MATERIAL 67-10 M15-80025
PHOTOCONDUCTIVE DECAY IN N-TYPE POLYCRYSTALLINE FILMS OF INDIUM ARSENIDE 67-10 M16-79170
RECOMBINATION PROPERTIES OF THE GOLD ACCEPTOR LEVEL IN SILICON USING THE IMPURITY PHOTOVOLTAIC EFFECT 67-10 M16-79279
FOUNDATIONS OF CRYSTAL ELECTRONICS 67-10 M16-80002
PROPERTY VARIATIONS DUE TO SINTERING OF BI2TE3 THERMOELEMENTS MADE BY POWDER METALLURGY 67-11 M09-81068
THERMOELECTRIC AND GALVANOMAGNETIC MEASUREMENTS ON --BI2TE3--5--BI2SE3--1--SB2TE3--18 67-11 M15-80121
FLASH EVAPORATION AND THIN FILMS OF CUPROUS SULFIDE, SELENIDE, AND TELLURIDE 67-11 M15-80123
FIELD EMISSION FROM P-TYPE GERMANIUM 67-11 M15-80224
EFFECT OF DIFFUSED OXYGEN AND GOLD ON SURFACE PROPERTIES OF OXIDIZED SILICON 67-11 M15-80507
THERMOELECTRIC PROPERTIES OF YTTRIUM-GROUP V AND YTTRIUM-GROUP VI BINARY AND TERNARY COMPOUNDS 67-11 M15-80762
ELECTRICAL AND OPTICAL PROPERTIES OF SNO2-SI HETEROJUNCTIONS 67-11 M15-80823
AN ELECTRON BEAM METHOD OF MEASURING RESISTIVITY DISTRIBUTION IN MSEMICONDUCTORS 67-12 M15-82673
EFFECT OF ALLOYING ON THE ELECTROCONDUCTIVITY OF CERIUM SULFIDE 67-12 M16-82688

SEMICONDUCTORS, ETCHING
A SIMPLE METHOD OF PREPARING SILICON SPECIMENS 67-05 M13-69632
A NEW MASKING TECHNIQUE FOR SEMICONDUCTOR PROCESSING 67-09 M15-77895

SEMICONDUCTORS, FABRICATION
FABRICATION OF TELLURIUM THIN FILM TRANSISTOR 67-09 M16-78184

SEMICONDUCTORS, FERMI SURFACE
NEW METHODS FOR DE HAAS-SHUBNIKOV MEASUREMENTS 67-04 M16-67103

SEMICONDUCTORS, HEAT TREATMENT
HEAT TREATMENT OF INSB CRYSTALS WITH DIFFERENT DISLOCATION DENSITIES 67-11 M15-80237
DAMAGE FORMATION RATES IN GE SUBJECT TO THERMAL TREATMENT 67-12 M16-82020

SEMICONDUCTORS, HEATING
POSSIBILITIES OF USING INDUCTION HEATING AT AUDIOFREQUENCIES IN APPARATUS TO MANUFACTURE SEMICONDUCTING MATERIALS BY PULLING FROM THE MELT 67-01 M14-57686

SEMICONDUCTORS, IMPURITIES
IMPURITY DISTRIBUTION IN GALLIUM ARSENIDE SINGLE CRYSTALS GROWN BY CZOCHRALSKIS METHOD 67-01 M15-57652
THE SOLUBILITY OF IMPURITIES IN IN2TE3 67-04 M14-66028

SEMICONDUCTORS, IMPURITY EFFECTS
EFFECTS OF IMPURITY-VACANCY COMPLEX ON THE DEGREE OF COMPENSATION IN COMPOUND SEMICONDUCTORS 67-02 M16-59058
THE APPLICATION OF CRYSTAL FIELD THEORY TO THE ELECTRICAL PROPERTIES OF CO IMPURITIES IN GAP 67-04 M16-66757
EFFECT OF ADDITIVES ON THE SEMICONDUCTOR PROPERTIES AND BEGINNING OF INTERACTION OF V205 WITH CARBON 67-06 M15-70264

SEMICONDUCTORS, INOCULATION
METALLURGICAL ASPECTS OF THE ALLOY-DIFFUSION METHOD IN TRANSISTOR TECHNOLOGY 67-10 M14-79954

SEMICONDUCTORS, IRRADIATION
ANALYSIS OF N-TYPE GAAS WITH ELECTRON-BEAM-EXCITED RADIATIVE RECOMBINATION 67-05 M16-68620
PREPARATION OF HOMOGENEOUS N-TYPE INSB BY THERMAL-NEUTRON IRRADIATION 67-09 M16-77450

THE EFFECT OF THERMAL DEFECTS ON THE STABILITY OF GERMANIUM AGAINST RADIATION 67-10 M16-79475
EFFECTS OF ELECTRON IRRADIATION ON THE THERMAL CONDUCTIVITY OF N-AND P-TYPE GERMANIUM 67-11 M16-81485
ON THE NATURE OF DAMAGES IN INDIUM ANTIMONIDE PRODUCED BY GAMMA- AND X-IRRADIATION 67-12 M16-82019
IRRADIATION DAMAGE IN N-TYPE GERMANIUM AT 4.2 K 67-12 M16-82531
EFFECTS OF LOW-TEMPERATURE ELECTRON IRRADIATION ON THE ELECTRICAL PROPERTIES OF UNDOPED GASB 67-12 M16-82533
LASER DAMAGE ON SEMICONDUCTOR SURFACES 67-12 M16-83271

SEMICONDUCTORS, MACHINING
ELECTRIC SPARK CUTTING OF SEMICONDUCTOR MATERIALS 67-11 M12-81325
MICROMACHINING FOR MICROELECTRONICS 67-11 M16-81489

SEMICONDUCTORS, MAGNETIC PROPERTIES
MAGNETIC PROPERTIES OF CE, PR AND ND MONOCHALCOGENIDES AT 4.2 TO 1300 K 67-01 M16-57956
ELECTRON SPIN RESONANCE IN REDUCED SNO2 67-01 M16-57961
OSCILLATORY MAGNETOSTRICTION IN N-GALLIUM ANTIMONIDE 67-01 M16-58579
MAGNETORESISTIVE ELEMENTS AND THEIR APPLICATIONS 67-02 M16-59411
MAGNETIC SUSCEPTIBILITY OF GROUP 2, GROUP 4 SEMICONDUCTOR ZNO 67-03 M15-65919
ARSENIDES OF THE TRANSITION METALS. PT. 8. SOME BINARY AND TERNARY GROUP 8 DIARSENIDES AND THEIR MAGNETIC AND ELECTRICAL PROPERTIES 67-03 M15-65945
OSCILLATORY MAGNETO-ABSORPTION OF THE DIRECT TRANSITION IN THE LAYER COMPOUND GALLIUM SELENIDE AT 1.5 K 67-04 M16-66750
ELECTRON SPIN RESONANCE OF PHOSPHORUS-DOPED SILICON IN THE METALLIC CONDUCTION REGION 67-04 M16-66788
SHIFT OF THE MAGNETORESISTANCE OSCILLATION MAXIMA DUE TO AN ELECTRIC FIELD IN INSB 67-04 M16-67366
SHUBNIKOV-DE HAAS EFFECT IN IMPURITY BAND 67-04 M16-67424
MOSSBAUER EFFECT STUDY OF V2O3 67-04 M16-67476
MAGNETORESISTANCE OF UNIAXIALLY STRESSED GERMANIUM IN IMPURITY BAND CONDUCTION REGION 67-05 M16-69754
INTERBAND MAGNETOABSORPTION IN INAS AND INSB 67-06 M16-69920
PARAMAGNETIC CENTERS ON THE SURFACE OF CDSE 67-06 M16-70872
OSCILLATORY THERMOMAGNETIC EFFECTS IN LEAD TELLURIDE 67-07 M15-72950
LOCALIZED MAGNETIC MOMENTS IN IMPURITY-BANDED SEMICONDUCTORS 67-07 M15-73179
INTERBAND MAGNETO-OPTICAL STUDIES OF SEMICONDUCTORS AND SEMIMETALS 67-07 M15-73302
THE MAGNETIC SUSCEPTIBILITY OF P-TYPE CDSB 67-07 M16-73463
MAGNETIC ANOMALY IN THE METALLIC IMPURITY CONDUCTION 67-07 M16-73991
SOME INVESTIGATIONS ON THE ELECTRIC AND MAGNETIC PROPERTIES OF CR2O3-BEO SYSTEM 67-08 M15-74779
MAGNETIC RESONANCE OF MN IN PBS, PBSE, AND PBTE 67-08 M16-75928
TEMPERATURE AND FIELD DEPENDENCES OF THE KNIGHT SHIFT IN METALS AND SEMICONDUCTORS 67-09 M16-76781
THE ANISOTROPY OF PHOTOMAGNETIC EFFECTS IN GERMANIUM AND SILICON 67-10 M15-79118
RESISTANCE OF P-INSB IN A STRONG LONGITUDINAL MAGNETIC FIELD 67-10 M15-79473
MAGNETIC FIELD DEPENDENCE OF CURRENT OSCILLATIONS IN PIEZOELECTRIC SEMICONDUCTORS 67-11 M15-80604
LOW-TEMPERATURE MAGNETORESISTANCE OF N-TYPE GERMANIUM DOPED WITH SMALL AND INTERMEDIATE CONCENTRATIONS OF PHOSPHORUS 67-11 M15-81395
HOP-CONDUCTION MAGNETORESISTANCE IN P-TYPE GERMANIUM 67-11 M15-81396
NEGATIVE MAGNETORESISTANCE IN N-TYPE LEAD SULPHIDE 67-11 M15-81679
TRANSVERSE MAGNETORESISTANCE IN N-TYPE GERMANIUM 67-12 M15-82534
ACOUSTOELECTRIC OSCILLATIONS WITH FIELD-DEPENDENT PERIOD IN INDIUM ANTIMONIDE 67-12 M15-83010

SEMICONDUCTORS, MATERIALS
COMPOUND SEMICONDUCTOR MATERIALS 67-06 M16-71236

SEMICONDUCTORS, MEASURING INSTRUMENTS
THE USE OF SEMICONDUCTORS FOR THE STUDY OF BOILING HEAT TRANSFER TO LOW TEMPERATURE LIQUIDS 67-08 M15-75652

SEMICONDUCTORS, MECHANICAL PROPERTIES
THIRD ORDER ELASTIC CONSTANTS OF GALLIUM ARSENIDE 67-01 M17-57449
INVESTIGATION OF THE INITIAL STAGE OF DEFORMATION OF GALLIUM ARSENIDE SINGLE CRYSTALS 67-01 M17-57650
INVESTIGATION OF THE ANISOTROPY OF MICROHARDNESS IN BE, TE, SB, INBI, IN2TE3 SINGLE CRYSTALS AND TE-SE SOLID SOLUTIONS 67-01 M17-58096
FRACTURE OF SILICON AND GERMANIUM INDUCED BY PULSED ELECTRON IRRADIATION 67-03 M17-65744
INFLUENCE OF CHARGED DEFECTS ON MECHANICAL PROPERTIES OF LEAD SULFIDE 67-03 M17-65880
RELAXATION EFFECT ON SEMICONDUCTOR-INSULATOR INTERFACES 67-04 M16-67061
EFFECT OF SOME FACTORS ON THE MAGNITUDE AND DISTRIBUTION OF INTERNAL RESIDUAL STRESSES DURING THE CRYSTALLIZATION OF GERMANIUM SINGLE CRYSTALS 67-06 M14-70743
INFLUENCE OF DOPING ON THE PLASTIC DEFORMATION OF GALLIUM ARSENIDE SINGLE CRYSTALS 67-06 M17-70514
RESIDUAL STRAINS IN PHOSPHORUS-DIFFUSED SILICON 67-07 M17-72646
THE THIRD ORDER ELASTIC CONSTANTS OF DOPED N-TYPE GERMANIUM 67-07 M17-72841
A METHOD OF MEASURING THE HIGH TEMPERATURE MICROHARDNESS OF SEMICONDUCTORS 67-07 M17-72869
ACOUSTICS AND THIN FILMS 67-08 M17-74722
MICROHARDNESS AND ITS ANISOTROPY IN SINGLE CRYSTALS OF GERMANIUM ALLOYED WITH VARIOUS ADDITIVES 67-08 M17-75445
EFFECT OF LIGHT ON THE NORMAL ELASTIC MODULUS OF GERMANIUM AND SILICON 67-09 M17-77065
EFFECT OF PRESSURE ON THE ELASTIC PARAMETERS AND STRUCTURE OF CDS 67-09 M17-77172
ELASTIC MODULI OF GAAS AT MODERATE PRESSURES AND THE EVALUATION OF COMPRESSION TO 250 KBAR 67-09 M17-77454
THE PROPERTIES OF THE LOW-TEMPERATURE INTERNAL FRICTION PEAK IN SILICON 67-10 M17-79023
MECHANICAL PROPERTIES OF HYPOEUTECTIC SILUMIN OF SEMICONDUCTOR PURITY 67-10 M17-79040
THIRD-ORDER ELASTIC MODULI OF GALLIUM ARSENIDE 67-10 M17-79163
PREPARATION OF GALLIUM SELENIDE MONOCRYSTAL AND DETERMINATION OF ITS ELASTIC CONSTANTS 67-10 M17-79247
MEASURING THE HIGH-TEMPERATURE MICROHARDNESS OF SEMICONDUCTORS 67-12 M17-82177
THE ELASTIC CONSTANTS OF MERCURY TELLURIDE 67-12 M17-82288
ELECTRONIC EFFECTS IN THE ELASTIC CONSTANTS OF N-TYPE SILICON 67-12 M17-82532

SEMICONDUCTORS, METALLOGRAPHY
ENHANCED GAAS ETCH RATES NEAR THE EDGES OF A PROTECTIVE MASK 67-02 M13-61772
THE ETCHING OF BI--2-Y--SBYTEXSE--3-X-- 67-03 M13-65905
PRODUCTION OF CARBON REPLICAS OF TRANSVERSE SECTIONS OF GERMANIUM FILMS 67-05 M13-69628
A METHOD OF MAKING OXIDE REPLICAS FOR STUDYING THE STRUCTURE OF ALLOYS OF THE ZR-NB SYSTEM 67-05 M13-69630
OBSERVATION OF ETCHING OF N-TYPE SILICON IN AQUEOUS HF SOLUTIONS 67-06 M16-72182
METALLOGRAPHY OF SILICON SINGLE CRYSTALS 67-08 M13-74941

SEMICONDUCTORS, MICROSTRUCTURE
STACKING FAULTS IN STEAM-OXIDIZED SILICON 67-02 M13-58946
TEXTURE AND ELECTRICAL CONDUCTIVITY OF CADMIUM SULFIDE FILMS 67-02 M15-61658
VACUUM THERMAL ETCHING OF GERMANIUM AND SILICON SURFACES 67-06 M13-72175
THE METALLIC ETCHING OF INDIUM ANTIMONIDE AND GERMANIUM 67-09 M13-76631

SEMICONDUCTORS, NUCLEAR PROPERTIES
ULTRASONIC RELAXATION AT THE NEEL TEMPERATURE AND

SEMICONDUCTORS

NUCLEAR ACOUSTIC RESONANCE IN MNTE
67-09 M16-76373
SEMICONDUCTORS, OPTICAL PROPERTIES
ANOMALOUS POLARITY-DEPENDENT ELECTRO-OPTIC EFFECT IN CUBIC ZNS AND ZNTE 67-02 M15-60686
LANDAU LEVELS AND MAGNETO-ABSORPTION IN INSB
67-03 M16-65033
PHOTOLUMINESCENCE OF EPITAXIAL N-TYPE GAAS AT 20 K
67-03 M16-65747
PHOTOLUMINESCENCE OF CU-DOPED GALLIUM ARSENIDE
67-03 M16-65889
FAR INFRARED LATTICE BANDS IN INDIUM ANTIMONIDE
67-04 M16-66743
HIGH FIELD MAGNETO-OPTICAL STUDIES OF CD3AS2
67-04 M16-66751
THE EFFECTS OF BAND-POPULATION ON INTER-BAND MAGNETO-OPTICAL PHENOMENA 67-04 M16-66753
MAGNETO-OPTICAL STUDY OF HYDROGENIC DONOR IMPURITY STATES IN INSB 67-04 M16-66758
EDGE ABSORPTION AND PHOTOLUMINESCENCE IN DISORDERED GALLIUM ARSENIDE 67-04 M16-66760
IMPURITY-SENSITIVE INFRARED ABSORPTION IN N-TYPE ALPHA-SIC 67-04 M16-67474
X-RAY DIFFRACTION AND OPTICAL OBSERVATIONS ON CRYSTALLINE SOLIDS UP TO 300 KBAR
67-05 M13-68652
OPTICAL REFLECTION OF GALLIUM PHOSPHIDE, GALLIUM ARSENIDE, AND THEIR SOLID SOLUTIONS
67-05 M16-69382
FREE CARRIER OPTICAL CONSTANTS OF SNTE
67-06 M16-70469
ENERGY AND KINETIC PARAMETERS OF NITROGEN IMPURITY IN SILICON CARBIDE CRYSTALS 67-06 M16-71769
THE INFRARED FARADAY EFFECT IN P-TYPE SEMICONDUCTORS 67-06 M16-72088
EXTRINSIC PHOTOCONDUCTIVITY IN GE CAUSED BY DISLOCATIONS 67-07 M16-72954
OPTICAL PROPERTIES OF ZINC TELLURIDE
67-08 M15-74668
INFRARED LATTICE REFLECTION SPECTRA OF 2-6 COMPOUNDS 67-08 M15-75937
OPTICAL PROPERTIES OF ZINC TELLURIDE IN THE INFRARED 67-08 M15-76168
ABSORPTION OF INFRARED RADIATION BY FREE CARRIERS IN N-GAAS 67-10 M15-79447
A PSEUDOPOTENTIAL EXAMINATION OF THE PRESSURE COEFFICIENTS OF OPTICAL TRANSITIONS IN SEMICONDUCTORS 67-11 M15-81673
ELECTRONIC SPECTRUM OF CRYSTALLINE LITHIUM FLUORIDE
67-11 M15-81680
KINETICS OF OPTICAL CHARGE EXCHANGE IN COPPER-DOPED CADMIUM SULPHIDE SINGLE CRYSTALS
67-11 M15-81687
ELECTROREFLECTANCE MEASUREMENTS ON GAXIN1-XAS ALLOYS 67-11 M16-80326
PHOTOCONDUCTIVITY OF CHROMIUM-DOPED GALLIUM ARSENIDE 67-12 M15-82363
SEMICONDUCTORS, PHASE DIAGRAMS
GOLD SILICON PHASE DIAGRAM 67-08 M13-76083
SEMICONDUCTORS, PHASE TRANSFORMATIONS
INDIUM SELENIDE IN2SE3 67-01 M14-57646
SOME CROSS-SUBSTITUTIONAL ALLOYS OF CDTE
67-02 M16-61765
INVESTIGATION OF THE PHASE TRANSITION AND THE STRUCTURE OF ALPHA-GETE 67-09 M14-76771
PHASE TRANSFORMATION OF AS2SE3 AND SB2SE3 FILMS
67-12 M14-83269
SEMICONDUCTORS, PHASES /STATE OF MATTER/
P-T-X PHASE DIAGRAM OF THE LEAD TELLURIDE SYSTEM
67-06 M15-72046
UNIDIRECTIONALLY SOLIDIFIED EUTECTICS FOR OPTICAL, ELECTRONIC, AND MAGNETIC APPLICATIONS
67-09 M14-76722
THE SYSTEM GE-SE-TE AND THE PREPARATION AND PROPERTIES OF THE NEW NON-STOICHIOMETRIC COMPOUND GESE0.75TE0.25 67-09 M14-77015
STRUCTURE OF SEMICONDUCTING COMPOUNDS OF ARSENIC AND ANTIMONY WITH GROUP-8 ELEMENTS
67-11 M13-80177
CONNECTION BETWEEN THE SHAPE OF THE PHASE DIAGRAM AND THAT OF THE SURFACE TENSION AND ADSORPTION ISOTHERMS IN BINARY SYSTEMS OF METALS AND SEMICONDUCTORS 67-11 M14-80165
RETROGRADE SOLUBILITY OF LEAD IN N-TYPE PBS
67-12 M15-82853
THE THERMODYNAMIC PROPERTIES OF SEVERAL SOLID PHASES OF THE COMPOUND, INSB 67-12 M15-82973
SEMICONDUCTORS, PHOTOCONDUCTIVITY
PHOTOCONDUCTIVITY OF ANTIMONY-DOPED GERMANIUM IN THE FAR-INFRARED REGION 67-09 M16-76371
SEMICONDUCTORS, PHOTOELECTRIC EFFECTS
EXTRINSIC PHOTOCONDUCTIVITY OF GERMANIUM DOPED WITH ANTIMONY, ARSENIC, BORON, OR INDIUM
67-10 M15-79451
SELECTIVE INSB PHOTOCELL WITH CONTROLLABLE SPECTRAL CHARACTERISTICS 67-10 M16-79455
SEMICONDUCTORS, PHYSICAL PROPERTIES
X-RAY KAPPA ABSORPTION SPECTRA OF TITANIUM, VANADIUM AND GERMANIUM IN GERMANIDES
67-02 M15-62184
CYCLOTRON ABSORPTION IN N-TYPE LEAD TELLURIDE
67-02 M16-59473
THE PREPARATION AND PROPERTIES OF ZNSIAS2, ZNGEP2 AND CDGFP2 SEMICONDUCTING COMPOUNDS
67-02 M16-59744
THE INFLUENCE OF EXCESS NONSTOICHIOMETRIC BI ON THE THERMAL CONDUCTIVITY OF CRYSTAL LATTICES OF BI2TE3, BI2TE3-SB2-TE3 AND BI2TE3-BI2S3 WITH IODINE ADDITIONS 67-03 M15-65383
THERMAL AND OPTICAL ENERGY GAPS IN PBTE
67-03 M16-65884
CESIUM-ANTIMONY FILMS IN EQUILIBRIUM WITH CESIUM VAPOR 67-03 M16-65891
ELECTRIC AND MAGNETIC PROPERTIES OF VO
67-04 M15-67486
TRANSIENT MAGNETORESISTANCE OF PHOTOELECTRONS IN CADMIUM SULFIDE 67-04 M16-67472
CHANGE IN THE ELECTRO- AND THERMOPHYSICAL PROPERTIES IN PSEUDOBINARY ALLOYS ZRCO.92-ZRNO.85 OF THE ZIRCONIUM-NITROGEN-CARBON SYSTEM
67-05 M15-68711
INVESTIGATION OF THE CR-SI SYSTEM IN THE DISILICIDE REGION 67-05 M16-68708
FREE CARRIER ELECTRO-OPTICAL KERR EFFECT IN SEMICONDUCTORS 67-05 M16-69794
REFLECTANCE AND SURFACE CONDUCTIVITY OF ZINC OXIDE CRYSTALS 67-06 M16-70087
ANNEALING OF IMPURITY RECOMBINATION BANDS IN SILICON IRRADIATED BY GAMMA RAYS
67-06 M16-71758
AVERAGE HEATS OF ATOMIZATION AND THE IV-VI COMPOUND SEMICONDUCTORS 67-07 M15-73182
MILLIMETER WAVE RADIATION FROM INDIUM ANTIMONIDE
67-07 M16-73999
METALLURGY AND PHYSICAL PROPERTIES OF MERCURY-DOPED GERMANIUM RELATED TO THE PERFORMANCES OF THE INFRARED DETECTOR 67-08 M16-74599
THE PHYSICAL AND ELECTRONIC PROPERTIES OF SEMICONDUCTING SOLID SOLUTIONS OF THE CD3AS2-ZN3AS2 SYSTEM 67-09 M15-78254
STUDY OF THE ELECTRICAL CONDUCTIVITY OF CDSNAS2 IN THE SOLID AND LIQUID STATES 67-10 M15-79831
DISSOCIATION PRESSURE OF INDIUM ARSENIDE, GALLIUM ARSENIDE, AND GALLIUM PHOSPHIDE
67-11 M15-80161
CHANGE IN THE CHARACTER OF THE CHEMICAL BOND ON MELTING COMPOUNDS WITH THE NACL AND CAF2 TYPE OF LATTICE 67-11 M15-80163
ANISOTROPY OF SURFACE TENSION IN METAL-SEMICONDUCTOR SYSTEMS 67-11 M15-80167
PHOTOMECHANICAL EFFECT AND ANOMALIES IN THE PROPERTIES OF CERTAIN ELEMENTS
67-11 M15-80168
ELECTRICAL AND OPTICAL PROPERTIES OF SEMICONDUCTING COMPOUNDS OF THE A2VB3VI TYPE AND THE CHEMICAL BOND 67-11 M15-80169
SEMICONDUCTING A2B4C25 COMPOUNDS
67-11 M15-80601
MICROWAVE EMISSION FROM CDS 67-11 M15-80818
CONTINUOUS AMPLIFICATION OF ULTRASOUND IN CADMIUM SELENIDE 67-11 M15-81054
CERTAIN QUESTIONS REGARDING THE CHEMICAL BOND IN SEMICONDUCTORS 67-11 M16-80153
THE CHEMICAL BOND IN BISMUTH TELLURIDE
67-11 M16-80175
INVESTIGATION OF THE CR-SI SYSTEM IN THE DISILICIDE REGION 67-12 M16-82684
PREPARATION, STRUCTURE AND PHOTOELECTRIC PROPERTIES OF CDS, CDS-CDSE AND CDSE SINGLE-CRYSTAL FILMS
67-12 M16-83356
SEMICONDUCTORS, RADIATION COUNTERS
POSSIBLE USE OF CADMIUM TELLURIDE FOR N-P GAMMA-RAY DETECTORS 67-05 M16-68400
SEMICONDUCTORS, RADIATION EFFECTS
AN ANALYSIS OF NON-UNIFORM PROTON IRRADIATION DAMAGE IN SILICON SOLAR CELLS
67-01 M16-57556
MOBILITY OF POINT DEFECTS IN GERMANIUM

67-04 M14-67307
SEMICONDUCTOR LASERS USING OPTICAL PUMPING
67-04 M16-66759
ELECTRON RADIATION DAMAGE IN SEMICONDUCTORS AND METALS 67-04 M16-67299
RADIATION EFFECTS IN SEMICONDUCTORS
67-04 M16-67306
THE AMORPHISM IN POLYCRYSTALLINE GERMANIUM FILMS RESULTING FROM IRRADIATION WITH ARGON IONS
67-09 M16-76772
EVIDENCE FOR DAMAGE REGIONS IN SI, GAAS, AND INSB SEMICONDUCTORS BOMBARDED WITH HIGH-ENERGY NEUTRONS 67-10 M16-79168
THRESHOLD ENERGY FOR ATOMIC DISPLACEMENT IN CADMIUM TELLURIDE 67-11 M16-80617

SEMICONDUCTORS, REACTIONS /CHEMICAL/
KINETICS OF COMPLEX DEFECT ANNEALING IN SILICON
67-01 M16-57953
SCHOTTKY EMISSION AS A RATE-LIMITING FACTOR IN THERMAL OXIDATION OF METALS 67-03 M14-65025
GERMANIUM OXIDATION IN NITRIC ACID
67-05 M14-68625
CHEMICAL ETCHING OF GERMANIUM IN THE SYSTEM HF-H2O2-H2O 67-06 M14-70666
LOW-TEMPERATURE PHOTO-CHEMICAL REACTIONS IN IN4S5 SINGLE CRYSTALS 67-06 M14-71756
GALLIUM ARSENIDE ELECTRODE BEHAVIOR
67-07 M14-73455
ETCHING OF GERMANIUM WITH IODIDE VAPOR IN AN ELECTRIC FIELD 67-09 M14-76769

SEMICONDUCTORS, REACTIONS /NUCLEAR/
RADIATIVE DECAY IN COMPOUND SEMICONDUCTORS
67-08 M16-76082

SEMICONDUCTORS, REFINING
ON THE INTERRELATIONSHIP OF SEMICONDUCTOR PROPERTIES OF ZINC BLENDE WITH ITS FLOTATION BEHAVIOR 67-05 M16-68954
RECRYSTALLIZATION OF GERMANIUM THIN FILMS ON INSULATING SUBSTRATES BY ELECTRON BEAM ZONE MELTING 67-06 M16-72178
ZONE MELTING OF LEAD TELLURIDE 67-09 M14-76849
LIQUID ENCAPSULATION ZONE REFINING --LEZOR--
67-12 M03-82461
ON THE CONCENTRATION DEPENDENCE OF THE DISTRIBUTION COEFFICIENTS DURING DIRECTIONAL CRYSTALLISATION
67-12 M13-82148

SEMICONDUCTORS, RESISTIVITY
CONTACTLESS MEASUREMENT OF RESISTIVITY OF SLICES OF SEMICONDUCTOR MATERIALS 67-06 M16-70551

SEMICONDUCTORS, SINGLE CRYSTALS
EPITAXIAL FILMS OF PBTE, PBSE AND PBS GROWN ON MICA SUBSTRATES 67-10 M15-79337
ANISOTROPIC SHIFT IN THE NUCLEAR MAGNETIC RESONANCE LINE IN TELLURIUM SINGLE CRYSTALS
67-11 M16-81682

SEMICONDUCTORS, SOLUBILITY
CALCULATING THE MAXIMUM CONCENTRATION OF GERMANIUM AND SILICON SOLID SOLUTIONS ON A SOLIDUS CURVE
67-03 M14-65588

SEMICONDUCTORS, SPECTROSCOPY
EMISSION MICROSPECTROSCOPY USED FOR ANALYZING ALLOYS FOR SEMICONDUCTOR DEVICES
67-09 M19-76578

SEMICONDUCTORS, SUPERCONDUCTIVITY
OBSERVATION OF THE SUPERCONDUCTING ENERGY GAP IN A SEMICONDUCTOR --GETE-- 67-01 M16-58638
CRITICAL MAGNETIC FIELDS OF SUPERCONDUCTING SNTE
67-03 M16-65142
SUPERCONDUCTING INDIUM ANTIMONIDE
67-03 M16-65146
SUPERCONDUCTING PROPERTIES OF GERMANIUM TELLURIDE
67-04 M16-66792

SEMICONDUCTORS, SURFACE FINISHING
THE SIMULTANEOUS ELECTROPOLISHING OF BOTH FACES OF GERMANIUM SLICES 67-05 M12-68778

SEMICONDUCTORS, SURFACE PROPERTIES
SURFACE STATES ON CLEAN SILICON
67-03 M16-65914
TEMPERATURE EFFECT OF CONDUCTIVITY OF TELLURIUM FILMS IN A MODULATING ELECTRIC FIELD
67-04 M16-66181
SURFACE STATES ON THE --0001-- FACES OF CADMIUM SULPHIDE CRYSTALS 67-04 M16-67739
INFLUENCE OF MAGNETIC FIELD ON SURFACE FIELD-EFFECT IN GERMANIUM 67-08 M15-75079
USE OF THE SCRATCH METHOD FOR STUDYING ANISOTROPY IN THE PROPERTIES OF CERTAIN CRYSTALS WITH BONDS OF A PREDOMINANTLY COVALENT CHARACTER
67-11 M15-80171
ELECTRICAL PROPERTIES OF SEMICONDUCTOR SURFACES
67-12 M15-83227

SEMICONDUCTORS, SYNTHESIS
THE SYNTHESIS OF LEAD TELLURIDE WITH THE AID OF CHEMICAL REACTIONS 67-04 M16-66031
PREPARATION OF INSB-INAS SOLID SOLUTIONS IN THE FORM OF POLYCRYSTALLINE INGOTS
67-12 M16-83322

SEMICONDUCTORS, TERNARY SYSTEMS
STUDY OF THE AISB-GASB-INSB SYSTEM
67-08 M14-75080
THE STRUCTURE OF SEMICONDUCTOR AG2TE-GA2TE3 ALLOYS
67-12 M13-82493

SEMICONDUCTORS, THERMAL PROPERTIES
ANOMALOUS THERMAL CONDUCTIVITY OF CD3AS2 AND THE CD3AS2-ZN3AS2 ALLOYS 67-01 M15-57118
AMORPHOUS SELENIUM THERMAL CONDUCTIVITY STUDY IN SOFTENING REGION 67-01 M15-58641
ON HEAT CONDUCTIVITY AND THERMOELECTROMOTIVE FORCE OF HEXAGONAL SELENIUM SINGLE CRYSTALS
67-01 M16-58642
DIFFUSED SEMICONDUCTOR LOW TEMPERATURE THERMOMETERS
67-01 M19-57225
HEAT CONDUCTIVITY STUDY OF GASE MONOCRYSTALS
67-03 M15-65230
ULTRASONIC ATTENUATION IN CADMIUM SULFIDE FROM 1.8 TO 300 K 67-03 M15-65868
HIGH-TEMPERATURE SPECIFIC HEAT OF GERMANIUM
67-03 M15-65885
ANHARMONIC CONTRIBUTIONS TO THE HEAT CAPACITIES OF SILICON AND GERMANIUM 67-03 M16-65035
HEATS OF ADSORPTION OF CARBON DIOXIDE ON DOPED ZINC OXIDE 67-05 M15-69598
THERMAL CONDUCTIVITY OF SILICON, GERMANIUM, 3-5 COMPOUNDS AND 3-5 ALLOYS 67-05 M15-69600
ON HEAT CONDUCTIVITY OF A3B6-TYPE SEMICONDUCTORS
67-05 M15-69791
NEW DATA ON THE INFLUENCE OF CHARGED AND NEUTRAL IMPURITIES ON THE THERMAL CONDUCTIVITY OF THE CRYSTAL LATTICE OF BI2TE3 67-05 M16-69385
MEASUREMENT OF THE LINEAR EXPANSION COEFFICIENTS OF HEXAGONAL ZINC SULFIDE IN THE TEMPERATURE RANGE 78-290 K 67-05 M16-69400
LOW-TEMPERATURE THERMAL CONDUCTIVITY OF FAST-NEUTRON-IRRADIATED SILICON AND GERMANIUM
67-07 M15-72626
PHOTO AND THERMAL EFFECTS IN COMPENSATED ZINC-DOPED GERMANIUM 67-10 M15-79164
THERMAL-EXPANSION COEFFICIENTS OF SELENIUM AND GALLIUM SELENIDE FROM X-RAY STRUCTURAL ANALYSIS DATA IN ASSOCIATION WITH THE CHEMICAL BOND
67-11 M13-80176
STUDY OF THE THERMODYNAMIC PROPERTIES OF CERTAIN SEMICONDUCTING ALLOYS BY THE ELECTROMOTIVE-FORCE METHOD 67-11 M15-80159
THERMODYNAMIC PROPERTIES OF INDIUM AND GALLIUM ANTIMONIDES AND GALLIUM ARSENIDE
67-11 M15-80160
DETERMINATION OF THE HEAT OF FORMATION OF INDIUM AND GALLIUM PHOSPHIDES BY COMBUSTION IN A CALORIMETER BOMB 67-11 M15-80162
THERMAL EXPANSION OF SEMICONDUCTING ELEMENTS AND COMPOUNDS AT LOW TEMPERATURES
67-11 M15-80170
AN ATTEMPT TO DETERMINE EXPERIMENTALLY THE PHASE VELOCITY OF A HEAT WAVE IN SEMICONDUCTING BISMUTH TELLURIDE AT ROOM TEMPERATURE
67-11 M15-80508
EFFECTS OF ELECTRON IRRADIATION ON THE THERMAL CONDUCTIVITY OF N-AND P-TYPE GERMANIUM
67-11 M16-81485

SEMICONDUCTORS, THERMODYNAMICS
THERMAL STUDY OF GROUP 2-4 SEMICONDUCTORS. PT. 2. HEAT CAPACITY OF MG2SN IN THE RANGE 5 TO 300 K
67-05 M15-68281
THE THERMODYNAMICS OF THE PHONON DRAG IN IONIC SEMICONDUCTORS 67-11 M15-80939

SEMICONDUCTORS, THIN FILMS
VAPOR GROWTH OF SIO2 AND TIO2 FILMS
67-01 M15-58313
PREPARATION AND PROPERTIES OF VACUUM DEPOSITED CDS AND CDSE FILMS 67-02 M16-61121
IMPURITY DISTRIBUTION IN EPITAXIAL FILMS AFTER OXIDATION 67-03 M14-65771
PREPARATION OF PHOTOSENSITIVE FILMS OF CADMINUM SULFIDE BY VACUUM EVAPORATION
67-08 M12-75182
EFFECT OF HEAT-TREATMENTS IN VACUUM-DEPOSITED CDS/AG AND CDS/LI FILMS 67-11 M14-80820

SEEBECK COEFFICIENT OF THIN-FILM GERMANIUM
67-12 M15-82361

SEMICONDUCTORS, TRANSPORT PROPERTIES
EFFECT OF SUBSTRATE TEMPERATURE ON HALL COEFFICIENT OF THIN FILMS 67-01 M15-57214
THE INTERPRETATION OF THE HALL EFFECT IN ALLOYS OF COPPER AND SILVER WITH GROUP B METALS 67-01 M15-57489
INVESTIGATION OF SOME ELECTRICAL PROPERTIES AND PREPARATION OF ZINC ARSENIDE SINGLE CRYSTALS 67-01 M15-58040
QUANTUM SIZE EFFECT IN THIN BISMUTH FILMS 67-01 M15-58736
OSCILLATORY PHOTOCONDUCTIVITY IN INSB 67-01 M15-58756
SURFACE CONDUCTIVITY ON DEGENERATE GERMANIUM 67-01 M16-57553
ON THE THEORY OF ANISOTROPIC THERMOELECTRIC POWER IN SEMICONDUCTORS 67-01 M16-57563
SIZE EFFECT IN THE THERMOPOWER OF BISMUTH 67-01 M16-57955
THE IMPORTANCE AND RESEARCH PROBLEMS OF SILICON OXIDE 67-01 M16-58311
CONDUCTIVITY, HALL EFFECT, OPTICAL ABSORPTION, AND BAND GAP OF VERY PURE BORON 67-01 M16-58411
SEMICONDUCTOR PROPERTIES OF BORON 67-01 M16-58414
SOME TRANSPORT PROPERTIES OF CONDUCTION ELECTRONS IN N-TYPE CDS 67-02 M15-59470
ELECTRICAL PROPERTIES OF ALPHA-IN2SE3 67-02 M15-59480
MAGNETORESISTANCE OF N-TYPE GERMANIUM IN THE PHONON-ASSISTED HOPPING CONDUCTION RANGE AT HIGH MAGNETIC FIELDS 67-02 M15-60771
HOT CARRIER CONCENTRATION IN NI-TYPE GERMANIUM--A SUGGESTED EXPERIMENT 67-02 M15-60772
THE TEMPERATURE DEPENDENCE OF THE DEFECT ELECTRON MOBILITY IN SILICON CRYSTALS 67-02 M15-61509
PROPERTIES OF EPITAXIAL SILICON FILMS GROWN BY VACUUM EVAPORATION 67-02 M15-61659
HIGH-TEMPERATURE HALL EFFECT IN GASB 67-02 M15-61692
CONDUCTION BAND OF GASB 67-02 M15-61693
ELECTRON TRANSPORT AND THERMOELECTRIC PROPERTIES OF N-TYPE BI1.75SB0.25TE3 67-02 M15-61694
EVALUATION OF TRACE IMPURITIES IN THE PREPARATION OF HIGH-PURITY SILICON CARBIDE 67-02 M16-59451
MODIFICATIONS OF THE DENSITY AND MOBILITY OF MAJOR CARRIERS IN N-TYPE GERMANIUM BOMBARDED BY PROTONS OF 600 MVT 67-02 M16-60171
ELECTRICAL PROPERTIES OF N-TYPE EPITAXIAL GALLIUM ARSENIDE 67-02 M16-61507
STUDY OF GALVANO- AND THERMOMAGNETIC PHENOMENA IN SEMICONDUCTORS BY A NONSTATIONARY METHOD 67-03 M15-65069
A CONTACTLESS METHOD FOR MEASURING SPECIFIC RESISTANCE OF SEMICONDUCTOR PLATES AND EPITAXIAL LAYERS 67-03 M15-65075
ELECTRICAL PROPERTIES OF TELLURIUM DOPED WITH IODINE 67-03 M16-65459
EFFECT OF STRUCTURAL DEFECTS ON SOME ELECTRICAL PROPERTIES OF GERMANIUM DOPED WITH GOLD AND ANTIMONY 67-03 M16-65461
DEPENDENCE OF THE TRANSVERSE HALL EFFECT IN P-TYPE SILICON ON THE MAGNETIC FIELD INTENSITY 67-03 M16-65634
HALL EFFECTS OF VANADIUM DIOXIDE POWDER 67-03 M16-65644
THERMOELECTRIC POWER OF VANADIUM DIOXIDE WHISKERS 67-03 M16-65645
IONIZATION ENERGIES AND THEIR PRESSURE DEPENDENCE OF CU AND AG IN INSB 67-03 M16-65650
SOLID-STATE ELECTRONICS PT. 2. PROPERTIES OF SEMICONDUCTORS 67-03 M16-65669
PROPERTIES OF MERCURY TELLURIDE THIN FILMS 67-03 M16-65735
HALL EFFECT MEASUREMENTS ON AU-CS-O 67-03 M16-65753
ELECTRICAL AND GALVANOMAGNETIC PROPERTIES OF SINGLE CRYSTAL INSB DENDRITES 67-03 M16-65770
THE INFLUENCE OF COPPER IONS ON FAST SURFACE STATES OF GERMANIUM 67-03 M16-65804
FIELD EFFECT MEASUREMENTS ON THE A AND B --111-- SURFACES OF INDIUM ANTIMONIDE 67-03 M16-65805
HIGH ELECTRON MOBILITY OF CUBIC SIC 67-03 M16-65890
PHYSICAL AND ELECTRONIC PROPERTIES OF CD3AS2-ZNSNAS2 ALLOYS 67-04 M15-67578
IONIZATION ENERGY AND IMPURITY BAND CONDUCTION OF SHALLOW DONORS IN N-GALLIUM ARSENIDE 67-04 M16-66510
GALVANOMAGNETIC PROPERTIES OF SURFACE LAYERS IN INDIUM ARSENIDE 67-04 M16-66764
GALVANOMAGNETIC EFFECTS AND BAND STRUCTURE OF CDSB 67-04 M16-66765
THE STRUCTURE OF THE CONDUCTION BAND AND THE ANISOTROPY OF THE ELECTRON SCATTERING IN N-GAAS 67-04 M16-66766
LOW TEMPERATURE TRANSPORT EFFECTS IN N-TYPE GASB AT HIGH MAGNETIC FIELDS 67-04 M16-66767
MAGNETORESISTANCE STUDIES OF HGTE AT LOW TEMPERATURES 67-04 M16-66769
THE FERMI SURFACE OF TIN TELLURIDE--SHUBNIKOV-DE HAAS EFFECT 67-04 M16-66771
NONLINEAR GALVANOMAGNETIC EFFECTS DUE TO HOT ELECTRONS IN N-TYPE INSB IN THE QUANTUM LIMIT 67-04 M16-66772
HIGH FIELD EFFECTS IN N-TYPE INSB 67-04 M16-66774
MECHANISM OF THE GUNN EFFECT 67-04 M16-66780
NEGATIVE MAGNETORESISTANCE IN THE METALLIC IMPURITY CONDUCTION 67-04 M16-66783
AN EXPERIMENTAL INVESTIGATION OF THE HALL EFFECT IN THE HOPPING REGION 67-04 M16-66784
MAGNETORESISTANCE OF HEAVILY DOPED N-TYPE SILICON 67-04 M16-66785
TRANSPORT PROPERTIES AND LOCALIZED SPINS IN N-TYPE INSB 67-04 M16-66786
THE EFFECT OF HYDROSTATIC PRESSURE ON THE TRANSPORT PROPERTIES OF INSB 67-04 M16-67028
ON THE ELECTRICAL PROPERTIES OF THE ZNGEAS2 SEMICONDUCTOR COMPOUND 67-04 M16-67107
HIGH FREQUENCY PROPERTIES OF INSB UNDER A MAGNETIC FIELD 67-04 M16-67425
GALVANOMAGNETIC EFFECTS IN CADMIUM ANTIMONIDE 67-04 M16-67470
VARIATION OF DRIFT VELOCITY WITH FIELD IN GAAS 67-04 M16-68074
THE EFFECT OF VARIATIONS IN THE CONCENTRATION OF ATMOSPHERIC CONSTITUENTS ON THE ELECTRICAL CONDUCTIVITY OF ZINC OXIDE 67-05 M15-68276
PHOTOCONDUCTION AND TRAPPING IN SPUTTERED TANTALUM OXIDE FILMS 67-05 M15-68283
GALVANOMAGNETIC STUDIES OF SN-DOPED BI. PT. 1. POSITIVE FERMI ENERGIES 67-05 M15-69815
SURFACE PROPERTIES OF 2-6 COMPOUNDS 67-05 M15-69818
RESISTANCE ANOMALY AND NEGATIVE MAGNETORESISTANCE IN N-TYPE INSB AT VERY LOW TEMPERATURES 67-05 M15-69820
PREPARATION OF CDS AND CD --S, SE-- EVAPORATED LAYERS AND THEIR PHOTOELECTRIC PROPERTIES 67-05 M15-69881
AN AUTOMATIC TECHNIQUE FOR ACCURATE MEASUREMENTS OF SEEBECK COEFFICIENT 67-05 M16-68654
HIGH TEMPERATURE HALL EFFECT IN CUPROUS OXIDE 67-05 M16-69091
DIFFUSION AND ELECTRICAL TRANSPORT OF ZINC IN INDIUM ARSENIDE 67-05 M16-69383
TEMPERATURE DEPENDENCE OF THE HALL COEFFICIENT IN P-PBTE 67-05 M16-69397
TEMPERATURE DEPENDENCE OF THE HALL COEFFICIENT IN N-PBTE 67-05 M16-69398
BEHAVIOR OF PHOSPHORUS IN CADMIUM TELLURIDE 67-05 M16-69399
SOME ELECTRICAL PROPERTIES OF THE SEMI-CONDUCTOR BETA-GA2O3 67-05 M16-69574
EFFECT OF TEMPERATURE ON THE HALL COEFFICIENT OF INDIUM AND INDIUM-RICH SOLID SOLUTIONS 67-05 M16-69753
INVESTIGATION OF THE NONPARABOLICITY OF THE CONDUCTION BAND OF PBTE BY THE METHOD OF MEASURING THE THERMOELECTRIC POWER IN A STRONG MAGNETIC FIELD 67-06 M15-70511
INFLUENCE OF AN ELECTRIC FIELD ON THE CAPTURE AND SCATTERING OF HOLES IN BORON-DOPED SILICON 67-06 M15-70515
USE OF THE NERNST-ETTINGS-HAUSEN THERMOMAGNETIC EFFECTS AS INDICATORS FOR THE SCATTERING MECHANISM 67-06 M15-70516
INFLUENCE OF MIXED CONDUCTION ON THE TEMPERATURE DEPENDENCE OF THE TRANSPORT COEFFICIENTS OF SEMICONDUCTORS 67-06 M15-70517
THERMOMAGNETIC EFFECTS IN DEFORMED N-TYPE GE 67-06 M15-70521

INFRARED QUENCHING OF THE IMPURITY PHOTOCONDUCTIVITY IN CADMIUM SULFIDE 67-06 M15-70522
LUX-AMPERE CHARACTERISTICS OF THE ANOMALOUS PHOTOCONDUCTIVITY OF AMORPHOUS SELENIUM UNDER CONTINUOUS ELLUMINATION 67-06 M15-70523
CONCERNING NEGATIVE PHOTOCONDUCTIVITY IN GERMANIUM 67-06 M15-70527
HALL EFFECT VOLTAGE REVERSAL IN SHOCK-LOADED P-TYPE --100-- GERMANIUM 67-06 M16-70086
GALVANOMAGNETIC AND THERMOMAGNETIC EFFECTS IN STRAINED N-GE 67-06 M16-70504
ELASTOGALVANOMAGNETIC EFFECTS IN N-TYPE GE 67-06 M16-70505
STUDY OF THE EMISSION PROPERTIES OF GERMANIUM ON VARIOUS FACES OF A TUNGSTEN SINGLE CRYSTAL 67-06 M16-70506
RECOMBINATION IN HIGH-RESISTIVITY SILICON 67-06 M16-70525
HALL EFFECT IN SEMICONDUCTORS WITH TWO TYPES OF CARRIER 67-06 M16-70868
NEGATIVE LONGITUDINAL MAGNETORESISTANCE OF N-TYPE INAS 67-06 M16-70874
CONDUCTIVITY AND FIELD EFFECT OF PURE SILICON CLEAVAGE SURFACES 67-06 M16-70993
TEST OF THE READ MODEL CONCERNING THE ELECTRON MOBILITY IN PLASTICALLY DEFORMED N-TYPE GE 67-06 M16-71000
ANNEALING EFFECTS OF LI-SATURATED P-TYPE INSB 67-06 M16-71551
DEPENDENCE OF CARRIER MOBILITY ON TEMPERATURE IN GAAS CRYSTALS IRRADIATED BY FAST ELECTRONS 67-06 M16-71762
LIFETIME OF MINORITY CARRIERS IN MERCURY-DOPED GERMANIUM 67-06 M16-71764
MOBILITY OF MINORITY CARRIES IN DEGENERATE GALLIUM ARSENIDE 67-06 M16-71772
ELECTRICAL PROPERTIES OF HEAVILY DOPED P-TYPE GERMANIUM CONTAINING BERYLLIUM 67-06 M16-71773
LIFETIME OF MINORITY CARRIERS IN GERMANIUM DOPED WITH MERCURY 67-06 M16-71915
MECHANISM OF SCATTERING OF ELECTRONS IN IN2O3 FILMS 67-06 M16-71923
ELECTRIC PROPERTIES OF P-TYPE GERMANIUM STRONGLY DOPED WITH BERYLLIUM 67-06 M16-71924
INFLUENCE OF UNIAXIAL COMPRESSION ON THE JUMP CONDUCTIVITY IN P-SI 67-06 M16-71925
MOBILITY OF MINORITY CARRIERS IN DEGENERATE GALLIUM ARSENIDE 67-06 M16-71926
OHMIC CONTACTS TO GAAS BY A SIMPLE LOW TEMPERATURE ALLOYING PROCESS 67-06 M16-72179
PHOTORESPONSE STUDIES OF VAPOR-DEPOSITED MO-SI SYSTEMS 67-07 M15-72631
PHOTOCONDUCTIVE AND PHOTO-HALL MEASUREMENTS ON HIGH-RESISTIVITY GAP 67-07 M15-72632
RELATIONS BETWEEN ELECTRICAL NOISE AND DISLOCATIONS IN SILICON 67-07 M15-72633
ELECTRICAL PROPERTIES OF BETA-AG2TE AND BETA-AG2SE FROM 4.2 TO 300 K 67-07 M15-72648
PHOTOELECTRIC MEASUREMENT OF TUNGSTEN SILICIDE AND N-TYPE SILICON BARRIERS 67-07 M15-72661
NEGATIVE PHOTOCONDUCTIVITY IN GOLD-DOPED SILICON 67-07 M15-72662
CONTACTLESS METHOD FOR MEASURING THE SPECIFIC RESISTANCE OF SEMICONDUCTOR PLATES AND EPITAXIAL LAYERS 67-07 M15-72966
INVESTIGATION OF GALVANIC AND THERMOMAGNETIC PHENOMENA IN SEMICONDUCTORS BY A TRANSIENT METHOD 67-07 M15-72968
PROPERTIES OF GALLIUM ARSENIDE CRYSTALS PRODUCED BY LIQUID ENCAPSULATION PULLING 67-07 M16-72920
HOT-CARRIER D-C CONDUCTION IN ELEMENTAL SEMICONDUCTORS 67-07 M16-73181
HALL EFFECT AND THERMOELECTRIC POWER IN SEMICONDUCTIVE TIO2 67-07 M16-73320
INTERNAL DEFECT PHENOMENA IN TE 67-07 M16-73833
HALL MOBILITY ANNEALING IN ELECTRON IRRADIATED GERMANIUM 67-07 M16-73883
SURFACE TRANSPORT PHENOMENA IN PBS% EPITAXIAL FILMS 67-07 M16-73944
EFFECTS OF HIGH PRESSURE, UNIAXIAL STRESS AND TEMPERATURE ON THE ELECTRICAL RESISTIVITY OF N-GAAS 67-07 M16-73945
SEMICONDUCTOR-TO METAL TRANSITIONS IN TRANSITION-METAL COMPOUNDS 67-07 M16-73947
HIGH FREQUENCY CONDUCTIVITY OF VO2 67-07 M16-73994
SOME KEY FEATURES OF 3-V COMPOUNDS 67-07 M16-74202
INTERPRETATION OF THE HALL COEFFICIENT, ELECTRICAL RESISTIVITY AND SEEBECK COEFFICIENT OF P-TYPE LEAD TELLURIDE 67-08 M15-74388
RECOMBINATION CENTERS IN INSB 67-08 M15-75119
THIN FILM SEMICONDUCTORS 67-08 M15-75159
ELECTRONIC PROCESS IN GAMMA IRON TELLURIDE 67-08 M15-75919
MICROWAVE MEASUREMENT OF DIFFERENTIAL NEGATIVE CONDUCTIVITY DUE TO INTERVALLEY TRANSFER OF HOT ELECTRONS IN N-TYPE GAAS 67-08 M16-74470
EFFECT OF STRESS ON GERMANIUM AND SILICON P-N JUNCTIONS 67-08 M16-74605
ELECTROLUMINESCENCE AND CRYSTALLOGRAPHIC POLARITY OF GALLIUM ANTIMONIDE 67-08 M16-74609
UNIT-CUBE EXPRESSION FOR SPACE-CHARGE RESISTANCE 67-08 M16-75708
THERMOSTIMULATED CURRENTS IN P-TYPE CADMIUM TELLURIDE SINGLE CRYSTALS 67-09 M15-76738
INFLUENCE OF HYDROSTATIC PRESSURE ON THE ELECTRIC PROPERTIES OF SINGLE CRYSTALS OF THE SOLID SOLUTION 0.85PBTE PLUS 0.15PBS 67-09 M15-76774
INFLUENCE OF HYDROSTATIC COMPRESSION AND OF THE TEMPERATURE ON THE CHARACTERISTICS OF P-N TUNNEL JUNCTIONS IN GAAS 67-09 M15-76776
HALL EFFECT OF N-TYPE GAAS IN HIGH ELECTRIC FIELDS 67-09 M15-77175
MICROWAVE EMISSION FROM N-TYPE INDIUM ANTIMONIDE AT 4.2 AND 77 K 67-09 M16-77010
ANOMALOUSLY HIGH-MOBILITY PBTE 67-09 M16-77016
PREPARATION AND PROPERTIES OF EPITAXIAL INAS 67-09 M16-78061
GAAS-INSB GRADED-GAP HETEROJUNCTION 67-09 M16-78062
CONDUCTIVITY MEASUREMENTS ON PBSE SINGLE CRYSTALS WITH NATURAL P-N JUNCTION 67-10 M15-78446
MEASUREMENTS OF CONDUCTIVITY AND PERMITTIVITY OF SEMICONDUCTORS AT MICROWAVE FREQUENCIES 67-10 M15-78724
THE THERMOELECTRIC EFFICIENCY OF CDSB AND SOLID SOLUTIONS OF ZNXCB1-XSB WITH HOLE CONDUCTIVITY 67-10 M15-79107
OBTAINING A FALLING VOLTAGE-CURRENT CHARACTERISTIC IN SEMICONDUCTORS IN CROSSED ELECTRIC AND MAGNETIC FIELDS BY SHORT CIRCUITING THE TRANSVERSE HALL FIELD 67-10 M15-79465
ELECTRICAL AND TRANSPORT PROPERTIES OF CU IN INAS 67-10 M15-79968
STUDY OF BARIUM ADSORPTION ON GERMANIUM BY FIELD-EMISSION MICROSCOPY 67-10 M16-79021
TEMPERATURE DEPENDENCE OF PHOTOLUMINESCENCE IN CADMIUM-DOPED EPITAXIAL GAAS 67-10 M16-79161
INTERBAND CARRIER TRANSFER IN GAAS AT HIGH PRESSURES 67-10 M16-79360
MICROWAVE FARADAY ROTATION IN SEMICONDUCTOR PLASMAS IN THE HIGH MAGNETIC FIELD LIMIT 67-10 M16-79365
NOISE IN CU-GAAS 67-10 M16-79367
HELICON OSCILLATIONS IN HGSE 67-10 M16-79368
FREQUENCY SPECTRUM OF ACOUSTIC WAVES GENERATED IN PHOTOCONDUCTING CDS IN HIGH ELECTRIC FIELDS 67-10 M16-79407
TEMPERATURE DEPENDENCE OF STIMULATED EMISSION OF ELECTRON-BEAM-PUMPED CDTE 67-10 M16-79468
HEATS OF ATOMIZATION AND FORMATION OF A3 B5 COMPOUNDS FROM EXPERIMENTAL DATA ON ELECTRON-DENSITY DISTRIBUTIONS 67-11 M15-80156
THERMOMAGNETIC EFFECTS IN THE SEMICONDUCTING INTERMETALLIDES, ZN4SB3 AND ZN3SB2, AND THE CHARACTER OF THE CHEMICAL BOND 67-11 M15-80172
ELECTRICAL PROPERTIES OF GERMANIUM COMPOUNDS 67-11 M15-80610
ELECTROMAGNETIC AND THERMOMAGNETIC EFFECTS IN CADMIUM ARSENIDE 67-11 M15-80611
STUDY OF ELECTRON LIFETIME IN P-SI 67-11 M15-80622
EVAPORATED METALLIC CONTACTS OT CONDUCTING STRONTIUM TITANATE SINGLE CRYSTALS 67-11 M15-81085
THE ROLE OF ACCEPTORS IN THE LUMINESCENCE OF N-TYPE GAAS 67-11 M15-81677
HARTREE SELF-CONSISTENT FIELD OF SEMICONDUCTOR PBSE 67-11 M16-80155
TRANSPORT PHENOMENA IN SEMICONDUCTING THIN FILMS 67-11 M16-80223
TUNNELING IN METAL-OXIDE-SILICON STRUCTURES

SEMICONDUCTORS
67-11 M16-80537
IMPROVEMENT OF MINORITY CARRIER LIFETIME IN SILICON DIODES 67-11 M16-80839
SOLUBILITY EFFECTS OF IMPLANTED IONS IN SEMICONDUCTORS 67-11 M16-81204
PIEZORESISTANCE EFFECT IN P-TYPE PBTE 67-11 M16-81486
PHYSICAL FUNDAMENTALS OF SE- AND SIBASED RECTIFIERS 67-11 M16-81531
NEUTRON-INDUCED TYPE CHANGES IN P-TYPE SILICON 67-11 M16-81691
NONOHMIC PROPERTIES IN N-TYPE INSB 67-12 M15-81767
ELECTRICAL PROPERTIES OF NONSTOICHIOMETRIC THORIUM CARBIDES 67-12 M15-82364
EFFECT OF MARTENSITIC TRANSFORMATION ON THE ELECTRICAL AND MAGNETIC PROPERTIES OF NITI 67-12 M15-82748
CURRENT OSCILLATIONS IN CO-DOPED SI P-I-N STRUCTURES 67-12 M15-83014
ABOUT THE ROLE OF MINORITY CARRIERS IN THE IMPURITY CONDUCTION OF GASB 67-12 M16-82014
SEMICONDUCTORS, ULTRASONICS
THEORY OF ULTRASONIC ATTENUATION BY NEUTRAL DONORS IN GERMANIUM 67-01 M16-57960
SEMICONDUCTORS, WELDING
A MICROWELDING MACHINE FOR THE PRODUCTION OF SEMICONDUCTOR COMPONENTS 67-02 M11-61049
ULTRASONIC WELDING WITH PULSED INDIRECT HEATING OF MICROCIRCUIT ELEMENTS 67-04 M11-66812
CALCULATING TEMPERATURE DISTRIBUTION IN THE CONTACT WHEN PRESSURE MICROWELDING WITH INDIRECT HEAT 67-12 M11-81911
SEMICONDUCTORS /MATERIALS/
SEMICONDUCTOR PROPERTIES OF BORON 67-01 M16-58414
SEMICONTINUOUS CASTING
SEE CONTINUOUS CASTING
SEMIKILLED STEELS
SEE KILLED STEELS
SEMIKILLING
SEE DEOXIDIZING
SEMIMETALS
SEE METALLOIDS
SENDZIMIR PLANETARY MILLS
SEE PLANETARY MILLS
SENDZIMIR PROCESS
SEE ZINC PLATING
SENSING
SEE DETECTION
SENSITIVITY
SEE NOTCH SENSITIVITY
SENSITIZING
NEW QUANTITATIVE METHOD FOR THE STUDY OF TRANSFORMATIONS IN SOLID STATE.. APPLICATION TO DETERMINATION OF THE DEPTH OF THE DECHROMIZED ZONE IN 18-8 SENSITIZED STEEL 67-05 M14-69132
SEPARATION
SEE ALSO ELECTROSTATIC PRECIPITATION
X-RAY FLUORESCENCE TECHNIQUE FOR THE STUDY OF SEGREGATION IN STEEL 67-04 M13-66985
STUDY OF THE SORPTION AND SEPARATION OF IONS OF CERTAIN METALS BY PHOSPHORYLIZED CELLULOSE 67-05 M03-68969
SPHEROID FLOTATION IN CAST IRON WITH SPHEROIDAL GRAPHITE 67-05 M14-68519
DESEGREGATION AND RESEGREGATION AS OBSERVED BY HIGH-TEMPERATURE MICROSCOPY 67-05 M14-68587
A FIELD-ION MICROSCOPE STUDY OF SEGREGATION TO GRAIN BOUNDARIES IN IRIDIUM 67-07 M13-73904
SEPARATION PROCEDURE FOR THE ANALYSIS OF SMALL AMOUNTS OF IRON ALLOYS AND THEIR ISOLATED STRUCTURAL CONSTITUENTS 67-07 M19-73027
A PROPOSED USE FOR ION EXCHANGE IN GOLD CYANIDATION 67-08 M03-75328
CHANGES IN STRUCTURE AND PROPERTIES OF AL-5 PER CENT ZN-1 PER CENT MG AND AL-5.5 PER CENT GE ALLOYS DURING AGING 67-08 M10-74628
INFLUENCE OF COOLING RATE DURING ALLOY SOLIDIFICATION ON THE SEGREGATION OF SOLUBLE IMPURITIES 67-08 M13-74760
STUDY OF THE DECOMPOSITION OF SUPERSATURATED SOLID SOLUTIONS BY THE NUCLEAR MAGNETIC RESONANCE METHOD 67-08 M14-74336
THE BEHAVIOR OF ZINC DURING LAYER SEPARATION OF A GALLIUM AMALGAM 67-09 M03-76583
A NEW METHOD FOR REFINING METALS 67-09 M03-76691
PURIFICATION OF RAW MATERIALS 67-10 M02-79989
ZONAL SEGREGATION IN CENTRIGUGAL CASTING OF OKH10N20T2 STEEL 67-12 M06-83031
SEPARATION OF TUNGSTEN POWDER INTO FRACTIONS, USING A FLUIDIZED BED 67-12 M09-82173
EFFECTS OF CONSTITUTIONAL LIQUATION IN 18-NI MARAGING STEEL WELDMENTS 67-12 M11-82822
DETERMINATION OF SILICON BY NEUTRON RADIOACTIVATION AND APPLICATION TO NUCLEAR GRAPHITES AND ALUMINAS. INVESTIGATION OF INTERFERENCES 67-12 M16-82239
SEPARATION, WELDING EFFECTS
SOLIDIFICATION AND SEGREGATION IN WELDING OF BINARY ALLOYS 67-06 M11-70135
SEPARATORS
SEE CENTRIFUGAL CLASSIFIERS
CYCLONE SEPARATORS
DEGASSERS
DUST COLLECTORS
DUST FILTERS
ELECTROSTATIC PRECIPITATORS
FILTERS /FLUID/
FLOTATION MACHINES
ION EXCHANGERS
JIGS /CONCENTRATORS/
MAGNETIC SEPARATORS
WET CLASSIFIERS
SEQUESTERING
ALKALI DE-RUSTING SOLUTIONS 67-07 M12-73643
SERVICE LIFE
SEE SERVICE TIME
SERVICE TIME
BLAST FURNACE TUYERES 67-02 M04-59567
INVESTIGATION OF MAGNESITE-CHROMITE BRICK AFTER SERVICE IN THE ROOF OF A TUNNEL FURNACE 67-02 M05-62291
EFFECT OF THE PURITY OF STEEL AND OF THE CORROSIVE MEDIUM ON LOW-CYCLE FATIGUE 67-02 M17-59655
EFFECT OF REPEATED HEAT TREATMENT ON MECHANICAL PROPERTIES OF CARBON STEEL 67-02 M17-59667
INVESTIGATION OF WEAR PHENOMENA OF BLAST FURNACE LININGS 67-03 M04-65922
HOW REFRACTORY QUALITY AFFECTS GAS FLAME FURNACE LINING SERVICE 67-04 M05-67877
SUPERHEATING PIPES TESTED AFTER OPERATION FOR 100,000 HR 67-04 M17-67131
ECONOMICAL MELTING IN CRUCIBLES, FACTORS AFFECTING THE LIFE OF CRUCIBLES 67-05 M06-68521
LIFE OF RESIN-BONDED DOLOMITE REFRACTORIES IN CONVERTER LININGS 67-06 M05-70207
FAILURE MECHANISM OF PERICLASESPINEL AND CHROMITE-MAGNESITE LININGS IN OXYGEN CONVERTERS 67-06 M05-70564
WEAR MEASUREMENTS ON THE LINING OF A KALDO CONVERTER 67-06 M05-70840
REDUCED SERVICE LIFE OF STRUCTURAL BOILER PARTS WHEN PERMISSIBLE OPERATING TEMPERATURES ARE EXCEEDED 67-06 M17-70083
THE CONTACT ENDURANCE OF BALL BEARING STEEL 67-06 M17-70095
LENGTHENING THE LIVES OF METALLURGICAL INGOT MOLDS 67-06 M17-70197
BRITTLE FRACTURES IN SERVICE 67-06 M17-70561
FACTORS AFFECTING THE WEAR RATE OF THE REFRACTORY LINING OF LD CRUCIBLES 67-07 M04-73117
POURING RATE AND NOZZLE WEAR OF STEEL PLANT LADLES 67-07 M04-73241
DUPLEX REFRACTORY SNORKLE TUBE ADVANCES PRESSURE POURING PROCESS 67-07 M05-73843
ROLLING MILL ROLLS OF CHROMIUM IRON 67-07 M07-74077
STEELPLANT INGOT MOLDS OF NODULAR IRON 67-07 M17-73260
INCREASING THE LIFE OF HOT SAW BLADES 67-08 M01-76278
REFRACTORIES KEEP PACE WITH RISING OUTPUT RATES ON IRON AND STEEL PLANTS 67-08 M05-75698
EVALUATION OF OPEN-HEARTH ROOF BRICK 67-09 M04-77965
BEHAVIOR OF HIGH-FIRED BASIC BRICK IN SPRUNG ARCHES 67-09 M05-76455
DURABILITY OF A TUNGSTEN ELECTRODE WHEN WELDING WITH REVERSE POLARITY PULSED ARC 67-09 M11-77611
METHOD OF INCREASING THE ENDURANCE OF COMPRESSION SPRINGS 67-10 M17-78822
INCREASING THE STRENGTH OF DISKS FOR HOT-CUTTING SAWS 67-10 M17-79271
DEVELOPMENTS IN THE USE OF DIRECT-BONDED BRICK

67-11 M04-80109
DIRECT BONDED BRICK IN OPEN HEARTH FURNACES
67-11 M04-80110
STUDY OF BLAST FURNACE STACK REFRACTORY LIFE WITH THE AID OF ISOTOPES 67-11 M04-81303
HEARTH AND WALL LIFE IN AN ARC FURNACE WORKING OFF A LONG RUN OF STAINLESS STEEL HEATS
67-11 M04-81608
EFFECT ON INTERNAL STRESSES ON MOLD LIFE
67-11 M06-80852
REQUENCHING OF THE WORKING ROLLS OF COLD ROLLING MILLS 67-11 M10-80860
FACTORS AFFECTING THE SERVICE LIFE OF CAST TOOLING
67-11 M17-81126
EFFECT OF CHEMICAL COMPOSITION AND TECHNOLOGY OF MANUFACTURE ON LIFE OF BHILAI STEEL PLANT INGOT MOLDS 67-12 M06-83119
IMPROVING LINING LIFE AS A WAY OF INCREASING FURNACE PRODUCTIVITY 67-12 M14-81731

SERVICE TIME, HEATING EFFECTS
FABRICATION AND TREATMENT OF EXTRUSION DIES. PT. 3
67-09 M10-76787
FABRICATION AND TREATMENT OF EXTRUSION DIES. PT. 4
67-09 M10-76788
INCREASING THE LIFE OF THE WORKING ROLLS OF COLD ROLLING MILLS 67-12 M07-81870

SERVOMECHANISMS
SEE SERVOMOTORS

SERVOMOTORS, MATERIALS
COBALT-PLATINUM ROTORS FOR SMALL SYNCHRONOUS DEVICES--ECONOMICS OF DESIGN AND CONSTRUCTION
67-05 M20-69715

SERVOS
SEE SERVOMOTORS

SESSILE DISLOCATIONS
SOURCE OF LOW-TEMPERATURE ELASTIC LIMIT OF CUBIC CENTERED METALS 67-05 M17-69466
SLIP AND THE CONCEPTION OF SPLITTING OF DISLOCATIONS IN BCC METALS 67-06 M14-71522
THE EFFECT OF THE TYPE OF SPLITTING OF SCREW DISLOCATIONS ON THE SLIP GEOMETRY IN BCC METALS
67-12 M13-82003

SESSILE RINGS
SEE DISLOCATION LOOPS
SESSILE DISLOCATIONS

SETTLERS /FOREHEARTHS/
SEE HOLDING FURNACES

SHAFT FURNACES
SEE ALSO CUPOLAS
HOT BLAST CUPOLAS
CZECHOSLOVAK INDUSTRIAL FUEL FURNACES
67-02 M06-60918
MELTING COPPER IN A HURRY 67-06 M03-71671
INVESTIGATION OF CARBURIZATION AND DESULFURIZATION IN LOW-SHAFT ELECTRIC FURNACES
67-07 M04-73238

SHAFT KILNS
SEE KILNS

SHAFTING
SEE SHAFTS /POWER/

SHAFTS /POWER/
SEE ALSO CAMSHAFTS
CRANKSHAFTS
A METHOD OF CLOSING UP DEFECTS IN LARGE INGOTS
67-03 M07-65964
MACHINING OPERATIONS ON ROCKER SHAFT COMPONENTS
67-07 M08-73371
TUNGSTEN-CARBIDE SEAL HANDLES RANGE FROM MINUS 423 TO PLUS 800 F 67-07 M20-73616
STUDY OF THE KINETICS OF THE ISOTHERMAL TRANSFORMATION OF AUSTENITE IN 20KHGNR STEEL
67-08 M14-74341

SHAFTS /POWER/, CASTING
PRODUCTION OF CALENDER AND OTHER SHAFTS FOR PAPER-MAKING MACHINES 67-02 M06-61240
PRODUCTION OF CALENDAR AND OTHER ROLLS FOR PAPERMAKING MACHINES 67-04 M06-68100

SHAFTS /POWER/, COATING
STUDY OF VIBROARC BUILDING OF BRONZE ON STEEL
67-01 M12-58027
INVESTIGATION CONCERNING INFLUENCE OF METAL SPRAYING ON BENDING FATIGUE STRENGTH OF CARBON STEEL SHAFTS 67-04 M11-68015

SHAFTS /POWER/, FORGING
REDUCING SHAFT BILLETS IN A SPECIAL DIE
67-08 M07-75483

SHAFTS /POWER/, HARD SURFACING
RECLAMATION OF WORNOUT SURFACES BY RESISTANCE WELDING TECHNIQUE 67-02 M12-60137
WORN SURFACES RECONDITIONED BY RESISTANCE WELDING
67-04 M12-67677

SHAFTS /POWER/, HARDENING
RESIDUAL STRESSES AND FATIGUE STRENGTH OF INDUCTION-HARDENED SHAFTS WITH TRANSITIONS IN CROSS SECTION 67-01 M17-57923
AN ELECTROMAGNETIC DEVICE FOR CONTROLLING THE DEPTH OF THE HARDENED LAYER ON COMPONENTS TREATED WITH HIGH-FREQUENCY CURRENT
67-10 M19-78969

SHAFTS /POWER/, HEAT TREATMENT
INFLUENCE OF COOLING RATES ON CRACK FORMATION DURING STEEL QUENCHING 67-09 M10-77403

SHAFTS /POWER/, HEATING
GAS FURNACE FOR SHRINKING LINERS ON SHIPS SHAFTS
67-10 M10-79299

SHAFTS /POWER/, MACHINING
FLEXIBLE LINE MAKES QUALITY PUMP GEARS
67-06 M08-71204
GEAR LINK LINE HANDLES HEAVY UNSTABLE COMPONENTS
67-08 M08-74460

SHAFTS /POWER/, MECHANICAL PROPERTIES
FATIGUE FAILURE OF A SCREWED SHAFT
67-08 M17-74511
FAILURE OF THE SHAFT OF A VERTICAL PUMP
67-08 M17-75536
THE FATIGUE FACTOR IN ENGINEERING DESIGN
67-08 M17-75613
FAULTS IN DESIGN REVEALED BY SERVICE FAILURES. PT. 2 67-08 M17-75615
SHAFT CURRENTS AS CAUSES OF BEARING FAILURE
67-10 M17-78901

SHAFTS /POWER/, METAL WORKING
PRECISION UPSETTING OF FLANGED RODS USING LOCAL INDUCTION HEATING 67-02 M08-59826
HEAT AT THE RIGHT SPOT STRAIGHTENS DEFORMED SHAFTS
67-04 M07-68113
THERMOMECHANICAL TREATMENT FOR ISOTROPIC STRUCTURE
67-09 M08-76441

SHAFTS /POWER/, NONDESTRUCTIVE TESTING
ULTRASOUND HUNTS FOR WEAK SPOTS
67-02 M19-58972
ULTRASONIC TESTING LOCATES DEFECTS IN METALS
67-09 M19-76479

SHAFTS /POWER/, WEAR
THE RELATIONSHIP BETWEEN BASIC MODES OF WEAR AND EXPERIENCE IN ENGINEERING PRACTICE
67-04 M17-66292

SHAFTS /POWER/, WELDING
FRICTION WELDING OF DRILLING RODS
67-01 M11-57377
AUTOMATIC WELDING OF ELECTRIC MOTOR SHAFTS MADE FROM DISSIMILAR STEELS 67-02 M11-62168
CONTACT BUILDUP OF THE SURFACES OF ROTATING BODIES
67-04 M11-67011
RESISTANCE HARDFACING ON AXIALLY SYMMETRICAL COMPONENTS 67-08 M11-74770

SHAPING
THE USE OF COLD CUTTING AND NIBBLING MACHINES FOR THE FLANGING OF THIN SHEET 67-01 M08-58115

SHATTERING
SEE FRAGMENTATION

SHAVINGS, MELTING
PRODUCING SYNTHETIC CAST IRONS FROM SHAVINGS
67-02 M06-61801
USING CAST IRON SHAVINGS IN PRODUCING CAST IRON IN INDUCTION FURNACES 67-02 M06-61802
USE OF STEEL CHIPS DURING STEEL MELTING
67-04 M04-67501
PRODUCTION OF SYNTHETIC CAST IRONS FROM SWARF
67-09 M06-78073
USING CAST IRON SWARF FOR MELTING IRON IN INDUCTION FURNACES 67-09 M06-78074

SHAVINGS, PRESSING
PRODUCING BRIQUETTES FROM SHAVINGS AND SLURRY
67-02 M02-62157
CHIPS AND SLUDGE MADE INTO BRIQUETTES
67-04 M02-68199
CORROSION RESISTANCE OF POROUS MATERIALS PRODUCED BY HOT COMPACTION OF STEEL SHIPS
67-06 M18-72333

SHAW PROCESS CASTING
CASTING HOT-SIZING DIES FOR TITANIUM
67-03 M06-65767
HERFING IN A PRECISION CAST DIE
67-03 M20-65112
MAKING CAST INSERTS HAVING DIE IMPRESSIONS FORMED BY PRECISION CASTING 67-05 M06-69187
PERMANENT MOLD FOUNDRY SLASHES DIE COST WITH SHAW

SHAW PROCESS CASTING
CASTING PROCESS 67-06 M06-70227
SHEAR MODULUS
ENERGY AND ATOMIC CONFIGURATIONS OF COMPLETE AND DISSOCIATED DISLOCATIONS. PT. 2. SCREW DISLOCATION IN AN FCC METAL 67-01 M13-58752
LOW-TEMPERATURE ELASTIC PROPERTIES OF ZRC AND TIC 67-01 M17-57116
AN ANOMALOUS DECREASE OF THE ELASTIC MODULI AT VERY LOW TEMPERATURES IN SOME 300 SERIES STAINLESS STEELS 67-01 M17-57624
CALCULATION OF THE POLYCRYSTALLINE RADIOGRAPHIC ELASTIC CONSTANTS OF TWO-PHASE ALPHA- BETA BRASS 67-01 M17-58388
MAGNETOELASTIC PROPERTIES OF THE ANTIFERROMAGNETIC COMPOUND MNAU2 67-02 M15-61923
THE EFFECT OF CERTAIN ALLOYING ELEMENTS ON THE ELASTIC MODULUS AND THE POSITION OF INTERNAL FRICTION AT HIGH TEMPERATURE IN IRON ALLOYS 67-03 M17-65950
THERMAL RELAXATION OF MECHANICAL VIBRATIONS IN POLYCRYSTALS 67-04 M15-67824
DISCUSSION OF THE EFFECTS OF METALLIC COATINGS ON THE TORSIONAL RECOVERY OF WIRES 67-04 M17-66543
THE EFFECT OF ANNEALING TEMPERATURE ON INTERNAL FRICTION AND SHEAR MODULUS OF PURE CHROMIUM AND ALLOYS OF CHROMIUM WITH YTTRIUM AND GADOLINIUM 67-04 M17-66825
INTERNAL FRICTION AND SHEAR MODULUS OF NICKEL-CHROMIUM-BASE HEAT RESISTANT ALLOYS 67-04 M17-66826
INTERNAL FRICTION IN SINTERED MAGNESIUM 67-04 M17-67821
ELECTRICAL RESISTIVITY, ELASTIC MODULUS, AND DEBYE TEMPERATURE OF TITANIUM DIBORIDE 67-06 M15-71058
ELECTROFORMING THIN SHELLS FOR EXPERIMENTAL STUDIES 67-07 M12-73132
MEASURING THE ELASTIC MODULI OF INORGANIC FILAMENTS 67-07 M17-73136
PROPERTIES OF A PLASTICIZED POWDER CHARGE AND LAWS OF ITS EXTRUSION 67-08 M09-74903
THE IRREVERSIBLE AMPLITUDE DEPENDENCE OF PLASTICALLY DEFORMED POLYCRYSTALLINE CU 67-09 M17-77746
EFFECT OF FREE CARRIERS ON SHEAR MODULUS OF GERMANIUM 67-10 M17-79114
LOW-TEMPERATURE INTERNAL FRICTION OF ALUMINUM AT 1-HZ 67-11 M17-80232
INTERNAL FRICTION AND MODULUS OF RIGIDITY IN HEAT TREATED AND MECHANICALLY PROCESSED ALUMINUM 67-11 M17-81161
ELASTIC MODULI AND DEBYE TEMPERATURES OF THE POLYCRYSTALLINE RARE-EARTH METALS AT 4.2 AND 300 K 67-12 M17-82101
SHEAR MODULUS, TEMPERATURE EFFECTS
AN APPARATUS FOR DETERMINING THE ELASTIC CONSTANT OF METALS IN THE 20 TO - 253 C. TEMPERATURE RANGE 67-03 M17-65612
ELASTIC PROPERTIES OF NITI AS A FUNCTION OF TEMPERATURE 67-04 M17-66116
THE TEMPERATURE DEPENDENCE OF THE ELASTIC CONSTANTS OF TI AND TI ALLOYS 67-08 M17-75066
SHEAR PROPERTIES
SEE ALSO SHEAR MODULUS
SHEAR STRENGTH
SHEAR STRESS
ON SECOND-ORDER STRAIN ACCUMULATION IN TORSION FATIGUE 67-02 M17-61295
THE MECHANISM OF RIDGING PHENOMENON IN 17 PER CENT-CHROMIUM STAINLESS STEEL SHEETS 67-11 M17-80941
SHEAR SEIZURE BONDING
SEE FRICTION WELDING
SHEAR SPINNING
SEE SPINNING /METALS/
SHEAR STRENGTH
SHEAR STRENGTH OF SEVERAL ALLOYS AT LIQUID-HYDROGEN TEMPERATURES 67-01 M17-57625
EFFECTS OF ORIENTATION AND CARBON ON THE MECHANICAL PROPERTIES OF IRON SINGLE CRYSTALS 67-02 M17-58949
GROWTH OF DIFFUSION LAYER IN COPPER JOINTS BRAZED WITH TIN-LEAD SOLDERS 67-04 M11-67805
DISCUSSION OF THE EFFECTS OF METALLIC COATINGS ON THE TORSIONAL RECOVERY OF WIRES 67-04 M17-66543
NATURE AND GROWTH KINETICS OF THE DIFFUSION LAYER IN COPPER JOINTS MADE WITH TIN-LEAD SOLDERS 67-06 M11-70305
THE BWRA QUALITY MONITOR AND SPOT-WELDING GALVANIZED STEEL SHEET--AN EVALUATION 67-06 M11-71684
THE THEORETICAL STRENGTHS OF CRYSTALS AND THE TIP OF A CRACK 67-06 M17-71519
SHEARING FORCE MEASUREMENTS ON A MECHANICALLY WORKING 2000-TON INGOT-SLAB SHEAR 67-06 M17-71703
CONDENSER DISCHARGE WELDING OF ALUMINIUM AND ITS ALLOYS BY EMPLOYING INSERTS 67-07 M11-72417
ON THE CHANGES OF SOME PROPERTIES OF STEEL DURING ALTERNATING STRESSES 67-07 M17-73708
APPLYING CARBIDE COATINGS BY ADHESIVE BONDING 67-08 M12-74492
ADHESION STRENGTH OF LAYERS IN BIMETAL SHEETS UNDER INTERMITTENT STATIC LOADS 67-08 M17-74531
PROPERTIES OF COMMERCIAL WROUGHT ALLOYS 67-08 M17-74810
SHEAR STRENGTH, ALLOYING EFFECTS
THE EFFECT OF TRACE ELEMENTS ON THE DEFORMATION BEHAVIOR OF A HIGH-TEMPERATURE NICR STEEL 67-04 M17-67410
TORSIONAL DUCTILITY AND STRENGTH OF IRON-CARBON ALLOYS AT ELEVATED TEMPERATURE 67-08 M17-75975
SHEAR STRENGTH, RADIATION EFFECTS
RADIATION EFFECTS ON SHEAR STRENGTH OF SEVERAL ALLOYS AT LIQUID HYDROGEN ENVIRONMENT 67-09 M17-78109
RADIATION EFFECTS ON SHEAR STRENGTH OF SEVERAL ALLOYS AT LIQUID HYDROGEN ENVIRONMENT 67-10 M16-78492
SHEAR STRENGTH, TEMPERATURE EFFECTS
TEMPERATURE DEPENDENT SHEAR RUPTURE IN LOW CHROMIUM AND MOLYBDENUM STEELS 67-09 M17-78231
SHEAR STRESS
TEMPERATURE AND STRAIN-RATE DEPENDENCE OF THE FLOW STRESS OF AGMG SINGLE CRYSTALS 67-01 M17-57110
ON THE CRITICAL RESOLVED SHEAR STRESS OF SOLID SOLUTIONS CONTAINING COHERENT PRECIPITATES 67-01 M17-57573
LIMIT OF THE GREATEST STRESS AT YIELD POINT 67-02 M17-58806
RELATION BETWEEN PURE SHEAR AND SIMPLE SHEAR IN PLASTIC RANGE 67-02 M17-58820
RELATION BETWEEN PURE SHEAR AND SIMPLE SHEAR IN PLASTIC RANGE. PT. 2. EXPERIMENT 67-02 M17-58821
AMPLITUDE DEPENDENCE OF THE INTERNAL FRICTION AND MODULUS DEFECT IN ALUMINIUM. PT. 4. INVESTIGATION ON THE CRITICAL SHEAR STRESS 67-02 M17-59615
THE EFFECT OF VACUUM ANNEALING ON THE STRAIN BEHAVIOUR OF CADMIUM SINGLE CRYSTALS 67-02 M17-61531
THE STRESS FIELDS OF DISLOCATION TILT BOUNDARIES IN ANISOTROPIC CUBIC AND DIAMOND-TYPE CRYSTALS 67-03 M13-65378
EFFECT OF HYDROGEN ON THE DUCTILITY OF BERYLLIUM PURIFIED BY ZONE MELTING 67-03 M17-65244
INVESTIGATION INTO PLASTIC BEHAVIOUR OF ZONE REFINED AND PRESTRAINED BE SINGLE CRYSTALS 67-03 M17-65265
EFFECT OF PURITY ON TENSILE DEFORMATION IN SINGLE CRYSTALS 67-03 M17-65266
COMPRESSION OF BERYLLIUM PARALLEL TO THE C-AXIS 67-03 M17-65267
CONTRIBUTION TO THE STUDY OF THE ACTIVATION OF PRISMATIC SLIP IN BERYLLIUM 67-03 M17-65269
CONTRIBUTION TO THE STUDY OF PLASTIC DEFORMATION MECHANISMS IN POLYCRYSTALLINE BERYLLIUM BETWEEN 80 AND 500 K 67-03 M17-65276
THE CRITICAL SHEAR STRESS OF CUBIC CRYSTALS WITH DEFECT TETRAGONAL SYMMETRY 67-03 M17-65382
STRAIN-RATE DEPENDENCE OF THE FLOW STRESS FOR BASAL SLIP IN ZINC 67-04 M17-67582
THE PLASTICITY OF PURE NIOBIUM SINGLE CRYSTALS 67-05 M17-69465
DISSOCIATED DISLOCATIONS AND THE SCHMID LAW OF RESOLVED SHEAR STRESS IN BCC METALS 67-06 M14-71521
DEFORMATION OF SINGLE CRYSTALS OF AGING CU-NI-CO ALLOYS IN VARIOUS STRUCTURAL STATES 67-06 M17-69994
EASY GLIDE IN MOLYBDENUM CRYSTALS

67-06 M17-70437
AGE SOFTENING 67-06 M17-70446
MECHANISM OF BASAL CREEP IN MG-12 AT. PER CENT LI FROM 500 TO 885 K 67-06 M17-71078
DEFORMATION PROPERTIES OF NIOBIUM SINGLE CRYSTALS 67-06 M17-71520
DISLOCATION CONTRIBUTION TO THE FLOW STRESS OF POLYCRYSTALLINE IRON 67-06 M17-71523
THE EFFECT OF ORIENTATION AND IMPURITIES ON THE MECHANICAL PROPERTIES OF MOLYBDENUM SINGLE CRYSTALS 67-06 M17-71529
ORIENTATION DEPENDENCE OF YIELD IN BODY-CENTERED CUBIC METALS 67-06 M17-71531
CRITICAL RESOLVED SHEAR STRESS OF LEAD 67-06 M17-71537
THERMALLY ACTIVATED SHEAR STRESS IN CADMIUM SINGLE CRYSTALS 67-06 M17-71665
ON THE ORIENTATION DEPENDENCE OF YIELDING IN BCC METALS 67-06 M17-72235
INTERFACIAL INVESTIGATIONS OF BORON FIBER-REINFORCED PLASTICS 67-07 M09-73355
EFFECT OF THE STRAIN RATE ON THE PLASTIC SHEARING BEHAVIOR OF A MILD STEEL HOLLOW CYLINDER --STUDY ON THE DEPENDENCE OF MECHANICAL PROPERTIES OF METALS UPON THE STRAIN RATE. PT. 3. --
67-07 M17-72523
THE DEFORMATION ON NIOBIUM SINGLE CRYSTALS 67-07 M17-73064
COMPONENTS OF THE FLOW STRESS OF RION 67-07 M17-73924
CONTRIBUTION TO THE MECHANICS OF MACHINING 67-08 M08-75571
STUDY OF THE MECHANISM OF PLASTIC DEFORMATION IN UNIRRADIATED AND IRRADIATED LOW CARBON STEEL 67-08 M17-74566
THE INFLUENCE OF THE INTERMEDIATE PRINCIPAL STRESS ON FATIGUE UNDER TRIAXIAL STRESSES 67-08 M17-74682
DISLOCATION DAMPING IN ALUMINUM AT HIGH STRAIN RATES 67-08 M17-75127
THE VALIDITY OF THE ASSUMPTION OF PLANE STRAIN CONDITIONS IN PLASTIC DEFORMATION PROCESSES AND YIELD POINT PHENOMENA IN METALS AND ALLOYS 67-08 M17-75576
MECHANICAL TWINNING OF PLATINUM AND IRIDIUM IN A FIELD-ION MICROSCOPE 67-10 M13-78667
MECHANICAL PROPERTIES OF NI-CR-TI-AL ALLOY --NIMONIC TYPE-- SINGLE CRYSTALS IN VARIOUS ALLOY STRUCTURAL STATES 67-10 M17-79230
REDUCTION OF AREA DURING TENSILE STRESSING OF MONOCRYSTALS OF AN 8 PER CENT ZN-AL ALLOY 67-10 M17-80019
TWINNING IN ZINC BY INDENTATION 67-11 M13-80128
DISLOCATION SUBSTRUCTURE IN SINGLE CRYSTALS OF HEXAGONAL AG-AL ORIENTED FOR PRISMATIC SLIP 67-11 M13-81266
PLASTIC DEFORMATION OF TANTALUM SINGLE CRYSTALS. PT. 1. THE SURFACE MORPHOLOGY OF YIELD 67-11 M17-80312
DEFORMATION OF COPPER SINGLE CRYSTALS AND POLYCRYSTALS AT HIGH STRAIN RATES 67-11 M17-80944
METAL CUTTING AS A PROPERTY TEST 67-11 M17-81023
FATIGUE HARDENING OF COPPER SINGLE CRYSTALS AT LOW STRESS AMPLITUDES 67-11 M17-81261
ANALYSIS OF CHIP FORMATION CHARACTERISTICS OF 18 PER CENT NICKEL MARAGING STEEL 67-12 M08-82775
DISLOCATION MOBILITY IN COPPER 67-12 M13-82368
DEFORMATION OF SILVER-ZINC SINGLE CRYSTALS AS A FUNCTION OF ZINC CONCENTRATION 67-12 M17-82716
THE STRESS DEPENDENCE OF DISLOCATION VELOCITY IN THE MICROSTRAIN REGION 67-12 M17-82877
ANALYTICAL INTERPRETATION OF BRINELL HARDNESS 67-12 M17-83245
THE INFLUENCE OF STRESS-STATE AND INCLUSION CONTENT ON DUCTILE FRACTURE WITH ROTATION 67-12 M17-83249

SHEAR STRESS
CONTRIBUTION TO THE STUDY OF ELASTOPLASTIC
CONTRIBUTION TO THE STUDY OF ELASTOPLASTIC BEHAVIOR OF MONOCRYSTALLINES. PT. 1
BEHAVIOR OF MONOCRYSTALLINES. PT. 1 67-12 M17-83577
INTERACTION OF DISLOCATIONS WITH COHERENT PARTICLES AND STRESS CORROSION CRACKING OF HIGH-STRENGTH ALUMINUM ALLOYS 67-12 M18-82016
SHEAR STRESS, COMPOSITION EFFECTS
THE INCREASE OF CRITICAL SHEAR STRESS DUE TO THE MIGRATION OF DISLOCATIONS THROUGH PARTICLES WITH SYMMETRICAL STRESS FIELD 67-06 M17-71721
SHEAR STRESS, HEATING EFFECTS
THE TENSILE DEFORMATION OF OVERAGED COPPER-1.8 WT. PER CENT BERYLLIUM SINGLE CRYSTALS 67-06 M17-72230
SHEAR STRESS, PRESSURE EFFECTS
EFFECTS OF HYDROSTATIC PRESSURE ON TERMINAL STRUCTURE AND MECHANICAL BEHAVIOR OF BERYLLIUM 67-06 M13-72224
SHEAR STRESS, RADIATION EFFECTS
INVESTIGATION OF THE DECOMPOSITION OF VACANCY AGGLOMERATES IN NEUTRON-IRRADIATED NICKEL WITH THE AID OF THE CRITICAL SHEAR STRESS 67-02 M13-61516
SHEAR TESTS
RELATION BETWEEN PURE SHEAR AND SIMPLE SHEAR IN PLASTIC RANGE 67-02 M17-58820
RELATION BETWEEN PURE SHEAR AND SIMPLE SHEAR IN PLASTIC RANGE. PT. 2. EXPERIMENT 67-02 M17-58821
INVESTIGATION OF LAYER ADHESION STRENGTH IN BIMETAL SHEETS DURING CYCLICAL LOADING 67-03 M17-65606
INFLUENCE OF AUSROLLING BY TWISTING ON BRITTLE FAILURE OF HIGH-CARBON STEELS 67-06 M17-70066
TEMPERATURE DEPENDENCE OF CRITICAL SHEAR STRESS IN ULTRAPURE LEAD SINGLE CRYSTALS TO 1.3 K 67-06 M17-72354
APPARATUS FOR MEASURING THE SHEAR STRENGTH OF ADHESIVE JOINTS AT HIGH TEMPERATURES AND METHODS FOR CONSTRUCTING THE ADHESIVE JOINTS 67-08 M17-75988
METHODS OF TESTING THE ADHESION OF METAL COATINGS TO METALS 67-09 M17-76665
EFFECT OF HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT ON THE RESISTANCE TO RUPTURE OF HIGH-CARBON STEELS STRAINED BY TORSION 67-10 M17-78812
NEW ACCURATE PROCEDURE FOR SINGLE SHEAR TESTING OF METALS 67-12 M17-81852
SHEAR WAVES
SEE SOUND WAVES
TRANSVERSE WAVES
SHEARING
SEE ALSO COLD SHEARING
ONE PRESS--MANY TALENTS 67-05 M07-68811
SHEARING LINE IS A SPACE SAVER 67-05 M08-69101
WEAR ON SHEARING TOOLS--WEAR ON CUTTING EDGES OF BLANKING TOOL FOR SQUARE PARTS 67-06 M17-72264
HUGE SHEARING LINE SPEEDS STEELCASE SHEETS 67-07 M08-73211
COMPACT SHEARING LINE REDUCES SPACE NEEDS 67-07 M20-72624
CYLINDER BLOCK CASTINGS DEFINNED ON TRANSFER MACHINE 67-09 M07-78034
HIGH-SPEED SHEARING OPERATIONS ON THE PETROFORGE 67-10 M08-78598

SHEARING, AUTOMATION
CONTROLLING MODERN FLYING SHEARS 67-05 M08-69181
SYSTEMS STUDY FOR A CONTROL COMPUTER AT THE NEW CASTLE 18 IN. CONTINUOUS MILL 67-12 M07-83173

SHEARING STRESS
SEE SHEAR STRESS
SHEARING TESTS
SEE SHEAR TESTS
SHEARS
THE USE OF COLD CUTTING AND NIBBLING MACHINES FOR THE FLANGING OF THIN SHEET 67-01 M08-58115
SHEATH WORKING
THE EVOLUTION OF SHEATH CONSTRUCTIONS FOR COMMUNICATIONS CABLES 67-09 M07-76405
NEW DEVELOPMENTS IN HYDRAULIC PRESSES FOR LEAD CABLE SHEATHING 67-09 M07-76609
SOME ASPECTS OF SHEATHING CABLES WITH THE HANSSON-ROBERTSON NO. 3 CONTINUOUS EXTRUSION MACHINE 67-09 M07-76610
PROGRESS IN THE CONTINUOUS EXTRUSION FOR LEAD-ALLOYED CABLE SHEATH 67-09 M07-76611
PRODUCTION EXPERIMENTS AND MODIFICATIONS TO HANSSON-ROBERTSON EXTRUDER 67-09 M07-76612
DISPERSION STRENGTHENED LEAD FOR CABLE SHEATHING

67-09 M09-76602

SHEATHING
EXPANDABILITY TEST ON BERYLLIUM TUBE TO BE USED FOR FUEL CLADDING OF NUCLEAR POWER REACTORS
67-05 M17-69883

SHEATHS
THE SELECTION AND USE OF PYROMETER SHEATHS
67-05 M20-68721
PRACTICAL ASPECTS OF THE TEMPERATURE CONTROL IN HEAT TREATMENT PROCESSES. PT. 4
67-06 M20-70830

SHEATHS, CORROSION
STEAM-METHANE REFORMING PROBLEMS--STRESS CORROSION CRACKING IN PRIMARY CONVERSION
67-06 M18-72337

SHEATHS, MATERIALS
EXAMINATION OF THE DIFFUSION OF BERYLLIUM IN MAGNESIUM BY LOCAL SPECTRAL ANALYSIS
67-05 M14-69621

SHEATHS, THERMAL PROPERTIES
UO2/SHEATH HEAT TRANSFER DURING IRRADIATION
67-06 M15-70713

SHEATHS, WELDING
THREE TYPES OF CABLE SHEATH PRODUCED BY HIGH FREQUENCY WELDING 67-06 M11-71137

SHEET /METAL/
MEASUREMENT OF STRAIN HARDENING AND PLASTIC STRAIN RATIO USING THE CIRCLE-ARC SPECIMEN
67-04 M17-66141

SHEET /METAL/, ACOUSTIC PROPERTIES
RECENT DEVELOPMENTS FOR LEAD IN SOUND CONTROL
67-09 M20-76616
THE USE OF THIN LEAD SHEETS FOR SOUND INSULATING PARTITIONS 67-09 M20-76617

SHEET /METAL/, BONDING
ADHESIVE-BONDED JOINTS BETWEEN METALS
67-02 M11-61048
BONDING IN METAL STRUCTURE FABRICATING
67-02 M12-59563
INVESTIGATIONS INTO THE LONG-TIME BEHAVIOR OF COMBINED BONDED AND SPOT WELDED JOINTS
67-09 M11-77338
ADHESION THEORY--INITIAL CONSIDERATIONS, DESIGN REQUIREMENTS AND BONDING AGENTS
67-10 M11-79689

SHEET /METAL/, CASTING
RATE OF RISE OF AL ALLOYS IN A SAND MOLD
67-03 M06-65593

SHEET /METAL/, CLADDING
INFLUENCE OF THE INTERMEDIATE NI FILM ON STRUCTURE AND PROPERTIES OF BIMETAL STEEL
67-04 M12-66373
EFFECT OF THE THICKNESS OF INTERMEDIATE NICKEL COATINGS ON THE STRUCTURE AND PROPERTIES OF TWO-LAYER STEEL PLATES 67-11 M12-80975

SHEET /METAL/, CLEANING
INVESTIGATION OF THE PICKLING OF KH18N10T STEEL SHEETS IN RELATION TO CONDITIONS OF QUENCH HEATING 67-05 M12-68333
PICKLING OF SHEETS FOR SUBSEQUENT LACQUERING, BASE ENAMELING AND DIRECT-WIRE ENAMELING
67-05 M12-69341
HORIZONTAL PICKLING LINE DESIGNED FOR HYDROCHLORIC ACID 67-06 M12-70842
INVESTIGATING THE PICKLING OF KH18N10T STEEL PLATE IN RELATION TO CONDITIONS UNDER WHICH PLATES ARE HEATED FOR QUENCHING 67-07 M12-72861
THE CLEANING AND DEGREASING OF METALS WITH ORGANIC SOLVENTS 67-10 M12-79382

SHEET /METAL/, COATING
PLASTIC LINED ALUMINUM SHEET 67-01 M01-57460
LACQUERING, COATING AND LAMINATION OF WIDE STRIP
67-01 M12-58111
CONTINUOUS GALVANIZING LINE IN WAKAYAMA STEEL WORKS 67-01 M12-58252
CONTINUOUS COLOR COATING LINE IN IGETA COLOR COATED SHEET CO., LTD 67-01 M12-58253
ORGANIC COATINGS FOR STEEL SHEETS--CONTINUOUS PAINTING LINE 67-01 M12-58489
NEW BONDERIZED STEEL SHEET 67-01 M12-58555
STUDY OF METHODS OF PRODUCTION AND PROPERTIES OF PLASTIC-COATED STEEL SHEETS 67-02 M12-60083
THE DEPOSITION OF THIN FILMS OF ENRICHED URANIUM DIOXIDE 67-03 M12-65016
IMPROVING TINPLATES ALLOY LAYER
67-03 M12-65164
HOW TO SELECT ZINC-COATED STEELS FOR PAINTING
67-03 M12-65665
PERFORATED ZINC SHEETS BY ELECTROFORMING
67-03 M12-65679
RECENT PROBLEMS EXPERIENCED ON SHEET IRON ENAMELS WITH SOME PRACTICAL SOLUTIONS
67-04 M12-66646
ELECTROPAINTING AT MASSEY-FERGUSON TRACTORS
67-04 M12-66720
BETHLEHEMS PINOLE POINT GALVANIZING FACILITY IS IN OPERATION 67-04 M12-68110
ON ALUMINUM COATING. PT. 2. COATING OF SHEET STEEL WITH METAL POWDER 67-06 M12-71293
GROUND ENAMELS AND THEIR PROCESSING
67-06 M12-71743
TESTS ON ANODIZED AL 67-06 M12-71982
ELIMINATION OF NITROGEN FROM LOW-CARBON STEEL SHEET BY AN ALUMINUM DIFFUSION TREATMENT
67-07 M12-72552
WHITE ENAMELING OF SHEET STEEL 67-07 M12-73891
HOMOGENEOUS LEAD COATINGS ON STEEL
67-09 M12-76615
SURFACE PROPERTIES OF VARIOUS ELECTROLYTIC CHROMIC ACID TREATED STEEL SHEETS 67-09 M12-77334
THE COMPOSITION AND PROPERTIES OF MOLTEN GALVANIZING FLUXES 67-09 M12-77646
THE INFLUENCE OF STEEL AND OF GALVANIZING CONDITIONS ON THE PROPERTIES OF GALVANIZED SHEET AND STRIP 67-09 M12-77650
GALVANIZING BEHAVIOUR OF COMMERCIAL STEEL SHEET MATERIALS 67-09 M12-77654
GALVANIZED STEEL SHEET.. ITS USE IN ITALY
67-09 M12-77665
HYDROGEN DIFFUSION TESTING OF SHEET SUSCEPTIBLE TO FISH SCALE 67-09 M12-78053

SHEET /METAL/, COLD WORKING
THE USE OF COLD CUTTING AND NIBBLING MACHINES FOR THE FLANGING OF THIN SHEET 67-01 M08-58115

SHEET /METAL/, CORROSION
WEATHERING PIT FORMATION ON SURFACE OF AL SHEET. EFFECT OF DISSOLVED OXYGEN IN PURE WATER
67-05 M18-68869
IMPROVING INTERGRANULAR CORROSION RESISTANCE OF SHEET AND STRIP OF KH18N9T --KH18N10T-- STAINLESS STEEL 67-05 M18-69827
PITTING ON CUT AND ROLLED SURFACES OF STEEL SHEET WITH 18 PER CENT CR AND 10 PER CENT NI
67-09 M18-77228
PAINTING HOT DIP GALVANIZED SHEET--EXPERIMENTAL RESULTS IN DIFFERENT ATMOSPHERES
67-09 M18-77660
RAISING THE RESISTANCE OF KH18N9T --KH18N10T-- STEEL SHEET AND STRIP TO INTERCRYSTALLITE CORROSION 67-12 M18-82261

SHEET /METAL/, CORROSION TESTS
NEW ACCELERATED CORROSION TESTS FOR SURFACE-PROTECTED STEEL SHEET. PT. 3. QUANTITATIVE CORROSION TESTS ON PHOSPHATED AND PAINTED SHEET
67-08 M18-75665

SHEET /METAL/, CRYSTAL LATTICES
MECHANICAL TWINNING IN COLD-ROLLED SILVER SINGLE CRYSTALS 67-03 M13-65231
STRESS AND DELAY TIME FOR THE APPEARANCE OF TWINNING DEFORMATION IN IRON SINGLE CRYSTALS
67-06 M17-71734

SHEET /METAL/, CUTTING
THE FUTURE OF CUTTING MACHINES --TORCHES-- IN POLAND 67-01 M08-58177
THE TECHNOLOGY OF SHEET METAL WORKING
67-03 M08-65759
PULSED OXYGEN CUTTING 67-03 M11-65052
BEHAVIOR OF ARC DURING PLASMA CUTTING OF METAL
67-04 M11-67004
SHEARING LINE IS A SPACE SAVER 67-05 M08-69101
PULSE OXYGEN CUTTING 67-07 M11-73973
ARC BEHAVIOR IN THE PLASMA CUTTING OF METALS
67-08 M11-74763

SHEET /METAL/, DIMENSIONAL ANALYSIS
EXPERIENCE WITH A RADIOMETRIC THICKNESS GAGE FOR PLATES IN THE OLBERNHAU SHEET ROLLING MILL
67-08 M19-74450

SHEET /METAL/, DIMENSIONAL MEASUREMENTS
THICKNESS GAGING--WHERE THE CUSTOMERS MIKE IS ALWAYS RIGHT 67-09 M19-76497

SHEET /METAL/, DRAWABILITY
IRREGULAR TEXTURES OF ALUMINUM SHEETS
67-05 M13-68401

SHEET /METAL/, ELECTRICAL PROPERTIES
EFFECT OF TEMPERATURE ON IMPEDANCE OF PAINTED STEEL PANELS 67-02 M15-60990

SHEET /METAL/, FORMABILITY
THE EFFECT OF ROLLING AND ANNEALING TEMPERATURE ON

THE PROPERTIES OF WROUGHT BERYLLIUM INGOT SHEET
67-03 M17-65281

SHEET /METAL/, FORMING
ON TESTING DRAW PROPERTIES OF THIN-SHEET METALS ON PTL-10 AND MTL-10 TESTERS 67-01 M17-57246
YOUNGSTOWNS 80-IN. COLD ROLLED SHEET MILL AT INDIANA HARBOR 67-03 M07-65925
THE MEASUREMENT OF FORCE FOR THE DETERMINATION OF OPTIMUM CONDITIONS IN DEEP DRAWING
67-03 M08-65758
THE STATUS OF SHEET-METAL FORMING TECHNOLOGY
67-05 M07-69145
ELECTROHYDRAULIC FORMING 67-05 M08-69738
STRETCH-DRAW FORMING--SOME DETAILS OF THE CYRIL BATH PROCESS 67-06 M08-72048
FORMING PLATE, SHEET AND FOIL 67-08 M08-74843
REINFORCING RIBS IN COLD STAMPED PARTS
67-09 M20-76411
THE EVOLUTION OF THE SYSTEMS CONCEPT IN THE PERFORATING AND NOTCHING OF SHEET METAL
67-10 M08-79538

SHEET /METAL/, HEAT TREATMENT
WARPAGE OF THIN WALLED PARTS DURING RELAXATION OF RESIDUAL STRESSES 67-04 M10-66358
OPEN-COIL ANNEALING 67-04 M10-66727
HEAT TREATMENT OF LOW-CARBON AND LOW-ALLOYED STEELS
67-04 M10-67955
ANNEALING OF COLD ROLLED AL ALLOYS. PT. 2. STUDY ON AL-CU, AL-FE ALLOYS 67-05 M10-68866
ANNEALING OF COLD ROLLED AL ALLOYS. PT. 3. STUDY ON AL-MN, AL-SN ALLOYS 67-05 M10-68867
INTENSIFYING THE HEAT TREATMENT OF LOW-ALLOY LOW-CARBON SHEET STEEL 67-07 M10-73791
AUTOMATIC TOP-LOADED VACUUM FURNACE UTILIZED FOR SHEET OR PLATE HEAT TREATMENT
67-07 M10-73840
INTENSIFYING HEAT-TREATMENT CONDITIONS FOR LOW-ALLOY MILD STEELPLATE 67-09 M10-76554
MANUFACTURE OF MILDER STEEL SHEET BY CONTINUOUS ANNEALING PROCESS 67-09 M10-77333
THE HEATING AND COOLING OF OPEN COILS IN SINGLE-PILE BELL FURNACES 67-09 M10-77346
DENITRIDING OF STEEL COILS FOR DEEP DRAWING IN REACTIVE ATMOSPHERES. RELATIONSHIP BETWEEN RESIDUAL NITROGEN AND AGING 67-09 M10-78294
EFFECT OF RAPID HEAT TREATING ON MECHANICAL PROPERTIES OF LOW-CARBON STEEL SHEET
67-10 M10-79770
DISTORTION OF THIN-WALLED PIECES DURING RELAXATION OF RESIDUAL STRESSES 67-11 M10-80960

SHEET /METAL/, HEATING
CALCULATIONS IN INDUCTION HEATING OF ROLLED SHEET
67-01 M10-58051
EFFECT OF THERMOPHYSICAL PROPERTIES OF STEEL ON HEATING TECHNOLOGY 67-06 M10-70299

SHEET /METAL/, LAMINATING
A LAMINATING RESIN IS USEFUL TO WIRE AND CABLE PRODUCERS 67-07 M11-73846

SHEET /METAL/, LUBRICATION
LUBRICATION AND FORMABILITY IN SHEET METAL WORKING
67-04 M08-66143

SHEET /METAL/, MACHINING
TORNETIC CONTROLS AND BUR-POINT GEOMETRY SOLVE PROBLEM OF DRILLING BERYLLIUM SHEET
67-05 M08-69589
WHAT YOU CAN DO WITH ABRASIVE-BELT MACHINING
67-08 M08-74464
NEW KNOWLEDGE CONCERNING THE FUNCTIONING OF THE FLAME CUTTING PROCESS 67-08 M08-75787
PLASMA-ARC CUTTING OF TITANIUM AND ITS ALLOYS
67-12 M08-83182

SHEET /METAL/, MAGNETIC PROPERTIES
SIMULATED DYNAMIC BEHAVIOR OF DOMAINS IN ORIENTED ELECTRICAL STEEL SHEETS 67-07 M15-73513

SHEET /METAL/, MEASUREMENT
MEASUREMENT OF SURFACE QUALITY OF ALUMINUM SHEET BY OPTICAL REFLECTION 67-04 M19-67065

SHEET /METAL/, MECHANICAL PROPERTIES
FATIGUE BEHAVIOR OF ALUMINUM AND TITANIUM SHEET MATERIALS DOWN TO MINUS 423 F
67-01 M17-57620
ALUMINUM AND ALUMINUM ALLOYS IN SHEET, PLATE AND TUBE FORM 67-01 M17-58306
DEVELOPMENT TRENDS FOR THE USE OF STEEL SHEETS AND STEEL FOIL AS STRUCTURAL MATERIALS FOR SUPERSONIC AIRCRAFT AS SHOWN IN THE XB-70A OF NORTH AMERICAN AVIATION INC 67-01 M20-58113
AGE-HARDENING BEHAVIOUR IN A 5 PER CENT TIN BRONZE CONTAINING TITANIUM 67-02 M14-61845
ANISOTROPY OF THE DUCTILE-BRITTLE TRANSITION BEHAVIOR OF BERYLLIUM SHEETS 67-02 M17-60152
MECHANICAL PROPERTIES OF HIGH-STRENGTH BIMETAL SHEETS 67-02 M17-61971
EFFECT OF LOW-TEMPERATURE TREATMENT ON STRUCTURE AND PROPERTIES OF TITANIUM ALLOYS
67-02 M17-62060
MECHANICAL AND CORROSION PROPERTIES OF SHEETS OF VD3 ALLOY 67-02 M18-61287
THE MEANING OF THE FLOW CURVE OF THIN SHEET
67-03 M17-65570
INFLUENCE OF GRAIN SIZE ON PROPERTIES OF AK4-1 ALLOY SHEETS 67-03 M17-65787
SUITABILITY OF SHEETS FOR PRESSING
67-04 M17-66145
MECHANICAL PROPERTIES OF VAD23 ALLOYS
67-04 M17-66832
A METHOD OF DETERMINING PLASTIC ANISOTROPY OF SHEET METAL 67-04 M17-67091
EFFECT OF HEAT TREATMENT ON PROPERTIES OF SHEETS MADE OF ALLOY VD1 67-04 M17-67534
DISCUSSION ON METHODS OF ESTIMATING THE TENDENCY OF METALS AND ALLOYS TOWARD BRITTLE FAILURE. METHOD OF ESTIMATING THE CRITICAL LENGTH OF A CRACK IN A SINGLE LOADING 67-05 M17-68740
PROPERTIES OF OXYGEN-CONVERTER VKST. 3KP STEEL
67-05 M17-69042
METHODS OF DETERMINING THE MECHANICAL PROPERTIES OF SHEET BIMETALLIC JOINTS 67-05 M17-69048
EFFECTS OF THE CHEMICAL COMPOSITION OF GRADE 15KP STEEL, AND THE ROLLING TECHNOLOGY, ON THE MECHANICAL PROPERTIES AND MICROSTRUCTURE OF HOT ROLLED SHEET 67-06 M17-70218
THE BENDING AND RESIDUAL STRESSES OF STRIPS
67-06 M17-70587
INVESTIGATION OF CONDITIONS OF STRESS IN STRESS CORROSION TESTING SPECIMENS WITH CONSTANT DEFORMATION 67-06 M17-71177
THE EFFECT OF THE SHEET THICKNESS ON THE FRACTURE TOUGHNESS OF CRACKED SHEET 67-06 M17-71181
THE INFLUENCE OF THE LOADING RATE ON THE RESIDUAL STRENGTH OF ALUMINIUM ALLOY SHEET SPECIMENS
67-06 M17-71182
ASSESSING NORMAL ANISOTROPIC PLASTICITY OF SHEET METALS 67-06 M17-71897
EFFECT OF TWO-STAGE COLD ROLLING ON THE DEEP DRAWABILITY OF LOW-CARBON RIMMED STEEL SHEET
67-07 M17-72443
FABRICATING PROPERTIES OF GALVANIZED SHEETS
67-07 M17-73235
PLASTIC PROPERTIES OF THIN SHEET MOLYBDENUM AT VARIOUS DEFORMATION RATES 67-07 M17-73952
SPRINGBACK BEHAVIOR OF LOW-CARBON STEEL SHEET AFTER STRETCH BENDING 67-08 M17-74518
ADHESION STRENGTH OF LAYERS IN BIMETAL SHEETS UNDER INTERMITTENT STATIC LOADS
67-08 M17-74531
AN ESTIMATING METHOD OF THE DEEP DRAWABILITY OF ALUMINIUM SHEET 67-08 M17-75767
DUCTILE YIELDING AND BRITTLE FRACTURE AT THE ENDS OF PARALLEL CRACKS IN A STRETCHED ORTHOTROPIC SHEET 67-08 M17-76157
INVESTIGATION OF THE TRANSITION ZONE IN AN ALUMINUM-STEEL BIMETAL 67-09 M01-78117
FATIGUE BEHAVIOUR OF PLUTONIUM-1.0 WT PER CENT GALLIUM DELTA-STABILIZED PLUTONIUM
67-09 M17-76330
INVESTIGATIONS INTO THE COLD WORKING PROPERTIES OF THE HEAT AFFECTED ZONE RESULTING FROM FLAME CUTTING STEEL SHEET METAL
67-09 M17-77339
THE TESTING OF SHEET METAL FOR FABRICATION PROPERTIES 67-09 M17-77506
MEASUREMENT OF NORMAL PLASTIC ANISOTROPY IN SHEET METAL 67-09 M17-77509
CRYOGENIC PROPERTIES OF 18NI-9CO-5MO AND 18NI-7CO-5MO MARAGING STEEL SHEET 67-09 M17-77566
METHOD OF ASSESSING THE PLASTIC ANISOTROPY OF SHEET METAL 67-09 M17-78071
MECHANICAL PROPERTIES OF HIGH-STRENGTH BIMETALLIC SHEETS 67-10 M17-78828
EFFECT OF STRAIN HARDENING ON THE PROPERTIES OF 08 RIMMED STEEL 67-11 M18-80592
METHODS FOR DETERMINING THE MECHANICAL PROPERTIES OF BIMETAL SHEET BOND 67-12 M17-81999
CORRUGATED PANEL FOR SHIPS WALL
67-12 M20-82921

SHEET /METAL/, METAL FORMING
SHEET METAL FORMING ON STRETCH-DRAW PRESSES

67-08 M08-75764
RADIAL STRETCH FORMING ON EXPANDING MANDREL MACHINES 67-10 M08-78714

SHEET /METAL/, METAL WORKING
STRAIGHTENING OF STRUCTURAL COMPONENTS IN THE SHAPE OF PLATES WITH THE AID OF EXPLOSIVES 67-01 M08-58283
USE OF EXPLOSIVES IN SHEET METAL FORMING 67-02 M08-59131
HYDROMECHANICAL STAMPING PROCESS 67-02 M06-59141
THE COLD NECKING OF 3 TO 9 MM THICK SHEETS AND TUBES --2-- 67-02 M08-59807
DEFORMING METAL BY PULSING MAGNETIC FIELD 67-02 M08-59820
PERMEABLE SHEET METAL AND METHOD OF MAKING SAME 67-02 M08-60938
SHEET PROCESSING TECHNOLOGY 67-02 M08-62199
THE EFFECT OF ANISOTROPY AND WORK-HARDENING CHARACTERISTICS ON THE STRESS AND STRAIN DISTRIBUTION IN DEEP DRAWING 67-03 M07-65940
RESEARCH ON THE FORMABILITY AND TESTING METHOD OF DEEP DRAWING STEEL SHEET 67-03 M08-65818
STUDY OF DEFORMATION DURING STAMPING OF BATH TUBS FROM 08SKVG SHEET STEEL 67-04 M07-66081
USING THE FLOW RULE IN ANALYZING THE PROCESSES OF SHEET METAL STAMPING 67-04 M08-67039
THE DEFORMATION OF SHEET METAL THROUGH UNDERWATER SPARK DISCHARGES 67-04 M08-67060
ONE PRESS--MANY TALENTS 67-05 M07-68811
SURFACE ROUGHNESS OF LOW-CARBON LIGHT GAGE COLD ROLLED STEEL AND ITS EFFECT ON THE STAMPING-DRAWING PROCESS 67-05 M08-69696
THE ELECTROHYDRAULIC EFFECT AND ITS APPLICATION IN DEFORMATION TECHNOLOGY 67-06 M07-70223
FORMING METAL PARTS BY EXPANSION 67-06 M07-70471
OPTIMUM CONDITIONS FOR COLD ROLLING SHEETS 67-06 M07-70943
HYDROMECHANICAL DRAWING 67-06 M07-71899
SPINNING, SHEAR FORMING AND FLOW FORMING 67-06 M07-71900
DISTRIBUTION OF NORMAL STRESSES ON THE CONTACT SURFACE WHEN UPSETTING THIN PIECES 67-06 M08-70280
A METHOD OF STUDYING BULGING FORCES IN SHEET STAMPING 67-06 M08-70282
THE DRAWING OF DEEP, CONE-SHAPED BODIES ON A MULTIPLE-DIE PRESS 67-06 M08-71563
THE ASEA-SAAB FLUID-FORMING METHOD AND EQUIPMENT 67-06 M08-72050
THE EFFECTS OF LUBRICATION ON THE PRESS FORMING LIMITS OF SHEET METALS 67-06 M08-72263
HIGH-ENERGY-RATE SHEET-METAL FORMING 67-07 M07-72999
BENDING OF FINE AND MEDIUM-GRADE SHEETS 67-07 M08-74019
SURFACE ROUGHNESS OF LOW-CARBON COLD-ROLLED SHEET STEEL AND THE EFFECT OF ROUGHNESS ON THE STAMPING-ELONGATION PROCESS 67-07 M08-74082
CUTTING THICK PLATE 67-08 M07-75947
PUNCHING HARDENED SHEET STEEL 67-08 M08-74557
CORRUGATING COMPONENTS OF SHEET ALUMINIUM STRUCTURES AS A MEANS OF REPRODUCING WELDING DEFORMATIONS 67-08 M08-74776
STABILITY OF THE DRAWING PROCESS IN PLASTIC SHAPING OF ANISOTROPIC METAL 67-08 M08-75484
SURFACE QUALITY OF A COLD ROLLED SHEET OF RIMMED STEEL 67-09 M04-77628
JOUVENCEL.. A ZERO CARBON STEEL 67-09 M07-77108
THE TESTING OF SHEET METAL FOR PRESS-WORK 67-09 M08-77512
CORRECT DESIGN IN SHEET METALWORKING 67-09 M08-77940
TECHNICAL CONTROL OF THE PRODUCTION OF SHEETS WITH A MAT SURFACE USED FOR DEEP DRAWING 67-10 M08-79739
FORMING TITANIUM IN ONE STEP 67-11 M08-81361
ELECTRON MICROSCOPIC OBSERVATION ON THE RECRYSTALLIZATION OF THE HEAVILY ROLLED SHEET OF 7-3 BRASS 67-11 M14-81063
CLASSIFICATION OF COLD ROLLED SHEETS 67-12 M08-82388
RECENT DEVELOPMENTS IN SHEET-METAL FORMING 67-12 M08-82657
RESEARCH RESULTS CONCERNING ELECTROHYDRAULIC FORMING 67-12 M08-82925
STRETCH-DRAW FORMING OF SHEETS ON A UNIVERSAL PRESS IN THE AERONAUTICS INDUSTRY 67-12 M08-83378
STRETCH-DRAW FORMING OF ELEMENTS OF DIVERSE SHAPES IN THE AERONAUTICS INDUSTRY 67-12 M08-83379

SHEET /METAL/, MICROSTRUCTURE
RELATIONSHIP OF MICROSTRUCTURE TO SOME MECHANICAL PROPERTIES OF TI-8AL-1V-1MO 67-04 M14-66924
RELATION BETWEEN THE DISTRIBUTION OF TINY INCLUSIONS IN RIMMED MILD STEEL SHEET AND THE RECRYSTALLIZED GRAIN SIZE 67-09 M13-78244
GRAIN GROWTH OF RIMMED MILD STEEL SHEET UNDER THE DISTRIBUTION OF SPHERICAL INCLUSIONS OF DIFFERENT SIZES 67-09 M14-78243

SHEET /METAL/, NONDESTRUCTIVE TESTING
EXCITATION OF LAMB WAVES IN THICK PLATES BY ULTRASONIC IMPULSES 67-03 M19-65602
A METHOD OF INSPECTING THIN SHEETS BY NORMAL WAVES 67-04 M19-67038
THE CONTINUOUS ULTRASONIC TESTING OF HOT ROLLED STRIP 67-07 M19-72681
EXCITATION CONDITIONS FOR LAMB WAVES IN THICK PLATES BY MEANS OF ULTRASONIC PULSES 67-08 M19-74527
PROCEDURE FOR THE INSPECTION OF THIN SHEET WITH NORMAL MODES 67-09 M19-78068

SHEET /METAL/, PAINTING
ASSEMBLY LINES FOR PAINTING 67-01 M12-58433

SHEET /METAL/, PHASE TRANSFORMATIONS
THE SHEET-TEXTURE OF FE-30.2 WT PER CENT NI ALLOY 67-09 M14-77253

SHEET /METAL/, REFINING
AN IMPROVED METHOD FOR MAKING STARTING SHEETS FOR ELECTROLYTIC COPPER REFINING 67-03 M03-65086

SHEET /METAL/, ROLLING
HIGH-SPEED COLD ROLLING OF LOW-CARBON STEEL SHEET AS A FUNCTION OF LUBRICANT TYPE 67-01 M07-58091
DISCREPANCY IN THICKNESS OF TWO-LAYERED SHEET 67-01 M07-58287
COMPUTER ROLLS HOT SHEETS 67-02 M07-59002
METHOD FOR MAKING BIDIRECTIONAL IRON-ALUMINIUM ALLOY MAGNETIC SHEET 67-02 M07-60949
ASPECTS OF THE MANUFACTURE OF COLD-ROLLED STEEL SHEET OF LOW-YIELD STRENGTH 67-02 M07-61654
HEAT CONDITIONS IN ROLLS DURING OPERATION OF COLD ROLLING SHEET MILL 67-02 M07-61746
ESTIMATING ROLLER WEAR IN SHEET STEEL ROLLING MILLS 67-04 M07-66084
THE SLIP LINE FIELD IN ROLLING OF THICK STRIP 67-04 M07-67610
FABRICATION AND EVALUATION OF LARGE THIN-GAGE BERYLLIUM SHEET FROM CAST INGOTS 67-04 M07-67885
EFFECT OF TECHNOLOGICAL PARAMETERS ON THE DEFORMATION OF METAL AND YIELD IN ROLLING CONTINUOUS CAST FLAT INGOTS 67-05 M07-68328
CHANGES IN SPECIFIC PRESSURE DURING DEFORMATION OF THICK SHEETS 67-05 M07-69602
SOME WAYS OF IMPROVING THE SURFACE QUALITY OF COLD ROLLED SHEET 67-05 M08-68327
HOT SHEET-ROLLING MILL UNDER COMPUTER CONTROL 67-06 M07-70249
THEORETICAL STUDY OF THE UNEVENNESS OF DEFORMATION IN COLD LIGHT-GAGE SHEET ROLLING 67-06 M07-70284
CALCULATION METHOD FOR HOT ROLLING OF STEEL SHEET AND STRIP 67-06 M07-70809
INFLUENCE OF TECHNOLOGICAL PARAMETERS ON METAL DEFORMATION AND YIELD OF SOUND OUTPUT IN ROLLING FLAT INGOTS FROM CONTINUOUS CASTING 67-07 M07-72856
IMPROVING SURFACE QUALITY OF COLD-ROLLED SHEET 67-07 M08-72855
CONSTRUCTING A MATHEMATICAL MODEL OF THE SHEET ROLLING PROCESS. PT. 3 67-08 M07-74332
INTER-ROLLER PRESSURE AND ROLL CAMBER IN FOUR-HIGH MILLS 67-08 M07-74335
THE APPLICATION OF LARGE RIMMING STEEL INGOT TO COLD ROLLED DEEP DRAWING STEEL SHEET 67-08 M07-75802
EFFECT OF ROLL STAND RIGIDITY ON LENGTHWISE THICKNESS VARIATION OF STRIP 67-08 M07-76277
ROLLING KHN67VMTYU ALLOY PLATES 67-09 M07-76976
PERIODIC SURFACE FINISH AND TORQUE EFFECTS DURING COLD STRIP ROLLING 67-09 M07-77511
SHEET ROLLING IN EP487 ALLOY 67-09 M07-77633
REASONS FOR THE EFFECT OF THE ROLLING SPEED ON THE COEFFICIENT OF FRICTION DURING COLD ROLLING WITH

LIQUID LUBRICANTS 67-09 M07-77759
COLD ROLLING OF STEEL SHEET 67-10 M07-78391
IMPROVEMENT OF PRECISION OF SHEET ROLLING ON A CONTINUOUS MILL 67-10 M07-78429
LONGEVITY OF COLD ROLLING ROLLS AND QUALITY OF THIN SHEET PRODUCTS 67-10 M07-78431
INFLUENCE OF RIGIDITY OF WORKING STAND ON NON-UNIFORMITY IN LONGITUDINAL THICKNESS OF STRIP 67-10 M07-79270
MANUFACTURE OF EXTRA-THIN SHEET IRON AT THE ZAPOROZHSTAL WORKS 67-10 M07-79811
EFFECT OF THE DEFORMATION ON THE CROSS-SECTIONAL THICKNESS TOLERANCE OF MILD STEEL STRIP 67-10 M07-79813
DISTRIBUTION OF INTERNAL DEFECTS IN COLD ROLLED 08KPVG STEEL SHEET CAPPED IN VARIOUS WAYS IN THE MOLDS 67-10 M07-79815
SURFACE FINISH ON COLD-ROLLED RIMMING STEEL SHEET 67-11 M04-80916
ROLLING SHEETS OF EP 487 ALLOY 67-11 M07-80921
DETERMINING CROSSWISE THICKNESS VARIATION OF SHEETS WHEN ROLLING ON FOUR-HIGH WALLS 67-12 M07-81713
QUALITY CONTROL IN AN ALUMINUM SHEET MILL 67-12 M07-82071
HOT ROLLING OF STEEL PRODUCTS FOR THE AUTOMOBILE INDUSTRY, WITH HIGH QUALITY AND DIMENSIONAL TOLERANCE 67-12 M07-82387
HIGHER DIMENSIONAL ACCURACY IN ROLLING SHEET ON THE CONTINUOUS MILL 67-12 M07-83427
SERVICE LIFE OF ROLLS FOR COLD-ROLLING MILLS AND QUALITY OF THIN SHEET PRODUCTION 67-12 M07-83429
ULTRASONICS INVESTIGATED AS A MEANS TO REDUCE ROLLING FORCES 67-12 M07-83596

SHEET /METAL/, SPLITTING
SCROLL SLITTING SAVES METAL FOR STAMPING OPERATIONS 67-06 M08-70688

SHEET /METAL/, STRAIGHTENING
EFFECT OF SHORT HEATING PERIODS ON THE MECHANICAL PROPERTIES OF 20S SHEET STEEL 67-04 M17-67969

SHEET /METAL/, SUPERCONDUCTIVITY
THE NATURE OF CURRENT-INDUCED TRANSITIONS IN TYPE II SUPERCONDUCTORS ABOVE HC2 67-10 M16-79363

SHEET /METAL/, SURFACE FINISHING
REDUCING DEFECTS IN STEEL SHEETS 67-06 M07-72253
MECHANIZED DRESSING OF HEAVY-GAGE SHEETS 67-12 M08-81872

SHEET /METAL/, SURFACE PROPERTIES
MEASUREMENT OF SURFACE TOPOGRAPHY IN THE FIELD OF ROLLING AND DEEP DRAWING 67-08 M19-75134

SHEET /METAL/, WARPAGE
NOTCH SENSITIVITY AND CRACK SUSCEPTIBILITY OF ATSM, ATSMU AND AM ALLOYS AND OF THEIR WELDED JOINTS 67-04 M17-67146

SHEET /METAL/, WELDING
MEASURES TO REDUCE DEFORMATIONS TAKING PLACE IN SHEET METAL SHIP SUPERSTRUCTURES DURING WELDING 67-01 M11-57159
ON THE WELDING OF STEELS WITH LIMITED WELDABILITY. EXAMPLES FOR MATERIALS PROBLEMS 67-01 M11-58114
PLUG WELDING IN CO2 67-02 M11-59526
PROJECTIONS FOR WELDING 67-02 M11-59583
AUTOMATIC AND SEMIAUTOMATIC CO2 WELDING 67-02 M11-59846
DOUBLE-SPOT WELDING OF HOT ROLLED METAL WHICH IS COVERED WITH SCALE 67-02 M11-62171
IMPROVING THE PROPERTIES OF WELDED JOINTS IN VNS2 STEEL 67-02 M17-60010
WELDING GALVANIZED TUBES TO CARBON STEEL TUBE SHEET 67-03 M11-65300
WELDING OF APPARATUS FROM TI-CLAD BIMETALS 67-04 M11-66347
CO2 SHIELDED ELECTRIC PLUG WELDING 67-04 M11-66475
INVESTIGATION OF THE FORM OF THE ELECTRODE SHAPE IN SPOT WELDING OF ALUMINUM ALLOYS 67-04 M11-66807
RESISTANCE WELDING OF A VAD23 ALLOY 67-04 M11-66830
ARGON ARC WELDING OF HEAT RESISTANT SAP 67-04 M11-66837
SOME PROBLEMS IN SPOT WELDING OF STRUCTURAL UNITS 67-04 M11-67009
PLUG WELDING WITH POWDER WIRE 67-04 M11-67012
SEMIAUTOMATIC CO2 WELDING OF SHEET STRUCTURES WITH SPOT CORNER SEAMS 67-04 M11-67013
FLASH-BUTT WELDING OF HIGH-AUSTENITIC SHEET STEELS 67-04 M11-67014
THE MANUAL AND AUTOMATIC TIG WELDING OF THIN CU SHEETS 67-04 M11-67078
CONSUMABLE ELECTRODE GAS SHIELDED WELDING OF STEEL 67-04 M11-67138
TEE TWIN SPOT WELDING OF HOT ROLLED METAL COATED WITH SCALE 67-04 M11-67172
CO2 WELDING OF A TRACTOR FRAME 67-04 M11-67814
THERMOCRUCIBLE WELDING CONNECTIONS TO EARTHING DEVICES 67-04 M11-67937
EFFECT OF THE PARAMETERS AND PRECISION OF JOINT ASSEMBLY ON FORMATION OF GIRTH WELDS 67-05 M11-69403
CRYSTALLIZATION OF MOLTEN POOL IN WELDING LIGHT-GAGE METALS 67-05 M11-69405
WELDING WITH AN ARC ROTATING IN A MAGNETIC FIELD 67-05 M11-69412
DETERMINATION OF THE BENDING MOMENT DURING ROLL FORMING OF SKELP FOR ELECTRICALLY LINE WELDED LARGE-DIAMETER PIPES 67-06 M08-70748
SPOT ARC WELDING AND SPOT RESISTANCE WELDING OF THERMALLY STRENGTHENED VT14 TITANIUM ALLOY 67-06 M11-70020
CO2 WELDING OF A TRACTOR CHASSIS 67-06 M11-70314
A REMARKABLE ASSEMBLY--A BUBBLE CHAMBER ENVELOPE OF C. E. N. DESACLAY 67-06 M11-70576
PECULIARITIES OF SPOT WELDING OF CLADDINGS AND VARIOUS LIGHT METAL ALLOYS 67-06 M11-71849
SEAM WELDING OF TINNED SHEET IRON UNDER SHIELDING GAS 67-07 M11-72416
MULTIELECTRODE PLUG WELDING 67-07 M11-72737
ARGON SHIELDED PULSE WELDING OF TITANIUM ALLOYS OF SMALL THICKNESS 67-07 M11-72739
THE CONTROL OF WELDING TIME IN RELATION TO THE PATTERN OF RESISTANCE BETWEEN ELECTRODES 67-07 M11-72712
INFLUENCE OF THE ROLLING TEXTURE ON COLD WELDING OF ALUMINUM 67-08 M11-74372
SPOT WELDING OF NONDESCALED HOT ROLLED SHEET STEEL 67-08 M11-74375
APPLICATION OF A COMBINED WELDING-BRAZING PROCESS FOR WELDED STRUCTURES 67-08 M11-74377
SOME ASPECTS OF SPOT WELDING IN STRUCTURAL ENGINEERING 67-08 M11-74768
ARC SPOT WELDING WITH A CORED ELECTRODE 67-08 M11-74771
SEMI-AUTOMATIC CO2 WELDING WITH FILLET SPOT WELDS IN SHEET METAL STRUCTURES 67-08 M11-74772
FLASH WELDING OF AUSTENITIC SHEET STEELS 67-08 M11-74773
THE SHAPE OF ELECTRODES FOR SPOT WELDING ALUMINIUM ALLOYS 67-08 M11-75911
ARGON ARC WELDING OF AMG6N ALUMINUM ALLOY SHEET 67-09 M11-76989
POROSITY IN ARGON ARC WELDING THIN SHEET WELDED JOINTS IN KH18N10T STEEL 67-09 M11-77610
RESISTANCE SPOT WELDING OF THIN GALVANIZED STEEL SHEETS 67-09 M11-77657
EFFECTS OF WELDING CONDITIONS AND ACCURACY ON THE FORMATION OF UNRESTRAINED WELDS 67-10 M11-78507
PRIMARY CRYSTALLIZATION OF THE MOLTEN METAL POOL WHEN WELDING THIN METAL 67-10 M11-78509
WELDING WITH AN ARC ROTATED IN A MAGNETIC FIELD 67-10 M11-78516
SPOT WELDING COATED AND DISSIMILAR LIGHT ALLOYS 67-11 M11-80881
CERTAIN CHARACTERISTICS OF ELECTROSLAG WELDING OF STEEL OF SMALL THICKNESSES 67-12 M11-81918
INFLUENCE OF ROLLING TEXTURE ON THE COLD WELDING CONDITIONS FOR ALUMINIUM 67-12 M11-82245
SPOT WELDING OF HOT-ROLLED SHEET STEEL WITHOUT DESCALING 67-12 M11-82248
USE OF BRAZE WELDED SPOT AND SEAM JOINTS IN STRUCTURES 67-12 M11-82250
MULTI-ELECTRODE ARC SPOT WELDING 67-12 M11-82316
PULSED ARGON ARC WELDING OF THIN TITANIUM ALLOYS 67-12 M11-82318

SHELF LIFE
STRUCTURE AND CONSTITUTION OF THE TIN-PLATE ALLOY LAYER 67-07 M12-73326

SHELL /STRUCTURAL FORMS/, WELDING
WELDING FLANGES TO A SPHERE IN AMG6 ALLOY 67-04 M11-67816

SHELL CASTING

SHELL CASTING

SEE SHELL MOLD CASTING
SHELL MOLD CASTING
CAST DIES FOR AUTO FORGINGS 67-01 M06-58725
X-RAY MOTION PICTURES LOOK INTO CASTINGS 67-03 M06-65481
CAST DIES FOR CAR PART FORGINGS 67-03 M06-65675
NEW FOUNDRY TECHNIQUES FOR PRODUCING LIGHT ALLOY PREMIUM CASTINGS 67-05 M06-69108
THE APPLICATION OF THE SHELL MOLDING PROCESS TO THE PREPARATION OF CORES FOR HEAVY-METAL CASTINGS 67-07 M06-72490
WEAR-RESISTANT CYLINDER SLEEVES 67-07 M06-74051
SHELL MOLDING OF BRASS 67-09 M06-77232
CASTING COPPER ALLOYS INTO SHELL MOLDS OF METALLIC SAND 67-12 M06-81982
SHELL MOLD CASTINGS, THERMAL PROPERTIES
SHELL MOLD CASTINGS RESIST HEAT AND CORROSION 67-05 M06-68424
SHELLS /STRUCTURAL FORMS/, FORMING
HEMISPHERE FORMING SMOOTHER VIA FLUID METHOD 67-05 M07-68802
CALCULATING THE FORCES FOR STAMPING THE CENTER PART OF A BOTTOM USING A SPHERICAL PUNCH AND DIE 67-08 M08-75486
SHELLS /STRUCTURAL FORMS/, MECHANICAL PROPERTIES
THE BUCKLING BEHAVIOR OF UNIFORMLY HEATED THIN CIRCULAR CYLINDRICAL SHELLS 67-01 M17-57542
ELECTROFORMING THIN SHELLS FOR EXPERIMENTAL STUDIES 67-07 M12-73132
THE CREEP OF SPHERICAL SHELLS CONTAINING DISCONTINUITIES 67-09 M17-76450
SHELLS /STRUCTURAL FORMS/, METAL WORKING
EXPLOSIVE FORMING OF SHELL BOTTOMS 67-02 M08-60677
DRAWING THICK ALUMINUM SHELL 67-03 M07-65038
THIN BOOSTER WALLS YIELD PAYLOAD HIKE 67-03 M08-65116
DEEP DRAWING THICK ALUMINIUM 67-05 M08-68934
SHELLS /STRUCTURAL FORMS/, WELDING
RECLAIMING PIECES BY DOUBLE-ELECTRODE BUILD-UP USING POWDER WIRE IN CO2 67-03 M11-65057
WELDING AN EXPERIMENTAL VACUUM APPARATUS MADE OF AT3 TITANIUM ALLOY 67-03 M11-65061
PRE-STRESSING IN MULTILAYER DRUMS DURING ARC WELDING 67-04 M11-66473
WELDING CIRCULAR SEAMS IN ALUMINUM ALLOY SHELLS 67-04 M11-67806
SOME ASPECTS OF THE WELDING OF CIRCUMFERENTIAL SEAMS IN ALUMINIUM ALLOY VESSELS 67-06 M11-70306
WELDING FLANGES TO A SPHERE OF AMG6 ALLOY 67-06 M11-70316
BUILDING UP BY TWO-ELECTRODE CO2 SHIELDED HARDFACING WITH POWDER FILLED WIRE 67-07 M11-73979
WELDING AN EXPERIMENTAL VACUUM APPARATUS IN AT3 TITANIUM ALLOY 67-07 M11-73981
SHERARDIZING
SOME PROMISING PROCESSES TO PROTECT SINTERED IRON AND STEEL AGAINST CORROSION 67-07 M18-73230
SHERRITT PROCESS
SEE CONTINUOUS COATING
ELECTROPLATING
GALVANIZING
ZINC PLATING
SHIELDED ARC WELDING
SEE ALSO ARC SEAM WELDING
ARC SPOT WELDING
GAS METAL ARC WELDING
INERT GAS WELDING
PLASMA ARC WELDING
SHIELDED METAL ARC WELDING
SUBMERGED ARC WELDING
WARPING OF EDGES IN WELDING THIN SHEET MATERIALS 67-01 M11-57371
ARGON-ARC WELDING OF KH14G14N3T STEEL 67-01 M11-57376
THE EFFECT OF HYDROGEN ON PORE FORMATION IN ARGON ARC WELDING OF TITANIUM 67-01 M11-57524
AUTOMATIC WELDING OF KH5M-U STEEL PIPES 67-01 M11-57531
INERT GAS WELDING OF ROTATING AND NONROTATING BUTTS OF A VIAL TYPE ALLOY PIPES 67-01 M11-57533
HEAT PROPAGATION DURING FUSION WELDING OF ALUMINUM TO COPPER 67-01 M11-58269
FUSION WELDING OF ALUMINUM WITH COPPER 67-01 M11-58277
WELDING OT4-2 TITANIUM ALLOY 67-01 M11-58282
RAILROAD OVERPASS DEPENDS ON HIGH-STRENGTH STEEL 67-01 M11-58757
VIBRATION WELD-SURFACING 67-01 M12-57203
QUALITY CONTROL PROCEDURES FOR WELDED FEED HEATERS 67-01 M19-57976
CONTRIBUTION TO THE CO2 WELDING OF PLATES HAVING A PRODUCTION COATING OF PAINT 67-02 M11-59039
AUTOMATIC ARGON-ARC WELDING OF ALUMINUM ALLOYS 67-02 M11-59520
WELDING VACUUM-TIGHT ANGLE JOINTS IN AMG6 ALLOY 67-02 M11-59523
A TUNGSTEN ELECTRODE FOR THE ARGON TUNGSTEN ARC WELDING OF METALS 67-02 M11-59800
EXPERIENCE GAINED IN THE AVOIDANCE OF DEFECTS IN THE TIG AND MIG WELDING OF AL 67-02 M11-59814
REPAIR OF ALUMINIUM PATTERNS BY ARGON ARC WELDING 67-02 M11-60015
PROPERTIES OF TUNGSTEN ELECTRODES USED IN TIG WELDING 67-02 M11-60102
CO2 ARC WELDING OF SHIP HULLS 67-02 M11-60130
NEW GUNS FOR ARGON ARC WELDING OF TITANIUM PARTS 67-02 M11-60135
INSURING THE CONSTANCY OF THE HEAT CONDITIONS IN ARGON ARC WELDING CIRCULAR SEAMS 67-02 M11-60830
IMPROVING THE PRODUCTIVITY OF CO2 WELDING 67-02 M11-60834
INFLUENCE OF HYDROGEN ON PORE FORMATION DURING THE ARGON ARC WELDING OF TITANIUM 67-02 M11-61143
AUTOMATIC WELDING OF TUBES MADE OF KH5M-U STEEL 67-02 M11-61150
GAS SHIELDED WELDING OF BUTT JOINTS BETWEEN AVIAL TUBES 67-02 M11-61152
WELDING THIN-WALLED STAINLESS STEEL TUBES BY BUTT SPIRAL SEAMS 67-02 M11-61269
SOME CAUSES FOR DECREASE IN PLASTICITY OF VT15 TI ALLOY WELDED JOINTS AFTER QUENCHING 67-02 M11-62162
A COMBINATION METHOD OF WELDING THE BUTTS OF STEEL PIPES 67-02 M11-62169
TENSILE STRENGTH OF AL AND AL-MG LAP WELDMENTS 67-02 M17-59172
IMPROVING THE PROPERTIES OF WELDED JOINTS IN VNS2 STEEL 67-02 M17-60010
WELDING AMG61 ALLOY IN HELIUM 67-03 M11-65051
GAS SHIELDED ARC WELDING WITH SOLID FLUX-CORED TUBULAR WIRE 67-03 M11-65446
MECHANICAL PROPERTIES OF SEAMS MADE BY VARIOUS METHODS OF MULTILAYER WELDING 67-04 M11-66438
THE USE OF AL AND AL-ALLOYS IN EQUIPMENT BUILDING AND IN THE CHEMICAL INDUSTRY 67-04 M11-66723
PROPERTIES OF WELDED JOINTS IN HEAT RESISTANT STAINLESS STEELS 67-04 M11-66802
SOME FEATURES OF WELDING TITANIUM WITH NONCONSUMABLE ELECTRODE USING FLUX 67-04 M11-66803
ARGON ARC WELDING OF HEAT RESISTANT SAP 67-04 M11-66837
CONSUMABLE ELECTRODE GAS SHIELDED WELDING OF STEEL 67-04 M11-67138
CAUSES OF REDUCTION IN DUCTILITY OF WELDED JOINTS IN VT15 ALLOY AFTER QUENCHING 67-04 M11-67169
A COMBINED METHOD OF MAKING BUTT WELDS IN STEEL PIPING 67-04 M11-67173
CERTAIN POWER PARAMETERS OF THE ARGON SHIELDED ARC FROM A CONSUMABLE ELECTRODE 67-04 M11-67351
FUSION WELDING ALUMINIUM TO COPPER 67-04 M11-67358
WELDING OT4-2 TITANIUM ALLOY 67-04 M11-67363
CO2 WELDING OF SHIPS HULL STRUCTURES 67-04 M11-67670
TORCHES FOR THE TIG WELDING OF TITANIUM PRODUCTS 67-04 M11-67675
CHOOSING THE CONTROLLED ATMOSPHERE AND CALCULATING OPTIMUM SHIELDING CONDITIONS IN WELDING 67-04 M11-67808
CO2 WELDING OF A TRACTOR FRAME 67-04 M11-67814
MAINTENANCE OF CONSTANT THERMAL CONDITIONS DURING ARGON ARC WELDING OF PIPES 67-04 M11-67987
INCREASING THE OUTPUT RATE OF CO2 SHIELDED ARC WELDING 67-04 M11-67991
FATIGUE STRENGTH OF WELDED JOINTS FOR PIPE

CONNECTORS 67-04 M17-66462
SPIRAL BUTT WELDS IN THIN WALLED STAINLESS STEEL TUBES 67-05 M11-68269
WELDING WITH AN ARC ROTATING IN A MAGNETIC FIELD 67-05 M11-69412
PREVENTING OXIDE INCLUSIONS IN WELDED JOINTS OF AMG6 ALLOY 67-05 M11-69415
TRENDS IN ALUMINIUM FABRICATION 67-05 M20-69544
SELECTION OF CONTROLLED ATMOSPHERES AND THE CALCULATION OF OPTIMUM SHIELDING CONDITIONS FOR WELDING 67-06 M11-70308
CO2 WELDING OF A TRACTOR CHASSIS 67-06 M11-70314
PHYSICAL CHARACTERISTICS OF THE ARC UNDER CONDITIONS OF INTENSIVE EVAPORATION OF ZINC FROM THE WELDING POOL --IN WELDING BRASS-- 67-06 M11-70387
ARGON-AIR MIXTURE 67-06 M11-70734
AUTOMATIC WELDING OF OKH13 STEEL IN CO2 67-06 M11-71850
AUTOMATIC WELDING WITH ADDITION OF IRON PELLETS 67-06 M11-71853
INFLUENCE OF THE TEMPERATURE OF METAL DROPS AND KINETICS OF ELECTRODE FUSION ON NITROGEN SATURATION OF WELD METAL 67-06 M11-72304
WELDING OF HIGH-PRESSURE PIPELINES WITHOUT INSERT RINGS 67-06 M11-72314
HEAT CONTENT OF ELECTRODE METAL DROPLETS DURING SHIELDED ARC WELDING 67-06 M15-71843
THE MECHANICAL PROPERTIES OF MULTI-PASS WELDS 67-07 M11-72697
SPECIFIC HEAT ENERGY OF ARC IN SOME WELDING PROCESSES WITH CONSUMABLE ELECTRODES 67-07 M11-72732
CONCERNING THE SELECTION OF ADDITIONAL HEATING PARAMETERS FOR WELDED THIN SHEET VL-1D STEEL 67-07 M11-72733
DECREASING THE RESIDUAL DEFORMATIONS DURING ARC WELDING OF THERMALLY STRENGTHENED STEELS 67-07 M11-72734
HELIUM ARC WELDING OF AMG61 ALLOY 67-07 M11-73971
THE BEHAVIOR OF WELDING ELECTRODES AND INERT GASES IN WELDING 67-08 M11-74929
HEAT BALANCE IN WELDING WITH A PULSED LOW-AMPERE ARC 67-08 M11-75404
THE OPEN AIR WELDING OF TITANIUM 67-08 M11-75752
THE PROPERTIES OF WELDED JOINTS IN HEAT-RESISTANT STAINLESS STEELS 67-08 M11-75906
WELDING TITANIUM WITH A NONCONSUMABLE ELECTRODE USING FLUXES 67-08 M11-75907
SHIELDED ARC WELDING WITH CO2, USING VERY THIN TUBULAR WIRES 67-08 M11-76151
ARGON ARC WELDING OF AMG6N ALUMINUM ALLOY SHEET 67-09 M11-76989
STUDY OF THE WELDING PROPERTIES OF SV-08G2S WIRE OF CONVERTER PRODUCTION 67-09 M11-77609
POROSITY IN ARGON ARC WELDING THIN SHEET WELDED JOINTS IN KH18N10T STEEL 67-09 M11-77610
THE PHYSICAL PECULIARITIES OF THE ARC ACCOMPANYING INTENSE EVAPORATION OF ZINC FROM THE MOLTEN POOL --IN THE WELDING OF BRASS-- 67-09 M11-78087
WELDING HIGH-PRESSURE PIPELINE UNDER FIELD CONDITIONS 67-09 M11-78123
WELDING OF VESSELS FROM ALUMINUM ALLOY 67-09 M11-78125
ARGON ARC BUTT WELDING OF THIN COPPER STRIPS 67-09 M11-78131
FATIGUE STRENGTH OF WELDED JOINTS BETWEEN DISSIMILAR STEELS 67-09 M17-77237
HYDRODYNAMIC CONTROL OF ARC FUSION DURING CO2-SHIELDED ARC WELDING WITH CONSUMABLE ELECTRODE 67-10 M11-78407
MANUFACTURING CUTTING TOOLS BY DEPOSIT WELDING 67-10 M11-78414
WELDING WITH AN ARC ROTATED IN A MAGNETIC FIELD 67-10 M11-78516
THE ELIMINATION OF OXIDE INCLUSIONS FROM WELDED JOINTS IN AMG6 ALLOY 67-10 M11-78519
APPLICATION OF ELECTRO-GAS WELDING PROCESS TO SIDE SHELL PLATES OF HIGH-SPEED CARGO LINERS 67-10 M11-79492
EFFECTS OF NITROGEN AND HELIUM SHIELDING MIXTURES ON SEMIAUSTENITIC STAINLESS STEEL WELDS 67-10 M11-79952
THE AUTOMATIC CO2 WELDING OF GRADE OKH13 STEEL 67-11 M11-80882
AUTOMATIC WELDING WITH IRON PELLETS ADDED 67-11 M11-80885
THE EFFECTS OF DROPLET TEMPERATURE AND THE KINETICS OF ELECTRIC FUSION ON THE NITROGEN SATURATION OF METAL 67-11 M11-81576
WELDING HIGH PRESSURE PIPING WITHOUT PERMANENT BACKING RINGS 67-11 M11-81586
THE HEAT CONTENTS OF THE DROPLETS OF ELECTRODE METAL IN GAS SHIELDED ARC WELDING 67-11 M15-80875
THE THERMAL BALANCE FOR WELDING WITH PULSED LOW POWER ARCS 67-12 M11-82025
INERT-GAS WELDING OF NONFERROUS METALS 67-12 M11-82077
EFFECTIVE HEAT INPUT WHEN WELDING WITH A CONSUMABLE ELECTRODE 67-12 M11-82311
SECONDARY HEATING IN THE WELDING OF VL-1D STEEL 67-12 M11-82312
REDUCTION OF RESIDUAL DEFORMATIONS WHEN WELDING HARDENABLE STEELS 67-12 M11-82313
WELDING MACHINE INSTALLATIONS FOR WELDING WITH FLUX-CORED WIRES 67-12 M11-82941
WELDING 1KH13M2S2 STEEL WITH OKH18N10T STEEL 67-12 M11-83187
EFFECT OF ANNEALING TEMPERATURE ON AMOUNT OF RESIDUAL STRESSES AND PROPERTIES OF OT4 TI-ALLOY WELDED JOINTS 67-12 M11-83192
PRODUCTION OF CURRENT PULSES FOR GAS-SHIELDED ARC WELDING 67-12 M11-83207
AUTOMATIC WELDING ON VERTICAL SURFACES IN THE OPEN AIR 67-12 M11-83279
INVESTIGATION OF THE WELDING OF ZIRCONIUM ALLOYS 67-12 M11-83281
RESEARCH ON ELECTRIC ARC WELDING AND THE ARCOSAC METHOD OF HARD SURFACING RAILS 67-12 M11-83282
INVESTIGATION OF SECHERON WELDED RAIL JOINTS 67-12 M11-83283

SHIELDED ARC WELDING, AUTOMATIC CONTROL
AUTOMATED WELDING OF LIGHT ALLOY STRUCTURES 67-01 M11-57147
COMBINED CONTACTLESS DIFFERENTIAL DEVICE FOR DIRECTING THE WELDING HEAD ALONG THE BUTT WELD 67-09 M11-78119

SHIELDED ARC WELDING, HEAT TRANSFER
SOME ENERGY PARAMETERS OF THE ARC IN ARGON WITH CONSUMABLE ELECTRODE 67-01 M11-58270

SHIELDED ARC WELDING, IMPURITY EFFECTS
NITROGEN IN WELDING PROCESSES OF STEEL 67-09 M11-76897

SHIELDED INERT GAS METAL ARC WELD
SEE GAS METAL ARC WELDING

SHIELDED METAL ARC WELDING
STAINLESS LININGS BY AUTOMATIC WELDING IN NUCLEAR CONSTRUCTIONS 67-03 M11-65447
CO2 SHIELDED ELECTRIC PLUG WELDING 67-04 M11-66475
WELDING 18 PER CENT NICKEL MARAGING STEEL TO A-201 AND A-242 STEELS 67-04 M11-67627
GAS-SHIELDED STUD WELDING OF MAGNESIUM 67-07 M11-74282
INVESTIGATIONS INTO THE METALLURGICAL PHENOMENA OCCURRING IN WELDING OF CORROSION RESISTANT STEELS USING STICK ELECTRODES WITH ALLOYED COATINGS 67-08 M11-75789
DEVELOPMENT OF PROCEDURES FOR WELDING HY-130 --T-- STEEL 67-09 M11-78147
WHAT ENGINEERS SHOULD KNOW IN DESIGNING WELDED STRUCTURES 67-10 M11-78631

SHIELDING
SEE SHIELDS

SHIELDS
SEE ALSO HEAT SHIELDS
GUIDE TO MIG WELDING PROCESSES 67-07 M11-73304
NOMOGRAMS SOLVE TOUGH PROBLEMS OF SHIELDING 67-07 M20-73222

SHIELDS, MATERIALS
GAS SHIELDING TEST METHODS 67-11 M11-80410

SHIFT /PHASE/
SEE PHASE SHIFT

SHIP ENGINES
SEE MARINE ENGINES

SHIP HULLS
SEE HULLS /STRUCTURES/

SHIP PLATES
SEE PLATE /METAL/

SHIP PROPELLERS
SEE PROPELLERS

SHIPBUILDING

SHIPBUILDING
PRODUCTION OF AL-KILLED STEEL FOR LOW TEMPERATURE USES IN CONVERTER 67-01 M04-58561
MEASURES TO REDUCE DEFORMATIONS TAKING PLACE IN SHEET METAL SHIP SUPERSTRUCTURES DURING WELDING 67-01 M11-57159
CONSUMABLE GUIDE WELDING RESEARCH AT BWRA 67-01 M11-57215
BRITTLE FRACTURES 67-01 M17-58352
WHY COPPER-NICKEL ALLOYS FOR DESALINATION 67-01 M18-57970
DEVELOPMENT OF WELDING PRACTICES IN SHIPBUILDING 67-02 M11-60042
WELDING TECHNOLOGY IN SHIP CONSTRUCTION. PT. 2. ONE-SIDE BUTT WELDING--EQUIPMENT, TOOLS AND TECHNOLOGY 67-02 M11-60983
ROLLING HISTORY IN RELATION TO THE TOUGHNESS OF SHIP PLATE 67-04 M17-66682
ADVANTAGES AND ECONOMICS OF QUENCHED AND TEMPERED WELDABLE HIGH-STRENGTH STEEL 67-06 M08-71327
REQUISITES FOR MANUAL ARC WELDING IN THE SHIP-BUILDING INDUSTRY WITHOUT BEVELING EDGES 67-06 M11-71873
THE USE OF ALUMINIUM-RICH ALLOYS IN SHIPBUILDING 67-06 M20-72256
A MULTIBLE TEST APPROACH TO THE PREDICTION OF WELDMENT CRACKING 67-08 M11-76070
CORROSION OF MECHANICAL JOINTS IN ALUMINIUM AND ALUMINIUM-STEEL STRUCTURES 67-08 M18-74704
QUANTITATIVE EFFECT OF SECTION SIZE ON TRANSITION TEMPERATURE 67-09 M17-77951
ONE-SIDE WELDING IS ON ITS WAY 67-10 M11-80095
WELDING REINFORCING STEELS WITH AN ALLOYED WIRE WITHOUT SHIELDING 67-11 M11-80548
HIGH YIELD SHIP STEELS 67-11 M17-80934
EFFECTIVE HEAT INPUT WHEN WELDING WITH A CONSUMABLE ELECTRODE 67-12 M11-82311
LOW CYCLE FATIGUE STRENGTH OF SHIP STRUCTURAL STEELS 67-12 M17-82923
MATERIALS IN OCEAN ENGINEERING 67-12 M18-82642
CORRUGATED PANEL FOR SHIPS WALL 67-12 M20-82921
FUNDAMENTAL PROPERTIES OF HIGH STRENGTH STEELS 67-12 M20-82922
STRENGTH OF HIGH STRENGTH STEEL STRUCTURE 67-12 M20-82924
STAINLESS STEELS AND CLAD SHEET IN TANKER CONSTRUCTION 67-12 M20-83298
SHIPBUILDING, COATING
LATEST DEVELOPMENTS IN ZINC-RICH PAINTS 67-03 M12-65627
SHIPBUILDING, MATERIALS
ALUMINUM--THE AGE OF SHIPS 67-01 M20-58727
SHIPBUILDING, QUALITY CONTROL
RADIOGRAPHY IN SHIPBUILDING. PT. 1 67-12 M19-83116
SHIPBUILDING, WELDING
CO2 ARC WELDING OF SHIP HULLS 67-02 M11-60130
CO2 WELDING OF SHIPS HULL STRUCTURES 67-04 M11-67670
SPECIFIC HEAT ENERGY OF ARC IN SOME WELDING PROCESSES WITH CONSUMABLE ELECTRODES 67-07 M11-72732
SHIPS
SEE ALSO SUBMARINES
TANKERS /WATERBORNE/
WARSHIPS
SHIPS, CORROSION
CORROSION PROTECTION OF WEATHER DECKS OF NAVAL SHIPS 67-03 M18-65730
ACCELERATED CORROSION OF SHIPS BOTTOM PLATE 67-03 M18-65994
SELECTION OF METALS FOR MARINE APPLICATIONS 67-12 M18-83226
SHIPS, MATERIALS
INVESTIGATION OF CU-NI ALLOYS FOR HEAT EXCHANGERS 67-04 M18-67855
SHIPS, WELDING
WELDING IN U.K. SHIP CONSTRUCTION 67-10 M11-78798
SHOCK
QUANTITATIVE STUDY OF THE SUBSTRUCTURE AND PROPERTIES OF SHOCK-LOADED COPPER 67-12 M13-82860
SHOCK ABSORBERS, POWDER METALLURGY
DEVELOPMENT AND INVESTIGATION OF FRICTION CERMETS FOR SHOCK ABSORBERS 67-06 M09-70769
SHOCK ABSORBERS, WELDING
AN EFFICIENT METHOD TO PRODUCE HYDRAULIC SHOCK ABSORBERS 67-04 M11-67249
SHOCK RESISTANCE
EXPERIMENTAL INVESTIGATION OF THERMAL SHOCK BEHAVIOR IN CAST IRONS 67-01 M17-57596
THE RESISTANCE TO THERMAL SHOCK OF AUSTENITIC AND FERRITIC STEELS --3-- 67-02 M17-59811
INVESTIGATION OF THE HEAT RESISTANCE OF BRITTLE POWDERED-METAL MATERIALS 67-02 M17-59874
THERMODYNAMICS OF SHOCK COMPRESSION OF METALS 67-03 M15-65120
THERMAL SHOCK RESISTANCE OF CAST IRONS 67-04 M17-67260
EFFECT OF THERMAL SHOCKING ON MINCO MODEL S1059 PLATINUM RESISTANCE THERMOMETERS 67-06 M17-70836
STRAIN AGING EFFECTS AND STRESS RELAXATION IN IRON DURING SHOCK LOADING 67-07 M17-73902
EVALUATING THE LONGEVITY CRITERIA OF ALLOYS AT MICROSHOCK LOADING 67-08 M17-74582
CHEMICALLY STRENGTHENED, LEACHED ALUMINA AND SPINEL 67-08 M17-76090
IMPREGNATED TANTALUM CARBIDE 67-11 M05-80249
CHOUSING BUILT-UP METAL WHICH IS RESISTANT TO SHOCK-LOADING 67-11 M11-80553
THE EFFECT OF UNIDIRECTIONAL SOLIDIFICATION ON THE PROPERTIES OF CAST NICKEL-BASE SUPERALLOYS 67-11 M17-81335
MODERN MANUFACTURE OF DIE BLOCKS FOR THE METAL-FORMING INDUSTRIES 67-12 M01-81948
THERMAL SHOCK AND FRACTURE IN CERAMICS 67-12 M17-81898
SHOCK RESISTANCE, COMPOSITION EFFECTS
EFFECT OF THE SILICATE CONSTITUTION OF MAGNESITE BRICKS ON THE HIGH-TEMPERATURE STRENGTH 67-06 M17-70604
SHOCK WAVES
EFFECT OF EXPLOSIVE SHOCK WAVES ON CERAMIC POWDERS 67-03 M09-65653
TWO CASES OF SHOCK-WAVE PROPAGATION IN A METAL 67-04 M15-68011
PROBLEMS RELATING TO THE EXPLOSIVE FORMING OF FERROUS ALLOYS 67-05 M08-69748
SOME ASPECTS OF HIGH ENERGY RATE FORMING RESEARCH AT R. A. R. D. E. 67-05 M08-69759
THE FORMATION OF LATTICE DEFECTS BY SHOCK WAVES 67-05 M13-69157
THE SHOCK LOADING OF AUSTENITIC SINGLE CRYSTALS 67-05 M13-69746
TWINNING IN SHOCK-LOADED METALS AND ALLOYS 67-05 M17-69744
TRANSIENT ELASTIC WAVES IN ANISOTROPIC PLATES 67-06 M17-71714
SHOCK EFFECTS IN SOLIDS 67-07 M15-73115
A FUNDAMENTAL EXPERIMENT IN THE DEFORMATION OF SHEET METAL ROUNDS BY UNDER-WATER CAPACITOR DISCHARGE 67-09 M08-77943
SHOES /BRAKE/
SEE BRAKE SHOES
SHORT ARC WELDING
SEE GAS METAL ARC WELDING
SHORT RANGE ORDER
A SURVEY OF DECOMPOSITION PROCESSES IN SUPERSATURATED FE-27 AT. PER CENT BE 67-03 M14-65083
SHORT-RANGE ORDER IN A GOLD-PALLADIUM ALLOY OF EQUIATOMIC COMPOSITION 67-04 M14-66392
SHORT-RANGE ORDER IN A GOLD-PALLADIUM ALLOY OF EQUIATOMIC COMPOSITION 67-05 M14-68589
DIFFUSION SCATTERING AND SHORT-RANGE ORDER IN ALPHA-CUAL ALLOYS 67-05 M14-69240
ATOMIC ORDERING--SHORT-RANGE ORDER IN ALLOYS 67-05 M14-69725
ON THE KINETICS OF SHORT-RANGE ORDERING IN AUAG --50, 50-- AND CUAL --85, 15-- 67-05 M14-69776
A METHOD FOR DETERMINING SHORT RANGE ORDER IN NICKEL-IRON ALLOYS WITH THE AID OF THE MOSSBAUER EFFECT 67-06 M14-71725
THE RECOVERY KINETICS OF DEFORMED COPPER-PALLADIUM AND GOLD-PALLADIUM ALLOYS 67-07 M14-73909
VACANCY MODELS FOR CONCENTRATED BINARY ALLOYS. PT. 1. SHORT-RANGE ORDERED AND CLUSTERED ALLOYS 67-09 M13-77595
STUDY OF STRUCTURAL SINGULARITIES OF ALLOYS WITH FACE-CENTERED LATTICE. PT. 1. NI-MO SYSTEM 67-09 M13-77771
FIELD ION MICROSCOPY OF NI-MO ALLOYS 67-10 M13-78916
SHORT-RANGE ORDER IN AU-PD ALLOYS OF EQUIATOMIC COMPOSITION 67-10 M13-79912

SLIP-INDUCED DIRECTIONAL ORDER IN FE-NI ALLOYS PT. 2. EXPERIMENTAL OBSERVATIONS 67-10 M14-79165
OBSERVATION OF CRYSTAL FIELDS BY MEANS OF THE MOSSBAUER EFFECT 67-10 M16-78305
COMPARISON OF SPECTRA OF COLD NEUTRON SCATTERING IN AMORPHOUS AND CRYSTALLINE SELENIUM 67-10 M16-79444
AN X-RAY DIFFUSE SCATTERING MEASUREMENT OF LOCAL LOCAL ORDER IN A PD-PT ALLOY 67-11 M14-80183
ORDER-DISORDER PHENOMENA AND SOLID SOLUTIONS 67-11 M14-81110
ORDERING IN DILUTE SOLID SOLUTIONS OF ALUMINUM IN NICKEL 67-11 M14-81355

SHORT RANGE ORDER, ALLOYING EFFECTS
THE CREEP AND FRACTURE PROPERTIES OF SOME NICKEL-CHROMIUM ALLOYS AT 600 C 67-07 M17-72816

SHORT RANGE ORDER, HEATING EFFECTS
SHORT-RANGE ORDER AND K-STATE IN PD-W AND PD-CO ALLOYS 67-02 M14-62093

SHORT RANGE ORDER, RADIATION EFFECTS
ATOMIC DISPLACEMENTS IN IRRADIATED EQUIATOMIC AG-AU 67-08 M14-75823

SHORT RANGE ORDER, TEMPERATURE EFFECTS
TEMPERATURE DEPENDENCE OF SHORT-RANGE ORDER IN BETA-BRASS 67-05 M14-69807

SHOT BLASTING
SEE ALSO SHOT PEENING
CORROSION TEST COUPONS--MECHANICAL CLEANING 67-01 M12-58768
HEAT TREATING CRANKSHAFTS 67-02 M10-59456
CLEAN HOT-ROLLED CARBON STEEL WITHOUT ACID 67-02 M12-61134
COLD-ROLLING WITHOUT ACID PICKLING 67-06 M12-71581
THE WIDENING FIELD OF APPLICATION FOR PNEUMATIC BLASTING 67-06 M12-71800
SHOT-BLASTING PLANT FOR MACHINE TOOL CASTINGS 67-07 M12-73336
FINISHING TECHNIQUES FOR SPECIAL ROLLED STEEL 67-08 M12-75904
INVESTIGATIONS BY SINGLE IMPACT TESTS ON A STEEL BALL AND STEEL PLATE, WITH EMPHASIS ON CRUSHING OF THE BLASTING MEDIA AND WEAR OF THE MATERIAL BLASTED 67-09 M17-77846
GLASS BEAD FINISHING OF DIE CASTINGS 67-10 M12-78464
SANDBLASTING 67-11 M12-80577
ABRASIVES REPLACE ACID IN DESCALING STEEL STRIP 67-12 M12-83136

SHOT PEENING
STUDY ON THE FATIGUE STRENGTH OF ROLLER-CHAIN LINK PLATE. THE EFFECTS OF LINK PLATE FORM, SHOT-PEENED AND FINISHED HOLE 67-02 M17-60660
THE EFFECTS OF SHOT-PEENING ON THE FATIGUE STRENGTHS OF 7075 AND 7076 ALUMINUM ALLOYS 67-02 M17-60661
CAST IRON AND STEEL SHOT --CRUSHED---- ITS MANUFACTURE AND USE 67-02 M20-58997
EFFECT OF PLASTIC STRENGTHENING ON THE HEAT RESISTANCE OF 3KH2V8 DIE STEEL 67-05 M17-68447
A TEST FOR BLAST CLEANING AND PEENING MEDIA 67-06 M12-72247
SHOT-PEENING AIDS FATIGUE LIFE 67-06 M17-71929
SHOT PEENING EMERGES AS A CONTROLLED MANUFACTURING PROCESS. PT. 1 67-08 M12-75707
SHOT-PEENING--EQUIPMENT, SPECIFICATIONS, ECONOMICS. PT. 2 67-09 M12-77696
CONTINUOUS SHOT PEENING CATERS FOR VARYING SECTIONS 67-09 M17-76557
INVESTIGATION OF MULTIPLE IMPACTS BETWEEN STEEL BALLS AND PLATES IN CONNECTION WITH THE SHATTERING OF SHOT-PEENING MEDIA AND STEEL WEAR 67-09 M17-78189
A UNIVERSAL MACHINE FOR TREATING SURFACES BY SHOT-PEENING 67-12 M12-82082

SHOTTING
PRODUCTION OF COMMERCIAL SHOT 67-04 M06-66424

SHRINK FITTING
SHRINK FORMING 67-05 M08-69317

SHRINKAGE
CHARACTERISTICS OF REFRACTORY INSULATING MATERIALS 67-01 M15-58539
SILICON.. CARBON RATIO--HOW IT AFFECTS STRENGTH AND SHRINKAGE OF CAST IRON 67-01 M17-57400
ELECTRICAL MODELING OF THE FORMATION OF A PIPE IN A STEEL INGOT 67-02 M04-61742
PREVENTION OF SHRINKAGE DEFECTS IN THICK SECTIONS AND HOT SPOTS OF HIGH-DUTY IRON CASTINGS 67-02 M06-61010
INFLUENCE OF GREEN MOLD PROPERTIES ON SHRINKAGE OF IRON CASTINGS 67-02 M06-61233
AN ANALYSIS OF SHRINKAGE KINETICS DURING SINTERING OF REDUCED CHROMIUM POWDER 67-02 M09-59605
INVESTIGATION OF THE SINTERING OF ALLOYS OF ZIRCONIUM DIBORIDE WITH MOLYBDENUM DISILICIDE 67-02 M09-60175
ASPECTS OF SHRINKAGE PHENOMENA IN CAST IRON 67-02 M15-61193
CONSUMABLE ELECTROFLUX REMELTING--THE HOPKINS PROCESS. PT. 2 67-03 M04-65472
INFLUENCE OF GREEN MOLD PROPERTIES ON THE SHRINKAGE OF IRON CASTINGS 67-04 M06-68094
INVESTIGATION OF THE SINTERING PROCESS OF METAL-GLASS COMPOSITES 67-04 M09-66254
INVESTIGATION OF THE COMPACTION OF COPPER-TIN CERMET ALLOYS DURING SINTERING 67-04 M09-66255
A FUNDAMENTAL STUDY ON THE CASTING CRACK OF LIGHT METAL ALLOYS. RELATION BETWEEN THE CASTING CONTRACTION STRESS AND THE HOT STRENGTH 67-05 M17-68898
ON THE FEEDING CHARACTERISTIC OF ALUMINUM ALLOYS. PT. 1 67-06 M06-71213
SENSITIVE RESONANT FREQUENCY TECHNIQUE FOR THE STUDY OF SINTERING KINETICS 67-07 M09-72828
SOME OBSERVATIONS ON THE WELDING OF MIXED FABRICATIONS 67-07 M11-73612
MECHANISM OF FORMATION OF CARBON MONOXIDE BLOWHOLES IN INGOTS DURING SOLIDIFICATION. PT. 1. STUDY OF SOLIDIFICATION STRUCTURES OF SEMIKILLED STEEL INGOTS 67-07 M14-72572
PRESHRINKAGE EXPANSION OF IRON IN SEMICONTINUOUS CAST PIPES 67-07 M15-74048
THERMAL EXPANSION OF MOLD MATERIAL AS ONE OF THE CAUSES OF PRESHRINKAGE EXPANSION OF CASTINGS 67-08 M06-75191
THE EFFECT OF THE ENERGY OF INTERNAL DEFECTS IN THE CRYSTAL STRUCTURE AND OF THE SURFACE ENERGY ON THE SHRINKAGE OF SPECIMENS FROM COPPER POWDERS OF DIFFERENT ACTIVITIES 67-08 M09-75465
THE CRYSTALLIZATION PRESSURE FACTOR IN THE PRESHRINKAGE EXPANSION OF CASTINGS 67-08 M14-74550
ALUMINA-BONDED REFRACTORIES 67-09 M05-76454
INITIAL SINTERING OF RUTILE 67-09 M09-76398
SINTERING OF ALLOYS OF ZIRCONIUM DIBORIDE WITH MOLYBDENUM DISILICIDE 67-09 M09-76908
ANALYSIS OF DENSIFICATION KINETICS DURING THE SINTERING OF REDUCED CHROMIUM POWDER 67-09 M09-76923
FOUNDRY DEFECTS--A MEMORANDUM 67-10 M06-79692
DENSIFICATION DURING THE SINTERING OF COPPER TIN POWDER ALLOYS 67-10 M09-78987
LINEAR SHRINKAGE OF MALLEABLE IRON CASTINGS 67-12 M06-82620
PLASTIC STRAINS IN MALLEABLE CAST IRON CASTINGS 67-12 M17-81723

SHRINKAGE, ALLOYING EFFECTS
DETERMINATION OF THE LINEAR PREPEARLITIC SHRINKAGE AS A METHOD FOR THE ESTIMATION OF CASTING QUALITY 67-08 M06-75104

SHRINKAGE, COMPOSITION EFFECTS
ON THE VOLUME CHANGE IN WHITE IRON CASTINGS 67-05 M06-69890

SHRINKAGE, COOLING EFFECTS
SHRINKHOLE PHENOMENA AND TEXTURE FORMATION OF EUTECTIC AL-SI ALLOYS 67-05 M06-68515

SHRINKAGE, POWDER METALLURGY
INVESTIGATION OF SHRINKAGE IN SINTERED CHROMIUM STEEL 67-06 M09-72322

SHRINKAGE, PRESSURE EFFECTS
SHRINKAGE PRESSURE IN CASTINGS--THE SOLIDIFICATION OF A METAL SPHERE 67-06 M14-69925

SHRINKAGE, STRESS EFFECTS
EFFECT OF THE STRESS CONDITION PRODUCED IN THE EXTRUSION VOLUME ON THE SHRINKAGE DURING SINTERING. PT. 1. EFFECT OF HEATING AND COOLING RATES ON SHRINKAGE OF SPECIMENS DURING SINTERING 67-09 M09-76567

SHRINKING
SEE SHRINKAGE

SHUNTS
SEE ELECTRIC CIRCUITS

SIDERITE
PHYSICAL PROPERTIES OF HIGH-MAGNESIAL BLAST FURNACE SLAGS 67-10 M04-79318

SIDERITE, BENEFICIATION
BENEFICIATION OF SIDERITE SANDS BY FLOTATION
67-01 M02-57155
INFLUENCE OF BAKAL SIDERITES ON SINTERING PROCESS INDICES AND SINTER QUALITY 67-08 M02-75709
SIDERITE, REDUCTION /CHEMICAL/
FEATURES OF SIDERITE DISSOCIATION IN THE BLAST FURNACE AND THE INVOLVED HEAT
67-01 M04-58142
BLAST-FURNACE TRIALS ON THE SMELTING OF PREPARED BAKAL SIDERITES PRODUCING HIGH-MAGNESIA SLAGS
67-04 M02-66203
SIDERITE, REFINING
PROBLEMS OF THE SMELTING OF SIDERITE
67-05 M04-69324
SIDERITE, SINTERING
INFLUENCE OF SIDERITE ON SINTERING PROCESS AND QUALITY OF SINTER 67-06 M02-71240
SIDERITE, STEEL MAKING
UTILIZATION OF BAKAL SIDERITES IN BLAST FURNACE PRACTICE 67-10 M04-80078
SIEMENS MARTINS FURNACES
SEE OPENHEARTH FURNACES
SIEVE ANALYSIS
COMPARISON OF PARTICLE SIZE ANALYSIS METHODS
67-05 M19-69572
A NEW TECHNIQUE FOR FRACTIONATING POWDERS
67-06 M09-71799
CHARACTERISTICS OF FINE PARTICLES OF BURDEN MATERIALS AND THE ESCAPE OF BLAST FURNACE DUST
67-09 M04-77357
SIFTING
SEE SCREENING /SIZING/
SIGMA BONDS
SEE CHEMICAL BONDS
SIGMA HARD FACING
SEE GAS METAL ARC WELDING
HARD SURFACING
WELD CLADDING
SIGMA PHASE
HOT ROLLING TEXTURE OF LOW-CARBON STEEL
67-01 M13-58238
MICROSTRUCTURE OF PRECIPITATION STRENGTHENED NICKEL-BASE SUPERALLOYS 67-02 M13-61103
EFFECT OF NIOBIUM ON CRACK INITIATION IN 2KH13L STEEL 67-02 M17-59650
EFFECT OF MOLYBDENUM ON PHASE COMPOSITION AND MICROSTRUCTURE OF CHROMIUM-NICKEL STEELS
67-03 M13-65965
TEMPERING OF QUENCHED FERRITIC-AUSTENITIC CR-NI STEEL 67-04 M17-67985
SIGMA FORMATION IN NICKEL-RICH NICKEL-COBALT-CHROMIUM-ALUMINUM-TITANIUM-CARBON ALLOYS AT 1650 F 67-06 M14-69932
POSITION OF THE TEMPERATURE RANGE OF THE SIGMA PHASE IN FERRITIC CHROMIUM STEELS
67-07 M13-72676
INTERMEDIATE PHASES IN ALLOYS OF TITANIUM WITH IRIDIUM, RHODIUM, AND OSMIUM 67-07 M13-73277
TOPOLOGICALLY CLOSE-PACKED STRUCTURES
67-07 M13-73672
STRUCTURE OF ACID-RESISTING AUSTENITIC CHROMIUM-NICKEL-MOLYBDENUM STEEL X 5 CRNIMO 17 13 AND STRUCTURAL CHANGES 67-07 M14-73025
SUPERCONDUCTIVE PROPERTIES 67-07 M16-73689
WELDABLE AUSTENITIC MATERIALS FOR THE TEMPERATURE RANGE FROM 500 TO 700 C 67-08 M11-74449
PHASE COMPOSITION AND PROPERTIES OF TWO-PHASE OKH21N6M2T STAINLESS STEEL 67-09 M14-77423
EFFECTS OF TITANIUM ON THE PHASE COMPOSITION OF A STAINLESS FERRITIC-AUSTENITIC STEEL
67-10 M18-78922
SELECTING RATIONAL AUSTENITIC CHROMIUM-NICKEL STEELS FOR WELDED STRUCTURES 67-11 M11-80886
IDENTIFICATION OF STRENGTHENING PRECIPITATES IN 18NI --250-- ALUMINUM, VANADIUM AND TITANIUM MARAGING STEELS 67-12 M13-83068
HOT HARDNESS BEHAVIOR OF IRON-CHROMIUM ALLOYS
67-12 M17-83061
SHORT-TIME TENSILE AND LONG-TIME CREEP-RUPTURE PROPERTIES OF THE HK-40 ALLOY AND TYPE 310 STAINLESS STEEL AT TEMPERATURES TO 2000 F
67-12 M17-83240
CORROSION RESISTANT AUSTENITIC-FERRITIC STEEL, OKH20N6MD2T 67-12 M18-83542
SIGMA PHASE, ALLOYING EFFECTS
EFFECTS OF NICKEL ON THE FORMATION OF SIGMA PHASE AND SOME CHANGES OF PROPERTIES IN 25 PER CENT CHROMIUM STEELS 67-02 M14-59978
FORMATION OF SIGMA PHASE IN FE-45 PER CENT CR ALLOYS AND EFFECTS OF MOLYBDENUM ADDITIONS ON ITS DILATOMETRIC PROPERTIES 67-02 M14-59979
THE APPLICATION OF MICROPROBES IN INDUSTRIAL RESEARCH 67-02 M19-59623
SIGMA PHASE, HEATING EFFECTS
CHEMICAL COMPOSITION OF THE SIGMA PHASE AUSTENITIC STAINLESS STEELS CONTAINING MOLYBDENUM
67-11 M19-80575
SIGMA PHASE, MAGNETIC PROPERTIES
THE MAGNETIC PROPERTIES OF SIGMA PHASE ALLOYS
67-01 M15-58669
SIGMA PHASE, PHASE TRANSFORMATIONS
EFFECT OF NICKEL ON THE SIGMA TRANSFORMATION IN FE-45 PER CENT CR ALLOYS 67-01 M14-58329
SIGMA PHASE, PRECIPITATION
PHASE REACTIONS IN B-1900 NICKEL-BASE ALLOY FROM 1600 TO 1800 F 67-01 M14-58467
PRECIPITATION OF --FE, CR-- SIGMA PHASE FROM AUSTENITE 67-02 M14-60629
SIGMA WELDING
SEE GAS METAL ARC WELDING
INERT GAS WELDING
SILICA, BINARY SYSTEMS
ELECTRICAL PROPERTIES OF MELTS OF SIO2-UO2 SYSTEMS
67-04 M15-67106
INVESTIGATION OF THE PHASE TRANSFORMATION KINETICS IN THE COPPER OXIDE-SILICON OXIDE SYSTEM
67-12 M14-82110
SILICA, CASTING
PRECISION CASTING FUSED SILICA RADOMES
67-01 M06-58792
SILICA, CHEMICAL ANALYSIS
THE ABSOLUTE DETERMINATION OF THE THICKNESS AND COMPOSITION OF SURFACE LAYERS WITH A MICROPROBE
67-02 M19-59087
SILICA, COATING
A NITRIC OXIDE PROCESS FOR THE DEPOSITION OF SILICA FILMS 67-06 M12-70665
SILICA, COATINGS
THE DEPOSITION OF THIN SIO2 LAYERS THROUGH THE HYDROLYSIS OF SILICON TETRACHLORIDE
67-06 M12-71196
PROGRESS IN THE PRODUCTION OF THIN OXIDE FILMS FOR OPTICAL AND ELECTRICAL APPLICATIONS
67-08 M12-75178
SILICA, CRYSTAL GROWTH
OXIDE DEPOSITION IN SILICON EPITAXIAL SYSTEMS
67-11 M14-80832
SILICA, ELECTRICAL PROPERTIES
ELECTRICAL CONDUCTIVITY OF SILICON OXIDE
67-06 M16-71026
SILICA, EXTRACTION
METALLURGICAL TESTING OF HAWAIIAN FERRUGINOUS BAUXITES--CONCLUDING REPORT 67-07 M03-74000
SILICA, FIBER METALLURGY
SILICA FIBER REINFORCED ALUMINUM
67-04 M17-67736
SILICA, MECHANICAL PROPERTIES
MODULUS OF RUPTURE OF ALUMINA-SILICA REFRACTORIES AT ELEVATED TEMPERATURES 67-03 M05-65763
SILICA, MICROSTRUCTURE
THE STRUCTURE AND PERFECTION OF THERMALLY GROWN OXIDE FILMS ON SILICON 67-05 M14-68779
SILICA, PHYSICAL PROPERTIES
LOW TEMPERATURE FAR INFRARED SPECTRA OF SIO2 POLYMORPHS 67-11 M13-81685
SILICA, REACTIONS /CHEMICAL/
REACTIONS OF MANGANESE WITH SILICA
67-04 M04-67032
THE EFFECTS OF THE REFRACTORY LINING ON METALLURGICAL REACTIONS IN CORELESS INDUCTION FURNACES 67-05 M04-69323
KINETICS OF SILICA REDUCTION BY CARBON-SATURATED IRON. PT. 2. REDUCTION OF SOLID SILICA BY CARBON IN LIQUID IRON 67-06 M04-70811
REACTION BETWEEN VITREOUS SILICA AND MOLTEN ALUMINUM 67-06 M14-71165
SILICA, REDUCTION /CHEMICAL/
CARBON REDUCTION KINETICS FOR MANGANESE AND SILICON FROM MNO AND SIO2 MIXTURES 67-01 M03-58289
SILICA, SURFACE PROPERTIES
SURFACE EFFECTS OF RADIATION ON SEMICONDUCTOR DEVICES 67-04 M16-66140
SILICA, TERNARY SYSTEMS
METAL-REFRACTORY REACTION STUDIES IN THE IRON-CHROMIUM-SILICA SYSTEM 67-08 M14-75035
SILICA, THIN FILMS
DEPOSITION OF SILICA FILMS BY THE GLOW DISCHARGE

TECHNIQUE 67-02 M12-61769
FORMATION OF SIO2 FILMS BY OXYGEN-ION BOMBARDMENT 67-02 M14-59073
TRACER EVALUATION OF HYDROGEN IN STEAM-GROWN SIO2 FILMS 67-05 M14-68629

SILICA, TRANSPORT PROPERTIES
CHARGE TRANSPORT PHENOMENA IN MOS SYSTEM 67-05 M16-69293

SILICA BRICK
INVESTIGATIONS ON IRON OXIDE-CONTAINING SILICA BRICK 67-07 M04-73112
STRUCTURAL AND MORPHOLOGICAL METAMORPHISM OF SILICA AND SILICA-ALUMINA REFRACTORIES USED IN METALLURGY 67-07 M04-73209

SILICATES, PHASES /STATE OF MATTER/
HIGH-TEMPERATURE CHEMISTRY OF SILICATES AND OTHER OXIDE SYSTEMS 67-04 M15-66278
PREPARATION AND PROPERTIES OF RARE-EARTH SILICATES AND ALUMINATES 67-08 M14-75999

SILICATES, REACTIONS /CHEMICAL/
FORMATION OF ALKALI SILICATES AND ALUMINO-SILICATES AND THEIR OCCURRENCE IN BLAST FURNACES 67-04 M14-66139
RADIOACTIVE ISOTOPE INVESTIGATION OF THE REDUCTION KINETICS OF SOME CHEMICAL COMPOUNDS OF ZN IN TUBULAR FURNACES 67-07 M03-73040
ON THE SOLUBILITY OF SODIUM-CALCIUM HYDROSILICATE IN ALKALIS AND ALUMINATE SOLUTIONS 67-08 M14-75018

SILICATES, SLAGS
METHOD OF ROUGH ESTIMATION OF THE SLAG VISCOSITY NEAR NEUTRALITY 67-01 M04-58307

SILICATES, TERNARY SYSTEMS
THE SYSTEM KA1SIO4-MG2SIO4-KA1SI2O6 67-08 M13-76091

SILICEOUS REFRACTORIES
SEE ALSO FIREBRICK
SILICA BRICK
SILICON NITRIDE--A CORROSION AND AL-RESISTANT SUBSTANCE 67-04 M05-68003

SILICEOUS REFRACTORIES, WEAR
PRODUCTION OF CHAMOTTE PIECES FROM SAFONOV CLAY 67-07 M05-72609

SILICIDES, BINARY SYSTEMS
OXIDATION RESISTANCE OF ALLOYS BASED ON TUNGSTEN AND NIOBIUM SILICIDES 67-07 M15-73280

SILICIDES, CERAMICS
HEAT RESISTANT CERAMIC MATERIALS 67-06 M05-70225

SILICIDES, COATINGS
KINETICS OF WSI2 GROWTH ON SILICON 67-12 M14-82740

SILICIDES, CORROSION
EVALUATION OF SILICIDE COATINGS ON COLUMBIUM AND TANTALUM AND A MEANS FOR IMPROVING THEIR OXIDATION RESISTANCE 67-06 M18-69926
OXIDATION-RESISTANT HARD MATERIALS 67-06 M18-70080

SILICIDES, CRYSTAL GROWTH
TRANSPORT REACTIONS OF THE SILICIDES AND BORIDES OF TRANSITION METALS 67-03 M14-65184
LOW-TEMPERATURE SYNTHESIS OF METALLIC SILICIDES AND GERMANIDES BY AN AMALGAM METHOD 67-05 M14-68215

SILICIDES, CRYSTAL LATTICES
CRYSTAL STRUCTURE AND SUPERCONDUCTIVITY OF A HIGH-PRESSURE PHASE OF CASI2 67-05 M16-68220
THE CRYSTAL STRUCTURES OF RARE-EARTH MONOSILICIDES 67-08 M13-74783
A NEW VANADIUM SILICIDE OF FORMULA, V6SI5 67-11 M13-81566

SILICIDES, ELECTRICAL PROPERTIES
WORK FUNCTION OF METALS 67-06 M16-70492
ELECTRICAL AND MAGNETIC PROPERTIES OF SOLID SOLUTIONS OF VANADIUM AND TITANIUM DISILICIDES IN CHROMIUM DISILICIDE 67-09 M15-76916

SILICIDES, OXIDATION
THE ROLE OF IRON IN THE OXIDATION OF MOLYBDENUM DISILICIDE 67-06 M18-71615

SILICIDES, PHASE TRANSFORMATIONS
TRANSMISSION ELECTRON MICROSCOPY OF VANADIUM-SILICON --V3SI-- AT LOW TEMPERATURES 67-07 M13-73624

SILICIDES, PHYSICAL PROPERTIES
PREPARATION OF TITANIUM DISILICIDE SINGLE CRYSTALS 67-04 M14-66343
THE VISCOSITY OF LIQUID SILICON, CHROMIUM AND ITS SILICIDES 67-06 M15-69972
ENGINEERING PROPERTIES OF SELECTED CERAMIC MATERIALS 67-07 M05-73875

SILICIDES, POWDER METALLURGY
MECHANICAL PROPERTIES OF MATERIALS BASED ON SIC AND SI3N4 67-06 M09-70775

SILICIDES, REACTIONS /CHEMICAL/
OXIDATION STUDIES OF COMPLEX SILICIDES FOR PROTECTIVE COATINGS 67-08 M18-75520

SILICIDES, THERMAL PROPERTIES
EMISSIVITY OF MOLYBDENUM DISILICIDE COATINGS 67-06 M15-72039
SPECIFIC HEAT, ENTHALPY, AND ENTROPY OF CR5SI3 AND CRSI2 67-11 M15-80494

SILICIDES, THERMODYNAMICS
CALCULATION OF HEAT CAPACITY OF REFRACTORY COMPOUNDS 67-06 M15-72330

SILICIDES, TRANSPORT PROPERTIES
PHOTOELECTRIC MEASUREMENT OF TUNGSTEN SILICIDE AND N-TYPE SILICON BARRIERS 67-07 M15-72661
VACUUM THERMIONIC WORK FUNCTIONS AND THERMAL STABILITY OF TAB2, ZRC, MO2C, MOSI2, TASI2 AND WSI2 67-08 M16-75125

SILICON
EFFECTS OF EXTERNAL AND INTERNAL ELECTRIC FIELDS ON THE BORON ACCEPTOR STATES IN SILICON 67-11 M16-80328

SILICON, ALLOYING ADDITIVE
ON THE MELTING TECHNIQUES OF THE HIGH-QUALITY SPECIAL STEEL SMELTING 67-01 M04-58243
THE INFLUENCE OF THE HEAT TREATMENT OF INGOTS AND SLABS ON THE EARING OF ALUMINUM SHEET OF DIFFERENT PURITIES 67-01 M08-57287
EFFECT OF MANGANESE AND SILICON ON TRANSFORMATION OF SUPERCOOLED AUSTENITE IN COBALT STEEL 67-01 M14-57188
INFLUENCE OF CERTAIN ALLOYING ELEMENTS ON THE KINETICS OF FORMATION OF PEARLITE 67-02 M14-62064
HALL COEFFICIENT OF ALUMINUM RICH ALLOYS 67-02 M15-59059
HEAT RESISTANT STEEL WHICH IS NOT ALLOYED WITH CHROMIUM AND NICKEL 67-02 M17-58867
THE EFFECT OF CALCIUM, SILICON, MANGANESE AND CHROMIUM ON THE MECHANICAL PROPERTIES OF FLASH BUTT WELDS 67-02 M17-59110
TREATMENT OF WHITE IRON WITH BORON AND SILICON 67-02 M17-61187
INFLUENCE OF CHEMICAL COMPOSITION ON THE ANISOTROPY OF THE IMPACT STRENGTH OF SOME CASE-HARDENING STEELS 67-02 M17-62065
THE EFFECT OF NICKEL, SILICON AND NIOBIUM ON THE OXIDATION OF TITANIUM AT HIGH TEMPERATURES 67-02 M18-59785
STAINLESS STEELS WITH AN ADDITION OF SILICON.. GENERAL STUDY OF THEIR BEHAVIOR IN HIGHLY OXIDIZING ACID MEDIA 67-02 M18-62036
MARTENSITE IN TERNARY CU-ZN-BASED BETA-PHASE ALLOYS 67-03 M14-65079
THE SOLUBILITY OF NITROGEN IN MULTICOMPONENT LIQUID IRON ALLOYS 67-03 M14-65081
THE EFFECT OF SULFUR, PHOSPHORUS AND SILICON ADDITIVES ON THE ACTIVITY AND TYPE OF CORROSION OF NICKEL ANODES 67-03 M18-65417
OBTAINING SINGLE CRYSTALS OF IRON ALLOYED WITH SILICON BY THE NONCRUCIBLE ZONAL MELTING METHOD 67-04 M14-66024
ACID RESISTANT, HIGH-ALLOY SI CAST IRON 67-04 M18-66187
INFLUENCE OF MINOR ALLOY ELEMENTS ON STRUCTURE OF SURFACE OXIDES FORMED DURING HIGH-TEMPERATURE OXIDATION OF AN AUSTENITIC STEEL 67-04 M18-66733
INFLUENCE OF SILICON ON THE MECHANICAL PROPERTIES OF CR-NI-MO ALLOYS AND SUSCEPTIBILITY TO INTERCRYSTALLINE CORROSION 67-04 M18-67973
INFLUENCE OF CARBON, SILICON AND BORON ON HOT TEARING IN WHITE CAST IRON 67-05 M06-68951
ON THE REFINING EFFECT OF SI IN THE VACUUM MELTING OF 50NI-FE ALLOY AND ITS INFLUENCE ON THE MAGNETIC PROPERTIES 67-05 M15-69862
STEELS FOR PIPES OF FURNACES FOR PYROLYSIS OF GASEOUS HYDROCARBONS 67-05 M17-68363
GROWTH AND PREFERRED ORIENTATIONS OF LARGE ELONGATED GRAINS IN DOPED TUNGSTEN SHEET 67-06 M13-69949
DISTRIBUTION OF SILICON AND CHROMIUM BETWEEN THE PHASES OF CAST IRON OF LOW CHROMIUM CONTENT 67-06 M13-71113
WORK HARDENING AND AGE HARDENING OF NICKEL

CONTAINING 12 AT. PER CENT SILICON
67-06 M14-71663
THE SOLUBILITY OF SULFUR IN SILICON-IRON
67-06 M15-69946
MAGNETIC SUSCEPTIBILITY OF NICKEL-SILICON ALLOYS
67-07 M15-73854
CERIUM-SILICON ALLOY REDUCES CHILL IN GRAY IRON
67-08 M06-75541
THE DRILLING AND THE REAMING OF ALUSIL
67-08 M08-75376
SUPERCOOLING OF MOLTEN CAST IRON DURING EUTECTIC SOLIDIFICATION 67-08 M14-74674
THE SURFACE ENERGY OF IRON-3 PER CENT SILICON BY SURFACE-RELAXATION MEASUREMENTS
67-08 M14-76206
INFLUENCE OF ADDITIONS OF BERYLLIUM, THALLIUM, AND SILICON ON THE HEAT RESISTANCE AND ELECTRICAL AND MECHANICAL PROPERTIES OF SILVER
67-08 M15-74998
ON THE SPECIFIC HEAT OF FE-SI ALLOYS
67-08 M15-75647
ANTIPHASE BOUNDARIES IN SILICON IRON SINGLE CRYSTALS REVEALED BY ETCHING 67-08 M16-75241
EFFECT OF SILICON, BORON AND CALCIUM ON OXIDATION OF LIQUID IRON-CHROMIUM ALLOYS
67-08 M18-75870
THE EFFECTS OF SILICON ADDITIONS TO THE BATH IN GALVANIZING WITH SHORT DIPPING TIMES
67-09 M12-77652
EFFECTS OF 0.25 PER CENT SILICON ON PRECIPITATION PROCESSES IN AN ALUMINUM-2.5 PER CENT COPPER-1.2 PER CENT MAGNESIUM ALLOY 67-09 M14-76677
HYSTERESIS IN THE ALPHA-BETA TRANSITION OF URANIUM SATURATED WITH SILICON
67-09 M14-78266
INVESTIGATION OF THE ELECTRICAL CONDUCTIVITY OF ALUMINUM ALLOYS HAVING SILICON AS THE MAIN ALLOYING ELEMENT 67-09 M15-77034
THE DEFORMATION BEHAVIOR OF NON-ISO-AXIAL BICRYSTALS OF FE-3 PER CENT SI
67-09 M17-77920
INFLUENCE OF SILICON ON INTERGRANULAR CORROSION AND GRAIN BOUNDARY ENERGY IN NICKEL-CHROMIUM AUSTENITIC STAINLESS STEELS 67-09 M18-77679
EFFECTS OF RARE EARTH ELEMENTS ON HIGH-TEMPERATURE OXIDATION BEHAVIOR OF FE-18 PER CENT CR ALLOYS CONTAINING SILICON 67-09 M18-78218
EFFECT OF SILICON ON THE SCALE RESISTANCE AND STRUCTURAL STATE OF CHROMIUM-MANGANESE STEELS
67-10 M18-79327
FUNDAMENTAL STUDIES ON CORROSION BEHAVIORS OF IRON-SILICON ALLOYS. PT. 1. ANODIC BEHAVIORS OF IRON-SILICON ALLOY 67-10 M18-79606
AL-SI CASTING ALLOYS WITH HIGH-SI CONTENT
67-11 M06-80459
CHEMICAL POLISHING OF FE-SI ALLOYS
67-11 M12-80321
THE EFFECT OF THE FOUR MOST IMPORTANT ALLOYING ELEMENTS OF CAST IRON 67-11 M14-81384
YIELD POINT PHENOMENA IN NONFERROUS METALS
67-11 M17-80343
EFFECT OF MN, SI AND TI ON THE PROPERTIES OF KH8M4D4 STEEL 67-12 M06-83032
THE FORMATION OF SILUMIN MICROSTRUCTURE
67-12 M06-83040
ALLOYING OF STEELS FOR PETROLEUM INDUSTRY TUBING
67-12 M10-83536
FAULTING IN COLD WORKED FE-SI ALLOY FILINGS
67-12 M13-82723
THE EFFECT OF SILICON CONTENT ON THE SECONDARY RECRYSTALLIZATION OF SILICON-IRON
67-12 M14-82589
VISCOSITY OF ALUMINUM AND ALUMINUM-SILICON ALLOYS--INFLUENCE OF THE FILM OF ALUMINA
67-12 M15-81815
THERMAL PROPERTIES OF GOLD-SILICON BINARY ALLOY NEAR THE EUTECTIC COMPOSITION
67-12 M15-82372
EFFECT OF SILICON ON THE STACKING FAULT ENERGY OF 18 PER CENT CR-10 PER CENT NI STAINLESS STEEL
67-12 M18-82590
THE EFFECT OF GRAIN BOUNDARY STRUCTURE ON THE INTERCRYSTALLINE STRESS CORROSION BEHAVIOR OF BRASS ALLOYS 67-12 M18-83142

SILICON, ALLOYING EFFECTS
INFLUENCE OF SULPHUR, PHOSPHOROUS AND SILICON ON SOLIDIFICATION CRACKING IN TYPE 30KH10G10 WELD METAL 67-04 M11-67989

SILICON, ALLOYING ELEMENTS
HOW THE MELTING FURNACE LINING AFFECTS THE SILICON CONTENT OF ALUMINUM ALLOYS
67-04 M14-67935

SILICON, ATOMIC PROPERTIES
A STUDY OF INTER-IMPURITY RECOMBINATION BETWEEN PHOSPHORUS AND BORON IN SILICON
67-06 M16-71776
ABSORPTION-LINE BROADENING IN BORON-DOPED SILICON
67-11 M15-80331
ATOMIC SCATTERING OF X-RAYS AND THE ELECTRON DENSITY OF IRON AND SILICON 67-11 M16-80158

SILICON, BAND THEORY
NEW STUDIES OF THE BAND STRUCTURE OF THE DIAMOND-TYPE CRYSTALS 67-04 M16-66739
EFFECT OF DOPING ON THE ELECTRON SPIN RESONANCE IN PHOSPHORUS-DOPED SILICON 67-04 M16-66789
TRANSMUTATION DOPING AND RECOIL EFFECTS IN SEMICONDUCTORS EXPOSED TO THERMAL NEUTRONS
67-04 M16-67308

SILICON, BINARY SYSTEMS
PRODUCTION OF RARE EARTH SILICIDES BY ARC MELTING 67-02 M13-59882
ON THE TUNGSTEN-RICH REGION OF THE TUNGSTEN-SILICON PHASE EQUILIBRIUM DIAGRAM 67-02 M13-60742
THE DENSITY AND SURFACE TENSION ISOTHERMS OF MANGANESE-SILICON MELTS 67-02 M15-62211
INVESTIGATION OF SI-TA2O5 SYSTEM PREPARED BY REACTIVE SPUTTERING 67-02 M16-60521
STUDY OF PHASE DIAGRAMS IN BINARY SYSTEMS BASED ON ISOACTIVITIES 67-04 M13-67849
SOME NOTES ON THE PALLADIUM-SILICON SYSTEM
67-04 M13-68156
MICROANALYSIS OF OXIDIZED MOLTEN IRON ALLOYS
67-04 M19-67269
CALCULATION OF SOLIDUS CURVES IN BINARY SYSTEMS OF GERMANIUM, SILICON AND ON THE A3B5-METAL SECTIONS
67-05 M13-68405
PHASE DIAGRAM OF THE MN-SI SYSTEM IN THE REGION OF HIGHER MANGANESE SILICIDE 67-05 M13-69230
USE OF PHASE DIAGRAMS OF BINARY SYSTEMS TO CALCULATE THE HEAT OF FUSION OF THE SOLVENT
67-05 M15-69110
MOSSBAUER IRON SPECTRA IN THE EPSILON-PHASE HOMOGENEITY REGION OF THE IRON-SILICON SYSTEM
67-06 M16-72373
GOLD SILICON PHASE DIAGRAM 67-08 M13-76083
PARAMAGNETIC STUDY OF FE-SI AND FE-GE ALLOYS
67-10 M15-80022
PRODUCTION OF NEW PHASES BY ULTRARAPID QUENCHING OF LIQUID ALLOYS 67-11 M10-80246
THERMODYNAMIC PROPERTIES OF LIQUID MAGNESIUM-SILICON ALLOYS. DISCUSSION OF THE MG-GROUP IVB SYSTEMS 67-12 M15-82850
INVESTIGATION OF THE CR-SI SYSTEM IN THE DISILICIDE REGION 67-12 M16-82684

SILICON, BRAZING ALLOYS
MN AS AN ALLOYING COMPONENT IN BRAZING ALLOYS FOR LMS 60 BRASS. PT. 1 67-04 M11-67080

SILICON, CHEMICAL ANALYSIS
THE PHOTOMETRIC DETERMINATION OF SILICON IN IRON AND ITS STRUCTURAL COMPONENTS
67-07 M19-72708
TOTAL-BURN SPECTROGRAPHIC DETERMINATION OF SILICON IN PLUTONIUM 67-07 M19-73876

SILICON, CLEANING
ACTIVATION ENERGIES IN THE CHEMICAL ETCHING OF SEMICONDUCTORS IN HNO3-HF-CH3COOH
67-12 M12-82460
METHOD FOR PRODUCING SEMICONDUCTOR CRYSTAL SURFACES WITH A ROUGHNESS OF LESS THAN 0.05 MICRONS
67-12 M12-82499

SILICON, COATING
TEMPORARY PROTECTION OF SILICON SURFACES BY IODINE FILMS 67-02 M18-61771
THE GROWTH AND ETCHING OF SI THROUGH WINDOWS IN SIO2 67-06 M14-72173
KINETICS OF WSI2 GROWTH ON SILICON
67-12 M14-82740

SILICON, COATINGS
THE BEHAVIOR OF COATINGS AT EXTREMELY LOW TEMPERATURES 67-02 M17-59077
MEASURING TEMPERATURES IN HEAT TREATING
67-02 M19-60862
DEPOSITION OF THIN FILMS UNDER THE INFLUENCE OF FAST ION IRRADIATION 67-04 M12-67057
METHOD OF MEASURING RATE OF PURE METALS DEPOSITION FROM THE GAS PHASE 67-04 M12-67532
DIFFUSION METHODS FOR THE PROTECTION OF METALLIC SURFACES 67-06 M12-72158

SILICON, CRYSTAL GROWTH
THE PROBLEM OF IMPURITY DISTRIBUTION IN SILICON SINGLE CRYSTALS GROWN BY THE CZOCHRALSKI METHOD 67-01 M14-58140
RHEOTAXIAL GROWTH OF SILICON WITH GERMANIUM-SILICON ALLOYS 67-01 M14-58317
GROWTH OF VANADIUM ON SILICON SUBSTRATES 67-02 M14-61766
SINGLE-CRYSTAL GROWTH ON ALPHA-AL2O3 SUBSTRATE 67-03 M14-65642
THE KINETICS OF EPITAXIAL SILICON DEPOSITION BY THE HYDROGEN REDUCTION OF CHLOROSILANES 67-03 M14-65695
TOPOGRAPHY OF SILICON WEB CRYSTAL SURFACES 67-03 M15-65660
PREPARATION OF SEMICONDUCTOR MATERIALS. PT. 3 67-03 M16-65456
TRAVELING SOLVENT DEFECTS ON SILICON WAFERS 67-05 M14-68631
A P-N JUNCTION IN SILICON WHISKERS GROWN BY VLS METHODS 67-05 M14-68718
PROCESS FOR GROWTH OF SINGLE-CRYSTAL SILICON RIBBON 67-06 M14-71696
DEFECTS IN SILICON CRYSTALS GROWN BY THE VLS TECHNIQUE 67-08 M14-75117
A NEW TECHNIQUE FOR PRODUCING EPITAXIAL SILICON LAYERS USING ULTRATHIN ALLOY ZONES INTERNATIONAL VACUUM CONGRESS, V 2, PT 2, 1967, PERGAMON PRESS, 44-01 21ST STREET, LONG ISLAND CITY, NEW YORK 11101. P 295-299 67-08 M14-75155
A STUDY OF NUCLEATION IN CHEMICALLY GROWN EPITAXIAL SILICON FILMS USING MOLECULAR BEAM TECHNIQUES. PT. 3. NUCLEATION RATE MEASUREMENTS AND THE EFFECT OF OXYGEN ON INITIAL GROWTH BEHAVIOR 67-09 M14-77521
MULTIPLE DISLOCATION LOOPS OBSERVED IN SILICON CRYSTALS GROWN IN HYDROGEN AMBIENT 67-10 M13-79127
A NEW MECHANISM FOR STACKING FAULT GENERATION IN EPITAXIAL GROWTH OF SILICON IN ULTRAHIGH VACUUM 67-12 M12-82219

SILICON, CRYSTAL LATTICES
ENERGY DEPENDENCE OF ANISOTROPY OF DEFECT PRODUCTION IN ELECTRON IRRADIATED DIAMOND-TYPE CRYSTALS. PT. 1. EXPERIMENTAL MEASUREMENTS ON N- AND P-TYPE SILICON 67-01 M16-57944
ENERGY DEPENDENCE OF ANISOTROPY OF DEFECT PRODUCTION IN ELECTRON IRRADIATED DIAMOND-TYPE CRYSTALS. PT. 2. THEORETICAL MODEL 67-01 M16-57945
THE OBSERVATION OF LOMER-COTTRELL DISLOCATIONS IN BORON-DIFFUSED --111-- SILICON BY BERG-BARRETT SKEW REFLECTIONS 67-02 M13-61662
DISLOCATIONS IN SILICON DUE TO LOCALIZED DIFFUSION 67-02 M13-61829
EFFECT OF 60CO GAMMA RAYS ON HIGH-RESISTIVITY P-TYPE SI 67-02 M14-61833
GOLD-INDUCED DISLOCATION LOOPS IN SILICON CRYSTALS 67-03 M13-65156
MEASUREMENTS ON LOCAL VARIATIONS IN SPACING AND ORIENTATION OF THE LATTICE PLANE OF SILICON SINGLE CRYSTALS BY X-RAY DOUBLE-CRYSTAL TOPOGRAPHY 67-03 M13-65158
VIBRATIONS OF INTERSTITIAL LI PLUS IONS IN SILICON. PT. 1. FORCE CONSTANTS 67-03 M13-65562
VIBRATIONS OF INTERSTITIAL LI PLUS IONS IN SILICON. PT. 2. FREQUENCIES OF LOCALIZED MODES 67-03 M13-65563
LOW-TEMPERATURE INTERNAL FRICTION IN SILICON 67-03 M16-65632
INFRARED STUDIES OF DEFECT PRODUCTION IN N-TYPE SI--IRRADIATION-TEMPERATURE DEPENDENCE 67-05 M14-69817
STACKING-FAULT TETRAHEDRA IN --001-- EPITAXIAL SILICON FILMS 67-06 M13-71091
SOME ELECTRON DIFFRACTION CONTRAST EFFECTS AT PLANAR DEFECTS IN CRYSTALS 67-06 M13-71280
ELECTRON MICROSCOPE IMAGE PROFILES OF PLANAR DEFECTS IN CRYSTALS 67-06 M13-71281
INFLUENCE OF OXYGEN IN SILICON ON THE MOTION OF DISLOCATIONS GENERATED BY DIFFUSION 67-06 M14-70873
A MODIFICATION OF THE SCANNING X-RAY TOPOGRAPHIC CAMERA --LANGS METHOD-- 67-06 M14-71420
RAMAN SCATTERING FROM DONOR AND ACCEPTOR IMPURITIES IN SILICON 67-06 M16-71100
LARGE AREA SILICON JUNCTIONS BY EPITAXIAL GROWTH TECHNIQUE 67-07 M14-73461
SURFACE MEASUREMENTS USING LOW ENERGY ELECTRON DIFFRACTION 67-08 M13-74708
THE OBSERVATION OF THICK SPECIMENS BY HIGH VOLTAGE ELECTRON MICROSCOPY. EXPERIMENTS WITH MOLYBDENITE FILMS AT 50-500 KV 67-08 M13-75934
PERFECT EPITAXY OF SILICON FILMS ON SILICON AS SEEN IN LARGE-AREA X-RAY TOPOGRAPHS 67-08 M14-75156
THE MECHANISM OF SUBSTITUTIONAL DIFFUSION IN SILICON 67-08 M16-75242
MICROPROBE INVESTIGATIONS OF COPPER PRECIPITATES IN SILICON SINGLE CRYSTALS 67-10 M13-79011
INVESTIGATION OF THE DISLOCATION STRUCTURE OF SILICON DEFORMED DURING THE EASY SLIP STAGE 67-10 M13-79448
EFFECT OF IMPURITIES ON THE ANNEALING BEHAVIOR OF IRRADIATED SILICON 67-10 M16-79154
ORIENTED GROWTH OF THE INTERFACIAL PTSI LAYER BETWEEN PT AND SI 67-11 M16-81205

SILICON, CUTTING
GAS-BORNE ABRASIVE CUTS BRITTLE MATERIALS 67-06 M08-71205

SILICON, DEFECTS
DEFECT-IMPURITY RELATIONSHIPS IN ELECTRON-DAMAGED SILICON 67-03 M16-65742
DIFFUSION-INDUCED DEFECTS IN SILICON. PT. 1 67-05 M14-69207
DIFFUSION-INDUCED DEFECTS IN SILICON. PT. 2 67-05 M14-69208
IMPERFECTIONS DUE TO DOUBLE DIFFUSIONS IN EPITAXIAL SILICON 67-05 M14-69211

SILICON, DEOXIDIZERS
BEHAVIOR OF NONMETALLIC INCLUSIONS DURING ROLLING OF STEEL DEOXIDIZED WITH THE COMBINATIONS MN-AL AND SI-AL. PT. 5. DEFORMATION OF INCLUSIONS IN STEEL DURING ROLLING 67-06 M04-72211
RATE OF MANGANESE AND SILICON COMPLEX DEOXIDATION OF STEEL. PT. 4. KINETIC RESEARCHES INTO THE DEOXIDATION OF STEEL 67-06 M04-72291
PRIMARY INCLUSIONS FROM THE DEOXIDATION OF STEEL WITH SILICON AND ALUMINUM. PT. 1. KINETIC RESEARCHES ON STEEL DEOXIDATION 67-07 M04-72499

SILICON, DIFFUSION
DIFFUSION FROM DOPED OXIDE FILMS AS A PROCESS FOR THE PRODUCTION OF STRUCTURAL SEMICONDUCTOR ELEMENTS 67-02 M14-59620
X-RAY MEASUREMENT OF ELASTIC STRAIN AND LATTICE CONSTANT OF DIFFUSED SILICON 67-03 M14-65769
DIFFUSION IN A BIMETAL HAVING DIFFERENT CONCENTRATIONS OF SILICON 67-05 M14-68383
DIBORANE FOR BORON DIFFUSION INTO SILICON 67-05 M14-68777
AN ELECTROPHOTOGRAPHIC METHOD FOR DETERMINING THE DIFFUSION COEFFICIENT OF LITHIUM IN P-TYPE SILICON 67-05 M16-69379
INVESTIGATION OF THE DIFFUSION OF BORON IN SILICON FROM A LAYER DOPED BY ION BOMBARDMENT 67-05 M16-69391
STUDY OF THE KINETICS OF DIFFUSION OF SEVERAL ELEMENTS FROM THE SAME SOURCE 67-06 M14-70322
ON THE DIFFUSION OF ALUMINUM INTO SILICON 67-06 M14-71695
ELECTRON MIRROR OBSERVATION OF LITHIUM PRECIPITATION AT SCRATCH-INDUCED DISLOCATIONS IN SILICON 67-06 M16-70994
ANODIC OXIDE GROWTH BEHAVIOR ON SILICON 67-06 M16-72177
SOLUTE DIFFUSION IN PLASTICALLY DEFORMED SILICON CRYSTALS 67-07 M14-72885
ELECTRON MIRROR MICROSCOPIC INVESTIGATION OF SURFACE DIFFUSION OF LITHIUM IN SILICON 67-07 M14-72955
ON THE PRECIPITATION OF COPPER IN SILICON CRYSTALS OF DIFFERENT REAL STRUCTURE 67-07 M14-73895
STRESS-INDUCED SOLUTE DIFFUSION ALONG DISLOCATIONS IN DILUTE COPPER ALLOYS 67-07 M14-73911
MOBILITY OF ATOMS OF ALLOYED ELEMENTS IN AUSTENITE 67-08 M14-74958
DISSOCIATIVE DIFFUSION OF NICKEL IN SILICON AND SELF-DIFFUSION OF SILICON 67-08 M14-75936
REAL STRUCTURE AND REACTIVITY OF SILICON SINGLE CRYSTALS 67-09 M13-76775
PRECIPITATION OF PHOSPHORUS, ARSENIC, AND BORON IN THIN SILICON FOILS 67-09 M14-77152
SPECIAL PROTECTION OF HIGHLY HEAT-RESISTANT

SILICON

MATERIALS 67-10 M14-79683
SIMULTANEOUS DIFFUSION OF GA AND AS INTO SILICON FROM A GAAS SOURCE 67-11 M14-80535
SPECIAL PROTECTION OF HIGHLY-HEAT RESISTANT MATERIALS 67-11 M18-80698

SILICON, DISSOLVING
DISSOLUTION OF COMMERCIALLY AVAILABLE SILICON NITRIDE INTO LIQUID IRON 67-08 M14-75305

SILICON, ELECTRICAL PROPERTIES
IDEAL MOS CURVES FOR SILICON 67-01 M15-57221
MEASUREMENT OF THE SURFACE STATES BY UTILIZING MOS STRUCTURE 67-01 M15-58312
LOW RESISTIVITY EPITAXIAL LAYERS OF SILICON 67-02 M16-61503
A CONTACTLESS METHOD FOR MEASURING SPECIFIC RESISTANCE OF SEMICONDUCTOR PLATES AND EPITAXIAL LAYERS 67-03 M15-65075
THE INFLUENCE OF SURFACE PREPARATION ON THE SURFACE RESISTIVITY OF SILICON 67-03 M15-65692
STUDY OF N- AND P-TYPE SILICON EXPOSED TO HIGHLY ENERGETIC RADIATION 67-03 M16-65741
ANNEALING STUDY IN ELECTRON-IRRADIATED N-TYPE SILICON 67-03 M16-65898
QUENCHING OF PHOTOCONDUCTIVITY IN SILICON 67-05 M16-68575
ANNEALING OF PROTON RADIATION DAMAGE IN SILICON SOLAR CELLS 67-05 M16-69093
EFFECTS OF PREOXIDATION TREATMENT ON MOS TRANSISTOR CHARACTERISTICS 67-05 M16-69299
PHOTOELECTRIC PROPERTIES OF SILICON DOPED WITH COPPER, TUNGSTEN AND PLATINUM 67-05 M16-69380
MEASUREMENT OF THE MAGNETORESISTANCE OF P-TYPE SILICON IN STRONG PULSED MAGNETIC FIELDS 67-05 M16-69390
RESISTIVITY INHOMOGENEITIES IN SILICON CRYSTALS 67-06 M15-70663
INFLUENCE OF UNIAXIAL COMPRESSION ON HOPPING CONDUCTION IN P-TYPE SI 67-06 M15-71774
STRUCTURE, CONDUCTIVITY AND HALL EFFECT OF ELECTRON BOMBARDMENT EVAPORATED SILICON FILMS ON SAPPHIRE 67-06 M15-72001
ELECTRICAL CONDUCTIVITY OF SILICON OXIDE 67-06 M16-71026
DIELECTRICALLY ISOLATED SILICON WITH A SHARP IMPURITY GRADIENT 67-06 M16-71694
PHOTOELECTRIC STATES IN SILICON CONTAINING RADIATION DEFECTS 67-06 M16-71759
NONSINUSOIDAL CURRENT OSCILLATIONS IN N-TYPE SILICON COMPENSATED WITH ZINC 67-06 M16-71767
CONTACTLESS METHOD FOR MEASURING THE SPECIFIC RESISTANCE OF SEMICONDUCTOR PLATES AND EPITAXIAL LAYERS 67-07 M15-72966
GALLIUM ARSENIDE FETS OUTPERFORM CONVENTIONAL SILICON MOS DEVICES 67-09 M16-76640
MAGNESIUM AS A DONOR IMPURITY IN SILICON 67-10 M15-78447
LOW TEMPERATURE ELECTRICAL PROPERTIES OF SILICON MATERIAL 67-10 M15-80025
RECOMBINATION PROPERTIES OF THE GOLD ACCEPTOR LEVEL IN SILICON USING THE IMPURITY PHOTOVOLTAIC EFFECT 67-10 M16-79279
EFFECT OF DIFFUSED OXYGEN AND GOLD ON SURFACE PROPERTIES OF OXIDIZED SILICON 67-11 M15-80507

SILICON, EPITAXIAL GROWTH
EPITAXIAL GROWTH OF SI ON SI IN ULTRAHIGH VACUUM 67-08 M14-75157

SILICON, ETCHING
A SIMPLE METHOD OF PREPARING SILICON SPECIMENS 67-05 M13-69632

SILICON, INTERMETALLICS
SOME PHYSICAL AND CHEMICAL PROPERTIES OF RARE-EARTH METAL SILICIDES 67-01 M15-58200
THE THERMOCHEMISTRY OF MN3SI 67-02 M15-59892
MOSSBAUER STUDY ON FESN AND FE3SN 67-04 M15-68063
CRYSTAL STRUCTURE OF ZR5SI4 67-05 M14-69850
THE V3SI-V3GA SYSTEM 67-06 M14-71397
CONCERNING A NEW TERNARY PHASE, NBMNSI 67-12 M13-82286

SILICON, IRRADIATION
DETERMINATION OF SILICON BY NEUTRON RADIOACTIVATION AND APPLICATION TO NUCLEAR GRAPHITES AND ALUMINAS. INVESTIGATION OF INTERFERENCES 67-12 M16-82239

SILICON, MACHINING
SYNTHETIC DIAMONDS AND THEIR APPLICATIONS IN MODERN SOVIET INDUSTRY 67-03 M08-65161
GAS-BORNE ABRASIVE CUTS BRITTLE MATERIALS 67-09 M08-76498

SILICON, MAGNETIC PROPERTIES
ELECTRON SPIN RESONANCE OF PHOSPHORUS-DOPED SILICON IN THE METALLIC CONDUCTION REGION 67-04 M16-66788
PROPERTIES AND APPLICATION OF NEW SI MATERIALS WITH CUBICAL TEXTURE 67-07 M15-73812
MAGNETIC ANOMALY IN THE METALLIC IMPURITY CONDUCTION 67-07 M16-73991
ANNEALING EFFECTS OF PARAMAGNETIC DEFECTS INTRODUCED NEAR SILICON SURFACE 67-08 M15-75055
THE ANISOTROPY OF PHOTOMAGNETIC EFFECTS IN GERMANIUM AND SILICON 67-10 M15-79118

SILICON, MEASURING INSTRUMENTS
THE USE OF SEMICONDUCTORS FOR THE STUDY OF BOILING HEAT TRANSFER TO LOW TEMPERATURE LIQUIDS 67-08 M15-75652

SILICON, MECHANICAL PROPERTIES
MICROHARDNESS OF SILICON SINGLE CRYSTALS AS DEPENDENT ON THE DISLOCATION DENSITY AND IMPURITY CONCENTRATION 67-01 M17-57361
FRACTURE OF SILICON AND GERMANIUM INDUCED BY PULSED ELECTRON IRRADIATION 67-03 M17-65744
RELAXATION EFFECT ON SEMICONDUCTOR-INSULATOR INTERFACES 67-04 M16-67061
RESIDUAL STRAINS IN PHOSPHORUS-DIFFUSED SILICON 67-07 M17-72646
A METHOD OF MEASURING THE HIGH TEMPERATURE MICROHARDNESS OF SEMICONDUCTORS 67-07 M17-72869
EFFECT OF LIGHT ON THE NORMAL ELASTIC MODULUS OF GERMANIUM AND SILICON 67-09 M17-77065
THE PROPERTIES OF THE LOW-TEMPERATURE INTERNAL FRICTION PEAK IN SILICON 67-10 M17-79023
THERMOELASTIC STRESS PULSES RESULTING FROM PULSED ELECTRON BEAMS 67-10 M17-79410
MEASURING THE HIGH-TEMPERATURE MICROHARDNESS OF SEMICONDUCTORS 67-12 M17-82177

SILICON, MELTING
PROBLEM OF ALLOYING SINGLE CRYSTALS WITH A SOLID ADDITIVE IN THE NONCRUCIBLE ZONE IN A VACUUM 67-05 M03-69251
INDUSTRIAL SILICON AND FERROSILICON 67-12 M02-83164

SILICON, METALLOGRAPHY
METHODS OF EXPOSING HETEROGENEITIES IN SILICON SINGLE CRYSTALS 67-01 M13-57648
OBSERVATION OF ETCHING OF N-TYPE SILICON IN AQUEOUS HF SOLUTIONS 67-06 M16-72182
METALLOGRAPHY OF SILICON SINGLE CRYSTALS 67-08 M13-74941

SILICON, MICROSTRUCTURE
STACKING FAULTS IN STEAM-OXIDIZED SILICON 67-02 M13-58946
EFFECTS OF THE THIRD ADDITION ELEMENTS ON GRAIN SIZE OF PRIMARY SILICON AND ITS COOLING RATE DEPENDENCY IN AL-20 PER CENT SI ALLOY 67-04 M14-67117
VACUUM THERMAL ETCHING OF GERMANIUM AND SILICON SURFACES 67-06 M13-72175
X-RAY OBSERVATIONS OF ANOMALOUS ETCH PATTERNS IN SILICON CRYSTALS 67-07 M13-73325

SILICON, NONDESTRUCTIVE TESTING
ELECTROMIGRATION EFFECTS IN ALUMINUM FILM ON SILICON SUBSTRATES 67-11 M16-81203

SILICON, OPTICAL PROPERTIES
THE INFRARED FARADAY EFFECT IN P-TYPE SEMICONDUCTORS 67-06 M16-72088
LOCAL MODE ABSORPTION FROM BORON PAIRS IN SILICON 67-08 M16-75833
OPTICAL STUDIES OF BETA-SIC 67-11 M15-80614

SILICON, PHYSICAL PROPERTIES
DETERMINATION OF THE SOLUBILITY OF SI IN DILUTE AL-SI ALLOYS BY LOW-TEMPERATURE RESISTIVITY MEASUREMENTS 67-02 M14-61534
ANISOTROPY OF DISSOLUTION OF SI CRYSTALS IN AN AL MELT 67-04 M14-67058
DISLOCATION-INDUCED DEVIATION OF PHOSPHORUS-DIFFUSION PROFILES IN SILICON 67-04 M14-67102
ENERGY DEPENDENCE OF NEUTRON DAMAGE IN SILICON 67-05 M16-69216
DENSITY CHANGES DUE TO DISLOCATIONS IN SILICON SINGLE CRYSTALS 67-06 M15-70997
ANNEALING OF IMPURITY RECOMBINATION BANDS IN SILICON IRRADIATED BY GAMMA RAYS

67-06 M16-71758
ENGINEERING PROPERTIES OF SELECTED CERAMIC MATERIALS 67-07 M05-73875
INFLUENCE OF DEFECTS AND OF THE INTERACTION BETWEEN THEM ON PHONON SCATTERING IN HEAVILY DOPED GE AND SI CRYSTALS 67-10 M15-79013
TEMPERATURE DISTRIBUTION IN AN INGOT COOLED BY SURFACE RADIATION 67-12 M06-82115

SILICON, POWDER METALLURGY
HYPEREUTECTIC ALUMINUM-SILICON ALLOYS PRODUCED BY HOT COMPACTION OF ATOMIZED POWDER 67-04 M09-68161

SILICON, QUATERNARY SYSTEMS
STUDY OF PHASE EQUILIBRIUM IN A PORTION OF THE TI-AL-CR-FE-SI-B SYSTEM 67-09 M13-77298

SILICON, RADIATION EFFECTS
AN ANALYSIS OF NON-UNIFORM PROTON IRRADIATION DAMAGE IN SILICON SOLAR CELLS 67-01 M16-57556
THEORETICAL AND EXPERIMENTAL DETERMINATIONS OF NEUTRON ENERGY DEPOSITION IN SILICON 67-03 M16-65740
RADIATION EFFECTS IN SEMICONDUCTORS 67-04 M16-67306
EVIDENCE FOR DAMAGE REGIONS IN SI, GAAS, AND INSB SEMICONDUCTORS BOMBARDED WITH HIGH-ENERGY NEUTRONS 67-10 M16-79168
ANNEALING OF BANDS OF IMPURITY RECOMBINATION RADIATION IN SILICON IRRADIATED WITH GAMMA QUANTA 67-10 M16-79450

SILICON, RADIOACTIVE MATERIALS
CHANGE OF THE DISSOLVED OXYGEN CONTENT IN SILICON DEOXIDATION 67-01 M04-58308

SILICON, REACTIONS /CHEMICAL/
KINETICS OF COMPLEX DEFECT ANNEALING IN SILICON 67-01 M16-57953
THERMAL OXIDATION OF SILICON.. GROWTH MECHANISM AND INTERFACE PROPERTIES 67-05 M18-69778
ELECTROCHEMICAL NATURE OF SILICON TRANSFER BETWEEN MOLTEN AG-SI ALLOY AND CAO-B2O3-SIO2 SLAG 67-08 M14-75565
REDUCTION OF SILICON FROM OXIDE MELTS BY THE CARBON PRESENT IN PIG IRON 67-11 M04-81642

SILICON, REDUCTION /CHEMICAL/
KINETICS OF CHARGE REDUCTION IN THE PRODUCTION OF 45 PER CENT-FERROSILICON 67-10 M04-79323

SILICON, REFINING
PRODUCTION OF HIGH-PURITY SILICON BY VACUUM DISTILLATION AS CHLORIDE 67-05 M03-69261
HIGH-PURITY SILICON 67-09 M03-78295

SILICON, SEGREGATIONS
SILICON MICROSEGREGATION IN CAST IRON 67-02 M13-61911
QUANTITATIVE EVALUATION OF THE DISTRIBUTION OF SILICON IN MALLEABLE CAST IRON 67-02 M13-62276

SILICON, SEMICONDUCTOR DEVICES
EVAPORATED SILICON THIN-FILM TRANSISTORS 67-07 M16-73183

SILICON, SEMICONDUCTORS
IMPURITY REDISTRIBUTION IN THERMAL OXIDATION OF SILICON 67-01 M03-58316
METALLURGY IN THE SEMICONDUCTOR INDUSTRY 67-04 M16-68044
RELATION OF DEGREE OF VACUUM DURING EVAPORATION TO THE CLEANLINESS OF THE METAL-SEMICONDUCTOR CONTACT 67-05 M16-68568
TECHNIQUES FOR MEASURING THE TWIN SPACING IN DENDRITES AND WEBS OF SEMICONDUCTORS 67-06 M14-71409
POLYGONIZATION IN SILICON MONOCRYSTAL 67-10 M13-80026
THE MICROSTRUCTURE OF THE MO-BASE FUSION ZONE IN SI-THYRISTOR DEVICES 67-11 M13-80836
ELECTRICAL AND OPTICAL PROPERTIES OF SNO2-SI HETEROJUNCTIONS 67-11 M15-80823
PHOTOVOLTAIC PROPERTIES OF CDS-P-TYPE SI HETEROJUNCTION CELLS 67-11 M15-80825
PREPARATION AND PROPERTIES OF GAAS-SI HETEROJUNCTIONS BY SOLUTION GROWTH METHOD 67-11 M16-80814
EFFECTS OF IMPERFECTIONS ON THE FORWARD-BLOCKING BEHAVIOR OF DIFFUSED-ALLOYED SILICON DEVICES 67-11 M16-80833
SOLUBILITY EFFECTS OF IMPLANTED IONS IN SEMICONDUCTORS 67-11 M16-81204
MICROMACHINING FOR MICROELECTRONICS 67-11 M16-81489
PHYSICAL FUNDAMENTALS OF SE- AND SIBASED RECTIFIERS 67-11 M16-81531
CURRENT OSCILLATIONS IN CO-DOPED SI P-I-N STRUCTURES 67-12 M15-83014
ELECTRICAL PROPERTIES OF SEMICONDUCTOR SURFACES 67-12 M15-83227
ELECTRONIC EFFECTS IN THE ELASTIC CONSTANTS OF N-TYPE SILICON 67-12 M17-82532

SILICON, SINGLE CRYSTALS
AN ABSOLUTELY PRECISE DETERMINATION OF THE LATTICE CONSTANTS OF SI SINGLE CRYSTALS BY ELECTRON DIFFRACTION 67-07 M13-72757
DIFFUSION OF NICKEL IN SILICON 67-08 M14-75221
SILICON STRIP CRYSTALS AND THEIR APPLICATION IN MICROELECTRONICS 67-11 M12-81432
THE NATURE OF THE SOURCE OF DISLOCATION LOOPS GENERATED BY GOLD DIFFUSION INTO SILICON CRYSTALS 67-12 M13-82674
THE INFLUENCE OF CARBON ON PRECIPITATION OF COPPER IN SILICON SINGLE CRYSTALS 67-12 M14-82004

SILICON, SUBSTRATES
CHEMICAL VAPOR DEPOSITION OF MO ONTO SI 67-05 M12-68630

SILICON, SUPERCONDUCTIVITY
SUPERCONDUCTIVITY OF GERMANIUM AND SILICON AT HIGH PRESSURE 67-02 M16-60820

SILICON, SURFACE PROPERTIES
SURFACE STATES ON CLEAN SILICON 67-03 M16-65914
SURFACE EFFECTS OF RADIATION ON SEMICONDUCTOR DEVICES 67-04 M16-66140

SILICON, TERNARY SYSTEMS
THE GA-AS-SI TERNARY PHASE SYSTEM 67-02 M13-59453
THE TERNARY CR-CO-SI SYSTEM 67-02 M13-59888
THE ISOTHERMIC SHIFT AT ORDINARY TEMPERATURE OF THE URANIUM-CARBON-SILICON DIAGRAM 67-02 M13-61023
THE URANIUM-IRON-SILICON SYSTEM. THE NEW PHASE U2FESI3 67-04 M13-67108
STUDY OF THE EQUILIBRIUM OF FOUR SOLID PHASES IN THE TERNARY SYSTEM U-C-SI 67-04 M14-67454
INVESTIGATION OF THE CE-SI-GE SYSTEM 67-05 M14-68646
CRSI2-MOSI2 DIAGRAM 67-06 M13-70170
TRIANGULATION OF THE SYSTEM C-SI-BE 67-06 M13-70774
EXTENT AND LATTICE PARAMETERS OF THE LAVES PHASE FIELD IN THE FE-NB-SI SYSTEM 67-07 M13-74174
THE W-V-SI SYSTEM 67-08 M13-75436
THE METASTABLE EQUILIBRIUM DIAGRAM OF THE FE-C-SI SYSTEM 67-09 M13-76944
THE MOLYBDENUM-IRON-SILICON SYSTEM 67-09 M13-77758
CONSTITUTIONAL STUDIES ON THE TERNARY SYSTEM PLUTONIUM-MOLYBDENUM-CARBON, PLUTONIUM-SILICON-CARBON AND PLUTONIUM-THORIUM-CARBON 67-09 M14-76345
CONTRIBUTION TO THE STUDY OF THE CHEMICAL ACTIVITY OF THE ELEMENTS PHOSPHORUS, SULPHUR, SILICON, COPPER AND CHROMIUM IN MOLTEN IRON SOLUTIONS SATURATED WITH CARBON 67-09 M14-77343
A CLARIFICATION OF THE PHASES OCCURRING IN ALUMINIUM-RICH ALUMINIUM-IRON-SILICON ALLOYS, WITH PARTICULAR REFERENCE TO THE TERNARY PHASE ALPHA-ALFESI 67-10 M13-78450
THE TERNARY CR-FE-SI SYSTEM 67-12 M13-82124
PHASE EQUILIBRIA IN THE TI-CO-SI SYSTEM 67-12 M13-82423
THE TITANIUM-NICKEL-SILICON SYSTEM 67-12 M13-82492

SILICON, THERMAL PROPERTIES
DIFFUSED SEMICONDUCTOR LOW TEMPERATURE THERMOMETERS 67-01 M19-57225
ANHARMONIC CONTRIBUTIONS TO THE HEAT CAPACITIES OF SILICON AND GERMANIUM 67-03 M16-65035
LOW-TEMPERATURE THERMAL CONDUCTIVITY OF FAST-NEUTRON-IRRADIATED SILICON AND GERMANIUM 67-07 M15-72626

SILICON, THIN FILMS
FORMATION OF SIO2 FILMS BY OXYGEN-ION BOMBARDMENT 67-02 M14-59073
IMPURITY DISTRIBUTION IN EPITAXIAL FILMS AFTER OXIDATION 67-03 M14-65771
SILICON-ON-SAPPHIRE APPROACH AFFORDS FREEDOM AND FLEXIBILITY 67-05 M12-68700
MEASUREMENT OF FILM THICKNESS USING INFRARED INTERFERENCE 67-10 M19-79999

SILICON, TRANSISTORS
MANUFACTURE AND TESTING OF TRANSISTORS

67-06 M16-70234

SILICON, TRANSPORT PROPERTIES
THE TEMPERATURE DEPENDENCE OF THE DEFECT ELECTRON MOBILITY IN SILICON CRYSTALS 67-02 M15-61509
PROPERTIES OF EPITAXIAL SILICON FILMS GROWN BY VACUUM EVAPORATION 67-02 M15-61659
DEPENDENCE OF THE TRANSVERSE HALL EFFECT IN P-TYPE SILICON ON THE MAGNETIC FIELD INTENSITY 67-03 M16-65634
SOLID-STATE ELECTRONICS PT. 2. PROPERTIES OF SEMICONDUCTORS 67-03 M16-65669
EFFECTS OF OXYGEN AND DOPANT ON LIFE-TIME IN NEUTRON-IRRADIATED SILICON 67-03 M16-65743
NEGATIVE MAGNETORESISTANCE IN THE METALLIC IMPURITY CONDUCTION 67-04 M16-66783
AN EXPERIMENTAL INVESTIGATION OF THE HALL EFFECT IN THE HOPPING REGION 67-04 M16-66784
MAGNETORESISTANCE OF HEAVILY DOPED N-TYPE SILICON 67-04 M16-66785
INFLUENCE OF AN ELECTRIC FIELD ON THE CAPTURE AND SCATTERING OF HOLES IN BORON-DOPED SILICON 67-06 M15-70515
RECOMBINATION IN HIGH-RESISTIVITY SILICON 67-06 M16-70525
CONDUCTIVITY AND FIELD EFFECT OF PURE SILICON CLEAVAGE SURFACES 67-06 M16-70993
INFLUENCE OF UNIAXIAL COMPRESSION ON THE JUMP CONDUCTIVITY IN P-SI 67-06 M16-71925
RELATIONS BETWEEN ELECTRICAL NOISE AND DISLOCATIONS IN SILICON 67-07 M15-72633
NEGATIVE PHOTOCONDUCTIVITY IN GOLD-DOPED SILICON 67-07 M15-72662
HOT-CARRIER D-C CONDUCTION IN ELEMENTAL SEMICONDUCTORS 67-07 M16-73181
EFFECT OF STRESS ON GERMANIUM AND SILICON P-N JUNCTIONS 67-08 M16-74605
UNIT-CUBE EXPRESSION FOR SPACE-CHARGE RESISTANCE 67-08 M16-75708
MEASUREMENTS OF CONDUCTIVITY AND PERMITTIVITY OF SEMICONDUCTORS AT MICROWAVE FREQUENCIES 67-10 M15-78724
STUDY OF ELECTRON LIFETIME IN P-SI 67-11 M15-80622
TUNNELING IN METAL-OXIDE-SILICON STRUCTURES 67-11 M16-80537
IMPROVEMENT OF MINORITY CARRIER LIFETIME IN SILICON DIODES 67-11 M16-80839
NEUTRON-INDUCED TYPE CHANGES IN P-TYPE SILICON 67-11 M16-81691

SILICON, WELDING
PRESSURE MICROWELDING IN THE MANUFACTURE OF SEMICONDUCTOR APPARATUS 67-04 M11-67156
CALCULATING THE HEATING PROCESS DURING LASER WELDING OF METALS 67-10 M11-78401
TEMPERATURE DISTRIBUTION DURING PRESSURE WELDING WITH INDIRECT PULSE HEATING 67-12 M19-82628

SILICON, X RAY DIFFRACTION
FINDING MICROFOCUS OF X-RAY UNIT EMPLOYING TELEFOCUS ELECTRON BEAM ONE-STEP REDUCING TECHNIQUE AND ITS APPLICATION 67-05 M14-68534

SILICON BASE ALLOYS, ELECTRICAL PROPERTIES
THE RELATION BETWEEN DAMPING BEHAVIOR AND CONSTITUTION OF QUENCHED ALUMINIUM-COPPER-MAGNESIUM-SILICON ALLOYS 67-05 M15-68694

SILICON BASE ALLOYS, MELTING
PRODUCING SI-AL ALLOY FROM UNBENEFICIATED KAOLINS 67-01 M03-57276
SELECTING OPTIMUM CHARGE COMPOSITION FOR THE PRODUCTION OF SILICOCALCIUM 67-05 M04-68325
SELECTION OF OPTIMUM CHARGE COMPOSITION FOR PRODUCING SILICOCALCIUM 67-07 M04-72853

SILICON BASE ALLOYS, PHYSICAL PROPERTIES
INVESTIGATION OF THE STRUCTURE AND SOME ELECTRIC CHARACTERISTICS OF CHROMOSILICON FILMS IN THE PROCESS OF THEIR HEAT TREATMENT 67-06 M15-71473
INVESTIGATION OF THE STRUCTURE AND CERTAIN ELECTRICAL CHARACTERISTICS OF CHROMOSILICON FILMS DURING HEAT TREATMENT 67-12 M15-82794

SILICON BASE ALLOYS, REFINING
TECHNOLOGY FOR THE PRODUCTION OF PRIMARY SILICON-ALUMINUM ALLOY --SILUMIN-- WITHOUT USING ALUMINA IN THE CHARGE 67-02 M04-59862

SILICON BASE ALLOYS, THERMOCOUPLES
HIGH-TEMPERATURE THERMOCOUPLE ELEMENTS OF GE-SI MIXED CRYSTALS FOR THERMAL GENERATORS 67-07 M20-74023

SILICON BASE ALLOYS, THERMODYNAMICS
CALCULATING THE MAXIMUM CONCENTRATION OF GERMANIUM AND SILICON SOLID SOLUTIONS ON A SOLIDUS CURVE 67-03 M14-65588
THERMODYNAMICS OF MNSI1.70 ALLOY 67-04 M15-67601

SILICON BRONZES, HEAT TREATMENT
THE HEAT TREATMENT OF SILICON BRONZES 67-10 M10-79653

SILICON CARBIDE
PROPERTIES OF SILICON CARBIDE WITH HIGH-REFRACTORY OXIDE ADDITIONS 67-04 M05-67817

SILICON CARBIDE, ABRASIVES
EFFECT OF HEAT TREATMENT ON MECHANICAL PROPERTIES OF ABRASIVE GRAIN 67-08 M17-75569

SILICON CARBIDE, BONDING
INVESTIGATION OF SILICON CARBIDE BRICK 67-03 M05-65356

SILICON CARBIDE, CERMETS
A CERAMIC ALLOY FOR ELEVATED TEMPERATURE DUTY 67-04 M17-66850

SILICON CARBIDE, COATING
METAL COATED WHISKERS 67-07 M09-73361

SILICON CARBIDE, COATINGS
CHARACTERISTICS OF SILICON CARBIDE PRODUCED BY THERMAL DECOMPOSITION OF TRIMETHYLCHLOROSILANE 67-05 M05-69570

SILICON CARBIDE, COMPOSITE MATERIALS
STRUCTURE AND PROPERTIES OF COMPOUNDS OF ALUMINUM WITH SILICON CARBIDE 67-05 M17-68387
BI-COMPOSITIONAL CARBON-SILICA FIBERS 67-07 M09-73353
A COMPATIBILITY STUDY OF SIC AND B FIBERS IN BE, FE, CO, AND NI MATRICES 67-07 M09-73357

SILICON CARBIDE, CORROSION
CORROSION PHENOMENA AT REFRACTORY TAMPING MASSES IN THE COMBUSTION CHAMBERS OF HIGH-PRESSURE STEAM POWER STATIONS 67-02 M18-62027

SILICON CARBIDE, CRYSTAL GROWTH
NUCLEATION OF EPITAXIAL SIC ON SI SURFACES 67-02 M14-61081
STUDY ON ELECTROPHORETIC DEPOSITION 67-05 M12-69354
EPITAXIAL GROWTH OF BETA-SIC BY CARBONIZING SILICON 67-05 M14-68567

SILICON CARBIDE, DEPOSITION
CONTINUOUS SILICON CARBIDE FILAMENTS 67-07 M09-73351

SILICON CARBIDE, DIFFUSION
DIFFUSION OF NITROGEN INTO SILICON CARBIDE SINGLE CRYSTALS DOPED WITH ALUMINUM 67-02 M14-61502

SILICON CARBIDE, ELECTRICAL PROPERTIES
NEGATIVE DIFFERENTIAL RESISTANCE AND INDUCTIVE EFFECTS IN SILICON CARBIDE 67-06 M16-71761
NEGATIVE DIFFERENTIAL RESISTANCE AND INDUCTIVE EFFECTS IN SILICON CARBIDE 67-06 M16-71919

SILICON CARBIDE, FIBER METALLURGY
FIBER-REINFORCED METALS 67-07 M09-72752
SILICON CARBIDE FILAMENT REINFORCED EPOXY RESIN COMPOSITES 67-07 M09-73337
WHISKER COMPOSITE TECHNOLOGY 67-07 M09-73343
SINGLE CRYSTAL FIBER REINFORCEMENTS 67-07 M09-73344
THE FABRICATION AND MECHANICAL PROPERTIES OF SIC FILAMENT-METAL MATRIX COMPOSITES 67-07 M09-73366

SILICON CARBIDE, MECHANICAL PROPERTIES
HIGH TEMPERATURE STRENGTH AND DELAYED FRACTURE IN CERAMIC MATERIALS 67-06 M17-70542

SILICON CARBIDE, OPTICAL PROPERTIES
IMPURITY-SENSITIVE INFRARED ABSORPTION IN N-TYPE ALPHA-SIC 67-04 M16-67474
ENERGY AND KINETIC PARAMETERS OF NITROGEN IMPURITY IN SILICON CARBIDE CRYSTALS 67-06 M16-71769

SILICON CARBIDE, POWDER METALLURGY PARTS
PROTECTION TUBES AND HIGH-TEMPERATURE THERMOCOUPLES WITH SILICON-CARBIDE THERMOELECTRODES 67-02 M09-61786

SILICON CARBIDE, REACTIONS /CHEMICAL/
MODIFIED SILICON-CARBIDE CONTINUOUS FILAMENTS 67-07 M09-73352

SILICON CARBIDE, REFRACTORIES
PREPARATION OF REFRACTORIES FROM CARBORUNDUM WITH NITRIDE BINDER AND FROM SI3N4-SIC MATERIALS 67-02 M05-62110

SILICON CARBIDE, SINGLE CRYSTALS
CRYSTAL GROWTH AND POLYTYPISM 67-06 M14-71033

SILICON CARBIDE, THERMAL PROPERTIES
THERMAL CONDUCTIVITY OF SILICON CARBIDE AT HIGH TEMPERATURES 67-12 M15-82786

SILICON CARBIDE, TRANSPORT PROPERTIES
EVALUATION OF TRACE IMPURITIES IN THE PREPARATION OF HIGH-PURITY SILICON CARBIDE 67-02 M16-59451
HIGH ELECTRON MOBILITY OF CUBIC SIC 67-03 M16-65890
ELECTRON MOBILITIES IN SIC POLYTYPES 67-05 M16-69205
ELECTRON MOBILITY MEASUREMENTS IN SIC POLYTYPES 67-05 M16-69206

SILICON CARBIDE, VAPOR DEPOSITION
PYROLYTIC DEPOSITS OF SILICON CARBIDE 67-04 M05-66128

SILICON CARBIDE, WHISKERS /METALS/
STRENGTH CHARACTERISTICS OF WHISKER CRYSTALS, MICROCRYSTALS, AND MACROCRYSTALS 67-03 M14-65341

SILICON COMPOUNDS
SEE ALSO SILICA
SILICON CARBIDE
PRODUCTION OF SILICOMANGANESE BY A TOTALLY ENCLOSED HEARTH ROTATING TYPE LARGE ELECTRIC FURNACE 67-02 M04-60039

SILICON COMPOUNDS, COATINGS
STRESS IN FILMS OF SILICON MONOXIDE 67-03 M12-65751

SILICON COMPOUNDS, CRYSTAL GROWTH
PRELIMINARY EXPERIMENTS ON FABRICATING MOS TRANSITORS AND MOS INTEGRATED CIRCUITS 67-01 M16-58315
GENERATION OF A TWO-DIMENSIONAL SILICON CARBIDE LATTICE 67-06 M14-71428
GROWTH MECHANISMS AND CRYSTALLINE QUALITY OF DIAMOND TYPE COMPOUNDS AND CRYSTALS IN THE 3-5 AND 2-6 GROUPS 67-07 M14-73926

SILICON COMPOUNDS, CRYSTAL LATTICES
CRYSTALLOGRAPHY OF SIP AND SIAS SINGLE CRYSTALS AND OF SIP PRECIPITATES IN SI 67-03 M13-65872

SILICON COMPOUNDS, ELECTRICAL PROPERTIES
IDEAL MOS CURVES FOR SILICON 67-01 M15-57221
LONG-TIME EFFECT OF EXTERNAL FIELDS ON SURFACE SILICON OXIDE CONDUCTIVITY 67-02 M15-61535
THE SERVICE LIFE OF CARBORUNDUM ELECTRIC HEATERS 67-03 M15-65906
ELECTRONIC CONDUCTION IN THERMALLY GROWN SILICON DIOXIDE FILMS 67-03 M16-65752
INFLUENCE OF CONDENSATION RATE ON ELECTRICAL PROPERTIES OF SILICIDE THIN FILMS 67-06 M15-71474
INVESTIGATION OF THE EFFECT OF CONDENSATION RATE OF SILICIDE FILMS ON THEIR ELECTRICAL CHARACTERISTICS 67-12 M15-82795

SILICON COMPOUNDS, MECHANICAL PROPERTIES
TRY SILICON NITRIDE 67-01 M05-57217

SILICON COMPOUNDS, MICROSTRUCTURE
THE EFFECT OF HEAT TREATMENT ON SILICON NITRIDE LAYERS ON SILICON 67-07 M13-72942

SILICON COMPOUNDS, PHYSICAL PROPERTIES
DENSITY OF IRON OXIDE-SILICA MELTS 67-06 M15-69943
SILICON OXYNITRIDE REFRACTORIES 67-09 M05-77966

SILICON COMPOUNDS, POWDER METALLURGY
SOME PROBLEMS IN PRODUCING PARTS FROM SILICON NITRIDE 67-02 M09-59781

SILICON COMPOUNDS, QUATERNARY SYSTEMS
PHASE RELATIONS IN THE SYSTEM FEO-FE2O3-ZRO2-SIO2 67-07 M14-72826
STUDY OF THE LIQUIDUS TEMPERATURES OF THE SYSTEM CAO-P2O-SIO2-IRON OXIDE. PT. 1. 15 PER CENT FEO LEVEL 67-08 M13-76225

SILICON COMPOUNDS, REACTIONS /CHEMICAL/
KINETICS OF REDUCING SILICA BY AN IRON-CARBON MELT 67-02 M02-62227
CARBOTHERMIC REDUCTION OF SILICA 67-04 M14-67558

SILICON COMPOUNDS, SEMICONDUCTORS
THE PREPARATION AND PROPERTIES OF ZNSIAS2, ZNGEP2 AND CDGEP2 SEMICONDUCTING COMPOUNDS 67-03 M16-65394
THERMAL CONDUCTIVITY OF SILICON, GERMANIUM, 3-5 COMPOUNDS AND 3-5 ALLOYS 67-05 M15-69600

SILICON COMPOUNDS, SOLUBILITY
STUDY ON THE DISSOLUTION OF SUSPENDED OXIDE PARTICLES IN MOLTEN IRON 67-06 M04-71746

SILICON COMPOUNDS, SUPERCONDUCTIVITY
PARAMAGNETIC SUSCEPTIBILITY IN THE V3SI TYPE OF COMPOUNDS IN THE NORMAL STATE 67-11 M16-81390
V51 KNIGHT SHIFT IN THE V3SI TYPE OF COMPOUNDS IN THE NORMAL STATE 67-11 M16-81391

SILICON COMPOUNDS, SUPERCONDUCTORS
LATTICE INSTABILITY OF HIGH-TRANSITION-TEMPERATURE SUPERCONDUCTORS. PT. 1. POLYCRYSTALLINE A-15 COMPOUNDS 67-05 M16-69516
LATTICE INSTABILITY OF HIGH-TRANSITION-TEMPERATURE SUPERCONDUCTORS. PT. 2. SINGLE-CRYSTAL V3SI RESULTS 67-05 M16-69517

SILICON COMPOUNDS, TERNARY SYSTEMS
PHASE EQUILIBRIA IN THE SYSTEM MNO-MN2O3-SIO2 67-11 M04-80117

SILICON COMPOUNDS, THERMODYNAMICS
HEAT CAPACITY AND STRUCTURE OF VITREOUS SILICA AND DIAMOND-LIKE LATTICES. PT. 1 67-07 M15-72936

SILICON COMPOUNDS, THIN FILMS
VAPOR GROWTH OF SIO2 AND TIO2 FILMS 67-01 M15-58313
MEASUREMENTS OF INFRARED ABSORPTION OF THERMALLY GROWN AND VAPOR-GROWN SILICON OXIDE FILMS 67-01 M15-58314

SILICON COMPOUNDS, TRANSPORT PROPERTIES
THE IMPORTANCE AND RESEARCH PROBLEMS OF SILICON OXIDE 67-01 M16-58311
HEAT CONDUCTIVITY OF SILICON CARBIDE AT HIGH TEMPERATURES 67-06 M15-71465
PHOTORESPONSE STUDIES OF VAPOR-DEPOSITED MO-SI SYSTEMS 67-07 M15-72631

SILICON MANGANESE STEELS, MECHANICAL PROPERTIES
STRUCTURE AND PROPERTIES OF CAVITATION-RESISTANT 30KH10G10 STEEL 67-05 M17-69307
FATIGUE CRACK PROPAGATION IN A SI-MN STEEL UNDER CONSTANT DEFLECTION 67-08 M17-75972

SILICON STEELS
SEE ALSO ELECTRICAL STEELS
SILICON MANGANESE STEELS

SILICON STEELS, COATING
AUTOMATIC BUILDUP UNDER OXIDIZING FLUX OF STATIONARY SCREEN GRATES OF A SINTERING MACHINE 67-01 M12-58213
ALLOY FORMATION IN HOT DIP GALVANIZING.. SOME CURRENT EXPERIMENTS 67-09 M12-77653

SILICON STEELS, CORROSION
OXIDATION OF SOME BRONZES AND SILICON IRON IN WATER VAPORS 67-06 M18-70173
FUNDAMENTAL STUDIES ON CORROSION BEHAVIORS OF IRON-SILICON ALLOYS. PT. 1. ANODIC BEHAVIORS OF IRON-SILICON ALLOY 67-10 M18-79606

SILICON STEELS, CRACK PROPAGATION
MECHANISM AND KINETICS OF DUCTILE AND BRITTLE FRACTURE OF SILICON IRON 67-01 M17-57635

SILICON STEELS, CRYSTAL LATTICES
THE ROLE OF DISLOCATIONS IN RECRYSTALLIZATION 67-03 M14-65555
THE NUCLEATION OF MECHANICAL TWINS IN POLYCRYSTALLINE 3 PER CENT SILICON-IRON 67-04 M13-66072
EFFECT OF DEGREE OF DEFORMATION ON TEXTURES OF DEFORMATION AND RECRYSTALLIZATION IN SILICON IRON 67-05 M17-68558
EFFECTS OF DEGREE OF DEFORMATION ON DEFORMATION AND RECRYSTALLIZATION TEXTURES IN SILICON IRON 67-07 M17-72469
SPONTANEOUSLY AND ARTIFICIALLY RECRYSTALLIZED TEXTURES IN ROLLED 3 PER CENT SILICON-IRON SINGLE CRYSTALS 67-09 M13-77716
DISLOCATION MOTION IN SILICON IRON IN MACROELASTIC STRESS 67-10 M13-79842
CHANGE IN THE DISLOCATION STRUCTURE OF SILICON IRON DURING CREEP 67-11 M13-80721
ELECTRON MICROSCOPIC STUDY OF POLYGONIZATION AND PRIMARY RECRYSTALLIZATION IN COLD ROLLED TRANSFORMER STEEL 67-11 M14-80727
INFLUENCE OF TYPE OF PLASTIC STRAIN ON THE SECONDARY RECRYSTALLIZATION TEXTURE OF FE-3 PER CENT SI ALLOY 67-11 M14-80732
ORDERING AND DISLOCATION PAIRS IN AN FE-6.0 WT PER CENT SI ALLOY 67-11 M14-81357
THE EFFECT OF THE TYPE OF SPLITTING OF SCREW DISLOCATIONS ON THE SLIP GEOMETRY IN BCC METALS 67-12 M13-82003

SILICON STEELS, HEAT TREATMENT
DIMENSIONAL CHANGES IN HEAT TREATING OPERATIONS AND THEIR PREVENTION BY PROPER DESIGN WITH EMPHASIS ON SIMPLE HEAT TREATING METHODS 67-01 M10-58722
ANNEALING OF SILICON-IRON SINGLE CRYSTALS 67-02 M14-60608
THE PROPERTIES OF LOW-CARBON MARTENSITE TEST

SILICON STEELS

METHODS AND STEELS UTILIZED 67-02 M17-61696
THE PROPERTIES OF LOW-CARBON MARTENSITE. RESULTS 67-02 M17-61697
INFLUENCE OF AUSFORMING AND ALLOYING ON STRUCTURE AND PROPERTIES OF SILICON SPRING STEEL 67-06 M10-70071
EFFECT OF THERMOMECHANICAL TREATMENT AND ALLOYING ON THE STRUCTURE AND PROPERTIES OF SILICON SPRING STEELS 67-10 M08-78817

SILICON STEELS, HEATING
KINETICS OF INDUCTION HEATING OF SILICON-ALLOYED STEEL 67-03 M10-65968

SILICON STEELS, MAGNETIC PROPERTIES
ON THE INFLUENCE OF DEFECTS ON THE MAGNETIZATION PROCESSES TAKING PLACE ON THE SURFACE OF POLYCRYSTALLINE FE-SI SAMPLES 67-01 M15-58797
MAGNETIC PROPERTIES OF GRAIN ORIENTED SILICON STEEL UNDER SINUSOIDAL EXCITING CURRENT 67-02 M15-59081
THE FORM OF LOCKING DOMAINS INSIDE SILICON IRON CRYSTALS 67-04 M15-67375
THERMOMAGNETIC TREATMENT OF 66-PERMALLOY AND SILICON IRON IN A ROTATING MAGNETIC FIELD 67-05 M15-68257
DEVELOPMENT AND APPLICATION OF LOW-NOISE 6.5 PER CENT SI-FE SHEET 67-07 M15-73516
DOMAIN-WALL MOTION IN GRAIN-ORIENTED SILICON STEEL IN CYCLIC MAGNETIC FIELDS 67-07 M15-73517
THE FREQUENCY DEPENDENCE OF DEMAGNETIZATION AND MAGNETIC LOSS IN SILICON IRON 67-10 M15-78567
X-RAY DIFFRACTION CONTRAST ON FERROMAGNETIC DOMAIN WALLS IN FE-SI SINGLE CRYSTALS 67-10 M15-79012
INFLUENCE OF DISLOCATION STRUCTURE ON COERCIVE FORCE OF SILICON IRON 67-11 M13-80740
THE RELATIONSHIP BETWEEN THE MAGNETIC ANISOTROPY AND MAGNETIZATION ENERGY CONSTANTS OF CUBIC FACE CENTERED POLYCRYSTALLINE MATERIALS 67-11 M15-80722
DEPENDENCE OF PERMEABILITY OF GRAIN ORIENTED IRON-SILICON SHEET ON MAGNETIZATION FREQUENCY 67-12 M15-82224

SILICON STEELS, MECHANICAL PROPERTIES
FURTHER INVESTIGATION OF RELAXATION PHENOMENA IN FE-SI-C--N-- ALLOYS 67-01 M17-57584
INVESTIGATION OF THE EFFECT OF HIGH-TEMPERATURE AUSROLLING ON THE MECHANICAL PROPERTIES OF SPRING STEEL 67-01 M17-58032
THE PLASTIC DEFORMATION AND FRACTURE OF IRON-3 PER CENT SILICON IN THE TEMPERATURE RANGE 295 TO 473 K 67-02 M17-58957
MECHANICAL PROPERTIES OF SOME AUSTEMPERED STEEL TYPES USED FOR PLOWSHARES 67-04 M17-67822
INFLUENCE OF SILICON ON THE ELASTICITY OF SPRING STEELS 67-05 M17-68386
X-RAY INVESTIGATION ON THE DEFORMATION AND FATIGUE FRACTURE OF SPRING STEEL IN PLANE BENDING 67-05 M17-68465
EFFECT OF THE NUMBER OF ROLLING PASSES ON THE STRENGTH, DUCTILITY, MICROSTRUCTURE AND FINE CRYSTALLINE STRUCTURE OF SILICON STEELS AS A RESULT OF HIGH-TEMPERATURE AUSROLLING 67-05 M17-69270
RESIDUAL STRESSES AFTER THERMOMECHANICAL WORKING ASSOCIATED WITH IRREGULAR PLASTIC DEFORMATION 67-06 M17-70108
EFFECT OF HIGH-TEMPERATURE THERMOMECHANICAL WORKING ON THE CYCLIC BEHAVIOR OF HIGH-CARBON STEELS 67-06 M17-70109
THE TEMPER BRITTLENESS OF SILICON IRON 67-06 M17-70217
DUCTILITY AND STRENGTH OF IRON CONTAINING 3.1 TO 5.1 PER CENT SI 67-06 M17-70806
ELECTRON MICROPROBE STUDY OF THE EFFECT OF ABRASION OF THE SURFACE OF ALLOY CRYSTALS 67-06 M17-71031
NOTCH EFFECTS ON SLIP, TWINNING AND FRACTURE IN SILICON-STEEL 67-07 M17-72882
ON BAUSCHINGERS EFFECT DURING BENDING OF SPRING STEEL STRIP 67-07 M17-73173
ORIENTATION DEPENDENCE OF YIELD STRESS IN 4.4 PER CENT SILICON IRON SINGLE CRYSTALS 67-09 M17-77929
THE EFFECTS OF TEMPERATURE AND COMPOSITION ON CRACK PROPAGATION IN IRON-SILICON SINGLE CRYSTALS 67-12 M17-82856

SILICON STEELS, METAL WORKING
THE COEFFICIENT OF FRICTION IN COLD ROLLING 67-03 M07-65938
WEAR ON SHEARING TOOLS--WEAR ON CUTTING EDGES OF BLANKING TOOL FOR SQUARE PARTS 67-06 M17-72264
FORMATION OF COLD ROLLED TEXTURE AND RECRYSTALLIZED TEXTURE IN SINGLE CRYSTALS OF 3 PER CENT SILICON IRON. PT. 1. 67-08 M13-75154

SILICON STEELS, METALLOGRAPHY
SOME CRYSTALLOGRAPHICAL APPLICATIONS OF THE GONIOMICROSCOPE 67-02 M13-60264
THE INFLUENCE OF FOREIGN METAL IONS IN CHROMIC AND PHOSPHORIC ACID ELECTROLYTES ON THE FORMATION OF ETCH FIGURES ON IRON-SILICON FILMS 67-03 M13-65903

SILICON STEELS, MICROSTRUCTURE
CERTAIN PROBLEMS IN REMOVING GASES AND NONMETALLIC OXIDE INCLUSIONS DURING MELTING OF TRANSFORMER STEEL 67-04 M04-66902
VARIATION IN SURFACE ENERGY AS A FUNCTION OF THE CRYSTALLOGRAPHIC ORIENTATION IN SILICON IRON SINGLE CRYSTALS 67-04 M16-67656
LOCAL STRAINS DURING INTERACTION OF SLIP BANDS AND TWINS WITH BARRIERS 67-05 M13-69651
COALESCENCE OF SULFIDES DURING SECONDARY GROWTH IN 3 PER CENT SILICON-IRON 67-07 M14-73515.
NEW INVESTIGATIONS OF HATCH ETCHING AS INFLUENCED BY ORIENTATION IN AL, CU AND FE-SI 67-10 M13-79483
FORMATION OF COLD ROLLED TEXTURE AND RECRYSTALLIZED TEXTURE IN SINGLE CRYSTALS OF 3 PER CENT SILICON IRON. PT. 2. RECRYSTALLIZED TEXTURE 67-11 M13-80797
EFFECT OF IMPURITIES ON THE SECONDARY RECRYSTALLIZATION IN SILICON IRON 67-11 M14-80751
ON STRUCTURAL DEFECTS OCCURRING DURING TWINNING OF SILICON IRON 67-12 M13-82412
EFFECTS OF STRESS ON THE DEFORMATION ASSOCIATED WITH SLIP ALONG THE GRAIN BOUNDARIES DURING CREEP AT 600 C. IN AN IRON ALLOY CONTAINING 3 PER CENT SI 67-12 M13-82485

SILICON STEELS, PHASE TRANSFORMATIONS
EFFECT OF IMPURITIES ON THE DEVELOPMENT OF --110-- --001-- SECONDARY RECRYSTALLIZATION TEXTURE IN 3 PER CENT SILICON IRON 67-09 M14-76758
DECOMPOSITION OF AUSTENITE IN CAST SILICON STEELS AT SUBCRITICAL TEMPERATURES 67-10 M14-79329

SILICON STEELS, PHYSICAL PROPERTIES
DENSITY OF FE-C-SI AND FE-C-MN ALLOYS IN SOLID AND LIQUID STATE 67-01 M15-57466
DENSITY OF FE-C-SI AND FE-C-MN ALLOYS IN THE SOLID AND LIQUID STATES 67-06 M15-70754
THE SOLUBILITY OF SULFUR IN SILICON IRON 67-07 M15-73514
THE INFLUENCE OF THE OXYGEN ADSORPTION ON THE SURFACE ENERGY OF FCC NICKEL AND BCC SILICON IRON 67-07 M15-73927

SILICON STEELS, POURING
TEMPERATURE CYCLES OF INGOT MOLDS DURING USE. PT. 1. DETERMINATION OF TEMPERATURE CYCLES OF INGOT MOLDS MOUNTED ON BOGIES 67-06 M04-71823

SILICON STEELS, REACTIONS /CHEMICAL/
SULPHUR POTENTIALS IN IRON AND IN IRON-MANGANESE ALLOYS 67-06 M14-70805

SILICON STEELS, REFINING
THE BEHAVIOR OF ALUMINIUM DURING THE ELECTROSLAG REMELTING OF SILICON STEELS 67-04 M04-67672
BEHAVIOR OF PHOSPHORUS DURING MELTING OF NATURALLY-ALLOYED STEEL 67-06 M04-71243
BEHAVIOUR OF PHOSPHORUS WHEN MELTING NATURALLY ALLOYED STEEL 67-08 M04-75712
DEOXIDIZING METAL IN HIGH-CAPACITY ARC FURNACES 67-12 M04-81866

SILICON STEELS, RESIDUAL STRESS
INVESTIGATIONS ON THE FORMATION OF INTERNAL STRESSES FOLLOWING UNIAXIAL PLASTIC TENSILE DEFORMATION OF SILICON ALLOY STEEL 67-06 M17-71866

SILICON STEELS, ROLLING
ROLLING AND RECRYSTALLIZATION TEXTURES OF SILICON IRON CRYSTALS WITH --110-- --001-- ORIENTATIONS 67-09 M13-78216

SILICON STEELS, STAMPING
EXPERIENCE WITH CARBIDE CUTTING TOOLS IN THE PROCESSING OF MAGNETIC CORE SHEETS 67-03 M08-65712

SILICON STEELS, STEEL MAKING
BEHAVIOR OF AL IN THE PROCESS OF ELECTROSLAG

REMELTING OF SILICON STEELS 67-02 M04-60132
SILICON STEELS, SURFACE PROPERTIES
DEVELOPMENT OF RECRYSTALLIZATION TEXTURES IN SILICON IRON AFTER LOW AND MEDIUM DEFORMATIONS 67-04 M14-67614
SILICON STEELS, TEMPERATURE CONTROL
TEMPERATURE CYCLES OF INGOT MOLDS DURING USE. PT. 2. DETERMINATION OF TEMPERATURE CYCLES OF AN INGOT MOLD IN A CASTING PIT 67-08 M19-74737
SILICON STEELS, THIN FILMS
DYNAMIC HYSTERESIS LOOPS IN THIN FILMS OF SI-FE ALLOY 67-12 M15-82223
SILICON STEELS, WELDING
A METHOD OF WELDING SILICON ELECTRIC STEEL STRIPS 67-02 M11-61041
PREPARING THE METAL SURFACE FOR SEMIAUTOMATIC SUBMERGED ARC WELDING OF FILLET WELDS 67-04 M11-67812
SURFACE PREPARATION OF METAL FOR THE SEMI-AUTOMATIC SUBMERGED ARC WELDING OF CORNER JOINTS 67-06 M11-70312
SILICONE PLASTICS
SEE SILICONE RESINS
SILICONE RESINS
MULTI-DUTY COATING FOR NONFERROUS METALS 67-06 M12-70226
SILICONES
SEE SILICONE RESINS
SILICONIZING /COATING/
EFFECT OF IMPURITIES ON THE KINETICS OF VACUUM SILICONIZING OF MOLYBDENUM 67-01 M14-57649
SILICONIZING OF STEEL DURING RAPID HEATING 67-07 M12-74184
RESEARCH INTO THE SILICONIZING OF MOLYBDENUM IN A GLOW DISCHARGE 67-08 M12-75026
UNIFORM SILICON COATINGS ON GRAPHITE BY CHEMICAL VAPOR DEPOSITION 67-09 M12-77141
THERMAL DIFFUSIONAL SILICONIZING AND CHROMIUM-SILICONIZING OF ZHS6-K ALLOY 67-11 M12-81665
SILICOTHERMIC REACTIONS
PRODUCTION OF FERRONIOBIUM 67-04 M04-67776
LOSSES OF REDUCING AGENT WHEN MG AND CA ARE PRODUCED BY THE SILICOTHERMAL METHOD 67-09 M03-77047

SILVER
SILVER--ECONOMICS, METALLURGY, AND USE 67-08 M01-75616

SILVER, ALLOYING ADDITIVE
THE INFLUENCE OF SMALL ADDITIONS OF SILVER ON THE AGEING OF ALUMINIUM ALLOYS.. OBSERVATIONS ON AL-CU-MG ALLOYS 67-02 M10-61842
INFLUENCE OF ADDITION OF AG OR CU ON THE FORMATION OF G-P ZONE IN AL-ZN ALLOY 67-02 M14-59750
EFFECT OF SMALL ADDITIONS OF SILVER ON THE GROWTH OF GALLIUM CRYSTALS FROM THE MELT 67-02 M14-61927
MARTENSITE IN TERNARY CU-ZN-BASED BETA-PHASE ALLOYS 67-03 M14-65079
INFLUENCE OF SMALL AMOUNTS OF SILVER ON THE RECRYSTALLIZATION OF MOLTEN ZONE ALUMINUM 67-03 M14-65560
IMPROVING STRESS CORROSION RESISTANCE OF WELDED AL-ZN-MG ALLOY BY USE OF SILVER-CONTAINING WELDING WIRE 67-04 M18-68027
REACTION RATE OF SULFUR WITH LEAD 67-05 M14-69476
EFFECTS OF ADDING SMALL AMOUNTS OF COPPER AND SILVER ON THE CORROSION OF AL-ZN-MG SYSTEM ALLOYS 67-05 M18-69053
THE EFFECT OF AL-CR AND AG-ZR ADDITIONS ON THE MECHANICAL PROPERTIES AND STRESS CORROSION BEHAVIOR OF HIGH-STRENGTH ALZNMGCU ALLOYS 67-06 M18-71984
SOME NONEQUILIBRIUM EXPERIMENTS ON THE HYDROGEN PERMEATION AND DIFFUSION CHARACTERISTICS OF A 75 PD-25 AG ALLOY 67-10 M14-79604
EFFECT OF SLIGHT SILVER IMPURITIES ON THE ELECTRICAL RESISTANCE OF PALLADIUM 67-10 M15-79633
THE ANNEALING OF QUENCHED-IN VACANCIES IN DILUTE ALUMINIUM ALLOYS 67-11 M10-80302
SILVER, ATOMIC PROPERTIES
A REPLY TO HUME-ROTHERYS NOTE ON THE ENGEL-BREWER THEORY 67-06 M16-71969
COMMENTS ON PAPERS RESULTING FROM HUME-ROTHERYS NOTE-1965 67-06 M16-71970
DISPERSION ENERGIES AND SURFACE TENSIONS OF NOBLE METALS 67-08 M16-75384
MORSE-POTENTIAL EVALUATION OF SECOND- AND THIRD-ORDER ELASTIC CONSTANTS OF SOME CUBIC METALS 67-09 M16-77156
THE EFFECT OF TENSION ON THE FERMI SURFACES OF THE NOBLE METALS 67-09 M16-77525
MOSSBAUER EFFECT IN SURFACE STUDIES--FE57 ON W AND ON AG 67-09 M16-77684
SILVER, ATTENUATION
ELECTRON VISCOSITY AND ULTRASONIC ATTENUATION IN NOBLE METALS 67-05 M16-69813
SILVER, BAND THEORY
ABSORPTION MEASUREMENTS OF COPPER, SILVER, TIN, GOLD AND BISMUTH IN THE FAR ULTRAVIOLET 67-11 M16-80771
SILVER, BINARY SYSTEMS
CALCULATING SOLIDUS CURVES OF GERMANIUM SOLID SOLUTIONS IN GE-CU, GE-AG AND GE-AU SYSTEMS 67-02 M13-61727
PROPERTIES OF THE FREE ENERGY ASSOCIATED WITH THE INTERDIFFUSION OF TWO SOLIDS 67-04 M15-66064
BERYLLIUM-RICH END OF FIVE BINARY SYSTEMS 67-07 M13-73742
THE STRUCTURE OF SOME EUTECTICS WITH HIGH RATIOS OF THE VOLUME FRACTIONS 67-08 M14-76054
PHASE DIAGRAM OF THE PEUDO-BINARY SYSTEM AG2TE-IN2TE3 AND SEMICONDUCTING PROPERTIES OF AGIN9TE14 67-09 M13-77899
PRODUCTION OF NEW PHASES BY ULTRARAPID QUENCHING OF LIQUID ALLOYS 67-11 M10-80246
THE INFLUENCE OF DISPLACEMENT REACTIONS ON THE ELECTROCHEMICAL DETERMINATION OF THE ACTIVITY COEFFICIENT OF ONE CONSTITUENT IN A BINARY ALLOY 67-12 M15-82593
THE MECHANICAL PROPERTIES OF THREE GAMMA BRASS TYPE INTERMEDIATE PHASES--GAMMA CUZN, GAMMA AGZN, AND GAMMA CUCD 67-12 M17-82864
SILVER, BONDING
SILVER BIMETALS 67-08 M11-75634
SILVER, CEMENTATION
AN EXAMINATION OF COPPER AND SILVER CEMENTATION KINETICS WITH METALLIC IRON FROM CHLORIDE SOLUTIONS 67-06 M03-71343
SILVER, CHEMICAL ANALYSIS
METHODS OF DETERMINING GOLD AND SILVER IN RICH PRODUCTS 67-05 M19-68409
THE ANALYTICAL CHEMISTRY OF SILVER 67-08 M19-75632
DIRECT ELECTROCHEMICAL DETERMINATION OF THE OXYGEN CONTENT OF METAL MELTS. PT. 2. INVESTIGATIONS CARRIED OUT ON SILVER, TIN AND LEAD MELTS 67-09 M19-77190
HANDBOOK OF ANALYTICAL CHEMISTRY. PT. 3. QUANTITATIVE ANALYSIS 67-09 M19-77561
SILVER, CHEMICAL PROPERTIES
THE CHEMICAL PROPERTIES OF SILVER 67-08 M15-75621

SILVER, COATING
REDUCTION OF TARNISHING OF ELECTROPLATED SILVER 67-02 M12-59046
NEW DEVELOPMENTS IN THE SURFACE SCIENCE OF ELECTRIC CONTACTS 67-03 M18-65416
SILVER, COATINGS
THE ELECTRIC-SPARK DEPOSITION OF CONTACT METALS ON STATIONARY HEAVY-CURRENT CONTACTS 67-01 M12-58229
PRECIOUS METAL PLATING BATHS AND THEIR PRACTICAL APPLICATIONS 67-01 M12-58303
THE EFFECT OF NONMETALLIC FILMS ON THE CONTACT RESISTANCE BETWEEN ELECTRICAL CONTACTS WHICH ARE ELECTROPLATED WITH SILVER 67-02 M12-59971
DEFINITION OF ELECTROLYTES AND ELECTRODEPOSITS 67-02 M12-62288
DEPOSITION OF THIN FILMS UNDER THE INFLUENCE OF FAST ION IRRADIATION 67-04 M12-67057
SILVER-PLATED/NICKEL-PLATED COPPER WIRE SHOWS INCREASED CORROSION RESISTANCE 67-06 M18-72093
ELECTROPLATING 67-08 M12-75623
VACUUM EVAPORATION OF SILVER 67-08 M12-75637
AGGREGATION OF AG AND AU THIN FILMS THAT ARE DEPOSITED ON CARBON FOILS AT ELEVATED TEMPERATURES AND IN ULTRAHIGH VACUUM 67-08 M14-75164
CONDUCTIVE COATINGS 67-08 M20-75624
PREPARATION OF SILVER CYANIDE BY ELECTROLYSIS 67-10 M12-78522
ELECTROLYTIC GOLD DEPOSITS 67-10 M12-79702
DEFEATING THE RED PLAGUE 67-10 M18-79428
SILVER, COMPOSITE MATERIALS
AN INVESTIGATION OF THE FATIGUE BEHAVIOR OF

SILVER

TUNGSTEN-REINFORCED AND STEEL- REINFORCED SILVER COMPOSITES 67-12 M17-82974

SILVER, CORROSION

PREVENTION OF TARNISHING OF SILVER SURFACE 67-01 M18-58710

CORROSION AND GROWTH OF SILVER CRYSTALS UNDER HYDROTHERMAL CONDITIONS 67-02 M18-59455

THE ESTIMATION OF CORROSION VELOCITY BY MEASURING POLARIZATION RESISTANCE 67-07 M18-72765

THE CORROSION OF SILVER IN CHLORIDE SOLUTIONS UNDER HYDROTHERMAL CONDITIONS 67-12 M18-82296

SILVER, CRYSTAL DEFECTS

THE ENERGY OF DISSOCIATED TRIANGULAR FRANK DISLOCATION LOOPS IN F. C. C. METALS 67-05 M13-68754

DISLOCATION NODE DETERMINATIONS OF THE STACKING FAULT ENERGY IN SILVER-TIN ALLOYS 67-06 M13-70405

SILVER, CRYSTAL GROWTH

ELECTRON DIFFRACTION STUDIES OF THE EPITAXY OF CU SINGLE CRYSTALS. PT. 2. EARLY STAGES OF EPITAXY AND INTERFACIAL DISLOCATION NETWORKS 67-01 M13-57109

THE CONTRAST FROM TWIN BOUNDARIES IN --111-- FILMS OF SILVER 67-02 M13-60806

EVAPORATION AND DEPOSITION RATES, STICKING PROBABILITY, AND BACKGROUND PRESSURE DURING THE PRODUCTION OF THIN FILMS IN VACUUM 67-02 M14-61827

THE FORMATION OF SINGLE CRYSTAL FILMS OF FCC METALS ON ALKALI HALIDE CLEAVAGE PLANES IN ULTRAHIGH VACUUM 67-03 M14-65381

LOW-ENERGY ELECTRON DIFFRACTION STUDIES OF EPITAXIAL GROWTH OF SILVER AND GOLD IN ULTRA-HIGH VACUUM 67-05 M14-69426

EPITAXIAL GROWTH OF SILVER AND NICKEL FILMS BY CATHODE SPUTTERING ON NACL CRYSTALS CLEAVED IN VACUUM 67-06 M14-70524

THE STRUCTURE OF SILVER FILMS DEPOSITED ON MICA SUBSTRATES IN ULTRAHIGH VACUUM 67-06 M14-71023

THE EFFECT OF OTHER METALLIC IONS ON THE ELECTROCRYSTALLIZATION OF SILVER FROM NITRATE SOLUTIONS 67-06 M14-71383

GROWTH AND STRUCTURE OF SILVER FILMS EVAPORATED ON --111-- SI SURFACE 67-09 M14-76483

THE INFLUENCE OF SURFACE-ACTIVE ADDITIONS, SUBJECTED TO THE ACTION OF AN ULTRASONIC FIELD, ON THE GROWTH OF AN ELECTROLYTIC SINGLE CRYSTAL OF SILVER 67-09 M14-76511

EFFECT OF DISLOCATION DENSITY ON THE EPITAXIAL GROWTH OF SILVER 67-09 M14-77457

EPITAXIAL GROWTH OF GOLD AND SILVER ON MAGNESIUM OXIDE CLEAVED IN ULTRAHIGH VACUUM 67-10 M14-79405

HETEROGENEOUS NUCLEATION OF BI AND AG ON AMORPHOUS SUBSTRATES --IN SITU ELECTRON MICROSCOPY STUDIES-- 67-12 M14-83261

SILVER, CRYSTAL LATTICES

X-RAY DIFFRACTION MEASUREMENTS OF STACKING FAULTS IN ALPHA SILVER-TIN ALLOYS 67-01 M13-57122

THE STACKING-FAULT ENERGY IN THE AG-IN SERIES 67-02 M13-60809

SURFACE LATTICE DYNAMICS OF SILVER. PT. 1. LOW-ENERGY ELECTRON DEBYE-WALLER FACTOR 67-02 M14-60763

SURFACE STRUCTURE OF VAPOR-DEPOSITED SILVER 67-02 M14-60823

STACKING FAULT ENERGY OF FACE CENTERED CUBIC METALS ESTIMATED BY ELECTRON MICROSCOPIC ANALYSIS OF DIFFRACTION CONTRAST OF FAULTED DIPOLES 67-03 M13-65216

MEASUREMENTS OF THE ANISOTROPY OF THE DISLOCATION RESISTIVITY IN AU, AG, AND CU 67-03 M13-65217

MECHANICAL TWINNING IN COLD-ROLLED SILVER SINGLE CRYSTALS 67-03 M13-65231

STACKING FAULT DIPOLES IN FACE-CENTERED CUBIC METAL 67-03 M13-65376

THE EXPERIMENTAL STUDY OF POINT DEFECTS IN PURE METALS 67-04 M13-67310

ENERGIES OF STACKING FAULTS AND TWINS FOR NORMAL METALS 67-05 M13-69460

ORIENTATION CHANGES OF SINGLE CRYSTALS OF FACE CENTERED CUBIC METALS ON WIRE DRAWING. PT. 3. DISCUSSION OF THE RESULTS 67-05 M14-69849

DISLOCATION DISTRIBUTION IN DEFORMED SILVER SINGLE CRYSTALS 67-06 M13-71525

FAULTED DEFECTS AND STACKING-FAULT ENERGY 67-06 M13-71534

REMARKS ON THE NUCLEATION OF MECHANICAL TWINS 67-06 M17-72242

LOW-ENERGY ELECTRON DIFFRACTION STUDY OF THE --100-- FACE OF SILVER, GOLD, AND PALLADIUM 67-08 M13-75369

THE STUDY OF POINT DEFECTS IN METALS AT THE MAX-PLANCK-INSTITUT FUR METALLFORSCHUNG AND THE TECHNISCHE HOCHSCHULE STUTTGART 67-09 M13-76637

VOIDS IN QUENCHED COPPER, SILVER AND GOLD 67-09 M13-77593

VACANCY CONCENTRATION AND PRECIPITATION IN QUENCHED PURE GOLD AND GOLD-SILVER ALLOYS 67-09 M14-77451

SOME MEASUREMENTS OF DISLOCATION DAMPING IN NEUTRON IRRADIATED SILVER 67-09 M14-77671

BINDING ENERGIES AND ENTROPIES OF MULTIPLE VACANCIES IN FCC METALS 67-11 M16-81121

SURFACE LATTICE DYNAMICS OF SILVER. PT. 2. LOW-ENERGY ELECTRON THERMAL DIFFUSE SCATTERING 67-11 M16-81481

FOREST DISLOCATIONS IN SILVER SINGLE CRYSTALS 67-12 M13-82553

SILVER, DIFFUSION

ON THE GRAIN BOUNDARY DIFFUSION OF SILVER IN TIN 67-01 M14-57296

INFLUENCE OF SLIGHT IMPURITIES ON THE DIFFUSION COEFFICIENTS IN POLYCRYSTALLINE MATERIALS. PT. 4. EFFECT OF CADMIUM ON THE INTERGRANULAR SELF-DIFFUSION OF SILVER 67-01 M14-57346

INTER-GRANULAR ELECTRON TRANSPORT OF SILVER IN GOLD 67-01 M14-57366

EFFECT OF A DC FIELD ON THE LATTICE DIFFUSION OF SILVER-110 IN COPPER AND GOLD 67-01 M14-57575

DIFFUSION OF IRON AND SILVER IN BERYLLIUM 67-01 M14-58025

AN ELECTROLYTIC METHOD OF SECTIONING METAL SPECIMENS FOR DIFFUSION STUDIES 67-01 M19-57593

EFFECT OF ALPHA BOMBARDMENT ON THE DIFFUSION OF LEAD IN SILVER 67-02 M14-58951

MEASUREMENT OF THE SURFACE SELF-DIFFUSION COEFFICIENT OF SILVER BY THE TRACER TECHNIQUE 67-02 M14-59753

INTERSTITIAL DIFFUSION OF GOLD AND SILVER IN INDIUM 67-02 M14-60765

SOME RELATIONSHIPS BETWEEN SELFDIFFUSION AND MELTING BEHAVIOR OF METALS 67-02 M14-60881

CALCULATION OF DIFFUSION PARAMETERS 67-02 M14-61918

DIFFUSION OF SILVER IN POLYCRYSTALLINE GOLD 67-02 M14-61925

ON THE MECHANISM OF LATTICE ELECTROMIGRATION IN METALS 67-03 M14-65227

DIFFUSION OF SILVER IN MOLTEN LEAD-TIN ALLOYS 67-03 M14-65847

DIFFUSION OF SILVER IN MOLTEN LEAD-BISMUTH AND TIN-BISMUTH ALLOYS 67-03 M14-65848

RADIATION-ENHANCED DIFFUSION IN METALS 67-04 M14-67315

INTERSTITIAL SOLUTIONS OF NOBLE METALS IN METALS AND SEMICONDUCTORS 67-04 M14-67540

CORRELATION COEFFICIENT AND THE ISOTOPE EFFECT FOR THE DIFFUSION OF ZINC IN SILVER 67-06 M14-69908

INSOLUBILITY AND DISLOCATION DIFFUSION IN METALS 67-06 M14-72229

SURFACE AND VOLUME DIFFUSION IN THIN FILMS OF THE SYSTEM AG-SE 67-07 M14-72944

A RAPID SOLID-ELECTROCHEMICAL METHOD FOR STUDYING HIGH-TEMPERATURE DIFFUSION IN METALS 67-07 M14-73456

SELF-DIFFUSION AND DIFFUSION OF FOREIGN ATOMS IN BERYLLIUM 67-07 M14-73749

OXYGEN IN SILVER 67-08 M14-75627

THE EFFECT OF ADSORBED SULPHUR ON THE SURFACE SELF-DIFFUSION OF SILVER 67-09 M14-76485

SELF-DIFFUSION IN SINGLE CRYSTAL OF SILVER CONTAINING ALUMINA PARTICLES 67-09 M14-77874

THE DIFFUSION OF XENON IN SILVER 67-09 M14-78051

NEON DIFFUSION IN SILVER 67-10 M14-79597

DIFFUSION OF IMPURITIES IN POLYCRYSTALLINE SILVER. PT. 1. DIFFUSION OF INDIUM 67-11 M14-80730

A POSSIBLE ALLOY OF NICKEL AND SILVER IN THIN FILMS 67-11 M14-81268

DIFFUSION MECHANISMS IN ORDERED BODY-CENTERED CUBIC

ALLOYS 67-11 M14-81590
DEFECT INTERACTION IN THE DIFFUSION ZONE OF SHORT GOLD-SILVER COUPLES 67-12 M14-82722
SILVER, DISSOLVING
INTERACTION KINETICS OF PB, AG AND AG-PD ALLOYS WITH CYANIDE SOLUTION 67-10 M14-79131
SILVER, ELECTRICAL PROPERTIES
STAGE 1 RECOVERY OF PURE SILVER AND THE CORRESPONDENCE WITH COPPER 67-01 M16-57957
THE ELECTRICAL RESISTANCE OF SILVER, COPPER, ALUMINUM, ZINC AND SODIUM BETWEEN 4 AND 298 K. DEPENDS ON THE IMPURITIES 67-02 M15-59906
THE CONTRIBUTION TO DIELECTRIC CONSTANT FROM INTERBAND TRANSITION IN METALS 67-02 M16-59061
ELECTRICAL PROPERTIES OF SINGLE-CRYSTAL SILVER FILMS 67-04 M15-67661
DIFFUSION THERMOPOWER AND THE FERMI SURFACE IN DILUTE SILVER-GOLD ALLOYS 67-07 M15-72843
CALCULATION OF EFFECTIVE FORCES ON AN IMPURITY OF A METAL SUBJECTED TO A TEMPERATURE GRADIENT 67-07 M15-73632
SIZE EFFECTS IN THE LONGITUDINAL MAGNETORESISTANCE OF THIN SILVER FILMS 67-07 M15-73939
RECOVERY OF THE ELECTRICAL RESISTIVITY OF PURE METALS AFTER SHORT IRRADIATION WITH NEUTRONS INSIDE A REACTOR 67-08 M15-75644
ANISOTROPY OF RELAXATION TIMES AND PHONON DRAG IN THE NOBLE METALS 67-09 M15-77158
NATURE OF ELECTRICAL CONTACT BETWEEN TARNISHED SURFACES 67-10 M15-79155
SILVER, ELECTROCHEMISTRY
MIGRATION OF SILVER 67-08 M14-75638
SILVER, ELECTRODES
THE INFLUENCE OF SINTER TEMPERATURE ON THE CAPACITY OF SILVER ELECTRODES 67-11 M09-80838
INVESTIGATIONS OF ELECTROCRYSTALLIZATION AT SILVER ELECTRODES 67-12 M12-82457
SILVER, EXTRACTION
EXTRACTION OF NOBLE METALS FROM ANTIMONY CONCENTRATES 67-02 M03-59586
AURIFEROUS ORES OF THE EASTERN SAYAN DEPOSITS AND THEIR REPROCESSING 67-02 M03-59600
CRYSTALLIZATION OF METALS ON THE CATHODE DURING ELECTROLYSIS OF FUSED SALTS 67-02 M03-59647
FIRE REFINING OF CRUDE LEAD AT THE UKSTSK LEAD-ZINC COMBINE 67-02 M03-60564
REASONS FOR HIGH-SILVER CONTENT IN SLAGS FROM CUPELLATION OF ARGENTIFEROUS LEAD 67-02 M03-61609
DISSOLUTION OF SILVER AMALGAM IN CYANIDE SOLUTIONS 67-02 M03-62042
AN AQUEOUS CHLORINATION PROCESS FOR THE TREATMENT OF MERRILL SLIMES AND GRAVITY CONCENTRATES FROM GOLD ORES. PT. 3. NOTES ON THE RECOVERY OF SILVER 67-04 M03-67758
EXTRACTING NOBLE METALS FROM CYANIDE SOLUTIONS WITH QUATERNARY AMMONIUM COMPOUNDS 67-05 M03-68224
USING ACTIVATED CARBON IN THE FILTERLESS TREATMENT OF GOLD-BEARING ORES 67-05 M03-68964
CEMENTATION OF NOBLE METALS FROM CYANIDE SOLUTIONS 67-06 M03-69974
INVESTIGATION OF KINETICS OF JOINT PRECIPITATION OF AU, AG AND CU FROM CYANIDE SOLUTIONS 67-06 M03-71301
USE OF A COMMERCIAL MIXTURE OF A MINES FOR EXTRACTION OF GOLD AND SILVER FROM CYANIDE SOLUTIONS 67-08 M03-75201
CALCULATING OPTIMUM CONDITIONS FOR ZONE MELTING 67-08 M03-75876
DISTRIBUTION OF GOLD AND SILVER IN LEAD SMELTING PRODUCTS 67-09 M03-77111
CYANIDATION OF PALLADIUM AND A PALLADIUM-SILVER ALLOY 67-09 M03-77118
POSSIBILITIES OF INCREASING GOLD AND SILVER EXTRACTION IN THE BENEFICIATION OF OXIDIZED LEAD ORES FROM THE FIFTH LODE OF THE MADZHAROVO DEPOSIT 67-11 M02-81616
GRAPHITE AS CATHODE MATERIAL FOR THE PRODUCTION OF HIGH-PURITY METALS 67-11 M03-81433
NOBLE METAL RECOVERY FROM BALANCED LEAD ORES OF THE MADZHAROVO DEPOSIT 67-11 M03-81614
EXTRACTION OF SILVER FROM LEAD OBTAINED BY A PYROMETALLURGICAL METHOD 67-11 M03-81622
SILVER, EXTRACTIVE METALLURGY
SLIMES TREATMENT AND SILVER REFINING OPERATIONS BY THE CERRO DE PASCO CORPORATION AT LA OROYA, PERU 67-08 M03-75619
SILVER, FIBER METALLURGY
ON THE STRENGTH OF AL-RICH AL-AG SOLID SOLUTION WHICH CAUSED THE DIFFERENCE IN THE CONCENTRATION DISTRIBUTION OF THE SOLUTE ATOM 67-05 M14-69852
SILVER, GRAIN BOUNDARIES
GRAIN BOUNDARY RELAXATION IN FOUR HIGH-PURITY FCC METALS 67-06 M13-71607
SILVER, INTERMETALLICS
TEMPERATURE AND STRAIN-RATE DEPENDENCE OF THE FLOW STRESS OF AGMG SINGLE CRYSTALS 67-01 M17-57110
SOME CROSS-SUBSTITUTIONAL ALLOYS OF CDTE 67-02 M16-61765
THE ELASTIC CONSTANTS OF MGAG AND MGCU2 SINGLE CRYSTALS 67-05 M17-69575
MAGNETIC STRUCTURE OF DYAG 67-09 M15-76660
ELECTRICAL RESISTIVITY OF SMAG, SMCU AND SMAU 67-09 M15-77455
THE COMPOSITIONS, AG8MX6, WHERE M EQUALS SI, GE, SN AND X EQUALS S, SE, TE 67-12 M13-82514
SILVER, IRRADIATION
STUDY OF THE EFFECT OF PROTON BOMBARDMENT ON OPTICAL CONSTANTS OF THIN METALLIC LAYERS 67-10 M16-79453
THE MOBILITY OF TRITIUM IN SILVER AND ALUMINUM AFTER ION BOMBARDMENT 67-12 M16-82057
SILVER, LIQUID METALS
THE DIFFUSIVITY OF OXYGEN IN LIQUID SILVER 67-12 M14-82984
SILVER, LUBRICANTS
IMPROVING FRICTIONAL BEHAVIOR WITH SOLID FILM LUBRICANTS 67-03 M05-65432
SILVER, MAGNETIC PROPERTIES
MAGNETIC SUSCEPTIBILITY CHANGES IN SILVER POWDERS DURING OXIDATION-REDUCTION CYCLING 67-05 M15-69032
SILVER, MECHANICAL PROPERTIES
PORE FORMATION DURING CREEP 67-02 M14-62087
ON THE CREEP BEHAVIOR OF SILVER. PT. 1. THE OXYGEN FREE METAL 67-04 M17-66061
ON THE CREEP BEHAVIOR OF SILVER. PT. 2. OXYGEN EFFECTS 67-04 M17-66062
ON THE CREEP BEHAVIOR OF SILVER. PT. 3. IMPURITY EFFECTS 67-04 M17-66063
DISLOCATION SUBSTRUCTURE AND EXTENSION OF FATIGUE LIFE IN METAL CRYSTALS 67-04 M17-66925
THE HIGH-TEMPERATURE STEADY-STATE CREEP OF PURE SILVER AND INTERNALLY OXIDIZED SILVER-MAGNESIUM ALLOYS 67-04 M17-66935
ON THE LOCALIZATION OF STRAIN IN HIGH-TEMPERATURE CREEP 67-04 M17-67927
THE HIGH TEMPERATURE FLOW STRESS OF SINGLE CRYSTALS OF COPPER, SILVER AND GOLD. PT. 1 67-05 M17-68292
WEAR AND FRICTION OF THE PLATINUM METALS. PERFORMANCE IN SLIDING CONTACTS 67-05 M17-69282
STRESS IN VACUUM DEPOSITED FILMS OF SILVER 67-05 M17-69291
ELASTIC CONSTANTS OF AG ALLOY SINGLE CRYSTALS 67-05 M17-69846
MECHANICAL PROPERTIES AND USES OF FINE SILVER 67-08 M17-75622
THE DETERMINATION OF THE ACTIVATION VOLUME DURING CHANGE OF THE CREEP RATE, PARTICULARLY IN AG SINGLE CRYSTALS 67-08 M17-75783
SILVER BEARINGS 67-08 M20-75636
INTERNAL FRICTION AND ELASTIC MODULUS OF SILVER THIN FILMS 67-09 M17-77785
THE INFLUENCE OF GRAIN SIZE, TEMPERATURE AND PREFERRED ORIENTATION ON WORK HARDENING OF POLYCRYSTALLINE SILVER 67-10 M17-78687
THE ORIGIN OF FRACTURES IN AG-CDO COMPOSITE MATERIALS 67-10 M17-79078
ULTRASONIC WORK HARDENING OF FACE CENTERED CUBIC METALS AND ALLOYS 67-11 M17-80379
HIGHER ORDER ELASTIC CONSTANTS AND THE EQUATION OF STATE OF FCC METALS 67-11 M17-80612
SILVER, METAL FOILS
TEMPERATURE DEPENDENCE OF DYNAMICAL ELECTRON DIFFRACTION INTENSITIES OF POLYCRYSTALLINE FOILS 67-02 M13-61825
SILVER, METAL FORMING
THE FABRICATION OF SILVER AND SILVER-BASE ALLOYS 67-08 M07-75628
SILVER, METAL WORKING
ELECTRICAL CONTACTS--MANUFACTURE 67-08 M08-75629

SILVER, METALLOGRAPHY
THE METALLOGRAPHY OF SILVER 67-08 M13-75633
SILVER, MICROSTRUCTURE
EFFECT OF ANNEALING ON THE STRUCTURE OF VACUUM METAL CONDENSATES 67-02 M13-61926
GRAIN BOUNDARY MIGRATION AND THE FORMATION OF RECRYSTALLIZATION TEXTURES IN METAL SINGLE- AND POLYCRYSTALS 67-03 M14-65546
DISLOCATION DISTRIBUTIONS DURING STAGE I DEFORMATION OF SILVER SINGLE CRYSTALS 67-09 M13-76587
GRAIN BOUNDARY DISPLACEMENT IN A METAL UNDER THE EFFECT OF AN ELECTRIC FIELD 67-11 M14-80247
SILVER, NUCLEAR MAGNETIC RESONANCE
NUCLEAR RESONANCE FREQUENCY DISTRIBUTION DUE TO THE PRESENCE OF LINEAR DISLOCATIONS IN A METAL 67-04 M16-67634
SILVER, NUCLEATION
NATURE OF THE CRITICAL NUCLEUS IN HETEROGENEOUS VAPOR-SOLID NUCLEATION 67-02 M14-61575
SILVER, OPTICAL PROPERTIES
OPTICAL PROPERTIES OF DILUTED SOLID SOLUTIONS OF SILVER-GOLD 67-02 M15-62091
EMISSION FROM NONRELATIVISTIC ELECTRONS IN THIN METAL FOILS 67-11 M15-80785
SILVER, PHASE TRANSFORMATIONS
PHASE AND ORDER TRANSITIONS DURING AND AFTER FILM DEPOSITION 67-01 M14-57121
HETEROGENEOUS NUCLEATION OF UNDERCOOLED SILVER 67-11 M14-81351
SILVER, PHASES /STATE OF MATTER/
PHASE TRANSFORMATIONS ON SOLID SURFACES 67-07 M14-73816
SILVER, PHYSICAL PROPERTIES
VAPOR PRESSURE OF BERYLLIUM AND LIQUID SILVER 67-03 M15-65237
MICROMETHOD FOR DETERMINING THE FUSION POINTS OF REFRACTORY COMPOUNDS 67-05 M15-68705
THE HEAT CAPACITY OF SILVER BELOW 26 K 67-05 M15-69579
THE PHYSICAL PROPERTIES OF SILVER 67-08 M15-75620
ELECTRICAL CONTACTS--APPLICATIONS 67-08 M20-75630
VARIATION OF TEMPERATURE DURING THE FIRST STAGE OF AN ELECTRIC EXPLOSION OF WIRES 67-10 M15-79254
DETERMINATION OF THE VAPOR PRESSURES OF METALS AT HIGH TEMPERATURES 67-11 M15-81212
MELTING CURVES OF COPPER, SILVER, GOLD, AND PLATINUM TO 70 KBAR 67-12 M15-82527
SILVER, POROSITY
DEVELOPMENT OF CAVITIES IN CREEP 67-05 M17-68857
SILVER, POWDER METALLURGY
CONDITIONS SURROUNDING CATHODIC DEPOSITION OF CERTAIN METAL POWDERS AT HIGH CURRENT DENSITIES 67-05 M09-68403
CONTRIBUTION TO THE STUDY OF GRAIN ORIENTATION IN COLUMNS OF POWDER AND SINTERED PARTS UNDER THE EFFECT OF INTERMEDIATE LAYERS 67-06 M09-71754
MANUFACTURE AND USES OF SILVER POWDER 67-08 M09-75635
PREPARATION OF FINE METAL PARTICLES BY MEANS OF EVAPORATION IN HELIUM GAS 67-08 M09-75933
INFLUENCE OF PRESSURE UPON THE SINTERING KINETICS OF SILVER 67-12 M17-82579
SILVER, RADIATION EFFECTS
BREMSSTRAHLUNG AND TRANSITION RADIATION FROM AG FOILS BOMBARDED BY NON-NORMAL INCIDENCE ELECTRONS 67-04 M16-68138
INFLUENCE OF GAMMA RADIATION ON ELECTRICAL RESISTANCE OF VAPOR DEPOSITED THIN FILMS OF AG, AL, NI AND PERMALLOY 67-06 M16-72376
SILVER, REACTIONS /CHEMICAL/
POTENTIAL-PH-DIAGRAMS FOR AG, NI AND CO AT 100 C. WITH CONSIDERATION OF THE AMMINE COMPLEXES 67-02 M14-62248
A COULOGRAVIMETRIC STUDY OF THE SINTERED SILVER ELECTRODE IN 1 MOLAR POTASSIUM HYDROXIDE 67-05 M14-68615
SULFURIZATION OF AG POWDER AND SECTIONS BY H2S AT LOW PRESSURE 67-05 M15-69136
ON INTERFACIAL PROPERTIES BETWEEN MOLTEN SILVER, COPPER, NICKEL AND THESE BINARY ALLOYS AND MOLTEN SLAG 67-06 M14-70789
SILVER DEPOSITION ON BATTERY SEPARATORS 67-09 M14-77145
SILVER, RECOVERY
INVESTIGATION OF THE RECOVERY OF METALS AFTER QUENCHING 67-02 M17-58995
SILVER, REDUCTION /CHEMICAL/
EXTRACTIVE PROCESSES 67-08 M03-75617
SILVER, REFINING
REFINING PROCESSES 67-08 M03-75618
SILVER, SINGLE CRYSTALS
STABILITY OF THE --110-- --112-- ORIENTATION IN SILVER DEFORMED BY PLANE STRAIN COMPRESSION 67-11 M13-81541
SURFACE STRUCTURE OF CLEAN AU --100-- AND AG --100-- SURFACES 67-12 M13-82523
SILVER, SOLUBILITY
ALLOYING BEHAVIOR OF SILVER AND ITS PRINCIPAL BINARY ALLOYS 67-08 M14-75625
SOLUBILITY OF HYDROGEN IN SOLID COPPER, SILVER, AND GOLD OBTAINED BY A RAPID QUENCH AND EXTRACTION TECHNIQUE 67-12 M14-82567
THE SOLUBILITY OF CHROMIUM IN LIQUID SILVER AND MOLYBDENUM AND TUNGSTEN IN LIQUID TIN 67-12 M14-82726
SILVER, SORPTION
KINETIC STUDY OF THE ABSORPTION OF OXYGEN FROM THE AIR BY LIQUID SILVER 67-10 M14-79924
SILVER, SURFACE FINISHING
HONE TO SIZE--SUPERFINISH TO SHAPE 67-02 M08-61126
ANODIC DISSOLUTION OF SILVER SINGLE CRYSTAL FACES --111--, --100-- AND --110-- AND POLYCRYSTALLINE SILVER IN ARGENTOCYANIDE BATH 67-09 M12-78275
SILVER, SURFACE PROPERTIES
DETERMINATION OF THE RELATIVE DISPERSION OF SOME METAL POWDERS 67-02 M09-62107
DETERMINATION OF ANISOTROPY AND SURFACE ENERGY OF THE FACE CENTERED CUBIC METALS NICKEL, GOLD AND SILVER 67-02 M15-59908
THE KINETICS OF SESSILE-DROP SPREADING IN REACTING METAL-METAL SYSTEMS 67-03 M15-65080
SILVER, TERNARY SYSTEMS
TERNARY CONDENSED PHASE SYSTEMS OF GALLIUM AND ARSENIC WITH GROUP IB ELEMENTS 67-07 M14-73460
TERNARY AND HIGHER-ORDER ALLOYS OF SILVER 67-08 M14-75626
THE MICROSTRUCTURES OF TERNARY EUTECTIC ALLOYS IN THE SYSTEMS CD-SN---PB, IN, TL--, AL-CU---MG, ZN, AG--, AND ZN-SN-PB 67-09 M13-76678
THE CRYSTAL STRUCTURE OF THE LAVES PHASE IN MG-ZN-AG-SYSTEM. PT. 1 67-12 M13-81768
THE STRUCTURE OF SEMICONDUCTOR AG2TE-GA2TE3 ALLOYS 67-12 M13-82493
TERNARY DIFFUSION IN COPPER-SILVER-GOLD ALLOYS 67-12 M14-82713
PRIMARY SOLID-SOLUTION PHASE BOUNDARY IN SILVER CORNER OF SILVER-CADMIUM-INDIUM TERNARY SYSTEM 67-12 M14-82758
THERMODYNAMIC INTERACTIONS AND LIQUIDUS PHASE BOUNDARIES IN THE LEAD CORNER OF THE PB-ZN-AG AND PB-ZN-AU SYSTEMS 67-12 M15-82754
SILVER, THERMAL PROPERTIES
A USEFUL RELATIONSHIP BETWEEN ATOMIC VIBRATION AMPLITUDES AND THERMAL EXPANSION FOR CUBIC SOLIDS 67-02 M15-59099
VIBRATION SPECTRA AND DEBYE TEMPERATURES OF SILVER AND GOLD 67-02 M15-59474
TRANSIENT DETERMINATIONS OF THERMAL DIFFUSIVITIES AND DISSIPATIONS OF METAL FOILS 67-02 M15-61073
ANHARMONICITY IN NOBLE METALS--SOME THERMAL PROPERTIES 67-05 M15-69812
SILVER, THERMODYNAMICS
THERMODYNAMICS OF SHOCK COMPRESSION OF METALS 67-03 M15-65120
X-RAY STUDY OF THE CHARACTERISTIC DEBYE TEMPERATURE OF POLYCRYSTALLINE SILVER, UTILIZING A CORRECTION FOR PRIMARY EXTINCTION 67-07 M15-72945
DEPARTURES FROM LINEARITY IN ARRHENIUS PLOTS OF VACANCY CONCENTRATION 67-07 M15-73912
SILVER, THIN FILMS
ELECTRODEPOSITION OF METALS IN ULTRASONIC FIELDS 67-04 M12-66279
AMORPHOUS NUCLEATION IN METALS 67-05 M14-68413
SECONDARY ELECTRON EMISSION FROM THIN SELF-SUPPORTING FILMS OF SILVER 67-10 M16-79106
INFLUENCE OF A SUPERIMPOSED FILM ON THE ELECTRICAL CONDUCTIVITY OF THIN METAL FILMS 67-11 M15-81087

EVAPORATED METAL FILMS ON FERROELECTRIC CRYSTALS
67-11 M15-81474
EFFECT OF ULTRASONIC VIBRATIONS OF THE SUBSTRATE ON THE GROWTH OF THIN METAL FILMS
67-12 M14-83015
HALL EFFECT IN THIN METAL FILMS
67-12 M15-82369
OPTICAL EFFECTS IN METALS APPLICATION OF A LEAST-SQUARES METHOD TO MEASUREMENTS ON GOLD AND SILVER
67-12 M15-82374
DETERMINATION OF THE THICKNESS OF AG, CD AND SN USING FLUORESCENT KALPHA X-RAYS INDUCED BY TM 170
67-12 M19-83256

SILVER, TRANSPORT PROPERTIES
DIFFUSION AND ELECTRIC TRANSPORT OF INDIUM AND SILVER ALONG DISLOCATIONS IN SILICON
67-10 M14-79474
ELECTRICAL TRANSFER OF SILVER IN POLYCRYSTALS OF FIRST GROUP NOBLE METALS 67-10 M15-78353
EFFECT OF ELECTRICAL FIELD ON INTERCRYSTALLINE DIFFUSION IN GROUP 1 NOBLE METALS
67-12 M14-82331

SILVER, WEAR
INFLUENCE OF OXIDE FILMS ON FRICTION AND WEAR DURING SLIDING 67-09 M17-76369
SLIDING CHARACTERISTICS OF SILVER AGAINST IRON AS INFLUENCED BY OXYGEN CONCENTRATION
67-10 M17-78551

SILVER, WELDING
CHARACTERISTICS OF THE ASTM TESTING METHOD FOR ELECTRICAL CONTACT MATERIALS AND ITS MODIFICATION
67-09 M11-77998

SILVER, X RAY ANALYSIS
A DIFFUSION STUDY IN THE TITANIUM-SILVER SYSTEM
67-04 M14-67265

SILVER BASE ALLOYS
CONSIL 995 --HIGH STRENGTH, HIGH CONDUCTIVITY ALLOY--
67-07 M01-72804

SILVER BASE ALLOYS, ATOMIC PROPERTIES
FORCE CONSTANTS OF INTERATOMIC BONDS IN METALLIC SOLID SOLUTIONS 67-12 M14-82047
ON THE STATE OF THE INTERSTITIAL ATOM IN THE INTERCRYSTALLINE TRANSITION ZONE OF A POLYCRYSTALLINE SOLID SOLUTION
67-12 M16-82333

SILVER BASE ALLOYS, BONDING
SOME PHYSICAL PROPERTIES OF SILVER-TIN AMALGAMS
67-12 M20-82279

SILVER BASE ALLOYS, BRAZING
DESIGNING FOR SILVER ALLOY BRAZING
67-07 M11-74094

SILVER BASE ALLOYS, BRAZING ALLOYS
BRAZING OF TITANIUM WITH LI-CONTAINING SILVER
67-04 M11-67590

SILVER BASE ALLOYS, CHEMICAL ANALYSIS
AN X-RAY FLUORESCENT METHOD FOR THE DETERMINATION OF COPPER IN SILVER-COPPER ALLOYS
67-03 M19-65493
AN X-RAY FLUORESCENT METHOD FOR THE DETERMINATION OF COPPER IN SILVER-COPPER ALLOYS
67-04 M19-66105

SILVER BASE ALLOYS, COATINGS
VACUUM EVAPORATION OF SILVER 67-08 M12-75637
PROPERTIES OF ELECTRODEPOSITED AG-CU ALLOYS. PT. 4. METALLURGICAL STUDIES ON ELECTRICAL CONTACT MATERIALS
67-12 M12-83509

SILVER BASE ALLOYS, CORROSION
A POTENTIOSTATIC STUDY OF THE CORROSION OF DENTAL SILVER-TIN AMALGAM 67-09 M18-76648

SILVER BASE ALLOYS, CRYSTAL DEFECTS
DISLOCATION NODE DETERMINATIONS OF THE STACKING FAULT ENERGY IN SILVER-TIN ALLOYS
67-06 M13-70405
DETERMINATION OF THE STACKING FAULT ENERGY OF ALLOYS BY THE NODE AND TAU3 METHODS
67-06 M13-71664

SILVER BASE ALLOYS, CRYSTAL GROWTH
METASTABLE EVAPORATED THIN FILMS OF CU-AG AND CO-AU ALLOYS. PT. 1. OCCURRENCE AND MORPHOLOGY OF PHASES
67-06 M14-70407

SILVER BASE ALLOYS, CRYSTAL LATTICES
X-RAY DIFFRACTION MEASUREMENTS OF STACKING FAULTS IN ALPHA SILVER-TIN ALLOYS 67-01 M13-57122
THE STACKING-FAULT ENERGY IN THE AG-IN SERIES
67-02 M13-60809
ESTIMATE OF EXTRINSIC STACKING-FAULT ENERGIES FROM DISLOCATION CONFIGURATIONS 67-05 M13-69204
TEMPERATURE DEPENDENCE OF THE MEAN SQUARE STATIC DISPLACEMENT OF ATOMS IN HOMOGENEOUS SOLID SOLUTIONS 67-05 M16-68239
THE STACKING-FAULT ENERGY IN ALPHA-SILVER-TIN ALLOYS 67-07 M13-73071
THE STACKING FAULT DENSITY IN SOLID SOLUTIONS BASED ON COPPER, SILVER, NICKEL, ALUMINIUM AND LEAD 67-07 M13-73906
ATOMIC DISPLACEMENTS IN IRRADIATED EQUIATOMIC AG-AU
67-08 M14-75823
THE FORMATION OF EXTRINSIC-INTRINSIC FAULTING
67-09 M13-76589
X-RAY MEASUREMENTS OF STACKING FAULTS IN SILVER-ANTIMONY ALLOYS 67-11 M13-80490
RESEARCH ON NOBLE METAL ALLOYS CONTAINING MORE ELECTROPOSITIVE ELEMENTS. PT. 12. TYPE-CII PHASES IN RARE EARTH ELEMENT ALLOYS
67-11 M13-80576
X-RAY STUDY OF COLD WORKED SILVER-ANTIMONY ALLOYS EFFECTS DUE TO EXTRINSIC STACKING FAULTS
67-12 M13-82586
FAULTING IN COMPACTED AG-9 AT. PER CENT SN ALLOY POWDERS 67-12 M13-83050

SILVER BASE ALLOYS, DEFORMATION
A CRITICAL REVIEW OF THE PEIERLS MECHANISM
67-06 M17-71524

SILVER BASE ALLOYS, DIFFUSION
DIFFUSION OF THE SOLVENT AND THE SOLUTE IN DILUTE ALLOYS OF FACE CENTERED CUBIC METALS
67-05 M14-68287
KINETICS OF SOLUTE-ENHANCED DIFFUSION IN DILUTE FACE-CENTERED-CUBIC ALLOYS 67-06 M14-69910
THE DIFFUSION OF COPPER IN SILVER --RICH---COPPER ALLOYS 67-09 M14-77738

SILVER BASE ALLOYS, DISSOLVING
INTERACTION KINETICS OF PB, AG AND AG-PD ALLOYS WITH CYANIDE SOLUTION 67-10 M14-79131

SILVER BASE ALLOYS, ELECTRICAL PROPERTIES
INVESTIGATIONS OF THE HALL EFFECT AND ELECTRICAL CONDUCTIVITY IN A SILVER-PALLADIUM SOLID SOLUTION
67-03 M16-65065
THERMOELECTRIC POWER OF SILVER ALLOYS AT VERY LOW TEMPERATURES 67-05 M15-68290
STUDIES ON THE PHYSICAL METALLURGY OF AL-AG BINARY ALLOY 67-05 M15-68897
PROPERTIES OF SILVER ALLOYS, CONTAINING SMALL AMOUNTS OF PALLADIUM AND CADMIUM
67-06 M15-69987
SILVER-BASE TERNARY ALLOY PROVES SUPERIOR FOR SLIP RING LEAD WIRES 67-06 M15-70010
CONDUCTIVITY AND HALL CONSTANT. PT. 35. ON THE INFLUENCE OF VALENCY OF BETA-METALS ON THE CHANGE OF ELECTRICAL PROPERTIES BY SHORT RANGE ORDER IN TERNARY COPPER AND SILVER BASE ALPHA-SOLID SOLUTIONS 67-06 M15-71720
PREDICTED RESISTIVITIES OF LIQUID SILVER-TIN ALLOYS
67-06 M15-71990
SOME REMARKSO CONDUCTIVITY AND HALL CONSTANT
67-06 M16-71864
DIFFUSION THERMOPOWER AND THE FERMI SURFACE IN DILUTE SILVER-GOLD ALLOYS 67-07 M15-72843
THERMOELECTRIC POWER IN SILVER-GOLD AND SILVER-GERMANIUM ALLOYS 67-09 M15-77166
THE ELECTRICAL RESISTIVITY OF GOLD-SILVER ALLOYS
67-11 M15-80307

SILVER BASE ALLOYS, HARDENING
SOLUTION-HARDENING IN SILVER-BASE ALLOYS
67-08 M14-75331

SILVER BASE ALLOYS, HEAT TREATMENT
PARTICLE COARSENING IN INTERNALLY OXIDIZED SILVER-MAGNESIUM ALLOYS 67-08 M14-75335
ELECTRON MICROSCOPIC INVESTIGATIONS OF PRECIPITATION IN AGE HARDENABLE SILVER-COPPER ALLOYS 67-11 M14-80376

SILVER BASE ALLOYS, LUBRICANTS
LUBRICATION WITH ELECTRODEPOSITED FILMS OF SILVER-RHENIUM AND GOLD-MOLYBDENUM 67-10 M17-78587

SILVER BASE ALLOYS, MAGNETIC PROPERTIES
A MAGNETIC SUSCEPTIBILITY APPARATUS FOR WEAKLY MAGNETIC METALS, AND THE SUSCEPTIBILITY OF PURE COPPER IN THE RANGE 6-300 K 67-03 M15-65737
ON THE CHANGE OF ELECTRICAL PROPERTIES CAUSED BY SHORT RANGE ORDER IN THE ALPHA-SOLID SOLUTIONS WITH GOLD-SILVER- OR COPPER-BASE ALLOYS CONTAINING MANGANESE 67-07 M15-73852
MAGNETORESISTANCE AND CONDUCTION ELECTRON-IMPURITY SPIN COUPLING IN DILUTE SILVER ALLOYS
67-09 M15-76372

SILVER BASE ALLOYS, MECHANICAL PROPERTIES
THE HIGH-TEMPERATURE STEADY-STATE CREEP OF PURE

SILVER BASE ALLOYS

SILVER AND INTERNALLY OXIDIZED SILVER-MAGNESIUM ALLOYS 67-04 M17-66935
ELASTIC CONSTANTS OF AG ALLOY SINGLE CRYSTALS 67-05 M17-69846
INFLUENCE OF CONDUCTION ELECTRONS ON THE LATTICE SPECIFIC HEAT AND ELASTIC MODULI OF ALPHA-PHASE ALLOYS OF THE NOBLE METALS 67-07 M16-73940
THERMAL EXPANSION AND ELASTIC CONSTANTS OF BETA PRIME PHASE-AGMG. PT. 2. SINGLE-CRYSTAL ELASTIC CONSTANTS FROM 77 TO 750 K 67-07 M17-72639
IMPROVEMENT OF AGE HARDENING QUALITIES OF JEWELRY SILVER BY ZN ADDITIVES 67-10 M10-79077
INTERNAL OXIDATION OF AGAL AND AGMG ALLOYS 67-11 M17-80345
CONTRIBUTION TO THE DISPERSION-HARDENING OF AG 67-12 M17-82666

SILVER BASE ALLOYS, METAL FORMING
THE FABRICATION OF SILVER AND SILVER-BASE ALLOYS 67-08 M07-75628

SILVER BASE ALLOYS, MICROSTRUCTURE
X-RAY STUDY OF COLD-WORKED SILVER-ANTIMONY ALLOYS 67-01 M13-57413
TWINNING MODES IN THE HCP ZETA PHASES AG-AL, AG-SN AND AG-SB 67-02 M13-58956
SOME FEATURES OF THE DISLOCATION STRUCTURE OF DILUTE SOLID SOLUTIONS BASED ON SILVER 67-04 M13-67655
DEFECTS DESCRIBED IN QUENCHED ALLOYS 67-07 M13-73083
DISLOCATION SUBSTRUCTURE IN SINGLE CRYSTALS OF HEXAGONAL AG-AL ORIENTED FOR PRISMATIC SLIP 67-11 M13-81266

SILVER BASE ALLOYS, OPTICAL PROPERTIES
OPTICAL PROPERTIES OF DILUTED SOLID SOLUTIONS OF SILVER-GOLD 67-02 M15-62091

SILVER BASE ALLOYS, ORDER DISORDER
ON THE KINETICS OF SHORT-RANGE ORDERING IN AUAG --50, 50-- AND CUAL --85, 15-- 67-05 M14-69776

SILVER BASE ALLOYS, OXIDATION
INTERNAL OXIDATION OF SPECIMENS OF SILVER ALLOY POWDERS 67-05 M18-69116

SILVER BASE ALLOYS, PHASE TRANSFORMATIONS
METASTABLE EVAPORATED THIN FILMS OF CU-AG AND CO-AU ALLOYS. PT. 2. KINETICS OF THE TRANSFORMATIONS 67-06 M14-70408

SILVER BASE ALLOYS, PHASES /STATE OF MATTER/
METASTABLE PHASES 67-11 M14-81123
THE SOLUBILITY OF LATHANUM IN SILVER 67-11 M14-81175

SILVER BASE ALLOYS, PHYSICAL PROPERTIES
PRECIOUS METALS--GLAMOUR PUTS ON A HARD HAT 67-06 M01-70485
INFLUENCE OF ADDITIONS OF BERYLLIUM, THALLIUM, AND SILICON ON THE HEAT RESISTANCE AND ELECTRICAL AND MECHANICAL PROPERTIES OF SILVER 67-08 M15-74998
DISPERSIONED HARDENED AG ALLOYS--NEW MATERIALS FOR ELECTRICAL CONTACTS 67-10 M10-79080

SILVER BASE ALLOYS, POWDER METALLURGY
POWDER COMPOSITE CONTACTS OF INCREASED WEAR RESISTANCE 67-08 M09-75454
ROTOR-TYPE CONTINUOUS MECHANIZED LINE FOR PRODUCTION OF POWDER COMPOSITE CONTACTS 67-08 M09-75476
TERNARY COMPOSITES FOR ELECTRIC CONTACTS 67-12 M09-82211

SILVER BASE ALLOYS, REACTIONS /CHEMICAL/
THINGS YOU SHOULD KNOW ABOUT THOSE BRAZING FLUXES 67-08 M11-75527

SILVER BASE ALLOYS, SINGLE CRYSTALS
DEFORMATION OF SILVER-ZINC SINGLE CRYSTALS AS A FUNCTION OF ZINC CONCENTRATION 67-12 M17-82716

SILVER BASE ALLOYS, SOLDERS
KOVAR 61--AN ALLOY FOR SOLDERING WITH CZECHOSLOVAKIAN CERAMICS 67-02 M11-58869

SILVER BASE ALLOYS, SULFURIZATION
THE KINETICS OF SULFURIZATION OF AG-ZN AND AG-AL ALLOYS IN SULFUR VAPORS 67-01 M14-57144

SILVER BASE ALLOYS, THERMAL PROPERTIES
ELECTRONIC SPECIFIC HEAT OF DILUTE ALLOYS.. FE --TI--, FE --V--, FE --CR--, FE --MN--, FE --CO--, FE --NI--, FE --AL--, FE --SI--, FE 67-03 M15-65031
THERMAL EXPANSION AND ELASTIC CONSTANTS OF BETA PRIME PHASE AGMG. PT. 1. THE COEFFICIENT OF THERMAL EXPANSION FROM 77 TO 800 K 67-07 M15-72638
NUCLEAR SPECIFIC HEAT OF GOLD-SILVER ALLOYS 67-08 M15-74564
THE ANOMALOUS THERMAL CONDUCTIVITY OF DILUTE AG-MN ALLOYS AT HELIUM TEMPERATURES 67-10 M15-79026
THE ELECTRONIC SPECIFIC HEATS OF ALLOY PHASES BASED ON THE NOBLE METALS 67-11 M15-81115

SILVER BASE ALLOYS, THERMODYNAMICS
ELECTROMOTIVE-FORCE AND CALORIMETRIC STUDIES OF THERMODYNAMIC PROPERTIES OF SOLID AND LIQUID SILVER-TIN ALLOYS 67-02 M15-59421
THE EFFECT OF SCREENING CHARGE ON THE ELECTRONIC SPECIFIC HEAT OF DILUTE ALLOYS OF THE NOBLE METALS 67-06 M15-71171
CONCENTRATION DEPENDENCES OF ELASTIC CONSTANTS AND DEBYE TEMPERATURES FOR BINARY ALLOYS 67-07 M15-72404
ELECTRONIC SPECIFIC HEATS OF SILVER-GOLD ALLOYS 67-07 M16-74061

SILVER BASE ALLOYS, TRANSPORT PROPERTIES
THE INTERPRETATION OF THE HALL EFFECT IN ALLOYS OF COPPER AND SILVER WITH GROUP B METALS 67-01 M15-57489
THERMAL CONDUCTIVITY AND THERMOPOWER OF SILVER AND SILVER-BASE ALLOYS AT LOW TEMPERATURES. PT. 3. ALLOYS WITH GOLD, ANTIMONY AND PALLADIUM 67-11 M15-80907

SILVER BASE ALLOYS, WELDING
WELDING CHARACTERISTICS OF SILVER AND ITS ALLOYS FOR ELECTRICAL CONTACTS 67-04 M11-67580

SILVER BASE ALLOYS, X RAY ANALYSIS
AN X-RAY STUDY OF THE EFFECT OF MANGANESE ON THE OCCURRENCE OF STACKING FAULTS IN SILVER-BASE ALLOYS 67-04 M14-66334

SILVER BRAZING ALLOYS, MECHANICAL PROPERTIES
METAL RESEARCH FOR SPACE ENGINEERING 67-07 M20-73128

SILVER BRAZING ALLOYS, OXIDATION
THE USE OF SILVER BRAZING ALLOYS 67-08 M11-75631

SILVER COMPOUNDS, ATOMIC PROPERTIES
ATOMIC-SIZE CRITERIA IN CERTAIN INTERMEDIATE PHASES OF SILVER AND GOLD 67-11 M16-81114

SILVER COMPOUNDS, DEFORMATION
A CRITICAL REVIEW OF THE PEIERLS MECHANISM 67-06 M17-71524

SILVER COMPOUNDS, DIFFUSION
THE DIFFUSION OF S IN AG 67-10 M14-79585

SILVER COMPOUNDS, MAGNETIC PROPERTIES
MAGNETIC SUSCEPTIBILITY OF AGF2 67-12 M15-82537

SILVER COMPOUNDS, MECHANICAL PROPERTIES
MECHANICAL CHARACTERISTICS OF EXTRUDED SILVER-GRAPHITE COMPOUND MATERIALS 67-10 M17-79081

SILVER COMPOUNDS, POWDER METALLURGY
CHEMICAL METHOD FOR PRODUCTION OF THE MATERIALS FOR ELECTRIC CONTACTS 67-08 M09-74319
SINTERING OF SILVER OXIDE POWDER AT 173 C 67-08 M09-75519

SILVER COMPOUNDS, SEMICONDUCTORS
EXTERNAL PHOTOEFFECT FROM SENSITIZING DYES ADSORBED ON SEMICONDUCTORS 67-08 M16-75236

SILVER COMPOUNDS, TRANSPORT PROPERTIES
ELECTRICAL PROPERTIES OF BETA-AG2TE AND BETA-AG2SE FROM 4.2 TO 300 K 67-07 M15-72648
ENERGY GAP IN BETA AG2SE 67-10 M16-79420

SILVER PLATING
PLATED ABS CHALLENGES DIECASTINGS 67-04 M12-67488
THE ELECTROPLATING OF PLASTICS 67-04 M12-68060
ELECTROPLATED PLASTICS IN THE ELECTRONICS INDUSTRY 67-07 M12-73642
DEVELOPMENTS AND TENDENCIES IN PRECIOUS-METAL ELECTROPLATING. PT. 4 67-07 M12-73820
THE METALLIC COATING OF GRAFTED ABS POLYMERS 67-10 M12-79884
METALLURGICAL STUDIES ON ELECTRICAL CONTACT MATERIALS. PT. 3. STUDIES ON BATH COMPOSITIONS FOR ELECTROPLATING OF SILVER-COPPER ALLOYS 67-11 M12-80506
NUCLEATION IN ELECTROLYTIC METAL DEPOSITION 67-11 M12-80806
INFLUENCE OF NEUTRAL SALTS ON THE QUALITY OF SILVER COATINGS DEPOSITED FROM CYANIDE ELECTROLYTES 67-11 M12-81298
INVESTIGATIONS OF ELECTROCRYSTALLIZATION AT SILVER ELECTRODES 67-12 M12-82457
THE PLATING OF SPACE VEHICLES WITH PRECIOUS METALS

67-12 M12-82936

SILVER SOLDER
SEE SILVER BRAZING ALLOYS

SILVERING
SEE SILVER PLATING

SIMILAR METALS, BRAZING
NEW PRODCUT DESIGNS MAKE GREATER USE OF BRAZING
67-08 M11-76181

SIMILAR METALS, WELDING
FRICTION WELDING AS AN ECONOMICAL METHOD OF PRODUCTION 67-06 M11-72058
FLYWHEEL FRICTION WELDING AS A DESIGN AND PRODUCTION TOOL 67-10 M11-79196

SINGLE CRYSTALS
SEE ALSO WHISKERS /METALS/
DISLOCATIONS IN ANTIMONY CRYSTALS. PT. 1. DETECTION OF DISLOCATIONS BY ETCHING --111-- PLANES IN A NEW ETCHANT 67-02 M13-61893
SINGLE CRYSTALS OF METALS 67-02 M14-60288
THERMALLY ACTIVATED SLIP IN ZN CRYSTALS
67-02 M14-61892
STUDY OF ORDERING STRUCTURE OF SOLID SOLUTION IN ALNICO ALLOY CONTAINING TITANIUM
67-02 M14-62074
MONOCRYSTALS IN MECHANICAL TECHNOLOGY
67-04 M17-66917
SOLID STATE PHYSICS--ADVANCES IN RESEARCH AND APPLICATIONS 67-07 M16-73116

SINGLE CRYSTALS, ACOUSTIC PROPERTIES
EFFECTS OF STRESS ON THE ULTRASONIC ATTENUATION IN A NICKEL SINGLE CRYSTAL 67-06 M17-71289
THE INFLUENCE OF SURFACE-ACTIVE ADDITIONS, SUBJECTED TO THE ACTION OF AN ULTRASONIC FIELD, ON THE GROWTH OF AN ELECTROLYTIC SINGLE CRYSTAL OF SILVER 67-09 M14-76511
DISLOCATION RELAXATIONS IN SINGLE-CRYSTAL AND POLYCRYSTALLINE NIOBIUM AND TANTALUM AT MEGAHERTZ FREQUENCIES 67-10 M16-78476
INFLUENCE OF THE SAMPLE GEOMETRY ON FREQUENCY AND Q-VALUE OF THE HELICON RESONANCE IN PBTE
67-10 M16-79356

SINGLE CRYSTALS, ADSORPTION
INVESTIGATION OF THE ADSORPTION AND ELECTRON EMISSION OF CESIUM FILMS ON A TUNGSTEN SINGLE CRYSTAL 67-09 M13-76785
ABSORPTION OF LITHIUM ON SINGLE-CRYSTAL TUNGSTEN FACES COATED WITH AN ADSORBED OXYGEN FILM
67-09 M14-76779
INVESTIGATION OF ADSORPTION OF CESIUM ON A TUNGSTEN SINGLE CRYSTAL 67-10 M14-79543
LEED AND HEED STUDIES OF THE INTERACTION OF OXYGEN WITH SINGLE CRYSTAL SURFACES OF COPPER
67-10 M14-79551
ADSORPTION OF NITROGEN ON SINGLE-CRYSTAL FACES OF TUNGSTEN 67-11 M14-80522

SINGLE CRYSTALS, ATOMIC PROPERTIES
SINGLE CRYSTAL MEASUREMENT OF THE ATOMIC SCATTERING FACTOR OF ALUMINIUM 67-06 M16-71278
THE ABSOLUTE X-RAY SCATTERING FACTOR OF MAGNESIUM
67-10 M16-78912
SURFACE ASYMMETRY MECHANISM FOR FRACTIONAL ORDER PEAKS OBSERVED IN LEED BEAMS FROM METALS
67-10 M16-79545
THE ELECTRON SPIN RESONANCE OF VO2 PLUS IONS B IN TWO TYPES OF ALUMINUM ALUMS
67-11 M16-80329

SINGLE CRYSTALS, ATOMIC STRUCTURE
EVALUATION OF THE ONE-ELECTRON POTENTIAL FOR AL CRYSTALS 67-07 M16-72964
LOCAL ORDER IN SOLID ALLOYS. PT. 1
67-08 M13-75338

SINGLE CRYSTALS, BAND THEORY
ON THE ELECTRONIC STRUCTURE OF NICKEL-VANADIUM ALLOYS 67-01 M16-57946
THERMAL AND OPTICAL BAND GAPS OF MONOCRYSTALLINE BETA-RHOMBOHEDRAL BORON 67-01 M16-58412
RECOMBINATION RADIATION OF BORON
67-01 M16-58418
SHUBNIKOV-DE HAAS EFFECT OF N-TYPE HGTE
67-03 M16-65647

SINGLE CRYSTALS, CASTING
A BREAKTHROUGH IN MAKING TURBINE COMPONENTS--DIRECTIONAL SOLIDIFICATION AND SINGLE CRYSTALS
67-02 M06-59458

SINGLE CRYSTALS, CHEMICAL PROPERTIES
THE CHEMICAL BOND AND THE STRUCTURE OF VALENCE BANDS IN COVALENT SEMICONDUCTORS
67-11 M15-80154
THE CHEMICAL BOND IN SEMICONDUCTORS OF THE A2 3 B3 6 TYPE 67-11 M16-80173

SINGLE CRYSTALS, COATING
ELECTRODEPOSITION OF COPPER ON COPPER SINGLE CRYSTALS --100--, --110-- AND --111-- FROM ACID COPPER SULFATE BATH 67-02 M14-60280
EVIDENCE FOR PSEUDOMORPHIC GROWTH OF IRON ON COPPER
67-09 M14-77517

SINGLE CRYSTALS, COMPOSITE MATERIALS
COMPOSITE MATERIALS--THE BUILDING-BLOCK TECHNOLOGY
67-01 M20-57399

SINGLE CRYSTALS, CORROSION
THE RELATIONSHIP BETWEEN THE DIRECTIONS OF THE GROWTH OF SURFACE RUST ON IRON AND THE ORIENTATION OF THE METAL 67-03 M18-65321
CONCERNING THE POSSIBLE ROLE OF ADSORBED STEP-POISONS IN STRESS-CORROSION CRACKING
67-04 M18-66694
INFLUENCE OF CRYSTAL ORIENTATION ON RUST FORMATION ON IRON SURFACES 67-12 M18-83513

SINGLE CRYSTALS, CRYSTAL DEFECTS
INFLUENCE OF JOG CONCENTRATION ON THE CONSERVATIVE MOTION OF DISLOCATIONS IN COPPER
67-03 M13-65894
ON DISLOCATIONS ETCHED IN DEFORMED CADMIUM SINGLE CRYSTALS 67-04 M13-66059
UNSTABLE DISLOCATIONS IN ANISOTROPIC CRYSTALS
67-05 M14-69777

SINGLE CRYSTALS, CRYSTAL GROWTH
ELECTRON DIFFRACTION STUDIES OF THE EPITAXY OF CU SINGLE CRYSTALS. PT. 2. EARLY STAGES OF EPITAXY AND INTERFACIAL DISLOCATION NETWORKS
67-01 M13-57109
CHANGE IN MOSAIC STRUCTURE ASSOCIATED WITH THE DISTRIBUTION OF IMPURITIES IN GROWING SINGLE CRYSTALS AND BICRYSTALS FROM THE MELT
67-01 M14-57102
EPITAXIAL DEPOSITION OF GERMANIUM BY BOTH SPUTTERING AND EVAPORATION 67-01 M14-57106
EPITAXIAL GROWTH OF BULK-QUALITY GALLIUM ARSENIDE ON GALLIUM ARSENIDE AND GERMANIUM SUBSTRATES
67-01 M14-57126
INTERRUPTED VAPOUR DEPOSITION OF EPITAXIAL GOLD FILMS GROWN INSIDE AN ELECTRON MICROSCOPE
67-01 M14-57565
THE GROWTH MORPHOLOGY OF ZINC AND CADMIUM SINGLE CRYSTALS INVESTIGATED BY ELECTRON MICROSCOPY
67-01 M14-57578
EPITAXIAL GROWTH OF GALLIUM ARSENIDE SOLID SOLUTION SINGLE CRYSTALS 67-01 M14-57654
CRYSTALLIZATION OF INDIUM PHOSPHIDE FROM THE GASEOUS PHASE 67-01 M14-57655
POSSIBILITIES OF USING INDUCTION HEATING AT AUDIOFREQUENCIES IN APPARATUS TO MANUFACTURE SEMICONDUCTING MATERIALS BY PULLING FROM THE MELT
67-01 M14-57686
METHODS OF DETERMINING THE DISTRIBUTION RATIOS OF VOLATILE IMPURITIES DURING GROWING OF GALLIUM ARSENIDE SINGLE CRYSTALS BY DIRECTED CRYSTALLIZATION 67-01 M14-57696
NEW ELECTRON BEAM OPTICS FOR THE PREPARATION OF INSULATING CRYSTALS BY THE FLOATING ZONE METHOD 67-01 M14-57948
GROWING PURE SINGLE CRYSTALS OF REFRACTORY METALS AND MEASUREMENT OF THE HALL EFFECT ON THESE
67-01 M14-58080
THE PROBLEM OF IMPURITY DISTRIBUTION IN SILICON SINGLE CRYSTALS GROWN BY THE CZOCHRALSKI METHOD
67-01 M14-58140
RHEOTAXIAL GROWTH OF SILICON WITH GERMANIUM-SILICON ALLOYS 67-01 M14-58317
STUDIES ON CRYSTALLIZATION OF PURE BORON
67-01 M14-58405
PREPARATION AND CHARACTERIZATION OF SINGLE-CRYSTAL BORON 67-01 M14-58406
GROWTH OF WHISKER CRYSTALS AND RELATED MORPHOLOGIES BY ELECTROTRANSPORT
67-01 M14-58694
GROWTH OF ZINC SINGLE-CRYSTAL FOILS FROM THE MELT
67-01 M14-58783
GROWING AND REFINING YTTRIUM SINGLE CRYSTALS
67-02 M03-61942
EPITAXY OF BODY-CENTERED CUBIC METALS EVAPORATED ONTO CLEAVAGE FACES OF ROCKSALT
67-02 M13-60522
DISTRIBUTION OF ANTIMONY IN SINGLE CRYSTALS OF GERMANIUM GROWN IN ASYMMETRICAL THERMAL FIELDS
67-02 M13-61724
SYNTHESIS OF A NEW DOUBLE OXIDE OF URANIUM AND NIOBIUM 67-02 M14-60556

PREPARATION OF SINGLE CRYSTALS OF IRON AND IRON ALLOYS 67-02 M14-60622
PREPARATION OF ORIENTED HG SINGLE CRYSTALS 67-02 M14-60921
GROWTH OF SINGLE CRYSTALS OF ZIRCALOY-2 67-02 M14-61298
THE GROWING OF SINGLE-CRYSTAL LAYERS OF IRON, NICKEL, COBALT AND THEIR ALLOYS 67-02 M14-61513
SELECTIVE EPITAXIAL DEPOSITION OF GALLIUM ARSENIDE IN HOLES 67-02 M14-61767
GROWING OF SINGLE CRYSTALLINE NICKEL FOILS 67-02 M14-61895
EFFECT OF SMALL ADDITIONS OF SILVER ON THE GROWTH OF GALLIUM CRYSTALS FROM THE MELT 67-02 M14-61927
ORIENTATION, PURITY AND PERFECTION OF MOLYBDENUM SINGLE CRYSTALS GROWN BY ELECTRON-BEAM ZONE MELTING 67-02 M14-62083
PRODUCTION OF CUPROUS OXIDE SINGLE CRYSTALS BY MELT 67-03 M14-65160
THE FORMATION OF SINGLE CRYSTAL FILMS OF FCC METALS ON ALKALI HALIDE CLEAVAGE PLANES IN ULTRAHIGH VACUUM 67-03 M14-65381
PREPARATION OF NIO SINGLE CRYSTALS BY CHEMICAL TRANSPORT 67-03 M14-65396
SINGLE-CRYSTAL GROWTH ON ALPHA-AL2O3 SUBSTRATE 67-03 M14-65642
A TECHNIQUE FOR GROWING SINGLE CRYSTALS OF AL-4 PER CENT CU OF A CHOSEN ORIENTATION 67-03 M14-65722
EPITAXIAL DEPOSITS OF GERMANIUM GROWN FROM SOLUTIONS OF TIN AND LEAD-TIN MIXTURES 67-03 M14-65772
PREPARATION OF SEMICONDUCTOR MATERIALS. PT. 3 67-03 M16-65456
DEFECT FORMATION IN EPITAXIAL FILMS ON NATIVE AND FOREIGN SUBSTRATES 67-04 M13-67741
OBTAINING SINGLE CRYSTALS OF IRON ALLOYED WITH SILICON BY THE NONCRUCIBLE ZONAL MELTING METHOD 67-04 M14-66024
APPARATUS FOR GROWING SINGLE CRYSTALS OF UNSTABLE SEMICONDUCTING COMPOUNDS 67-04 M14-66034
GROWING OF CDTE SINGLE CRYSTALS BY STATIC SUBLIMATION UNDER PRESSURE OF ONE COMPONENT 67-04 M14-66038
THE GROWTH OF LARGE SINGLE CRYSTAL SHEETS WITH THE --100-- --011-- ORIENTATION FROM ELECTROLYTIC IRON 67-04 M14-66269
PREPARATION OF TITANIUM DISILICIDE SINGLE CRYSTALS 67-04 M14-66343
IDENTIFICATION AND GROWTH TOPOLOGY OF CRYSTALS DEPOSITED IN AN AL-CU-AG ALLOY 67-04 M14-66395
SILICON CONTAMINATION OF GAAS CRYSTALS GROWN IN GLASSY CARBON BOATS 67-04 M14-67000
GROWING CADMIUM SELENIDE SINGLE CRYSTALS FROM MOLTEN ELEMENTS 67-04 M14-67442
PREPARATION OF OXIDE SINGLE CRYSTALS BY FLAME FUSION METHOD 67-04 M14-67579
PREPARATION OF TUBULAR GERMANIUM CRYSTALS 67-04 M16-66871
FORMS OF GROWTH OF CU WHISKERS AND DETERMINATION OF THEIR CRYSTAL STRUCTURE BY ELECTRON DIFFRACTION 67-05 M13-68645
THORIA SINGLE CRYSTALS GROWN BY VAPOR DEPOSITION IN A SOLAR FURNACE 67-05 M14-68286
PREPARATION OF EPITAXIAL GAXIN1-XAS 67-05 M14-68623
LOW-ENERGY ELECTRON DIFFRACTION STUDIES OF EPITAXIAL GROWTH OF SILVER AND GOLD IN ULTRA-HIGH VACUUM 67-05 M14-69426
CONTROLLED GROWTH OF TIN DENDRITES 67-06 M14-70410
A THEORY OF ORIENTATION EFFECTS IN NUCLEATION ON A CRYSTALLINE SUBSTRATE 67-06 M14-70897
CRYSTAL GROWTH AND POLYTYPISM 67-06 M14-71033
RAPID VAPOR PHASE GROWTH OF HIGH-RESISTIVITY GAP FOR ELECTRO-OPTIC MODULATORS 67-06 M14-71150
SOME INTERESTING GROWTH PATTERNS ON VAPOUR-GROWTH CADMIUM SINGLE CRYSTALS 67-06 M14-71201
PROCESS FOR GROWTH OF SINGLE-CRYSTAL SILICON RIBBON 67-06 M14-71696
THE GROWTH OF LARGE SINGLE CRYSTAL SHEETS WITH THE --100-- --011-- ORIENTATION FROM ELECTROLYTIC IRON 67-06 M14-71733
DISTRIBUTION OF IMPURITIES IN THE MELT AND EFFECT OF STIRRING IN GROWTH OF GERMANIUM SINGLE CRYSTALS 67-06 M14-72115
GROWTH OF CDS FROM LIQUID CD SOLUTION 67-06 M14-72176
DETERMINATION OF MICROSCOPIC RATES OF GROWTH IN SINGLE CRYSTALS 67-06 M14-72181
GROWTH OF THE CLOSE-PACKED --111-- PLANE OF GOLD SINGLE CRYSTALS 67-07 M14-72641
GROWTH OF ZNO SINGLE CRYSTALS 67-07 M14-72649
RECENT PROGRESS IN THE PREPARATION OF VERY PURE GALLIUM ARSENIDE 67-07 M14-72921
CRYSTAL GROWTH AND ORIENTATION OF VACUUM DEPOSITED FILMS OF CDTE 67-07 M14-73318
CHEMICAL VAPOR GROWTH OF SINGLE-CRYSTAL MAGNETIC OXIDE FILMS 67-07 M14-73523
EPITAXIAL GROWTH OF VO2 SINGLE CRYSTALS AND THEIR ANISOTROPIC PROPERTIES IN ELECTRICAL RESISTIVITIES 67-07 M14-73996
PREPARATION AND SOME PROPERTIES OF SOLID SOLUTIONS CD1-XMGXTE 67-08 M14-75058
DEFECTS IN SILICON CRYSTALS GROWN BY THE VLS TECHNIQUE 67-08 M14-75117
TECHNIQUES FOR THE GROWTH OF LARGE SINGLE CRYSTALS OF POTASSIUM OF HIGH PURITY 67-08 M14-75668
COMPOSITIONAL INHOMOGENEITY OF --BA, PB-- TIO3 CRYSTALS 67-08 M14-75991
GROWTH OF COMPLEX SINGLE-CRYSTAL HEXAGONAL FERRITES 67-08 M14-75998
ALUMINA CRYSTAL GROWTH BY SOLID-STATE TECHNIQUES 67-08 M14-76094
EFFECTS OF THE CONDITIONS UNDER WHICH ALUMINUM MONOCRYSTALS GROW OUT OF MOLTEN ALUMINUM ON THEIR DISLOCATIONAL STRUCTURE 67-09 M14-76887
THE PRODUCTION OF MERCURY TELLURIDE MONOCRYSTALS 67-09 M14-76936
OBTAINING SINGLE CRYSTALS OF REFRACTORY METALS BY THE CZOCHRALSKI METHOD 67-09 M14-77277
IMPURITY DISTRIBUTION IN SINGLE CRYSTALS. PT. 3. IMPURITY HETEROGENEITIES IN SINGLE CRYSTALS ROTATED DURING PULLING FROM THE MELT 67-09 M14-77896
EVIDENCE FOR THE PROPAGATION OF CRYSTAL DEFECTS FROM THE SUBSTRATE INTO AN EPITAXIAL OVERGROWTH 67-10 M14-78752
OBSERVATION OF THE GROWTH PROCESS OF GALLIUM ARSENIDE ON TUNGSTEN 67-10 M14-79024
EPITAXIAL GROWTH OF GOLD AND SILVER ON MAGNESIUM OXIDE CLEAVED IN ULTRAHIGH VACUUM 67-10 M14-79405
ZONE MELTING OF BERYLLIUM AND PULLING FROM THE MELT 67-11 M03-81157
SILICON STRIP CRYSTALS AND THEIR APPLICATION IN MICROELECTRONICS 67-11 M12-81432
A NEW SYNTHESIS OF 6-METHYL-3-PYRIDINOL 67-11 M14-80705
PRODUCING SINGLE CRYSTALS OF PURE ALUMINUM BY THE STRONG METHOD 67-11 M14-80728
GROWTH OF RUTILE --TIO2-- SINGLE CRYSTALS FROM LI2O-MOO3 FLUX 67-11 M14-80821
GROWTH OF GALLIUM ARSENIDE SINGLE CRYSTAL FROM LIQUID PHASE ON SEED CRYSTAL 67-11 M14-80822
GROWTH OF NONDENDRITIC SINGLE-CRYSTAL RIBBONS OF GERMANIUM 67-11 M14-80837
OBTAINING GERMANIUM CRYSTALS BY A. V. STEPANOVS METHOD 67-11 M14-81635
HIGH TEMPERATURE VERNEUIL CRYSTAL GROWTH BY ARC MELTING 67-12 M14-82669

SINGLE CRYSTALS, CRYSTAL LATTICES

ELECTRON DIFFRACTION STUDIES OF THE EPITAXY OF CU SINGLE CRYSTALS. PT. 1. EPITAXY OF EVAPORATED CU FILMS ON CU CRYSTALS 67-01 M13-57108
X-RAY DIFFRACTION MEASUREMENTS OF STACKING FAULTS IN ALPHA SILVER-TIN ALLOYS 67-01 M13-57122
ELECTRON MICROSCOPY AND DIFFRACTION OF SYNTHETIC CORUNDUM CRYSTALS. PT. 2. DISLOCATIONS AND GRAIN BOUNDARIES IN IMPURITY-DOPED ALUMINIUM OXIDE 67-01 M13-57481
DETERMINATION OF THE DISPLACEMENT VECTOR AT THE ANTI-PHASE BOUNDARIES IN RUTILE BY CONTRAST EXPERIMENTS IN THE ELECTRON MICROSCOPE 67-01 M13-57568
ELECTRON DIFFRACTION CONTRAST OF SMALL STACKING FAULT TETRAHEDRA WITH APPLICATIONS TO QUENCHED GOLD 67-01 M13-57574
EFFECT OF SMALL QUANTITIES OF ADDED IMPURITIES ON THE DISLOCATION STRUCTURE OF ALUMINUM SINGLE CRYSTALS 67-01 M13-57660
PRECIPITATION AT SUPERLATTICE DOMAIN BOUNDARIES WITH PARTICULAR REFERENCE TO A COPPER-ALUMINIUM-NICKEL ALLOY 67-01 M14-57477
DISLOCATION SUBSTRUCTURE IN IRON INDUCED BY ALPHA-

GAMMA-ALPHA TRANSFORMATION CYCLING
67-01 M14-58466
EFFECT OF THE RECOVERY OF POINT DEFECTS ON THE COERCIVE FIELD OF NICKEL SINGLE CRYSTALS WITHIN THE TEMPERATURE RANGE-250 TO 0 C
67-01 M15-58657
LATTICE VIBRATIONS OF ALUMINIUM ON THE BASIS OF KREBSS MODEL 67-01 M16-57566
GROWTH OF DEFORMATION TWINS IN ZINC CRYSTALS
67-01 M17-57484
DELTA-U3O8 A HIGH TEMPERATURE MODIFICATION. PT. 2, SINGLE CRYSTAL STUDIES 67-02 M13-59053
PERIODIC DISPLACEMENTS OF ATOMS IN CUAU II
67-02 M13-59064
DISLOCATION ETCH PITS AND PHASE RELATIONSHIPS IN DIMOLYBDENUM CARBIDE SINGLE CRYSTALS
67-02 M13-59068
CRYSTAL STRUCTURES OF ALPHA- AND BETA-INDIUM SELENIDE, IN2SE3 67-02 M13-59479
THE EQUILIBRIUM FORM OF A TWIN DELAYED AT AN OBSTACLE 67-02 M13-59669
PROBLEM OF EXPOSING DISLOCATIONS IN METALLIC CRYSTALS BY SELECTIVE ETCHING
67-02 M13-60784
INVESTIGATION OF THE DECOMPOSITION OF VACANCY AGGLOMERATES IN NEUTRON-IRRADIATED NICKEL WITH THE AID OF THE CRITICAL SHEAR STRESS
67-02 M13-61516
STRUCTURAL INVESTIGATIONS ON PRECIPITATION AT ROOM AND AT ELEVATED TEMPERATURE. QUANTITATIVE ANALYSIS OF LATTICE DIRECTIONS IN SPHERICAL GUINIER-PRESTON ZONES 67-02 M14-60118
ISOTHERMAL ANNEALING STUDIES ON VACANCY AND INTERSTITIAL LOOPS IN SINGLE CRYSTAL GRAPHITE
67-02 M14-60813
MEASUREMENTS ON LOCAL VARIATIONS IN SPACING AND ORIENTATION OF THE LATTICE PLANE OF SILICON SINGLE CRYSTALS BY X-RAY DOUBLE-CRYSTAL TOPOGRAPHY 67-03 M13-65158
MEASUREMENTS OF THE ANISOTROPY OF THE DISLOCATION RESISTIVITY IN AU, AG, AND CU
67-03 M13-65217
MECHANICAL TWINNING IN COLD-ROLLED SILVER SINGLE CRYSTALS 67-03 M13-65231
OBSERVATION OF BERYLLIUM SINGLE CRYSTALS BY X-RAY TOPOGRAPHY 67-03 M13-65264
CRYSTALLOGRAPHY OF SIP AND SIAS SINGLE CRYSTALS AND OF SIP PRECIPITATES IN SI 67-03 M13-65872
MULTIPLE DIFFRACTION EFFECTS IN ANNEALED PERMALLOY FILMS 67-03 M13-65882
THE RATE OF TWIN LAYER GROWTH IN BISMUTH SINGLE CRYSTALS 67-03 M14-65228
ON THE RECOVERY OF PLASTICALLY DEFORMED IRON SINGLE CRYSTALS ABOVE ROOM TEMPERATURE
67-03 M14-65233
LOW-TEMPERATURE INTERNAL FRICTION IN SILICON
67-03 M16-65632
THE CRYSTAL DISTORTION OF VANADIUM
67-04 M13-67482
DEPENDENCE OF THE STARTING STRESS FOR PYRAMIDAL DISLOCATIONS ON THE TEMPERATURE AND DEGREE OF PERFECTION OF ZINC CRYSTALS 67-04 M13-67647
ELECTRON MICROSCOPIC OBSERVATION OF CROSSED LATTICES IN GOLD CRYSTAL FILMS
67-04 M13-68122
STUDY OF THE CRYSTAL STRUCTURE OF YUNOK35T5 ALLOY IN OPTIMUM MAGNETIC STATE 67-04 M14-66494
ORDERED ALLOYS OF THE GOLD-PALLADIUM SYSTEM. PT. 2. ELECTRON DIFFRACTION STUDY ON EVAPORATED AUPD3 FILMS 67-04 M14-67477
PROBLEM OF THE X-RAY DIFFRACTION ANALYSIS OF THE POLYGONIZATION OF ALUMINIUM SINGLE CRYSTALS
67-04 M14-67658
ULTRASONIC METHODS IN THE STUDY OF PLASTIC DEFORMATION 67-04 M17-66226
STUDIES OF THE DEFECT STRUCTURE OF NONSTOICHIOMETRIC RUTILE, TIO2-X
67-05 M13-68624
TWINNING AND DEFORMATION OF BE BY THE CLIMB OF DISLOCATIONS 67-05 M13-69456
ROLLING TEXTURE OF --112-- --110-- COPPER SINGLE CRYSTAL 67-05 M14-69884
THE PLASTICITY OF PURE NIOBIUM SINGLE CRYSTALS
67-05 M17-69465
THE OBSERVATION OF DISLOCATIONS WITH BURGERS VECTOR A --100-- IN A SINGLE CRYSTAL OF FE-SI ALLOY 67-06 M13-70593
DISLOCATION ARRANGEMENT AND STRENGTHENING IN STAGE 2 IN PLASTICALLY DEFORMED GOLD SINGLE CRYSTALS
67-06 M13-71021
DISLOCATIONS AND STAGE 1 PLASTIC DEFORMATION OF GOLD SINGLE CRYSTALS 67-06 M13-71088
SOME ELECTRON DIFFRACTION CONTRAST EFFECTS AT PLANAR DEFECTS IN CRYSTALS 67-06 M13-71280
THE CRYSTAL STRUCTURE OF CE5MG42
67-06 M13-71404
DISLOCATION DISTRIBUTION IN DEFORMED SILVER SINGLE CRYSTALS 67-06 M13-71525
DISLOCATION DISTRIBUTION IN DEFORMED GERMANIUM
67-06 M13-71538
DISLOCATION STRUCTURES IN COPPER SINGLE CRYSTALS DEFORMED IN HIGH TEMPERATURE CREEP
67-06 M13-71539
LOW-ENERGY ELECTRON DIFFRACTION OBSERVATIONS OF ALPHA-ALUMINA 67-06 M13-71678
DIRECT OBSERVATION OF GROWTH OF DEFORMATION TWINS IN FE-4.5 PER CENT SI CRYSTALS
67-06 M13-72149
STUDY OF DISLOCATION AND SLIP SYSTEMS IN CD AND ZN SINGLE CRYSTALS 67-06 M13-72371
AN ELECTRON MICROSCOPE INVESTIGATION OF EXPLOSIVELY LOADED COPPER 67-06 M14-71279
WORK HARDENING AND DISLOCATION STRUCTURE IN TA AND TA-BASE ALLOYS 67-06 M14-71284
DISLOCATION STRUCTURE IN AS-GROWN HIGH-PURITY IRON SINGLE CRYSTALS 67-06 M14-71527
REACTIONS BETWEEN VACANCIES AND IMPURITIES IN MAGNESIUM OXIDE. PT. 1. CR3 PLUS-ION IMPURITIES
67-06 M14-72197
REACTIONS BETWEEN VACANCIES AND IMPURITIES IN MAGNESIUM OXIDE. PT. 2. MN4 PLUS-ION AND OH EQUALS -ION IMPURITIES 67-06 M14-72198
LEED MEASUREMENT OF H2S AND H2SE ADSORPTION ON GERMANIUM --111-- 67-06 M15-71028
ANODIC BEHAVIOR OF GAAS SINGLE CRYSTALS AT INCREASED CURRENT DENSITIES IN ALKALINE AND ACIDIC SOLUTIONS 67-06 M15-71148
ULTRASONIC MEASUREMENT IN SINGLE-CRYSTAL NB3SN
67-06 M16-69917
INVESTIGATIONS ON SOME DEFORMATION MODES OF BERYLLIUM 67-06 M17-71540
STRESS AND DELAY TIME FOR THE APPEARANCE OF TWINNING DEFORMATION IN IRON SINGLE CRYSTALS
67-06 M17-71734
DISLOCATION MOTION IN COPPER SINGLE CRYSTALS
67-07 M13-72406
DISLOCATION VELOCITIES IN NICKEL SINGLE CRYSTALS
67-07 M13-72658
AN ABSOLUTELY PRECISE DETERMINATION OF THE LATTICE CONSTANTS OF SI SINGLE CRYSTALS BY ELECTRON DIFFRACTION 67-07 M13-72757
SLIP BEHAVIOR IN COPPER CRYSTALS PREVIOUSLY DEFORMED ON ANOTHER SLIP SYSTEM
67-07 M13-73058
APPLICATION OF X-RAY TOPOGRAPHY TO THE ANALYSIS OF THE DISLOCATION ARRANGEMENT IN DEFORMED COPPER SINGLE CRYSTALS 67-07 M13-73061
A LOW ENERGY ELECTRON DIFFRACTION STUDY OF THE --100--, --110-- AND --111-- SURFACE OF GOLD
67-07 M13-73917
DISLOCATION DENSITY AND LOCAL SLIP IN GERMANIUM SINGLE CRYSTALS 67-07 M13-73928
DISLOCATION VELOCITY MEASUREMENTS AND THERMALLY ACTIVATED MOTION IN MOLYBDENUM
67-07 M13-73931
RECOVERY OF ULTRASONIC ATTENUATION IN COPPER SINGLE CRYSTALS FOLLOWING SMALL PLASTIC DEFORMATION
67-07 M14-72637
EFFECT OF GRIP STRESSES ON DISLOCATION CONFIGURATION AFTER PLASTIC DEFORMATION
67-07 M14-72644
DISLOCATION DAMPING IN ZINC SINGLE CRYSTALS
67-07 M14-72886
THE NATURE AND FORMATION OF BANDS OF DEFORMATION IN SINGLE CRYSTALS OF ALPHA-PHASE COPPER-ALUMINUM ALLOYS 67-07 M14-73055
ON THE MORPHOLOGY AND POLARITY OF THE ZNO CRYSTAL
67-07 M14-73323
LARGE AREA SILICON JUNCTIONS BY EPITAXIAL GROWTH TECHNIQUE 67-07 M14-73461
SLIP IN BERYLLIUM SINGLE CRYSTALS COMPRESSED ALONG THE C-AXIS NEAR 200 C 67-07 M14-73744
ORIENTATION DEPENDENCE OF DISLOCATION DAMPING IN MAGNESIUM SINGLE CRYSTALS 67-07 M17-72659
A DEVICE FOR THE CONTINUOUS DETERMINATION OF THE CRYSTALLOGRAPHIC ORIENTATION OF FILIFORM SINGLE CRYSTALS 67-07 M19-73894
EXPERIMENTAL STUDIES ON DYNAMIC MULTIPLE

REFLECTIONS OBSERVED IN THIN FILMS OF METALS AND ALLOYS BY ELECTRON DIFFRACTION 67-08 M13-74414
EFFECTS OF SPECIMEN THICKNESS AND ORIENTATION ON WEIGHT LOSS OF ALPHA-BRASS SINGLE CRYSTALS DUE TO HEATING IN VACUUM 67-08 M13-74604
STUDY OF DISLOCATION MOBILITY IN ZINC SINGLE CRYSTALS 67-08 M13-74642
THE CRYSTAL STRUCTURES OF RARE-EARTH MONOSILICIDES 67-08 M13-74783
LATTICE VIBRATIONS IN IRON AT 296K 67-08 M13-75001
THE INFLUENCE OF ELASTIC ANISOTROPY ON SOME PROPERTIES OF GLIDE DISLOCATIONS IN BCC CRYSTALS 67-08 M13-75330
THE USE OF X-RAY TOPOGRAPHY FOR THE OBSERVATION AND CHARACTERIZATION OF GROSS IMPERFECTIONS IN SAPPHIRE SINGLE CRYSTALS 67-08 M13-75995
RARE EARTH-GERMANIUM AND -SILICON COMPOUNDS AT 5..4 AND 5..3 COMPOSITIONS 67-08 M13-76139
EVOLUTION OF FOLDS DURING HOT TENSILE STRESSING OF LARGE AL CRYSTALS 67-08 M13-76218
STRIATIONS ON COPPER SINGLE CRYSTALS SUBJECTED TO TORSIONAL FATIGUE. PT. 1. A TEST OF THE RELATION OF CROSS SLIP TO FATIGUE STRIATION FORMATION 67-08 M14-75122
STRIATIONS ON COPPER SINGLE CRYSTALS SUBJECTED TO TORSIONAL FATIGUE. PT. 2. THE MECHANISM OF FATIGUE STRIATION FORMATION AND FATIGUE FAILURE AT LOW STRAIN AMPLITUDES 67-08 M14-75123
PHYSICAL CHARACTERIZATION OF MO SINGLE CRYSTALS FOR IRRADIATION EXPERIMENTS 67-08 M14-75994
THE AXIAL ORIENTATION OF NORMAL STRESSES IN ZN AND SB SINGLE CRYSTALS 67-08 M17-75902
FIELD EMISSION OF CHROMIUM, COBALT AND HAFNIUM 67-09 M13-76452
THE WIDTHS OF GLISSILE EXTENDED DISLOCATIONS IN ANISOTROPIC FACE-CENTERED CUBIC CRYSTALS 67-09 M13-76588
THE DEPENDENCE OF YIELD STRESS ON FOREST DISLOCATION DENSITY IN COPPER SINGLE CRYSTALS 67-09 M13-76598
FORMATION OF DISLOCATION NETWORKS IN GALLIUM SINGLE CRYSTALS 67-09 M13-77427
ETCHING PHENOMENA IN THE --111-- PLANE OF NIOBIUM 67-09 M13-77430
STRESS FIELDS AROUND THE EDGE DIPOLE IN CD, ZN AND MG ANISOTROPIC CRYSTALS 67-09 M13-77516
SPONTANEOUSLY AND ARTIFICIALLY RECRYSTALLIZED TEXTURES IN ROLLED 3 PER CENT SILICON-IRON SINGLE CRYSTALS 67-09 M13-77716
EFFECT OF THE CONCENTRATION OF SI ON THE SUBSTRUCTURE OF AL MONOCRYSTALS 67-09 M13-77753
THE ARRANGEMENT AND DISTRIBUTION OF DISLOCATIONS IN DEFORMED CU-AL SINGLE CRYSTALS 67-09 M13-77990
DISLOCATION DENSITIES IN DEFORMED CU-AL SINGLE CRYSTALS 67-09 M13-77991
LATTICE DEFECTS IN SINGLE CRYSTALS OF COARSE-GRAINED POLYCRYSTALLINE IRON SPECIMENS DURING TENSILE DEFORMATION 67-09 M14-76795
MICROPROBE INVESTIGATIONS OF COPPER PRECIPITATES IN SILICON SINGLE CRYSTALS 67-10 M13-79011
ARRAYS OF DISLOCATION DIPOLES IN CADMIUM 67-10 M13-79014
DEFORMATION OF NEUTRON-IRRADIATED COPPER SINGLE CRYSTALS 67-10 M14-78909
ON THE WORK-HARDENING OF HCP METALS 67-10 M17-79731
REFINEMENT OF A TH2NI17-TYPE STRUCTURE, CEMG1.03 67-11 M13-80491
EFFECT OF TEMPERATURE ON THE PENETRATION OF HEAVY KEV IONS IN MONOCRYSTALLINE SOLIDS. PT. 2. VARIOUS IONS IN GOLD, ALUMINUM, AND TUNGSTEN 67-11 M16-80323
NEUTRON DIFFRACTION STUDY OF THE DEBYE-WALLER FACTOR FOR ALUMINUM 67-11 M16-80488
EFFECT OF CADMIUM ALLOY CONCENTRATION ON THE SUBSTRUCTURE AND DISLOCATION DENSITY IN ZINC SINGLE CRYSTALS 67-12 M13-82339
SURFACE STRUCTURE OF CLEAN AU --100-- AND AG --100-- SURFACES 67-12 M13-82523
FOREST DISLOCATIONS IN SILVER SINGLE CRYSTALS 67-12 M13-82553
STRUCTURE OF AN ADSORBED SULFUR LAYER ON THE --100-- FACE OF COPPER 67-12 M13-82591
MECHANICAL PROPERTIES OF IRON SINGLE CRYSTALS WITH VARYING ORIENTATIONS AS A FUNCTION OF TEMPERATURE 67-12 M13-82596
X-RAY SPECTROSCOPIC INVESTIGATION OF THE BLOCK STRUCTURE OF CURVED ALUMINUM SINGLE CRYSTALS 67-12 M13-83362

SINGLE CRYSTALS, CRYSTAL STRUCTURE
KINKING IN MGO SINGLE CRYSTALS UNDER HIGH CONFINING PRESSURE 67-05 M13-68295
EXPLANATION OF THE CONTRAST DIFFERENCES OF AMORPHOUS AND CRYSTALLINE OBJECTS IN ELECTRON MICROSCOPY 67-06 M13-72144

SINGLE CRYSTALS, CUTTING
AN ACID SAW FOR THE STRAIN-FREE CUTTING OF SINGLE CRYSTALS 67-06 M13-71013
A DEVICE FOR ORIENTATED CUTTING OF CRYSTALS AND ITS OPERATION AND APPLICATIONS 67-08 M13-74434
OBSERVATIONS ON SPECIMEN CUTTING BY WIRES 67-09 M08-78183

SINGLE CRYSTALS, DEFORMATION
X-RAY DIFFRACTION STUDY OF THE GEOMETRY OF PLASTIC FLOW AND DEFORMATION BLOCKING IN MOLYBDENUM SINGLE CRYSTALS 67-05 M17-68844
A CRITICAL REVIEW OF THE PEIERLS MECHANISM 67-06 M17-71524
SLIP PLANES IN FE-3 PER CENT SI SINGLE CRYSTALS DEFORMED AT 77 K 67-06 M17-71526

SINGLE CRYSTALS, DETECTORS
FABRICATION OF THICK GERMANIUM DETECTORS 67-08 M20-75307

SINGLE CRYSTALS, DIFFRACTION
TEMPERATURE DEPENDENCE OF DYNAMICAL ELECTRON DIFFRACTION INTENSITIES OF POLYCRYSTALLINE FOILS 67-02 M13-61825

SINGLE CRYSTALS, DIFFUSION
SURFACE AND GRAIN-BOUNDARY DIFFUSION OF GOLD-COPPER 67-01 M14-57104
EFFECT OF A DC FIELD ON THE LATTICE DIFFUSION OF SILVER-110 IN COPPER AND GOLD 67-01 M14-57575
THE DIFFUSION OF CALCIUM IN MAGNESIUM OXIDE 67-01 M14-57943
INTERSTITIAL DIFFUSION OF GOLD AND SILVER IN INDIUM 67-02 M14-60765
SPREADING OF GALLIUM ON TIN SURFACE 67-02 M14-60972
DIFFUSION OF NITROGEN INTO SILICON CARBIDE SINGLE CRYSTALS DOPED WITH ALUMINUM 67-02 M14-61502
DIFFUSION OF LI IN INSB 67-02 M16-60520
COPPER DIFFUSED GALLIUM ARSENIDE P-N JUNCTIONS 67-04 M16-66119
ISOTOPE EFFECTS IN THE DIFFUSION AND SOLUBILITY OF HYDROGEN IN NICKEL 67-05 M14-69674
DIFFUSION AND SOLUBILITY OF HYDROGEN IN SINGLE CRYSTALS OF NICKEL AND NICKEL-VANADIUM ALLOY 67-05 M14-69675
CORRELATION COEFFICIENT AND THE ISOTOPE EFFECT FOR THE DIFFUSION OF ZINC IN SILVER 67-06 M14-69908
ANISOTROPIC DIFFUSION OF MERCURY IN ZINC 67-06 M14-69911
DIFFUSION OF ANTIMONY IN EPITAXIAL GERMANIUM LAYERS 67-06 M14-71760
DIFFUSION OF INDIUM OVER THE SURFACE OF GERMANIUM 67-06 M14-71831
DIFFUSION OF ANTIMONY IN EPITAXIAL LAYERS OF GERMANIUM 67-06 M14-71921
SURFACE SELF-DIFFUSION AND SURFACE ENERGY OF NICKEL 67-07 M14-72643
SELF-DIFFUSION OF CALCIUM IN SINGLE CRYSTAL CALCIUM OXIDE 67-07 M14-73636
SELF-DIFFUSION IN BERYLLIUM SINGLE CRYSTALS 67-07 M14-73748
STRESS-INDUCED SOLUTE DIFFUSION ALONG DISLOCATIONS IN DILUTE COPPER ALLOYS 67-07 M14-73911
SELF-DIFFUSION IN TELLURIUM. PT. 1. ANISOTROPY AND IMPURITY EFFECT 67-07 M14-73934
SELF-DIFFUSION IN TELLURIUM. PT. 2. GRAIN BOUNDARY AND DISLOCATION EFFECTS 67-07 M14-73935
DIFFUSION OF ALKALI METALS IN MOLYBDENUM AND COLUMBIUM 67-07 M14-74189
ANISOTROPIC DIFFUSION OF NICKEL IN ZINC STUDIED BY AN AUTORADIOGRAPHIC METHOD 67-08 M14-74667
DIFFUSION OF POTASSIUM IN SINGLE CRYSTALS AND POLYCRYSTALLINE AGGREGATES OF MOLYBDENUM 67-08 M14-74976
REAL STRUCTURE AND REACTIVITY OF SILICON SINGLE CRYSTALS 67-09 M13-76775
THERMAL ETCHING OF COPPER SINGLE CRYSTALS

67-10 M13-78566
ANISOTROPIC ISOTOPE EFFECT FOR DIFFUSION OF ZINC AND CADMIUM IN ZINC 67-10 M14-79411
SELF-DIFFUSION OF GERMANIUM ALONG INHERENT DISLOCATIONS IN AN EXTERNAL ELECTRIC FIELD 67-10 M14-80088
DIFFUSIONAL PROPERTIES OF THE STAGE-3 DEFECT IN COPPER. PT. 1. EXPERIMENTAL RESULTS 67-11 M16-81080
THE NATURE OF THE SOURCE OF DISLOCATION LOOPS GENERATED BY GOLD DIFFUSION INTO SILICON CRYSTALS 67-12 M13-82674
THE INFLUENCE OF CARBON ON PRECIPITATION OF COPPER IN SILICON SINGLE CRYSTALS 67-12 M14-82004
INVESTIGATION OF COPPER DIFFUSION IN BI2TE3 BY ETCHING TECHNIQUE 67-12 M14-82362

SINGLE CRYSTALS, DISLOCATIONS
DISLOCATIONS IN DEFORMED SINGLE CRYSTALS 67-07 M14-73750

SINGLE CRYSTALS, ELECTRICAL PROPERTIES
STUDY OF IRREGULARITIES DETECTED BY ANODE PICKLING IN N-TYPE GERMANIUM MONOCRYSTALS 67-02 M13-59566
ORIENTATION DEPENDENCY OF A RESISTANCE INCREASE CAUSED BY ALPHA IRRADIATION 67-02 M15-59910
THE MAGNETORESISTANCE EFFECT AND THE ELECTRIC RESISTANCE OF SINGLE CRYSTALS OF COBALT 67-02 M15-60275
INVESTIGATION OF GALVANOMAGNETIC PROPERTIES OF HYDROGENATED PALLADIUM SINGLE CRYSTALS 67-02 M15-61118
PHOTOCONDUCTIVITY OF ANISOTROPICALLY DEFORMED INTRINSIC GERMANIUM 67-02 M15-61522
THE EXIT POTENTIAL OF SPHERICAL CU SINGLE CRYSTALS WITH A VIRGIN SURFACE 67-03 M15-65439
TEMPERATURE DEPENDENCE OF ELECTRON SCATTERING IN THIN SINGLE CRYSTAL FILMS OF GALLIUM AT HE TEMPERATURES 67-03 M16-65140
GALVANOMAGNETIC EFFECTS IN SINGLE-CRYSTAL ZRB2 67-03 M16-65393
ELECTRICAL RESISTIVITY OF SINGLE CRYSTAL CRO2 67-03 M16-65649
PHOTOCONDUCTIVITY DECAY OF ZNO CRYSTALS IN OXYGEN 67-03 M16-65749
DISTRIBUTIONS OF ELECTRICALLY ACTIVE DEFECTS IN THE SURFACE REGION OF CDS SINGLE CRYSTALS 67-03 M16-65806
WORK FUNCTION OF TUNGSTEN SINGLE CRYSTALS 67-04 M15-66512
ELECTRICAL RESISTIVITY OF ALPHA URANIUM CRYSTALS IN THE TEMPERATURE RANGE 67 TO 293 K 67-04 M15-67463
ELECTRICAL RESISTANCE OF IRRADIATED ALPHA URANIUM CRYSTALS 67-04 M15-67464
ELECTRICAL PROPERTIES OF SINGLE-CRYSTAL SILVER FILMS 67-04 M15-67661
BEHAVIOR OF GALVANOMAGNETIC COEFFICIENTS OF BISMUTH FILMS IN THE QUANTUM SIZE REGION 67-05 M15-69100
TRANSIENT CURRENT DECAY IN SEMICONDUCTING ZNO DUE TO THE ACOUSTO-ELECTRIC EFFECT 67-05 M16-69099
MAGNETORESISTANCE OF CRYSTALLINE MERCURY 67-06 M15-69913
HIGH PURITY EXPITAXIAL INAS 67-06 M15-70084
COMMENTS ON THE LOW TEMPERATURE ELECTRICAL RESISTIVITY OF LATTICE DEFECTS IN DEFORMED TUNGSTEN SINGLE CRYSTALS 67-06 M15-70429
REPLY TO COMMENTS ON THE LOW TEMPERATURE ELECTRICAL RESISTIVITY OF LATTICE DEFECTS IN DEFORMED TUNGSTEN SINGLE CRYSTALS 67-06 M15-70430
RESISTIVITY INHOMOGENEITIES IN SILICON CRYSTALS 67-06 M15-70663
ANOMALOUS RESISTANCE OF PURE GALLIUM NEAR 1.7 K 67-06 M15-71065
RESISTIVITY OF DEFORMED CRYSTALS 67-06 M15-71536
STRUCTURE, CONDUCTIVITY AND HALL EFFECT OF ELECTRON BOMBARDMENT EVAPORATED SILICON FILMS ON SAPPHIRE 67-06 M15-72001
DIELECTRICALLY ISOLATED SILICON WITH A SHARP IMPURITY GRADIENT 67-06 M16-71694
INFLUENCE OF DIRECTIONAL DEFORMATION ON THE FUNDAMENTAL ABSORPTION EDGE OF TRIGONAL SELENIUM SINGLE CRYSTALS 67-06 M16-71771
LIFETIME IN SINGLE CRYSTALS OF GALLIUM ARSENIDE 67-06 M16-71830
ANISOTROPY OF THE EXTRAORDINARY HALL EFFECT OF NI SINGLE CRYSTALS 67-07 M15-72409
TIME DEPENDENT CONDUCTIVITY IN TITANIUM OXIDE 67-07 M15-73638
CARRIER RECOMBINATION IN INAS 67-07 M16-74059
GALVANOMAGNETIC PROPERTIES OF SINGLE-CRYSTAL ANTIMONY BETWEEN 77 AND 273 K 67-07 M16-74060
PRODUCTION AND PURITY CONTROL OF TUNGSTEN AND MOLYBDENUM SINGLE CRYSTALS 67-08 M01-75875
THE EFFECT OF SILICON ON CUPROUS OXIDE 67-08 M15-74610
THE DIELECTRIC CONSTANT OF ZIRCONIA 67-08 M15-76253
DE HAAS-SHUBNIKOV OSCILLATIONS IN THE HALL EFFECT IN ARSENIC 67-08 M16-75826
ELECTRIC AND THERMOELECTRIC EFFECTS IN A SOLID SOLUTION OF ZNXCD1-XSB 67-09 M15-76737
PREPARATION OF CU2SE SINGLE CRYSTALS AND INVESTIGATION OF THEIR ELECTRICAL PROPERTIES 67-10 M15-79004
EFFECT OF DONOR IMPURITY CONCENTRATION ON THE PIEZORESISTANCE OF N-TYPE GASB 67-10 M15-79015
EPITAXIAL FILMS OF PBTE, PBSE AND PBS GROWN ON MICA SUBSTRATES 67-10 M15-79337
MEASUREMENT OF THE SHUBNIKOVDE HAAS EFFECT IN GRAPHITE AT PRESSURES UP TO 8 KBAR 67-10 M15-79466
CONTACT POTENTIAL DIFFERENCE BETWEEN THE --111-- AND --111-- SURFACES OF INSB CLEAVED IN ULTRAHIGH VACUUM 67-10 M15-79574
THE RECOVERY SPECTRUM OF COBALT 67-12 M15-82011
THE EFFECTS OF DEFORMATION ON THE ELECTRICAL RESISTIVITY OF MOLYBDENUM SINGLE CRYSTALS 67-12 M15-82858

SINGLE CRYSTALS, ELECTRON DIFFRACTION
INELASTIC SCATTERING OF LOW ENERGY ELECTRONS FROM SURFACES 67-10 M16-79558

SINGLE CRYSTALS, FERMI SURFACE
DE-HAAS-VAN ALPHEN EFFECT IN FERROMAGNETIC NICKEL 67-01 M16-57554
POSITRON ANNIHILATION IN COPPER-ALUMINIUM ALLOY 67-04 M16-67483
INVESTIGATION OF THE FERMI SURFACE AND OF CARRIER VELOCITIES IN INDIUM BY THE CYCLOTRON RESONANCE METHOD 67-05 M16-69027

SINGLE CRYSTALS, GRAIN GROWTH
CRITICAL STRAIN AND THE GROWTH OF LARGE GRAINS OF THE PU-1 WT PER CENT GA ALLOY 67-03 M14-65861

SINGLE CRYSTALS, GROWTH
ON CRYSTAL GROWTH DISTANT FROM PHASE EQUILIBRIUM CONDITIONS 67-07 M13-73855

SINGLE CRYSTALS, HARDENING
SOME NOTES ON THE STRENGTHENING MECHANISM IN NEUTRON IRRADIATED COPPER SINGLE CRYSTALS 67-02 M17-61504
ON THE STRENGTHENING MECHANISM IN NEUTRON IRRADIATED COPPER SINGLE CRYSTALS. PT. 1. ON EXPERIMENTS CONCERNING STRAIN RATE CHANGES 67-02 M17-61505
ON THE STRENGTHENING MECHANISM IN NEUTRON IRRADIATED COPPER SINGLE CRYSTALS. PT. 2. ANALYSIS OF THE THERMALLY ACTIVATED PROCESSES 67-02 M17-61506
ELECTRON MICROSCOPIC SURFACE AND TRANSMISSION INVESTIGATIONS OF IRON SINGLE CRYSTALS AND THE INFLUENCE OF THE ORIENTATION ON THE WORK-HARDENING BEHAVIOR 67-03 M13-65218
WORK SOFTENING INDUCED YIELDING IN MAGNESIUM SINGLE CRYSTALS 67-06 M17-70792

SINGLE CRYSTALS, HEAT TREATMENT
ANNEALING OF SILICON-IRON SINGLE CRYSTALS 67-02 M14-60608
CONTINUUM PLASTICITY THEORY IN RELATION TO SOLID SOLUTION, DISPERSION AND PRECIPITATION HARDENING 67-06 M10-71715
STRENGTHENING OF SAPPHIRE BY PRECIPITATES CONTAINING TITANIUM 67-07 M10-72829
HEAT TREATMENT OF INSB CRYSTALS WITH DIFFERENT DISLOCATION DENSITIES 67-11 M15-80237

SINGLE CRYSTALS, IMPURITIES
IMPURITY DISTRIBUTION IN GALLIUM ARSENIDE SINGLE CRYSTALS GROWN BY CZOCHRALSKIS METHOD 67-01 M15-57652

SINGLE CRYSTALS, IRRADIATION
MEASUREMENT OF ABSORPTION OF FAST ELECTRONS IN SINGLE CRYSTAL FILMS OF ALUMINIUM 67-07 M16-73144

INFRARED ABSORPTION OF THE GAMMA-INDUCED SURFACE LAYER ON GERMANIUM 67-09 M16-77437
ELECTRON RADIATION DAMAGE IN CADMIUM-SELENIDE CRYSTALS AT LIQUID-HELIUM TEMPERATURE 67-10 M16-79419
STIMULATED EMISSION OF ELECTRON-BEAM-PUMPED ZINC TELLURIDE SINGLE CRYSTALS 67-10 M16-79462
SCATTERING OF 5-40 KEV PROTONS BY MOLYBDENUM SINGLE CRYSTALS 67-11 M16-81371
FISSION FRAGMENT DAMAGE TO METALLIC CRYSTALS. PT. 1. SINGLE CRYSTAL GOLD 67-12 M16-82544
FISSION FRAGMENT DAMAGE TO METALLIC CRYSTALS. PT. 2. ORDERED CU-AU ALLOY 67-12 M16-82545

SINGLE CRYSTALS, MACHINING
CLEAVAGE CRACKS INDUCED BY SPARK MACHINING 67-02 M08-61779
SPARK EROSION FABRICATION OF SINGLE CRYSTAL TUNGSTEN RIBBON FILAMENTS 67-04 M08-67402

SINGLE CRYSTALS, MAGNETIC PROPERTIES
ORDER-DISORDER TRANSFORMATION AND MAGNETIC PROPERTIES IN IRON-NICKEL ALLOYS 67-01 M14-58659
EFFECT OF CRYSTALLITE SIZE ON COERCIVE FORCE OF THIN FERROMAGNETIC FILMS 67-01 M15-57119
DOMAIN STRUCTURE OF HEXAGONAL FERRIMAGNETIC OXIDES WITH HIGH ANISOTROPY FIELD 67-01 M15-57120
FERROMAGNETIC CURIE TEMPERATURES OF SOME IRON-ZINC SOLID SOLUTIONS 67-01 M15-57564
COERCIVE FORCE OF PLASTICALLY DEFORMED SILICON IRON CRYSTALS 67-01 M15-58030
MAGNETORESISTANCE IN ELEMENTAL BORON 67-01 M15-58417
FERROMAGNETIC DOMAIN STRUCTURE OF IRON WHISKERS WITH --111-- AXES 67-01 M15-58654
MAGNETOCRYSTALLINE ANISOTROPY OF YCO5 AND Y2CO17 67-01 M15-58656
MAGNETIC PROPERTIES OF ORDERED PT-CO 67-01 M15-58658
INVESTIGATIONS OF THE DOMAIN STRUCTURE OF NICKEL SINGLE CRYSTALS 67-01 M15-58666
MAGNETIC PROPERTIES OF MNAL SYSTEM ALLOYS 67-01 M15-58670
THE MAGNETIZATION PROCESS IN NICKEL SINGLE CRYSTALS. PT. 1 67-01 M15-58779
EFFECT OF DEFORMATION-INDUCED CRYSTAL IMPERFECTIONS ON MAGNETOCRYSTALLINE ANISOTROPY OF NICKEL SINGLE CRYSTALS 67-02 M13-61831
SOME CHARACTERISTICS OF GALVANOMAGNETIC PROPERTIES OF BISMUTH 67-02 M15-59923
NUCLEAR MAGNETIC RESONANCE OF FE57 IN SINGLE-CRYSTAL HEMATITE 67-02 M15-60531
MAGNETIC SUSCEPTIBILITY OF CUPROUS OXIDE SINGLE CRYSTALS AT 25 C 67-02 M15-60588
MAGNETIC STRUCTURES OF HOLMIUM. PT. 1. THE VIRGIN STATE 67-02 M15-60761
EFFECT OF PLASTIC DEFORMATION AND LOW-TEMPERATURE ANNEALING ON THE MAGNETOSTRICTION AND COERCIVE FORCE OF SILICON-IRON SINGLE CRYSTALS 67-02 M15-60899
FERROMAGNETIC RESONANCE IN THIN SINGLE-CRYSTAL PLATELETS OF IRON 67-02 M15-61095
HYSTERESIS LOOPS ON BIAXIAL FERROMAGNETIC FILMS 67-02 M15-61161
MAGNETIC ANISOTROPY INDUCED IN THIN FILMS AT LOW TEMPERATURES 67-02 M15-61511
MAGNETIC PROPERTIES OF SINGLE-CRYSTAL LAYERS OF FE, NI, CO AND THEIR ALLOYS 67-02 M15-61514
THEORY OF COERCIVE FIELD STRENGTH OF HEXAGONAL COBALT SINGLE CRYSTALS 67-02 M15-61821
MAGNETIC ANALYSIS BY ELECTRON REFLECTION 67-02 M15-61899
MAGNETIC SUSCEPTIBILITIES OF CUBIC UO2 PLUS X AT HIGH TEMPERATURE 67-03 M15-65155
THE EFFECT OF OXYGEN STOICHIOMETRY ON THE MAGNETO-CRYSTALLINE ANISOTROPY OF MAGNETITE 67-03 M15-65162
TEMPERATURE AND DEFORMATION DEPENDENCE OF THE COERCIVE FIELD STRENGTH OF IRON SINGLE CRYSTALS. PT. 2 67-03 M15-65377
THE MAGNETIC STRUCTURE OF PLASTICALLY DEFORMED CHROMIUM 67-03 M15-65397
MAGNETIC HYSTERESIS OF HOLMIUM METAL AT 4.2 K 67-03 M15-65887
THE FORM OF LOCKING DOMAINS INSIDE SILICON IRON CRYSTALS 67-04 M15-67375
MAGNETIC RESONANCE EXPERIMENTS ON VO2 67-04 M16-66790
THE EFFECT OF DISLOCATIONS ON THE MAGNETIZATION CURVES OF FERROMAGNETIC CRYSTALS 67-05 M15-69453
DEFORMATION AND TEMPERATURE INFLUENCES ON MAGNETIC PROPERTIES OF NICKEL SINGLE CRYSTALS. PT. 1. DOMAIN WALL DISPLACEMENTS IN 110 AND 111 NICKEL SINGLE CRYSTALS 67-05 M15-69773
STUDY OF THE DOMAIN STRUCTURE OF NICKEL SINGLE CRYSTALS. PT. 2. MEASUREMENTS AND OBSERVATIONS ON PRISMATIC CRYSTALS WITH A --110-- AXIS 67-05 M15-69779
GALVANOMAGNETIC EFFECTS AND MAGNETIC SUSCEPTIBILITY OF TIN-DOPED BISMUTH CRYSTALS 67-05 M16-69752
GALVANOMAGNETIC PROPERTIES OF MOLYBDENUM CRYSTALS IN INTENSE EFFECTIVE FIELDS 67-06 M01-72033
CRYSTAL ANISOTROPY AND SATURATION MAGNETIZATION OF HARD FERRITES WITH A COMPOSITION NEAR THE M-COMPOUND PREPARED BY MEANS OF THE VERNEUIL METHOD 67-06 M05-70996
THE SHIFT OF THE FERROMAGNETIC CURIE TEMPERATURE IN EUS BY HYDROSTATIC PRESSURE 67-06 M15-70463
A NOVEL METHOD FOR THE MEASUREMENT OF CRYSTAL ANISOTROPY IN MAGNETIC FILMS 67-06 M15-70581
DEFORMATION AND TEMPERATURE DEPENDENCE OF THE MAGNETIZATION PROCESS IN NICKEL SINGLE CRYSTALS. PT. 2. BLOCH WALL DISPLACEMENTS AND ROTATIONS OF THE SPONTANEOUS MAGNETIZATION IN --001-- NICKEL SINGLE CRYSTALS 67-06 M15-70984
EASY MAGNETIZATION AXIS OF PERMALLOY AS REVEALED BY ELECTRON DIFFRACTION 67-06 M15-71047
THE EFFECT OF PRESSURE ON THE CURIE TEMPERATURE AND RESISTIVITY OF SOME RARE-EARTH METALS AND HEUSLER ALLOYS 67-06 M15-71282
THE DOMAIN STRUCTURE OF COBALT FERRITE 67-06 M15-71755
INFLUENCE OF THE ANOMALOUS SKIN EFFECT ON THE FERROMAGNETIC-RESONANCE LINEWIDTH IN IRON 67-06 M15-71796
THE CONSTANTS OF MAGNETOSTRICTION OF IRON CONTAINING 2.56 WT. PER CENT SILICON 67-06 M15-71862
INFLUENCE OF HEAT TREATMENT ON THE MAGNETIC-CRYSTALLOGRAPHIC ANISOTROPY AND ROTATION-HYSTERESIS LOSS IN LITHIUM PENTAFERRITE SINGLE CRYSTALS 67-06 M15-71920
SOME FEATURES OF THE GALVANOMAGNETIC PROPERTIES OF BISMUTH 67-07 M15-72578
THE MAGNETIZATION PROCESS IN NICKEL SINGLE CRYSTALS. PT. 2 67-07 M15-72888
VOLUME- AND TEMPERATURE DEPENDENCE OF THE ANISOTROPIC MAGNETOSTRICTION OF IRON, NICKEL AND SOME IRON-ALLOYS 67-07 M15-73303
SURFACE OF MAGNETIZATION, FIELD, AND TEMPERATURE FOR NICKEL NEAR ITS CURIE TEMPERATURE 67-07 M15-73501
DOMAIN CONFIGURATION AND LOSSES IN CUBE-TEXTURED SILICON IRON 67-07 M15-73521
THE SPECTRUM OF THE MAGNETIC AFTER-EFFECT IN NEUTRON-IRRADIATED NI SINGLE CRYSTALS 67-07 M15-73558
FORCED MAGNETOSTRICTION OF NICKEL, COBALT, AND IRON AT 4.2 K 67-07 M15-73561
MAGNETOSTRICTION OF NICKEL SINGLE CRYSTALS 67-07 M15-73563
MAGNETORESISTANCE OF NICKEL-COPPER SINGLE-CRYSTAL THIN FILMS 67-07 M15-73568
BASAL-PLANE ANISOTROPY OF GADOLINIUM 67-07 M15-73582
MAGNETOCRYSTALLINE ANISOTROPY OF TWO YTTRIUM-COBALT COMPOUNDS 67-07 M15-73583
MAGNETIC ANISOTROPY OF TERBIUM AND DYSPROSIUM 67-07 M15-73584
FERROMAGNETIC RESONANCE IN COBALT SINGLE CRYSTALS 67-07 M15-73702
NEUTRON DIFFRACTION STUDY OF FE7SE8 67-07 M15-73989
THE MAGNETIC SUSCEPTIBILITY OF P-TYPE CDSB 67-07 M16-73463
MAGNETORESISTANCE EFFECT AND ELECTRIC RESISTANCE OF SINGLE CRYSTALS OF COBALT 67-08 M15-74406
LONGITUDINAL MAGNETORESISTANCE EFFECT IN SINGLE CRYSTALS OF NICKEL-COPPER ALLOYS 67-08 M15-74427
CHANGE IN FORM OF DOMAIN STRUCTURE IN SINGLE CRYSTALS OF HIGH-COERCIVITY ALNICO ALLOY DURING MAGNETIC REVERSAL 67-08 M15-74635
THE ORIGIN AND FORMATION OF DOMAIN STRUCTURE IN MAGNETOUNIAXIAL FERROMAGNETICS. PT. 2 67-08 M15-75256

ENERGY OF MAGNETIC ANISOTROPY AND ITS RELATIONSHIP TO TEMPERATURE AND HEAT TREATMENT IN NI-CO ALLOY 67-08 M15-75257
CHANGE OF THE MAGNETIC ANISOTROPY CONSTANT K1 OF NICKEL UNDER HYDROSTATIC PRESSURE 67-08 M15-75821
MAGNETIC RESONANCE IN SINGLE-CRYSTAL TERBIUM METAL AT 100 GHZ 67-08 M15-75926
WEAK FERROMAGNETISM IN ANTIFERROMAGNETIC UO2 67-08 M15-75931
ANTIFERROMAGNETISM IN DILUTE CR-FE ALLOYS 67-08 M15-76172
THE MAGNETOCRYSTALLINE ANISOTROPY OF IRON SELENIDE FE7SE8 67-08 M15-76173
MAGNETOCRYSTALLINE ANISOTROPY OF SINGLE-CRYSTAL EUROPIUM OXIDE 67-08 M16-75932
DOMAIN-WALL MOTION IN BARIUM FERRITE SINGLE CRYSTALS 67-09 M15-77445
MEASUREMENTS OF MAGNETIZATION IN SUPERCONDUCTIVE MOLYBDENUM 67-09 M15-77687
MAGNETIC STRUCTURES OF HOLMIUM. PT. 2. THE MAGNETIZATION PROCESS 67-09 M15-77688
THE FREQUENCY DEPENDENCE OF DEMAGNETIZATION AND MAGNETIC LOSS IN SILICON IRON 67-10 M15-78567
X-RAY DIFFRACTION CONTRAST ON FERROMAGNETIC DOMAIN WALLS IN FE-SI SINGLE CRYSTALS 67-10 M15-79012
MEASURING THE MAGNETIC ANISOTROPY OF SINGLE CRYSTALS IN TRANSVERSE VOLTAGE FIELDS 67-10 M15-79016
PECULIARITIES OF THE MAGNETORESISTANCE IN BI IN HIGH TRANSVERSE AND LONGITUDINAL MAGNETIC FIELDS 67-10 M15-79022
TEMPERATURE DEPENDENCE OF MAGNETOCRYSTALLINE ANISOTROPY OF AN FE-AL ALLOY NEAR THE CONCENTRATION FE3AL 67-10 M15-79025
HIGH-FIELD GALVANOMAGNETIC PROPERTIES OF NIOBIUM AND TANTALUM 67-10 M15-79415
GALVANOMAGNETIC PROPERTIES OF MOLYBDENUM CRYSTALS IN STRONG EFFECTIVE FIELDS 67-10 M15-79539
THE VARIATION OF THE CURIE POINT OF A GD CRYSTAL WITH PRESSURE 67-10 M15-79684
DOMAIN STRUCTURE OF ALNICO ALLOY SINGLE CRYSTALS WHICH ARE IN DIFFERENT STRUCTURAL STATES 67-10 M15-79835
ON THE THEORY OF THERMOMAGNETIC TREATMENT OF HIGH COERCIVE ALLOYS OF THE TICONAL TYPE 67-10 M15-79838
ANISOTROPY OF THE HALL EFFECT IN DYSPROSIUM 67-11 M15-80786
MAGNETIC AND MAGNETOSTRICTION PROPERTIES OF AN ERBIUM SINGLE CRYSTAL IN THE PARAMAGNETIC REGION 67-11 M15-81370
NEGATIVE RESISTANCE AND INSTABILITIES OF BISMUTH CRYSTALS IN A MAGNETIC FIELD 67-11 M15-81473
PREPARATION AND MAGNETIC PROPERTIES OF COBALT DISULFIDE 67-11 M15-81684
APPROACH TO MAGNETIC SATURATION IN SINGLE CRYSTAL THULIUM AT 4.2 K AND 140 KG 67-12 M15-81850
MAGNETIC AFTER-EFFECT IN DEFORMED COBALT SINGLE CRYSTALS 67-12 M15-82010
INFLUENCE OF MAGNETOSTRICTION ON THE MAGNETIC DOMAIN STRUCTURE OF UNIAXIAL CRYSTALS, ESPECIALLY OF COBALT 67-12 M15-82012
MICROMAGNETIC THEORY FOR MAGNETIZATION OF SINGLE CRYSTALS 67-12 M15-82221
GUREVICH MAGNETOMORPHIC OSCILLATIONS IN SINGLE CRYSTALS OF ALUMINUM AT HELIUM TEMPERATURES 67-12 M15-82526
HIGH-FIELD MAGNETORESISTANCE OF ORDERED BETA BRASS 67-12 M15-82528

SINGLE CRYSTALS, MECHANICAL PROPERTIES
TEMPERATURE AND STRAIN-RATE DEPENDENCE OF THE FLOW STRESS OF AGMG SINGLE CRYSTALS 67-01 M17-57110
ELASTIC CONSTANTS OF CADMIUM FROM 300 TO 575 K 67-01 M17-57117
CLEAVAGE FRACTURE OF ALPHA-IRON SINGLE CRYSTALS IN COMBINED TENSION AND TORSION 67-01 M17-57406
PROPORTIONAL-LIMIT STRESS OF TUNGSTEN SINGLE CRYSTALS 67-01 M17-57430
THIRD ORDER ELASTIC CONSTANTS OF GALLIUM ARSENIDE 67-01 M17-57449
ON THE CRITICAL RESOLVED SHEAR STRESS OF SOLID SOLUTIONS CONTAINING COHERENT PRECIPITATES 67-01 M17-57573
INVESTIGATION OF THE ANISOTROPY OF MICROHARDNESS IN BE, TE, SB, INBI, IN2TE3 SINGLE CRYSTALS AND TE-SE SOLID SOLUTIONS 67-01 M17-58096
TO THE RELATION BETWEEN STRAIN RATE AND DEFORMATION RATE OF COPPER SINGLE CRYSTALS IN STAGE 3 67-01 M17-58633
EFFECTS OF ORIENTATION AND CARBON ON THE MECHANICAL PROPERTIES OF IRON SINGLE CRYSTALS 67-02 M17-58949
THE MICROSTRAIN BEHAVIOR OF BERYLLIUM SINGLE CRYSTALS 67-02 M17-58962
THE DEFORMATION PROPERTIES AND ELECTRON MICROSCOPY STUDIES OF THE INTERMETALLIC COMPOUND NIAL 67-02 M17-58963
WORK HARDENING CAUSED BY INTENSIVE ULTRASONIC TREATMENTS IN SINGLE CRYSTALS 67-02 M17-59911
SHARP YIELDING DUE TO WORK SOFTENING OF DYNAMICALLY PRESTRAINED SINGLE CRYSTALS OF MAGNESIUM 67-02 M17-60159
DEFORMATION OF ALUMINIUM SINGLE CRYSTALS AT HIGH STRAIN RATES 67-02 M17-60274
PLASTIC DEFORMATION OF TUNGSTEN SINGLE CRYSTALS AT LOW TEMPERATURES 67-02 M17-60632
FRACTURE OF TUNGSTEN SINGLE CRYSTALS AT LOW TEMPERATURES 67-02 M17-60633
QUENCH-HARDENING GRADIENTS NEAR VACANCY SINKS IN CRYSTALS OF ZONE REFINED LEAD 67-02 M17-60634
THE CYCLIC STRAIN BEHAVIOR OF CRYSTALS OF ALUMINUM-4 WT PER CENT COPPER. PT. 1. THE BAUSCHINGER EFFECT 67-02 M17-60637
THE CYCLIC STRAIN BEHAVIOR OF CRYSTALS OF ALUMINUM-4 WT PER CENT COPPER. PT. 2. LOW CYCLE FATIGUE 67-02 M17-60638
THE FRACTURE OF IRON-3 PER CENT SILICON SINGLE CRYSTALS CONTAINING STABLE MICROCRACKS 67-02 M17-60650
DIFFUSION CREEP IN POLYCRYSTALLINE SOLIDS 67-02 M17-60753
VELOCITY OF PROPAGATION OF CLEAVAGE CRACKS IN TUNGSTEN 67-02 M17-60907
ELASTIC MODULI OF THE LEAD-THALLIUM ALLOYS 67-02 M17-61078
THE EFFECT OF VACUUM ANNEALING ON THE STRAIN BEHAVIOUR OF CADMIUM SINGLE CRYSTALS 67-02 M17-61531
DEFORMATION MECHANISMS IN TITANIUM AT LOW TEMPERATURES 67-03 M17-65084
CREEP EXPERIMENTS ON HIGH-PURITY COPPER SINGLE CRYSTALS 67-03 M17-65226
COMPRESSION OF BERYLLIUM PARALLEL TO THE C-AXIS 67-03 M17-65267
INVESTIGATION OF PLASTIC DEFORMATION OF BERYLLIUM SINGLE CRYSTALS SUBJECTED TO COMPRESSION 67-03 M17-65458
ACOUSTIC RELAXATIONS IN ZIRCONIUM-NIOBIUM ALLOYS 67-03 M17-65871
PROPAGATION OF ELASTIC TWINS IN METALS 67-04 M13-67926
ALLOY HARDENING IN ALPHA CU-AL SINGLE CRYSTALS AT LOW TEMPERATURES 67-04 M14-66271
THE MECHANICAL DAMPING OF IRON FROM ROOM TEMPERATURE TO 400 C. AT 7 MEGACYCLES/SEC 67-04 M17-66051
ON THE RELAXATION STRENGTH OF THE SNOEK PEAK 67-04 M17-66533
COMMENT ON THE EFFECT OF CARBON ON THE STRAIN RATE SENSITIVITY OF IRON SINGLE CRYSTALS 67-04 M17-66545
REPLY TO COMMENT ON THE EFFECT OF CARBON ON THE STRAIN RATE SENSITIVITY OF IRON SINGLE CRYSTALS 67-04 M17-66546
DISLOCATION SUBSTRUCTURE AND EXTENSION OF FATIGUE LIFE IN METAL CRYSTALS 67-04 M17-66925
DYNAMIC PROPAGATION OF DEFORMATION TWINS IN IRON SINGLE CRYSTALS 67-04 M17-67475
A DEFORMATION TWIN KINKED AT AN ANGLE OF 120 DEGREES OBSERVED IN ALPHA-IRON 67-04 M17-67485
HARDNESS OF SINGLE BERYLLIUM CRYSTALS FROM ROOM TEMPERATURE TO 400 C 67-04 M17-67573
STRAIN-RATE DEPENDENCE OF THE FLOW STRESS FOR BASAL SLIP IN ZINC 67-04 M17-67582
HIGH-SPEED DEEP DRAWABILITY OF THE PURE ALUMINUM SINGLE CRYSTALS 67-04 M17-67584
TWINNING AND CLEAVAGE FRACTURE IN MOLYBDENUM SINGLE CRYSTALS 67-05 M17-68221
THE HIGH TEMPERATURE FLOW STRESS OF SINGLE CRYSTALS OF COPPER, SILVER AND GOLD. PT. 1 67-05 M17-68292

PLASTIC DEFORMATION OF THIN COPPER SINGLE CRYSTALS. PT. 1. THE SEPARATE ROLES OF EDGE AND SCREW DISLOCATIONS IN STAGE 1 OF WORK HARDENING 67-05 M17-68296
ON THE VALIDITY OF THE LAW OF CONSTANT NORMAL STRESS FOR THE TENSILE CLEAVAGE OF ZINC SINGLE CRYSTALS 67-05 M17-68299
MICROPLASTICITY OF URANIUM DIOXIDE AT ROOM TEMPERATURE 67-05 M17-68571
RELAXATION DAMPING MAXIMA IN PLASTICALLY DEFORMED MOLYBDENUM AND NIOBIUM SINGLE CRYSTALS 67-05 M17-68577
MECHANICAL PROPERTIES AND CLEAVAGE RUPTURE OF IRON SINGLE CRYSTALS AT 77 K 67-05 M17-69339
ELASTIC CONSTANTS OF SINGLE CRYSTAL CORUNDUM BELOW ROOM TEMPERATURE 67-05 M17-69573
A ZENER-DAMPING PEAK IN FE-4 WT PER CENT SI 67-05 M17-69770
TEMPERATURE AND STRAIN RATE DEPENDENCE OF THE FLOW STRESS IN MOLYBDENUM 67-05 M17-69787
STRESS RELAXATION IN CD SINGLE CRYSTALS 67-05 M17-69793
DISLOCATION MECHANISMS IN SINGLE CRYSTALS OF TANTALUM AND MOLYBDENUM AT LOW TEMPERATURES 67-06 M13-70411
THE DEFORMATION OF MGO SINGLE CRYSTALS DOPED WITH TITANIUM AND VANADIUM 67-06 M14-70632
EFFECT OF SOME FACTORS ON THE MAGNITUDE AND DISTRIBUTION OF INTERNAL RESIDUAL STRESSES DURING THE CRYSTALLIZATION OF GERMANIUM SINGLE CRYSTALS 67-06 M14-70743
ANOMALOUS TRANSMISSION IN STRAINED DUCTILE AND BRITTLE CRYSTALS BY THE DIVERGENT X-RAY BEAM METHOD 67-06 M14-71283
SINGLE CRYSTALLINE ELASTIC CONSTANTS OF LEAD-THALLIUM ALLOYS 67-06 M17-70423
INFLUENCE OF DOPING ON THE PLASTIC DEFORMATION OF GALLIUM ARSENIDE SINGLE CRYSTALS 67-06 M17-70514
ON STRAIN-HARDENING OF MAGNESIUM OXIDE 67-06 M17-70957
MECHANISM OF BASAL CREEP IN MG-12 AT. PER CENT LI FROM 500 TO 885 K 67-06 M17-71078
ULTRASONIC INVESTIGATION OF CU SINGLE CRYSTALS 67-06 M17-71176
AN EXPERIMENTAL STUDY OF THE DOUBLE SLIP DEFORMATION HYPOTHESIS FOR FACE-CENTERED CUBIC SINGLE CRYSTALS 67-06 M17-71276
DUCTILE AND BRITTLE CRYSTALS 67-06 M17-71285
EMBRITTLEMENT OF CADMIUM BY INDIUM IN MERCURY AT ROOM TEMPERATURE 67-06 M17-71290
THE MECHANICAL PROPERTIES OF ZINC SINGLE CRYSTALS AT HIGH STRAIN RATES 67-06 M17-71410
FATIGUE IN COPPER SINGLE CRYSTALS AND A NEW MODEL OF FATIGUE IN FACE-CENTERED CUBIC METALS 67-06 M17-71518
THE THEORETICAL STRENGTHS OF CRYSTALS AND THE TIP OF A CRACK 67-06 M17-71519
DEFORMATION PROPERTIES OF NIOBIUM SINGLE CRYSTALS 67-06 M17-71520
MECHANICAL PROPERTIES OF SOME TANTALUM ALLOYS 67-06 M17-71528
THE EFFECT OF ORIENTATION AND IMPURITIES ON THE MECHANICAL PROPERTIES OF MOLYBDENUM SINGLE CRYSTALS 67-06 M17-71529
PLASTIC ANISOTROPY OF TANTALUM, NIOBIUM, AND MOLYBDENUM 67-06 M17-71530
ORIENTATION DEPENDENCE OF YIELD IN BODY-CENTERED CUBIC METALS 67-06 M17-71531
PLASTICITY OF IRON SINGLE CRYSTALS 67-06 M17-71532
THE CONDITION FOR THE APPEARANCE OF NECKING UNDER TENSILE TESTS 67-06 M17-71543
THERMALLY ACTIVATED SHEAR STRESS IN CADMIUM SINGLE CRYSTALS 67-06 M17-71665
ON THE CALCULATION OF POLYCRYSTALLINE ELASTICITY CONSTANTS FROM SINGLE CRYSTAL DATA 67-06 M17-71669
THE MECHANISM OF PRISMATIC CREEP IN MG-12 AT. PER CENT LI 67-06 M17-71959
TEMPERATURE DEPENDENCE OF CRITICAL SHEAR STRESS IN ULTRAPURE LEAD SINGLE CRYSTALS TO 1.3 K 67-06 M17-72354
RECOVERY OF INTERNAL FRICTION IN MO SINGLE CRYSTALS 67-06 M17-72355
CHARACTERISTICS OF PLASTIC DEFORMATION OF AL SINGLE CRYSTALS IN THE 1.3 TO 4.2 K. TEMPERATURE RANGE 67-06 M17-72357
INTERNAL FRICTION OF PURE AL AND ZN SINGLE CRYSTALS DURING TORSION TESTS 67-07 M17-72521
TEMPERATURE DEPENDENCE OF THE ELASTIC CONSTANTS OF MOLYBDENUM 67-07 M17-72635
FORMATION OF FATIGUE STRIATIONS IN FCC METALS 67-07 M17-72660
A METHOD OF MEASURING THE HIGH TEMPERATURE MICROHARDNESS OF SEMICONDUCTORS 67-07 M17-72869
EFFECT OF INITIAL DISLOCATION DENSITY ON THE STRESS-STRAIN CURVE AND ON SURFACE INDICATION OF SLIP IN COPPER 67-07 M17-73059
THE LINEAR HARDENING OF CADMIUM 67-07 M17-73063
THE DEFORMATION ON NIOBIUM SINGLE CRYSTALS 67-07 M17-73064
THE MECHANISM OF WORK HARDENING IN FCC METALS 67-07 M17-73065
STAGE 2 WORK HARDENING IN CRYSTALS 67-07 M17-73066
LATENT HARDENING AND THE FLOW STRESS IN COPPER SINGLE CRYSTALS 67-07 M17-73067
THE PLASTIC DEFORMATION OF THIN COPPER SINGLE CRYSTALS. PT. 2. AN ELECTRON MICROSCOPE STUDY OF THE SURFACE STRUCTURE 67-07 M17-73070
ACCELERATED CREEP IN METAL SINGLE CRYSTALS CAUSED BY ELECTRIC CHARGING OF THEIR SURFACE 67-07 M17-73172
FRICTIONAL ANISOTROPY IN NONMETALLIC CRYSTALS 67-07 M17-73498
TEMPERATURE DEPENDENCE OF THE ELASTIC CONSTANTS OF RUBIDIUM 67-07 M17-73635
EFFECTS OF PURIFICATION, AGGLOMERATION AND HEAT TREATMENT ON THE PROPERTIES OF BERYLLIUM SINGLE CRYSTALS 67-07 M17-73737
EFFECTS OF HEAT TREATMENT ON THE FLOW STRESS 67-07 M17-73751
STRESS RELAXATION IN NEUTRON IRRADIATED COPPER SINGLE CRYSTALS 67-07 M17-73901
KINETICS OF SNOEK ORDERING AND COTTRELL ATMOSPHERE FORMATION IN FE-N SINGLE CRYSTALS 67-07 M17-73923
ELASTIC CONSTANTS OF MAGNESIUM-LITHIUM ALLOYS 67-07 M17-73933
PRODUCTION AND PROPERTIES OF MONOCRYSTALS OF HIGH-MELTING METALS AND ALLOYS 67-08 M14-75024
EXPERIMENTAL STUDIES ON FATIGUE MECHANISM IN PURE METALS AT ELEVATED TEMPERATURES 67-08 M17-74428
TENSILE DEFORMATION IN IRON SINGLE CRYSTAL PLATES OBSERVED BY THE DIVERGENT X-RAY METHOD 67-08 M17-74603
TWINNING STRESS IN PRESTRAINED IRON SINGLE CRYSTALS 67-08 M17-75052
DISLOCATION DAMPING IN ALUMINUM AT HIGH STRAIN RATES 67-08 M17-75127
RESEARCH INTO THE STRUCTURE AND PROPERTIES OF MOLYBDENUM-NIOBIUM SYSTEM ALLOYS IN THE MONOCRYSTALLINE STATE 67-08 M17-75447
THE DETERMINATION OF THE ACTIVATION VOLUME DURING CHANGE OF THE CREEP RATE, PARTICULARLY IN AG SINGLE CRYSTALS 67-08 M17-75783
EXPERIMENTS ON THE DEFORMATION OF NIOBIUM SINGLE CRYSTALS. PT. 1. STRESS VERSUS STRAIN CURVES AND SLIP SYSTEMS IN COMPRESSION AND TENSION 67-09 M17-76585
THE JOINT EFFECTS OF RADIATION AND BOUNDARY-ACTIVE COATING ON THE MECHANICAL PROPERTIES OF SINGLE CRYSTALS OF METALS 67-09 M17-76720
THE THERMAL EXPANSION AND THE TEMPERATURE CHANGE OF YOUNGS MODULUS OF SINGLE CRYSTALS OF HEXAGONAL COBALT 67-09 M17-77251
INVESTIGATION OF THE PLASTIC SHOCK WAVE DEFORMATION IN AUSTENITIC SINGLE CRYSTALS 67-09 M17-77348
THE ELASTIC ANISOTROPY OF CRYSTALS 67-09 M17-77425
YIELD-POINT DEPENDENCE UPON GLIDE-SYSTEM ORIENTATION 67-09 M17-77452
MECHANICAL PROPERTIES AND CLEAVAGE FRACTURE OF IRON SINGLE CRYSTALS AT 77 K 67-09 M17-77597
ORIENTATION DEPENDENCE OF YIELD STRESS IN 4.4 PER CENT SILICON IRON SINGLE CRYSTALS 67-09 M17-77929
ELASTIC ANISOTROPIES AND TEMPERATURE CHANGE OF SINGLE CRYSTALS OF HIGH ELASTICITY ALLOY DIA-FLEX IN THE CO-FE-NI-CR-W-MO SYSTEM 67-09 M17-77996
DEFORMATION OF ZINC SINGLE CRYSTALS AT HIGH STRAIN RATES 67-09 M17-78229

THE EFFECT OF TEMPERATURE ON THE HARDNESS ANISOTROPY OF BERYLLIUM SINGLE CRYSTALS 67-09 M17-78259
THE EFFECT OF OXIDE FILMS ON DISLOCATION-SURFACE INTERACTIONS IN ALUMINUM 67-10 M13-79553
EFFECT OF DEFORMATION ON ULTRASONIC DAMPING IN MOLYBDENUM AND NIOBIUM SINGLE CRYSTALS 67-10 M15-79909
PLASTIC DEFORMATION OF HEXAGONAL COBALT SINGLE CRYSTALS 67-10 M17-78694
THE PROPERTIES OF THE LOW-TEMPERATURE INTERNAL FRICTION PEAK IN SILICON 67-10 M17-79023
STRAIN HARDENING CRYSTALLINE SOLIDS BY PROGRAMMED LOADING 67-10 M17-79209
MECHANICAL PROPERTIES OF NI-CR-TI-AL ALLOY --NIMONIC TYPE-- SINGLE CRYSTALS IN VARIOUS ALLOY STRUCTURAL STATES 67-10 M17-79230
TWINNING IN ZINC BY INDENTATION 67-11 M13-80128
PLASTIC DEFORMATION OF TANTALUM SINGLE CRYSTALS. PT. 1. THE SURFACE MORPHOLOGY OF YIELD 67-11 M17-80312
THE STRESS RELATIONSHIP IN STAGE B OF THE WORK HARDENING CURVE OF CD SINGLE CRYSTALS 67-11 M17-80368
CREEP APPARATUS FOR MEASUREMENTS AT LOW TEMPERATURES 67-11 M17-80383
CREEP TESTS ON MELT AND RECRYSTALLIZATION SINGLE CRYSTALS OF ZN 67-11 M17-81028
YIELD BEHAVIOR OF DISLOCATION-FREE GERMANIUM FROM 500 C. TO THE VICINITY OF THE MELTING POINT 67-11. M17-81084
FREQUENCY DEPENDENCE OF DISLOCATION DAMPING IN SINGLE-CRYSTAL COPPER 67-11 M17-81093
FATIGUE HARDENING OF COPPER SINGLE CRYSTALS AT LOW STRESS AMPLITUDES 67-11 M17-81261
FRACTURE OF GERMANIUM AT ROOM TEMPERATURE 67-11 M17-81264
DISLOCATION DENSITIES IN TUNGSTEN 67-11 M17-81271
TENSILE AND CREEP PROPERTIES OF SINGLE CRYSTALS OF THE NICKEL-BASE SUPERALLOY MAR-M200 67-11 M17-81344
COMPOSITION AND PRESSURE DEPENDENCE OF THE ELASTIC CONSTANTS OF GOLD-NICKEL ALLOYS 67-11 M17-81389
DISLOCATION MOBILITY IN COPPER 67-12 M13-82368
THE IMPORTANCE OF TWINNING FOR THE DUCTILITY OF CPH POLYCRYSTALS 67-12 M13-82739
PRESSURE DEPENDENCE OF HIGH-TEMPERATURE CREEP IN SINGLE CRYSTALS OF INDIUM 67-12 M14-82375
MECHANICAL PROPERTIES AND CLEAVAGE FRACTURE OF IRON SINGLE CRYSTALS AT 77 K 67-12 M17-81746
MEASURING THE HIGH-TEMPERATURE MICROHARDNESS OF SEMICONDUCTORS 67-12 M17-82177
THE ELASTIC CONSTANTS OF MERCURY TELLURIDE 67-12 M17-82288
DISLOCATION PINNING AND TEMPERATURE DEPENDENCE OF INTERNAL FRICTION 67-12 M17-82367
COMPARISON OF FATIGUE PROPERTIES OF SINGLE CRYSTALS AND POLYCRYSTALS 67-12 M17-82542
DEFORMATION OF SILVER-ZINC SINGLE CRYSTALS AS A FUNCTION OF ZINC CONCENTRATION 67-12 M17-82716
THE MECHANISM OF STAGE 1 CRACK PROPAGATION IN FATIGUE 67-12 M17-82725
PLASTIC DEFORMATION OF SINGLE-CRYSTAL NIAL 67-12 M17-82755
PLASTICITY OF MAGNESIUM CRYSTALS 67-12 M17-82763
THE STRESS DEPENDENCE OF DISLOCATION VELOCITY IN THE MICROSTRAIN REGION 67-12 M17-82877
SOME EFFECTS OF PROTON, ELECTRON, AND NEUTRON IRRADIATION ON THE FATIGUE PROPERTIES OF COPPER SINGLE CRYSTALS 67-12 M17-82971
STATISTICS FOR THE DISTRIBUTION OF PLASTIC DEFORMATION IN A MONOCRYSTAL OF ALUMINUM 67-12 M17-83302

SINGLE CRYSTALS, MECHANICAL PROPERTIES
CONTRIBUTION TO THE STUDY OF ELASTOPLASTIC CONTRIBUTION TO THE STUDY OF ELASTOPLASTIC BEHAVIOR OF MONOCRYSTALLINES. PT. 1 BEHAVIOR OF MONOCRYSTALLINES. PT. 1 67-12 M17-83577

SINGLE CRYSTALS, MECHANICAL TESTS
ON A METHOD OF TENSILE TESTING OF TUNGSTEN AND MOLYBDENUM SINGLE CRYSTALS 67-05 M17-69634

SINGLE CRYSTALS, MELTING
PROBLEM OF ALLOYING SINGLE CRYSTALS WITH A SOLID ADDITIVE IN THE NONCRUCIBLE ZONE IN A VACUUM 67-05 M03-69251

SINGLE CRYSTALS, METAL WORKING
FORMATION OF COLD ROLLED TEXTURE AND RECRYSTALLIZED TEXTURE IN SINGLE CRYSTALS OF 3 PER CENT SILICON IRON. PT. 1. 67-08 M13-75154
RECOVERY OF DEFORMED NIOBIUM AND TANTALUM DEGASSED IN ULTRA-HIGH VACUUM 67-11 M14-80632

SINGLE CRYSTALS, METALLOGRAPHY
THE DIRECT OBSERVATION OF ETCH-PITS AT DISLOCATIONS IN MOLYBDENUM 67-01 M13-57482
METHODS OF EXPOSING HETEROGENEITIES IN SILICON SINGLE CRYSTALS 67-01 M13-57648
BEHAVIOR OF MONOCRYSTALLINE AND POLYCRYSTALLINE NICKEL IN FUSED SALTS. METALLOGRAPHIC APPLICATION OF FUSED SALTS 67-01 M13-58305
TECHNIQUE FOR OBTAINING POWDER PATTERNS FROM SINGLE CRYSTAL SPHERES 67-02 M13-58902
ETCH PITTING ON DISLOCATIONS IN COPPER SINGLE CRYSTALS BY POTENTIOSTATIC ELECTROLYSIS 67-02 M13-60117
SOME CRYSTALLOGRAPHICAL APPLICATIONS OF THE GONIOMICROSCOPE 67-02 M13-60264
LOW-ENERGY ELECTRON DIFFRACTION OF SPHERICAL COPPER SINGLE CRYSTALS 67-05 M13-68338
DEFORMATION OF COPPER CRYSTALS DURING CUTTING BY STANDARD METHODS 67-06 M13-71621
METALLOGRAPHY OF SILICON SINGLE CRYSTALS 67-08 M13-74941
ETCH PITS IN HEXAGONAL SELENIUM CRYSTALS 67-12 M13-82379
CHEMICAL ETCHANTS FOR DISLOCATIONS IN ALPHA BRASS 67-12 M13-82983

SINGLE CRYSTALS, MICROSTRUCTURE
TRANSMISSION ELECTRON-MICROSCOPIC STUDIES ON MECHANISMS FOR DIPOLE FORMATION IN MGO 67-01 M13-57487
DISLOCATION ARRANGEMENTS IN TANTALUM SINGLE CRYSTALS DEFORMED IN TENSION AT 373 K 67-02 M13-58960
THE STRUCTURE OF PERFECT DENDRITIC GERMANIUM CRYSTALS 67-02 M13-61097
MICROSTRUCTURES OF CADMIUM-ZINC EUTECTIC ALLOY 67-02 M13-61591
GRAIN-BOUNDARY SLIDING IN METALS 67-02 M13-61780
DIFFRACTOMETRIC STUDY OF THE RECRYSTALLIZATION OF TIN UNDER THE EFFECT OF LIQUID GALLIUM 67-02 M14-59659
EFFECT OF CRYSTALLIZATION CONDITIONS ON THE MOSAIC MACRO- AND MICROSTRUCTURE IN METALLIC CRYSTALLITES PREPARED FROM A MELT 67-02 M14-59865
THE MICROSTRUCTURE OF TENSILE KINKS IN CADMIUM CRYSTALS 67-03 M13-65213
GRAIN BOUNDARY MIGRATION AND THE FORMATION OF RECRYSTALLIZATION TEXTURES IN METAL SINGLE- AND POLYCRYSTALS 67-03 M14-65546
INFLUENCE OF THE ORIENTATION ON THE RECRYSTALLIZATION OF IRON SINGLE CRYSTALS DEFORMED BY UNIDIRECTIONAL ROLLING 67-03 M14-65558
STUDY OF PURE ALUMINUM SINGLE AND BICRYSTALS RECRYSTALLIZATION 67-03 M14-65559
EXAMINATION OF POLYGONIZATION SUBSTRUCTURES BY X-RAY MICROSCOPY 67-04 M13-66310
VARIATION IN SURFACE ENERGY AS A FUNCTION OF THE CRYSTALLOGRAPHIC ORIENTATION IN SILICON IRON SINGLE CRYSTALS 67-04 M16-67656
EFFECT OF CYCLIC HEATING AND COOLING ON FRAGMENTED STRUCTURE OF ALUMINUM AND CADMIUM SINGLE CRYSTALS 67-05 M13-69665
THE SHOCK LOADING OF AUSTENITIC SINGLE CRYSTALS 67-05 M13-69746
EFFECT OF THE CADMIUM IMPURITY CONCENTRATION ON THE SUBSTRUCTURE OF ZINC SINGLE CRYSTALS 67-06 M13-70193
METALLOGRAPHIC INVESTIGATIONS ON WC SINGLE CRYSTALS 67-06 M13-70246
A METHOD FOR PRODUCING ELECTRON MICROGRAPHS OF SLIP STEPS ON CYLINDRICAL METAL SINGLE CRYSTALS 67-06 M13-70247
STRESS-INDUCED MOVEMENT OF TWIN BOUNDARIES IN ZINC 67-06 M14-72225
STRUCTURE AND PROPERTIES OF FE-CO-NI-AL-CU ALLOYS IN HIGH-COERCIVITY STATE 67-08 M15-74627
A STUDY OF THE GASEOUS ETCHING OF GERMANIUM BY OXYGEN 67-09 M13-76482
DISLOCATION DISTRIBUTIONS DURING STAGE I

SINGLE CRYSTALS
DEFORMATION OF SILVER SINGLE CRYSTALS 67-09 M13-76587
ELECTROCHEMICAL POLISHING OF GERMANIUM 67-09 M13-77094
ELECTROPOLISHING OF BISMUTH IN A SATURATED SOLUTION OF SODIUM CHLORIDE 67-09 M13-77095
EFFECT OF CRYSTALLOGRAPHIC ORIENTATION ON ETCHING PROPERTIES OF METAL SINGLE CRYSTALS-- COPPER 67-09 M13-78268
THE MICROSTRUCTURE OF SINGLE-CRYSTAL TITANIUM CARBIDE 67-10 M13-78666
DISLOCATION MOVEMENT IN ZINC SINGLE CRYSTALS AT HIGH TEMPERATURE 67-10 M13-79232
A SOURCE OF DISLOCATIONS IN COPPER CRYSTALS 67-11 M13-80620
THE DEVELOPMENT OF SLIP BAND STEPS ON THE SURFACE OF ZINC SINGLE CRYSTALS 67-11 M13-80735
FORMATION OF COLD ROLLED TEXTURE AND RECRYSTALLIZED TEXTURE IN SINGLE CRYSTALS OF 3 PER CENT SILICON IRON. PT. 2. RECRYSTALLIZED TEXTURE 67-11 M13-80797
DISLOCATION SUBSTRUCTURE IN SINGLE CRYSTALS OF HEXAGONAL AG-AL ORIENTED FOR PRISMATIC SLIP 67-11 M13-81266
BASAL DISLOCATION MOBILITY IN ZINC SINGLE CRYSTALS 67-11 M13-81540
STABILITY OF THE --110-- --112-- ORIENTATION IN SILVER DEFORMED BY PLANE STRAIN COMPRESSION 67-11 M13-81541
HIGH-ANGLE SUBSTRUCTURE IN ELECTRON BEAM ZONE-MELTED TUNGSTEN 67-11 M14-81356
DISLOCATION AND DEFORMATION MODES IN CHROMIUM SINGLE CRYSTALS 67-12 M13-82564
THE PLASTIC DEFORMATION OF SINGLE CRYSTALS OF VANADIUM AT 298 AND 77 K 67-12 M13-82717
SELECTIVE GROWTH IN THE RECRYSTALLIZATION OF A ZONE-REFINED ALUMINUM SINGLE CRYSTAL 67-12 M14-82737

SINGLE CRYSTALS, NUCLEAR PROPERTIES
THE OBSERVATION OF OPEN ORBITS IN MERCURY BY A TORQUE METHOD 67-08 M15-75820
ANISOTROPIC SHIFT IN THE NUCLEAR MAGNETIC RESONANCE LINE IN TELLURIUM SINGLE CRYSTALS 67-11 M16-81682

SINGLE CRYSTALS, OPTICAL PROPERTIES
THE OPTICAL AND ELECTRICAL CONSTANTS OF BETA-RHOMBOHEDRAL BORON AND APPLICATIONS, 1965, P 133-141 67-01 M15-58413
ANOMALOUS POLARITY-DEPENDENT ELECTRO-OPTIC EFFECT IN CUBIC ZNS AND ZNTE 67-02 M15-60686
FAR INFRARED LATTICE BANDS IN INDIUM ANTIMONIDE 67-04 M16-66743
OPTICAL PROPERTIES AND ENERGY BAND STRUCTURE OF ZNS-CDS SINGLE CRYSTALS 67-04 M16-66748
OPTICAL ABSORPTION, PHOTOCONDUCTIVITY, SPONTANEOUS AND STIMULATED LIGHT EMISSION INVOLVING EXCITON STATES IN CDTE 67-04 M16-66749
OPTICAL PROPERTIES OF ZINC TELLURIDE 67-08 M15-74668
ANISOTROPY IN LATTICE VIBRATIONS OF ZINC OXIDE 67-09 M15-77458
THERMOLUMINESCENCE AND COLOR CENTERS IN LIF 67-09 M16-77438
REFLECTIVITY MEASUREMENTS ON TRIGONAL SELENIUM SINGLE CRYSTALS IN THE SPECTRAL REGION BETWEEN 1.6 AND 6.0 EV 67-11 M15-80235
SOME NEW FEATURES OF THE REFLECTANCE SPECTRUM OF TRIGONAL SELENIUM SINGLE CRYSTALS 67-11 M15-80236
OPTICAL PROPERTIES AND BAND STRUCTUR OF TRIGONAL SELENIUM 67-11 M15-81387
KINETICS OF OPTICAL CHARGE EXCHANGE IN COPPER-DOPED CADMIUM SULPHIDE SINGLE CRYSTALS 67-11 M15-81687

SINGLE CRYSTALS, ORIENTATION
A RAPID GRAPHICAL SINGLE-SURFACE ORIENTATION TECHNIQUE FOR FACE-CENTERED METALS 67-01 M13-57411

SINGLE CRYSTALS, OXIDATION
THE EPITAXIAL RELATIONSHIPS OF NUCLEI OF FE2SIO4, FORMED AT THE SITES ON IRON 67-02 M14-62251
THE EFFECTS OF CRYSTALLOGRAPHIC ORIENTATION AND OXYGEN PRESSURE ON THE OXIDATION OF IRON 67-03 M14-65422
STRUCTURE AND MECHANISM OF FORMATION OF OXIDE FILMS ON FE SINGLE CRYSTALS BY NANO2 67-05 M18-69840
EFFECT OF TEMPERATURE AND OXYGEN PARTIAL PRESSURE PRESSURE ON THE OXIDATION OF TITANIUM CARBIDE 67-08 M18-76092
EFFECT OF HEATING SINGLE CRYSTAL COPPER IN H2 AND N2 ON THIN-FILM OXIDATION KINETICS 67-09 M18-77886

SINGLE CRYSTALS, PHASE TRANSFORMATIONS
EFFECT OF NASCENT PHASE ON THE KINETICS OF THE MARTENSITE TRANSFORMATION 67-01 M14-57101
PHASE AND ORDER TRANSITIONS DURING AND AFTER FILM DEPOSITION 67-01 M14-57121
THE PHASE CHANGE OF ZINC SULPHIDE AND THE STACKING SEQUENCE OF A NEW 66R POLYTYPE 67-01 M14-57479
THE MARTENSITE TRANSFORMATION IN SMALL --0.1-0.3 MM-- IRON-NICKEL SINGLE CRYSTALS 67-04 M14-66054
IDENTIFICATION AND GROWTH TOPOLOGY OF CRYSTALS DEPOSITED IN AN AL-CU-AG ALLOY 67-05 M14-68594
DECOMPOSITION OF A GERMANIUM SOLID SOLUTION TO ALUMINUM IN AN ALUMINUM ALLOY WITH 4 PER CENT GE 67-10 M14-79913

SINGLE CRYSTALS, PHASES /STATE OF MATTER/
THE EXISTENCE OF THE METASTABLE ALPHA-PRIME PHASE AT THE FIRST STAGES OF DECOMPOSITION OF AL-ZN ALLOY 67-06 M14-72366
P-T-X PHASE DIAGRAM OF THE LEAD TELLURIDE SYSTEM 67-06 M15-72046
PREPARATION AND PROPERTIES OF RARE-EARTH SILICATES AND ALUMINATES 67-08 M14-75999
THE SYSTEM GE-SE-TE AND THE PREPARATION AND PROPERTIES OF THE NEW NON-STOICHIOMETRIC COMPOUND GESE0.75TE0.25 67-09 M14-77015

SINGLE CRYSTALS, PHOTOCONDUCTIVITY
SLOW PHOTOCONDUCTIVITY RELAXATION IN OXYGEN-DOPED N-GERMANIUM 67-08 M16-75131

SINGLE CRYSTALS, PHYSICAL PROPERTIES
ANISOTROPY OF DISSOLUTION OF SI CRYSTALS IN AN AL MELT 67-04 M14-67058
INTERNAL FRICTION AND YOUNGS MODULUS IN ANTIMONY AND BISMUTH 67-04 M15-67830
INTERNAL FRICTION IN BORON 67-04 M15-67831
ADSORPTION OF NITROGEN ON THE --113-- PLANE OF TUNGSTEN SINGLE CRYSTALS 67-05 M15-68574
MAGNETIC ULTRASONIC ATTENUATION IN NICKEL AND COBALT 67-05 M15-69716
DENSITY CHANGES DUE TO DISLOCATIONS IN SILICON SINGLE CRYSTALS 67-06 M15-70997
REFLECTANCE AND SURFACE CONDUCTIVITY OF ZINC OXIDE CRYSTALS 67-06 M16-70087
GIANT QUANTUM OSCILLATIONS OF THE ABSORPTION COEFFICIENT OF ULTRASOUND IN ANTIMONY 67-06 M16-71766
INFLUENCE OF DIRECTED DEFORMATION ON THE INTRINSIC-ABSORPTION EDGE OF SINGLE CRYSTALS OF TRIGONAL SELENIUM 67-06 M16-71927
THE INFLUENCE OF THE OXYGEN ADSORPTION ON THE SURFACE ENERGY OF FCC NICKEL AND BCC SILICON IRON 67-07 M15-73927
INFLUENCE OF DEFECTS AND OF THE INTERACTION BETWEEN THEM ON PHONON SCATTERING IN HEAVILY DOPED GE AND SI CRYSTALS 67-10 M15-79013
EXPERIMENTAL INVESTIGATION OF THE FREQUENCY DEPENDENCE OF ELECTRON ABSORPTION OF ULTRASOUND IN TIN SINGLE CRYSTALS OF VARIOUS CRYSTALLOGRAPHIC ORIENTATIONS 67-11 M15-80784
THE CHEMICAL BOND IN BISMUTH TELLURIDE 67-11 M16-80175
INVESTIGATION OF THE COEFFICIENT OF ABSORPTION OF SOUND IN BISMUTH. PT. 2. GIANT OSCILLATIONS 67-11 M16-80782
TRANSIENT SOFTENING DURING AGING OF SOME ALUMINUM-BASED SOLID SOLUTIONS 67-12 M10-82977
CALORIMETRIC EVIDENCE FOR THE ABSENCE OF A MAGNETIC PHASE TRANSITION IN GALLIUM NEAR 1.7 K 67-12 M15-82199

SINGLE CRYSTALS, POWDER METALLURGY
FABRICATION OF BICRYSTALS OF ALUMINIUM OXIDE 67-10 M09-79603
PREPARATION OF ZNSEXTE1-X CRYSTALS BY VAPOR TRANSPORT 67-12 M14-82676

SINGLE CRYSTALS, REACTIONS /CHEMICAL/
INTERACTION OF BORON WITH TUNGSTEN SINGLE CRYSTAL SUBSTRATES 67-02 M14-61572
OXIDATION OF COPPER SINGLE CRYSTALS IN AQUEOUS SOLUTIONS OF INORGANIC SALTS. PT. 4. EFFECT OF PH ON OXIDE TOPOGRAPHY IN CUSO4 AND CU--OAC--2

SOLUTIONS 67-02 M14-61762
REACTION OF ALUMINA WITH CESIUM VAPOR 67-04 M18-66138
GERMANIUM OXIDATION IN NITRIC ACID 67-05 M14-68625
LOW-TEMPERATURE PHOTO-CHEMICAL REACTIONS IN IN4S5 SINGLE CRYSTALS 67-06 M14-71756
THE HIGH-TEMPERATURE OXIDATION OF TANTALUM SINGLE CRYSTALS 67-07 M18-73405
ON THE DECOMPOSITION OF CRO2 IN AIR 67-08 M14-76000
ETCHING OF GERMANIUM WITH IODIDE VAPOR IN AN ELECTRIC FIELD 67-09 M14-76769

SINGLE CRYSTALS, RECRYSTALLIZATION /METALLURGICAL/
NUCLEATION DURING RECRYSTALLIZATION 67-05 M14-69726

SINGLE CRYSTALS, REFINING
FLOATING-ZONE REFINING BY ELECTRON BOMBARDMENT 67-01 M14-57982
HIGH-PURITY SILICON 67-09 M03-78295
ZONE MELTING OF LEAD TELLURIDE 67-09 M14-76849
ASSEMBLY FOR ZONE REFINING OF REFRACTORY METALS 67-11 M03-81324
ZONE REFINING OF MOLYBDENUM 67-12 M03-82112

SINGLE CRYSTALS, RODS
INTERNAL FRICTION PEAKS IN DEUTERON-IRRADIATED TUNGSTEN 67-04 M17-66056

SINGLE CRYSTALS, ROLLING
ROLLING AND RECRYSTALLIZATION TEXTURES OF SILICON IRON CRYSTALS WITH --110-- --001-- ORIENTATIONS 67-09 M13-78216

SINGLE CRYSTALS, SEMICONDUCTORS
POLYGONIZATION IN SILICON MONOCRYSTAL 67-10 M13-80026
THE THERMOELECTRIC EFFICIENCY OF CDSB AND SOLID SOLUTIONS OF ZNXCB1-XSB WITH HOLE CONDUCTIVITY 67-10 M15-79107

SINGLE CRYSTALS, SUBSTRATES
EFFECTS OF ADDITION AGENTS IN THE ELECTRODEPOSITION OF NICKEL ON COPPER SINGLE CRYSTAL --100-- SUBSTRATE 67-05 M12-69002

SINGLE CRYSTALS, SUPERCONDUCTIVITY
EFFECT OF STRUCTURE ON THE SUPERCONDUCTING PROPERTIES OF EUTECTIC ALLOYS 67-01 M16-57105
AMPLITUDE-DEPENDENT ULTRASONIC ATTENUATION IN NORMAL AND SUPERCONDUCTING LEAD 67-01 M16-57591
THE GINZBURG-LANDAU PARAMETER --KO-- FOR VANADIUM 67-01 M16-57964
AMPLITUDE-DEPENDENT ULTRASONIC ATTENUATION IN SUPERCONDUCTORS 67-02 M16-60528
ULTRASONIC STUDIES OF THE SUPERCONDUCTIVITY OF DOPED TIN 67-02 M16-60530
EFFECT OF SPECIMEN THICKNESS ON THE SUPERCONDUCTING BEHAVIOR OF NIOBIUM SINGLE CRYSTALS IN TORSION 67-03 M16-65224
SUPERCONDUCTING TRANSITION TEMPERATURE AND RESISTIVITY OF TIN WHISKERS AS A FUNCTION OF UNIAXIAL TENSION 67-03 M16-65748
ANISOTROPIC ENERGY GAP IN SUPERCONDUCTING WHITE TIN.. SEMIEMPIRICAL APPROACH 67-04 M16-68139
LATTICE INSTABILITY OF HIGH-TRANSITION-TEMPERATURE SUPERCONDUCTORS. PT. 2. SINGLE-CRYSTAL V3SI RESULTS 67-05 M16-69517
HIGH-FREQUENCY EFFECTS IN THE ACOUSTIC ATTENTUATION OF SUPERCONDUCTING ALUMINUM 67-08 M16-74399

SINGLE CRYSTALS, SURFACE FINISHING
NEW POLISHING MATERIALS FOR PROCESSING OF SINGLE CRYSTALS 67-06 M12-72324
ANODIC DISSOLUTION OF SILVER SINGLE CRYSTAL FACES --111--, --100-- AND --110-- AND POLYCRYSTALLINE SILVER IN ARGENTOCYANIDE BATH 67-09 M12-78275

SINGLE CRYSTALS, SURFACE PROPERTIES
DISLOCATION STRUCTURES IN CLEAVED MAGNESIUM OXIDE 67-01 M13-57123
DETERMINATION OF ANISOTROPY AND SURFACE ENERGY OF THE FACE CENTERED CUBIC METALS NICKEL, GOLD AND SILVER 67-02 M15-59908
DETERMINING THE SURFACE ENERGY OF SILICON IRON BY THE NEUTRAL DROP METHOD 67-02 M15-60070
INVESTIGATION OF THE ADSORPTION OF LITHIUM ON THE SURFACE OF A TUNGSTEN SINGLE CRYSTAL IN A FIELD-EMISSION PROJECTOR 67-03 M14-65630
THE SURFACE ENERGY OF IRON-3 PER CENT SILICON BY SURFACE-RELAXATION MEASUREMENTS 67-05 M14-68691
CESIUM ADSORPTION ON THE FACES OF A TUNGSTEN SINGLE CRYSTAL 67-06 M14-70512
MECHANISM OF THE SORPTION OF OXYGEN ON THE --100-- FACE OF A TUNGSTEN SINGLE CRYSTAL 67-06 M15-70870
INVESTIGATION OF ADSORPTION OF CESIUM ON A TUNGSTEN SINGLE CRYSTAL 67-06 M16-71911
SORPTION OF INERT GAS IONS BY TITANIUM 67-08 M14-75045
THE SURFACE ENERGY OF IRON-3 PER CENT SILICON BY SURFACE-RELAXATION MEASUREMENTS 67-08 M14-76206

SINGLE CRYSTALS, THERMAL PROPERTIES
ANOMALOUS THERMAL CONDUCTIVITY OF CD3AS2 AND THE CD3AS2-ZN3AS2 ALLOYS 67-01 M15-57118
LOW-TEMPERATURE THERMAL CONDUCTIVITY OF BORON 67-01 M15-58421
ON HEAT CONDUCTIVITY AND THERMOELECTROMOTIVE FORCE OF HEXAGONAL SELENIUM SINGLE CRYSTALS 67-01 M16-58642
DIFFUSED SEMICONDUCTOR LOW TEMPERATURE THERMOMETERS 67-01 M19-57225
LATTICE THERMAL CONDUCTIVITY OF ANTIMONY DOWN TO 0.4 K 67-02 M15-60256
HEAT CONDUCTIVITY STUDY OF GASE MONOCRYSTALS 67-03 M15-65230
THERMAL CONDUCTION IN BISMUTH AT LIQUID HELIUM TEMPERATURES 67-05 M15-69095
THERMAL CONDUCTIVITY AND FAR-INFRARED ABSORPTION OF UO2 67-07 M15-73604
LOW TEMPERATURE LIQUID-VAPOR DEFORMATION CALORIMETER 67-08 M15-76155
ON THE THERMAL CONDUCTIVITY OF CDTE AND SOME CDTE1 MINUS X SX AND CDTE1 MINUS X SEX SOLID SOLUTIONS 67-10 M15-79007
MEASUREMENTS OF THE THERMAL CONDUCTIVITY OF SINGLE CRYSTALS OF POTASSIUM BETWEEN 2.5 AND 40 K 67-11 M15-81388
DETERMINATION OF THE PHONON SPECTRUM OF A CRYSTAL FROM THE HEAT CAPACITY 67-11 M16-81042

SINGLE CRYSTALS, THERMODYNAMICS
THE THEORY OF THE STABILITY OF THE SOLID-LIQUID INTERFACE UNDER CONSTITUTIONAL SUPERCOOLING. PT. 1 67-01 M14-57570

SINGLE CRYSTALS, TRANSPORT PROPERTIES
EFFECT OF SUBSTRATE TEMPERATURE ON HALL COEFFICIENT OF THIN FILMS 67-01 M15-57214
SURFACE CONDUCTIVITY ON DEGENERATE GERMANIUM 67-01 M16-57553
ELECTRICAL PROPERTIES OF ALPHA-IN2SE3 67-02 M15-59480
THE TEMPERATURE DEPENDENCE OF THE DEFECT ELECTRON MOBILITY IN SILICON CRYSTALS 67-02 M15-61509
CONDUCTION BAND OF GASB 67-02 M15-61693
EVALUATION OF TRACE IMPURITIES IN THE PREPARATION OF HIGH-PURITY SILICON CARBIDE 67-02 M16-59451
TRANSPORT REACTIONS OF THE SILICIDES AND BORIDES OF TRANSITION METALS 67-03 M14-65184
EFFECT OF STRUCTURAL DEFECTS ON SOME ELECTRICAL PROPERTIES OF GERMANIUM DOPED WITH GOLD AND ANTIMONY 67-03 M16-65461
THERMOELECTRIC POWER OF VANADIUM DIOXIDE WHISKERS 67-03 M16-65645
IONIZATION ENERGIES AND THEIR PRESSURE DEPENDENCE OF CU AND AG IN INSB 67-03 M16-65650
ELECTRICAL AND GALVANOMAGNETIC PROPERTIES OF SINGLE CRYSTAL INSB DENDRITES 67-03 M16-65770
THE INFLUENCE OF COPPER IONS ON FAST SURFACE STATES OF GERMANIUM 67-03 M16-65804
HIGH TEMPERATURE HALL EFFECT IN CUPROUS OXIDE 67-05 M16-69091
DIFFUSION AND ELECTRICAL TRANSPORT OF ZINC IN INDIUM ARSENIDE 67-05 M16-69383
TEMPERATURE DEPENDENCE OF THE HALL COEFFICIENT IN N-PBTE 67-05 M16-69398
BEHAVIOR OF PHOSPHORUS IN CADMIUM TELLURIDE 67-05 M16-69399
HALL EFFECT VOLTAGE REVERSAL IN SHOCK-LOADED P-TYPE --100-- GERMANIUM 67-06 M16-70086
RECOMBINATION IN HIGH-RESISTIVITY SILICON 67-06 M16-70525
MOBILITY OF MINORITY CARRIES IN DEGENERATE GALLIUM ARSENIDE 67-06 M16-71772
MOBILITY OF MINORITY CARRIERS IN DEGENERATE GALLIUM ARSENIDE 67-06 M16-71926
HALL EFFECT IN LI-DOPED MNO 67-07 M15-73298
HALL EFFECT AND THERMOELECTRIC POWER IN SEMICONDUCTIVE TIO2 67-07 M16-73320

SINGLE CRYSTALS
FERMI SURFACE IN GALLIUM DTERMINED FROM THE RADIO-FREQUENCY SIZE EFFECT 67-07 M16-73943
HIGH FREQUENCY CONDUCTIVITY OF VO2 67-07 M16-73994
INTERPRETATION OF THE HALL COEFFICIENT, ELECTRICAL RESISTIVITY AND SEEBECK COEFFICIENT OF P-TYPE LEAD TELLURIDE 67-08 M15-74388
THIN FILM SEMICONDUCTORS 67-08 M15-75159
ELECTROLUMINESCENCE AND CRYSTALLOGRAPHIC POLARITY OF GALLIUM ANTIMONIDE 67-08 M16-74609
THERMOSTIMULATED CURRENTS IN P-TYPE CADMIUM TELLURIDE SINGLE CRYSTALS 67-09 M15-76738
GAAS-INSB GRADED-GAP HETEROJUNCTION 67-09 M16-78062
CONDUCTIVITY MEASUREMENTS ON PBSE SINGLE CRYSTALS WITH NATURAL P-N JUNCTION 67-10 M15-78446
SOME EFFECTS OF SAMPLE SIZE ON ELECTRICAL TRANSPORT IN BISMUTH 67-10 M15-79417
ELECTRICAL PROPERTIES OF GERMANIUM COMPOUNDS 67-11 M15-80610
SEMICONDUCTING PROPERTIES OF THALLIUM SELENIDE 67-11 M15-81476
SINGLE CRYSTALS, ULTRASONICS
ELECTRONIC CONTRIBUTION TO THE NORMAL STATE ULTRASONIC ATTENUATION IN INDIUM 67-01 M16-57958
EFFECT OF STRAIN AND IMPURITIES ON THE ULTRASONIC ATTENUATION IN SUPERCONDUCTING TIN 67-04 M16-66180
ULTRASONIC ATTENUATION IN A PURE TYPE-2 SUPERCONDUCTOR NEAR NC2 67-04 M16-66660
SINGLE CRYSTALS, WAVE MECHANICS
AMPLITUDE DEPENDENCE OF ULTRASONIC ATTENUATION IN SINGLE-CRYSTAL COPPER 67-06 M16-71099
SINGLE CRYSTALS, WORK FUNCTIONS
ANISOTROPIC WORK FUNCTIONS OF MOLYBDENUM SINGLE CRYSTALS 67-04 M13-68012
SINGLE CRYSTALS, X RAY ANALYSIS
SOME X-RAY OBSERVATIONS OF PLASTIC FLOW IN SINGLE CRYSTALS OF IRON 67-01 M17-57428
X-RAY DIFFRACTION STUDY OF THE PERFECTION OF NIOBIUM SINGLE CRYSTALS 67-03 M14-65090
A MULTIPURPOSE NEUTRON DIFFRACTION APPARATUS 67-04 M13-67224
X-RAY DIFFRACTION MICROSCOPY TECHNIQUE FOR THE STUDY OF AL SINGLE CRYSTALS 67-05 M14-68533
X-RAY METHODS IN THE STUDY OF DEFECTS IN SINGLE CRYSTALS 67-06 M13-71807
SINGLE CRYSTALS, X RAY DIFFRACTION
X-RAY DIFFRACTION METHODS 67-03 M13-65495
THE CRYSTAL STRUCTURES OF CR3 --C, N-- AND CR2VC2 67-05 M13-68486
FINDING MICROFOCUS OF X-RAY UNIT EMPLOYING TELEFOCUS ELECTRON BEAM ONE-STEP REDUCING TECHNIQUE AND ITS APPLICATION 67-05 M14-68534
SINGLE CRYSTALS, X RAY SPECTROSCOPY
FINE STRUCTURE ANISOTROPY OF THE X-RAY K-ABSORPTION SPECTRUM OF A GALLIUM SINGLE CRYSTAL 67-01 M13-57339
SINGLE PHASE ARC WELDERS
SEE ARC WELDING MACHINES
SINGLE PHASE SPOT WELDERS
SEE SPOT WELDERS
SINKING /DIE/
SEE DIE SINKING
SINTER /MATERIAL/
BLAST-FURNACE TRIALS ON THE SMELTING OF PREPARED BAKAL SIDERITES PRODUCING HIGH-MAGNESIA SLAGS 67-04 M02-66203
EXPERIMENTAL STUDY OF PRODUCTION OF THO2 AND THO2-UO2 PELLETS 67-04 M03-68037
THE REDUCING FUNCTION OF GASES IN A BLAST FURNACE OPERATING ON FLUXED SINTER AND NATURAL GAS 67-04 M04-67602
PRODUCTION OF FLUXED SINTER WITH AN IRON CONTENT OF OVER 61 PER CENT AND BLAST-FURNACE OPERATION ON SUCH SINTER 67-04 M04-67680
CHARACTERISTICS OF THE MINERALOGICAL COMPOSITION AND STRUCTURE OF FLUXED SINTER WITH A HIGH IRON CONTENT 67-05 M02-68316
OBTAINING A STABILIZED GRADED SINTER AND USING IT FOR EXPERIMENTAL BLAST FURNACE MELTING 67-05 M02-69676
EFFECT OF PREHEATING THE AIR AND ENRICHING IT WITH OXYGEN UPON THE PROPERTIES OF BF SINTER 67-07 M02-72561
SPECIAL FEATURES OF THE MINERALOGICAL COMPOSITION AND STRUCTURE OF FLUXED SINTER OF HIGH IRON CONTENT 67-07 M02-72844
COMPARATIVE INVESTIGATION INTO THE PERFORMANCE OF VARIOUS GRADES OF PELLETS AND SINTER IN THE BLAST FURNACE 67-07 M04-72706
COMPARATIVE INVESTIGATION INTO THE PERFORMANCE OF VARIOUS GRADES OF PELLETS AND SINTER IN THE BLAST FURNACE 67-07 M04-73032
THE EFFECTS OF BURDEN PREPARATION ON IRONMAKING 67-09 M02-76386
TESTS ON THE NO. 5 BLAST FURNACE AT THE REHON, PROVIDENCE, PLANT 67-09 M04-76377
BLAST FURNACE PRACTICE AND TRENDS IN BLAST FURNACE OPERATION AT KONINKLIJKE NEDERLANDSCHE HOOGOVENS EN STAALFABRIEKEN NV 67-09 M04-76388
BURDEN PREPARATION AND ITS IMPACT ON IRONMAKING AT PORT KEMBLA 67-09 M04-76391
ANALYTICAL CALCULATION OF CERTAIN TECHNOLOGICAL FACTORS AND SINTER GRADE AFFECTING BLAST FURNACE PERFORMANCE 67-11 M04-81462
SINTER /MATERIAL/, AGGLOMERATION
ON THE RICE GRAIN METHOD 67-05 M02-69360
SINTER /MATERIAL/, BENEFICIATION
PRELIMINARY RETENTION OF LIME IN A SINTER BATCH CONCENTRATE 67-08 M02-74885
SINTER /MATERIAL/, BLAST FURNACE PRACTICE
BLAST FURNACE MELTING AND PRODUCTION OF FLUXED SINTER, CONTAINING OVER 61 PER CENT IRON 67-02 M04-61861
SINTER /MATERIAL/, CHARGING
BLAST FURNACE PRACTICE WITH IMPORTED PELLETS VS SINTER AT NO. 2 TABATA --JAPAN--BLAST FURNACE 67-06 M04-72131
SINTER /MATERIAL/, CHEMICAL ANALYSIS
MINERALOGICAL COMPOSITION OF LIME-SPODUMENE CAKES 67-03 M19-65778
CONTINUOUS MEASUREMENT OF SINTER QUALITY 67-05 M02-68537
CARBON DISTRIBUTION DURING PELLETIZATION OF SINTER CHARGE 67-08 M02-74573
EFFECT OF COMPOSITIONAL VARIATIONS ON THE QUALITY OF ZINC-LEAD SINTER 67-08 M03-76059
CONTRIBUTION TO THE VACUUM SPECTROMETRIC ANALYSIS OF NONMETALLIC SUBSTANCES IN STEEL WORKS LABORATORIES 67-08 M04-75508
SINTER /MATERIAL/, COOLING
INFLUENCE OF COOLING METHODS ON QUALITY AND PROPERTIES OF SINTER 67-06 M02-71242
COOLING SINTER IN A HOPPER COOLER 67-10 M02-78417
SINTER /MATERIAL/, DESULFURIZING
BEHAVIOR OF SULFUR IN SINTERING CONDITIONS 67-05 M02-69505
SINTER /MATERIAL/, FLUXING
PHYSICAL AND CHEMICAL FEATURES OF PREPARING FLUXED SINTERS AND METHODS OF IMPROVING QUALITY 67-02 M02-59696
SINTER /MATERIAL/, HEAT TREATMENT
HEAT TREATMENT FOR SINTER 67-10 M02-79826
UPGRADING SINTER 67-10 M02-79827
SINTER /MATERIAL/, IRONMAKING
USE OF HIGH TOP PRESSURES AND WIND RATE WITH SINTER AND PELLET BURDENS 67-06 M04-72077
OPERATING PRACTICES REQUIRED TO OPTIMIZE BLAST FURNACE PERFORMANCE 67-06 M04-72078
SINTER /MATERIAL/, LEACHING
THE MECHANISM OF EXTRACTION OF AL2O3 FROM SINTERED CAKE 67-07 M02-73415
SINTER /MATERIAL/, MECHANICAL PROPERTIES
EFFECT OF SIZE AND QUANTITY OF RETURNS ON PRODUCTIVITY AND STRENGTH OF SINTER 67-02 M02-60055
SINTER STRENGTH IN RELATION TO CONDITIONS OF ITS COOLING 67-02 M02-62135
INVESTIGATING THE STRENGTH OF SINTER IN RELATION TO ITS COOLING CONDITIONS 67-04 M02-68177
EFFECT OF HUMIDITY AND FINENESS OF CONCENTRATE ON QUALITY OF CHARGE MIXING AND STRENGTH OF THE SINTER 67-07 M02-73770
PRODUCING STABILIZED SCREENED SINTER AND CARRYING OUT BLAST-FURNACE TRIALS ON IT 67-07 M02-74062
EFFECT OF BASICITY ON THE PROPERTIES OF ORE SINTER 67-08 M09-75589
INFLUENCE OF MOISTURE CONTENT AND FINENESS OF GRINDING OF CONCENTRATE ON QUALITY OF MIXING AND SINTER STRENGTH 67-09 M02-76533
THE SCATTERING UNDER LOAD OF ORE SINTERS WITH DIFFERENT BASICITIES 67-10 M02-79900
ON THE SOFTENING PROPERTY OF IRON ORE SINTER WITH

VARIOUS BASICITY RATIOS 67-12 M04-81742
SINTER /MATERIAL/, MELTING
USE OF HIGH-BASICITY SINTERS INSTEAD OF IRON ORE IN THE CHARGE OF OPENHEARTH FURNACES 67-02 M04-62140
USING HIGH BASICITY SINTER INSTEAD OF IRON ORE IN THE OPEN-HEARTH FURNACE CHARGE 67-04 M04-68182
SINTER /MATERIAL/, MICROSTRUCTURE
THE INFLUENCE OF ORGANIC ADDITIONS ON COLUMNAR GRAIN GROWTH OF SINTERED URANIUM DIOXIDE 67-04 M14-67460
SINTER /MATERIAL/, PELLETING
PILOT PLANT WORK IN THE FIELD OF IRON ORE AGGLOMERATION 67-01 M02-58102
BONDING PROCESSES DURING PELLETIZING OF AGGLOMERATES WITH A MAZUT ADDITIVE 67-02 M02-61738
SINTER /MATERIAL/, PERMEABILITY
CONTINUOUS MEASUREMENT OF THE PERMEABILITY OF A SINTER MIX 67-05 M02-68536
SINTER /MATERIAL/, PHASES /STATE OF MATTER/
ON THE MECHANISM OF MINERAL FORMATION DURING SINTERING OF A FLUXED AGGLOMERATE OF A MIXTURE OF KRIVOROG HEMATITE ORES AND FINELY GROUND MAGNETITE CONCENTRATE 67-02 M02-62136
DETERMINATION OF THE TEMPERATURES OF INCIPIENT MELTING OF A BLAST-FURNACE BURDEN 67-03 M06-65411
MECHANISM OF MINERAL FORMATION IN THE SINTERING OF FLUXED SINTER FROM A MIXTURE OF KRIVOI-ROG HEMATITE ORES AND FINE-GROUND MAGNETITE CONCENTRATE 67-04 M02-68178
SINTER /MATERIAL/, PHYSICAL PROPERTIES
INFLUENCE OF FLUXES UPON THE MINERAL CONSTITUENTS AND PHYSICAL PROPERTIES OF IRON ORE SINTER 67-04 M02-66297
STUDY OF THE ELECTROCONDUCTIVITY OF SINTERING CHARGES AND THEIR COMPONENTS 67-06 M02-70267
THE EFFECT OF ALUMINA ADDITIONS ON THE PROPERTIES OF SINTERS CONTAINING MAGNESIUM 67-09 M15-77497
SINTER /MATERIAL/, REACTIONS /CHEMICAL/
URANIUM CARBIDE. REFRACTORY METAL INTERACTIONS AT HIGH TEMPERATURE 67-03 M14-65987
REACTION OF ALUMINA WITH CESIUM VAPOR 67-04 M18-66138
AN EFFICIENT METHOD OF PRODUCTION CONTROL FOR BLAST-FURNACE SINTER REDUCIBILITY 67-05 M02-68735
KINETICS OF REDUCTION OF FLUXED IRON ORE PELLETS BY HYDROGEN 67-05 M02-69606
BEHAVIOR OF IRON ORE PELLETS SUBJECTED TO REDUCTION 67-05 M03-68458
OPERATION OF AN EXPERIMENTAL FURNACE WITH PELLET AND SINTER BURDENS 67-09 M02-76731
SINTER /MATERIAL/, REDUCTION /CHEMICAL/
REDUCTION OF FLUXED SINTER BY NATURAL GAS. PT. 2 67-03 M04-65952
KINETIC CHARACTERISTICS OF REDUCTION OF IRON ORE PELLETS BY HYDROGEN AND BY METHANE 67-05 M04-69503
REDUCTION OF FLUXED AGGLOMERATE BY CARBON BLACK IN A STREAM OF NITROGEN, CARBON MONOXIDE AND THEIR MIXTURES 67-05 M04-69509
COMPREHENSIVE REDUCTION OF A FLUXED SINTER BY MIXED GASES WITH HYDROGEN AND SOLID CARBOM 67-08 M04-74884
CHARACTERISTICS OF BRAZILIAN IRON ORES AND THEIR AGGLOMERATES 67-12 M02-83255
SINTER /MATERIAL/, REFINING
EFFECTIVE DESULFURIZING OF IRON OUTSIDE THE FURNACE 67-09 M02-76574
SINTER /MATERIAL/, ROASTING
DRYING ZINC CAKES FROM PULP IN A FLUIDIZED BED WITH SIMULTANEOUS GRANULATION OF THE PRODUCT 67-06 M02-71348
SINTER /MATERIAL/, STEEL MAKING
BLAST FURNACE OPERATION WITH WASHED BURDEN MATERIALS 67-09 M04-76726
EFFECTS OF BURDEN SIZING ON BLAST FURNACE OPERATION 67-09 M04-76727
ON DEGRADATION OF SINTER DURING CHEMICAL REDUCTION 67-10 M04-79991
SINTER /MATERIAL/, WETTING
THE MECHANISM OF NODULARIZING A SINTERING MIXTURE 67-05 M02-69511
SINTER /MATERIAL/, X RAY ANALYSIS
X-RAY ANALYSIS FOR ORES AND INTERMEDIATE PRODUCTS OF NONFERROUS METALLURGY 67-10 M19-78563
SINTERABILITY
ACTIVATED SINTERING OF BERYLLIUM 67-03 M09-65290
SINTERING OF YTTRIUM OXIDE 67-03 M09-65355
STRENGTH CHARACTERISTICS OF POROUS MATERIALS OF REFRACTORY COMPOUNDS 67-04 M17-67343
TIN ADDITIONS TO AID THE SINTERING OF IRON POWDER 67-06 M09-70884
NOW--STEEL IN POWDER METALLURGY 67-10 M09-80030
SINTERABILITY, ALLOYING EFFECTS
TIN ADDITIONS TO AID THE SINTERING OF IRON POWDER 67-08 M09-74671
SINTERED COMPACTS
SEE POWDER METALLURGY PARTS
SINTERED METAL
SEE POWDER METALLURGY PARTS
SINTERING
SEE ALSO ACTIVATED SINTERING
LIQUID PHASE SINTERING
LOOSE POWDER SINTERING
SIZED LIMESTONE FOR IRON ORE SINTERING 67-01 M02-57510
THE USE OF BURNED LIME AS PARTIAL REPLACEMENT FOR DOLOMITE FLUX IN SINTER MIXES 67-01 M02-57511
DETERMINATION OF CHARACTERISTICS OF SINTERED PRODUCTS 67-01 M02-58369
CLASSIFICATION OF SINTER MATERIALS 67-01 M02-58594
FRICTION POWDER FOR CLUTCH PLATES IN COMPUTERS 67-01 M09-57137
SINTERING KINETICS AND DIFFUSION CREEP OF SOLIDS 67-01 M09-57347
SINTERED PARTS MADE OF STAINLESS STEEL POWDER 67-01 M09-57611
USE OF ENDOTHERMIC GAS FOR SINTERING POWDERED-METAL ARTICLES 67-01 M09-57688
EFFECTS OF POWDER OXIDATION ON SINTERED THERMOELEMENTS 67-01 M09-58320
SINTERING 67-01 M09-58355
ROLE OF POWDER METALLURGY IN THE FABRICATION OF VERY LARGE PARTS 67-01 M09-58683
DEVELOPMENT TRENDS IN MODERN POWDER METALLURGY 67-01 M09-58717
THE FATIGUE BEHAVIOR OF SINTERED MATERIALS. PT. 2 67-01 M17-58230
METHOD FOR SINTERING SULFIDE-MAGNETITE ORES AND CONCENTRATES 67-02 M02-59533
TECHNIQUES FOR THE AGGLOMERATION OF CHROMITE ORES AND CONCENTRATES 67-02 M02-59537
REACTION OF CALCIUM, MAGNESIUM AND LEAD MOLYBDATES WITH A SODIUM CARBONATE SOLUTION 67-02 M02-59549
PRODUCTION OF FLUXED SINTER FROM MANGANESE CONCENTRATE AND SEPARATION OF MANGANESE CONVERTER SLAG 67-02 M02-60056
ON THE HEIGHT OF THE DRYING ZONE DURING ORE AGGREGATION 67-02 M02-60722
ANALYSIS OF THE OPERATION OF ROTARY SINTERING FURNACES IN ALUMINA PRODUCTION 67-02 M02-60959
WAYS OF INTENSIFYING THE SINTERING OF IRON-VANADIUM CONCENTRATE 67-02 M02-61739
ON THE MECHANISM OF MINERAL FORMATION DURING SINTERING OF A FLUXED AGGLOMERATE OF A MIXTURE OF KRIVOROG HEMATITE ORES AND FINELY GROUND MAGNETITE CONCENTRATE 67-02 M02-62136
INFLUENCE OF ADDITIONS OF FLUX ON GAS-PHASE COMPOSITION AND DEVELOPMENT OF OXIDATION-REDUCTION REACTION DURING SINTERING OF KRIVOROG ORE 67-02 M02-62224
INFLUENCE OF GAS FLOW PARAMETERS ON LAYER RESISTANCE WHEN SINTERING BY THE DRAFT METHOD 67-02 M02-62259
PREPARATION OF ZIRCONIUM DIBORIDE 67-02 M03-61625
REDUCED PRESSURE SINTERING OF MGO AS HIGH FREQUENCY INSULATOR. PT. 2 67-02 M05-60161
STUDY OF SINTERING AND RECRYSTALLIZATION OF MAGNESIAL SPINEL AND ITS MIXTURE WITH ALUMINA 67-02 M05-62293
ATOMIZING TECHNIQUES AS AUXILIARY MEANS IN THE POWDER SINTERING PROCESS 67-02 M09-58932
SINTERED METAL PRODUCTS 67-02 M09-59446
AN ANALYSIS OF SHRINKAGE KINETICS DURING SINTERING OF REDUCED CHROMIUM POWDER 67-02 M09-59605
MICROSTRUCTURE AND PROPERTIES OF TUNGSTEN-CARBIDE-

COBALT HARD ALLOYS, THEIR MUTUAL EFFECTS AND THEIR DEPENDENCY ON THE INITIAL POWDERS 67-02 M09-59914

INVESTIGATION OF THE SINTERING OF ALLOYS OF ZIRCONIUM DIBORIDE WITH MOLYBDENUM DISILICIDE 67-02 M09-60175

EFFECT OF NICKEL, COBALT AND MANGANESE ACTIVATORS ON ACTIVATION OF CERMET IRON SINTERING. PT. 1 67-02 M09-60176

TRENDS IN THE DEVELOPMENT OF SINTERED MATERIALS 67-02 M09-60205

WHATS NEW IN POWDER METALLURGY 67-02 M09-60249

THE SINTERING OF URANIUM WITH HIGHLY OXIDE-FREE SURFACES 67-02 M09-60826

TECHNOLOGY OF UO2 SINTERING 67-02 M09-60992

EFFECT OF WATER VAPOR ON INITIAL SINTERING OF MAGNESIA 67-02 M09-61085

SOME PROCESSES OCCURRING DURING HEAT TREATMENT OF POWDER MATERIALS 67-02 M09-61637

SINTERING OF CERMET PISTON RINGS BY HIGH-FREQUENCY CURRENTS 67-02 M09-61638

THE EFFECT OF THE PARTICLE SIZE OF ALUMINUM POWDER ON THE SINTERING OF A CU-AL ALLOY IN THE PRESENCE OF A LIQUID PHASE 67-02 M09-61783

THE SINTERABILITY OF CHROMIUM POWDER 67-02 M09-61784

ON THE SINTERING OF SINGLE CRYSTAL RUTILE 67-02 M09-61822

THE PREPARATION OF LOW-POROSITY SPECIMENS OF TITANIUM AND ZIRCONIUM HYDRIDES BY THE METHOD OF REACTIVE SINTERING 67-02 M09-62105

EXPERIENCE IN MANUFACTURING FRICTION SINTERED ALLOYS WITH AN IRON BASE 67-02 M09-62131

THE HIGH-TEMPERATURE SINTERING OF TUNGSTEN 67-02 M09-62205

A SINTERED BEARING WITH A PLASTICS COATING AND A COMPENSATING RESERVOIR 67-02 M09-62208

PHYSICAL AND MECHANICAL PROPERTIES OF HYPEREUTECTIC AL-SI 21 ALLOY SINTERED PRODUCTS 67-02 M09-62289

INTENSIFYING THE SINTERING OF NATURAL AND CAUSTIC MAGNESITE BY THERMAL ACTIVATION 67-03 M05-65911

GAS ENTRAPMENT DURING THE SINTERING OF MAGNESIA IN ARGON 67-03 M09-65672

THE SYSTEM IRON CARBON IN POWDER METALLURGY 67-03 M09-65927

MINERALOGICAL COMPOSITION OF LIME-SPODUMENE CAKES 67-03 M19-65778

OBTAINING SINTER FROM MANGANESE CONCENTRATE MIXED WITH ORE 67-04 M02-67129

STUDY OF THE STRENGTH OF FIRED PELLETS OF MANGANESE CONCENTRATE 67-04 M02-67130

MECHANISM OF MINERAL FORMATION IN THE SINTERING OF FLUXED SINTER FROM A MIXTURE OF KRIVOI-ROG HEMATITE ORES AND FINE-GROUND MAGNETITE CONCENTRATE 67-04 M02-68178

CHEMICAL CONVERSION OF MANGANESE ORES 67-04 M03-67160

CONTROL AND AUTOMATION OF THE DWIGHT-LLOYD PROCESS 67-04 M04-68048

MAGNESIA PRECURSOR AND SINTERING STUDY 67-04 M05-67325

EFFECT OF SMALL ADDITIONS OF COPPER ON SINTERING OF STAINLESS STEEL 67-04 M09-66094

MACHINE ELEMENTS OF SINTERED MATERIAL 67-04 M09-66188

REGULARITIES OF STRUCTURE FORMATION DURING THE SINTERING OF IRON-GRAPHITE COMPOSITIONS 67-04 M09-67337

SINTERED, POROUS METALLIC ELEMENTS--THEIR PROPERTIES AND USES 67-04 M09-67397

RELATIONSHIP OF MAGNETIZATION SATURATION AND ELECTRICAL RESISTANCE OF A NI-ZN-CO FERRITE WITH AN INDUCED RIGHT-ANGLED HYSTERESIS LOOP TO PHASE COMPOSITION 67-04 M15-66496

POROUS METALS FILTER LIQUIDS, CUT NOISE, DAMPEN VIBRATION 67-05 M01-68428

CHARACTERISTICS OF THE MINERALOGICAL COMPOSITION AND STRUCTURE OF FLUXED SINTER WITH A HIGH IRON CONTENT 67-05 M02-68316

REGULATION OF THE DL SINTER STRAND IN HADIR-DIFFERDINGEN 67-05 M02-68535

SINTERING A BATCH COMPOSED OF 100 PER CENT FINE-COMMINUTED KREMIKOVO MAGNETITE CONCENTRATE 67-05 M02-69228

CERTAIN FACTORS AFFECTING THE QUALITY OF A SELF-FLUXED SINTER 67-05 M02-69253

KINETICS OF REDUCTION OF FLUXED IRON ORE PELLETS BY HYDROGEN 67-05 M02-69606

HEAT TREATING SINTER 67-05 M02-69895

DECARBURIZATION AND SINTERING OF BRIQUETS IN VACUUM-THERMAL PRODUCTION OF CARBON-FREE FERROCHROMIUM 67-05 M04-69686

DIFFUSIONAL MODELS AND SINTERING OF REAL POWDERS 67-05 M09-68393

OXYGEN CONTENT IN SINTERING METAL POWDERS--AN EXPERIMENTAL STUDY 67-05 M09-68394

INVESTIGATION OF CARBONIZATION PROCESSES DURING GRAPHITIC IRON SINTERING 67-05 M09-68702

PHYSICAL PROPERTIES AND METALLOGRAPHY OF TITANIUM CARBIDE/STEEL INFILTRATION ALLOYS 67-05 M09-69061

AUTOMATIC CONTROL AND REGULATION OF THE HUMIDITY OF SINTERING CHARGE 67-05 M19-68319

HOW THE BASICITY OF A FLUXED MANGANESE SINTER AFFECTS ITS PHASE MAKE-UP 67-06 M02-70179

INFLUENCE OF SIDERITE ON SINTERING PROCESS AND QUALITY OF SINTER 67-06 M02-71240

INFLUENCE OF COOLING METHODS ON QUALITY AND PROPERTIES OF SINTER 67-06 M02-71242

METHODS FOR PRODUCING ALUMINA FROM CLAY 67-06 M02-71556

HEAT BALANCE FOR PRODUCING MERCURY BY SINTERING ORE IN A TUBULAR FURNACE 67-06 M03-70206

SINTERING METAL CARBIDES UNDER PRESSURE 67-06 M09-70317

THE DETERMINATION OF THE MECHANISM OF SINTERING 67-06 M09-70416

SOME ASPECTS OF SINTERING WITH SPECIAL REFERENCE TO OXIDES AND TO REDUCING CONDITIONS 67-06 M09-70883

REGULARITIES OF SINTERING OF ZIRCONIUM DIBORIDE-MOLYBDENUM ALLOYS 67-06 M09-70959

THE PUSH FOR PERMEABILITY 67-06 M09-72316

SINTERING PROCESS AND THERMAL EXPANSION OF SILVER-GRAPHITE 67-06 M14-72069

EFFECT OF PREHEATING THE AIR AND ENRICHING IT WITH OXYGEN UPON THE PROPERTIES OF BF SINTER 67-07 M02-72561

SPECIAL FEATURES OF THE MINERALOGICAL COMPOSITION AND STRUCTURE OF FLUXED SINTER OF HIGH IRON CONTENT 67-07 M02-72844

INFLUENCE OF THE OVER-WET ZONE ON THE BED PERMEABILITY IN SINTERING IRON ORES 67-07 M02-73001

EFFECT OF HUMIDITY AND FINENESS OF CONCENTRATE ON QUALITY OF CHARGE MIXING AND STRENGTH OF THE SINTER 67-07 M02-73770

EXPERIMENTS IN HEAT TREATING SINTERS FROM THE ORES OF KURSK DEPOSITS 67-07 M02-73771

PRODUCING STABILIZED SCREENED SINTER AND CARRYING OUT BLAST-FURNACE TRIALS ON IT 67-07 M02-74062

TENDENCIES IN THE FORMATION OF LUMPS OF BURDEN MATERIALS FOR SHAFT FURNACES 67-07 M02-74104

DECARBURIZATION AND SINTERING BRIQUETTES IN THE VACUUM THERMAL PRODUCTION OF CARBON-FREE FERROCHROMIUM 67-07 M04-74072

SENSITIVE RESONANT FREQUENCY TECHNIQUE FOR THE STUDY OF SINTERING KINETICS 67-07 M09-72828

SOME PROBLEMS IN SINTERING AND COMPACTION OF STOCK ROLLED FROM POWDERS 67-07 M09-73031

HOT PRESSING OF ALUMINA--A NEW TREATMENT OF FINAL DENSIFICATION 67-07 M09-73623

A NEW METHOD FOR COMPACTING METAL OR CERAMIC POWDERS INTO CONTINUOUS SECTIONS 67-07 M09-73864

THE COMPACTION OF METAL POWDERS BY ROLLING 67-07 M09-73866

SOME PROPERTIES OF P/M NICKEL ALLOY STEEL 67-07 M09-73958

AUTOMATIC MONITORING AND CONTROL OF MOISTURE CONTENT OF SINTERING MIX 67-07 M19-72847

EFFECT OF FUEL COARSENESS ON THE VALUE OF THE EXCESS AIR COEFFICIENT IN SINTERING 67-08 M02-74324

SULFUR REMOVAL IN SINTERING MAGNETITE IRON ORES AND CONCENTRATES WITH MAGNESIAL GANGUE. PT. 2 67-08 M02-74575

STABILIZATION OF SINTER FROM OXIDIZED NICKEL ORES 67-08 M02-74881

PRELIMINARY RETENTION OF LIME IN A SINTER BATCH CONCENTRATE 67-08 M02-74885

HOW BATCH MAKE-UP AFFECTS FUEL USAGE IN SINTERING 67-08 M02-74886

INTENSIFICATION OF THE PROCESSES OF SINTERING NEPHELITE CHARGES BY INTRODUCING CARBON ADDITIVES

67-08 M02-75150
INFLUENCE OF BAKAL SIDERITES ON SINTERING PROCESS INDICES AND SINTER QUALITY 67-08 M02-75709
INFLUENCE OF METHOD OF COOLING ON QUALITY AND PROPERTIES OF SINTER 67-08 M02-75711
INVESTIGATION OF SINTERING AND PROPERTIES OF SOLID SOLUTIONS OF TIC AND ZRC CARBIDES WITH NBC 67-08 M09-74306
SINTERED TYPE 316L STAINLESS--ITS PROPERTIES AND PROCESSING 67-08 M09-74490
ELECTRONIC MODELING OF THE SINTERING MECHANISM OF METALLIC AND NONMETALLIC POWDERS 67-08 M09-74934
SINTERING OF METAL-GLASS COMPOSITES--DEPENDENCE BETWEEN TOTAL POROSITY AND OPEN POROSITY DURING SINTERING OF METAL-GLASS MATERIALS 67-08 M09-75427
PRODUCTION OF HIGH-STRENGTH PRODUCTS FROM PIG IRON POWDER 67-08 M09-75453
INVESTIGATION OF THE SINTERABILITY OF MOLYBDENUM 67-08 M09-75464
EFFECT OF ALLOYING ELEMENTS ON THE PROPERTIES OF MOLYBDENUM POWDER AND ITS BEHAVIOR DURING SINTERING 67-08 M09-75466
SINTERING OF SILVER OXIDE POWDER AT 173 C 67-08 M09-75519
DESIGN FOR POWDER METALLURGY 67-08 M09-75611
CONTROL AND AUTOMATION OF THE SINTERING PROCESS 67-09 M02-76392
INFLUENCE OF MOISTURE CONTENT AND FINENESS OF GRINDING OF CONCENTRATE ON QUALITY OF MIXING AND SINTER STRENGTH 67-09 M02-76533
EXPERIMENTS ON HEAT TREATMENT OF SINTER FROM KURSK MAGNETIC ANOMALY ORES 67-09 M02-76534
SUPERFLUXED SINTER PRACTICE AT BETHLEHEM STEEL CORP.S LACKAWANNA PLANT 67-09 M02-76729
HOW EXTENT OF FLUXING AFFECTS INDEXES AND PRODUCT QUALITY IN SINTERING MANGANESE MATERIALS 67-09 M02-76880
THE USE OF SEMICOKE AS A FUEL FOR SINTERING IRON ORES 67-09 M02-76933
STUDY OF MINERAL FORMATION AND DESULFURIZATION IN ROASTING BARITE-BEARING HEMATITE ORES 67-09 M02-77264
INFLUENCE OF THE PRINCIPAL SINTERING PARAMETERS ON SIDELORS PLANT IN ROMBAS 67-09 M02-77838
ECONOMIC PROBLEM OF ENERGY SUPPLY FOR THE PRODUCTION OF ALUMINUM OXIDE BY SINTERING 67-09 M03-76739
REFRACTORY PLUTONIUM FUEL MATERIALS 67-09 M09-76338
PREPARATION OF UO2-PUO2-ZRO2 FUELS 67-09 M09-76339
INITIAL SINTERING OF RUTILE 67-09 M09-76398
CHARACTERISTICS OF EXTRUDING AND SINTERING REDUCED COPPER POWDERS 67-09 M09-76566
EFFECT OF THE STRESS CONDITION PRODUCED IN THE EXTRUSION VOLUME ON THE SHRINKAGE DURING SINTERING. PT. 1. EFFECT OF HEATING AND COOLING RATES ON SHRINKAGE OF SPECIMENS DURING SINTERING 67-09 M09-76567
EFFECT OF THE STRESS CONDITION PRODUCED IN THE EXTRUSION VOLUME ON THE SHRINKAGE DURING SINTERING. PT. 2. CALCULATION OF THE STRESS CONDITION OF POWDERED-METAL SPECIMENS DURING SINTERING 67-09 M09-76568
THE EFFECTS OF SOME VARIATIONS IN FABRICATION PROCEDURE ON THE PROPERTIES OF LEAD ZIRCONATE-TITANATE CERAMICS MADE FROM SPRAY-DRIED, CO-PRECIPITATED POWDERS 67-09 M09-76747
MANUFACTURE OF POWDERED-METAL MATERIALS CONTAINING ADDITIVES 67-09 M09-76898
SINTERING OF ALLOYS OF ZIRCONIUM DIBORIDE WITH MOLYBDENUM DISILICIDE 67-09 M09-76908
ACTIVATION OF THE SINTERING OF IRON POWDER BY NICKEL, COBALT, AND MANGANESE ADDITIONS. PT. 1 67-09 M09-76909
ANALYSIS OF DENSIFICATION KINETICS DURING THE SINTERING OF REDUCED CHROMIUM POWDER 67-09 M09-76923
ACTIVATION OF THE SINTERING OF IRON POWDER BY NICKEL, COBALT, AND MANGANESE ADDITIONS. PT. 2 67-09 M09-76924
MEASUREMENT OF TEMPERATURES DURING ELECTRIC CONTACT SINTERING OF METAL POWDERS 67-09 M09-76991
UNALLOYED TUNGSTEN.. POWDER-METALLURGY MATERIAL 67-09 M09-77325
GRAIN GROWTH DURING SINTERING OF TUNGSTEN 67-09 M09-77460
EFFECTS OF RESIDUAL GAS ON THE SINTERING OF ALUMINA TO THEORETICAL DENSITY IN VACUUM 67-09 M09-77528
THE SINTERING PROCESS 67-09 M09-77545
FROM ALUMINUM POWDER TO P/M PREFORMS TO FORGED AND EXTRUDED PARTS 67-09 M09-78166
THE INFLUENCE OF THE PHYSICO-CHEMICAL CHARACTERISTICS OF THE FLUXED SINTERS FROM RAJHARA IRON ORE ON THEIR MINEROLOGICAL ANALYSIS. PT. 1 67-10 M02-78751
STUDY OF WHIRL SINTERING OF POLYMETALLIC SULFIDE CONCENTRATES 67-10 M02-80047
SILICOCARBIDE REFRACTORIES ON COMPLEX BASE OF SI2ON, SIC AND SI3N4 67-10 M05-79353
SINTERING PROCESSES IN METAL-GLASS MATERIALS. PT. 1. INFLUENCE OF SINTERING TEMPERATURE ON SHRINKAGE PROCESSES 67-10 M09-78986
EFFECT OF ISOSTATIC PRESSURE ON SINTERING 67-10 M09-79433
SINTERED TURBINE BLADES FOR ARDUOUS TEMPERATURE AND STRESS CONDITIONS 67-10 M09-79794
THE NATURE AND EFFECTS OF EXCESS CARBON DEFECTS IN TUNGSTEN CARBIDE-COBALT ALLOYS ON MECHANICAL PROPERTIES 67-10 M09-79977
SINTERING IRON ORES NAUK SSSR, MOSCOW, 1966, P 5-74 67-11 M02-81454
THE INFLUENCE OF SINTER TEMPERATURE ON THE CAPACITY OF SILVER ELECTRODES 67-11 M09-80838
SINTERING OF CONSTRUCTIONAL POWDER MATERIALS BY HIGH-FREQUENCY CURRENTS 67-11 M09-80889
PROPERTY VARIATIONS DUE TO SINTERING OF BI2TE3 THERMOELEMENTS MADE BY POWDER METALLURGY 67-11 M09-81068
PROGRESSIVE SHAPE CHANGES OF THE VOID DURING SINTERING 67-11 M09-81339
THE HARDNESS/POROSITY RELATIONSHIP IN CHROMIC OXIDE CERMETS 67-11 M09-81539
THE ROLE OF SURFACE, VOLUME AND GRAIN BOUNDARY DIFFUSION IN THE SINTERING PROCESS OF METALS 67-11 M14-80380
PLUTONIUM 67-11 M15-80461
THE EFFECT OF THE COARSENESS OF IRON ORES AND CONCENTRATES ON THE SINTERING INSTALLATION PRODUCTIVITY 67-12 M02-81705
PRODUCING A HIGH STRENGTH SINTER WITH 1.2-1.4 BASICITY 67-12 M02-81857
PRODUCTION OF SINTER FROM A FINELY MILLED CONCENTRATE AT THE KACHKANAR SINTERING FACTORY 67-12 M02-81858
POSSIBLE USE OF PYRITE SINTER IN FERROUS METALLURGY 67-12 M02-82481
INFLUENCE OF COOLING CONDITIONS ON QUALITY OF NEPHELINE SINTER 67-12 M02-83020
HEAT TRANSFER IN SINTER ROASTING 67-12 M02-83080
THE INFLUENCE OF THE PHYSICOCHEMICAL CHARACTERISTICS OF THE FLUXED SINTERS FROM RAJHARA IRON ORE ON THEIR MINEROLOGICAL ANALYSIS. PT. 1 67-12 M02-83120
STUDY OF THE AGGLOMERATION OF IRON ORE FINES FROM THE EL MARQUESADO MINE 67-12 M02-83202
HIGH-SPEED SINTER BATCH CALCULATION 67-12 M02-83412
SINTER COOLING ON A PAN COOLER AT ABAGURSK SINTER PLANT 67-12 M02-83415
HOW BASICITY AFFECTS SINTER PROCESS INDEXES AND METALLURGICAL PROPERTIES OF THE PRODUCT 67-12 M02-83452
COMPARATIVE INVESTIGATION OF THE DRESSING AND SINTERING BEHAVIOR OF A NEW TYPE OF ELECTROLYTIC IRON POWDER 67-12 M09-81990
THE ROLE OF SURFACE, VOLUME AND GRAIN BOUNDARY DIFFUSION IN SINTERING OF METALS 67-12 M09-82054
SINTERING OF PURE THORIUM OXIDE 67-12 M09-82056
INVESTIGATION OF SINTERING AND PROPERTIES OF POROUS BRIQUETS MADE OF GRANULATED CHROMIUM AND CHROMIUM-BASE POWDERS 67-12 M09-82208
CARBURIZATION PROCESSES DURING THE SINTERING OF IRON-GRAPHITE MATERIALS 67-12 M09-82678
ACTIVATED SINTERING OF TUNGSTEN WITH SMALL ADDITIONS OF NICKEL 67-12 M09-82780
STRUCTURE AND MECHANICAL PROPERTIES OF LOW-PER CENT FE DISPERSION-STRENGTHENED AL-FEAL3 ALLOYS FOR NUCLEAR APPLICATIONS 67-12 M09-82807
EFFECTS OF NONUNIFORMITY OF OXIDE DISPERSION ON

SINTERING

MECHANICAL PROPERTIES OF SINTERED ALUMINUM POWDER ALLOYS AT ROOM AND ELEVATED TEMPERATURES 67-12 M09-83112
SINTERING OF COMPACTED POWDERS. PT. 2 67-12 M09-83313
SINTERING OF COMPACTED POWDERS. PT. 1 67-12 M09-83314
INVESTIGATION OF SINTERING OF LOOSE POWDERS OF TIC AND ZRC 67-12 M09-83552
ACTIVATION SINTERING OF TUNGSTEN WITH ADDITIONS OF NICKEL 67-12 M09-83553
INVESTIGATION OF SINTERING AND PROPERTIES OF CHROMIUM-BASE COMPACTS 67-12 M09-83554
CHANGES IN SINTERING KINETICS UNDER THE INFLUENCE OF ULTRASONIC VIBRATIONS 67-12 M09-83566
PREPARATION OF ZNSEXTE1-X CRYSTALS BY VAPOR TRANSPORT 67-12 M14-82676
PACKED BEDS IN METALLURGICAL OPERATIONS 67-12 M15-83076
THE RELATIONSHIP BETWEEN EMANATING POWDER AND SPECIFIC SURFACE OF FINELY DIVIDED SOLIDS AND ITS USE IN INVESTIGATING THE KINETICS OF SINTERING 67-12 M16-83196

SINTERING, ALLOYING EFFECTS
CRITERIA FOR THE SELECTION OF ADDITIVES TO ENABLE THE SINTERING OF ALUMINA TO PROCEED TO THEORETICAL DENSITY 67-09 M09-77527

SINTERING, AUTOMATION
DEVICE FOR CONTROL AND REGULATION OF THE END OF THE SINTERING PROCESS 67-02 M02-59868
TWO EXAMPLES OF COMPUTER USE IN THE IRON MAKING INDUSTRY 67-04 M04-66675
SINTER PLANT CONTROL 67-05 M02-69170
REMOTE CONTROL TECHNIQUES IN THE AUTOMATION OF THE SINTERING PLANT OF THE ILSEDE --PEINE-- WORKS AS MEANS OF OPTIMIZATION OF THE SINTERING PROCESS 67-10 M02-79686
ORE PREPARATION FOR MODERN BLAST FURNACE PLANT 67-12 M02-83075

SINTERING, COMPOSITION EFFECTS
ON THE EFFECT OF TIO2 ADDITIONS ON SINTERING OF UO2 67-03 M14-65857

SINTERING, CONTROLLED ATMOSPHERES
HEAT TREATING-P/M PARTS AND EXTRUSIONS 67-07 M10-73962

SINTERING, FUEL CONSUMPTION
HEAT CONSUMPTION FOR REDUCTION ROASTING OF IRON ORES 67-03 M02-65955

SINTERING, HEAT TREATMENT
SINTERING OF METAL POWDER STRUCTURAL MATERIALS BY INDUCTION HEATING 67-07 M09-72503

SINTERING, HEATING EFFECTS
INFLUENCE OF POWDER HEAT TREATMENT ON THE SINTERING OF --UPU--O2 67-09 M09-76337

SINTERING, POROSITY
SOME REGULAR FEATURES IN THE SINTERING OF POROUS PARTS FROM HIGH-MELTING-POINT COMPOUNDS 67-06 M09-70766

SINTERING, STRESS EFFECTS
INFLUENCE OF PRESSURE UPON THE SINTERING KINETICS OF SILVER 67-12 M17-82579

SINTERING, ULTRASONICS
ULTRASONIC ACTIVATION DURING PRODUCTION OF REFRACTORY METAL POWDER COMPACTS 67-02 M09-62188
PREPARATION OF DENSE PARTS FROM REFRACTORY METALLIDES WITH ULTRASONIC ACTIVATION 67-08 M09-75964

SINTERING FURNACES
SINTERING OF POWDERED MOLYBDENUM IN A VACUUM FURNACE PROVIDED WITH GRAPHITE HEATERS AND LINING 67-08 M09-75472
PRODUCTION OF SINTER FROM A FINELY MILLED CONCENTRATE AT THE KACHKANAR SINTERING FACTORY 67-12 M02-81858

SINTERINGS
SEE POWDER METALLURGY PARTS

SIPHONS
THE TECHNOLOGICAL FEATURES OF THE HIGH-SPEED SIPHON TEEMING OF RIMMING AND SEMI-KILLED STEEL INGOTS 67-04 M04-67230

SIZE DETERMINATION
SEE ALSO SIEVE ANALYSIS
RADIOGRAPHIC INSPECTION WITH THERMAL NEUTRONS 67-01 M19-58346
PROGRESS REPORT--RADIOISOTOPE THICKNESS MEASUREMENT SYSTEMS AND TECHNIQUES 67-05 M19-69486

SIZE DISTRIBUTION /PARTICLE/
SEE PARTICLE SIZE DISTRIBUTION

SIZE EFFECTS
TENSION TESTING ALUMINA WHISKERS 67-06 M17-70686

SIZE REDUCTION
SEE COMMINUTION

SIZING /SCREENING/
SEE SCREENING /SIZING/

SIZING /SHAPING/
CASTING HOT-SIZING DIES FOR TITANIUM 67-03 M06-65767
ROLLER BURNISHING 67-05 M08-68790

SKIN EFFECT
ANOMALOUS SKIN EFFECT IN TIN AND INDIUM 67-10 M16-79412

SKIN PASS ROLLING
ROLLING FORCE IN THE CASE OF SKINPASS ROLLING 67-02 M07-58844

SKIPS, AUTOMATION
AN AUTOMATIC SYSTEM FOR CONTROLLING THE SKIP HOIST OF A BLAST FURNACE BY AN ELECTRICAL DRIVE WITH CONTACTLESS LOGIC ELEMENTS 67-08 M04-76265
AUTOMATIC CONTROL SYSTEM FOR ELECTRIC DRIVE OF A BLAST-FURNACE SKIP HOIST WITH CONTACTLESS LOGICAL UNITS 67-10 M04-79258

SKIPS, MECHANICAL PROPERTIES
FATIGUE FAILURE OF COMPONENTS OF LIFTING MACHINERY 67-08 M17-74502

SKULL CASTING
SEE CASTING
SKULL MELTING

SKULL MELTING
SOME EXPERIMENTS ON THE PREPARATION AND FABRICATION OF UC AND --UPU--C--THE PREPARATION OF CARBIDES BY CARBOTHERMIC REDUCTION OF OXIDES IN FLOWING ARGON--THE FABRICATION OF CARBIDES BY SKULL ARCMELTING 67-09 M03-76340

SLAB CASTING
MANUFACTURE OF STAINLESS STEEL IN THE TOP BLOWN OXYGEN CONVERTER 67-10 M04-78617
CONTINUOUS CASTING PLANT AT MURORAN WORKS 67-11 M04-80501
APPLICATION EXPERIMENTS OF THE ACCELERATED SOLIDIFICATION PROCESS TO SLAB INGOTS AND LARGE FORGING INGOTS 67-11 M04-80794
A RADIAL-TYPE CONTINUOUS STEEL CASTING INSTALLATION FOR PRODUCING SLABS 67-12 M04-81861

SLAB MILLS
ON THE PRODUCT OF PLATE MILL AT WAKAYAMA STEEL WORKS 67-01 M07-58244
SEVERAL EXPERIMENTS ON FOUR-HIGH PLATE MILL 67-01 M07-58245
IMPROVING THE OPERATION OF SLAB MILL VERTICAL STANDS 67-06 M07-71254
IMPROVING OPERATING CONDITIONS OF VERTICAL STANDS IN SLABBING MILLS 67-08 M07-75723
OPTIMIZATION OF THE ROLLING PRACTICE IN REVERSING BLOOMING-SLABBING MILL TRAINS OPERATING IN THE RANGE OF ARMATURE VOLTAGE 67-10 M07-78696
OPTIMIZED ROLLING PRACTICE ON BLOOMING-SLABBING MILLS IN THE WEAKENING FIELD RANGE OF THE MAIN DRIVE 67-10 M07-78697

SLAB MILLS, AUTOMATION
CONTROL ALGORITHMS FOR A SYSTEM OF AUTOMATION OF ROLLING IN SLABBING AND BLOOMING MILLS 67-02 M07-60734
A NONCONTACTING DIGITAL LENGTH/WIDTH GAGE FOR HOT SLABS 67-12 M19-83593

SLABBING /ROLLING/
SEE METAL ROLLING

SLABS, CASTING
CRYSTALLIZERS FOR CONTINUOUS CASTING OF WIDE SLABS 67-02 M04-62142
CONTINUOUS CASTING OF NON-FERROUS METAL BILLETS AND SLABS. PT. 2 67-03 M03-65500
MELTING AND CONTINUOUS CASTING OF SLABS FROM KILLED OPENHEARTH AND CONVERTER MEDIUM CARBON STEELS 67-04 M04-66853
MOULDS FOR THE CONTINUOUS CASTING OF WIDE SLABS 67-04 M04-68184
CASTING BERYLLIUM INGOTS AND SHAPES 67-04 M06-67887
PRESSURE CASTING STEP BY STEP 67-05 M04-68687
SLAB CASTING--CAUTION GIVES WAY TO ACTION 67-05 M04-68809
METALLURGY OF CONTINUOUS CASTING 67-06 M04-72025
CONTINUOUS CASTING OF VERY LARGE SECTIONS AT SHELTON 67-06 M04-72026

SLABS, CLEANING

MACHINE FOR FLAME SCARFING OF HOT BLOOMS AND SLABS
67-09 M12-76834

SLABS, FORMING
BETHLEHEMS BURNS HARBOR HOT STRIP MILL IS IN PRODUCTION 67-03 M07-65926

SLABS, HEAT TREATMENT
SLABS LEAVE FURNACE WITHOUT SCALE
67-10 M10-78860
REHEATING FURNACES FOR CONTINUOUS STEELMAKING
67-12 M10-82929

SLABS, HEATING
SLAB REHEATING 67-03 M07-65921
MCLOUTH STEEL INSTALLING SLAB INDUCTION HEATING FACILITY FOR CONTINUOUS OPERATION
67-06 M04-71004
EXISTING AND FUTURE DESIGNS OF SLAB REHEATING FURNACES 67-10 M10-78332

SLABS, NONDESTRUCTIVE TESTING
FINISHING OF INTERMEDIATE PRODUCTS
67-02 M12-62069
BRIGHTSIDE INSPECTION AND DESEAMING LINES FOR LYSAGHTS 67-07 M19-72932
HIGHLY MECHANIZED INSPECTION AND DESEAMING LINES IN A STEELWORKS 67-07 M20-73373

SLABS, ROLLING
DISCREPANCY IN THICKNESS OF TWO-LAYERED SHEET
67-01 M07-58287
CONTROL OF A MULTISTAND HOT-STRIP MILL
67-07 M07-72900
ACCURACY OF NOMINAL WIDTH OF PLATE ROLLED ON REVERSING PLATE MILLS 67-07 M07-74142
MEASURING, INDICATING AND RECORDING IN HEAVY AND MEDIUM PLATE ROLLING MILLS 67-08 M19-76288
WIDE PLANETARY MILL FOR STAINLESS STEEL
67-12 M07-82931

SLAG DISPOSAL
LINING SLAG LAUNDERS WITH CARBON BLOCKS
67-09 M04-77036

SLAG FUMING
A COMPUTER MODEL OF THE SLAG-FUMING PROCESS FOR RECOVERY OF ZINC OXIDE 67-12 M03-82765

SLAG RESISTANCE HEATING
COMPLEX IMPROVEMENT OF INGOT QUALITY BY CASTING THE STEEL UNDER SLAG AND HEATING THE FEEDER HEADS
67-09 M04-77361

SLAG WOOL
COMPOSITION AND PROPERTIES OF STONE FROM ELECTRIC FURNACE SLAGS FROM THE COPPER AND NICKEL INDUSTRY
67-09 M04-76579

SLAGGING
EFFECT OF SCRAP DENSITY ON SLAG CONDITIONS DURING THE MELTING PERIOD 67-04 M04-66078
BRIQUETS AS A SLAGFORMING MATERIAL IN STEEL PRODUCTION 67-04 M04-67608
STEEL FROM LARGE ARC FURNACES REFINED WITH SYNTHETIC SLAG 67-04 M04-67872
RESEARCH INTO THE PROCESS OF RUNNING OFF SLAG IN CONVERTERS 67-04 M04-67873
POWDERED OR LUMPY LIME FOR THE BASIC OXYGEN FURNACE
67-04 M04-68045
THE RELATIONSHIP BETWEEN THE QUALITY OF LARGE CASTINGS AND STEEL MELTING AND POURING TECHNIQUES 67-04 M17-67951
MELTING PRACTICE FOR HIGH CARBON STEEL MADE BY THE BASIC OXYGEN LD PROCESS 67-05 M04-68729
INTERFACIAL TENSION OF PRODUCTS OF BLAST FURNACE MELTING OF TITANIUM-MAGNETITES AND METAL LOSSES IN SLAG 67-06 M04-69967
THE DISTRIBUTION OF LEAD BETWEEN THE METAL AND THE SLAG IN DRY COPPER REFINING 67-07 M03-74106
ON THE MELTING OF ALLOY STEELS IN THE BASIC OXYGEN LD FURNACE. PT. 2. THE PRODUCTION OF ALLOY STEELS IN A BASIC OXYGEN FURNACE 67-07 M04-72498
AUTOMATIC SLAG CONTROL IN THE BASIC OXYGEN PROCESSES 67-07 M04-73030
SLAG FORMING IN THE PRODUCTION OF STEEL FROM CARBON-SEMIPRODUCT IN 100-TON CONVERTERS
67-07 M04-73774
PRODUCING A MANGANESE-ALUMINUM ELECTRIC STEEL UNDER A LIME-ALUMINA SLAG 67-07 M04-73780
INFLUENCE OF SLAG ON THE THERMAL PROCESSES IN AN ELECTRIC FURNACE 67-07 M04-73781
INFLUENCE OF SLAG CONDITIONS ON BLAST-FURNACE OPERATION 67-07 M04-74130
SLAG FORMATION WHEN MELTING STEEL FROM A CARBONACEOUS SEMI-PRODUCT IN 100 TON CONVERTERS
67-09 M04-76537
MELTING MANGANESE—ALUMINIUM STEEL IN AN ELECTRIC FURNACE UNDER A LIME-ALUMINA SLAG
67-09 M04-76543
EFFECTS OF SLAG ON THERMAL PROCESSES IN ELECTRIC FURNACES 67-09 M04-76544
CONVERSION OF VANADIUM-CONTAINING IRONS TO VANADIUM SLAG AND SEMIPRODUCT IN OXYGEN AND AIR BLOWN CONVERTERS 67-09 M04-77074
SLAG FORMATION IN AN OXYGEN CONVERTER
67-09 M04-77266
DESULFURIZING CAPACITY OF CAF2-BASE SLAGS
67-09 M04-77269
CHANGE IN THE PHASE COMPOSITION OF SLAGS WHEN ALLOYING STAINLESS STEEL WITH TITANIUM
67-09 M04-77270
NEW MELTING TECHNOLOGY FOR IMPROVING THE PURITY OF SLAGS OF CRMN ALLOYED CASE-HARDENING STEELS AND CR, CRV ALLOYED HEAT TREATABLE STEELS
67-09 M04-77584
PRODUCING ROPE STEEL IN A LARGE FURNACE
67-10 M04-78422
INVESTIGATION OF THE REFINING PROCESS IN THE OXYGEN TOP BLOWING METHOD WITH HIGH-PIG IRON WITH VARYING MN CONTENTS 67-10 M04-79698
PRODUCTION OF ELECTRICAL ACID BESSEMER STEEL
67-10 M04-79820
SLAG CONDITIONS IN THE PRODUCTION OF FERROMANGANESE IN LARGE BLAST FURNACES 67-11 M04-80849
EFFECT OF THE ACIDITY OF FINISH SLAGS ON THE QUALITY OF RAIL STEEL 67-11 M04-80851
SLAG CONDITIONS IN OPENHEARTH STEELMAKING WITH OXYGEN LANCED TO FLAME AND BATH
67-11 M04-81404
SOME CHARACTERISTICS OF BLOWING VANADIUM IRON WITH OXYGEN WITH A FUEL ADDITIVE 67-12 M04-81708
INVESTIGATION OF THE REDUCING PERIOD IN ELECTROSMELTING OF KH18N10T STEEL
67-12 M04-81709
HYDROGEN AND OXYGEN IN THE BASIC OPENHEARTH METHOD--A CONTRIBUTION TO THE PHYSICS OF STEEL PRODUCTION 67-12 M04-81958
PRODUCING CABLE STEEL IN LARGE OPEN-HEARTH FURNACES
67-12 M04-83420
HOW MAGNESIUM AFFECTS HEAT INDEXES WITH REGARD TO FERROMANGANESE FROM LEAN ORES
67-12 M04-83469

SLAGS
FORMS OF THE BONDING OF SULFUR IN BLAST FURNACE SLAGS 67-01 M04-57918
EQUILIBRIUMS BETWEEN LIQUID IRON AND SATURATED SLAGS OF THE CAO-FEON-SIO2 SYSTEM WITH CONSIDERATION OF THE DISTRIBUTION OF SULFUR
67-01 M04-57919
POSSIBLE USE OF MINERALOGICAL ANALYSIS TO FIND HOW NONFERROUS METALS ARE LOST WITH SLAGS
67-02 M03-60085
STUDY TO ESTABLISH OPTIMUM CONDITIONS FOR BLOWING IN A BASIC CONVERTER MODEL WITH LATERAL BLAST
67-02 M04-59576
VISCOSITY AND FUSIBILITY OF MAGNESIUM SLAGS WITH LOW-SILICON CONTENTS 67-02 M04-60866
BLAST-FURNACE TRIALS ON THE SMELTING OF PREPARED BAKAL SIDERITES PRODUCING HIGH-MAGNESIA SLAGS
67-04 M02-66203
PRODUCTION OF FLUXED SINTER WITH AN IRON CONTENT OF OVER 61 PER CENT AND BLAST-FURNACE OPERATION ON SUCH SINTER 67-04 M04-67680
RELATIONSHIP OF ACTIVITY COEFFICIENT OF ZINC OXIDE TO SLAG COMPOSITION 67-05 M03-68225
EFFECT OF BASICITY OF BLAST-FURNACE SLAG ON THE SULFUR CONTENT OF THE IRON 67-05 M04-69073
POTENTIAL OF ELECTROSLAG REFINING
67-06 M04-71580
SEPARATION OF EMULSIFIED SLAG FROM MOLTEN STEEL IN THE BASIC OXYGEN LD PROCESS. PT. 8. USE OF RADIOISOTOPES IN STEELMAKING 67-06 M04-72287
THE PRODUCTION OF CEMENT FROM METALLURGICAL SLAGS
67-06 M05-71702
EFFECT OF LANCE NOZZLE CONDITION AND METHOD OF CHARGING FLUXES AS COOLANTS UPON THE SLAG IRON CONTENT. PT. 1. STUDY OF SLAG IRON CONTENT IN LOW-CARBON STEELMAKING BY THE BASIC OXYGEN LD PROCESS 67-07 M04-72445
STUDIES OF THE REMOVAL OF CHROMIUM FROM PIG IRON
67-07 M04-72893
COMPARATIVE ASSESSMENT OF THE PRODUCTION PERFORMANCE OF BLAST FURNACES
67-07 M04-73110
CUPOLA OPERATION, CHEMICAL ASPECTS, CARBURIZATION, MELTING LOSSES
67-07 M04-73488

SLAGS

ELECTROCORUNDUM FOR SYNTHETIC SLAGS MELTED FROM CONCENTRATED KAOLIN 67-07 M04-74073
DEVICE FOR FOAMING LIQUID B. F. AND FUEL SLAG 67-11 M04-81603
OXYGEN STEELMAKING IN THE BASIC OPENHEARTH FURNACE 67-12 M04-83074
PHASE COMPOSITION OF OXYGEN-CONVERTER PHOSPHATIC SLAGS OF LOW SILICA CONTENT 67-12 M14-82106
RELATIONSHIP BETWEEN THE STRUCTURES OF SOLID BLAST-FURNACE SLAGS AND THE PHYSICAL PROPERTIES OF THE MOLTEN SLAGS 67-12 M15-82406

SLAGS, ACTIVITY /CHEMICAL/
METALLURGICAL STUDIES ON OXYGEN STEEL MELTS TOP-BLOWN FROM HIGH-PHOSPHORUS PIG IRON 67-09 M04-76503

SLAGS, BENEFICIATION
USE OF TRACERS FOR DETERMINING TELLURIUM LOSSES DURING RECOVERY FROM SODA-TELLURIUM SLAGS 67-02 M03-59957
MELTING LOW-PHOSPHORUS SLAG FROM CARBONATE ORE CONCENTRATES 67-04 M02-66614
A ONE-STEP OPERATION FOR RECOVERY OF MANGANESE AS CHLORIDE FROM ORES AND SLAGS 67-08 M03-74673

SLAGS, CHEMICAL ANALYSIS
SLAG-METAL EQUILIBRIA IN TIN SMELTING 67-02 M03-60255
PRECISION COMPARISON OF FLUORESCENT X-RAY ANALYSIS BY THE LOOSE POWDER AND BRIQUET TECHNIQUES 67-02 M04-59122
PHASE COMPOSITION OF SLAGS OBTAINED DURING EXTRACTION OF FERROBORON 67-02 M04-60729
X-RAY FLUORESCENCE OF BLAST FURNACE SLAGS 67-02 M19-59167
APPLICATION OF OPTICAL EMISSION SPECTROMETRY TO THE ANALYSIS OF NONMETALLIC SPECIMENS IN THE IRON AND STEEL INDUSTRY 67-02 M19-61961
USE OF CORRELATION ANALYSIS AND COMPUTERS TO STUDY THE PROCESS OF TITANIUM SLAG SMELTING 67-04 M02-67531
THE SPECTROGRAPHIC ANALYSIS OF METALLURGICAL SLAGS AND ASHES 67-04 M19-66908
A RAPID METHOD FOR DETERMINING THE BASICITY OF BLAST FURNACE SLAGS 67-05 M19-69607
LABELLING OF METALLIC MATERIALS WITH RADIOACTIVE TRACER ELEMENTS 67-06 M19-70837
SLAG FORMATION DURING TOP-BLOWING OF OXYGEN WITH CRUSHED LIME ONTO PIG IRON RICH IN PHOSPHORUS 67-07 M04-73284
EFFECT OF TECHNOLOGICAL FACTORS ON IRON OXIDE CONTENT IN OXYGEN-CONVERTER SLAG 67-08 M04-74576
CONTRIBUTION TO THE VACUUM SPECTROMETRIC ANALYSIS OF NONMETALLIC SUBSTANCES IN STEEL WORKS LABORATORIES 67-08 M04-75508
A STUDY OF ATOMIC ABSORPTION SPECTROMETRY-- DETERMINATION OF MAGNESIUM AND CALCIUM IN SLAG AND CAST IRON 67-09 M19-77875
FLUORESCENT X-RAY ANALYSIS OF IRON ORES, REFRACTORY BRICKS AND SLAGS--ERRORS OF DETERMINATION 67-09 M19-77986
CONDUCTIOMETRIC DETERMINATION OF SLAG BASICITY 67-09 M19-78003
FACTORS AFFECTING DECARBURIZATION RATE AND OXYGEN CONTROL IN THE BASIC OH METHOD 67-10 M04-79097
RAPID ANALYSIS OF OPEN-HEARTH FURNACE SLAGS WITH A VACUUM SPECTROMETER. PT. 5. SPECTROMETRIC ANALYSIS OF NONMETALLIC MATERIALS IN THE STEEL PLANT LABORATORY 67-10 M19-79721
MICROSCOPIC STUDY OF THE CHANGE IN THE MINERAL COMPOSITIONS OF SLAGS DURING BIOLING OF STAINLESS STEEL IN THE COURSE OF MELTING 67-11 M13-81463
ON THE MINERAL COMPOSITION OF THE SLAG FROM ALUMINOTHERMAL MELTING OF FERROTITANIUM 67-11 M13-81631
FORMS OF EXISTENCE OF NICKEL IN DUMP SLAGS OF THE NICKEL INDUSTRY 67-11 M13-81632
PHASE COMPOSITION OF OPENHEARTH SLAGS FORMING DURING SCRAP-ORE CONVERSION OF LOW-MANGANESE IRONS 67-12 M04-81865

SLAGS, CHEMICAL ANALYSIS,
ROLE OF CHEMICAL ANALYSIS IN STEEL PRODUCTION 67-09 M19-76419

SLAGS, CHEMICAL COMPOSITION
THE DISTRIBUTION OF NITROGEN BETWEEN IRON AND SLAG IN BLAST FURNACES 67-09 M04-77708

SLAGS, CHEMICAL EQUILIBRIUM
PHASE EXCHANGE BETWEEN COPPER MATTE AND SLAG 67-08 M14-75692

SLAGS, CHLORINATION
CONSTRUCTING A MATHEMATICAL MODEL OF THE PROCESS OF CHLORINATING TITANIUM SLAGS IN A MELT 67-03 M02-65594

SLAGS, CORROSION
CORROSION OF MAGNESITE BRICK BY FAYALITE SLAGS, WITH AND WITHOUT ADDED CALCIUM OXIDE 67-11 M04-81464

SLAGS, CRYSTAL GROWTH
THE EFFECT OF FERROUS AND MANGANOUS OXIDES ON THE CRYSTALLIZATION PROPERTIES OF BLAST-FURNACE SLAGS IN CONNECTION WITH THEIR SWELLING 67-11 M14-81513

SLAGS, CRYSTALLIZATION
CRYSTALLIZATION PROPERTIES OF URAL BLAST FURNACE SLAGS 67-02 M14-59876

SLAGS, DENSITY
DENSITY OF LIQUID FLUXES FOR ELECTROSLAG REMELTING AND HEATING 67-06 M15-71848

SLAGS, DEOXIDIZING
PRODUCING ELECTROCORUNDUM FOR SYNTHETIC SLAGS FROM SINTERED KAOLIN 67-05 M04-69687

SLAGS, DIFFUSION
DIFFUSION OF OPEN HEARTH SLAGS IN BASIC REFRACTORIES 67-08 M14-75524
NITROGEN DIFFUSION IN ELECTRIC STEELMAKING SLAGS 67-12 M14-81702
METHOD OF INVESTIGATING THE KINETICS OF THE INTERACTION OF TWO LIQUID PHASES UNDER CONTROLLED CONVECTION CONDITIONS 67-12 M14-82105

SLAGS, ELECTRICAL PROPERTIES
PHYSICO-CHEMICAL PROPERTIES OF SLAGS OF THE CAO-AL2O3-MEXAY SYSTEM. PT. 1. 67-06 M15-70274

SLAGS, EXTRACTION
SELECTIVE REDUCTION OF ELEMENTS FROM A VANADIUM CONVERTER SLAG 67-11 M04-81407

SLAGS, FOAMING
COMPOSITION AND PROPERTIES OF STONE FROM ELECTRIC FURNACE SLAGS FROM THE COPPER AND NICKEL INDUSTRY 67-09 M04-76579

SLAGS, HEAT CONTENT
EFFECT OF MAGNETITE ON HEAT CONTENT OF CONVERTER SLAGS 67-02 M15-61541

SLAGS, MACHINING
THAT SPEED THING 67-07 M08-74218

SLAGS, MELTING
ON IRON OXIDES IN BASIC OPENHEARTH FURNACE SLAGS DURING THE OXIDATION AND ALLOYING OF LOW-CARBON STEEL 67-01 M04-57175
SLAG CONDITIONS DURING THE UPGRADING PERIOD IN A 600 TON OPENHEARTH FURNACE 67-02 M04-59510
CARBON BURNOUT FROM STEEL DROP AND EFFECT OF THIS FACTOR ON SLAG FROTHING 67-02 M04-62261
STUDY OF SLAG-METAL EQUILIBRIA BY LEVITATION MELTING.. APPLICATION TO THE FE-MN-O SYSTEM 67-04 M14-66984

SLAGS, OXIDATION
RATE OF OXIDATION OF DIVALENT IRON IN SLAG BY GASEOUS OXYGEN 67-02 M14-60728

SLAGS, PHASES /STATE OF MATTER/
PHASE COMPOSITION OF FLUORINE-BEARING SLAGS OF ELECTROSLAG REMELTING 67-03 M13-65777
CHANGE IN THE PHASE COMPOSITION OF SLAGS WHEN ALLOYING STAINLESS STEEL WITH TITANIUM 67-09 M04-77270
THE EFFECT OF MAGNESIUM OXIDE ON THE PHASE COMPOSITION AND STRUCTURE OF ALUMINOSILICATE SLAGS 67-10 M13-80062
SOME RESULTS OF A STUDY OF THE PHASE COMPOSITION AND STRUCTURE OF SLAGS FROM FUSION OF COPPER AND NICKEL 67-11 M13-81512
EQUILIBRIUM BETWEEN IRON MELTS AND SLAGS OF THE SYSTEM FEON-CAO-P2O5-MGO AT 1600 C 67-12 M04-83393

SLAGS, PHYSICAL PROPERTIES
METHOD OF ROUGH ESTIMATION OF THE SLAG VISCOSITY NEAR NEUTRALITY 67-01 M04-58307
PHYSICAL PROPERTIES OF HIGH-ALUMINA BLAST FURNACE SLAGS 67-02 M04-61737
STUDY OF THE VISCOSITY OF SYNTHETIC AND NATURAL MANGANESE-RICH SLAGS 67-04 M15-67437
THE VISCOSITY OF TITANIUM-BEARING SLAGS AND ITS EFFECT ON LOSS OF TITANIUM IN ALLOYING STAINLESS STEELS 67-06 M04-69971
SLAG FLOW RATES ON OXIDE MATERIALS 67-06 M15-70168
SURFACE TENSION OF MELTS OF SIO2-NA2O-B2O3-V2O5 AND

THEIR ADHESION TO STEEL 67-06 M15-71130
PHYSICO-CHEMICAL PROPERTIES OF SLAGS OF THE CAO-AL2O3-MEXAY SYSTEM. PT. 2 67-08 M15-74331
THE EFFECT OF ALUMINA, CALCIUM OXIDE AND ALKALI ON THE PHYSICO-CHEMICAL PROPERTIES OF IRON-MAGNESIA SILICAL MELTS 67-09 M15-77063
CERTAIN SINGULARITIES OF THE FLOW OF FERROUS SLAGS THROUGH COKE CHECKERS 67-09 M15-77856
DENSITY OF WHITE SYNTHETIC SLAGS 67-09 M15-77862
VISCOSITY OF BASIC ELECTRIC STEELMAKING SLAGS 67-10 M04-79314
PHYSICAL PROPERTIES OF HIGH-MAGNESIAL BLAST FURNACE SLAGS 67-10 M04-79318
CHANGES IN ELECTRICAL CONDUCTIVITY OF COPPER SMELTER SLAGS DURING THEIR PROCESSING 67-10 M15-79128
PHYSICOCHEMICAL PROPERTIES OF SLAG MELTS OBTAINED IN ELECTRIC FURNACES BY REDUCTION SMELTING OF LIQUID SLAGS AT THE SEVERONIKEL MILL 67-10 M15-80034
VISCOSITIES AND RESISTIVITIES OF MELTS OF THE SYSTEM MANGANOUS OXIDE-CALCIUM OXIDE SILICA WITH 10 PER CENT ALUMINA 67-10 M15-80064
SWELLING CAPACITIES OF NONFERROUS SLAGS 67-10 M15-80069
THE VISCOSITIES OF BLAST-FURNACE SYNTHETIC SLAGS AT REDUCED TEMPERATURES 67-10 M15-80096
THE DENSITY OF FUSED FLUXES USED FOR ELECTROSLAG REMELTING AND THE ELECTROSLAG HEATING OF INGOT FEEDER HEADS 67-11 M15-80880
THE VISCOSITY OF SYNTHETIC SLAGS OF THE CAO-MGO-SIO2-AL2O3 SYSTEM 67-11 M15-81152
STUDY OF THE PHYSICAL PROPERTIES OF BLAST FURNACE SLAGS DURING SMELTING WITH BAKAL SIDERITES 67-11 M15-81416

SLAGS, REACTIONS /CHEMICAL/
INVESTIGATION OF THE REACTIONS OF LIQUID HIGH-IRON --2-- OXIDE SLAGS WITH SOLID CARBON 67-01 M04-58447
THE SMELTING OF EGYTIAN ILMENITE ORES BY A COMBINATION MELTING AND CHLORINATING PROCESS 67-02 M02-60204
DISTRIBUTION OF SULPHUR AND OXYGEN BETWEEN IRON AND A LIME-ALUMINA SLAG DURING LEVITATION MELTING 67-02 M04-59877
ON THE ACTIVITY OF IRON OXIDE IN THE SILICA-SATURATED SLAGS 67-02 M04-61850
EFFECT OF ATMOSPHERE ON INTERACTION OF CONVERTER SLAGS WITH TAR-MAGNESITE REFRACTORY 67-03 M04-65909
CHLORINATION OF GRANULATED HIGH TI SLAGS IN A FLUID BED. PT. 2 67-04 M02-66866
DESULFURIZING PIG IRON VIA SOLID SLAG IN VACUUM 67-04 M04-66009
CRITICAL COMPARISON OF SLAG/METAL REACTIONS IN THE LD AND KALDO PROCESSES AT CONSETT 67-04 M04-67416
COMBINED PROCESSING OF ALUMOSILICATE SLAGS WITH NEPHELINE 67-05 M03-68229
INVESTIGATIONS INTO THE MECHANISM OF THE REACTIONS OF SULPHUR AND MANGANESE IN CARBON-SATURATED IRON UNDER A CAO-SIO2-AL2O3 SLAG 67-06 M14-70255
ON INTERFACIAL PROPERTIES BETWEEN MOLTEN SILVER, COPPER, NICKEL AND THESE BINARY ALLOYS AND MOLTEN SLAG 67-06 M14-70789
THE METALLURGY OF THE BASIC OXYGEN PROCESSES 67-07 M04-72892
DETERMINATION OF HYDROGEN IN STEELMAKING SLAGS 67-07 M04-72897
THE EFFECT OF THE MN CONTENT OF BLAST FURNACE SLAGS ON THE HYDRAULIC QUALITY OF THE FURNACE 67-08 M04-75506
ESTIMATION OF THE DEPHOSPHORIZING CAPACITY OF SUPEROXIDIZED SLAGS 67-08 M04-76230
THE CARBURIZATION OF IRON MELTS IN THE GRAPHITE CRUCIBLE, ANOTHER EXAMPLE OF THE PARTICULARITIES OF METALLURGICAL REACTIONS 67-10 M04-79057
DETERMINING THE RATE OF OXYGEN TRANSFER TO SLAG IN AN OPENHEARTH FURNACE 67-10 M04-79322
REDUCTION KINETICS IN TITANIFEROUS SLAGS 67-10 M04-79948
THE ACTIVITY OF IRON OXIDE IN SILICA-SATURATED SLAGS 67-11 M04-80796
RELATIONSHIP BETWEEN METAL CARBON CONTENT AND FERROUS OXIDES IN THE SLAG 67-11 M04-81403
ROLE OF SLAG IN SPONGE IRON-MAKING 67-11 M04-81639
REDUCTION OF SILICON FROM OXIDE MELTS BY THE CARBON PRESENT IN PIG IRON 67-11 M04-81642
CALCULATING THE END TEMPERATURE OF SWELLING 67-11 M14-81511
ON THE TRANSFER OF SULFUR FROM METAL TO SLAG 67-12 M04-81701

SLAGS, REDUCTION /CHEMICAL/
MANGANESE RECOVERY AS CHLORIDE FROM ORES AND SLAGS 67-06 M03-70859
INFLUENCE OF SURFACTANTS ON THE RATE OF OXIDE REDUCTION IN SLAG MELTS 67-08 M03-76238
RECOVERY OF VALUABLE METALS FROM SLAGS, LEACHED RESIDUES AND SCRAPS BY A WET OXIDATION METHOD 67-10 M03-78742

SLAGS, REFINING
REDUCTION ELECTROMELTING OF CONVERTER SLAGS FROM NICKEL PRODUCTION 67-02 M02-60562
PRODUCTION OF BALL BEARING STEEL IN ELECTRIC FURNACES OF VARIOUS CAPACITIES 67-02 M04-62144
ELECTROLYSIS OF DUMP SLAGS FROM COPPER SMELTING 67-03 M03-65576
DEGASIFICATION OF METAL WHILE BEING TREATED WITH SLAGS 67-04 M04-67869
USE OF AN ANALOG COMPUTER TO DEVELOP A SYSTEM FOR CONTROLLING THE CHLORINATION OF TI SLAGS IN MELT 67-05 M03-68980
RECOVERY OF VANADIUM FROM KACHKANARSK IRON CONVERTER SLAGS 67-06 M02-70950
A STUDY OF TIN AND LEAD DISTRIBUTION AMONG SMELTING PRODUCTS 67-06 M03-71346
METHOD OF VACUUMING METALS AND SIMULTANEOUSLY TREATING THEM WITH A SLAG COLUMN 67-06 M04-70147
CHARACTERISTICS OF WELDING OF STRUCTURAL STEEL REFINED IN A LADLE WITH SYNTHETIC SLAG 67-06 M11-71840
DETERMINATION AND CONTROL OF THE HYDROGEN CONTENT OF STEELMAKING SLAGS 67-07 M04-73008
TREATING CAST IRON WITH LIQUID SYNTHETIC SLAG 67-07 M06-74038
ANODIC REMOVAL OF SULFUR FROM MOLTEN SLAGS 67-08 M04-74322
EFFECT OF SLAG COMPOSITION ON THE TRANSFER RATE OF SULFUR AND SLAG VISCOSITY IN BLAST FURNACE 67-08 M04-75801
ELECTROTHERMAL EXTRACTION OF COPPER, LEAD AND IRON FROM SLAG DUMP FROM THE ALAVERDI COPPER CHEMICAL COMBINE 67-09 M03-77039
SURFACING AND ELIMINATION OF NONMETALLIC INCLUSIONS FROM LIQUID STEEL 67-10 M04-79715
SYNTHETIC SLAG TREATMENT FOR 38KHMYUA STEEL 67-10 M04-79823
WELDING STRUCTURAL STEEL WHICH HAS BEEN REFINED IN THE LADLE WITH MOLTEN SYNTHETIC SLAG 67-11 M11-80872

SLAGS, SORPTION
NITROGEN ABSORPTION AND DESORPTION BY LIME-ALUMINA SLAG 67-11 M14-81643

SLAGS, STATISTICAL ANALYSIS
USE OF STATISTICAL METHODS FOR PROCESSING DATA FROM ORE ELECTROSMELTING 67-05 M03-69531

SLAGS, STEEL MAKING
MAGNESIUM OXIDE IN BLAST FURNACE SLAGS 67-04 M04-67542
THE INFLUENCE AND ACTION OF SLAG FOAMING IN THE BLOWING OF LOW-PHOSPHORUS PIG IRON IN THE OXYGEN CONVERTER 67-08 M04-76286

SLAGS, SURFACE PROPERTIES
ADHESION OF FE-CR, FE-MO AND FE-W ALLOYS TO WHITE ELECTROMELTING SLAG 67-02 M15-61204
INTERFACIAL TENSION OF LIQUID STEEL ON THE BOUNDARY WITH WHITE SLAG IN ELECTROMELTING 67-04 M04-66080
INTERFACIAL TENSION OF PRODUCTS OF BLAST FURNACE MELTING OF TITANIUM-MAGNETITES AND METAL LOSSES IN SLAG 67-06 M04-69967
ADHESION OF NITRIDES TO STEEL AND SLAG 67-06 M15-70266

SLAGS, THERMAL PROPERTIES
MEASURING THE THERMAL CONDUCTIVITY OF SOLIDS AT ELEVATED TEMPERATURES UP TO THE MELTING POINT 67-01 M15-58226

SLAGS, VISCOSITY
SLAG VISCOSITY IN BLAST FURNACE MELTING OF TITANOMAGNETITES 67-08 M04-75865

SLEEVE BEARINGS
SEE ALSO JOURNAL BEARINGS
DOMESTIC PRODUCTION OF SLEEVES AND BUSHINGS FOR

SLEEVE BEARINGS
MILL BEARINGS 67-01 M20-57915
SLEEVE BEARINGS, CUTTING
DURABILITY OF CUTTERS WHEN CUTTING POROUS CERMET MATERIALS 67-02 M17-62133
SLEEVE BEARINGS, FRICTION
SELECTION OF LUBRICATION OILS FOR IRON-GRAPHITE SLIDING BEARINGS 67-02 M17-62129
SLEEVE BEARINGS, MECHANICAL PROPERTIES
THE CONTRIBUTION OF A METALLURGIST TO TRIBOLOGY 67-09 M17-77231
SLEEVES
CENTRIFUGAL CASTING OF IRON SLEEVES WITHOUT CHILLING 67-02 M06-61019
SLEEVES, CASTING
THE PROPERTIES OF ALUMINIUM ALLOY CASTINGS PRODUCED BY LIQUID-METAL STAMPING 67-09 M17-78084
SLEEVES, INSULATION
INSULATING RISER SLEEVES OFFER COST SAVINGS 67-07 M06-72823
SLEEVES, MACHINING
ONE-SHOT MACHINING 67-05 M08-68789
SLEEVES, MECHANICAL PROPERTIES
BEHAVIOR OF WELDED NIPPLES AND CONNECTING SLEEVES WHEN SUBMITTED TO ABRUPT TEMPERATURE CHANGES 67-07 M17-73711
SLICING
ELECTROLYTIC SLICING OF GERMANIUM.. CHARACTERISTICS OF THE --111--, AND --100-- N- AND P- TYPE SURFACES 67-05 M08-68780
PROPER FLUIDS MEAN BETTER QUARTZ GRIND 67-06 M08-72030
SLIDING CONTACTS
SEE ELECTRIC CONTACTS
SLIDING FRICTION
STUDY OF WEAR OF CASTING AL ALLOYS 67-04 M17-68064
WEAR AND FRICTION OF THE PLATINUM METALS. PERFORMANCE IN SLIDING CONTACTS 67-05 M17-69282
TEMPERATURE-RATE RELATIONSHIP OF COEFFICIENT OF DRY SLIDING FRICTION 67-05 M17-69603
THE SLIDING PROCESS AS A FRACTURE-INDUCING MECHANISM 67-06 M17-70633
WEAR PHENOMENA OF MACHINE SLIDE GUIDES 67-07 M17-72835
FRICTIONAL ANISOTROPY IN NONMETALLIC CRYSTALS 67-07 M17-73498
GEARS AND THEIR LUBRICATION 67-07 M17-73691
FRICTIONAL BEHAVIOR OF CERAMIC MATERIALS 67-07 M17-74053
THE INFLUENCE OF VARIOUS PHYSICAL PROPERTIES OF METALS ON THEIR FRICTION AND WEAR BEHAVIOR IN VACUUM 67-07 M17-74054
THE WEAR RESISTANCE OF CAST IRON 67-07 M17-74268
FUNDAMENTAL INVESTIGATION OF THE SLIDING FRICTION OF METALS WITH RADIOACTIVE TRACERS 67-08 M17-74921
FURTHER DEVELOPMENT OF THE EKELUND EQUATION FOR DEFORMATION RESISTANCE. PT. 1. 67-08 M17-75109
ABRASIVE WEAR CAUSED BY GRANULAR MINERAL SOLIDS 67-09 M17-76368
INFLUENCE OF OXIDE FILMS ON FRICTION AND WEAR DURING SLIDING 67-09 M17-76369
THE LUBRICATION OF STEEL BY ELECTROPLATED GOLD 67-10 M17-78550
SLIDING CHARACTERISTICS OF SILVER AGAINST IRON AS INFLUENCED BY OXYGEN CONCENTRATION 67-10 M17-78551
FRICTION CHARACTERISTICS IN VACUUM OF SINGLE AND POLYCRYSTALLINE ALUMINUM OXIDE IN CONTACT WITH THEMSELVES AND WITH VARIOUS METALS 67-10 M17-78552
AN ELECTRON-MICROSCOPIC STUDY OF ALUMINUM WEAR PARTICLES FORMED DURING SLIDING IN THE PRESENCE OF POLYGLYCOLS 67-10 M17-79110
THE COEFFICIENT OF FRICTION OF METALS AT SLIP 67-10 M17-79113
NEW HIGHLY WEAR RESISTANT ALLOYS FOR ROLL GUIDE UNITS OF ROD MILLS 67-12 M07-81871
FRICTIONAL AND WEAR RESISTANT BEHAVIOR OF A MACHINE TOOL SLIP-GUIDE 67-12 M17-82462
DYNAMIC FRICTION MEASURED FAST, ACCURATELY 67-12 M17-83175
SLIDING FRICTION, STRESS EFFECTS
THE FRICTION OF CLEAN CRYSTAL SURFACES 67-07 M17-73497
SLIDING FRICTION, TEMPERATURE EFFECTS
HIGH-TEMPERATURE BEARING MATERIALS 67-07 M20-74055
SLIME, BENEFICIATION
IMPROVING COPPER RECOVERY BY SAND SLIME SEPARATION 67-12 M02-82914
SLIME, REFINING
EXTRACTION OF SELENIUM AND TELLURIUM FROM SULFURIC ACID AND CELLULOSE-PAPER PRODUCTION SLIMES BY THE SULFIDIC METHOD 67-06 M03-72116
SLING CASTING
SEE CENTRIFUGAL CASTING
SLIP
SEE ALSO CROSS SLIP
DISLOCATION ARRANGEMENTS IN TANTALUM SINGLE CRYSTALS DEFORMED IN TENSION AT 373 K 67-02 M13-58960
REGARDING THE EFFECT OF SPECIMEN SHAPE ON THE SELECTION OF THE PRIMARY SLIP PLANE 67-02 M13-61824
INTERNAL SHEARING RESISTANCES IN THE THREE SHEAR THEORY OF PLASTICITY 67-02 M17-58824
THE SHAPE OF MECHANICAL HYSTERESIS LOOP, ITS DEFORMATION DUE TO STRESS REPETITION AND RESULTING INCREASE IN FLOW STRESS. PT. 2. THEORY FOR TORSION 67-02 M17-58828
MICROHARDNESS ANISOTROPY, SLIP, AND TWINNING IN MO2C SINGLE CRYSTALS 67-02 M17-59437
THE OPERATIVE SLIP SYSTEM AND GENERAL PLASTICITY OF NIAL. PT. 2 67-02 M17-60640
DEVELOPMENT OF SLIP BANDS DURING FATIGUE TESTING OF STEEL SPECIMENS 67-02 M17-61750
ELECTRON MICROSCOPIC SURFACE AND TRANSMISSION INVESTIGATIONS OF IRON SINGLE CRYSTALS AND THE INFLUENCE OF THE ORIENTATION ON THE WORK-HARDENING BEHAVIOR 67-03 M13-65218
CURRENT RESEARCH AT NUCLEAR METALS ON HIGH-PURITY BERYLLIUM 67-03 M13-65272
DEFORMATION MECHANISMS IN TITANIUM AT LOW TEMPERATURES 67-03 M17-65084
CHANGE OF THE DEFORMATION MECHANISM --SLIPTWINNING-- IN POLYCRYSTALLINE ALPHA-IRON 67-03 M17-65229
THE PLASTIC BEHAVIOR OF BERYLLIUM AND SOME OTHER METALS 67-03 M17-65236
EFFECT OF PURITY ON TENSILE DEFORMATION IN SINGLE CRYSTALS 67-03 M17-65266
COMPRESSION OF BERYLLIUM PARALLEL TO THE C-AXIS 67-03 M17-65267
MICROSTRAIN COMPRESSION OF A BERYLLIUM, 4.37 PER CENT COPPER ALLOY PARALLEL TO THE C-AXIS 67-03 M17-65268
CONTRIBUTION TO THE STUDY OF THE ACTIVATION OF PRISMATIC SLIP IN BERYLLIUM 67-03 M17-65269
THE CRITICAL SECTION ANGLE IN ROLLING WIDE STRIPS 67-04 M07-66616
SLIP BAND CONTINUITY ACROSS GRAIN BOUNDARIES IN ALUMINUM 67-04 M13-66053
ON DISLOCATIONS ETCHED IN DEFORMED CADMIUM SINGLE CRYSTALS 67-04 M13-66059
SOME MICROSTRUCTURAL OBSERVATIONS ON THE DEFORMATION AND FRACTURE CHARACTERISTICS OF A NICKEL-BASE ALLOY IN STATIC CREEP 67-04 M13-66946
VARIOUS CONCEPTS OF MICROCRACKS 67-04 M17-66896
A DEFORMATION TWIN KINKED AT AN ANGLE OF 120 DEGREES OBSERVED IN ALPHA-IRON 67-04 M17-67485
ORIENTATION DEPENDENCE OF YIELD STRENGTH IN IRON ALLOY SINGLE CRYSTALS 67-04 M17-67549
KINKING IN MGO SINGLE CRYSTALS UNDER HIGH CONFINING PRESSURE 67-05 M13-68295
X-RAY DIFFRACTION MICROSCOPY TECHNIQUE FOR THE STUDY OF AL SINGLE CRYSTALS 67-05 M14-68533
CONTRIBUTION TO THE STUDY OF GRAIN ORIENTATION IN COLUMNS OF POWDER AND SINTERED PARTS UNDER THE EFFECT OF INTERMEDIATE LAYERS 67-06 M09-71754
INFLUENCE OF ULTRASONIC VIBRATIONS ON MICROSTRUCTURE OF ARMCO IRON 67-06 M13-70059
ON THE DIRECTION OF SLIP BANDS IN UNIDIRECTIONAL EXTENSION OF POLYCRYSTALLINE COPPER AND ALUMINUM 67-06 M13-70156
A METHOD FOR PRODUCING ELECTRON MICROGRAPHS OF SLIP STEPS ON CYLINDRICAL METAL SINGLE CRYSTALS 67-06 M13-70247
BASAL AND PRISMATIC SLIP IN HCP CRYSTALS 67-06 M13-71974

SLIP AND THE CONCEPTION OF SPLITTING OF DISLOCATIONS IN BCC METALS 67-06 M14-71522
THE DEFORMATION BEHAVIOR OF ISOAXIAL BICRYSTALS OF FE-3 PER CENT SI 67-06 M14-71966
STRESS-INDUCED MOVEMENT OF TWIN BOUNDARIES IN ZINC 67-06 M14-72225
THE INTERACTION BETWEEN AN ELASTIC CRACK AND A SLIP BAND WITH SPECIAL REFERENCE TO BRITTLE FRACTURE STRENGTH OF METALS 67-06 M17-70704
AN EXPERIMENTAL STUDY OF THE DOUBLE SLIP DEFORMATION HYPOTHESIS FOR FACE-CENTERED CUBIC SINGLE CRYSTALS 67-06 M17-71276
APPLICATION OF ANISOTROPIC ELASTICITY THEORY TO THE CHOICE OF PRIMARY SLIP SYSTEMS IN HCP METAL CRYSTALS 67-06 M17-71277
A CRITICAL REVIEW OF THE PEIERLS MECHANISM 67-06 M17-71524
SLIP PLANES IN FE-3 PER CENT SI SINGLE CRYSTALS DEFORMED AT 77 K 67-06 M17-71526
MECHANICAL PROPERTIES OF SOME TANTALUM ALLOYS 67-06 M17-71528
PLASTIC ANISOTROPY OF TANTALUM, NIOBIUM, AND MOLYBDENUM 67-06 M17-71530
ORIENTATION DEPENDENCE OF YIELD IN BODY-CENTERED CUBIC METALS 67-06 M17-71531
SLIP BEHAVIOR IN COPPER CRYSTALS PREVIOUSLY DEFORMED ON ANOTHER SLIP SYSTEM 67-07 M13-73058
THE EFFECT OF SOLUTE ON SLIP AND MECHANICAL TWINNING IN IRON ALLOYS 67-07 M13-73060
DISLOCATION DENSITY AND LOCAL SLIP IN GERMANIUM SINGLE CRYSTALS 67-07 M13-73928
EFFECT OF INITIAL DISLOCATION DENSITY ON THE STRESS-STRAIN CURVE AND ON SURFACE INDICATION OF SLIP IN COPPER 67-07 M17-73059
FATIGUE STUDIES OF SINGLE CRYSTAL BERYLLIUM 67-07 M17-73743
DIRECT OBSERVATION OF THE MULTIPLICATION OF DISLOCATIONS IN THIN FOILS OF ALUMINIUM-BASED ALLOYS 67-08 M13-74420
TOPOLOGY OF SURFACE GRAINS AFTER ANNEALING OR CREEP 67-08 M13-76207
EVOLUTION OF FOLDS DURING HOT TENSILE STRESSING OF LARGE AL CRYSTALS 67-08 M13-76218
TENSILE DEFORMATION IN IRON SINGLE CRYSTAL PLATES OBSERVED BY THE DIVERGENT X-RAY METHOD 67-08 M17-74603
DISLOCATION DAMPING IN ALUMINUM AT HIGH STRAIN RATES 67-08 M17-75127
SLIP IN ALPHA-PLUTONIUM 67-09 M13-76332
EXPERIMENTS ON THE DEFORMATION OF NIOBIUM SINGLE CRYSTALS. PT. 2. ELECTRON MICROSCOPE STUDY OF DISLOCATION STRUCTURES 67-09 M13-76586
DISLOCATION DISTRIBUTIONS DURING STAGE I DEFORMATION OF SILVER SINGLE CRYSTALS 67-09 M13-76587
STRESS FIELDS DUE TO DISLOCATION PILE-UPS IN HEXAGONAL METALS DURING ANISOTROPIC TREATMENT 67-09 M13-76794
DEVELOPMENT OF SLIP BANDS ON THE STEEL SURFACE DURING DATIGUE TESTING 67-09 M17-77285
THE DEFORMATION BEHAVIOR OF NON-ISO-AXIAL BICRYSTALS OF FE-3 PER CENT SI 67-09 M17-77920
INTERPLANAR ANGLES AND STANDARD PROJECTIONS OF TITANIUM 67-10 M13-78672
EFFECT OF ULTRASONIC VIBRATIONS ON THE MICROSTRUCTURE OF ARMCO IRON 67-10 M13-78805
THE COEFFICIENT OF FRICTION OF METALS AT SLIP 67-10 M17-79113
THE DEVELOPMENT OF SLIP BAND STEPS ON THE SURFACE OF ZINC SINGLE CRYSTALS 67-11 M13-80735
DEFORMATIONS DURING INHIBITION OF TWINS BY BARRIERS 67-11 M13-81166
STABILITY OF THE --110-- --112-- ORIENTATION IN SILVER DEFORMED BY PLANE STRAIN COMPRESSION 67-11 M13-81541
PLASTIC DEFORMATION OF TANTALUM SINGLE CRYSTALS. PT. 1. THE SURFACE MORPHOLOGY OF YIELD 67-11 M17-80312
THE EFFECT OF THE TYPE OF SPLITTING OF SCREW DISLOCATIONS ON THE SLIP GEOMETRY IN BCC METALS 67-12 M13-82003
MICROSTRUCTURAL FEATURES OF FATIGUE FRACTURE OF COMMERCIAL IRON IN THE DYNAMIC STRAIN AGING TEMPERATURE RANGE 67-12 M13-82338
THE PLASTIC DEFORMATION OF SINGLE CRYSTALS OF VANADIUM AT 298 AND 77 K 67-12 M13-82717
PLASTIC DEFORMATION OF SINGLE-CRYSTAL NIAL 67-12 M17-82755
PLASTICITY OF MAGNESIUM CRYSTALS 67-12 M17-82763
THE STRESS SENSITIVITY OF CREEP OF LEAD AT LOW STRESSES 67-12 M17-82870
DEFORMATION MECHANISMS IN HEXAGONAL METALS WITH A C..A RATIO ABOVE 1.633 67-12 M17-83499

SLIP, IMPURITY EFFECTS
THE EFFECT OF INTERSTITIAL IMPURITIES UPON CROSS-SLIP IN IRON 67-01 M13-57940

SLIP, RADIATION EFFECTS
THE EFFECT OF IRRADIATION TEMPERATURE ON STRENGTH AND MICROSTRUCTURE OF STAINLESS STEEL 67-09 M17-77471
DEFORMATION OF NEUTRON-IRRADIATED COPPER SINGLE CRYSTALS 67-10 M14-78909

SLIP, STRESS EFFECTS
PLASTIC FLOW OF MARTENSITE 67-09 M13-76594
EXPERIMENTS ON THE DEFORMATION OF NIOBIUM SINGLE CRYSTALS. PT. 1. STRESS VERSUS STRAIN CURVES AND SLIP SYSTEMS IN COMPRESSION AND TENSION 67-09 M17-76585
DISTURBANCE OF THE METAL STRUCTURE IN THE SLIP BANDS BY FATIGUE 67-10 M13-78710
EFFECTS OF STRESS ON THE DEFORMATION ASSOCIATED WITH SLIP ALONG THE GRAIN BOUNDARIES DURING CREEP AT 600 C. IN AN IRON ALLOY CONTAINING 3 PER CENT SI 67-12 M13-82485
MECHANICAL PROPERTIES OF IRON SINGLE CRYSTALS WITH VARYING ORIENTATIONS AS A FUNCTION OF TEMPERATURE 67-12 M13-82596

SLIP CASTING
PRECISION CASTING FUSED SILICA RADOMES 67-01 M06-58792
EFFECT OF CERTAIN FACTORS ON THE RHEOLOGICAL AND TECHNOLOGICAL PROPERTIES OF ALUMINA DROSS 67-02 M06-59780
WHATS NEW IN POWDER METALLURGY 67-02 M09-60249
INFLUENCE OF THE GRINDING METHOD OF ALUMINA ON THE PROPERTIES OF SLURRY AND THE PROPERTIES OF SLIP CAST SINTERED PARTS 67-02 M09-60598
SOME METHODS OF MOLDING AND SINTERING CARBIDES 67-06 M09-70778
SLIP CASTING OF MOLYBDENUM DISILICIDE 67-06 M09-70958
THE PUSH FOR PERMEABILITY 67-06 M09-72316
THE COMPACTION OF METAL POWDERS 67-07 M09-73859
SLIP CASTING OF METAL POWDERS 67-07 M09-73871
NEW METHODS FOR THE CONSOLIDATION OF METAL POWDERS. V 1. PERSPECTIVES IN POWDER METALLURGY 67-07 M09-73873
PRODUCTION OF ROOF REFRACTORIES USING MAGNESITE-CHROMITE CLINKER 67-12 M05-81738
CERAMICS FOR ULTRAHIGH TEMPERATURES 67-12 M05-82467
SLIP CASTING OF NIOBIUM CARBIDE 67-12 M09-82205

SLIP CASTING, POWDER METALLURGY
SLIP CASTING OF MOLYBDENUM PARTS 67-12 M09-83551

SLIP RINGS, MECHANICAL PROPERTIES
ELECTRODEPOSITION OF RHODIUM AND RUTHENIUM FOR SLIP-RING SURFACES 67-05 M12-68826

SLIPPAGE
SLIP IN CROSS-HELICAL ROLLING. PT. 1 67-02 M07-60065
THE SLIP LINE FIELD IN ROLLING OF THICK STRIP 67-04 M07-67610
EQUATIONS FOR CALCULATING FORWARD SLIP AND EXPERIMENTAL VERIFICATION IN COLD ROLLING STRIP WITH TENSION 67-04 M07-67612
INVESTIGATION OF METAL SLIP DURING ROLLING IN CHANNEL PASSES 67-05 M07-68330
SINGULARITIES OF THE MECHANISM OF THE HIGH-SPEED DEFORMATION OF COPPER 67-06 M13-72356
INVESTIGATING METAL SLIP IN ROLLING IN CHANNEL PASSES 67-07 M07-72858

SLITTING
SLITTING EXPLAINED 67-02 M08-60111
SHEARING LINE IS A SPACE SAVER 67-05 M08-69101
COLD STRIP SLITTING LINE 67-06 M07-71415
GAS-BORNE ABRASIVE CUTS BRITTLE MATERIALS 67-06 M08-71205
THE PRODUCTION AND APPLICATIONS OF SLIP STRIP 67-07 M07-74114

SLOT GRINDING
HIGH PRECISION ABRASIVE MACHINING 67-06 M08-70555

SLOT GRINDING

SLOT GRINDING, AUTOMATION
HIGH-PRECISION ABRASIVE MACHINING 67-10 M08-78800
SLOT MILLING
PRODUCTION BROACHING OF EXTERNAL SURFACES 67-10 M08-79513
SLOT MILLING, AUTOMATION
TAPE CONTROLLED ELECTROEROSION 67-10 M08-79051
SLURRIES
SLURRY ABRASION 67-12 M17-82916
SLURRIES, BENEFICIATION
METHOD FOR THE BENEFICIATION OF SLURRIES OF RARE, NONFERROUS AND PRECIOUS METAL ORES 67-02 M02-58886
AUTOMATIC PULP DENSITY MONITORING WITH THE RRP-605 ISOTOPE RELAY 67-06 M19-71342
SLURRIES, COATINGS
NICKEL SLURRY COATS STEEL STRIP 67-08 M12-76179
SLURRY-COAT AIMS AT FABRICATORS 67-12 M12-83135
SLURRIES, EXTRACTION
PILOT PLANT FOR EXTRACTING NOBLE METALS FROM SLIME 67-06 M03-71131
SLURRIES, REFINING
EXTRACTION OF SELENIUM AND TELLURIUM FROM SULFURIC ACID AND CELLULOSE-PAPER PRODUCTION SLIMES BY THE SULFIDIC METHOD 67-06 M03-72116
SMALL TOOLS
SEE HAND TOOLS
SMEARING
SEE GALLING
SMELTING
AT WORLDS NONFERROUS PLANTS --OXYGEN SMELTING GETS MAJOR PUSH 67-01 M03-58573
ON THE MELTING TECHNIQUES OF THE HIGH-QUALITY SPECIAL STEEL SMELTING 67-01 M04-58243
THE SMELTING OF EGYTIAN ILMENITE ORES BY A COMBINATION MELTING AND CHLORINATING PROCESS 67-02 M02-60204
PROCESSING URALS COPPER-ZINC CONCENTRATES IN CONVERTERS 67-02 M03-59548
INCREASED PRODUCTIVITY AND EFFICIENCY IN THE OPERATION OF REVERBERATORY FURNACES 67-02 M03-59700
CADMIUM DISTRIBUTION IN IMPROVED PYRITIC SMELTING AND FURTHER TREATMENT OF PRODUCTS 67-02 M03-59959
THERMODYNAMIC ANALYSIS OF CERTAIN REACTIONS IN CONVERTER BLOWING OF COPPER MATTES WITH FLUXES MIXED WITH LIMESTONE 67-02 M03-60080
METHODS OF INCREASING THE DEGREE OF DISTILLATION OF ZINC BY OXYGEN SUSPENSION MELTING OF COPPER-ZINC CONCENTRATES 67-02 M03-60081
POSSIBLE USE OF MINERALOGICAL ANALYSIS TO FIND HOW NONFERROUS METALS ARE LOST WITH SLAGS 67-02 M03-60085
HOW ALUMINA AFFECTS COPPER MELT SLAGS 67-02 M03-60090
SLAG-METAL EQUILIBRIA IN TIN SMELTING 67-02 M03-60255
FUMING TIN-BEARING RAW MATERIAL 67-02 M03-61278
CAUSES OF THE FORMATION OF FINELY DISPERSED SUSPENSIONS OF METALS AND MATTE IN SLAG MELTS 67-02 M03-61608
IMPROVEMENT OF PRACTICES FOR SHIFTING BLAST FURNACE OPERATION TO SMELTING FERROSILICON 67-02 M04-58852
FLASH SMELTING OF LEAD CONCENTRATES 67-03 M03-65006
THE ELECTRON BOMBARDMENT SMELTING FURNACE OF LA CIE PECHINEY 67-03 M03-65194
SMELTING MIXED COPPER FEED IN CHILE 67-03 M03-65466
BLAST-FURNACE TRIALS ON THE SMELTING OF PREPARED BAKAL SIDERITES PRODUCING HIGH-MAGNESIA SLAGS 67-04 M02-66203
NONFERROUS METALS AND THE CHEMICAL ENGINEER. PT. 3. COPPER 67-04 M02-66587
SEPARATING FLUORINE TO THE GAS PHASE DURING OXYGEN-SUSPENSION SMELTING OF COPPER CONCENTRATES 67-04 M02-67520
EMPLOYING AN AIR-OXYGEN BLAST IN REVERBATORY SMELTING OF COPPER CONCENTRATES 67-04 M03-67519
TRENDS AND PROSPECTS IN THE DEVELOPMENT OF THE TIN SMELTING PROCESS 67-04 M03-67523
CONSIDERATIONS ON THE PYROMETALLURGY OF CU 67-04 M03-67745
PROBLEMS OF THE SMELTING OF SIDERITE 67-05 M04-69324
ADAPTATION OF THE PEDERSEN PROCESS TO THE FERRUGINOUS BAUXITES OF THE PACIFIC NORTHWEST 67-06 M02-72082
LABORATORY RESEARCH INTO THE SMELTING OF POLISH COPPER CONCENTRATES TO MATTE 67-06 M03-71874
THE SMELTING OF CERTAIN COPPER ALLOYS 67-06 M03-71875
SMELTING SILICON FERROALLOYS 67-06 M04-70731
ELECTRIC SMELTING OF PIG IRON FROM CHOKODAM-BULAK ORES 67-06 M04-71102
AUSTRALIANS TRY CONTINUOUS COPPERMAKING PROCESS 67-07 M03-72537
LIFE OF DINAS REFRACTORIES IN COPPER-REFINING FURNACES 67-07 M03-72779
THE ONAHAMA COPPER SMELTER.. HOW JAPANS NEW COPPER SMELTER TREATS KUROKO AND OTHER ORES 67-07 M03-73213
REDUCTION MECHANISM OF TIN CONCENTRATE AND SLAG 67-07 M03-73412
HISTORICAL DEVELOPMENT OF ALUMINUM PRODUCTION AND APPLICATION 67-08 M01-74814
SMELTING METALS CONTINUOUSLY 67-08 M03-74365
SLIMES TREATMENT AND SILVER REFINING OPERATIONS BY THE CERRO DE PASCO CORPORATION AT LA OROYA, PERU 67-08 M03-75619
COMPLEX PROCESSING OF ALUMINOUS IRON ORES 67-08 M04-75144
QUALITY FEATURES AND SMELTING PROPERTIES OF PELLETS 67-09 M02-78048
ON THE THEORY OF FORMATION OF LIQUID PHASES IN PRACTICAL CONDITIONS OF PYROMETALLURGICAL MANUFACTURE OF COPPER 67-09 M03-76577
SPECIAL FEATURES OF SMELTING ALUMINUM IN CHANNEL INDUCTION FURNACES 67-09 M03-76873
CYCLONE SMELTING COPPER CONCENTRATES IN A HORIZONTAL CYCLONE FURNACE 67-09 M03-76879
DISTRIBUTION OF GOLD AND SILVER IN LEAD SMELTING PRODUCTS 67-09 M03-77111
HIGH-TITANIA SLAG SMELTING OF NEW ZEALAND TITANIUM ORES 67-09 M03-78269
PARTIAL COMBUSTION OF FUEL OIL WITH OXYGEN AND APPLICATION TO SMELTING IRON ORE 67-09 M04-76475
GASES IN CONVERTER STEEL SMELTED WITH STEAM-OXYGEN AND OXYGEN-CARBON MONOXIDE BLOWS 67-09 M04-76885
THE WORCRA PROCESSES FOR CONTINUOUS SMELTING AND REFINING 67-10 M01-78771
ELECTRIC SMELTING OF COMPLEX LEAD-ZINC SINTER 67-10 M03-78636
CONVERSION OF NICKEL CARBONATE INTO METALLIC NICKEL 67-10 M03-79852
SMELTING FERROSILICON IN LARGE BLAST FURNACES. --REPORT FROM THE NIZHNE-TAGIL PLANTS GROUP-- 67-10 M04-79825
LOSSES OF MANGANESE DURING VACUUM SMELTING OF FE-MN ALLOYS 67-10 M04-79867
REDUCING LUMP CHROMIUM ORES IN SMELTING CARBONACEOUS FERROCHROME 67-10 M04-80080
RECENT CHANGES IN REVERBATORY SMELTING PRACTICE AT SOVIET COPPER SMELTERS 67-12 M02-83087
AN INVESTIGATION OF RESIDUAL SOLIDIFIED CRUST FORMING ON REVERBATORY FURNACE HEARTHS 67-12 M02-83090
SMELTING, AUTOMATION
MATHEMATICAL MODELING OF THE PROCESSES AT COPPER SMELTING MILL 67-07 M03-73413
TODAYS TREND TOWARDS LARGER ELECTRIC SMELTING FURNACES--SOME FEATURES IN DESIGN AND OPERATION 67-08 M04-75316
AUTOMATION IN ZINC SMELTING 67-09 M03-77001
SMELTING FURNACES
SEE METALLURGICAL FURNACES
SMOKELESS POWDER
SEE PROPELLANTS
SMOKESTACKS
SEE CHIMNEYS
SMOOTHNESS
SEE ROUGHNESS
SMOTHERED ARC FURNACES
SEE SUBMERGED ARC ELECTRIC FURNACES
SNAP JOINTS
SEE CONNECTORS
SNOEK DAMPING
SEE SNOEK EFFECT
SNOEK EFFECT

INTERNAL FRICTION IN N-ALPHA FE SOLID SOLUTIONS WITH DIFFERENT PURITY AND GRAIN SIZE 67-02 M17-61599

SUBSTITUTIONAL-INTERSTITIAL INTERACTION AND THE ANOMALOUS SNOEK PEAK IN FE-V-N ALLOYS 67-03 M17-65875

THE MECHANICAL DAMPING OF IRON FROM ROOM TEMPERATURE TO 400 C. AT 7 MEGACYCLES/SEC 67-04 M17-66051

SNOEK PEAKS AND THEIR STABILITY IN ANNEALED AND DEFORMED TANTALUM 67-04 M17-66162

ON THE RELAXATION STRENGTH OF THE SNOEK PEAK 67-04 M17-66533

TORSION PENDULUM FOR THE MEASUREMENT OF INTERNAL FRICTION IN BULK SAMPLES OF STEEL AT LOW FREQUENCIES 67-04 M17-67192

MEASUREMENT OF SNOEK DAMPING IN SHEET SPECIMENS 67-05 M17-68656

GRAIN BOUNDARY SEGREGATION AND THE COLD-WORK PEAK IN IRON CONTAINING CARBON OR NITROGEN 67-06 M14-71603

ADDITIONAL SNOEK PEAK DUE TO CARBON IN FE-V-C ALLOYS 67-06 M17-71549

COLD WORK INTERNAL FRICTION PEAK IN IRON 67-07 M17-73913

KINETICS OF SNOEK ORDERING AND COTTRELL ATMOSPHERE FORMATION IN FE-N SINGLE CRYSTALS 67-07 M17-73923

THE CRYSTALLOGRAPHIC ORIENTATION DEPENDENCE OF SNOEK-TYPE INTERNAL FRICTION PEAKS OF AN FE-SI ALLOY 67-08 M17-75935

DIFFUSION OF HYDROGEN IN ALPHA-IRON AT ABOUT 120 K 67-09 M14-77934

DISCERNING THE QUALITY CHARACTERISTICS OF LOW-CARBON STEELS BY DAMPING MEASUREMENTS 67-09 M17-77353

SNOEK EFFECT, COMPOSITION EFFECTS

SNOEK PEAKS IN TERNARY IRON-NITROGEN ALLOYS 67-06 M17-71960

SNOEK LOCKING

SEE SNOEK EFFECT

SNOEK PEAK

SEE SNOEK EFFECT

SOAKING

DIFFUSION OF MASSIVE CARBIDES IN BEARING STEELS BY SOAKING 67-04 M14-67183

OPTIMUM CONDITIONS FOR HEATING INGOTS OF STAINLESS STEEL WITH 13 PER CENT CHROMIUM 67-06 M10-70101

EFFECT OF RAPID HEAT TREATING ON MECHANICAL PROPERTIES OF LOW-CARBON STEEL SHEET 67-10 M10-79770

DECREASING METAL LOSSES IN RECUPERATIVE SOAKING PITS WITH CENTRAL HEATING 67-11 M10-81667

ELECTRICAL MODEL OF STEEL INGOT SOLIDIFICATION AND HEATING PROCESSES 67-12 M04-83472

SOAKING PITS

ELECTROTHERMAL MODELING OF THE PROCESS OF HARDENING AND HEATING RIMMED STEEL INGOTS IN SOAKING PITS 67-04 M04-67621

IMPALCO WORKS IN SOUTH WALES HAS 6 MILLION POUNDS UP-TO-DATE LOOK 67-04 M07-66136

THE CHARGING OF SEMIKILLED STEEL INGOTS IN THE UPSIDE DOWN POSITION IN THE SOAKING PITS 67-06 M04-72292

OPERATION AND MAINTENANCE OF ONE-WAY TOP-FIRED SOAKING PITS AT SPENCER WORKS 67-06 M07-70804

OPTIMIZATION OF THE SOAKING PIT PROCESS 67-12 M10-83171

A GRAPHICAL ANALYSIS OF THE RATE OF SCALING UNDER VARYING CONDITIONS OF TEMPERATURE AND TIME 67-12 M10-83172

SOAKING PITS, AUTOMATIC CONTROL

AUTOMATION OF THE HEAT CAMPAIGN OF REGENERATIVE SOAKING PITS 67-07 M10-73793

AUTOMATION OF THERMAL CONDITIONS OF REGENERATIVE SOAKING PITS 67-09 M10-76556

SOAKING PITS, DESIGN

IMPROVING REGENERATIVE SOAKING PITS 67-06 M10-71269

IMPROVING REGENERATIVE SOAKING PITS 67-08 M10-75738

SOAKING PITS, THERMAL MEASUREMENTS

DEGREE OF ERROR IN MEASURING TEMPERATURE IN AUTOMATICALLY CONTROLLED HEATING 67-04 M10-67623

SODA ASH

SEE SODIUM CARBONATE

SODIUM, ALLOYING ADDITIVE

REACTION RATE OF SULFUR WITH LEAD 67-05 M14-69476

EFFECT OF CHLORIDE SALTS OF ALKALI AND ALKALI-EARTH ELEMENTS ON THE PROPERTIES OF 15KH1M1FL STEEL 67-12 M04-83028

ELECTRONIC PROPERTIES OF SODIUM-DOPED CARBONS P 1621-1624 67-12 M16-83195

SODIUM, ATOMIC PROPERTIES

COMMENTS ON PAPERS RESULTING FROM HUME-ROTHERYS NOTE-1965 67-06 M16-71970

MORSE-POTENTIAL EVALUATION OF SECOND- AND THIRD-ORDER ELASTIC CONSTANTS OF SOME CUBIC METALS 67-09 M16-77156

SODIUM, BAND THEORY

EFFECT OF ELECTRON-HOLE SCATTERING RESONANCE ON X-RAY EMISSION SPECTRUM 67-09 M16-77157

SODIUM, BINARY SYSTEMS

PRACTICE OF THERMODYNAMIC ANALYSIS OF BINARY SYSTEMS OF METALS WITH INTERMETALLIC BONDS 67-04 M13-67451

LIQUID-VAPOR PHASE DIAGRAM AND THERMODYNAMICS OF THE SODIUM-BISMUTH SYSTEM 67-06 M14-72196

THE REACTIVITY OF LIQUID METALS 67-08 M14-75555

SODIUM, CORROSION

THE NATURE OF THE CORROSIVE ACTION OF OXYGEN-BEARING LIQUID SODIUM UPON STEEL 67-12 M18-82439

SODIUM, CORROSION ENVIRONMENTS

LIQUID SODIUM TECHNOLOGY DEVELOPMENT. PT. 1. TEST LOOPS, PURIFICATION METHODS AND CORROSION TESTS 67-05 M18-68647

SODIUM, DIFFUSION

CALCULATION OF DIFFUSION PARAMETERS 67-02 M14-61918

DIFFUSION OF ALKALI METALS IN MOLYBDENUM AND COLUMBIUM 67-07 M14-74189

THE CONTROLLING STAGE OF CARBON TRANSPORT IN THE CARBON STEEL-SODIUM MELT-CHROMIUM-NICKEL STEEL SYSTEM 67-11 M14-80581

STUDY OF THE DIFFUSION OF SODIUM AND POTASSIUM IN IRON 67-11 M14-80582

SODIUM, ELECTRICAL PROPERTIES

THE TEMPERATURE DEPENDENCE OF THE ELECTRICAL RESISTANCE OF ALKALI METALS AT LOW TEMPERATURES 67-01 M16-58399

THE ELECTRICAL RESISTANCE OF SILVER, COPPER, ALUMINUM, ZINC AND SODIUM BETWEEN 4 AND 298 K. DEPENDS ON THE IMPURITIES 67-02 M15-59906

THE CONTRIBUTION TO DIELECTRIC CONSTANT FROM INTERBAND TRANSITION IN METALS 67-02 M16-59061

SODIUM, EXTRACTION

CARBOTHERMAL REPROCESSING OF SODIUM ALUMINATE 67-02 M03-61611

PRODUCING ALKALI METALS AND ALUMINUM OXIDE BY ALUMOTHERMIC REDUCTION OF ALUMINATES 67-02 M03-61717

PRODUCTION OF SODIUM METAL FROM FUSED MELTS 67-08 M03-74384

MANUFACTURING PROBLEMS OF METALLIC SODIUM 67-10 M03-78317

SODIUM, IMPURITIES

ANALYSIS OF THE CONDITIONS RESULTING IN THE PRESENCE OF SODIUM IMPURITY IN CATHODIC ALUMINUM 67-08 M03-76239

SODIUM, LIQUID METALS

WAVE NUMBER-DEPENDENT ELASTIC MODULI IN LIQUID METALS 67-10 M16-78444

SODIUM, MELTS

LIQUID SODIUM TECHNOLOGY DEVELOPMENT. PT. 1. TEST LOOPS, PURIFICATION METHODS AND SUPPLEMENTARY TECHNIQUES 67-08 M01-75303

SODIUM, NUCLEAR PROPERTIES

FAST NEUTRON SCATTERING FROM BERYLLIUM, SODIUM, AND ALUMINUM 67-06 M16-70548

SODIUM, PHYSICAL PROPERTIES

MISCIBILITY OF MOLTEN LITHIUM AND SODIUM 67-10 M15-79049

DENSITIES OF LITHIUM, SODIUM AND POTASSIUM AT TEMPERATURES UP TO 1500-1600 C 67-10 M15-79252

EXPERIMENTAL DATA ON THE VELOCITY OF SOUND IN ALKALI METALS AT TEMPERATURES UP TO 800 C 67-10 M15-79253

SODIUM, REACTIONS /CHEMICAL/

A KINETIC STUDY OF THE HETEROGENEOUS REACTIONS OF METALLIC SODIUM WITH CHLORINE AND BROMINE

SODIUM

67-05 M14-68616
LIQUID ALKALI METALS AS REACTION MEDIA
67-05 M14-69279
THERMODYNAMIC QUANTITIES IN THE EXCHANGE OF ZINC WITH SODIUM IONS IN VARIOUSLY CROSS-LINKED POLYSTYRENE SULFONATE CATION EXCHANGERS AT 25 C
67-09 M14-76600

SODIUM, SOLUBILITY
THE SOLUBILITY OF INDIUM IN LIQUID SODIUM
67-12 M14-82875

SODIUM, SURFACE PROPERTIES
STUDY OF THE SURFACE TENSION OF LIQUID SODIUM AND POTASSIUM 67-06 M15-72040

SODIUM, THERMAL PROPERTIES
SPECIFIC HEAT OF SODIUM FROM 300 TO 475 K
67-06 M15-69912
ELECTROMIGRATION AND THERMAL TRANSPORT IN SODIUM METAL 67-06 M16-69916

SODIUM, THERMODYNAMICS
INFLUENCE OF PRESSURE ON THE HEAT CAPACITY OF METALS 67-04 M15-68010

SODIUM, TRANSPORT PROPERTIES
RELAXATION EFFECTS AROUND VACANCIES IN SODIUM METAL
67-07 M16-73631
THERMIONIC PROPERTIES OF TUNGSTEN IN IODIDE VAPORS
67-09 M16-76481

SODIUM BASE ALLOYS, CHEMICAL ANALYSIS
THE DETERMINATION BY FLAME PHOTOMETRY OF POTASSIUM AND SODIUM IN K-NA ALLOYS AND IN MIXTURES OF THE ALKALIES KOH AND NAOH 67-05 M19-69623

SODIUM BASE ALLOYS, MAGNETIC PROPERTIES
NUCLEAR MAGNETIC RESONANCE IN LIQUID SODIUM ALLOYS
67-09 M16-76595

SODIUM BASE ALLOYS, MELTING
A PREMELTING PHENOMENON IN NA-K ALLOYS
67-09 M14-76591

SODIUM BASE ALLOYS, PHYSICAL PROPERTIES
RECENT DEVELOPMENTS IN ELECTRICAL CONDUCTOR MATERIALS. PT. 6 67-08 M20-74954

SODIUM BASE ALLOYS, THERMAL PROPERTIES
HEAT OF MIXING IN LIQUID ALLOYS
67-03 M15-65163

SODIUM BASE ALLOYS, THERMODYNAMICS
ENTHALPY OF MIXING IN THE SYSTEM SODIUM-THALLIUM
67-09 M15-76580

SODIUM CARBONATE, REACTIONS /CHEMICAL/
THE PATTERN OF NITROGEN, SILICON, AND SULFUR ELIMINATION AND THE BEHAVIOR OF TITANIUM DURING THE PRETREATMENT OF OPENHEARTH AND BASIC BESSEMER HOT METALS WITH SODA
67-07 M04-72707
THE ACTION OF ALKALI ON TRANSITION-METAL CARBIDES
67-10 M14-79602

SODIUM CHLORIDE, ATOMIC PROPERTIES
ABSORPTION AND THE ATOMIC SCATTERING OF ELECTRONS IN ALUMINUM AND NACL 67-11 M16-80181

SODIUM COMPOUNDS
SEE ALSO SODIUM CARBONATE
SODIUM CHLORIDE

SODIUM COMPOUNDS, BINARY SYSTEMS
THERMOCHEMICAL INVESTIGATIONS ON THE SYSTEM NAF-ALF3 67-07 M15-73879

SODIUM COMPOUNDS, CHEMICAL ANALYSIS
ANALYSIS OF SODIUM ALUMINATE SOLUTIONS BY PHOTOMETRIC TITRATION 67-09 M19-77031

SODIUM COMPOUNDS, CORROSION
THERMOGRAVIMETRIC INVESTIGATIONS OF SUBSTANCES CONTAINING SULFATE WITH HIGH-TEMPERATURE CORROSION ON THE FIRE SIDE OF COAL-FIRED BOILERS
67-02 M18-62009

SODIUM COMPOUNDS, ELECTROLYTES
A NEW ELECTROLYTE FOR ELECTROCHEMICAL MACHINING
67-07 M08-72795

SODIUM COMPOUNDS, PHASE TRANSFORMATIONS
CALCULATED MODEL FOR NAF-ALF3 SYSTEM
67-12 M13-82732

SODIUM COMPOUNDS, PHASES /STATE OF MATTER/
SODIUM ALUMINATES 67-09 M13-77068

SODIUM COMPOUNDS, PHYSICAL PROPERTIES
CALCULATIONS OF DISPERSION CURVES AND SPECIFIC HEAT FOR LIF AND NACL USING THE BREATHING SHELL MODEL
67-11 M14-80616

SODIUM COMPOUNDS, REACTIONS /CHEMICAL/
ELECTROCHEMICAL STUDIES IN MOLTEN LI2CO3-NA2CO3
67-07 M14-73454
ON THE SOLUBILITY OF SODIUM-CALCIUM HYDROSILICATE IN ALKALIS AND ALUMINATE SOLUTIONS
67-08 M14-75018

SODIUM COMPOUNDS, SOLUBILITY
THE CHEMISTRY OF HYDROGEN IN LIQUID-ALKALI-METAL MIXTURES USEFUL AS NUCLEAR REACTOR COOLANTS. PT. 1. SODIUM-POTASSIUM EUTECTIC
67-07 M14-74298

SODIUM COMPOUNDS, SYSTEMS /METALLURGICAL/
MEASUREMENTS OF VAPOR PRESSURE FOR NAF3-ALF3 AND
67-07 M15-73878

SOFT ANNEALING
SEE ANNEALING

SOFT SOLDERING
SEE SOLDERING

SOFT SOLDERS
SEE SOLDERS

SOFTENING POINTS
THE COLD WORKING AND SOFTENING OF COPPER ALLOYS
67-04 M17-66152
LATTICE INSTABILITY OF HIGH-TRANSITION-TEMPERATURE SUPERCONDUCTORS. PT. 2. SINGLE-CRYSTAL V3SI RESULTS 67-05 M16-69517
TRANSIENT SOFTENING DURING AGING OF SOME ALUMINUM-BASED SOLID SOLUTIONS 67-12 M10-82977

SOFTENING RANGES
SEE SOFTENING POINTS

SOIL /MATERIAL/
SEE ALSO FOUNDRY SANDS
THE WEAR OF METALS BY HARD ABRASIVES
67-10 M17-79109

SOIL /MATERIAL/, CORROSION ENVIRONMENTS
GUIDELINES DEVISED FOR CORROSION PROTECTION OF FERROUS PIPELINES UNDERGROUND
67-04 M18-66601

SOILS /TYPES/
FUNDAMENTAL EXPERIMENT ON SOILS. PT. 1. STUDIES ON SOIL CORROSION OF METALLIC MATERIALS
67-12 M18-82892

SOILS /TYPES/, CORROSION ENVIRONMENTS
CRITERIA OF SOIL AGGRESSIVENESS TOWARDS BURIED METALS. PT. 1. EXPERIMENTAL METHODS
67-09 M18-77486
CRITERIA OF SOIL AGGRESSIVENESS TOWARDS BURIED METALS. PT. 2. ASSESSMENT OF VARIOUS SOILS
67-09 M18-77487
CRITERIA OF SOIL AGGRESSIVENESS TOWARDS BURIED METALS. PT. 3. VERIFICATION OF PREDICTED BEHAVIOR OF SELECTED SOILS 67-09 M18-77488

SOL GEL PROCESS
A METHOD FOR PREPARING DENSE SPHERICAL PARTICLES OF THORIUM AND THORIUM-URANIUM DICARBIDES
67-07 M09-73151

SOLAR CELLS
SEE SOLAR GENERATORS

SOLAR GENERATORS, ELECTRICAL PROPERTIES
ANNEALING OF PROTON RADIATION DAMAGE IN SILICON SOLAR CELLS 67-05 M16-69093

SOLAR GENERATORS, RADIATION EFFECTS
AN ANALYSIS OF NON-UNIFORM PROTON IRRADIATION DAMAGE IN SILICON SOLAR CELLS
67-01 M16-57556

SOLDER COATING
SEE ALLOY PLATING
LEAD PLATING
TIN PLATING

SOLDER PLATING
SEE ALLOY PLATING
LEAD PLATING
TIN PLATING

SOLDERED JOINTS
THE DISTRIBUTION OF SHAPE CHANGE IN FORGING
67-05 M07-68566
SOLDERING PALLADIUM PLATED ELECTRONIC COMPONENTS. AN INVESTIGATION OF THE RELIABILITY OF JOINTS
67-07 M11-72879

SOLDERED JOINTS, IMPURITY EFFECTS
THE EFFECT OF IMPURITY CONTENTS IN SOLDERS
67-09 M11-78179

SOLDERED JOINTS, MECHANICAL PROPERTIES
USE OF SOLDERING PASTES IN INDUSTRY
67-02 M11-60012
METALLURGICAL PROCESSES IN THE SOLDERING OF CU AND THE STRENGTH BEHAVIOR OF SOLDERED JOINTS
67-04 M11-67077
CRACKING OF A PRESSURE VESSEL DUE TO PENETRATION BY SOLDER 67-08 M17-74503

SOLDERED JOINTS, MECHANICAL TESTS
TESTS FOR TIN-LEAD SOLDERS AND SOLDER JOINTS
67-08 M17-74957

SOLDERED JOINTS, THERMAL PROPERTIES
THERMAL TRANSPORT ACROSS SUPERCONDUCTING SOLDER JOINTS NEAR 0.1 K 67-09 M15-78030

SOLDERING
ALUMINUM AND ALUMINUM ALLOYS IN SHEET, PLATE AND TUBE FORM 67-01 M17-58306
KOVAR 61--AN ALLOY FOR SOLDERING WITH CZECHOSLOVAKIAN CERAMICS 67-02 M11-58869
GOLD BRAZING ALLOYS OR SOLDERS 67-02 M20-58916
METALLURGICAL PROCESSES IN THE SOLDERING OF CU AND THE STRENGTH BEHAVIOR OF SOLDERED JOINTS 67-04 M11-67077
FABRICATION OF BERYLLIUM STRUCTURES BY BRAZE-WELDING, BRAZING AND SOLDERING 67-04 M11-67889
SOLDERING PROBLEMS IN THE PRODUCTION OF ELECTRONIC TUBES 67-05 M11-68606
SOLDERABILITY OF COATINGS FOR PRINTED CIRCUITS 67-05 M11-68827
WETTING OF SOLID-METAL SURFACES BY MOLTEN METALS 67-05 M15-69561
AUTOMATIC SOLDERING AND BRAZING 67-06 M11-69954
MICROPROBE INVESTIGATIONS OF DIFFUSION PHENOMENA IN SOLDERED AND BRAZED JOINTS 67-06 M11-70240
SENDZIMIR-GALVANIZED WIDE STRIP--APPLICATIONS AND PROCESSING 67-06 M12-71565
BRAZING OF TITANIUM AND TITANIUM ALLOYS 67-07 M11-72420
THE MECHANISM OF SELF-FLUXING BRAZING ALLOYS 67-07 M11-73969
SOLDERING 67-08 M11-74851
MAINTENANCE SOLDERING WELDING AND BRAZING 67-09 M11-77764
SOLDERABILITY--A PREREQUISITE TO TIN-LEAD PLATING 67-09 M12-78056
THE NICKEL SILVERS 67-10 M11-78874
THE ATTAINMENT OF THE BEST POSSIBLE SOLDERABILITY IN THE ELECTRONIC INDUSTRY 67-11 M11-81026
DEVELOPING NEW FLUXES FOR SOFT SOLDERING AND THE RESULTANT DIFFICULTIES 67-11 M11-81027
MEASUREMENT OF LOW JOINT RESISTANCE BETWEEN SUPERCONDUCTORS 67-11 M16-80333

SOLDERING, AUTOMATION
AUTOMATION FOR BRAZING AND SOLDERING 67-10 M11-79192

SOLDERING FLUXES
USE OF SOLDERING PASTES IN INDUSTRY 67-02 M11-60012
THE ACTION OF FLUXES THAT ASSIST TINNING AND SOLDERING 67-04 M11-67761
THE MECHANISM OF SELF-FLUXING BRAZING ALLOYS 67-07 M11-73969

SOLDERING FLUXES, SURFACE PROPERTIES
THE SPREADING ABILITIES OF SOLDER ON STAINLESS STEEL SPRING 67-06 M12-70815

SOLDERS
METALLURGICAL PROCESSES IN THE SOLDERING OF CU AND THE STRENGTH BEHAVIOR OF SOLDERED JOINTS 67-04 M11-67077
PROPERTIES OF CADMIUM-ZINC HIGH STRENGTH SOLDER ALLOY 67-06 M12-72150

SOLDERS, CASTING
CONTINUOUS PRODUCTION OF WIRE, TAPE AND NARROW STRIP 67-05 M06-69593

SOLDERS, CRYSTAL GROWTH
GROWTH OF WHISKER CRYSTALS AND RELATED MORPHOLOGIES BY ELECTROTRANSPORT 67-01 M14-58694

SOLDERS, MECHANICAL TESTS
TESTS FOR TIN-LEAD SOLDERS AND SOLDER JOINTS 67-08 M17-74957

SOLDERS, PASTES
USE OF SOLDERING PASTES IN INDUSTRY 67-02 M11-60012

SOLDERS, REACTIONS /CHEMICAL/
ON THE INTERACTION OF SOLDERS WITH TITANIUM DURING DIFFUSION BRAZING 67-01 M11-58209

SOLDERS, SOLDERING
SOLDERING PROBLEMS IN THE PRODUCTION OF ELECTRONIC TUBES 67-05 M11-68606

SOLDERS, SUPERCONDUCTIVITY
SUPERCONDUCTIVITY OF CD-BI EUTECTIC SOLDER 67-12 M16-82373

SOLDERS, SURFACE PROPERTIES
THE SPREADING ABILITIES OF SOLDER ON STAINLESS STEEL SPRING 67-06 M12-70815

SOLDERS, THERMAL PROPERTIES
GOLD BRAZING ALLOYS OR SOLDERS 67-02 M20-58916

SOLENOIDS, MATERIALS
NIOBIUM-TITANIUM ALLOY SOLENOID 67-02 M15-60891
SUPERCONDUCTING SOLENOIDS MADE FROM NIOBIUM ALLOYS WITH ZIRCONIUM 67-02 M20-59645
A NEW TYPE OF SUPERCONDUCTING NB3SN-TAPE 67-05 M16-69848

SOLENOIDS, STRUCTURAL MATERIALS
THE SUPERCONDUCTING GRADE 65BT ALLOY 67-08 M20-75442

SOLENOIDS, SUPERCONDUCTIVITY
DISTRIBUTION OF NORMAL REGION AFTER S-N TRANSITION IN A SUPERCONDUCTING MAGNET 67-02 M16-60518
EFFECT OF FAST NEUTRON IRRADIATION AT LOW TEMPERATURE ON NBZR COIL PERFORMANCE 67-11 M16-80335

SOLENOIDS, SUPERCONDUCTORS
A COMPARATIVE REVIEW OF MATERIALS FOR CONSTRUCTION OF SUPERCONDUCTING SOLENOIDS 67-10 M16-78779

SOLID PHASES
BEHAVIOR OF GRAPHITE IN HYPEREUTECTIC IRON-CARBON ALLOY BY QUENCHING METHOD. PT. 2 67-01 M14-58548
NEW HIGH PRESSURE PHASES HAVING THE CORUNDUM STRUCTURE 67-04 M13-67364
RELATIONSHIP OF MICROSTRUCTURE TO SOME MECHANICAL PROPERTIES OF TI-8AL-1V-1MO 67-04 M14-66924
THE MAURER DIAGRAM, ITS ERRORS AND ITS EVOLUTION 67-04 M14-67707
EXPRESS DETERMINATION OF THE PHASE COMPOSITION OF ARTIFICIAL CARNALLITE 67-04 M19-67530
LAVES PHASES IN THE SCANDIUM-IRON SYSTEM 67-06 M13-70907
MICROSCOPIC AND X-RAY SPECTRAL ANALYSES OF SILICO-CARBIDE EUTECTIC IN FE-C-SI ALLOYS 67-06 M14-69992
W-CR-C TERNARY SYSTEM 67-06 M14-69993
PHASE CHEMICAL ANALYSIS OF ALLOYS OF THE ZRO2-ZRC AND ZRO2-TIC SYSTEM 67-06 M14-69995
INFLUENCE OF TEMPERATURE AND AGING TIME ON STRUCTURE AND PHASE COMPOSITION OF AMG6 AL ALLOYS 67-06 M14-70074
CHANGE IN THE STRUCTURE AND PROPERTIES OF HEAT RESISTANT STEELS IN WELD JOINTS OF STEAM LINES 67-06 M14-70155
PHYSICOCHEMICAL STUDY OF ALLOYS OF THE NIOBIUM-TUNGSTEN-MOLYBDENUM CHROMIUM SYSTEM 67-06 M14-70164
ON THE NATURE OF MASSIVE PHASES IN HYPOEUTECTOID CU-GA ALLOYS 67-06 M14-70404
METASTABLE EVAPORATED THIN FILMS OF CU-AG AND CO-AU ALLOYS. PT. 1. OCCURRENCE AND MORPHOLOGY OF PHASES 67-06 M14-70407
LOW TEMPERATURE STRUCTURAL TRANSFORMATION IN NB3SN 67-06 M14-70574
EQUILIBRIUM DIAGRAM OF THE IRON-MOLYBDENUM SYSTEM 67-06 M14-70810
NEW VANADIUM COMPOUNDS WITH A CR3SI TYPE STRUCTURE 67-08 M14-74864
SODIUM ALUMINATES 67-09 M13-77068
X-RAY DETERMINATION OF CONCENTRATION DISTRIBUTION IN A MULTIPHASE ALLOY 67-10 M13-79908
STUDY OF PHASE DIFFUSION IN THE NICKEL-GOLD SYSTEM DURING ISOTHERMAL ANNEALING 67-10 M14-79911
EFFECT OF STRUCTURE AND PHASE COMPOSITION ON THE COERCIVE FORCE OF CONDENSED COBALT FILMS 67-10 M15-79839
THE THERMODYNAMIC PROPERTIES OF SEVERAL SOLID PHASES OF THE COMPOUND, INSB 67-12 M15-82973

SOLID PHASES, ALLOYING EFFECTS
EFFECT OF NICKEL ADDITIONS ON THE PHASE COMPOSITION OF IRON-BERYLLIUM ALLOYS 67-06 M14-69984
INFLUENCE OF ALLOYING ELEMENTS ON STRUCTURE OF NITRIDED LAYER OF STAINLESS STEEL AND THE MECHANISM OF ITS STRENGTHENING 67-07 M10-74180
PHASE ANALYSIS OF EP164 AND E1725 STEELS AND EI893 ALLOY 67-09 M13-76966
EFFECTS OF TITANIUM ON THE PHASE COMPOSITION OF A STAINLESS FERRITIC-AUSTENITIC STEEL 67-10 M18-78922

SOLID SOLUBILITY
STUDY ON COPPER-RICH COPPER-HAFNIUM ALLOYS 67-02 M01-59984
SOLID SOLUBILITY OF ZIRCONIUM IN ALUMINUM 67-02 M13-59890
DETERMINATION OF THE SOLUBILITY OF SI IN DILUTE AL-SI ALLOYS BY LOW-TEMPERATURE RESISTIVITY MEASUREMENTS 67-02 M14-61534
SOLUBILITY OF NITROGEN IN MOLTEN NICKEL AND IN THE ALLOYS OF NICKEL WITH CHROMIUM, MOLYBDENUM AND

TUNGSTEN 67-02 M15-60726
SOME CROSS-SUBSTITUTIONAL ALLOYS OF CDTE 67-02 M16-61765
THE LATTICE SPACINGS OF THORIUM-RICH SOLID SOLUTIONS WITH PRASEODYMIUM, SAMARIUM, GADOLINIUM AND ERBIUM 67-03 M13-65127
SOLUBILITY OF NB IN NI-CR SOLID SOLUTION 67-03 M13-65795
THE TERNARY CONDENSED PHASE DIAGRAM OF THE GA-AS-TE SYSTEM 67-03 M14-65428
INVESTIGATION OF THE BI2S3-SB2TE3 SYSTEM 67-04 M13-66011
DETERMINATION OF THE DIFFUSION COEFFICIENT OF CARBON IN NICKEL BY THERMOGRAVIMETRIC ANALYSIS 67-04 M14-66339
SOLID SOLUTION OF TITANIUM DIOXIDE IN ALUMINUM OXIDE 67-04 M14-67323
ALLOY COMPOSITIONS OF HFB2 WITH URANIUM AND TRANSITION METAL BORIDES 67-04 M14-67453
STUDY OF THE EQUILIBRIUM OF FOUR SOLID PHASES IN THE TERNARY SYSTEM U-C-SI 67-04 M14-67454
DETERMINING THE SOLUBILITY OF CARBON IN FERRITE BY THE RADIOMETRIC METHOD 67-04 M19-67090
SOLUBILITY OF HYDROGEN IN HARD ALLOYS 67-05 M13-69255
THE ALPHA-TI-FE SOLID SOLUTION AND ITS SUPERCONDUCTING PROPERTIES 67-05 M14-68214
SOLVUS COMPOSITION FOR NICKEL-RICH NICKEL-ZIRCONIUM ALLOYS 67-05 M14-68724
SOLUBILITY RELATIONSHIPS IN MAGNESIUM-MANGANESE-ZIRCONIUM ALLOYS 67-05 M14-69567
SOLUBILITY OF GALLIUM IN SOLID TIN 67-06 M13-70105
CONNECTION OF SOLUBILITY AND PROPERTIES OF SOLID SOLUTIONS IN BINARY SYSTEMS OF CARBIDES WITH EXCESS FREE ENERGY OF MIXING 67-06 M13-72332
PHYSICOCHEMICAL STUDY OF ALLOYS OF THE NIOBIUM-TUNGSTEN-MOLYBDENUM CHROMIUM SYSTEM 67-06 M14-70164
ANALYSIS OF NITRIDES IN BORON STEELS BY EXTRACTION OF NONMETALLIC PHASES 67-06 M19-71568
BERYLLIUM-RICH END OF FIVE BINARY SYSTEMS 67-07 M13-73742
THE GAMMA LOOP IN THE FE-AL SYSTEM 67-07 M13-74175
SOLID SOLUTION OF BORON IN GRAPHITE 67-07 M14-72827
PHASE RELATIONS AND THERMOELECTRIC PROPERTIES OF THE ALLOY SYSTEMS, SNTE-BI2TE3 AND PBTE-SB2TE3 67-07 M14-73462
HYDROGEN IN BERYLLIUM 67-07 M14-74242
THE SOLUBILITY OF SULFUR IN SILICON IRON 67-07 M15-73514
THE DECOMPOSITION OF TUNGSTEN-CHROMIUM SOLID SOLUTION 67-07 M15-73905
STUDY OF A PORTION OF THE TI-AL-CR-FE-SI-B SYSTEM 67-08 M13-75897
SOLUBILITY OF CALCIUM IN PHASE CONSTITUENTS OF HIGH-SILICON FERROSILICON 67-08 M14-74572
STUDY OF THE A1SB-GASB-INSB SYSTEM 67-08 M14-75080
THE GRAIN-BOUNDARY SEGREGATION OF FE, CO AND NI IN PURE ALUMINUM AND ITS EFFECTS ON MECHANICAL PROPERTIES 67-08 M14-75356
INTERFACIAL SEGREGATION OF NITROGEN IN IRON 67-08 M14-75579
ALLOYING BEHAVIOR OF SILVER AND ITS PRINCIPAL BINARY ALLOYS 67-08 M14-75625
OXYGEN IN SILVER 67-08 M14-75627
SELENIDE-SULFIDE INCLUSIONS AND SYNTHETIC COMPOUNDS OF THE --MN, ME-- --S, SE---TYPE 67-08 M14-75811
SOME PROPERTIES OF COPPER-RICH COPPER-HAFNIUM ALLOYS 67-08 M17-75754
STUDY OF OXIDATION IN HF-TI ALLOYS 67-08 M18-75898
LATTICE PARAMETERS OF IRON-RICH IRON-GALLIUM ALLOYS 67-09 M13-77733
THE SOLID SOLUBILITY OF TIN-ANTIMONY ALLOYS, AND ITS MICROHETEROGENIZATION 67-09 M14-76965
EVIDENCE FOR INTERSTITIAL COBALT IN INDIUM BY MOSSBAUER SPECTROSCOPY 67-09 M14-77163
EACH PHASE COMPOSITION OF TIC-NI CERMET 67-09 M14-77246
CONTRIBUTION TO THE STUDY OF THE CHEMICAL ACTIVITY OF THE ELEMENTS PHOSPHORUS, SULPHUR, SILICON, COPPER AND CHROMIUM IN MOLTEN IRON SOLUTIONS SATURATED WITH CARBON 67-09 M14-77343
DETERMINATION OF THE SOLUBILITY OF CARBON IN FERRITE BY A RADIOMETRIC METHOD 67-09 M14-78070
THE MICROSTRUCTURE AND CRYSTALLOGRAPHY OF THE ALUMINUM-GERMANIUM EUTECTIC 67-12 M13-82731
THE SOLID SOLUBILITY LIMITS OF ZINC IN GAAS AT 1000 C 67-12 M14-82290
DIFFUSION OF MOLYBDENUM IN ALUMINUM 67-12 M14-82378

SOLID SOLUBILITY, ALLOYING EFFECTS
SOLUBILITY OF NBC IN 20 PER CENT CR-25 PER CENT NI STAINLESS STEEL 67-08 M14-75812

SOLID SOLUBILITY, COMPOSITION EFFECTS
PROPERTIES OF WC-TIC-13 PER CENT CO ALLOYS IN CONNECTION WITH THE CARBON CONTENT OF CARBIDES 67-02 M14-59752

SOLID SOLUBILITY, TEMPERATURE EFFECTS
THE TERMINAL SOLUBILITY OF HYDROGEN IN ZIRCONIUM ALLOYS BETWEEN 30 AND 400 C 67-05 M14-69562
SOLUBILITY, PERMEABILITY, AND DIFFUSIVITY OF OXYGEN IN SOLID IRON 67-12 M14-82559

SOLID SOLUTIONS
SEE ALSO INTERSTITIAL SOLUTIONS
SUBSTITUTIONAL SOLID SOLUTIONS
A STUDY ON THE CO PHASE COMPOSITION CONTAINED IN WC -CO-BASE CEMENTED CARBIDES 67-01 M14-58333
STRUCTURAL CHARACTERISTICS OF SOLID SOLUTIONS CRSI2-VSI2 AND CRSI2-TISI2 67-04 M13-66264
PREPARATION OF SOLID SOLUTIONS OF SOME COMPLEX CARBIDES OF TRANSITION METALS 67-06 M09-72323
ON SPONTANEOUS RECRYSTALLIZATION OF SN-GA SOLID SOLUTION 67-07 M14-73163
FUSIBILITY DIAGRAM OF THE TI-ZR-CR SYSTEM 67-08 M13-75895
ON THE MECHANISM OF THERMAL CONDUCTIVITY IN --GASB--3X---GA2TE3--1-X AND --GASB--X---GATE--1-X SOLID SOLUTIONS 67-08 M15-75237
INVESTIGATION OF --FE, MN--1-YO SOLID SOLUTIONS 67-10 M14-80023
PRIMARY SOLID-SOLUTION PHASE BOUNDARY IN SILVER CORNER OF SILVER-CADMIUM-INDIUM TERNARY SYSTEM 67-12 M14-82758
STRUCTURAL AND MAGNETIC STUDY OF ARSENIDES M2AS 67-12 M15-83220

SOLID SOLUTIONS, CRYSTAL GROWTH
IDENTIFICATION AND GROWTH TOPOLOGY OF CRYSTALS DEPOSITED IN AN AL-CU-AG ALLOY 67-04 M14-66395
PREPARATION AND SOME PROPERTIES OF SOLID SOLUTIONS CD1-XMGXTE 67-08 M14-75058
EFFECTS OF COOLING RATE DURING THE SOLIDIFICATION OF SOLID SOLUTIONS ON THE COMPOSITION OF THE AXIAL REGIONS OF DENDRITE BRANCHES 67-09 M14-76888

SOLID SOLUTIONS, CRYSTAL LATTICES
STUDY OF THE HARDNESS OF TITANIUM-OXYGEN ALLOYS 67-02 M14-62252
THE LATTICE SPACINGS OF THORIUM-RICH SOLID SOLUTIONS WITH PRASEODYMIUM, SAMARIUM, GADOLINIUM AND ERBIUM 67-03 M13-65127
DEFORMATION TWINNING IN AGED CU-4 PER CENT TI ALLOY 67-03 M13-65641
THE EFFECT OF SOLUTE ON SLIP AND MECHANICAL TWINNING IN IRON ALLOYS 67-07 M13-73060
COMPARISON OF THE ENERGY OF STACKING FAULTS WITH THE ELECTRON STRUCTURE OF THE METAL 67-07 M13-73483
A COMPARISON OF THE USE OF ALUMINUM AND VANADIUM NITRIDES FOR MAKING GRAIN-ORIENTED SILICON-IRON 67-07 M13-73519
THE STACKING FAULT DENSITY IN SOLID SOLUTIONS BASED ON COPPER, SILVER, NICKEL, ALUMINIUM AND LEAD 67-07 M13-73906
RELAXATION SPECTRUM OF DEFORMED AL PLUS 0.25 WT PER CENT FE 67-07 M13-73983
INVESTIGATIONS ON THE SOLID SOLUTION SERIES-- Y6MN23-Y6FE23 AND YMN2-YFE2 67-09 M13-77025
THE IDENTIFICATION OF RHENIUM IN TUNGSTEN-RHENIUM ALLOYS USING THE FIELD-ION MICROSCOPE 67-10 M13-78906

SOLID SOLUTIONS, DEGASSING
DEGASSING KINETICS OF METAL-NITROGEN-SOLID SOLUTIONS. PT. 1. THEORETICAL CONSIDERATIONS 67-02 M14-60125

SOLID SOLUTIONS, DIFFUSION
DIFFUSION IN HETEROGENEOUS SOLIDS AND CALCULATION OF THE CONCENTRATION DISTRIBUTION OF ALLOYS 67-01 M14-57344
DETERMINATION OF DIFFUSION COEFFICIENTS IN METALS

BY A RESISTOMETRIC METHOD--APPLICATION TO THE DIFFUSION OF ZN IN AL 67-01 M14-57561
MUTUAL DIFFUSION IN SOME BINARY SYSTEMS WHICH FORM CONTINUOUS SERIES OF SOLID SOLUTIONS 67-07 M14-73476
ELECTRODIFFUSION IN DILUTE COPPER ALLOYS 67-10 M15-79115

SOLID SOLUTIONS, ELECTRICAL PROPERTIES
ELECTRICAL PROPERTIES OF GASB-GA2TE3 AND GASB-GATE SOLID SOLUTIONS 67-02 M15-61521
THE TRANSITION TEMPERATURE OF SUPERCONDUCTING TECHNETIUM-RHENIUM ALLOYS 67-02 M15-61530
SUPERCONDUCTING TRANSITION TEMPERATURES OF LEAD ALLOYS 67-02 M16-59065
THE TEMPERATURE DEPENDENCE OF THE CRITICAL FIELD HC2 IN SOLID SOLUTION NB-TA ALLOYS 67-07 M16-73495
PERMITTIVITY OF SOLID SOLUTIONS IN THE SYSTEM ZNXHG1-XTE 67-07 M16-73998
ELECTRIC AND THERMOELECTRIC EFFECTS IN A SOLID SOLUTION OF ZNXCD1-XSB 67-09 M15-76737

SOLID SOLUTIONS, IRRADIATION
IRRADIATION BEHAVIOUR OF SOLID SOLUTION URANIUM-PLUTONIUM MONOCARBIDES AT HIGH BURNUPS 67-09 M16-76355

SOLID SOLUTIONS, MAGNETIC PROPERTIES
FERROMAGNETIC CURIE TEMPERATURES OF SOME IRON-ZINC SOLID SOLUTIONS 67-01 M15-57564
MAGNETIC STUDIES OF RELAXATION PHENOMENA IN ALPHA-FE-C ALLOYS 67-02 M15-61533
EFFECT OF HYDROSTATIC PRESSURE ON THE MAGNETIC MOMENT OF CU-NI ALLOYS 67-04 M15-67480
FERROMAGNETIC TRANSITIONS IN DILUTE SOLUTIONS OF COBALT IN PALLADIUM 67-06 M15-71794
CORRELATION OF ELECTRONIC SPECIFIC HEATS AND CURIE TEMPERATURES IN DILUTE ALLOYS OF IRON 67-07 M15-73541
LOW-TEMPERATURE SUSCEPTIBILITIES OF RH AND IR WITH FE IMPURITIES 67-07 M15-73551
MAGNETIC PROPERTIES OF COMPOUNDS AND SOLID SOLUTIONS OF RARE-EARTH METALS 67-07 M15-73580
MAGNETIC BEHAVIOR OF THE SYSTEM MN2O3-FE2O3 67-07 M15-73600
STUDY OF THE PHYSICAL PROPERTIES OF CR-TE-S, CR-TE-SE AND CR-TE-SB ALLOYS 67-10 M15-79836

SOLID SOLUTIONS, MECHANICAL PROPERTIES
ON THE CRITICAL RESOLVED SHEAR STRESS OF SOLID SOLUTIONS CONTAINING COHERENT PRECIPITATES 67-01 M17-57573
AGE-HARDENING BEHAVIOUR IN A 5 PER CENT TIN BRONZE CONTAINING TITANIUM 67-02 M14-61845
INTERNAL FRICTION IN N-ALPHA FE SOLID SOLUTIONS WITH DIFFERENT PURITY AND GRAIN SIZE 67-02 M17-61599
EFFECT OF SHORT-RANGE ORDER ON THE MECHANICAL PROPERTIES OF SOLID SOLUTIONS 67-02 M17-61940
SUPERPLASTIC BEHAVIOR OF A SOLID-SOLUTION SN-1 PER CENT BI ALLOY 67-03 M17-65096
PHYSICAL-CHEMICAL THEORY OF CREEP RESISTANCE OF REFRACTORY METALS AND THEIR ALLOYS 67-04 M13-66442
EFFECT OF COMPOSITION AND COOLING RATE ON THE MICROHARDNESS OF A CAST AL-CU ALLOY SOLID SOLUTION 67-06 M17-70175
FRACTURE OF IRON-BASE SOLID-SOLUTION ALLOYS 67-06 M17-70625
MECHANICAL PROPERTIES OF SOME TANTALUM ALLOYS 67-06 M17-71528
CHEMICALLY STRENGTHENED, LEACHED ALUMINA AND SPINEL 67-08 M17-76090

SOLID SOLUTIONS, MICROSTRUCTURE
INITIAL STAGES OF THE DISINTEGRATION OF THE SUPERSATURATED SOLID SOLUTION IN ALLOYS BASED ON THE SYSTEM. FE-NI-AL 67-02 M14-61944
EVOLUTION OF DISLOCATIONS DURING ANNEALING IN AN ORDERED SOLID SOLUTION OF FE-AL 67-03 M13-65557
A SURVEY OF DECOMPOSITION PROCESSES IN SUPERSATURATED FE-27 AT. PER CENT BE 67-03 M14-65083
SOME FEATURES OF THE DISLOCATION STRUCTURE OF DILUTE SOLID SOLUTIONS BASED ON SILVER 67-04 M13-67655
ORIGIN AND NATURE OF MICROSTRUCTURES 67-05 M14-68991

SOLID SOLUTIONS, NUCLEATION
NUCLEATION FROM SUPERSATURATED SOLID SOLUTIONS 67-05 M14-69724

SOLID SOLUTIONS, OPTICAL PROPERTIES
OPTICAL PROPERTIES OF DILUTED SOLID SOLUTIONS OF SILVER-GOLD 67-02 M15-62091

SOLID SOLUTIONS, PHASE DIAGRAMS
STUDY OF THE A1SB-GASB-INSB SYSTEM 67-08 M14-75080

SOLID SOLUTIONS, PHASE TRANSFORMATIONS
KINETICS OF THE DECOMPOSITION OF A QUENCHED ALUMINUM-25 WT.- PER CENT ZINC ALLOY 67-02 M14-61839
IDENTIFICATION AND GROWTH TOPOLOGY OF CRYSTALS DEPOSITED IN AN AL-CU-AG ALLOY 67-05 M14-68594
SOLID SOLUTION DISINTEGRATION KINETICS IN THE ALLOY MG-AL 67-05 M14-68848
THE INITIAL STAGES OF DISINTEGRATION OF CO-TA AND CO-NB SUPERSATURATED SOLID SOLUTIONS 67-05 M14-68858
THE ROLE OF LATTICE VACANCIES IN PHASE TRANSFORMATIONS OF BINARY ALLOYS 67-05 M14-69378
THE SOLIDIFICATION OF BI2TE3 AND ITS SOLID SOLUTIONS WITH BI2SE3 AND SB2TE3 UNDER THE INFLUENCE OF ULTRASONIC AGITATION 67-06 M14-70664
PHASE TRANSFORMATION OF FE-CR BINARY SYSTEM AT ABOUT 500 C 67-08 M14-74404
STRAIN-INDUCED PHASE TRANSFORMATION IN METASTABLE CU-SI SOLID SOLUTIONS 67-08 M14-75968
THE REFRACTORY NATURE OF CUBIC SOLID SOLUTIONS FORMED BY ZR WITH CERTAIN SESQUIOXIDES OF RARE EARTH ELEMENTS 67-10 M14-79896
DECOMPOSITION OF A GERMANIUM SOLID SOLUTION TO ALUMINUM IN AN ALUMINUM ALLOY WITH 4 PER CENT GE 67-10 M14-79913

SOLID SOLUTIONS, PHASES /STATE OF MATTER/
PHASE EQUILIBRIUM AND THE MECHANISM OF REDUCING SOLID SOLUTIONS IN THE SPINEL REGION OF THE MG-AL-CR-FE-O SYSTEM 67-06 M14-69975
PHASE CHEMICAL ANALYSIS OF ALLOYS OF THE ZRO2-ZRC AND ZRO2-TIC SYSTEM 67-06 M14-69995
NEUTRON DIFFRACTION ANALYSIS OF FE-CO ATOMIC FERROMAGNETIC SUPERLATTICES 67-10 M13-79916

SOLID SOLUTIONS, PHYSICAL PROPERTIES
SOLUBILITY OF GASES IN REFRACTORY METALS AND PRECIPITATION FROM SUPERSATURATED SOLID SOLUTIONS 67-04 M14-67547
EFFECTIVE MAGNETIC FIELD ON THE NB AND TA NUCLEI DISSOLVED IN IRON 67-06 M16-71916
INTERPRETATION OF ISOMER SHIFTS OF GAMMA RADIATION OF IMPURITY NUCLEI SN119 AND AU197 IN METALLIC SOLID SOLUTIONS 67-06 M16-71928
THE DECOMPOSITION OF TUNGSTEN-CHROMIUM SOLID SOLUTION 67-07 M15-73905
NUCLEAR-MAGNETIC-RESONANCE AND X-RAY STUDY OF SOLUTE LOSS BY INTERNAL OXIDATION IN COMMINUTED AND VACUUM-ANNEALED CU-MN ALLOYS 67-07 M15-73938
THE PHYSICAL AND ELECTRONIC PROPERTIES OF SEMICONDUCTING SOLID SOLUTIONS OF THE CD3AS2-ZN3AS2 SYSTEM 67-09 M15-78254

SOLID SOLUTIONS, PRECIPITATION
SIZE DISTRIBUTION FUNCTION OF PRECIPITATE CO PARTICLES IN CU-1 PER CENT CO SOLID SOLUTION 67-06 M13-71956

SOLID SOLUTIONS, SEMICONDUCTORS
THE THERMOELECTRIC EFFICIENCY OF CDSB AND SOLID SOLUTIONS OF ZNXCB1-XSB WITH HOLE CONDUCTIVITY 67-10 M15-79107

SOLID SOLUTIONS, SOLUBILITY
INFLUENCE OF THE THIRD COMPONENT ON THE STATE OF SOLID SOLUTION IN AL-CR SYSTEM PRODUCED BY HIGH COOLING RATES 67-10 M14-79139

SOLID SOLUTIONS, STRUCTURES /CRYSTALLINE/
INVESTIGATION BY MEANS OF THE ELECTRON MICROSCOPE OF PRECIPITATION IN AL-CU SOLID SOLUTIONS. PT. 1. THE STRUCTURE OF QUENCHED AL-CU SOLID SOLUTION 67-05 M14-69125

SOLID SOLUTIONS, SUPERCONDUCTIVITY
GE, SN, AL AND BE SOLID SOLUTIONS IN THE V3SI COMPOUND AND THEIR SUPERCONDUCTIVITY 67-02 M13-58866
SUPERCONDUCTING TRANSITION TEMPERATURE OF SOLID-SOLUTION TA-TI ALLOYS 67-03 M16-65878

SOLID SOLUTIONS, SYNTHESIS
A NEW FAMILY OF OXYGENATED BRONZES--THE CDXWO3 SERIES 67-02 M14-62286

SOLID SOLUTIONS, THERMAL PROPERTIES

SOLID SOLUTIONS

THERMAL EXPANSION OF SOLID SOLUTIONS OF METALS OF GROUPS VI, V AND IV OF THE PERIODIC SYSTEM WITH HIGH MELTING POINTS 67-08 M15-74995

SOLID SOLUTIONS, THERMODYNAMICS

THE URANIUM-CARBON-NITROGEN SYSTEM 67-02 M15-60617

CALCULATING THE MAXIMUM CONCENTRATION OF GERMANIUM AND SILICON SOLID SOLUTIONS ON A SOLIDUS CURVE 67-03 M14-65588

SOLID SOLUTIONS, TRANSPORT PROPERTIES

INFLUENCE OF ORDERING ON THE PROPERTIES OF SOLID SOLUTIONS OF THE SYSTEM --HGSE--3X---IN2SE3--1-X 67-06 M16-70982

INTERPRETATION OF THE ISOMERIC SHIFTS OF THE GAMMA RADIATION OF IMPURITY NUCLEI SN119 AND AU197 IN METALLIC SOLID SOLUTIONS 67-06 M16-71770

SOLID SOLUTIONS, WEAR

THE STRUCTURE AND WEAR RESISTANCE OF A NICKEL-FREE POWDERED HARD ALLOY WITH A HIGH MANGANESE CONTENT 67-08 M17-74863

SOLID SOLUTIONS, X RAY ANALYSIS

AN X-RAY STUDY OF THE EFFECT OF MANGANESE ON THE OCCURRENCE OF STACKING FAULTS IN SILVER-BASE ALLOYS 67-04 M14-66334

SOLID STATE

STUDIES IN SOLID STATE CHEMISTRY. PT. 1. ON A SOLID-STATE MECHANISM FOR THE POLYMORPHIC TRANSFORMATION OF ORTHORHOMBIC TO TETRAGONAL PBO 67-07 M14-73637

SOLID STATE BONDING

SEE PRESSURE WELDING

SOLID STATE WELDING

SEE PRESSURE WELDING

SOLIDIFICATION

THE EFFECT OF CASTING AND SOLIDIFICATION CONDITIONS ON THE PROPERTIES OF ROLLED AND FORGED PRODUCTS 67-01 M04-57916

FINDING THE OPTIMUM SETTLING TIME FOR HOT INGOTS 67-01 M04-58168

THE EFFECT OF GAS CONTENT IN ALUMINUM MELTS ON THE QUALITY OF CASTINGS 67-01 M06-58227

THE COPPER-TIN-ARSENIC CONSTITUTION DIAGRAM. PT. 1. SOLIDIFICATION REACTIONS 67-01 M13-57419

GROWTH TWINNING IN ALUMINUM ALLOYS 67-01 M14-57412

ON THE OBSERVATION OF GHOST BOUNDARIES PRODUCED BY GRAIN GROWTH IN DILUTE CADMIUM ALLOYS 67-01 M14-57431

EUTECTIC SOLIDIFICATION OF OXIDIZED CAST IRON 67-01 M14-58255

ON THE RELATIONS BETWEEN THE EUTECTIC SOLIDIFICATION RATE AND THE MICROSCOPIC STRUCTURE OF CAST IRON 67-01 M14-58256

SOLIDIFICATION OF CAST METAL 67-01 M14-58354

ZONE SEGREGATION IN SHAPED CASTINGS 67-02 M06-60078

DIRECTIONAL SOLIDIFICATION OF STEEL CASTINGS 67-02 M06-60201

EXPERIMENTS ON THE SOLIDIFICATION OF STEEL INGOTS BY SCRAPE METHOD 67-02 M06-60618

METHOD OF EFFECTING THE SOLIDIFICATION OF METALS UNDER GASEOUS PRESSURE 67-02 M06-60935

PREVENTION OF SHRINKAGE DEFECTS IN THICK SECTIONS AND HOT SPOTS OF HIGH-DUTY IRON CASTINGS 67-02 M06-61010

SOLIDIFICATION OF SEMI-CONTINUOUS CAST IRON PIPES 67-02 M06-61907

EFFECT OF CERTAIN FACTORS ON THE SOLIDIFICATION OF A STEEL INGOT 67-02 M06-62263

TEMPERATURE DISTRIBUTION ON THE SOLIDIFICATION OF SPHEROIDAL GRAPHITE CAST IRON 67-02 M14-59729

EFFECT OF CRYSTALLIZATION CONDITIONS ON THE MOSAIC MACRO- AND MICROSTRUCTURE IN METALLIC CRYSTALLITES PREPARED FROM A MELT 67-02 M14-59865

ON SURFACE POLYCRYSTALS OF CADMIUM 67-02 M14-60115

THE INFLUENCE OF LOW-FREQUENCY VIBRATION ON THE NUCLEATION OF SOLIDIFYING METALS 67-02 M14-61840

PROPERTIES OF ALUMINUM ALLOY CASTINGS PRODUCED BY PRESSING OF LIQUID CASTINGS 67-02 M17-61812

ANNUAL REVIEW OF CAST IRON WITH FLAKE GRAPHITE. PT. 3 67-03 M06-65354

HOT TEARS IN WHITE IRON CASTINGS. PT. 1 67-03 M06-65834

CONTROLLED SOLIDIFICATION 67-03 M14-65337

RAPIDLY QUENCHED --SPLAT-COOLED-- ALLOYS 67-03 M14-65338

HEAT PENETRATION IN MOLD WALL AFTER POURING 67-04 M03-68042

ELECTROTHERMAL MODELING OF THE PROCESS OF HARDENING AND HEATING RIMMED STEEL INGOTS IN SOAKING PITS 67-04 M04-67621

MODE OF LIQUID METAL FLOW DURING INGOT SOLIDIFICATION OF KILLED STEEL 67-04 M04-67723

SOLIDIFICATION OF A CASTING IN PRESSURE DIE CASTING 67-04 M06-66420

METALLURGY OF FEEDING GREY CAST IRON 67-04 M06-66890

ON CAUSES OF THE CHANGE OF DIAMETER OF SMALL SPHERICAL CASTINGS DURING SOLIDIFICATION IN SAND MOLD 67-04 M06-67115

USE OF INTERNAL COOLERS IN PRODUCTION OF STEEL CASTINGS 67-04 M06-67502

ON DIRECTIONAL FREEZING OF GRAY IRON 67-04 M06-67568

APPLICATION OF FLUID ANALOG IN FOUNDRIES 67-04 M06-68041

CHARACTERISTIC REDISTRIBUTION OF SOLUTE IN FUSION WELDING 67-04 M11-67036

A QUANTITATIVE APPROACH TO CASTING SOLIDIFICATION--FREEZING OF CAST IRON 67-04 M14-66940

SOLIDIFICATION AND MICROSEGREGATION IN KILLED STEEL INGOTS WITH PARTICULAR REFERENCE TO 1 PER CENT C, 1 1/2 PER CENT CR STEEL 67-04 M14-67025

HOW MOLTEN METALS SOLIDIFY--AN INSIDE STORY 67-04 M14-67247

CONTROLLED EUTECTICS 67-04 M14-67902

THE MECHANISM OF FORMATION OF MACROSCOPIC INCLUSIONS PRODUCED BY AIR-OXIDATION OF MOLTEN STEEL 67-05 M04-69708

INFLUENCE OF PHOSPHORUS ON GRAIN REFINEMENT OF CAST STRUCTURE OF 22 PER CENT SI-AL ALLOY 67-05 M06-68876

THE FORMATION OF MANGANESE SULFIDE IN GRAY CAST IRONS DURING SOLIDIFICATION 67-05 M06-68950

INFLUENCE OF CARBON, SILICON AND BORON ON HOT TEARING IN WHITE CAST IRON 67-05 M06-68951

THE MICROSTRUCTURE OF UNIDIRECTIONALLY SOLIDIFIED AL-CUAL2 EUTECTIC AND AL-SI EUTECTIC ALLOYS 67-05 M13-69853

THE DEPENDENCE OF THE SIZE OF THE CELLULAR INTERFACE STRUCTURE IN DILUTE BINARY ALLOYS ON SOLIDIFICATION CONDITIONS 67-05 M14-68723

CONTRIBUTION TO MELTING AND SOLIDIFICATION OF SURFACES 67-05 M14-69420

THE ELECTRON EMISSION DURING THE MELTING AND SOLIDIFICATION OF METALS 67-05 M15-69190

SOME PROBLEMS IN THE CRYSTALLIZATION OF AN INGOT FROM ELECTROSLAG REMELT. PT. 2 67-06 M04-70275

FORMATION OF THE CHILL ZONE IN INGOT SOLIDIFICATION 67-06 M06-69936

NUCLEATION OF THE EQUIAXED ZONE IN CAST METALS 67-06 M06-69937

CALCULATION OF THE EFFECT OF INDIRECT CHILL ON THE SOLIDIFICATION RATE OF CAST STEEL 67-06 M06-70850

ON THE FEEDING CHARACTERISTIC OF ALUMINUM ALLOYS. PT. 1 67-06 M06-71213

HEAT EXTRACTION BY METALLIC MOLDS DURING SOLIDIFICATION OF SIMPLE SHAPED ALUMINUM AND ITS ALLOY CASTINGS 67-06 M08-70675

DIRECT OBSERVATION OF DENDRITE REMELTING IN METAL ALLOYS 67-06 M13-69945

STUDY OF SOLIDIFICATION OF CAST IRONS 67-06 M14-70356

THE SOLIDIFICATION OF BI2TE3 AND ITS SOLID SOLUTIONS WITH BI2SE3 AND SB2TE3 UNDER THE INFLUENCE OF ULTRASONIC AGITATION 67-06 M14-70664

UNIDIRECTIONAL SOLIDIFICATION OF WHITE CAST IRON 67-06 M14-70849

THERMAL CONVECTION AND CRYSTAL GROWTH 67-06 M14-71036

ANALYSIS OF THE SOLIDIFICATION PROCESS OF STEEL IN CONTINUOUS CASTING BY ANALOG SIMULATOR. PT. 2. STUDY OF CONTINUOUS CASTING 67-07 M04-72442

PRELIMINARY EXPERIMENTS ON RATE OF SOLIDIFICATION AND THE FORMATION OF SULFIDE INCLUSIONS IN RESULFURIZED STEELS. PT. 1. INVESTIGATION INTO THE STRUCTURE OF STEEL INGOTS 67-07 M04-72497

ANALOG SIMULATOR FOR THE ANALYSIS OF THE PROCESS OF SOLIDIFICATION OF STEEL IN CONTINUOUS CASTING.

PT. 1. STUDY OF CONTINUOUS CASTING
67-07 M04-72571
INVESTIGATIONS OF THE SOLIDIFICATION OF RIMMING STEEL 67-07 M04-72895
THE BSR PROCESS AS A SUPPLEMENT TO CONTINUOUS CASTING OF STEEL 67-07 M04-73119
INFLUENCE OF INOCULATION ON CAST STRUCTURE OF LEDEBURITE ALLOY STEELS 67-07 M04-73121
MEASUREMENTS OF SOLIDIFICATION TIMES ON PLATES AND SPHERES OF DIFFERENT METALS AND THEIR SIGNIFICANCE FOR THE DESIGN OF FEEDER HEADS 67-07 M06-73491
EUTECTIC COMPOSITES BY UNIDIRECTIONAL SOLIDIFICATION 67-07 M09-73362
CONDITIONS FOR THE COLUMNAR-EQUIAXED TRANSITION DURING SOLIDIFICATION OF BINARY ALLOYS 67-07 M14-72528
TEMPERATURE FIELD OF THE FLAT WALL OF A CONTINUOUS CASTING MOLD 67-08 M06-74346
DIMENSIONAL DISTORTION IN STEEL CASTINGS 67-08 M06-74618
COPPER BASE CASTING ALLOYS. HOT TEARING AND MODE OF SOLIDIFICATION. PT. 1. HOT TEARING OF COPPER BASE ALLOYS 67-08 M06-75033
MODE OF SOLIDIFICATION OF COPPER BASE CASTING ALLOYS. PT. 2 67-08 M06-75034
CURRENT QUESTIONS ON THE RESEARCH AND USES OF THE CASTING PROPERTIES OF ALLOYS 67-08 M06-75103
DETERMINATION OF THE LINEAR PREPEARLITIC SHRINKAGE AS A METHOD FOR THE ESTIMATION OF CASTING QUALITY 67-08 M06-75104
STUDY ON PRODUCTION OF SOUND INGOT BY ACCELERATED SOLIDIFICATION 67-08 M06-75153
FEEDING TECHNIQUES FOR AL ALLOYS WITH EXTENSIVE CONTRACTION DURING SOLIDIFICATION AND MAINLY ENDOGENIC SOLIDIFICATION 67-08 M06-75677
THE MORPHOLOGY OF SOME BINARY EUTECTIC ALLOYS 67-08 M14-74519
SUPERCOOLING OF MOLTEN CAST IRON DURING EUTECTIC SOLIDIFICATION 67-08 M14-74674
RADIOGRAPHIC OBSERVATIONS OF THE SOLIDIFICATION OF METALS 67-08 M14-75138
NUCLEATION OF OXIDE PARTICLES DURING SOLIDIFICATION 67-08 M14-75315
VACUUM POURING AND SOLIDIFICATION OF CREEP RESISTING ALLOY CASTINGS 67-08 M17-74554
VERTICAL DIRECT CHILL CASTING OF INGOTS FOR WIRE APPLICATIONS 67-09 M03-76404
USE OF AUTOMATIC RECORDING DEVICES FOR DETERMINING THE SHAPE OF THE COOLING FRONT OF ALUMINUM AS SEMICONTINUOUSLY CAST 67-09 M03-77761
THE RELATIONSHIP BETWEEN BILLET MELTING TECHNIQUE AND SURFACE QUALITY IN INGOT CASTING WITH A 200-KW MULTICHAMBER, ELECTRON BEAM FURNACE 67-09 M04-77219
INVESTIGATIONS INTO THE SIGNIFICANCE OF OXYGEN TRANSFER DURING TAPPING, CASTING, EFFERVESCENCE, AND SOLIDIFICATION OF OH RIMMING STEEL 67-09 M04-77230
MATHEMATICAL STUDY OF THE SOLIDIFICATION OF SEMIMILD STEEL INGOTS 67-09 M06-76378
BEHAVIOR OF RAW INGOT SOLIDIFICATION BY VACUUM ARC MELTING 67-09 M06-77221
THERMAL ANALYSIS OF DUCTILE IRON 67-09 M06-77398
METHODS OF TREATING METAL AND STEEL MELTS BY VIBRATION WITH EMPHASIS ON GRAIN REFINEMENT BY TREATING WITH ULTRASONIC WAVES DURING SOLIDIFICATION 67-09 M06-77845
A PREMELTING PHENOMENON IN NA-K ALLOYS 67-09 M14-76591
INVESTIGATIONS CONCERNING THE QUESTION OF ELECTRON EMISSION DURING THE SOLIDIFICATION OF METAL MELTS 67-09 M14-76793
EFFECTS OF COOLING RATE DURING THE SOLIDIFICATION OF SOLID SOLUTIONS ON THE COMPOSITION OF THE AXIAL REGIONS OF DENDRITE BRANCHES 67-09 M14-76888
RESEARCH INTO THE EFFECT OF ELECTROMAGNETIC MIXING ON THE SOLIDIFICATION OF DUCTILE MAGNESIUM ALLOYS 67-09 M14-76958
INVESTIGATION OF THE LIQUID-SOLID PHASE TRANSFORMATION 67-09 M14-77005
DENDRITIC LIQUATION IN MULTICOMPONENT ALLOYS 67-09 M14-77281
INVESTIGATION OF SOLIDIFICATION IN INGOTS 67-09 M14-77344
INFLUENCE OF COPPER AND NICKEL ON THE STABLE AND METASTABLE EUTECTIC TEMPERATURES OF CAST IRON 67-09 M14-77837
THE EFFECT OF ALUMINA ADDITIONS ON THE PROPERTIES OF SINTERS CONTAINING MAGNESIUM 67-09 M15-77497
CORRECT CASTING DESIGN AS A PREREQUISITE OF HIGH-QUALITY CASTINGS 67-10 M06-78642
EFFECT OF RISERING ON THE MICROPOROSITY OF IRON CASTINGS 67-10 M06-79560
FOUNDRY DEFECTS--A MEMORANDUM 67-10 M06-79692
CONTROLLED SOLIDFICATION 67-10 M06-79693
METALLOGRAPHY OF CAST IRON 67-10 M13-79218
SOLIDIFICATION OF HIGHLY UNDERCOOLED CASTINGS 67-10 M14-79294
CAST STRUCTURE AND HOMOGENEITY OF INGOTS REMELTED BY SPECIAL TECHNIQUES 67-11 M04-80213
APPLICATION EXPERIMENTS OF THE ACCELERATED SOLIDIFICATION PROCESS TO SLAB INGOTS AND LARGE FORGING INGOTS 67-11 M04-80794
RESEARCH ON THE BEHAVIOR OF CAST METALS IN MOLD CAVITIES BY THE COLOR METHOD 67-11 M06-81696
SOLIDIFICATION STRUCTURES IN DIRECTIONALLY FROZEN INGOTS 67-11 M13-81333
GROWTH OF IRON-CARBON EUTECTIC 67-11 M14-81069
OBSERVATION OF SOLIDIFICATION AND MELTING PHENOMENA IN METALS USING THE ELECTRON MICROSCOPE 67-11 M14-81275
HETEROGENEOUS NUCLEATION OF UNDERCOOLED SILVER 67-11 M14-81351
CHANGE IN SOLIDIFICATION PARAMETERS OF STEEL INGOTS AND THEIR CONNECTION WITH CHEMICAL HETEROGENEITY 67-11 M14-81411
THE EFFECT OF UNIDIRECTIONAL SOLIDIFICATION ON THE PROPERTIES OF CAST NICKEL-BASE SUPERALLOYS 67-11 M17-81335
AN INTEGRAL PROFILE METHOD FOR THE ANALYSIS OF HEAT FLOW IN THE CONTINUOUS CASTING OF METALS 67-12 M03-83082
CALCULATING THE SOLIDIFICATION OF RECTANGULAR STEEL INGOTS 67-12 M04-81725
SECONDARY COOLING IN CONTINUOUS CASTING AND ITS INFLUENCE ON SOLIDIFICATION PARAMETERS 67-12 M04-82384
ELECTRICAL MODEL OF STEEL INGOT SOLIDIFICATION AND HEATING PROCESSES 67-12 M04-83472
HOT TEARING OF STEEL INGOTS 67-12 M04-83570
STUDIES ON THE SOLIDIFICATION PROCESS OF THE ALUMINUM-SILICON ALLOYS 67-12 M06-82103
RESEARCH ON THE BEHAVIOR OF CAST METALS IN MOLD CAVITIES BY COLOR METHOD 67-12 M06-82449
MACROSEGREGATION. PT. 1 67-12 M06-82766
FOUNDRY TECHNIQUES 67-12 M06-82834
A STUDY ON THE AIR GAP DURING SOLIDIFICATION OF ALUMINUM ALLOY IN THE METALLIC MOLD 67-12 M06-83111
STRESS AND STRAIN RATE DURING SOLIDIFICATION OF SPHERE CASTINGS 67-12 M06-83569
THE CARBIDE PHASES IN MAR-M200 67-12 M13-82562
SOME OBSERVATIONS ON THE STRUCTURE OF THE EQUIAXED ZONE IN ALUMINUM-COPPER ALLOYS 67-12 M13-82769
APPARENT PORE FORMATION DURING CELLULAR SOLIDIFICATION 67-12 M13-82874
INFLUENCE OF ELASTIC VIBRATION ON THE SOLIDIFICATION OF METALS AND ALLOYS 67-12 M14-82114
METHODS OF DETERMINING THE COEFFICIENT OF IMPURITY DISTRIBUTION IN DIRECTIONAL SOLIDIFICATION 67-12 M14-82332
THE MECHANISMS OF CRYSTAL MULTIPLICATION DURING SOLIDIFICATION IN THE PRESENCE OF FLUID MOTION 67-12 M14-82569
THE EFFECT OF AN ELECTRIC FIELD UPON SOLUTE REDISTRIBUTION DURING SOLIDIFICATION OF BI-SN ALLOYS 67-12 M14-82968
EFFECT OF CURRENT DENSITY ON FIELD-FREEZING EXPERIMENTS 67-12 M14-82982
PHENOMENOLOGICAL THERMODYNAMICS OF MELTING AND SOLIDIFICATION 67-12 M15-82502
THE EFFECT OF FIBER ORIENTATION AND MORPHOLOGY ON THE TENSILE BEHAVIOR OF AL3NI WHISKER REINFORCED ALUMINUM 67-12 M17-82129

SOLIDIFICATION, ALLOYING EFFECTS
INFLUENCE OF SOLIDIFICATION RATE ON GRAIN REFINEMENT OF CAST STRUCTURE OF 22 PER CENT SI-AL ALLOY WITH OR WITHOUT PHOSPHORUS ADDITIONS 67-05 M06-68875
SOLIDIFICATION OF SIMPLE SHAPED ALUMINUM AND ITS ALLOY CASTINGS IN METALLIC MOLDS 67-06 M06-72187

SOLIDIFICATION

EFFECT OF CU IN GRAY CAST IRONS
67-06 M17-71980
EFFECT OF THE SOLUTE CONTENT ON THE DENDRITIC STRUCTURE IN COLUMNAR CRYSTALS OF BINARY ALLOY
67-09 M14-78230
SOLIDIFICATION OF THE ALUMINUM-SILICON ALLOYS AND THE EFFECT OF ADDITION ELEMENTS. PT. 1
67-10 M14-79082
THE EFFECT OF THE FOUR MOST IMPORTANT ALLOYING ELEMENTS OF CAST IRON 67-11 M14-81384
SOLIDIFICATION OF THE ALUMINIUM SILICON ALLOYS AND THE EFFECT OF ADDITION ELEMENTS. PT. 2
67-12 M14-81966

SOLIDIFICATION, CONTROLLED ATMOSPHERES
CONTROLLED SOLIDIFICATION. PT. 4
67-09 M06-77842

SOLIDIFICATION, COOLING EFFECTS
THE EFFECT OF SECONDARY COOLING ON THE GROWTH OF THE WALL THICKNESS IN CONTINUOUS CASTING
67-02 M14-59132
SIMULATING SOLIDIFICATION AND HEATING PROCESSES IN RETANGULAR INGOTS
67-08 M06-74593
EXPERIMENTAL STUDY OF THE VALIDITY OF CLASSICAL HYPOTHESES CONCERNING HEAT TRANSMISSION
67-08 M06-76231

SOLIDIFICATION, DIFFUSION EFFECTS
GROWTH OF THE SOLID-LIQUID REGION DURING ONE-DIMENSIONAL SOLIDIFICATION OF BINARY ALLOYS. PT. 1
67-12 M14-82745

SOLIDIFICATION, HEATING EFFECTS
STRUCTURAL EVOLUTION OF CENTRIFUGALLY CAST 25CR-20NI-TYPE STEELS DURING PROLONGED HOLDING AT HIGH TEMPERATURE 67-11 M14-80243

SOLIDIFICATION, IMPURITY EFFECTS
THE RECIPROCAL INFLUENCES OF SOME TE IMPURITIES UPON THEIR SEGREGATIONIST BEHAVIOR
67-07 M03-73834

SOLIDIFICATION, MAGNETIC PROPERTIES
EFFECTS OF STRONG MAGNETIC FIELD ON THE SOLIDIFICATION OF ALUMINUM ALLOYS
67-12 M15-81901

SOLIDIFICATION, PRESSURE EFFECTS
SHRINKAGE PRESSURE IN CASTINGS--THE SOLIDIFICATION OF A METAL SPHERE 67-06 M14-69925

SOLIDIFICATION, ULTRASONICS
TREATING BORON STEELS BY ELASTIC VIBRATIONS
67-02 M06-61960
TREATMENT OF BORON STEELS USING ULTRASONIC VIBRATIONS 67-04 M06-67781

SOLIDIFICATION, WELDING EFFECTS
SOLIDIFICATION AND SEGREGATION IN WELDING OF BINARY ALLOYS 67-06 M11-70135

SOLIDIFICATION POINT
SOLIDIFICATION TEMPERATURES OF PERMANENT MAGNET ALLOYS 67-04 M14-67949
TEMPERATURE MEASUREMENTS AND FLUID FLOW DISTRIBUTIONS AHEAD OF SOLID-LIQUID INTERFACES
67-12 M14-82744

SOLIDUS
CALCULATION OF SOLIDUS CURVES IN BINARY SYSTEMS OF GERMANIUM, SILICON AND ON THE A3B5-METAL SECTIONS
67-05 M13-68405
A PREMELTING PHENOMENON IN NA-K ALLOYS
67-09 M14-76591
POSSIBLE RELATIONSHIP BETWEEN PHASE-DIAGRAM AND SOME VACANCY CHARACTERISTICS IN BINARY ALLOYS
67-11 M14-81260

SOLUBILITY
SEE ALSO SOLID SOLUBILITY
THE EFFECT OF GAS CONTENT IN ALUMINUM MELTS ON THE QUALITY OF CASTINGS 67-01 M06-58227
PERMEABILITY, SOLUBILITY, AND DIFFUSIVITY OF OXYGEN IN BCC IRON 67-01 M14-57410
NITROGEN ABSORPTION IN GAMMA IRON AND IRON-LANTHANUM ALLOYS 67-01 M14-58558
SOLUBILITY STUDIES OF ULTRA PURE TRANSITION ELEMENTS IN ULTRA PURE ALKALI METALS
67-01 M15-58508
HYDROGEN SOLUBILITY IN ZIRCONIUM ALLOYS
67-02 M14-59019
THE METAL RICH PARTS OF THE SYSTEMS TA-C, NB-C AND V-C 67-02 M14-60120
VAPOR PRESSURE MEASUREMENTS ON BISMUTH-SELENIUM ALLOYS 67-02 M15-59990
A CALORIMETRIC INVESTIGATION OF LIQUID GOLD-TIN ALLOYS 67-02 M15-60647
SOLUBILITY OF SODIUM HYDROALUMOSILICATE IN ALUMINATE SOLUTIONS 67-03 M03-65779
THE SOLUBILITY OF NITROGEN IN MULTICOMPONENT LIQUID IRON ALLOYS 67-03 M14-65081
THE SOLUBILITY OF TANTALUM AND TUNGSTEN IN LIQUID RARE-EARTH METALS 67-03 M14-65131
ON THE EFFECT OF TIO2 ADDITIONS ON SINTERING OF UO2
67-03 M14-65857
INTERACTION OF NITROGEN WITH TYPE KH20N80 NICKEL-CHROMIUM MELTS 67-03 M14-65960
SOLUBILITY OF ZNSE AND ZNTE IN GA AND IN
67-03 M16-65388
THE RHENIUM-CHROMIUM-CARBON SYSTEM
67-04 M13-67341
THE SOLUBILITY OF IMPURITIES IN IN2TE3
67-04 M14-66028
SOLUBILITY OF NB PRECIPITATES IN AUSTENITE, IN THE CASE OF LOW-CARBON STRUCTURAL STEELS WITH SMALL NB QUANTITIES 67-04 M14-66352
DISSOLUTION OF THE PHASES IN THE NICKEL-GOLD SYSTEM DURING ISOTHERMAL ANNEALING
67-04 M14-66391
DIFFUSIVITY AND SOLUBILITY LIMIT OF COPPER IN ALPHA AND GAMMA IRON 67-04 M14-67267
ON THE SOLUBILITY OF THE NITRIDES OF CHROMIUM, VANADIUM AND ALUMINUM IN AUSTENITE
67-04 M14-67391
ALLOY COMPOSITIONS OF HFB2 WITH URANIUM AND TRANSITION METAL BORIDES 67-04 M14-67453
STUDY OF THE EQUILIBRIUM OF FOUR SOLID PHASES IN THE TERNARY SYSTEM U-C-SI 67-04 M14-67454
SOLUBILITY OF GASES IN REFRACTORY METALS AND PRECIPITATION FROM SUPERSATURATED SOLID SOLUTIONS
67-04 M14-67547
EFFECT OF CARBON, SILICON, PHOSPHORUS AND NICKEL ON THE SOLUBILITY OF HYDROGEN IN LIQUID IRON
67-04 M15-67181
NONMETALLIC ELEMENTS DISSOLVED IN MOLTEN ALLOY STEELS 67-05 M04-68471
ISOTOPE EFFECTS IN THE DIFFUSION AND SOLUBILITY OF HYDROGEN IN NICKEL 67-05 M14-69674
DIFFUSION AND SOLUBILITY OF HYDROGEN IN SINGLE CRYSTALS OF NICKEL AND NICKEL-VANADIUM ALLOY
67-05 M14-69675
WETTING OF SOLID-METAL SURFACES BY MOLTEN METALS
67-05 M15-69561
STUDY OF THE CHEMICAL COMPOSITION AND STRUCTURE OF ALUMINOSODIUM SILICATES AND WAYS OF REDUCING SODIUM LOSSES IN THE BAYER PROCESS
67-06 M03-70915
A STUDY OF TIN AND LEAD DISTRIBUTION AMONG SMELTING PRODUCTS 67-06 M03-71346
STUDY ON THE DISSOLUTION OF SUSPENDED OXIDE PARTICLES IN MOLTEN IRON 67-06 M04-71746
SOLUBILITY OF THE DISILICIDES OF THE TRANSITION METALS IN MOSI2 AND WSI2 67-06 M13-70776
DIFFUSION OF OXYGEN AND NITROGEN IN LIQUID IRON
67-06 M14-69924
SOLUBILITY OF RARE EARTH METALS IN IRON
67-06 M14-69985
PHASE CHEMICAL ANALYSIS OF ALLOYS OF THE ZRO2-ZRC AND ZRO2-TIC SYSTEM 67-06 M14-69995
SULPHUR POTENTIALS IN IRON AND IN IRON-MANGANESE ALLOYS 67-06 M14-70805
DIFFUSION AND SOLUBILITY OF ZINC, CADMIUM, INDIUM AND IRON IN LEAD SELENIDE 67-06 M14-70939
A STUDY OF NITROGEN IN A CHROMIUM-YTTRIUM ALLOY
67-06 M14-71606
THE SOLUBILITIES OF CARBON, TANTALUM, TUNGSTEN AND RHENIUM IN LIQUID PLUTONIUM 67-06 M15-70890
THE SOLUBILITY OF AU IN AL AND THE PRECIPITATION HARDENING OF AL-AU ALLOYS 67-07 M10-73848
THE SYSTEM UO2-EU2O3 AT HIGH TEMPERATURES
67-07 M13-74233
THE CHEMISTRY OF HYDROGEN IN LIQUID-ALKALI-METAL MIXTURES USEFUL AS NUCLEAR REACTOR COOLANTS. PT. 1. SODIUM-POTASSIUM EUTECTIC
67-07 M14-74298
STUDY ON SOLUBILITY OF HYDROGEN IN TITANIUM AT 900 TO 1500 C 67-07 M15-72531
CONSTITUTION OF ALLOYS 67-08 M13-74803
PHASE DIAGRAMS 67-08 M13-74812
SOLUBILITY OF HYDROGEN IN TITANIUM AT 900 TO 1500 C
67-08 M14-74412
INTERMETALLIC COMPOUND FORMATION BETWEEN COBALT AND ZINC IN MERCURY 67-08 M14-74677
ON THE SOLUBILITY OF SODIUM-CALCIUM HYDROSILICATE IN ALKALIS AND ALUMINATE SOLUTIONS
67-08 M14-75018
THE SOLUBILITY OF CARBON AND GASES IN METALS
67-08 M14-75029

COMPARISON OF HYDROGEN AND DEUTERIUM SOLUBILITY IN PALLADIUM-RICH ALLOYS. GOLD-PALLADIUM
67-08 M14-75385
SOLUBILITY OF HYDROGEN IN LIQUID NICKEL
67-08 M14-75406
CARBON SOLUBILITY IN LIQUID METALS OF THE SIXTH PEROID
67-08 M15-74323
NITROGEN-BEARING SINTERED PRODUCTS AND MELTED ALLOYS
67-09 M04-77582
PRODUCING CHROMIUM-MAGNESIUM NITROGEN-ALLOYED AUSTENITIC STEEL
67-09 M04-77860
AN ORDERED SOLID SOLUTION IN THE CHROMIUM-MOLYBDENUM SYSTEM
67-09 M13-76935
THE SOLUBILITY OF IRON IN MAGNESIUM
67-09 M13-77272
A STUDY OF PLUTONIUM OXIDES AND THEIR SOLUBILITY IN URANIUM DIOXIDE
67-09 M14-76346
PHASE RELATIONS IN THE ZRO2-MGO SYSTEM
67-09 M14-76751
INTERACTION OF MERCURY WITH METALS AND ALLOYS
67-09 M14-76839
RESEARCH INTO THE SOLUBILITY OF CERIUM IN BERYLLIUM
67-09 M14-76951
DETERMINING THE ABSOLUTE SOLUBILITY OF OXYGEN IN MOLTEN IRON, COBALT AND NICKEL
67-09 M14-77271
THE SOLUBILITY OF CEMENTITE PRECIPITATES IN ALPHA IRON
67-09 M14-77724
RATE OF SOLUTION OF ROTATING TANTALUM DISKS IN LIQUID TIN
67-09 M14-77890
ELECTROLYTIC DISSOLUTION OF BINARY ALLOYS CONTAINING A NOBLE METAL
67-09 M14-77892
DIFFUSION OF HYDROGEN IN ALPHA-IRON AT ABOUT 120 K
67-09 M14-77934
MEASUREMENT OF CARBON SOLUBILITY AND ELECTROCHEMICAL DETERMINATION OF MANGANESE ACTIVITY IN CARBON-SATURATED MN-CO-C AND MN-NI-C SYSTEMS AT 1320 C
67-09 M14-78014
METALS REFERENCE BOOK. V. 2
67-10 M01-79103
STRUCTURAL CHARACTERISTICS OF SOLID SOLUTIONS OF CHROMIUM DISILICIDE WITH VANADIUM AND TITANIUM DISILICIDES
67-10 M13-78996
HYDROGEN IN CASTING ALLOYS OF ZINC WITH ALUMINUM AND COPPER
67-10 M14-79655
HYDROGEN SOLUBILITY IN LIQUID IRON ALLOYS
67-10 M14-79773
KINETIC STUDY OF THE ABSORPTION OF OXYGEN FROM THE AIR BY LIQUID SILVER
67-10 M14-79924
SOLUBILITY OF CARBON IN COPPER-MANGANESE ALLOYS IN THE LIQUID STATE BETWEEN 1000 AND 1250 C
67-10 M14-79925
ON THE SOLUBILITY OF VANADIUM PENTOXIDE IN ALUMINATE SOLUTIONS
67-10 M14-80059
THE SOLUBILITY OF OXYGEN IN LIQUID COBALT AND NICKEL
67-10 M14-80076
SOLUBILITY OF NITROGEN AND FORMATION CONDITIONS OF ALUMINUM AND TITANIUM NITRIDES IN KH20N80 ALLOY
67-10 M14-80077
ELECTRICAL AND TRANSPORT PROPERTIES OF CU IN INAS
67-10 M15-79968
EXPERIMENTAL STUDY OF THE EFFECT OF CONSTANT ELECTRIC FIELD ON THE SOLUBILITY OF CERTAIN PYRITE ORES
67-11 M03-81508
ON THE SOLUBILITIES OF FERRIC OXIDES AND OTHER SLAG FORMERS IN COPPER MATTE
67-11 M13-81452
DIFFUSION AND SOLUBILITY IN GALLIUM ANTIMONIDE
67-11 M14-80626
SOLUBILITY OF HYDROGEN IN LIQUID IRON AND IN SOME LIQUID BINARY IRON ALLOYS
67-11 M14-80943
MEASURING THE SOLUBILITY OF NICKEL IN SILICATE MELTS BY THE ELECTROMOTIVE FORCE METHOD
67-11 M14-81153
THE SOLUBILITY OF LATHANUM IN SILVER
67-11 M14-81175
SOLUBILITY OF HYDROGEN IN POROUS POLYCRYSTALLINE ALUMINUM OXIDE
67-11 M14-81558
THE PLUTONIUM-LANTHANUM SYSTEM
67-12 M13-82868
THE SOLUBILITY OF HYDROGEN IN MOLTEN NICKEL
67-12 M14-82027
SOLUBILITY OF HYDROGEN IN TITANIUM
67-12 M14-82164
SOLUBILITY OF HYDROGEN IN LIQUID TITANIUM AND NICKEL
67-12 M14-82165
SOLUBILITY OF HYDROGEN IN SOLID COPPER, SILVER, AND GOLD OBTAINED BY A RAPID QUENCH AND EXTRACTION TECHNIQUE
67-12 M14-82567
THE SOLUBILITY OF CHROMIUM IN LIQUID SILVER AND MOLYBDENUM AND TUNGSTEN IN LIQUID TIN
67-12 M14-82726
TEMPERATURE MEASUREMENTS AND FLUID FLOW DISTRIBUTIONS AHEAD OF SOLID-LIQUID INTERFACES
67-12 M14-82744
HYDROGEN SOLUBILITY IN ALPHA TI-O ALLOYS
67-12 M14-82747
THE DIFFUSIVITY OF OXYGEN IN LIQUID SILVER
67-12 M14-82984
ELECTROMIGRATION OF HYDROGEN ISOTOPES DISSOLVED IN
67-12 M15-82729
EQUIVALENT EFFECT OF ADDITION ELEMENTS ON ALLOYS FE-N-XI AT 1600 C SOLUBILITY, ACTIVITY, AND ACTIVITY COEFFICIENTS OF NITROGEN IN IRON-RICH MELTS. PT. 1. TERNARY
67-12 M15-83392

SOLUBILITY, ALLOYING EFFECTS
EFFECT OF VARIOUS ELEMENTS ON THE GAS SATURATION OF NICKEL AND ITS ALLOYS
67-02 M14-61555
THE SOLUBILITY OF NITROGEN IN MOLTEN IRON ALLOYS BY ARC AND LEVITATION MELTING
67-04 M14-67588
SOLUBILITY OF HYDROGEN IN LIQUID IRON ALLOYS
67-06 M14-70583
THE SOLUBILITY OF SULFUR IN SILICON-IRON
67-06 M15-69946
THE SOLUBILITY AND DIFFUSION OF HYDROGEN IN IRON ALLOYS
67-07 M14-72684
EFFECT OF CERTAIN ELEMENTS ON HYDROGEN SOLUBILITY IN MOLTEN IRON
67-08 M15-75867
THE SOLUBILITY OF LEAD IN LIQUID ALUMINUM ALLOYS AT DIFFERENT TEMPERATURES
67-11 M14-81636
THE EFFECT OF PHOSPHORUS ON THE NITROGEN SOLUBILITY AND DIFFUSIVITY IN ALPHA IRON
67-12 M14-82714

SOLUBILITY, COOLING EFFECTS
INFLUENCE OF THE THIRD COMPONENT ON THE STATE OF SOLID SOLUTION IN AL-CR SYSTEM PRODUCED BY HIGH COOLING RATES
67-10 M14-79139

SOLUBILITY, HEATING EFFECTS
THE EFFECT OF VARIOUS HEAT TREATMENTS ON THE SOLUBILITY OF C IN ALPHA FE AND THE ELIMINATION OF AGING IN LOW CARBON STEELS
67-10 M10-78591

SOLUBILITY, PRESSURE EFFECTS
INVESTIGATION OF THE ACTIVITY OF PHOSPHORUS IN LIQUID IRON
67-08 M14-75658

SOLUBILITY, TEMPERATURE EFFECTS
THE SOLUBILITY OF INDIUM IN LIQUID SODIUM
67-12 M14-82875

SOLUTES
CHARACTERISTIC REDISTRIBUTION OF SOLUTE IN FUSION WELDING
67-04 M11-67036

SOLUTION ANNEALING
STRUCTURE OF ACID-RESISTING AUSTENITIC CHROMIUM-NICKEL-MOLYBDENUM STEEL X 5 CRNIMO 17 13 AND STRUCTURAL CHANGES
67-07 M14-73025
DETERMINATION OF THE OPTIMUM TEMPERING TREATMENT FOR A PERMANENT MAGNETIC ALLOY OF THE ALNICO 160 TYPE
67-09 M15-76703

SOLUTION ENTROPY
SEE ENTROPY OF SOLUTION

SOLUTION HARDENING
SEE SOLUTION STRENGTHENING

SOLUTION HEAT TREATMENT
HEAT TREATMENT OF COPPER--BERYLLIUM ALLOYS
67-02 M10-59831
FORGING AND SOLUTION TREATING ALLOY 718
67-03 M10-65977
IMPROVED HIGH-STRENGTH ALUMINUM FORGING ALLOY
67-04 M10-68132
HEAT TREATMENT OF CU-CR AND CU-CO-SI ALLOYS
67-05 M10-68457
OPTIMIZING HEAT TREATMENTS FOR PRECIPITATION HARDENING SUPERALLOYS
67-05 M10-68676
HEAT TREATMENT OF NONFERROUS ALLOYS
67-06 M10-71935
THE INFLUENCE OF THERMOMECHANICAL TREATMENTS ON THE MICROSTRUCTURE AND TENSILE PROPERTIES OF HASTELLOY X-280
67-06 M17-69934
HIGH STRENGTH MAGNESIUM ALLOY
67-07 M10-74166
HEAT TREATING ALUMINUM CASTINGS
67-08 M10-75747
STUDY ON HIGH-STRENGTH CASTING AL-SI-MG-ZN ALLOYS. PT. 1
67-08 M17-75357
INFLUENCE OF DEFORMATION AFTER QUENCHING ON THE MECHANICAL PROPERTIES AND CREEP STRENGTH OF ALUMINUM ALLOYS USED IN AERONAUTICS
67-09 M17-76381
HEAT TREATING NICKEL-BASE SUPERALLOYS
67-10 M10-78759
THE PRECIPITATION IN ALUMINUM-ZINC-MAGNESIUM ALLOYS

SOLUTION HEAT TREATMENT
67-10 M10-79147
PROCESSING PRECIPITATION HARDENING GRADES
67-10 M10-79760
DIRECT OBSERVATION OF PRECIPITATION IN A CU-2.3 PER CENT FE
67-11 M10-80949
INFLUENCE OF WORK HARDENING AND SOLUTION HEAT TREATMENT ON THE KINETICS OF SENSITIZATION OF AN 18-8 STEEL
67-11 M18-80242
THE MICROYIELD STRENGTH OF BERYLLIUM-IRON ALLOYS
67-12 M17-82588
SOLUTION STRENGTHENING
THE PROPERTIES OF LOW-CARBON IRON-NICKEL-CHROMIUM MARTENSITES
67-02 M17-59426
SOLUTION HARDENING IN NIOBIUM
67-03 M14-65221
STRENGTHENING MECHANISMS--METALS AND CERAMICS
67-03 M17-65328
EFFECT OF CHROMIUM AND COBALT ON ROLLING TEXTURE OF IRON
67-04 M07-66620
SUBSTITUTIONAL SOLUTION HARDENING OF COPPER
67-04 M14-66073
ALLOY HARDENING IN ALPHA CU-AL SINGLE CRYSTALS AT LOW TEMPERATURES
67-04 M14-66271
BEHAVIOR OF CHANGES OF PRECIPITATE OF NI-BASE HEAT RESISTING NO. 64BC ALLOY
67-04 M14-67567
AGING STRUCTURE AND HIGH-TEMPERATURE STRENGTH OF 18 CR-12 NI HEAT RESISTING STEEL CONTAINING BORON
67-04 M17-67565
STRENGTHENING MECHANISMS IN STEELS
67-05 M14-68472
CR203 SOLID SOLUTION HARDENING OF AL203
67-05 M14-68612
ON THE STRENGTH OF AL-RICH AL-AG SOLID SOLUTION WHICH CAUSED THE DIFFERENCE IN THE CONCENTRATION DISTRIBUTION OF THE SOLUTE ATOM
67-05 M14-69852
EFFECTS OF CARBIDE SIZE AND SPACING ON INTERSTITIAL AND CARBIDE STRENGTHENING IN A 0.3 PER CENT C STEEL
67-06 M14-70812
SOLID-SOLUTION STRENGTHENING IN IRON-BASE ALLOYS
67-06 M14-71608
THEORY OF STRENGTHENING OF METALS
67-08 M14-74686
CHEMICALLY STRENGTHENED, LEACHED ALUMINA AND SPINEL
67-08 M17-76090
HARDENING MECHANISMS IN A PRECIPITATION HARDENABLE NICKEL-12.71 AT. PER CENT ALUMINIUM ALLOY
67-10 M14-78911
THE EFFECTS OF SOLUTES ON THE FRACTURE BEHAVIOR OF METALS
67-11 M17-80143
THE FLOW STRESS OF BODY-CENTERED CUBIC METALS INHERENT LATTICE HARDENING OR SOLUTION HARDENING
67-11 M17-81596
SOLUTION STRENGTHENING, ALLOYING EFFECTS
HOW STRUCTURAL STEELS ARE STRENGTHENED BY VANADIUM
67-10 M17-78955
SOLUTION STRENGTHENING, STRESS EFFECTS
SOLUTION-HARDENING IN SILVER-BASE ALLOYS
67-08 M14-75331
SOLVATION
SEE DISSOLVING
SOLVENT ACTION
MECHANIZATION AND AUTOMATION IN SOLVENT DEGREASING PROCESSES
67-06 M12-70199
SOLVENT EXTRACTION
RECENT DEVELOPMENTS IN SOLVENT EXTRACTION TECHNOLOGY
67-02 M03-61586
THE EXTRACTION OF GALLIUM CHLORIDE BY TRIBUTYL PHOSPHATE AND THE RECOVERY OF GALLIUM FROM BAYER LIQUOR
67-06 M03-71060
SOLVENT EXTRACTION STUDY MAY PAVE WAY FOR PROCESSING BULK SULPHIDE CONCENTRATES
67-06 M03-71497
AQUEOUS CHEMISTRY OF ZIRCONIUM--SOLVENT EXTRACTION AND ION EXCHANGE STUDIES
67-06 M03-72044
READYING THE SWITCH TO ZIRCONIUM
67-07 M03-73212
EXTRACTION OF MOLYBDENUM AND TUNGSTEN FROM ACID SOLUTIONS
67-07 M03-73408
THE SEPARATION AND PREPARATION OF PU238 FROM NEUTRON IRRADIATED NP237 TARGET
67-07 M03-74014
PREPARATION OF HIGH-PURITY BERYLLIUM COMPOUNDS BY SOLVENT EXTRACTION
67-07 M03-74296
RECOVERY OF BERYLLIUM FROM ACID LEACHES OF BERYL BY SOLVENT EXTRACTION
67-07 M03-74297
PLUTONIUM RECOVERY FROM SCRAP
67-08 M03-74927
STUDIES ON THE SOLVENT EXTRACTION OF ACTINIDE ELEMENTS BY ORGANOPHOSPHORUS COMPOUNDS
67-08 M03-75302
LARGE SCALE PROCESSING OF HIGHLY IRRADIATED PLUTONIUM BY SOLVENT EXTRACTION AND ION EXCHANGE
67-09 M03-76474
THE RECOVERY OF COBALT BY THE SOLUBLE COBALTIC AMMINE PROCESS
67-09 M03-76740
SEPARATION AND PURIFICATION OF THORIUM FROM EGYPTIAN MONAZITE SANDS
67-10 M03-79053
THE EXTRACTION OF RARE METALS FROM FLUE DUSTS
67-10 M03-79075
EXTRACTION OF ZIRCONIUM FROM HYDROCHLORIC ACID SOLUTIONS BY DI-N-PENTYL SULPHOXIDE
67-10 M03-79377
APPLICATION OF SOLVENT EXTRACTION TO THE REFINING OF PRECIOUS METALS. PT. 1. PURIFICATION OF RHODIUM
67-11 M03-80310
STUDIES OF ACTINIUM --3-- IN VARIOUS SOLUTIONS. PT. 1. SEPARATION AND PURIFICATION OF AC228 IN RA228 SOLUTIONS BY SOLVENT EXTRACTION METHOD
67-11 M16-80197
PRECONCENTRATION IN TRACE ANALYSIS
67-11 M19-80139
APPLICATION OF LIQUID-LIQUID EXTRACTION TO THE TREATMENT OF IRRADIATED FUELS. PT. 1. PHYSICO-CHEMICAL ASPECTS
67-12 M16-82280
SOLVUS /METALLURGICAL/
SEE SOLID SOLUBILITY
SONIC DRILLING
SEE ULTRASONIC MACHINING
SONIC TESTING
SEE ACOUSTIC MEASUREMENT
SORPTION
SEE ALSO ABSORPTION /MATERIAL/
ADSORPTION
CHEMISORPTION
STUDY OF THE SORPTION AND SEPARATION OF IONS OF CERTAIN METALS BY PHOSPHORYLIZED CELLULOSE
67-05 M03-68969
MECHANISM OF SORPTION OF INERT-GAS IONS BY TITANIUM
67-06 M15-70493
IMPACT ACTIVATED SORPTION AS A MEANS FOR GAS INCORPORATION IN SPUTTERED THIN FILMS
67-08 M14-75162
SORPTION AND PROTECTIVE PROPERTIES OF ANODIC OXIDE FILMS ON ALUMINUM AFTER FILLING THEM WITH WATER
67-11 M14-81290
SOUND
SEE SOUND WAVES
SOUND WAVES
SEE ALSO LAMB WAVES
SHOCK WAVES
DISPERSION OF TRANSVERSE SOUND IN SUPERCONDUCTORS
67-01 M16-57962
MAGNETOACOUSTIC ATTENUATION OF CIRCULARLY POLARIZED ULTRASOUND IN SN, AL, AND SB
67-02 M15-60767
MAGNETO-ACOUSTIC EFFECTS IN N-INSB AT 9 GHZ
67-04 M16-66798
DETERMINATION OF THE ENERGY BAND PARAMETERS OF BISMUTH BY GIANT QUANTUM ATTENUATION OF SOUND WAVES
67-04 M16-66799
ELECTRONIC ACOUSTIC ATTENUATION FOR --001-- LONGITUDINAL WAVE PROPAGATION IN COPPER
67-05 M16-69374
GIANT QUANTUM OSCILLATIONS OF THE ABSORPTION COEFFICIENT OF ULTRASOUND IN ANTIMONY
67-06 M16-71766
HELICONS AND ACOUSTIC SHEAR WAVES IN AL
67-08 M16-75831
ATTENUATION OF TRANSVERSE ULTRASOUND IN COPPER
67-09 M16-77160
SOUNDPROOFING
SEE ACOUSTIC INSULATION
SPACE CHARGE
SPACE-CHARGE CURRENTS IN N-TYPE GAAS
67-05 M16-69298
UNIT-CUBE EXPRESSION FOR SPACE-CHARGE RESISTANCE
67-08 M16-75708
SPACE ENVIRONMENT
INFLUENCE OF BOOST GLIDE REENTRY VEHICLE ENVIRONMENT ON COATED AND BASE REFRACTORY METALS
67-04 M18-67214
OPERATING GEARS IN A SIMULATED SPACE VACUUM--THE VACUUM FACILITY AND SEVERAL TECHNIQUES
67-07 M17-72758
SPACE LATTICES
SEE CRYSTAL LATTICES
SPACE PROPULSION
SEE PROPULSION SYSTEMS
SPACE SHIPS

SEE SPACECRAFT
SPACE SIMULATION TESTING
OPERATING GEARS IN A SIMULATED SPACE VACUUM--THE VACUUM FACILITY AND SEVERAL TECHNIQUES 67-07 M17-72758
SPACE VEHICLES
SEE SPACECRAFT
SPACECRAFT
SEE ALSO COMMUNICATION SATELLITES
SATELLITES /ARTIFICIAL/
ADHESIVE BONDS IN AIRCRAFT AND SPACECRAFT MANUFACTURE 67-01 M11-58265
EVALUATION OF MATERIALS FOR CRYOGENIC PROPELLANT TANKAGE 67-01 M17-58344
DEVELOPMENT AND EVALUATION OF MAGNETIC AND ELECTRICAL MATERIALS CAPABLE OF OPERATING IN THE 800 TO 1600 F. TEMPERATURE RANGE 67-03 M15-65901
DEVELOPMENT AND EVALUATION OF MAGNETIC AND ELECTRICAL MATERIALS CAPABLE OF OPERATING IN THE 800 TO 1600 F. TEMPERATURE RANGE 67-06 M01-71855
WHICH DIAMOND WHEEL FOR SPACE AGE CERAMICS 67-06 M08-72029
SILVER-BASE TERNARY ALLOY PROVES SUPERIOR FOR SLIP RING LEAD WIRES 67-06 M15-70010
AEROSPACE APPLICATIONS OF REFRACTORY METALS 67-06 M20-72074
ADHESIVE BONDING--HOW IT IMPROVED APOLLO 67-07 M11-72989
CHEMICAL MILLING OF SPACE, FLIGHT HARDWARE 67-10 M08-78338
EXTREMES IN ENVIRONMENTAL TESTING 67-11 M17-81239
FUEL TANKS FOR MOON SHOT--TIG-WELDED TITANIUM 67-12 M11-81931
FIRST CODE STAMPED PRESSURE VESSEL OF 7039 67-12 M11-81932
METALS FOR THE SPACE AGE 67-12 M20-83001
SPACECRAFT, COATING
THE PLATING OF SPACE VEHICLES WITH PRECIOUS METALS 67-12 M12-82936
SPACECRAFT, FAILURE
AN ANALYSIS OF FAILURES IN SPACECRAFT 67-05 M17-68682
SPACECRAFT, MATERIALS
THE DEVELOPMENT AND EVALUATION OF HYPEREUTECTIC CARBIDES 67-02 M05-60712
BERYLLIUM INGOT WIRE 67-02 M07-59010
INFLUENCE OF BOOST GLIDE REENTRY VEHICLE ENVIRONMENT ON COATED AND BASE REFRACTORY METALS 67-04 M18-67214
MACHINING THE SPACE-AGE METALS 67-05 M01-68511
THE SIGNIFICANCE OF THE SPACE-AGE METALS 67-05 M08-68506
SPACECRAFT PLUMBING SYSTEMS 67-05 M11-68674
THE WORK MATERIALS 67-05 M17-68507
MATERIALS IN AN ATLAS-AGENA SHROUD 67-05 M20-68685
STRUCTURAL APPLICATIONS FOR ADVANCED COMPOSITE MATERIALS 67-06 M09-70127
SPACECRAFT, WELDING
THE APPLICATION OF WELDING TECHNIQUES IN THE AIR AND IN SPACE 67-12 M11-82464
SPALLATION
SEE SPALLING
SPALLING
INVESTIGATION OF INSULATING BRICK IN STEEL PLANT SERVICE 67-01 M04-58453
THE SPALLING OF CHROMIUM OXIDE ON AN FE-CR ALLOY 67-05 M18-68641
SPARK CUTTING
SEE CUTTING
SPARK MACHINING
SPARK DEPOSITION
INFLUENCE OF THE ELECTROSPARK ALLOYING ON HARDNESS AND WEAR RESISTANCE OF METALLIC SURFACES 67-08 M12-75428
SPARK DISCHARGES
SEE ELECTRIC SPARKS
SPARK EROSION CUTTING
SEE CUTTING
SPARK MACHINING
SPARK EROSION MACHINING
SEE SPARK MACHINING
SPARK FORMING
ELECTRICAL METALWORKING. PT. 3 67-04 M07-68057
THE DEFORMATION OF SHEET METAL THROUGH UNDERWATER SPARK DISCHARGES 67-04 M08-67060
PRINCIPLES AND PRACTICES OF EXPLOSIVE FORMING 67-05 M08-69735
A SURVEY OF H. E. R. FORMING 67-05 M08-69736
ELECTROHYDRAULIC FORMING 67-05 M08-69738
THE ELECTROHYDRAULIC EFFECT AND ITS APPLICATION IN DEFORMATION TECHNOLOGY 67-06 M07-70223
NEW METHODS OF FORMING STEEL 67-06 M07-72009
SPARK GAP FORMING
SEE SPARK FORMING
SPARK HARDENING
INFLUENCE OF THE ELECTROSPARK ALLOYING ON HARDNESS AND WEAR RESISTANCE OF METALLIC SURFACES 67-08 M12-75428
SPARK MACHINING
ELECTRODISCHARGE MACHINING 67-01 M08-58006
SPARK MACHINING 67-01 M08-58380
THE PRODUCTION APPROACH TO EDM 67-01 M08-58525
DUPLICATING THE GRAPHITE ELECTRODE 67-01 M08-58679
STRUCTURAL CHANGES IN METALS AFTER ELECTRIC SPARK ALLOYING 67-01 M11-57687
INVESTIGATION OF THE EFFECT OF ELECTRIC DISCHARGE MACHINING ON THE PROPERTIES AND STRUCTURE OF METALS 67-01 M17-58041
ELECTROEROSION OF SAP ALLOYS 67-02 M08-59735
SPARK EROSION OF PERFORATING PRESS TOOLS 67-02 M08-59999
CLEAVAGE CRACKS INDUCED BY SPARK MACHINING 67-02 M08-61779
WHERE TO USE EDM AND ECM TO BOOST YOUR SHOP PROFITS 67-03 M08-65398
EDM FLEXES ITS MUSCLES 67-03 M08-65666
ELECTROCHEMICAL AND ELECTRODISCHARGE METAL WORKING 67-03 M08-65733
EDM ELECTRODE MATERIALS AND ELECTRODE MATERIAL EVALUATION 67-04 M08-66354
AN INVESTIGATION OF THE VARIABLES INFLUENCING SEMI-FINISH MACHINING BY EDM 67-04 M08-66355
SPARK EROSION EFFECTS IN SPATIAL FORMING 67-04 M08-66885
SPARK EROSION FABRICATION OF SINGLE CRYSTAL TUNGSTEN RIBBON FILAMENTS 67-04 M08-67402
NEWER TECHNIQUES IN THE MACHINING OF METAL COMPONENTS 67-04 M08-67907
TOUGH AEROSPACE JOB REQUIRES UNUSUAL EDM APPROACH 67-05 M08-68446
EFFECT OF EDM ON THE SURFACE PROPERTIES OF TOOL AND DIE STEELS 67-05 M08-69450
DIELECTRICS, ELECTRODES--THEIR EFFECT ON EDM MACHINING 67-06 M08-71448
EDM ELECTRODES 67-06 M08-71449
PRODUCTION EDM COMES OF AGE 67-06 M08-71450
LARGE AUTOMOTIVE STAMPING DIES 67-06 M08-71451
MATCHING THE EDM ELECTRODE MATERIAL TO THE EDM APPLICATION 67-06 M08-71481
EDM THRU-HOLE APPLICATIONS 67-06 M08-71485
EDM ON AN OLD PLANER 67-06 M08-71491
SPARK-ERODING ACCURATE DIES 67-06 M08-71801
DEVELOPMENTS IN SPARK MACHINING 67-06 M08-72134
NEW HIGH-EFFICIENCY ELECTRODES--TOOLS FOR SPARK MACHINING MADE OF CERMET CHIPS 67-06 M09-72325
A TOOL FOR SPARK-EROSION AND ULTRASONIC SHAPING 67-07 M08-72421
THE PERFORMANCE OF STATIC PULSE GENERATORS IN THE SPARK-EROSION WORKING OF STEEL 67-07 M08-72431
SPARK EROSION IN TOOL MANUFACTURE 67-08 M08-74567
ENERGY DISTRIBUTION AT THE GAP IN ELECTRIC DISCHARGE MACHINING 67-08 M08-75577
SPARK EROSION AS A FUNCTION OF SEVERAL VARIABLE FACTORS 67-08 M08-75593
EDM TECHNIQUES FOR MACHINABLE CARBIDES 67-08 M08-75942
PRODUCTION AND PROPERTIES OF POWDERED COPPER HARDENED BY DISPERSED PARTICLES OF REFRACTORY COMPOUNDS 67-08 M09-75471
IMPROVING THE EDGE LIFE OF CUTTING TOOLS BY SPARK MACHINING 67-09 M08-77155
NOW--GRAPHITE-WHEEL ELECTROLYTIC GRINDING 67-09 M08-77492
INFLUENCE OF SPARK MACHINING ON SURFACE LAYER STRUCTURE 67-09 M14-77413
SHAW CAST DIES AND ELECTRIC DISCHARGE MACHINING 67-10 M06-79522
THE PRODUCTION OF CUTTING TOOLS FOR PERFORATED SHEETS BY SPARK EROSION 67-10 M08-78592

SPARK MACHINING

THE AGIETRON SPARK EROSION MACHINE FOR TURBINE WHEELS 67-10 M08-78791
WEAR AND WEAR DISTRIBUTION IN SPARK EROSION 67-10 M08-79495
THE APPLICATION OF ELECTROEROSION METHODS IN THE PRODUCTION OF STAMPING DIES 67-10 M08-79502
SURFACE INTEGRITY IN MACHINING AND GRINDING 67-10 M08-79515
EDM FINISHES AND POLISHING FOR MOLDING APPLICATIONS 67-10 M08-79517
THE PRECISION WORKING OF CARBIDE CUTTING TOOLS BY ELECTROEROSION 67-10 M08-79955
EDM PLUS NC--FORDS WINNING COMBINATION FOR DIE MACHINING 67-11 M08-80677
THE POLARITY EFFECT IN SPARK EROSION 67-11 M08-80798
ELECTRIC SPARK CUTTING OF SEMICONDUCTOR MATERIALS 67-11 M12-81325
SURFACE FORMING BY REVOLVING AND SPARK DISCHARGE MACHINING METHODS 67-12 M08-81996
PRODUCTION IS BASED ON EDM AT THIS PLANT 67-12 M08-82383
DIEMAKING ACQUIRES A NEW LOOK WITH EDM 67-12 M08-82803
EDM AND ITS USE IN MACHINING A DEEP, NARROW SLOT 67-12 M08-82908
WAYS TO INCREASE YOUR EDM PRODUCTIVITY 67-12 M08-82909
WORKSHOP PRACTICE IN USING OF TUNGSTEN CARBIDE, TCD, WITH EDM PROCESS 67-12 M08-82945

SPARK MACHINING, AUTOMATION
PROGRAMMED ELECTROSPARK MACHINING 67-10 M08-79889

SPARKS
SEE ELECTRIC SPARKS

SPECIFIC DENSITY
SEE DENSITY

SPECIFIC GRAVITY
SEE DENSITY

SPECIFIC HEAT
A STUDY ON AGING PROCESS OF A LEAD-0.4 WT PER CENT MAGNESIUM ALLOY BY MEANS OF SPECIFIC HEAT MEASUREMENTS 67-01 M14-58326
ANOMALOUS SPECIFIC HEAT OF NB3SN IN THE LIQUID HELIUM REGION 67-01 M15-58644
LOW-TEMPERATURE ELASTIC PROPERTIES OF ZRC AND TIC 67-01 M17-57116
ELASTIC CONSTANTS OF CADMIUM FROM 300 TO 575 K 67-01 M17-57117
NATURE OF THE ANOMALOUS VALUE OF HEAT CAPACITY OF ORDERED ALLOYS IN THE REGION OF TEMPERATURES ABOVE THE ORDER-DISORDER PHASE TRANSITION 67-02 M15-58860
THE THERMOCHEMISTRY OF MN3SI 67-02 M15-59892
THERMAL AND ELECTRICAL PROPERTIES 67-02 M15-60704
SUPERCONDUCTIVITY OF THORIUM AND URANIUM 67-02 M15-61571
ELECTRONIC SPECIFIC HEAT OF DILUTE ALLOYS.. FE --TI--, FE --V--, FE --CR--, FE --MN--, FE --CO--, FE --NI--, FE --AL--, FE --SI--, FE 67-03 M15-65031
LOW-TEMPERATURE SPECIFIC HEAT AND DENSITY OF STATES OF BORONATED GRAPHITE 67-03 M15-65034
THE SPECIFIC HEAT OF ZRZN2 67-03 M15-65134
LOW TEMPERATURE MAGNETIC SPECIFIC HEAT OF NICKEL 67-03 M15-65136
THE LOW TEMPERATURE SPECIFIC HEAT OF SOME DILUTE PLATINUM-IRIDIUM AND PLATINUM-GOLD ALLOYS 67-03 M15-65365
HEAT CAPACITY OF COBALT IN THE VICINITY OF THE CURIE POINT 67-03 M15-65633
THE WIEDEMANN-FRANZ RATIO OF METALLIC URANIUM AT ELEVATED TEMPERATURES 67-03 M15-65869
HIGH-TEMPERATURE SPECIFIC HEAT OF GERMANIUM 67-03 M15-65885
ANHARMONIC CONTRIBUTIONS TO THE HEAT CAPACITIES OF SILICON AND GERMANIUM 67-03 M16-65035
CALCULATION OF THE DEBYE-WALLER FACTOR FOR NICKEL 67-03 M16-65395
INFLUENCE OF PRESSURE ON THE HEAT CAPACITY OF METALS 67-04 M15-68010
METALS AND NONMETALS--MEMBERS OF THE SAME FAMILY 67-04 M16-67548
SPECIFIC HEAT OF NB-ZR ALLOYS AT LOW TEMPERATURE 67-05 M15-69203
DEBYE-WALLER FACTORS OF COPPER AND GOLD 67-05 M15-69673
MAGNON CONTRIBUTION TO THE LOW-TEMPERATURE SPECIFIC HEAT OF UO2 67-05 M15-69768
RIGID-BAND BEHAVIOR IN ALUMINUM-BASED ALLOYS--ELECTRONIC SPECIFIC HEAT 67-05 M15-69816
NUCLEAR MAGNETIC RESONANCE AND SPECIFIC HEAT MEASUREMENTS OF TRANSITION METALS AND ALLOYS.. TI-V-FE AND ZR-NB-MO SYSTEMS 67-05 M16-69758
SPECIFIC HEAT OF SODIUM FROM 300 TO 475 K 67-06 M15-69912
ENTHALPY, HEAT CAPACITY, AND HEAT OF FUSION OF ALUMINUM FROM 366 TO 1647 K 67-06 M15-70701
ENTHALPY, HEAT CAPACITY, AND HEAT OF FUSION OF MAGNESIUM FROM 404 TO 1300 K 67-06 M15-70703
THERMODYNAMIC PROPERTIES OF URANIUM CARBIDES 67-06 M15-70888
HIGH TEMPERATURE HEAT CONTENTS OF THREE ALPHA BRASS ALLOYS 67-06 M15-70952
THE EFFECT OF SCREENING CHARGE ON THE ELECTRONIC SPECIFIC HEAT OF DILUTE ALLOYS OF THE NOBLE METALS 67-06 M15-71171
SPECIFIC HEAT OF LEAD IN THE RANGE FROM 2 TO 8 K 67-06 M15-71792
NUCLEAR SPECIFIC HEATS OF MNNI AND MNNI3 67-06 M15-71998
CALCULATION OF HEAT CAPACITY OF REFRACTORY COMPOUNDS 67-06 M15-72330
EFFECTIVE MAGNETIC FIELD ON THE NB AND TA NUCLEI DISSOLVED IN IRON 67-06 M16-71916
CALIBRATION AND USE OF GERMANIUM RESISTANCE THERMOMETERS FOR PRECISE HEAT CAPACITY MEASUREMENTS FROM 1 TO 25 K. HIGH PURITY COPPER FOR INTERLABORATORY HEAT CAPACITY COMPARISONS 67-06 M20-70832
COMPARISON OF THE ENERGY OF STACKING FAULTS WITH THE ELECTRON STRUCTURE OF THE METAL 67-07 M13-73483
THE ATOMIC HEATS OF MG SPECIMENS CONTAINING H AND SI IN THE TEMPERATURE RANGE OF 20 TO 300 K 67-07 M15-72727
HEAT CAPACITY AND STRUCTURE OF VITREOUS SILICA AND DIAMOND-LIKE LATTICES. PT. 1 67-07 M15-72936
HEAT CAPACITY AND STRUCTURE OF VITREOUS SILICA AND DIAMOND-LIKE LATTICES. PT. 2 67-07 M15-72937
X-RAY STUDY OF THE CHARACTERISTIC DEBYE TEMPERATURE OF POLYCRYSTALLINE SILVER, UTILIZING A CORRECTION FOR PRIMARY EXTINCTION 67-07 M15-72945
LATTICE SPECIFIC HEATS OF THALLIUM AND YTTRIUM 67-07 M15-72949
CORRELATION OF ELECTRONIC SPECIFIC HEATS AND CURIE TEMPERATURES IN DILUTE ALLOYS OF IRON 67-07 M15-73541
THERMODYNAMIC PROPERTIES 67-07 M15-73663
A STUDY OF UC1-XOX. PT. 3 67-07 M15-74013
INFLUENCE OF CONDUCTION ELECTRONS ON THE LATTICE SPECIFIC HEAT AND ELASTIC MODULI OF ALPHA-PHASE ALLOYS OF THE NOBLE METALS 67-07 M16-73940
ELECTRONIC SPECIFIC HEATS OF SILVER-GOLD ALLOYS 67-07 M16-74061
THE VARIATION WITH TEMPERATURE OF ATOMIC VIBRATION AMPLITUDES IN IRON 67-08 M13-74391
LATTICE DYNAMICS OF NICKEL 67-08 M13-74793
ENERGY OF THE ORDER-DISORDER TRANSFORMATION OF MGIN AS A SUPERLATTICE WITH THE L10 STRUCTURE 67-08 M14-74423
ECHANCEMENT OF THE LATTICE HEAT CAPACITY DUE TO LOW-FREQUENCY RESONANCE MODES IN DILUTE AL-MG ALLOY 67-08 M15-74473
NUCLEAR SPECIFIC HEAT OF GOLD-SILVER ALLOYS 67-08 M15-74564
SPECIFIC HEAT OF LUTETIUM BETWEEN 3 AND 25 K 67-08 M15-74659
LOW-TEMPERATURE SPECIFIC HEAT OF ANTIMONY 67-08 M15-74665
ON THE SPECIFIC HEAT OF FE-SI ALLOYS 67-08 M15-75647
SUPERCONDUCTIVE ANOMALY IN SPECIFIC HEATS OF LAYER STRUCTURE COMPOUNDS 67-08 M16-74429
SOME PHYSICAL PROPERTIES OF PLUTONIUM AT LOW TEMPERATURES 67-09 M15-76312
THE BAND STRUCTURE, SPECIFIC HEAT, MAGNETIC SUSCEPTIBILITY, AND ANOMALOUS THERMAL EXPANSION OF DELTA PLUTONIUM 67-09 M15-76316
ENTHALPY AND THERMAL CAPACITY OF NIOBIUM AND ZIRCONIUM CARBIDES AT 500 TO 2400 K 67-09 M15-76765
ENTHALPY AND HEAT CAPACITY OF ZIRCONIUM DIOXIDE IN THE TEMPERATURE INTERVAL 1100-2500 K 67-09 M15-76773
LOW-TEMPERATURE SPECIFIC HEAT OF ARSENIC AND ANTIMONY 67-09 M15-77165

LAW OF CORRESPONDING STATES FOR FCC AND D-HCP LA
67-09 M16-77686
THE SPECIFIC HEATS OF HIGH-MELTING METALS AT HIGH TEMPERATURES AND THE FORMATION OF VACANCIES IN THEM 67-10 M15-78347
MOSSBAUER FRACTIONS AND SPECIFIC HEAT OF TELLURIUM 67-10 M15-78718
FURTHER MEASUREMENTS RELATING TO THE MECHANICAL PROPERTIES OF MASSIVE CEMENTITE
67-10 M15-79069
THERMODYNAMIC PROPERTIES OF THE TWO-PHASE REGION OF CONSTANT-COMPOSITION BINARY SOLUTIONS
67-10 M15-79250
EXPERIMENTAL DATA ON THE VELOCITY OF SOUND IN ALKALI METALS AT TEMPERATURES UP TO 800 C
67-10 M15-79253
SPECIFIC HEAT OF LIQUID TIN AT 1000 TO 1700 C
67-10 M15-79832
THERMOPHYSICAL PROPERTIES OF TANTALUM, TUNGSTEN, RHENIUM, AND THEIR ALLOYS IN THE TEMPERATURE RANGE 1500 TO 3000 K 67-10 M15-79942
PHONONS 67-10 M16-78307
ELECTRONIC STRUCTURE AND PROPERTIES OF PALLADIUM AND ITS ALLOYS 67-10 M16-78723
THERMAL PROPERTIES OF ANOMALOUS SUPERCONDUCTORS
67-10 M16-79467
CALORIMETRIC STUDIES OF DELTA, DELTA PRIME AND EPSILON PLUTONIUM 67-10 M19-79592
APPARATUS FOR CHECKING THE QUALITY OF EXOTHERMIC ANTIPIPING COMPOUNDS FOR THE HOT TOPS OF KILLED-STEEL INGOTS 67-10 M19-79677
THERMAL PROPERTIES OF ARMCO IRON
67-11 M15-80122
DISCREPANCIES IN THE THERMODYNAMICS OF THE TITANIUM-OXYGEN SYSTEM 67-11 M15-80192
THERMODYNAMIC CHARACTERISTICS OF MANGANESE SILICIDES 67-11 M15-80447
SPECIFIC HEAT, ENTHALPY, AND ENTROPY OF CR5SI3 AND CRSI2 67-11 M15-80494
A-C MEASUREMENT OF THE HEAT CAPACITY OF NICKEL NEAR ITS CRITICAL POINT 67-11 M15-80760
A. C. TEMPERATURE MEASUREMENT OF CHANGES IN HEAT CAPACITY OF BERYLLIUM IN A MAGNETIC FIELD
67-11 M15-80774
THE ATOMIC HEAT OF ZR BETWEEN 300 AND 1700 C
67-11 M15-80866
SPECIFIC HEAT OF NDS, LASE, AND LATE
67-11 M15-81046
THE ELECTRONIC SPECIFIC HEATS OF ALLOY PHASES BASED ON THE NOBLE METALS 67-11 M15-81115
HEAT CAPACITY AND THERMODYNAMIC FUNCTIONS OF IRON
67-11 M15-81151
SPECIFIC HEAT OF LANTHANUM, PRASEODYMIUM, AND SAMARIUM METALS BETWEEN 3 AND 25 K
67-11 M15-81386
HEAT CAPACITY OF SCANDIUM FROM 1 TO 23 K
67-11 M15-81477
DETERMINATION OF THE PHONON SPECTRUM OF A CRYSTAL FROM THE HEAT CAPACITY 67-11 M16-81042
THE SPECIFIC HEAT AND SUPERCONDUCTIVITY OF LA-Y ALLOYS 67-11 M16-81470
ANTIFERROMAGNETISM OF GAMMA-FEMN ALLOYS. PT. 3. SPECIFIC HEAT AND THERMOELECTRIC POWER STUDIES
67-12 M15-81763
CALORIMETRIC EVIDENCE FOR THE ABSENCE OF A MAGNETIC PHASE TRANSITION IN GALLIUM NEAR 1.7 K
67-12 M15-82199
THERMOMAGNETIC STUDIES OF THE MAGNETOCALORIC EFFECT OF COBALT NEAR THE CURIE POINT
67-12 M15-82222
THERMAL PROPERTIES OF GOLD-SILICON BINARY ALLOY NEAR THE EUTECTIC COMPOSITION
67-12 M15-82372
TEMPERATURE DEPENDENCE OF HEAT CAPACITY OF SOME TITANIUM ALLOYS 67-12 M15-83535
THERMAL EXPANSION AT LOW TEMPERATURES OF ANISOTROPIC METALS. INDIUM 67-12 M16-83403

SPECIFIC HEAT, ALLOYING EFFECTS
TEMPERATURE DEPENDENCE OF THE HEAT CAPACITY OF IRON-ALUMINUM ALLOYS IN THE COMPOSITION RANGE TO 27 AT. PER CENT AL 67-04 M15-67376
LOW TEMPERATURE SPECIFIC HEAT OF BCC ALLOYS OF 3D TRANSITION ELEMENTS WITH 20 PER CENT AL
67-07 M15-73630

SPECIFIC HEAT, COMPOSITION EFFECTS
CONCENTRATION DEPENDENCES OF ELASTIC CONSTANTS AND DEBYE TEMPERATURES FOR BINARY ALLOYS
67-07 M15-72404

SPECIFIC HEAT, PRESSURE EFFECTS
OSCILLATIONS OF ELECTRONIC THERMODYNAMIC CHARACTERISTICS OF A METAL FILM AT HIGH PRESSURES
67-06 M16-71912
EFFECT OF PRESSURE ON THE HEAT CAPACITY OF METALS
67-10 M15-79901

SPECIFIC HEAT, RADIATION EFFECTS
MEASUREMENT OF THE RATE OF HEAT RELEASE IN ALPHA-IRRADIATED AL BY MEANS OF A MICROCALORIMETER
67-08 M15-75648

SPECIFIC HEAT, TEMPERATURE EFFECTS
SPECIFIC HEAT OF GADOLINIUM, TERBIUM, DYSPROSIUM, HOLMIUM, AND THULIUM METALS BETWEEN 3 AND 25 K
67-01 M15-58750
SPECIFIC HEATS OF AU AND AUSN AT LOW TEMPERATURES
67-01 M15-58754
VIBRATION SPECTRA AND DEBYE TEMPERATURES OF SILVER AND GOLD 67-02 M15-59474
HEAT CAPACITY OF ALPHA URANIUM FROM 1.7 TO 25 K
67-02 M15-60770
THE SPECIFIC HEAT FROM 50 TO 700 C. OF A NOMINAL NI --16 WT PER CENT MO, 7 WT PER CENT CR, 5 WT PER CENT FE-- ALLOY 67-03 M15-65858
THERMAL STUDY OF GROUP 2-4 SEMICONDUCTORS. PT. 2. HEAT CAPACITY OF MG2SN IN THE RANGE 5 TO 300 K
67-05 M15-68281
SPECIFIC HEAT OF IRON-VANADIUM ALLOYS BETWEEN 125 AND 625 K 67-05 M15-68284
THERMODYNAMIC PROPERTIES OF ZIRCONIUM AND HAFNIUM CARBIDES OVER THE RANGE 298 TO 2500 K
67-05 M15-68706
THE HEAT CAPACITY OF SILVER BELOW 26 K
67-05 M15-69579
SOME PHYSICAL PROPERTIES OF PLUTONIUM METAL AT LOW TEMPERATURES 67-09 M15-76313
THERMAL DIFFUSIVITY AND ELECTRICAL CONDUCTIVITY OF ALLOYS OF THE COPPER-ANTIMONY SYSTEM IN THE LIQUID STATE 67-11 M15-80654
THERMODYNAMIC PROPERTIES OF ZIRCONIUM AND HAFNIUM CARBIDES IN THE RANGE 298-2500 K
67-12 M15-82682

SPECIFIC RESISTANCE
SEE RESISTIVITY
SPECIFIC SURFACE
CALCULATED AND ACTUAL SURFACE OF POWDERS
67-06 M09-70212
DETERMINATION OF THE SPECIFIC SURFACE --PARTICLE SIZE-- OF POWDERS FROM THE RATIO OF FLOW RATES MEASURED UNDER DIFFERENT CONDITIONS OF GAS FLOW IN A POROUS MEDIUM 67-06 M09-70964
DETERMINATION OF POWDER SPECIFIC SURFACE BY FILTRATION OF RAREFIED GAS 67-08 M09-75420
SPECIFIC VOLUME
SEE DENSITY
SPECIFIC WEIGHT
SEE DENSITY
SPECIFICATIONS
DESIGNING WITH ALUMINIUM 67-01 M06-58665
A RATIONAL APPROACH TO STANDARDS FOR WELDED CONSTRUCTION 67-01 M19-58591
THE MECHANICAL AND PHYSICAL PROPERTIES OF THE BRITISH STANDARD EN STEELS 67-02 M01-60552
CLASSIFICATION OF HIGH-QUALITY SPOT WELDED ASSEMBLIES 67-02 M11-59170
SPECIFICATIONS FOR CARBON AND LOW-ALLOY STRUCTURAL STEELS WITH GUARANTEED WELDABILITY
67-02 M17-58989
BUILDING CONSTRUCTION AND HIGH-STRENGTH STEEL
67-02 M17-59962
ZINC ALLOYS FOR DIECASTING 67-03 M06-65683
LIGHT METALS AND ALLOYS. ASTM STANDARDS. PT. 6
67-03 M19-65494
GUIDE TO SPECIFICATIONS FOR DUCTILE-IRON CASTINGS
67-03 M19-65497
JAPANESE SPECIFICATION FOR HIGH STRENGTH WELDABLE STEELS 67-03 M19-65677
VERSASTEEL --HIGH-CARBON ALLOY TOOL STEEL--
67-04 M01-66320
BA.LM8 --ALUMINUM CASTING ALLOY--
67-04 M01-66321
TOPHET-D --ELECTRICAL RESISTANCE ALLOY--
67-04 M01-66322
AISI NO. 634 --PRECIPITATION HARDENING STAINLESS STEEL-- 67-04 M01-66323
HIPERCO 50 --SOFT MAGNETIC ALLOY--
67-04 M01-66324
INCRAMET 800 --HEAT RESISTANT COPPER ALLOY--
67-04 M01-66330
SYLVANIA MT-104 --HIGH TEMPERATURE MOLYBDENUM ALLOY-- 67-04 M01-67300

SPECIFICATIONS

ALUMINUM ALLOYS AND THEIR TREATMENT 67-04 M01-67708
THE ELECTRIC FURNACE IN THE STEEL INDUSTRY 67-04 M04-67243
CHOICE OF STEELS FOR MOULDS AND DIES 67-04 M17-67068
MACHINE-MADE MATERIALS 67-05 M01-68499
MECHANICAL PROPERTIES OF METALS FOR CRYOGENIC SERVICE STRENGTH TO DENSITY RATIO OF METALS FOR CRYOGENIC SERVICE 67-05 M17-68680
PRINCIPLES OF HEAT TREATMENT OF STEELS. PT. 6. CARBON CONSTRUCTION STEELS 67-05 M19-69347
DESIGNERS GUIDE TO THE SELECTION OF FASTENER MATERIALS--DATA SHEET 67-05 M20-69495
TENSILE STRENGTHS OF THE DIFFERENT STANDARD GRADES OF GRAY IRON 67-06 M19-71731
THE DESIGN OF CHEMICAL PLANT IN CHROMIUM AND STAINLESS STEEL. PT. 1 67-06 M20-70557
HEAT TREATMENT OF RAILWAY ROLLING STOCK COMPONENTS 67-07 M10-72905
THERMOPHYSICAL PROPERTIES OF HIGH TEMPERATURE SOLID MATERIALS. V. 3. FERROUS ALLOYS 67-07 M15-74022
STAINLESS STEEL TUBING 67-07 M19-72933
BIG CHANGES COME TO FASTENERS 67-08 M07-74358
DESIGNATIONS OF ALLOYS FOR THE AEROSPACE INDUSTRY 67-08 M19-75941
COMMERCIAL SPECIFICATIONS FOR BOLTS, NUTS AND SIMILAR PARTS 67-09 M19-77829
HOMOGENEITY OF COPPER ALLOY INGOTS 67-10 M19-78725
MATERIALS ENGINEERING FOR ELECTRONIC HARDWARE 67-10 M20-78762

SPECTRA
SEE ALSO ABSORPTION SPECTRA
BAND SPECTRA
FINE STRUCTURE
HYPERFINE STRUCTURE
LINE SPECTRA
MASS SPECTRA
RAMAN SPECTRA
SPECTRAL LINES
THE SPECTRA OF NI ISOTOPES 67-09 M15-77213
SURFACE ASYMMETRY MECHANISM FOR FRACTIONAL ORDER PEAKS OBSERVED IN LEED BEAMS FROM METALS 67-10 M16-79545
THE LBETA 2 LINE OF THE TANTALUM X-RAY FLUORESCENCE SPECTRUM IN THE METAL PROPER AND IN SOME OF ITS REFRACTORY COMPOUNDS 67-10 M16-79729

SPECTRAL EMITTANCE
EMISSION AND ABSORPTION K-SPECTRA OF METALLIC TITANIUM 67-02 M19-59945
FAR INFRARED LATTICE BANDS IN INDIUM ANTIMONIDE 67-04 M16-66743
X-RAY SPECTRA, ELECTRON STRUCTURE AND PROPERTIES OF TITANIUM METALLIC COMPOUNDS 67-04 M16-67372
THE CHARACTERISTIC X-RAYS FROM BORON AND BERYLLIUM 67-06 M16-71434
ELECTRON STRUCTURE OF ALLOYS OF THE C8-ZR SYSTEM 67-06 M16-71475
K-ABSORPTION AND EMISSION SPECTRA OF METALLIC TITANIUM 67-07 M19-72600
ELECTRON STRUCTURES OF ALLOYS OF THE SYSTEM NB-ZR 67-12 M16-82796

SPECTRAL EMITTANCE, TEMPERATURE EFFECTS
THERMAL AND ELECTRICAL CONDUCTIVITIES AND SPECTRAL AND TOTAL EMISSIVITIES OF NICKEL AT HIGH TEMPERATURES 67-06 M15-70574

SPECTRAL LINES
ELECTRON PROBE MICROANALYSIS OF THE LOW ATOMIC NUMBER ELEMENTS WITH NPL X-RAY GRATINGS 67-04 M10-67262
X-RAY SPECTRANALYSIS OF FE-NI ALLOYS 67-07 M15-72580
ANALYSIS OF ALLOYING ELEMENTS IN VARIOUS ALLOYS AND DETERMINATION OF SMALL AMOUNTS OF ELEMENTS BY X-RAY FLUORESCENT SPECTROSCOPY 67-08 M19-74403

SPECTRAL LINES, POROSITY
POROSITY EFFECT OF A CERMET MATERIAL ON RELATIVE INTENSITY OF CERTAIN ELEMENT SPECTRAL LINES 67-08 M09-74313

SPECTROCHEMICAL ANALYSIS
MODERN METHODS OF METALLURGICAL CONTROL IN THE IRON FOUNDRY 67-01 M19-58118
RADIOCHEMICAL ANALYSIS OF BASIC ELEMENTS BY ELECTRON MICROPROBE 67-02 M19-59090
SPECTROPHOTOMETRIC DETERMINATION OF GOLD IN TITANIUM ALLOYS 67-02 M19-60273
APPLICATION OF OPTICAL EMISSION SPECTROMETRY TO THE ANALYSIS OF NONMETALLIC SPECIMENS IN THE IRON AND STEEL INDUSTRY 67-02 M19-61961
COMPLETE SPECTROCHEMICAL CONTROL IN A DIVERSIFIED FOUNDRY 67-03 M19-65009
APPARATUS FOR THE MEASUREMENT AND SPECTROCHEMICAL RAPID ANALYSIS OF BOILER TUBING 67-03 M19-65705
SPECTRAL ANALYSIS OF OXIDE INCLUSIONS, PRECIPITATED FROM STEEL 67-04 M19-67084
EFFECT OF SAMPLE GRAIN SIZE ON RESULTS OF SPECTRAL ANALYSIS STEELS 67-04 M19-67085
ANALYSIS OF HIGH-ALLOY STEELS ON A VACUUM SPECTROMETER 67-04 M19-67086
DIRECT READING DETERMINATION OF METALLOIDS IN STEELS BY AN EMISSION SPECTROMETER IN ULTRAVIOLET REGION 67-04 M19-67396
EMMA-2, AN INSTRUMENT FOR ELECTRON-MICROSCOPIC AND X-RAY SPECTRAL MICROANALYSIS OF THIN FILMS AND EXTRACTION REPLICAS 67-05 M13-69637
THE SPECTROCHEMICAL DETERMINATION OF ALUMINUM OXIDE IN METALLIC ALUMINUM 67-05 M19-69622
ON THE DETERMINATION OF BI IN HIGH-ALLOY STEEL BY THE SPECTROPHOTOMETRIC METHOD 67-05 M19-69868
OPERATING EXPERIENCE WITH EMISSION SPECTROANALYTICAL INVESTIGATIONS OF UNALLOYED AND ALLOYED STEELS WITH A VACUUM SPECTROMETER 67-06 M19-70047
MASS SPECTROMETER ANALYSIS OF A SOLID SURFACE 67-06 M19-70239
DETERMINING SMALL VANADIUM CONTENTS IN STEEL AND SEMIFINISHED PRODUCTS USING A PHOTOELECTRIC STYLOMETER 67-06 M19-70334
THE SPECTROCHEMICAL DETERMINATION OF GOLD IN COPPER CONCENTRATES 67-06 M19-70343
DETERMINING IMPURITIES IN HIGH-PURITY NIOBIUM 67-06 M19-70351
SUGGESTED METHOD FOR SPECTRO-CHEMICAL ANALYSIS OF PALLADIUM BY THE PELLET-SPARK AND D-C ARC TECHNIQUES 67-06 M19-70861
SUGGESTED METHOD FOR SPECTROCHEMICAL ANALYSIS OF RHODIUM BY THE PELLET TECHNIQUE 67-06 M19-70862
SEPARATION OF TRACES OF ZINC WITH TRI-ISOOCTYLAMINE AND ITS SPECTROPHOTOMETRIC DETERMINATION IN ELECTROLYTIC NICKEL 67-06 M19-70971
SPECTROCHEMICAL ANALYSIS AT THE BALTIMORE WORKS OF ARMCO STEEL CORP 67-06 M19-71389
ANALYSIS OF HIGH-ALLOY STEELS 67-06 M19-71706
QUANTOVAC ANALYSIS IN THE FOUNDRY 67-06 M19-72081
CRUCIBLES SYSTEM OF RAPID CHEMICAL ANALYSIS FOR METALLURGICAL RESEARCH 67-07 M19-73091
SPECTROCHEMICAL ANALYSIS OF STAINLESS STEEL BATH SAMPLES USING THE QUATOMETER 67-07 M19-73257
TOTAL-BURN SPECTROGRAPHIC DETERMINATION OF SILICON IN PLUTONIUM 67-07 M19-73876
THE DETERMINATION OF TRACE ELEMENTS IN CAST IRON USING A DIRECT READING SPECTROMETER 67-08 M19-75585
MICROSCOPIC AMOUNTS OF COBALT AND MANGANESE IN ELECTROLYTICALLY PRODUCED IRON DETERMINED BY NEUTRON-ACTIVATION ANALYSIS 67-09 M19-76707
SPECTROCHEMICAL ANALYSIS OF ZIRCONIUM AND ITS ALLOYS. PT. 4. SPECTROGRAPHIC DETERMINATION OF ALLOYING ELEMENTS IN ZIRCALOY-2 BY THE POINT-TO-PLANE LOW VOLTAGE SPARK TECHNIQUE 67-09 M19-77989
SPECTRAL ANALYSIS OF OXIDE INCLUSIONS SEPARATED FROM STEEL 67-09 M19-78065
DETERMINATION OF IMPURITIES IN HIGH-PURITY NIOBIUM 67-10 M19-79632
RAPID ANALYSIS OF OPEN-HEARTH FURNACE SLAGS WITH A VACUUM SPECTROMETER. PT. 5. SPECTROMETRIC ANALYSIS OF NONMETALLIC MATERIALS IN THE STEEL PLANT LABORATORY 67-10 M19-79721
OPTICAL AND X-RAY SPECTROSCOPY 67-11 M19-80134
CONTRIBUTION TO X-RAY SPECTROCHEMICAL TRACE ANALYSIS. THE DIRECT DETERMINATION OF SMALL CONTENTS OF AL, SB, NB, P, SI, V, SN AND ZR IN STEEL 67-11 M19-81376
LOCAL SPECTRAL ANALYSIS OF IRON USING LASERS 67-12 M19-82086
CHEMICAL HETEROGENEITY IN RESISTANCE WELDED STEEL JOINTS OF LARGE CROSS SECTION 67-12 M19-82627
X-RAY SPECTROCHEMICAL ANALYSIS OF STAINLESS STEELS 67-12 M19-83294

SPECTROGRAPHS
SEE SPECTROMETERS
SPECTROGRAPHY
SEE SPECTROSCOPY
SPECTROMETERS
SEE ALSO MASS SPECTROMETERS
THE DETERMINATION OF METALLIC TRACE ELEMENTS BY AUTOMATIC ATOMIC ABSORPTION SPECTROMETRY 67-03 M19-65703
APPARATUS FOR THE MEASUREMENT AND SPECTROCHEMICAL RAPID ANALYSIS OF BOILER TUBING 67-03 M19-65705
X-RAY FLUORESCENCE TECHNIQUE FOR THE STUDY OF SEGREGATION IN STEEL 67-04 M13-66985
DIRECT READING DETERMINATION OF METALLOIDS IN STEELS BY AN EMISSION SPECTROMETER IN ULTRAVIOLET REGION 67-04 M19-67396
X-RAY MICROANALYSIS IN CHEMISTRY 67-04 M19-67765
OPERATING EXPERIENCE WITH EMISSION SPECTROANALYTICAL INVESTIGATIONS OF UNALLOYED AND ALLOYED STEELS WITH A VACUUM SPECTROMETER 67-06 M19-70047
A SIMPLE LIGHT ELEMENT X-RAY SPECTROMETER 67-07 M19-73137
NEUTRON DIFFRACTION 67-08 M13-74692
ELECTRON PROBE MICROANALYSIS 67-08 M13-74695
QUANTITATIVE SPECTROSCOPIC ANALYSIS OF METALS USING THE ZEISS INDUSTRIAL SPECTROSCOPE 67-08 M19-74898
THE DETERMINATION OF TRACE ELEMENTS IN CAST IRON USING A DIRECT READING SPECTROMETER 67-08 M19-75585
LIGHT ELEMENT MICROANALYSIS 67-09 M13-76661
ROLE OF CHEMICAL ANALYSIS IN STEEL PRODUCTION 67-09 M19-76419
A STUDY OF ATOMIC ABSORPTION SPECTROMETRY-- DETERMINATION OF MAGNESIUM AND CALCIUM IN SLAG AND CAST IRON 67-09 M19-77875
SIMULTANEOUS SAMPLING FOR THE SPECTROMETRIC AND GAS-ANALYTICAL ANALYSIS OF STEEL 67-09 M19-78195
RAPID ANALYTICAL TECHNIQUE FOR STEELMAKING USING PIN SAMPLES AND OPTICAL EMISSION VACUUM DIRECT READING SPECTROMETER 67-10 M19-79439
THE DETERMINATION OF PB, ZN, CU, AS AND S IN SULFIDE ORES BY X-RAY SPECTROMETRY 67-11 M19-80346
RADIOMETRIC DETERMINATION OF THORIUM IN MIXED OXALATES OF URANIUM AND THORIUM 67-12 M19-82270
SPECTROMETRY
SEE SPECTROMETERS
SPECTROPHOTOMETERS
SEE ALSO INFRARED SPECTROPHOTOMETERS
ENRICHMENT AND SPECTROPHOTOMETRIC DETERMINATION OF SMALL AMOUNTS OF CHROMIUM AND THE APPLICATION OF THE METHOD IN THE ALUMINIUM INDUSTRY 67-01 M03-57209
DETERMINATION OF METALS IN METALS BY ATOMIC ABSORPTION SPECTROPHOTOMETRY 67-01 M19-57931
DETERMINATION OF THE POROSITY OF GOLD ELECTRODEPOSITS BY QUANTITATIVE ELECTROGRAPHY 67-02 M12-60682
ON THE DETERMINATION OF TIN IN FERROTUNGSTEN BY THE SPECTROPHOTOMETRIC METHOD 67-02 M19-59121
SN, FE, AND NICKEL DETERMINATIONS BY SPECTROPHOTOMETRY IN COPPER ALLOYS 67-02 M19-59166
ANALYSIS OF HIGH-PURITY LEAD 67-02 M19-59168
SPECTROPHOTOMETRIC DETERMINATION OF GOLD IN TITANIUM ALLOYS, USING THE COLOR-REACTION OF M-SN-CL SYSTEM 67-02 M19-59720
SPECTROPHOTOMETRIC DETERMINATION OF GOLD IN TITANIUM ALLOYS 67-02 M19-60273
THE SPECTROPHOTOMETRIC DETERMINATION OF CHROMIUM IN ANODIC POWDERS 67-05 M19-69618
ON THE DETERMINATION OF BI IN HIGH-ALLOY STEEL BY THE SPECTROPHOTOMETRIC METHOD 67-05 M19-69868
METHOD FOR DETERMINATION OF VANADIUM IN ALUMINUM AND ALUMINUM ALLOYS 67-06 M19-71443
CHEMICAL SPECTROPHOTOMETRY IN TRACE CHARACTERIZATION 67-11 M19-80136
SPECTROPHOTOMETRY
SEE SPECTROPHOTOMETERS
SPECTRORADIOMETERS
SEE SPECTROPHOTOMETERS
SPECTROSCOPES
SEE SPECTROMETERS
SPECTROSCOPIC ANALYSIS
SEE ALSO SPECTROCHEMICAL ANALYSIS
THE SPECTROGRAPHIC ANALYSIS OF MOLTEN STEEL.. A REVIEW 67-01 M04-57205
PROBLEMS OF VACUUM-TYPE-PHOTOELECTRIC EMISSION SPECTROSCOPIC ANALYSIS 67-01 M19-57913
NEW WAYS OF PREPARING METALLIC SPECIMENS FOR OPTICAL SPECTRUM ANALYSIS 67-01 M19-57922
THE DETERMINATION OF OXIDE INCLUSIONS IN STEEL 67-02 M04-60206
APPLICATION OF X-RAY DIFFRACTION GRATINGS TO ELECTRON MICROANALYSIS 67-02 M13-58927
ASPECTS AND POSSIBILITIES OF THE SPECTROMETRY OF X-RAY FLUORESCENCE IN ALUMINUM ALLOY ANALYSIS 67-02 M19-59163
SPECTROGRAPHIC PROPORTIONING OF IMPURITIES IN ALUMINUM MATERIALS 67-02 M19-59164
X-RAY FLUORESCENCE ANALYSIS IN A STEEL FOUNDRY 67-03 M19-65010
ANALYSIS OF BERYLLIUM SPECIMENS BY SPARK MASS SPECTROMETRY 67-03 M19-65249
THE SPECTROGRAPHIC ANALYSIS OF METALLURGICAL SLAGS AND ASHES 67-04 M19-66908
SPECTRAL METHOD OF ANALYSIS OF ALUMINA 67-04 M19-67123
NOTE ON THE DETERMINATION OF GOLD IN BARREN CYANIDE SOLUTIONS BY ATOMIC ABSORPTION SPECTROSCOPY 67-06 M19-71889
DIRECT EMISSION X-RAY SPECTROMETRY. QUANTITATIVE ANALYSIS OF METALLURGICAL PRODUCTS 67-06 M19-72012
EMISSION SPECTROGRAPHIC DETERMINATION OF OXYGEN IN STEEL BY A D-C CARBON ARC METHOD 67-08 M19-74401
ANALYSIS OF ALLOYING ELEMENTS IN VARIOUS ALLOYS AND DETERMINATION OF SMALL AMOUNTS OF ELEMENTS BY X-RAY FLUORESCENT SPECTROSCOPY 67-08 M19-74403
DETERMINATION OF MICRO AMOUNT OF IRON IN ALUMINIUM METALS AND ALUMINIUM ALLOYS BY ATOMIC ABSORPTION SPECTROMETRY 67-08 M19-74421
PRESENT STATE OF THE CHEMICAL ANALYSIS OF NUCLEAR FUELS AND REACTOR MATERIALS IN JAPAN 67-08 M19-74681
QUANTITATIVE SPECTROSCOPIC ANALYSIS OF METALS USING THE ZEISS INDUSTRIAL SPECTROSCOPE 67-08 M19-74898
FUTURE DEVELOPMENTS IN THE SPECTROSCOPY OF HIGH-TEMPERATURE MOLECULES 67-09 M16-77502
MASS SPECTROGRAPHY, A RECENT ANALYTICAL METHOD, AND ITS APPLICATION TO THE ANALYSIS OF ALUMINUM 67-11 M19-80148
SPECTROSCOPY
SEE ALSO FLAME SPECTROSCOPY
GAMMA RAY SPECTROSCOPY
INFRARED SPECTROSCOPY
MICROWAVE SPECTROSCOPY
SPECTROCHEMICAL ANALYSIS
SPECTROSCOPIC ANALYSIS
X RAY SPECTROSCOPY
SPECTROGRAPHIC DETERMINATION OF TRACE IMPURITIES IN GOLD 67-02 M19-58921
SAMPLE PREPARATION AND REPRODUCIBILITY IN SPECTROGRAPHIC ANALYSIS OF HIGH-ALLOY STEELS 67-02 M19-59165
EVALUATION OF SOLID METAL SPECIMENS PRODUCED FOR SPECTROGRAPHIC ANALYSIS BY THE INERT-GAS DC-ARC 67-03 M19-65021
GENERAL METHOD FOR ANALYZING REFRACTORY-METAL ALLOYS USING THE VACUUM-CUP ELECTRODE 67-03 M19-65022
THE STATUS OF HIGH PURITY AT A. W. R. E. ALDEMASTON 67-03 M19-65248
TESTS ON ANODIZED AL 67-06 M12-71982
THE PHOTOMETRIC DETERMINATION OF SILICON IN IRON AND ITS STRUCTURAL COMPONENTS 67-07 M19-72708
MATERIAL TESTING IN CASTING TECHNOLOGY 67-08 M19-74754
THE DETERMINATION OF ELECTRON BINDING ENERGIES IN PLUTONIUM WITH PHOTO-ELECTRON SPECTROSCOPY 67-09 M16-76320
X-RAY SPECTRAL INVESTIGATION OF THE ELECTRONIC STRUCTURE OF THE ELEMENTS OF THE SECOND LARGE PERIOD 67-09 M16-76780
EMISSION MICROSPECTROSCOPY USED FOR ANALYZING ALLOYS FOR SEMICONDUCTOR DEVICES 67-09 M19-76578

SPECTROSCOPY
METAL SPECTROSCOPY--AN EFFECTIVE ACCELERATED TESTING METHOD FOR METAL PRODUCING AND METAL FINISHING PLANTS 67-09 M19-78110
STIMULATED EMISSION OF ELECTRON-BEAM-PUMPED ZINC TELLURIDE SINGLE CRYSTALS 67-10 M16-79462
CONTRIBUTION TO THE SPECTROGRAPHIC DETERMINATION OF SMALL CONCENTRATIONS OF ALUMINUM IN STEEL 67-10 M19-79726
SPECTROGRAPHIC CONTENTS OF CR AND NI IN STEELS DETERMINED BY LASER EXCITATION 67-11 M19-80250
A SPECTROGRAPHIC METHOD FOR MEASURING DECARBURIZATION OF STEEL 67-12 M19-83166
NEW CONTRIBUTIONS TO THE SPECTROGRAPHIC DETERMINATION OF IMPURITIES IN URANIUM MATERIALS BY THE FRACTIONAL CARRIER DISTILLATION METHOD 67-12 M19-83493
SPECTRUM ANALYSIS
AN ENERGY ANALYZING ELECTRON MICROSCOPE 67-01 M13-58692
K-SPECTRUM OF METALLIC CA. CONNECTION BETWEEN ELECTRON STRUCTURE OF CA AND TRANSITION METALS OF THE BEGINNING OF THE FIRST PERIOD 67-04 M15-67914
EFFECT OF SAMPLE GRAIN SIZE ON RESULTS OF SPECTRAL ANALYSIS STEELS 67-04 M19-67085
ANALYSIS OF HIGH-ALLOY STEELS ON A VACUUM SPECTROMETER 67-04 M19-67086
K-SPECTRA AND ENERGY BAND STRUCTURE OF METALLIC VANADIUM 67-05 M16-68836
MOSSBAUER SPECTRA IN CRYSTALS CONTAINING DEFECTS 67-05 M16-69639
INFRARED ACTIVE LATTICE MODES IN TELLURIUM 67-06 M16-71169
ELECTRON STRUCTURE OF ALLOYS OF THE CB-ZR SYSTEM 67-06 M16-71475
PARAMAGNETIC RESONANCE OF IONS OF THE IRON GROUP IN PERICLASE SINGLE CRYSTALS 67-06 M16-71476
MOSSBAUER IRON SPECTRA IN THE EPSILON-PHASE HOMOGENEITY REGION OF THE IRON-SILICON SYSTEM 67-06 M16-72373
MASS SPECTROMETRY. CONTRIBUTION TO THE STUDY OF THE ANALYSIS OF ALUMINUM 67-06 M19-72190
MILLIMETER WAVE RADIATION FROM INDIUM ANTIMONIDE 67-07 M16-73999
CONTRIBUTION TO THE VACUUM SPECTROMETRIC ANALYSIS OF NONMETALLIC SUBSTANCES IN STEEL WORKS LABORATORIES 67-08 M04-75508
POROSITY EFFECT OF A CERMET MATERIAL ON RELATIVE INTENSITY OF CERTAIN ELEMENT SPECTRAL LINES 67-08 M09-74313
X-RAY SPECTRAL ANALYSIS OF THE ENERGY SPECTRA OF TI-FE ALLOYS 67-08 M13-74629
X-RAY DIFFRACTION DETERMINATION OF STACKING FAULT PROBABILITY IN METALS WITH FACE-CENTERED CUBIC LATTICE 67-08 M13-75347
MAGNETIC RESONANCE IN SINGLE-CRYSTAL TERBIUM METAL AT 100 GHZ 67-08 M15-75926
STUDY OF THE STATE OF HEMATITE IN IRON SCALE BY SPECTROSCOPY 67-09 M13-77774
PHOTOCONDUCTIVITY OF ANTIMONY-DOPED GERMANIUM IN THE FAR-INFRARED REGION 67-09 M16-76371
EFFECT OF THE GRAIN SIZE OF THE SAMPLE ON THE RESULTS OF THE SPECTRAL ANALYSIS OF STEELS 67-09 M19-78066
OPTICAL AND ELECTRICAL CHARACTERISTICS OF P-N JUNCTIONS IN ZINC SULFIDE 67-11 M15-80628
THE V51 --N, GAMMA-- V52 REACTION 67-11 M16-80327
X-RAY K ABSORPTION EDGES OF ALLOYS. PT. 3. COPPER-ZINC AND NICKEL-ZINC SYSTEMS 67-12 M13-83268
DIMENSIONAL VARIATION OF STEEL MOSAIC UNITS AT LOW TEMPERATURES 67-12 M13-83361
K- AND L-SPECTRA OF METAL-LIKE TITANIUM COMPOUNDS 67-12 M16-82329
ELECTRON STRUCTURES OF ALLOYS OF THE SYSTEM NB-ZR 67-12 M16-82796
PARAMAGNETIC RESONANCE OF IONS OF THE IRON GROUP IN SINGLE CRYSTALS OF PERICLSE 67-12 M16-82797
SPEISSES, X RAY ANALYSIS
INVESTIGATIONS ON CU-NI-AS-S-SYSTEM AND THE DISTRIBUTION OF SILVER ON MATTE AND SPEISS 67-10 M19-78565
SPELTER
SEE ZINC
SPENT LIQUORS, EXTRACTION
ION EXTRACTION BY FOAM. SEPARATION OF URANIUM FROM VANADIUM IN CARBONATE MEDIUM 67-06 M03-71017
SPHALERITE, BENEFICIATION
SPHALERITE DEPRESSION IN PYRITIC CONCENTRATES 67-02 M02-61699
HOW SELECTIVE FLOTATION RECOVERS FOUR MINERALS--CHALCOPYRITE, GALENA, SPHALERITE AND PYRITE 67-07 M02-73214
SPHALERITE, REACTIONS /CHEMICAL/
INVESTIGATION OF THE OXIDATION KINETICS OF ZINC SULPHIDE IN THE REGION OF THE POLYMORPHIC TRANSFORMATION OF SPHALERITE INTO WURTZITE 67-12 M02-82405
SPHERES, FORMING
CLOSED DIES WITH A SLIDING BLOCK FOR REDUCING BILLETS 67-08 M08-75485
CALCULATING THE FORCES FOR STAMPING THE CENTER PART OF A BOTTOM USING A SPHERICAL PUNCH AND DIE 67-08 M08-75486
SPHERES, IRRADIATION
ACTIVATION OF GOLD SPHERES AND FOILS IN NONISOTROPIC NEUTRON INCIDENCE 67-01 M16-58587
SPHERES, MECHANICAL PROPERTIES
THE CREEP OF SPHERICAL SHELLS CONTAINING DISCONTINUITIES 67-09 M17-76450
DEFORMATION THEORY OF HOT PRESSING 67-11 M17-81090
SPHERES, SURFACE FINISHING
ACHIEVING FINE SURFACE TEXTURE AND GEOMETRY WITH MACHINE LAPPING 67-07 M12-74223
SPHERICAL POWDER, NUCLEAR FUELS
A METHOD FOR PREPARING DENSE SPHERICAL PARTICLES OF THORIUM AND THORIUM-URANIUM DICARBIDES 67-07 M09-73151
SPHERICITY
SEE SPHERES
SPHEROIDAL GRAPHITE
SEE NODULAR GRAPHITIC STRUCTURE
SPHEROIDAL IRON
SEE NODULAR IRON
SPHEROIDAL STRUCTURE
SEE ALSO NODULAR GRAPHITIC STRUCTURE
ON THE FINE SPHERICAL CEMENTITE PRECIPITATED IN THE PROEUTECTOID FERRITE OF THE HYPOEUTECTOID PLAIN CARBON STEEL BY QUICK THERMAL CYCLING 67-02 M14-60150
MANUFACTURE OF SPHEROIDAL GRAPHITE IRON CASTINGS IN A JOBBING FOUNDRY 67-06 M06-72186
STUDIES OF MALLEABLE IRON CASTINGS WITH SPHEROIDAL GRAPHITE. PT. 2. THE PROPERTIES OF MALLEABLE IRON CASTINGS WITH SPHEROIDAL GRAPHITE 67-11 M17-80957
SPHEROIDAL STRUCTURE, ALLOYING EFFECTS
STUDIES OF MALLEABLE IRON CASTINGS WITH SPHEROIDAL GRAPHITE. PT. 1. THE PRODUCTION AND MECHANICAL PROPERTIES OF MALLEABLE IRON CASTINGS WITH SPHEROIDAL GRAPHITE 67-11 M17-80956
SPHEROIDAL STRUCTURE, COOLING EFFECTS
SHRINKHOLE PHENOMENA AND TEXTURE FORMATION OF EUTECTIC AL-SI ALLOYS 67-05 M06-68515
SPHEROIDIZING
PRODUCING NODULAR CAST IRON BY BLOWING MAGNESIUM POWDER INTO THE MELT 67-02 M06-59173
STUDIES OF THE SIMULTANEOUS ADDITION OF MAGNESIUM AND RARE EARTH ALLOYS ON THE MANUFACTURE OF NODULAR GRAPHITE CAST IRON 67-02 M06-60148
MANUFACTURE OF SPHEROIDAL GRAPHITE CAST IRON WITH MG AND RARE-EARTH MIXED AGENT 67-02 M06-60754
DIRECT CURRENT PLASMA--A NEW SPHEROIDIZING PROCESS 67-02 M09-59468
THE PRODUCTION AND PROPERTIES OF SPHERICAL COPPER POWDERS AND PARTS FROM SUCH POWDERS 67-02 M09-61781
SHORT CUTTING OF SPHEROIDIZING DURATION OF BALL BEARING STEEL BY AUSTEMPERING ANNEALING 67-02 M10-59154
TRANSPARENT CRYSTAL SIMULATION OF THE DESPHEROIDATION OF THE GRAPHITE PHASE OF CAST IRONS 67-02 M14-61166
ELECTRON MICROSCOPE STUDY OF THE DIFFERENT STAGES OF CRYSTALLIZATION OF SPHERULITES AND FLOCCULAR GRAPHITE IN THE HARD ALLOY NI-C 67-02 M14-61672
ADSORPTION OF GLOBULIZER ELEMENTS ON GRAPHITE CRYSTALS IN CAST IRONS 67-02 M14-61680
DISLOCATION MECHANISM OF THE GROWTH OF SPHEROIDAL GRAPHITE IN IRON 67-02 M14-61929
DEVELOPING A PROCESS OF PLASMA PRODUCTION OF SPHERICAL POWDERS FROM REFRACTORY METALS

67-03 M09-65798
POSSIBILITY OF OBTAINING LARGE SPHERICAL PARTICLES BY PERPENDICULAR FEEDING OF FINE POWDER INTO A PLASMA JET 67-04 M09-67331
EFFECT OF SPHEROIDIZATION ON THE STRUCTURE AND PROPERTIES OF POWDERS 67-04 M09-67332
THE PREPARATION AND STRUCTURE OF ZRO2 SPHERES 67-08 M01-75993
DISTRIBUTION OF ELEMENTS WHICH GLOBULIZE GRAPHITE IN MICROVOLUMES OF CAST IRON 67-08 M04-76030
MAKING NODULAR IRON BY BLOWING MAGNESIUM POWDER INTO THE MELT 67-10 M06-78882
EFFECT OF LANTHANUM ON THE FORM OF GRAPHITE IN AUSTENITIC CAST IRON 67-12 M06-81983
EFFECT OF THE FORM OF GRAPHITE ON MOLD LIFE 67-12 M06-81984
PLASMA FURNACE FOR MELTING AND SPHEROIDIZING OF CERAMIC POWDERS 67-12 M09-82805
FORM OF GRAPHITE IN SULFUR-SATURATED MALLEABLE IRON 67-12 M14-81976

SPHERULITES
STRUCTURE OF ANTIMONY SPHERULITES CRYSTALLIZED FROM AN AMORPHOUS FILM P 147-150 67-02 M13-61938

SPIKE WELDERS
SEE SPOT WELDERS

SPIKE WELDING
SEE RESISTANCE WELDING
SPOT WELDING

SPIKES /LATTICE DEFECTS/, RADIATION EFFECTS
FISSION DAMAGE IN METALS 67-04 M13-67320
RADIATION EFFECTS IN URANIUM 67-04 M14-67322
ATOMIC DISPLACEMENT AND IMPURITY EFFECTS IN FISSILE METALS 67-04 M16-67321

SPIKES /LATTICE DEFECTS/, TEMPERATURE EFFECTS
DISPLACEMENT SPIKES IN CUBIC METALS. PT. 1. ALPHA IRON, COPPER, AND TUNGSTEN 67-01 M16-58753

SPIN /PARTICLE/
SEE PARTICLE SPIN

SPIN CASTING
SEE CENTRIFUGAL CASTING

SPIN FORGING
SEE ALSO FLOW TURNING
SPIN FORMING OF THE BOTTOMS OF PRESSURE VESSELS 67-12 M08-81799
INFLUENCE OF WALL THICKNESS ON PRECISION DURING MANUFACTURE OF BOTTOMS BY SPIN FORMING 67-12 M08-81800
EXPERIMENTAL STUDY OF FORCES IN SPIN FORMING TUBE BOTTOMS 67-12 M08-82065

SPIN HARDENING
NEW FORMULAE FOR SPIN HARDENING GEARS 67-07 M10-72805

SPINDLES, MECHANICAL PROPERTIES
INTERGRANULAR FAILURE OF AUSTENITIC STEEL PUMP SPINDLE 67-08 M17-74508

SPINEL, MAGNETIC PROPERTIES
MAGNETIC SUSCEPTIBILITY AND MOSSBAUER EFFECT MEASUREMENTS IN FEIN2S4 67-10 M16-79362

SPINEL, MECHANICAL PROPERTIES
CHEMICALLY STRENGTHENED, LEACHED ALUMINA AND SPINEL 67-08 M17-76090

SPINEL, MICROSTRUCTURE
CRYSTALLOGRAPHIC STUDIES OF SOME MIXED MANGANITE SPINELS 67-11 M13-81678

SPINEL, PHASE TRANSFORMATIONS
PHASE TRANSFORMATIONS IN MIXTURES OF MGAL2O4-MGO, AL2O3 AND SIO2 67-02 M14-62292

SPINEL, PHASES /STATE OF MATTER/
PHASE EQUILIBRIUM AND THE MECHANISM OF REDUCING SOLID SOLUTIONS IN THE SPINEL REGION OF THE MG-AL-CR-FE-O SYSTEM 67-06 M14-69975
SPINEL TO DEFECT NIAS STRUCTURE TRANSFORMATION 67-08 M14-75996

SPINEL, REACTIONS /CHEMICAL/
CHLORINATING IRON-VANADIUM SPINEL IN SOLID PHASE 67-05 M02-68965

SPINEL, SINTERING
STUDY OF SINTERING AND RECRYSTALLIZATION OF MAGNESIAL SPINEL AND ITS MIXTURE WITH ALUMINA 67-02 M05-62293

SPINEL, TERNARY SYSTEMS
THE SYSTEM KA1SIO4-MG2SIO4-KA1SI2O6 67-08 M13-76091

SPINEL, TRANSPORT PROPERTIES
NEUTRON DIFFRACTION AND ELECTRICAL TRANSPORT PROPERTIES OF CUCR2SE4 67-09 M16-77013

SPINNERETS, MACHINING
TREATMENT OF STEEL WITH LASER RAYS 67-05 M08-68384

SPINNERETS, POWDER METALLURGY
POWDER COMPOSITE SPINNING AND DOUBLING RINGS 67-08 M09-74916

SPINNING /METALS/
SEE ALSO FLOW TURNING
LATHE SPINNING AND FLOW TURNING 67-05 M08-69318
PRESSURE WORKING OF THIN-WALLED PARTS OF MOLYBDENUM 67-06 M07-70477
SPINNING, SHEAR FORMING AND FLOW FORMING 67-06 M07-71900
DETERMINING THE CONTACT AREA WHEN SPINNING BOTTOMS 67-06 M08-70281
METAL SPINNING TOOLS UP FOR SPACE AGE JOBS 67-06 M08-70680
POWDER COMPOSITE SPINNING AND DOUBLING RINGS 67-08 M09-74916
TRY SHEAR-SPINNING TO FORM TOUGH ALLOYS 67-09 M08-77490
DETERMINING THE FORCE IN SPIN FORMING BOTTOMS WITH A FLAT TOOL 67-11 M08-81658

SPLICES
SEE JOINTS

SPLICING
SEE JOINING

SPLINES, MECHANICAL PROPERTIES
THE FATIGUE FACTOR IN ENGINEERING DESIGN 67-08 M17-75613

SPLITTING
SCROLL SLITTING SAVES METAL FOR STAMPING OPERATIONS 67-06 M08-70688

SPONGE IRON
ON THE MECHANISMS AND KINETICS OF HYDROGEN REDUCTION OF ILMENITE ORE 67-02 M02-60153
THE PRODUCTION OF IRON SPONGE 67-05 M04-68484
NEW LIFE FOR THE HYL PROCESS 67-06 M04-70486

SPONGE IRON, EXTRACTION
RESEARCH INTO THE DIRECT REDUCTION OF IRON ORES IN TILTING FURNACES USING REDUCING GASES PRODUCED BY CONVERSION OF METHANE WITH AIR 67-07 M04-72975

SPONGE IRON, MELTING
COMPARATIVE STUDY OF THE CHARACTERISTIC DATA AND ECONOMIC EFFICIENCY OF PRODUCING AND PROCESSING SPONGE IRON 67-08 M04-74684
THE USE OF PREREDUCED MATERIALS IN ROTARY SMELTING FURNACES. PT. 3 67-09 M04-76396
TEST UTILIZATION OF SPONGE IRON FOR STEELMAKING IN ARC FURNACES 67-09 M04-76827
ELECTRIC ARC STEELMAKING WITH CONTINUOUSLY CHARGED REDUCED PELLETS 67-10 M04-78616

SPONGE IRON, REACTIONS /CHEMICAL/
UTILIZATION OF PARTIALLY REDUCED ORE FOR CUPOLA CHARGE 67-08 M04-74675

SPONGE IRON, REDUCTION /CHEMICAL/
REDUCING PROPERTIES OF IRON AND THE BEHAVIOR OF SULFUR DURING THE PRODUCTION OF A SINGLE IRON ORE CHARGE 67-02 M04-59853
CARBON, SULFUR AND OXYGEN IMPURITIES IN IRON POWDER IN RELATION TO CONDITIONS OF REDUCTION BY SOLID CARBON 67-06 M09-69966

SPONGE IRON, STEEL MAKING
MELTING BEHAVIOR OF CARBON-CONTAINING IRON SPONGE IN A ROTARY MELTING FURNACE 67-07 M04-73267
ELECTRIC ARC STEELMAKING WITH CONTINUOUSLY CHARGED REDUCED PELLETS 67-12 M04-82650

SPONGE METAL
SEE ALSO SPONGE IRON
EFFECT OF PRODUCTION CONDITIONS ON PHYSICAL CHARACTERISTICS OF MAGNESIOTHERMIC TITANIUM SPONGE 67-01 M03-57305
DETERMINING THE QUALITY OF TITANIUM SPONGE BY ITS HARDNESS 67-02 M17-61284
FORMING THE STRUCTURE OF SPONGY TI 67-05 M03-68231
POROUS ALUMINUM INGOTS 67-06 M03-70916
QUALITY OF MAGNESIUM-REDUCED TITANIUM SPONGE AS MEASURED FROM THE RESIDUAL AMOUNT OF CHLORINE 67-06 M03-71354
METALLOGRAPHIC ANALYSIS OF POROSITY IN TITANIUM SPONGE, OBTAINED BY REDUCTION WITH MAGNESIUM 67-06 M13-71355

SPONGE METAL, MELTING
THE ELECTRON BEAM MELTING OF TITANIUM 67-08 M03-74356

SPONGE METAL, POWDER METALLURGY
A NEW METHOD FOR COMPACTING METAL OR CERAMIC

SPONGE METAL
POWDERS INTO CONTINUOUS SECTIONS 67-07 M09-73864
SPONGE METAL, REACTIONS /CHEMICAL/
EFFECT OF RATE OF MAGNESIOTHERMAL PRODUCTION OF TITANIUM SPONGE ON ITS STRUCTURE 67-04 M03-66975
MAGNESIUM THERMAL METHOD OF OBTAINING TITANIUM-ALUMINUM ALLOYS 67-06 M03-70947
SPONGE METAL, REFINING
SOURCES OF CARBON CONTAMINATION OF MAGNESIUM-THERMAL SPONGE TITANIUM 67-06 M03-71883
SPONGINESS
SEE POROSITY
SPONTANEOUS COMBUSTION
COMBUSTIBILITY OF METAL POWDER 67-02 M09-61797
SPOT FACING
LAPPING SPOT FACES ON AIR BEARING END PLATES 67-04 M08-67764
SPOT WELDERS
INVESTIGATION OF THE FORM OF THE ELECTRODE SHAPE IN SPOT WELDING OF ALUMINUM ALLOYS 67-04 M11-66807
THE SHAPE OF ELECTRODES FOR SPOT WELDING ALUMINIUM ALLOYS 67-08 M11-75911
SPOT WELDERS, DESIGN
EFFICIENT WELDING OF LARGE-SURFACE WIRE MESH 67-12 M11-82654
SPOT WELDERS, MECHANICAL PROPERTIES
NEW ALLOYS FOR ELECTRODES OF RESISTANCE WELDING MACHINES 67-09 M11-77608
SPOT WELDING
SEE ALSO ARC SPOT WELDING
RESISTANCE SPOT WELDING
ELECTRIC RIVET WELDING THIN-WALLED PANELS TO BENT SHAPES 67-01 M11-57537
MODERNIZED RIGGING FOR SPOT WELDING THIN PIECES 67-01 M11-57538
SPOT AND ROLL WELDING OF LOW-CARBON PROTECTIVE-COATED STEELS 67-01 M11-58214
AN AGGREGATE MACHINE FOR SPOT WELDING HATCH DOORS OF TRUCK SEMITRAILERS 67-01 M11-58280
WELD-QUALITY MONITOR FOR RESISTANCE WELDING 67-01 M11-58351
SOME PARAMETERS OF CONTACT DEPOSIT ELECTROWELDING 67-01 M12-57397
CU-CR ALLOYS FOR RESISTANCE WELDING ELECTRODES 67-02 M11-58998
CLASSIFICATION OF HIGH-QUALITY SPOT WELDED ASSEMBLIES 67-02 M11-59170
PLUG WELDING IN CO2 67-02 M11-59526
SPOT WELDING OF DISSIMILAR METALS--BRASS-TERNE PLATE JOINING 67-02 M11-59760
AUTOMATIC AND SEMIAUTOMATIC CO2 WELDING 67-02 M11-59846
CAPACITOR DISCHARGE MACHINES FOR SPOT-WELDING OF LIGHT ALLOYS 67-02 M11-60018
REVIEW OF THE INTRODUCTION OF THE RESISTANCE WELDING TECHNOLOGY IN THE GERMAN AIRCRAFT INDUSTRY 67-02 M11-60107
EXPERIENCE OF PRODUCING NEW WELDING EQUIPMENT 67-02 M11-60193
IN-PROCESS WELDING CONTROL PROVIDED BY ULTRASONICS 67-02 M11-60933
WELDING EQUIPMENT AND APPARATUS 67-02 M11-61042
THE FORMATION OF REGIONS, RESEMBLING CRACKS, FROM METAL FLOW DURING THE SPOT WELDING OF GRADE MS 68 BRASS 67-02 M11-61052
ARC SPOT WELDING OF THIN SHEATHING TO BENT SECTIONS 67-02 M11-61156
MODIFIED EQUIPMENT FOR THE SPOT WELDING OF THIN COMPONENTS 67-02 M11-61157
ARGON-ARC WELDING ALUMINUM ELEMENTS OF HANGAR ROOFS 67-02 M11-61273
DOUBLE-SPOT WELDING OF HOT ROLLED METAL WHICH IS COVERED WITH SCALE 67-02 M11-62171
TESTS ON SPOT WELDED JOINTS 67-02 M19-61046
STUDY OF WELDING PRIMERS 67-03 M11-65449
REPORT ON THE PRESENT SCOPE OF NONDESTRUCTIVE TESTING OF RESISTANCE SPOT WELDS 67-03 M11-65450
INVESTIGATION OF THE FORM OF THE ELECTRODE SHAPE IN SPOT WELDING OF ALUMINUM ALLOYS 67-04 M11-66807
APPARATUS FOR CONTROLLING THE PROCESS OF SPOT WELDING FROM INFRARED RADIATION 67-04 M11-66836
SOME PROBLEMS IN SPOT WELDING OF STRUCTURAL UNITS 67-04 M11-67009
CONTACT BUILDUP OF THE SURFACES OF ROTATING BODIES 67-04 M11-67011
PLUG WELDING WITH POWDER WIRE 67-04 M11-67012
SEMIAUTOMATIC CO2 WELDING OF SHEET STRUCTURES WITH SPOT CORNER SEAMS 67-04 M11-67013
TEE TWIN SPOT WELDING OF HOT ROLLED METAL COATED WITH SCALE 67-04 M11-67172
A MULTI-ELECTRODE MACHINE FOR SPOT WELDING HATCH COVERS 67-04 M11-67361
SELECTION OF A CONTROL VARIABLE FOR SPOT WELDING ALUMINIUM ALLOYS 67-04 M11-67986
ARGON ARC WELDING OF THE ALUMINIUM COMPONENTS OF A HANGAR ROOF 67-05 M11-68273
SOME FEATURES OF QUALITY CONTROL OF CONTACT WELDING USING REFERENCE MATERIAL 67-06 M11-70388
ADAPTIVE SPOT WELDING ARRICES 67-06 M11-70644
THE BWRA QUALITY MONITOR AND SPOT-WELDING GALVANIZED STEEL SHEET--AN EVALUATION 67-06 M11-71684
PECULIARITIES OF SPOT WELDING OF CLADDINGS AND VARIOUS LIGHT METAL ALLOYS 67-06 M11-71849
NC SPOTWELDING TO RIGID SPECS 67-06 M11-71931
MELTING AND RECRYSTALLIZATION OF WELDED SPOT PRODUCED BY PULSATION ARC WELDING 67-06 M11-72306
UNIT CHECKS SPOT WELDS WHILE THEYRE BEING MADE 67-06 M19-70718
CONDENSER DISCHARGE WELDING OF ALUMINIUM AND ITS ALLOYS BY EMPLOYING INSERTS 67-07 M11-72417
MULTIELECTRODE PLUG WELDING 67-07 M11-72737
CONDENSER WELDING OF TOOL STEELS AND CERMETS 67-07 M11-72740
TITANIUM 67-07 M11-73305
SOME FUNDAMENTAL PROBLEMS IN ULTRASONIC WELDING OF DISSIMILAR METALS 67-07 M11-74280
INCREASING THE FATIGUE LIFE OF SPOT-WELDS IN ALUMINUM AND TITANIUM ALLOYS 67-07 M17-72785
INVESTIGATIONS INTO THE NONDESTRUCTIVE TESTING OF SPOT WELDS IN THICK PLATE WITH ULTRASONIC WAVES 67-07 M19-73714
SPOT WELDING OF NONDESCALED HOT ROLLED SHEET STEEL 67-08 M11-74375
APPLICATION OF A COMBINED WELDING-BRAZING PROCESS FOR WELDED STRUCTURES 67-08 M11-74377
SPOT WELDING OF ARMATURE RODS TO SHEET 67-08 M11-74381
SOME ASPECTS OF SPOT WELDING IN STRUCTURAL ENGINEERING 67-08 M11-74768
RESISTANCE HARDFACING ON AXIALLY SYMMETRICAL COMPONENTS 67-08 M11-74770
ARC SPOT WELDING WITH A CORED ELECTRODE 67-08 M11-74771
SEMI-AUTOMATIC CO2 WELDING WITH FILLET SPOT WELDS IN SHEET METAL STRUCTURES 67-08 M11-74772
THE SHAPE OF ELECTRODES FOR SPOT WELDING ALUMINIUM ALLOYS 67-08 M11-75911
MECHANICAL CHANGES IN THE SURFACE OF SPOT WELDED DEEPDRAWN STEEL 67-08 M17-74558
CONDITIONS FOR SPOT WELDING GALVANIZED SHEET 67-09 M11-77012
INVESTIGATIONS INTO THE LONG-TIME BEHAVIOR OF COMBINED BONDED AND SPOT WELDED JOINTS 67-09 M11-77338
SPOT WELDING GALVANIZED STEEL 67-09 M11-77659
INSPECTION OF RESISTANCE WELDS WITH THE AID OF MARKING MATERIALS 67-09 M11-78088
SPOT AND SEAM WELDING OF GALVANIZED STEEL 67-10 M11-79398
SPOT WELDING ALUMINIUM TO ALITISED STEEL 67-10 M11-79622
HEAT GENERATION AND RESIDUAL STRESS DEVELOPMENT IN RESISTANCE SPOT WELDING 67-11 M11-80413
ELECTROMODELING OF THERMAL PROCESSES IN RESISTANCE SPOT WELDING 67-11 M11-80641
SOME CHARACTERISTICS OF SPOT COLD WELDING 67-11 M11-80642
SPOT WELDING COATED AND DISSIMILAR LIGHT ALLOYS 67-11 M11-80881
THE WELDING OF COATED SHEETS WITH THE CAPACITANCE-DISCHARGE METHOD AND COAXIAL ELECTRODE ARRANGEMENT 67-11 M11-81074
THE MELTING AND SOLIDIFICATION OF PULSED ARC SPOT WELDS 67-11 M11-81578
RESISTANCE SPOT WELDING OF ALUMINUM-MAGNESIUM ALLOYS ON A MTIP-1000 MACHINE 67-12 M11-81919
BETTER WELDS IN GALVANIZED STEEL 67-12 M11-81924

SPOT WELDING OF HOT-ROLLED SHEET STEEL WITHOUT DESCALING 67-12 M11-82248
USE OF BRAZE WELDED SPOT AND SEAM JOINTS IN STRUCTURES 67-12 M11-82250
SPOT WELDING REINFORCING RODS TO ROLLED PLATE 67-12 M11-82254
MULTI-ELECTRODE ARC SPOT WELDING 67-12 M11-82316
CAPACITOR DISCHARGE WELDING OF TOOL STEELS AND HARD ALLOYS 67-12 M11-82319
FATIGUE STRENGTH OF A WELDABLE HIGH STRENGTH MARTENSITIC STAINLESS STEEL 67-12 M11-82820
THE WELDING OF PLASTIC-COATED STEEL SHEET 67-12 M11-83072

SPOT WELDING, NONDESTRUCTIVE TESTING
ADD TWO PLUS ONE FOR NDT--ULTRASONIC VIEW OF A SPOT WELD, MAGNETIC FIELD WHERE ITS NEEDED, GETTING A WELD GUARANTEE ON GAS PIPELINE 67-02 M19-61647
THE AUTOMATIC ULTRASONIC TESTING OF SPOT WELDS 67-06 M11-71222

SPOT WELDING, QUALITY CONTROL
CHOOSING A PARAMETER FOR CONTROLLING SPOT WELDING IN ALUMINUM ALLOYS 67-02 M11-60829
QUALITY CONTROL CRITERIA FOR ACCEPTANCE TESTING OF CROSS-WIRE WELDS 67-06 M11-70007

SPOT WELDS
SEE SPOT WELDING
WELDED JOINTS

SPRAY CASTING
SEE CASTING
FORMING
SPRAY COATING

SPRAY COATING
SEE ALSO SPRAY PAINTING
EXPERIENCES WITH EPOXY POWDER SPRAYING OF METALS 67-01 M12-57551
ORGANIC COATINGS FOR STEEL SHEETS--CONTINUOUS PAINTING LINE 67-01 M12-58489
THE PLASTIC COATING OF METAL PARTS BY FLAME SPRAYING 67-02 M12-59415
EXPERIENCE WITH EPOXY POWDER SPRAY METHODS FOR METAL COATING 67-03 M12-65568
CORROSION PROTECTION OF WEATHER DECKS OF NAVAL SHIPS 67-03 M18-65730
PROTECTION OF STEEL BY METAL SPRAYING.. A REVIEW 67-03 M18-65993
CERAMIC-METAL COMPOSITES 67-04 M09-66280
CORROSION PREVENTION BY ZINC-RICH PAINT SYSTEMS 67-04 M12-66659
COATING METAL PARTS WITH PLASTICS BY THE FLAME SPRAYING PROCESS 67-04 M12-66722
POLYMER COATING OF THE INTERNAL SURFACE IN PIPES 67-04 M12-66817
BRONZE COATED LINK PINS--MANDREL MECHANISM MADE STRONGER WITHOUT SACRIFICING EXPANSION RANGE 67-04 M12-67793
AEROSOL CANS MADE OF AL--THEIR CORROSION AND INTERNAL PROTECTIVE COATING 67-04 M18-68124
VINYL DISPERSION COATINGS FOR METALS 67-06 M12-70610
TUBES VITREOUS ENAMELLED INSIDE OR OUT 67-06 M12-71901
LOUISIANA PRODUCTS LINE COATED WITH ZINC SILICATE SYSTEM 67-06 M18-70893
EPOXY COATING REPORT FROM U. K 67-06 M18-70894
FLAME-SPRAYED COATINGS. PT. 1 67-07 M12-74162
THE CORROSION PROTECTION OF STEEL STRUCTURES BY SPRAY GALVANIZING 67-07 M18-73233
PLASMA SPRAYING OF BLAST FURNACE AIR TUYERES 67-08 M12-76266
A PHOSPHATE COATING THAT CAN BE WELDED 67-10 M12-78635
PLASMA SPRAYING OF BLAST-FURNACE TUYERES 67-10 M12-79259
ELECTROSTATIC SPRAYING OF POWDERS 67-10 M12-79786
THE PRESENT STAND OF METAL SPRAY TECHNOLOGY. PT. 3 67-11 M12-81135
LEAD PHOSPHATE PROTECTS STEEL AND PRESERVES ITS WELDABILITY 67-12 M12-82646

SPRAY FORMING
SEE CASTING
FORMING
SPRAY COATING

SPRAY PAINTING
LATEST DEVELOPMENTS IN ZINC-RICH PAINTS 67-03 M12-65627
ELECTROPAINTING AT MASSEY-FERGUSON TRACTORS 67-04 M12-66720
DEVELOPMENTS IN ELECTROSTATIC SPRAY PAINTING AND FLUIDIZED BED COATING 67-05 M12-68825
INSTITUTE OF METAL FINISHING TRANSACTIONS 67-05 M12-68833
NINE STEPS TO A MORE DURABLE PAINT FINISH 67-07 M12-72403
PAINTING GALVANIZED STEEL FRAMES 67-08 M12-75397

SPRAY QUENCHING
DEVELOPMENT IN EQUIPMENT AND PRACTICES FOR QUENCHING STEEL PLATES 67-03 M10-65923
DEVELOPMENT IN EQUIPMENT AND PRACTICES FOR QUENCHING STEEL PLATES 67-04 M10-67368
QUENCHING STEEL PLATE ON THE FLY 67-06 M10-70728
ROLLER QUENCH IS UNIQUE FEATURE OF A NEW HEAT TREATING LINE 67-07 M10-72621
PRACTICAL ISSUES IN HEAT TREATMENT OF LARGE FORGINGS 67-07 M10-74169
DEVELOPMENT IN EQUIPMENT AND PRACTICES FOR QUENCHING STEEL PLATES. PT. 1 67-08 M10-75498
OPERATING TEMPERATURES ON A SPRAY-COOLED AND UNDER-COOLED CARBON HEARTH BLAST FURNACE 67-09 M04-76499
DEVELOPMENT IN EQUIPMENT AND PRACTICES FOR QUENCHING STEEL PLATES. PT. 2 67-09 M10-77745

SPRAY STEEL MAKING
CONTINUOUS STEELMAKING CUTS COSTS 67-03 M04-65106
REFINING STEEL BY ATOMIZATION 67-03 M04-65436
OXYGEN ATOMIZES MOLTEN IRON IN SPRAY STEELMAKING PROCESS 67-03 M04-65485
CONTINUOUS STEELMAKING FROM ORE TO BILLET 67-03 M04-65624
MILLOM TO MAKE STEEL BY BISRAS SPRAY PROCESS 67-04 M04-66405
SPRAY STEELMAKING PLANT IN OPERATION AT MILLOM 67-04 M04-68053
SPRAY STEELMAKING--A DESCRIPTION OF THE PROCESS 67-04 M04-68109
SPRAY STEELMAKING PROVED IN PRACTICE 67-05 M04-69870
THE BISRA SPRAY STEELMAKING PROCESS 67-06 M04-70653
B. I. S. R. A. SPRAY STEELMAKING PROCESS 67-06 M04-71296
SPRAY STEELMAKING 67-08 M04-74382
SPRAY STEELMAKING--PROGRESS AND PROSPECTS 67-09 M04-76470
SPRAY PROCESS HOLDS PROMISE FOR CONTINUOUS STEELMAKING 67-09 M04-76477
SPRAY STEELMAKING AT MILLOM 67-11 M04-81136
SPRAY STEELMAKING 67-11 M04-81137

SPRAYED COATINGS
LEAD PHOSPHATE PROTECTS STEEL AND PRESERVES ITS WELDABILITY 67-04 M12-66503
FLAME SPRAYING BY MEANS OF PLASMA AND ELECTRIC ARC 67-05 M12-69122
PLASMA SPRAYING AND THE PRODUCTION OF HEAT RESISTANT PROTECTIVE COATINGS ON STEEL 67-06 M12-71506

SPRAYED COATINGS, MECHANICAL PROPERTIES
ON RESIDUAL STRESSES IN SPRAYED COATINGS BY PLASMA-JET
INSTITUTE FOR METALS, PROCEEDINGS. TOKYO, JAPAN. 67-04 M17-67591

SPRAYING
SEE ALSO ARC SPRAYING
ELECTROSPRAYING
FLAME SPRAYING
METAL SPRAYING
PLASMA ARC SURFACING
PLASMA SPRAYING
POWDER SPRAYING
SPRAY COATING
SPRAY PAINTING
SPRAY QUENCHING
METALLIZING DEVELOPMENTS UTILIZING STABILIZED METHYLACETYLENE PROPADIENE 67-03 M12-65298

SPRAYING, AUTOMATION
AUTOMATIC METALLIZING OF BUTANE BOTTLES 67-11 M12-81400

SPRINGS /ELASTIC/
SEE ALSO HELICAL SPRINGS
LEAF SPRINGS
PRODUCTION LINE FOR HIGH-QUALITY SUSPENSION

SPRINGS /ELASTIC/
COIL SPRINGS 67-01 M01-58790
VARIATION OF THE EXTERNAL FORM OF CEMENTITE AND MECHANICAL PROPERTIES DURING STRAIN AGING OF SPRING STEELS 67-04 M17-66877
STAINLESS STEEL SPRING WIRE 67-05 M07-68673
SPECIAL FEATURES IN THE PRODUCTION OF STAINLESS STEEL SPRING WIRE 67-07 M17-74150
PROPERTIES OF ALLOYED NI-BE ALLOYS 67-08 M17-74984
INFLUENCE OF SURFACE OXIDATION ON THE ELASTIC AFTEREFFECT OF MICROFOILS OF DIFFERENT ALLOYS 67-08 M17-74985
DRAWN STEEL WIRE FOR THE MANUFACTURE OF SPRING RINGS 67-12 M07-82444
STAINLESS STEEL WIRE--WHERE IT IS TODAY 67-12 M20-82277
APPLICATION FOR BRIGHT STAINLESS STEELS 67-12 M20-83300
SPRINGS /ELASTIC/, COATING
USE OF MULITLAYER COATINGS FOR CORROSION PROTECTION OF SPRINGS IN WATER AT HIGH 67-01 M18-58706
SPRINGS /ELASTIC/, HEAT TREATMENT
AUSTEMPERING OF SPRINGS IN MOLTEN SALT BATHS FITTED WITH CONVEYOR BELTS 67-07 M10-72484
THE BRIGHT-HARDENING OF VERY THIN-WALLED PARTS IN AN EXISTING MULTIPURPOSE RETORT FURNACE 67-07 M10-74214
PATENTING OF STEEL STRIP IN FLUIDIZED BED AFTER ROLLING 67-09 M10-77370
ELECTRIC TEMPER OF SPRING STEEL 67-09 M10-77372
SPRINGS /ELASTIC/, MATERIALS
INVESTIGATION OF THE MECHANICAL PROPERTIES AND RELAXATION RESISTANCE OF COPPER-TITANIUM ALLOYS 67-01 M17-57313
HIGH-TEMPERATURE ELECTROTHERMOMECHANICAL TREATMENT OF SPRING STEEL 67-02 M10-62231
QUALITY OF STEEL FROM CONTINUOUSLY CAST BILLETS. PT. 2. QUALITY OF SPRING STEEL FROM CONTINUOUSLY CAST BILLETS 67-05 M01-68731
THE MANUFACTURE OF BEDDING AND SEATING WIRE FOR AUTOMATIC SPRING COILERS 67-10 M20-79424
SPRINGS /ELASTIC/, MECHANICAL PROPERTIES
INVESTIGATION OF THE EFFECT OF HIGH-TEMPERATURE AUSROLLING ON THE MECHANICAL PROPERTIES OF SPRING STEEL 67-01 M17-58032
INVESTIGATION OF THE POSSIBILITIES OF USING WROUGHT ALUMINUM ALLOYS, ESPECIALLY OF THE TYPE ALZNMGCU, FOR SPRINGS SUBJECTED TO BENDING AND TORSIONAL STRESSES. PT. 2 67-01 M17-58224
INVESTIGATION OF TEMPER BRITTLENESS OF SPRING STEEL 67-02 M17-60739
THE INHERENCE OF THE PROPERTIES OF THERMOMECHANICALLY TREATED STEEL 67-02 M17-61931
EFFECT OF PHASE COMPOSITION ON THE RESISTANCE OF 1KH12N2VMF STEEL TO RELAXATION 67-05 M17-68367
INFLUENCE OF SILICON ON THE ELASTICITY OF SPRING STEELS 67-05 M17-68386
X-RAY INVESTIGATION ON THE DEFORMATION AND FATIGUE FRACTURE OF SPRING STEEL IN PLANE BENDING 67-05 M17-68465
WAYS TO INCREASE THE LIFE OF SPRINGS 67-06 M17-70076
HIGH-TEMPERATURE SPRINGS 67-06 M17-71231
ON BAUSCHINGERS EFFECT DURING BENDING OF SPRING STEEL STRIP 67-07 M17-73173
INFLUENCE OF THERMOMECHANICAL TREATMENT ON THE PROPERTIES OF 36NKHTYU, 36NKHTYUM8 AND 42NKHTYU SPRING ALLOYS 67-08 M17-74982
NIOBIUM SPRING ALLOY WITH A STABLE ELASTIC MODULUS AT HIGH TEMPERATURES 67-08 M17-74983
MECHANICAL PROPERTIES OF PHOSPHOR BRONZE WIRE SPRING 67-08 M17-75949
METHOD OF INCREASING THE ENDURANCE OF COMPRESSION SPRINGS 67-10 M17-78822
THE EFFECTS OF THERMOMECHANICAL TREATMENT ON THE MECHANICAL STRENGTH OF SPRING STEELS AFTER THEY HAVE BEEN USED 67-10 M17-78953
SPRINGS /ELASTIC/, METAL WORKING
STAINLESS STEEL WIRE SPRING 67-06 M08-72045
PRODUCING THIN-WALLED TUBULAR BILLETS IN 4KH13 STEEL AND SHAPING THE WORKING PORTION OF A COILED TUBULAR SPRING 67-12 M08-82066
SPRINGS /ELASTIC/, WELDING
PERCUSSION WELDING OF RELAY ELEMENTS 67-03 M11-65054
CAPACITOR DISCHARGE SPOT WELDING OF RELAY ELEMENTS 67-07 M11-73974
SPROCKETS, HARD SURFACING
AUTOMATIC TAPE-ELECTRODE RECLAMATION OF TRACKED TRACKED TRACTOR GUIDEWHEELS 67-01 M12-58166
SPRUE
CALCULATING THE GATING-FEEDING SYSTEMS FOR THIN-WALLED ELONGATED CASTINGS 67-04 M06-66416
SPRUE AND RUNNER DESIGN 67-10 M06-78584
SPUN GLASS
SEE GLASS FIBERS
SPUR GEARS, HEAT TREATMENT
INDUCTION HARDENING OF LARGE GEARS 67-08 M10-75558
AUTOMATIC INDUCTION HARDENING OF LARGE GEARS 67-09 M10-76903
SPUR GEARS, MECHANICAL PROPERTIES
GEAR TOOTH STRESS OF AN END-RELIEVED SPUR GEAR 67-03 M17-65200
WHY GEARS FAIL 67-04 M17-67909
ROOT STRENGTH OF FLAME-HARDENED AND BATH-NITRIDED SPUR GEARS 67-08 M17-74759
SPUTTERING
SEE ALSO CATHODE SPUTTERING
EPITAXIAL DEPOSITION OF GERMANIUM BY BOTH SPUTTERING AND EVAPORATION 67-01 M14-57106
GOLD FILMS AND GOLD FILM LIGHT FILTERS 67-02 M12-58909
LIQUID BRIGHT GOLD COATINGS AND GOLD LEAF 67-02 M12-58910
INVESTIGATION OF SI-TA2O5 SYSTEM PREPARED BY REACTIVE SPUTTERING 67-02 M16-60521
SIMPLIFIED OPERATIONS ANALYSIS IN CONTINUOUS SPUTTERING OF THIN FILMS 67-03 M12-65066
TANTALUM INTEGRATED CIRCUITS 67-04 M14-66881
FACE-CENTERED-CUBIC TUNGSTEN FILMS 67-04 M14-68073
THE OBSERVED NATURE OF PRIMARY DAMAGE 67-04 M16-67304
WARM-WELDING OF METALS IN ULTRA-HIGH VACUUM 67-06 M11-70953
EPITAXIAL GROWTH OF SILVER AND NICKEL FILMS BY CATHODE SPUTTERING ON NACL CRYSTALS CLEAVED IN VACUUM 67-06 M14-70524
REACTIVELY SPUTTERED VANADIUM DIOXIDE THIN FILMS 67-06 M14-72199
DEPOSITION OF TANTALUM AND TANTALUM OXIDE BY SUPERIMPOSED RF AND D-C SPUTTERING 67-07 M12-73458
BIAS SPUTTERING.. ITS TECHNIQUES AND APPLICATIONS 67-07 M12-73835
SPUTTERING OF A GOLD HEMISPHERICAL SINGLE CRYSTAL 67-07 M16-73141
LOW ENERGY TRIODE SPUTTERING 67-08 M12-75040
AN EVALUATION OF SPUTTERING PROCESSES FOR LONG-TERM ELECTRIC PROPULSION SYSTEM TESTING 67-08 M12-75041
RF SPUTTERING OF INSULATORS 67-08 M12-75043
SOME APPLICATIONS OF TRIODE SPUTTERING TO INTEGRATED CIRCUITS CIRCUITS 67-08 M12-75602
THE SPUTTERING OF TRAPPED GAS FROM TUNGSTEN 67-08 M16-74389
TANTALUM OXIDE FILMS PREPARED BY OXYGEN PLASMA ANODIZATION AND REACTIVE SPUTTERING 67-09 M12-76750
LOW ENERGY SPUTTERING OF RESISTIVE FILMS 67-09 M12-77532
A HIGH CURRENT VACUUM DISCHARGE FOR TRIODE-SPUTTERING IN THE 10-4 TORR RANGE 67-09 M12-77533
METHOD OF OBTAINING HOMOGENEOUS FILMS OF SEMICONDUCTING III-V COMPOUNDS 67-09 M14-76770
ION BOMBARDMENT OF SOLIDS 67-09 M16-77544
EFFECT OF BACKGROUND-GAS IMPURITIES ON THE FORMATION OF SPUTTERED BETA-TANTALUM FILMS 67-11 M15-81078
THE DEPOSITION OF ATOMS SPUTTERED IN AN ABNORMAL GLOW DISCHARGE 67-11 M16-80127
ORIENTED GROWTH OF THE INTERFACIAL PTSI LAYER BETWEEN PT AND SI 67-11 M16-81205
ADHESION OF SPUTTERED GOLD FILMS ON GLASS 67-12 M12-83548
GAS INCORPORATION INTO SPUTTERED FILMS 67-12 M14-83264
THE MAGNETIC PROPERTIES OF SPUTTERED NIFE FILMS 67-12 M15-83276
SQUEEZING

SEE COMPRESSING
STABILITY
SEE ALSO DIMENSIONAL STABILITY
PHASE STABILITY
THERMAL STABILITY
MEASUREMENTS OF THE ANISOTROPY OF THE DISLOCATION RESISTIVITY IN AU, AG, AND CU
67-03 M13-65217
STABILIZATION
THE ROLE OF THE GAS PHASE IN THE OXIDATION OF TITANIUM AND ALUMINUM DURING ELECTRO-MELTING OF STAINLESS STEEL 67-04 M04-66613
A THERMAL STABILIZATION OF AUSTENITE
67-04 M14-66929
STABILIZING ANNEALING
ELASTIC MODULUS OF STABILIZED ZIRCONIA
67-08 M17-76096
STABILIZING TREATMENT
SEE STABILIZATION
STACKING FAULT ENERGY
SEE FREE ENERGY OF ACTIVATION
STACKING FAULTS
STACKING FAULTS
X-RAY DIFFRACTION MEASUREMENTS OF STACKING FAULTS IN ALPHA SILVER-TIN ALLOYS 67-01 M13-57122
INVESTIGATION OF STACKING FAULTS, DISPERSION AND COHERENT SCATTERING REGIONS AND THE MICRODEFORMATION IN CONDENSED FILMS OF PERMALLOY AND NICKEL 67-01 M13-57349
X-RAY STUDY OF COLD-WORKED SILVER-ANTIMONY ALLOYS
67-01 M13-57413
ELECTRON DIFFRACTION CONTRAST OF SMALL STACKING FAULT TETRAHEDRA WITH APPLICATIONS TO QUENCHED GOLD 67-01 M13-57574
THE EFFECT OF SMALL DEFORMATION ON THE STATIC DISPLACEMENT OF ATOMS IN COPPER AND MOLYBDENUM
67-01 M13-58139
THE PHASE CHANGE OF ZINC SULPHIDE AND THE STACKING SEQUENCE OF A NEW 66R POLYTYPE
67-01 M14-57479
STACKING FAULTS IN STEAM-OXIDIZED SILICON
67-02 M13-58946
PROPAGATION OF STACKING FAULTS IN WORK HARDENED FACE CENTERED CUBIC METALS 67-02 M13-60214
ELECTRON MICROSCOPY OF THIN TWINS AND STACKING FAULTS 67-02 M13-60516
THE STACKING-FAULT ENERGY IN THE AG-IN SERIES
67-02 M13-60809
THERMAL BEHAVIOR OF STACKING FAULTS IN GRAPHITE PLATELETS 67-02 M13-61080
X-RAY DIFFRACTION ANALYSIS OF STACKING FAULTS IN CONDENSED COBALT FILMS 67-02 M13-61676
STACKING FAULTS IN FCC METALS AND ALLOYS
67-02 M13-61932
DEFORMATION STACKING FAULTS IN RHODIUM AND IRIDIUM
67-02 M13-61945
ACCOMMODATION FAULTING IN FE-NI MARTENSITIC TRANSFORMATION 67-02 M14-58968
THE ELECTRICAL RESISTANCE OF PLATINUM AT REPEATED QUENCHING. PT. 1. THE REVERSIBLE CHANGE
67-02 M15-61096
STACKING FAULT ENERGY OF FACE CENTERED CUBIC METALS ESTIMATED BY ELECTRON MICROSCOPIC ANALYSIS OF DIFFRACTION CONTRAST OF FAULTED DIPOLES
67-03 M13-65216
THE DETERMINATION OF THE NATURE OF STACKING FAULTS IN FCC METALS FROM THE BRIGHT FIELD IMAGE
67-03 M13-65374
STACKING FAULT DIPOLES IN FACE-CENTERED CUBIC METAL
67-03 M13-65376
THE ELECTRON MICROSCOPIC STRUCTURE AND LATTICE DEFECTS OF THE MARTENSITE IN COMMERCIALLY PURE TITANIUM 67-03 M13-65840
STRENGTHENING OF ALLOY STEELS BY AUSFORMING
67-04 M07-67564
COHERENT --110-- BOUNDARIES OF BCC TWINS
67-04 M13-66074
STACKING FAULTS AND ANTIPHASE BOUNDARIES IN U409
67-04 M13-67467
DEFECT FORMATION IN EPITAXIAL FILMS ON NATIVE AND FOREIGN SUBSTRATES 67-04 M13-67741
AN X-RAY STUDY OF THE EFFECT OF MANGANESE ON THE OCCURRENCE OF STACKING FAULTS IN SILVER-BASE ALLOYS 67-04 M14-66334
CONDITIONS CONTROLLING MATRIX AND STACKING FAULT PRECIPITATION 67-04 M14-66548
CHANGE IN THE TENDENCY OF PHOSPHORUS-DOPED COPPER TO THE FORMATION OF STACKING FAULTS
67-04 M14-67100
DIRECT OBSERVATION OF SAP STRUCTURE FAULTS
67-04 M17-66046
HARDENING BY STACKING FAULT PRECIPITATION IN AN 18CR-12NI-NB AUSTENITIC STEEL
67-04 M17-67190
THE ENERGY OF DISSOCIATED TRIANGULAR FRANK DISLOCATION LOOPS IN F. C. C. METALS
67-05 M13-68754
THE NATURE OF DEFECTS IN QUENCHED NICKEL
67-05 M13-68755
THE THEORY OF STACKING-FAULT ENERGIES IN CLOSE-PACKED METALS 67-05 M13-68759
CRYSTAL IMPERFECTIONS 67-05 M13-68990
THE FORMATION OF LATTICE DEFECTS BY SHOCK WAVES
67-05 M13-69157
ESTIMATE OF EXTRINSIC STACKING-FAULT ENERGIES FROM DISLOCATION CONFIGURATIONS 67-05 M13-69204
THE MEASUREMENT OF STACKING FAULT ENERGY
67-05 M13-69454
STUDY OF STACKING FAULTS IN FACE CENTERED CUBIC NICKEL ALLOYS 67-05 M13-69455
STUDY OF HYDROGENATED NICKEL 67-05 M13-69458
INTERSECTING OF STACKING FAULTS
67-05 M13-69459
ENERGIES OF STACKING FAULTS AND TWINS FOR NORMAL METALS 67-05 M13-69460
X-RAY DIFFRACTION STUDY OF STRUCTURAL IMPERFECTIONS ARISING FROM GAMMA-EPSILON TRANSFORMATIONS
67-05 M14-68840
MEASUREMENT OF STACKING-FAULT ENERGIES BY X-RAY DIFFRACTION 67-05 M14-69217
NUCLEATION OF DEFECTS IN METALS
67-05 M14-69730
EFFECT OF STACKING FAULT ENERGY ON THE COLD SHORTNESS OF METALS WITH A B. C. C. LATTICE
67-05 M17-68849
THE NATURE OF TRANSITION TEXTURES IN COPPER
67-06 M13-69935
DISLOCATION NODE DETERMINATIONS OF THE STACKING FAULT ENERGY IN SILVER-TIN ALLOYS
67-06 M13-70405
STACKING FAULT DENSITIES IN HEXAGONAL --ZETA PHASE-- COPPER-GERMANIUM ALLOYS
67-06 M13-70899
DISLOCATION CONFIGURATIONS IN WIRE-DRAWN POLYCRYSTALLINE COPPER ALLOYS.. A STUDY BY X-RAY DIFFRACTION 67-06 M13-71089
STACKING-FAULT TETRAHEDRA IN --001-- EPITAXIAL SILICON FILMS 67-06 M13-71091
SOME ELECTRON DIFFRACTION CONTRAST EFFECTS AT PLANAR DEFECTS IN CRYSTALS 67-06 M13-71280
ELECTRON MICROSCOPE IMAGE PROFILES OF PLANAR DEFECTS IN CRYSTALS 67-06 M13-71281
THE BURGERS VECTOR OF DISLOCATION LOOPS IN GRAPHITE
67-06 M13-71287
DISLOCATION DISTRIBUTION IN DEFORMED SILVER SINGLE CRYSTALS 67-06 M13-71525
FAULTED DEFECTS AND STACKING-FAULT ENERGY
67-06 M13-71534
STACKING FAULT ENERGIES OF THE STRUCTURALLY RELATED CU-GA FCC AND HCP PHASES 67-06 M13-71958
THE OBSERVATION OF INTERSTICE LATTICE STACKING FAULTS IN ALPHA-TI-O ALLOYS 67-06 M13-71964
BASAL AND PRISMATIC SLIP IN HCP CRYSTALS
67-06 M13-71974
STACKING FAULT TETRAHEDRA IN FATIGUED STAINLESS STEEL 67-06 M13-72223
MEASUREMENTS OF STACKING-FAULT ENERGIES IN CO-NI AND CO-NI-CR ALLOYS 67-06 M13-72239
STRUCTURAL DEFECTS IN EPITAXIAL GALLIUM ARSENIDE
67-07 M13-72918
X-RAY DIFFRACTION BY HEXAGONAL CLOSE-PACKED CRYSTALS CONTAINING EXTRINSIC STACKING FAULTS
67-07 M13-72938
THE ROLE OF STACKING FAULTS IN SOME PROBLEMS OF GLIDE AND TWINNING IN CUBIC METALS
67-07 M13-73056
THE STACKING-FAULT ENERGY IN ALPHA-SILVER-TIN ALLOYS 67-07 M13-73071
DEFECTS DESCRIBED IN QUENCHED ALLOYS
67-07 M13-73083
COMPARISON OF THE ENERGY OF STACKING FAULTS WITH THE ELECTRON STRUCTURE OF THE METAL
67-07 M13-73483
LATTICE DEFECTS 67-07 M13-73675
THE STACKING FAULT DENSITY IN SOLID SOLUTIONS BASED ON COPPER, SILVER, NICKEL, ALUMINIUM AND LEAD 67-07 M13-73906
THE STRUCTURE OF ELECTRODEPOSITS AND CATALYSTS

STACKING FAULTS

EXAMINED BY X-RAY DIFFRACTION TECHNIQUES 67-07 M13-74220
STACKING FAULT PROBABILITIES IN COPPER-ALUMINUM MARTENSITE TRANSFORMED IN THIN FOILS 67-07 M14-73984
X-RAY DIFFRACTION DETERMINATION OF STACKING FAULT PROBABILITY IN METALS WITH FACE-CENTERED CUBIC LATTICE 67-08 M13-75347
STACKING FAULTS IN NICKEL POWDERS 67-08 M13-75421
PREPARATION AND SOME PROPERTIES OF SOLID SOLUTIONS CD1-XMGXTE 67-08 M14-75058
DEFECTS IN SILICON CRYSTALS GROWN BY THE VLS TECHNIQUE 67-08 M14-75117
PHASE STABILITY AND STACKING FAULTS IN CERIUM ALLOYS 67-08 M14-75124
STRUCTURE AND HARDNESS OF AUSFORMED OR DEFORMED FERROUS MARTENSITES 67-08 M17-75151
THE FORMATION OF EXTRINSIC-INTRINSIC FAULTING 67-09 M13-76589
STABILIZATION OF QUENCHING TETRAHEDRA OF STACKING FAULTS IN COPPER BY MEANS OF ALUMINUM IMPURITY 67-09 M13-76786
INTERSECTING STACKING FAULTS IN FACE-CENTERED CUBIC LATTICES 67-09 M13-77924
THE CASE OF THE HIGH STRENGTH OF HADFIELD STEELS 67-09 M14-76694
PEARLITE AND BAINITE FORMATION IN A CU-16.5 AT. PER CENT SN ALLOY 67-09 M14-77592
THE MICROSTRUCTURE OF SINGLE-CRYSTAL TITANIUM CARBIDE 67-10 M13-78666
DISLOCATION FREE EPITAXIAL GAAS 67-10 M14-78443
CLIMB KINETICS OF DISLOCATION LOOPS IN ALUMINIUM 67-10 M14-78904
CALCULATIONS ON THE MECHANICAL ENERGY OF VACANCY CONDENSATION LOOPS, STACKING FAULT TETRAHEDRA, AND VOIDS 67-10 M14-79006
EFFECT OF STACKING FAULTS AND TWINS ON THE COERCIVE FORCE OF THIN MAGNETIC FILMS 67-10 M15-79162
DISLOCATIONS AND ELECTRONS IN METALS 67-10 M16-78312
THE EFFECT OF CARBON AND NICKEL UPON THE STACKING-FAULT ENERGY OF IRON 67-11 M13-80107
THE STUDY OF CRYSTAL IMPERFECTIONS BY MEANS OF OPTICAL METHODS AND BY MEANS OF ELECTRON MICROSCOPY AND ELECTRON DIFFRACTION 67-11 M13-80140
STACKING FAULTS IN TUNGSTEN 67-11 M13-80233
X-RAY STUDY OF COLD WORK AND RECOVERY IN SOME HCP METALS AND ALLOYS 67-11 M13-80377
X-RAY MEASUREMENTS OF STACKING FAULTS IN SILVER-ANTIMONY ALLOYS 67-11 M13-80490
FINE FAULTS AND CRYSTAL STRUCTURES OF PRECIPITATES IN FE-MO AND FE-W ALLOYS 67-11 M13-80811
STUDIES ON DEFORMED SUPERFICIAL LAYERS PRODUCED BY ABRASION IN 18-8 STAINLESS STEEL BY TRANSMISSION ELECTRON MICROSCOPY 67-11 M13-80954
FIELD-ION MICROSCOPY OF COBALT 67-11 M13-81088
REMARKS ON THE STRUCTURE OF MARTENSITES IN CU-AL ALLOYS 67-11 M13-81269
DIRECT OBSERVATION OF THE STACKING ORDER IN BETA1 PRIME CU-AL MARTENSITE 67-11 M13-81270
CRYSTAL GROWTH AND DEFECT STRUCTURE OF ZINC SULFIDE AND ZINC SELENIDE PLATELETS 67-11 M14-81094
THERMALLY ACTIVATED DEFORMATION OF ALPHA ZIRCONIUM 67-11 M14-81347
ORDERING AND DISLOCATION PAIRS IN AN FE-6.0 WT PER CENT SI ALLOY 67-11 M14-81357
ELECTRON MICROSCOPIC STUDY OF SUBSTRUCTURE DEVELOPED AROUND FATIGUE CRACKS 67-11 M17-81066
A NEW MECHANISM FOR STACKING FAULT GENERATION IN EPITAXIAL GROWTH OF SILICON IN ULTRAHIGH VACUUM 67-12 M12-82219
STACKING FAULTS IN A NON-STOICHIOMETRIC FACE-CENTERED CUBIC TAC 67-12 M13-82001
ON THE FORMATION OF DISLOCATION LOOPS IN QUENCHED AUSTENITE 67-12 M13-82346
FORMATION OF STACKING FAULTS IN POLYCRYSTALLINE BRASS DURING TENSILE DEFORMATION 67-12 M13-82541
X-RAY STUDY OF COLD WORKED SILVER-ANTIMONY ALLOYS EFFECTS DUE TO EXTRINSIC STACKING FAULTS 67-12 M13-82586
FAULTING IN COLD WORKED FE-SI ALLOY FILINGS 67-12 M13-82723
AN X-RAY DIFFRACTION STUDY OF POLYCRYSTALLINE BRASS DEFORMED IN TENSION 67-12 M13-82736
FAULTING IN COMPACTED AG-9 AT. PER CENT SN ALLOY POWDERS 67-12 M13-83050
AN X-RAY STUDY OF THE INFLUENCE OF STACKING FAULT ENERGY ON THE FATIGUE BEHAVIOR OF NICKEL-COBALT ALLOYS 67-12 M17-83069

STACKING FAULTS, ALLOYING EFFECTS
FAULTING IN COLD WORKED TA-10 PER CENT RE AND W-20 PER CENT RE 67-01 M13-58455
AN X-RAY STUDY OF THE EFFECTS OF NICKEL AND MANGANESE ON THE OCCURRENCE OF STACKING FAULTS IN COPPER-BASE ALLOYS 67-02 M13-60644
DETERMINATION OF THE STACKING FAULT ENERGY OF ALLOYS BY THE NODE AND TAU3 METHODS 67-06 M13-71664
FAULTING IN COLD WORKED TA-10 PER CENT RE AND W-20 PER CENT RE 67-06 M17-71086
LONG PERIOD STACKING ORDER IN CLOSE PACKED STRUCTURES OF AU-CD ALLOYS 67-10 M13-78719

STACKING FAULTS, COMPOSITION EFFECTS
LONG PERIOD STACKING ORDER IN CLOSE PACKED STRUCTURES OF METALS 67-05 M14-68275

STACKING FAULTS, IMPURITY EFFECTS
SOME ELECTRICAL-RESISTIVITY MEASUREMENTS ON CERIUM METALS OF VARIOUS PURITIES 67-06 M15-69930
EFFECTS OF IMPURITIES ON THE STRUCTURE OF EPITAXIAL GOLD FILMS 67-09 M14-77461
MOBILITY OF INTERSTITIAL DEFECTS IN GOLD BOMBARDED WITH 270 EV GOLD IONS IN STAGE III 67-09 M14-77520

STACKING FAULTS, STRESS EFFECTS
THE INFLUENCE OF DEFORMATION ON COHERENCE LENGTH, LATTICE DISTORTIONS AND STACKING FAULT PROBABILITY OF UNIAXIALLY STRAINED HOMOGENEOUS AND HETEROGENEOUS ALLOYS 67-02 M13-60876
TWINNING AND DEFORMATION OF BE BY THE CLIMB OF DISLOCATIONS 67-05 M13-69456
STACKING FAULTS OF ALPHA-URANIUM 67-05 M13-69457
IMPERFECTIONS IN DEFORMED PALLADIUM 67-06 M13-71064
DEVELOPMENT OF DRAWING AND COMPRESSION TEXTURES 67-09 M14-77992

STAINLESS STEELS
SEE ALSO AUSTENITIC STAINLESS STEELS
FERRITIC STAINLESS STEELS
MARTENSITIC STAINLESS STEELS
HIGH-STRENGTH STEELS 67-03 M01-65002
A. C. I. TYPE CK-20 --CORROSION & HEAT RESISTING STEEL-- 67-04 M01-68071
THE DESIGN OF CHEMICAL PLANT IN CHROMIUM AND STAINLESS STEEL. PT. 1 67-06 M20-70557
WROUGHT STEELS PRIMER 67-12 M01-83177
THE USE OF CORROSION RESISTANT STEELS AND ALLOYS IN NUCLEAR REACTOR CONSTRUCTION 67-12 M20-83299
APPLICATION FOR BRIGHT STAINLESS STEELS 67-12 M20-83300

STAINLESS STEELS, AEROSPACE
EMERGING AEROSPACE MATERIALS AND FABRICATION TECHNIQUES 67-06 M20-72200

STAINLESS STEELS, ALLOYING
EFFECTS OF INOCULANTS ON THE PROPERTIES OF KH25N20S2 STEEL 67-10 M17-78982

STAINLESS STEELS, ALLOYING EFFECTS
RESIDUALS IN STEEL FOR FORGINGS 67-06 M19-71822

STAINLESS STEELS, BIMETALS
INVESTIGATION OF LAYER ADHESION STRENGTH IN BIMETAL SHEETS DURING CYCLICAL LOADING 67-03 M17-65606
ROLLING OF STRUCTURAL ALUMINUM-STEEL BIMETALS 67-06 M12-71358
ADHESION STRENGTH OF LAYERS IN BIMETAL SHEETS UNDER INTERMITTENT STATIC LOADS 67-08 M17-74531

STAINLESS STEELS, BOLTS
FAILURE ANALYSIS OF HIGH STRENGTH STAINLESS STEELS IN SPACE LAUNCH VEHICLES 67-04 M17-66688

STAINLESS STEELS, BONDING
DIFFUSION-BONDING OF FORMABLE STRUCTURAL PANELS BY COMPOSITE ROLLING 67-02 M11-61841
STRESSED SKIN STRUCTURES IN SANDWICH CONSTRUCTION 67-04 M09-66142
EFFECT OF THICKNESS OF GLUE FILM ON THE LIFE OF GLUED METAL JOINTS IN WATER 67-05 M11-69043
EXPLOSION-BONDING PROCESS FOR METALS 67-05 M12-68479
MANUFACTURE OF VACUUM VESSELS FOR THE NINA SYNCHROTRON 67-05 M20-68503
FABRICATION METHODS FOR PBI ADHESIVE BERYLLIUM

SANDWICH STRUCTURES 67-10 M11-79436

STAINLESS STEELS, BRAZING
SELF-FLUXING SOLDER FOR BRAZING STAINLESS STEELS AND HEAT-RESISTANT ALLOYS 67-02 M11-60837
BRAZED GRAPHITE-METAL COMPOSITES FOR SPACE RADIATORS 67-04 M11-66386
SELF-FLUXING FILLERS FOR THE BRAZING OF STAINLESS STEELS AND HEAT RESISTING ALLOYS 67-04 M11-67994
EFFECT OF VIBRATION ON PROPERTIES AND STRUCTURE OF BRAZED SEAMS 67-05 M11-69410
BRAZE ALLOY HOLDS BONDING STRENGTH OVER WIDE TEMPERATURE RANGE 67-06 M11-70011
BRAZING--THE AIR FORCE SHOWS THE WAY 67-06 M11-71494
VACUUM BRAZING--WHEN AND HOW 67-07 M11-72798
EFFECTS OF VIBRATIONS ON THE PROPERTIES AND STRUCTURES OF BRAZED SEAMS 67-10 M11-78514
FLUXLESS BRAZING OF STAINLESS STEEL 67-11 M11-80904
PRODUCTION OF HONEYCOMB SANDWICH STRUCTURES OF HIGH-STRENGTH STEEL BY BRAZING --ONERA-A. M. D. PROCESS-- 67-11 M11-81055

STAINLESS STEELS, CASTING
EFFECT OF MOLD FILLING RATE FLUCTUATION ON SURFACE QUALITY OF INGOT 67-01 M04-57257
THE CONTINUOUS CASTING OF SMALL CROSS SECTIONS 67-02 M04-59133
INVESTIGATION OF EFFICIENT METHODS OF CASTING DIFFERENT GRADE STEELS 67-02 M04-59849
CASTING HIGH-ALLOY STEEL UNDER A LAYER OF LIQUID SYNTHETIC SLAG 67-02 M04-62141
EFFECT OF OXIDATION OF LIQUID STEEL ON ITS CASTING PROPERTIES 67-02 M06-59177
BURN-IN IN INVESTMENT CASTINGS 67-02 M06-61234
SINGULARITIES OF CASTING TITANIUM-ALLOYED STEELS 67-02 M06-61869
TEEMING HIGH-ALLOY STEEL UNDER A LAYER OF MOLTEN SYNTHETIC SLAG 67-04 M04-68183
THE DEVELOPMENT OF STEEL CASTING ALLOYS AS REFLECTED BY NEW STANDARDS 67-04 M06-66673
TEEMING STEELS ALLOYED WITH TITANIUM 67-04 M06-67688
MOLYBDENUM DIES FOR THE PRESSURE DIECASTING OF STEEL 67-04 M06-67950
BURN-ON IN INVESTMENT MOLDS 67-04 M06-68095
PRESSURE CASTING STEP BY STEP 67-05 M04-68687
THE CONTINUOUS CASTING OF SMALL SECTIONS 67-06 M04-71566
FORMATION OF RESIDUAL STRESSES IN CASTINGS 67-06 M06-70292
THE CONTINUOUS CASTING PLANT FOR ALLOY STEELS AT BAILDON, POLAND, WORKS 67-07 M04-73246
SURFACE DEFECTS OF A STAINLESS STEEL INGOT 67-07 M04-74145
SELECTING ALLOYS FOR INVESTMENT CAST PARTS 67-08 M06-74498
SELECTION FACTORS FOR STEEL INVESTMENT CASTINGS 67-08 M06-75491
THE BOOM IN FERROUS INVESTMENT CASTINGS 67-08 M06-75495
COLD WELDS AS THE PRINCIPAL CAUSE OF REJECTS IN THE CASTING OF STAINLESS STEELS AND THEIR ELIMINATION THROUGH A TECHNICALLY PLANNED CASTING PROGRAM 67-09 M06-77003
SUPER INVESTMENT CASTINGS FOR ROCKETS 67-09 M06-78172
EFFECT OF MOLTEN STEEL OXIDATION ON ITS CASTING PROPERTIES 67-10 M06-78886
PATHWAY TO PROFITABLE TOOLING THROUGH PRECISION CASTING 67-10 M06-79523
PRESSURE CASTING OF TUBE HOLLOWS 67-11 M06-80421
PRESSURE CASTING OF TUBE HOLLOWS 67-11 M06-80672
CENTRIFUGAL CASTING OF STEEL OKH23N28M3D3T PIPES 67-12 M06-81887
DARK SPOTS ON STAINLESS STEEL INVESTMENT CASTINGS 67-12 M06-82617
CASTING PROPERTIES OF STAINLESS LOW-MAGNETIC HIGH-STRENGTH STEEL 67-12 M06-83027
ZONAL SEGREGATION IN CENTRIGUGAL CASTING OF OKH10N20T2 STEEL 67-12 M06-83031
EFFECT OF MN, SI AND TI ON THE PROPERTIES OF KH8M4D4 STEEL 67-12 M06-83032
STAINLESS STEEL TUBE PRODUCTION DEVELOPMENT-- METHOD BASED ON PRESSURE CAST HOLLOWS 67-12 M06-83163

STAINLESS STEELS, CASTINGS
PROPERTIES AND APPLICATIONS OF CORROSION RESISTANT STAINLESS AND HIGH ALLOY STEEL CASTINGS 67-10 M01-79755

STAINLESS STEELS, CAVITATION
EFFECT OF STRAINING AND ANNEALING ON THE CAVITATION RESISTANCE OF CERTAIN METALS AND ALLOYS 67-08 M18-74338

STAINLESS STEELS, CERMETS
PILOT PLANT DEVELOPMENT OF AN ELECTROLYTIC DISSOLVER FOR STAINLESS STEEL ALLOY NUCLEAR FUELS 67-06 M16-71019

STAINLESS STEELS, CHEMICAL ANALYSIS
BEHAVIOR OF NITROGEN IN SLAGS AND IN THE METAL DURING MELTING OF ALLOY STEELS 67-02 M04-59878
SAMPLE PREPARATION AND REPRODUCIBILITY IN SPECTROGRAPHIC ANALYSIS OF HIGH-ALLOY STEELS 67-02 M19-59165
ELECTRON PROBE MICROANALYSIS 67-03 M13-65825
COMPLETE SPECTROCHEMICAL CONTROL IN A DIVERSIFIED FOUNDRY 67-03 M19-65009
ANALYSIS OF HIGH-ALLOY STEELS ON A VACUUM SPECTROMETER 67-04 M19-67086
OPERATING EXPERIENCE WITH EMISSION SPECTROANALYTICAL INVESTIGATIONS OF UNALLOYED AND ALLOYED STEELS WITH A VACUUM SPECTROMETER 67-06 M19-70047
QUANTOVAC ANALYSIS IN THE FOUNDRY 67-06 M19-72081
DETERMINATION OF THE SULFUR CONTENT OF IRON AND STEEL 67-07 M19-73239
ELECTRON METALLOGRAPHY OF PRECIPITATES IN IRRADIATED AND UNIRRADIATED STAINLESS STEEL 67-09 M19-76636
THE DETERMINATION OF THE B CONTENT OF LOW-B STEELS BY MEASURING THE DEPRESSION OF THE FLUX OF THERMAL NEUTRONS 67-12 M19-83009

STAINLESS STEELS, CHEMICAL ENGINEERING
STAINLESS AND SPECIAL ALLOY STEELS 67-05 M20-69547

STAINLESS STEELS, CLAD METALS
NONDESTRUCTIVE EXAMINATION OF RADIOACTIVE MATERIAL USING NEUTRON RADIOGRAPHY 67-03 M19-65015
PRODUCING BIMETALS BY VACUUM ROLLING 67-05 M12-68235

STAINLESS STEELS, CLADDING
STAINLESS STEEL SANDWICH PRODUCTION 67-01 M12-58031
BIMETAL TAPE WITH METALLOCERAMICC MAGNETIC LAYER ON A NONMAGNETIC BASE 67-01 M12-58137
ROLLING LARGE-DIMENSION SHEET SANDWICHES CLAD IN TOUGH-DEFORMING STEELS 67-01 M12-58182
ADHESIVE STRENGTH OF LAYERS OF ALUMINUM ALLOY-KH18N10T STEEL BIMETAL 67-01 M17-57281
WORKABILITY OF CARBON STEEL-NICKEL BIMETAL 67-01 M17-57603
INFLUENCE OF THE INTERMEDIATE NI FILM ON STRUCTURE AND PROPERTIES OF BIMETAL STEEL 67-04 M12-66373
FATIGUE STRENGTH OF EXPLOSION-CLAD STEEL BIMETALS 67-04 M12-67802
CLAD METAL WIRE OUTPERFORMS SOLID WIRE 67-05 M12-68425
FATIGUE STRENGTH OF TWO LAYER STEEL, CLAD BY EXPLOSION BONDING 67-06 M12-70302
STRIP CLADDING OF STEEL WITH STAINLESS AND NICKEL BASED ALLOYS. PT. 1. INTRODUCTION AND WELDING RESULTS 67-10 M11-78459
EXPLOSION FORCE FOR FORMING TUBULAR BIMETAL BILLETS FOR HOT DEFORMATION 67-10 M12-78390
EFFECT OF THE THICKNESS OF INTERMEDIATE NICKEL COATINGS ON THE STRUCTURE AND PROPERTIES OF TWO-LAYER STEEL PLATES 67-11 M12-80975
EXAMINATION OF AISI 316 STAINLESS STEEL CLADDINGS DEPOSITED BY MEANS OF SUBMERGED ARC STRIP WELDING 67-12 M12-81944

STAINLESS STEELS, CLEANING
METHOD FOR CLEANING STAINLESS STEEL 67-02 M12-60950
INVESTIGATION OF THE PICKLING OF KH18N10T STEEL SHEETS IN RELATION TO CONDITIONS OF QUENCH HEATING 67-05 M12-68333
MILD BATH FOR STEEL 67-05 M12-68604
INVESTIGATION OF PICKLING OF KH18N9T STAINLESS STEEL IN THE MIXTURE OF H2SO4, HCL AND HNO3 ACIDS 67-05 M12-69834
INVESTIGATING THE PICKLING OF KH18N10T STEEL PLATE IN RELATION TO CONDITIONS UNDER WHICH PLATES ARE HEATED FOR QUENCHING 67-07 M12-72861

EFFECT OF SALT ADDITIONS ON SULFURIC ACID PICKLING OF STAINLESS STEELS 67-10 M12-78436
CHEMICAL DERUSTING IN THE PRODUCTION LINE 67-12 M12-82131
INVESTIGATION OF THE PICKLING OF SCALE-COATED STEEL KH18N9T IN A MIXTURE OF SULFURIC, HYDROCHLORIC, AND NITRIC ACIDS 67-12 M12-82267
METHOD OF DESCALING AND PASSIVATING ACID-RESISTANT AND HIGH-TEMPERATURE CORROSION-RESISTANT STAINLESS STEEL SHEETS IN A PICKLING SOLUTION 67-12 M12-82906
EFFECT OF SALT ADDITIONS ON PICKLING OF STAINLESS STEELS IN SULPHURIC ACID 67-12 M12-83434

STAINLESS STEELS, COATING
COHERENT COATINGS OF REFRACTORY METALS 67-01 M12-57539
USE OF MULITLAYER COATINGS FOR CORROSION PROTECTION OF SPRINGS IN WATER AT HIGH 67-01 M18-58706
PRODUCTIVITY OF VIBRO-ARC BUILD-UP BY LARGE DIAMETER ELECTRODE WIRE 67-02 M11-60835
A NEW BLACK CHROMIUM PLATE 67-03 M12-65326
COATING OF BOLTS TO PREVENT SEIZURE 67-03 M18-65986
OUTPUT OF VIBRO-ARC HARDFACING USING LARGE DIAMETER ELECTRODE WIRE 67-04 M11-67992
CARBON TOOL STEEL AND CHROMIUM-NICKEL STRUCTURAL STEEL COATED WITH MOLYBDENUM BY DIFFUSION 67-04 M12-66023
THE ADHESION TEMPERATURE BETWEEN GLASS AND METALS 67-04 M12-67421
THE PRETREATMENT OF STEEL AND AL BY THE KANIGEN PROCESS 67-04 M12-68004
WIDER PROPERTIES WITH COMPOSITE COATINGS 67-05 M12-69569
MULTILAYER REFRACTORY NOZZLES PRODUCED BY PLASMA-SPRAY PROCESS 67-06 M12-70015
GALVANOTHERMAL METHOD FOR PRODUCTION OF FE-NI-CR COATINGS 67-07 M12-73657
PRECOATED STEELS 67-08 M12-75475
NEW CHROMIZING AND CHROMIUM-ALUMINIZING PROCESSES 67-08 M12-75609
FABRICATION OF PLATED STRUCTURAL MEMBERS--COMPARISON OF ROLL PLATING AND SURFACING 67-08 M12-75788
SATURATION WITH BERYLLIUM BY DIFFUSION 67-08 M12-76020
BLACK CHROMIUM PLATING AT COMMERCIAL PLATING 67-09 M12-77695
EFFECT OF LIQUID CALORIZING ON THE TENSILE PROPERTIES OF STEEL-ALUMINUM WELDED TUBE 67-11 M17-80591
THE DIFFUSIONAL BERYLLIZING OF CERTAIN TECHNICAL MATERIALS 67-12 M12-82482
OXIDATION RESISTANT METALLIC COATINGS 67-12 M12-82608

STAINLESS STEELS, COATINGS
AUTOMATIC DEPOSIT WELDING OF STAINLESS STEELS ONTO PEARLITIC STEELS USING A PLASMA JET 67-01 M12-57396
APPLICATIONS OF METALLIZING IN THE STEEL MILL 67-01 M18-57163
MEASURING TEMPERATURES IN HEAT TREATING 67-02 M19-60862
INVESTIGATION OF THE JET-STREAM WEAR IN BUILT-UP METAL 67-04 M17-66569
STAINLESS STEEL PAINTS 67-05 M12-68492
CLADDING DEVELOPMENT FOR FAST BREEDER REACTORS 67-07 M12-73465
THE FIGHT AGAINST WEAR. HARD-SURFACING ALLOYS IN THE AUTOMOBILE INDUSTRY 67-08 M12-76298
METAL CLAD EXTENDS COPPER CONDUCTOR RANGE TO 1300 F 67-10 M12-80093

STAINLESS STEELS, COMPOSITE MATERIALS
STAINLESS WIRE PLUS ALUMINUM MATRIX EQUALS STRONG, LIGHT COMPOSITE PLATE 67-06 M09-72251

STAINLESS STEELS, CONTAINERS
DESIGNING STAINLESS PROCESSING EQUIPMENT--WAYS TO BRIDGE THE EXPERIENCE GAP 67-11 M18-81198

STAINLESS STEELS, COOLING CURVES
INDIVIDUAL PROPERTIES OF THE MELTS OF CARBURIZING STEELS 67-02 M14-61972
INDIVIDUAL CHARACTERISTICS OF MELTS OF CARBURIZED STEELS 67-10 M14-78829

STAINLESS STEELS, CORROSION
RECOMMENDED DESIGN PRACTICES FOR STOPPING METAL CORROSION 67-01 M18-57232
CORROSION RESISTANCE OF STAINLESS STEEL WELDED JOINTS IN SOME AGGRESSIVE MEDIA 67-01 M18-57535
SINTERED FILTERS FOR FILTERING CORROSIVE LIQUIDS AND HOT GASES 67-01 M18-57601
EFFECT OF ALLOYING ADDITIONS OF SILVER AND PALLADIUM ON THE CORROSION AND ELECTROCHEMICAL BEHAVIOR OF STAINLESS STEELS 67-01 M18-57640
PROBLEM OF CORROSION RESISTANCE OF STAINLESS STEELS IN SOLUTIONS OF NITRIC ACID 67-01 M18-57642
THE EFFECT OF SOME COATINGS ON THE FATIGUE AND CORROSION FATIGUE STRENGTH OF KH17N2 STEEL 67-01 M18-57667
OXIDATION OF CHROMIUM-NICKEL STEEL IN SULFUR GAS AT HIGH TEMPERATURES 67-01 M18-58077
CORROSION RESISTANCE OF STAINLESS STEEL WELDED JOINTS WITH GAS-ELECTRIC CUTTING OF EDGES 67-01 M18-58278
CORROSION BEHAVIOR OF STEEL WELDMENTS 67-01 M18-58394
RESISTANCE TO PITTING OF TYPES 202 AND 321 STEELS TO SULFURIC ACID AND SODIUM CHLORIDE SOLUTIONS 67-01 M18-58482
INTERGRANULAR CORROSION OF CHROMIUM STEELS IN CONCENTRATED NITRIC ACID 67-01 M18-58705
STAINLESS STEEL TANKS FOR RADIOACTIVE WASTE STORAGE 67-01 M18-58763
CORROSION TESTING FOR 18 CR STAINLESS STEEL 67-02 M18-59162
CAUSES OF STRESS-CORROSION CRACKING 67-02 M18-59481
SOME CORROSION PROBLEMS ARISING IN HEAT EXCHANGERS IN THE CHEMICAL INDUSTRY 67-02 M18-59485
THE NON-SELECTIVE CORROSION OF ALLOY STEELS IN LIQUID LOW MELTING POINT METALS 67-02 M18-59894
EFFECT OF DEFORMATION ON INTERCRYSTALLINE CORROSION OF TYPE 18-8 STAINLESS STEEL 67-02 M18-60066
ON THE MECHANISM OF STRESS CORROSION 67-02 M18-60215
CHROMALUMINIZING 67-02 M18-60861
CORROSION RESISTANCE OF SOME METALS IN SULFURIC-ALKALINE BYPRODUCTS OF OIL REFINING 67-02 M18-60996
CORROSION RESISTANCE OF WELDED JOINTS IN STAINLESS STEELS 67-02 M18-61154
PROGRESS IN THE BATTLE WITH CORROSION OF AUTOMOBILES 67-03 M18-65975
THE CHARACTERISTICS OF TRANSGRANULAR STRESS-CORROSION CRACKING 67-03 M18-65997
ACTION OF MOLTEN ZN ON NI STEELS 67-04 M14-66340
PRODUCTS, DEVELOPMENTS, APPLICATIONS FOR CORROSION ENGINEERING--FLAME-SPRAYED ALUMINUM COATINGS FOR MARINE ENVIRONMENTS 67-04 M18-66319
INCREASING THE LIFE OF COMPRESSOR VALVE PLATES 67-04 M18-66346
CORROSION RESISTANCE OF STRUCTURAL MATERIALS IN SODIUM CHLORITE SOLUTIONS 67-04 M18-66591
METAL CORROSION AND POSSIBILITIES OF CORROSION PROTECTION 67-04 M18-66884
CORROSION RESISTANCE OF ALUMINUM AND STAINLESS STEEL DURING ANODIC POLARIZATION 67-04 M18-67291
CORROSION RESISTANCE OF GAS ARC CUT WELDED JOINTS IN STAINLESS STEELS 67-04 M18-67359
RESISTANCE OF ALLOYED STEELS TO CORROSION AND EROSION 67-05 M18-68388
WATER DESALINATION POSES TOUGH MATERIALS PROBLEMS 67-05 M18-68427
BASIC PRINCIPLES FOR STRUCTURING CORROSION RESISTANT ALLOYS 67-05 M18-69821
STRESS CORROSION CRACKING OF SOME HIGH-STRENGTH STEELS, 67-05 M18-69823
IMPROVING INTERGRANULAR CORROSION RESISTANCE OF SHEET AND STRIP OF KH18N9T --KH18N10T--STAINLESS STEEL 67-05 M18-69827
HYDROGENATION OF STEEL IN SULFIDE AND ALKALINE ELECTROLYTES 67-05 M18-69828
EFFECTS OF THE PH OF WATER ON THE CORROSION OF PEARLITIC STEEL 67-06 M18-70154
CORROSION OF SOME METALS AND ALLOYS IN ALUMINUM ALLOY 67-06 M18-70177
CORROSION-RESISTANT ALLOYS IN CHLORIDE SOLUTIONS--MATERIALS FOR SURGICAL IMPLANTS 67-06 M18-70694
THE CORROSION OF METALS. PHYSICAL-CHEMICAL PRINCIPLES AND ACTUAL PROBLEMS 67-06 M18-70697
CONSTRUCTION MATERIALS FOR PHOS-ACID MANUFACTURE 67-06 M20-71496

ELECTROCHEMICAL ASPECTS OF PITTING CORROSION
67-07 M18-72762
CORROSION RESISTANT MATERIALS IN ACYLATING HYDROLYZING MEDIA IN THE PRODUCTION OF CELLULOSE ACETOBUTYRATE 67-07 M18-72872
THE FATIGUE STRESS CORROSION OF METALLIC MATERIALS. PT. 9. PASSIVATION AND ACTIVATION PROCESSES IN THE FATIGUE STRESS CORROSION OF STAINLESS STEELS
67-07 M18-73177
CORROSION CRACKING OF THE COOLER OF KH18N10T STAINLESS STEEL USED IN MANUFACTURING SULFURIC ACID 67-07 M18-73198
THE ELECTROCHEMICAL PARAMETERS OF STAINLESS STEEL PASSIVATION BY SOME REVERSIBLE REDOX-SYSTEMS
67-07 M18-73700
INTERGRANULAR CORROSION OF 1KH 21N5T STAINLESS STEEL SHEET 67-07 M18-74193
CORROSION CONTROL AT WELDED JOINTS IN CONSTRUCTIONAL STEELS 67-08 M18-74703
RECOGNITION OF CORROSION HAZARDS TO METALS IN BUILDING 67-08 M18-74705
RESISTANCE OF SOME MATERIALS IN MOLTEN TIN
67-08 M18-75147
COMPARING RESULTS OF DETERMINING THE DEPTH OF INTERCRYSTALLINE CORROSION BY VARIOUS METHODS
67-08 M18-75351
CONTROLLING AUTOMOBILE EXHAUST. CORROSION EFFECT ON SMOG CONTROL DEVICES 67-08 M18-75744
BEHAVIOR OF STAINLESS STEELS IN PHOSPHORIC SOLUTIONS 67-08 M18-76293
CORROSION RESISTANCE OF TITANIUM IN THE CHEMICAL INDUSTRY 67-08 M18-76295
THE USE OF POLARIZATION CURVES IN INDUSTRIAL STUDIES OF WATER CORROSION 67-09 M18-76490
PASSIVATION AND CORROSION OF STAINLESS STEELS
67-09 M18-76491
CORROSION BEHAVIOR OF CR-NI-MO-CU STEELS IN SULFURIC AND PHOSPHORIC ACIDS
67-09 M18-76516
THE MECHANICAL AND CORROSION PROPERTIES OF OKH21N6B TWO-PHASE STAINLESS STEEL 67-09 M18-76973
THE INFLUENCE OF DELTA FERRITE ON THE CORROSION BEHAVIOR OF WELD DEPOSITS MADE WITH AUSTENITIC FILLER MATERIALS 67-09 M18-77340
THE INFLUENCE OF SURFACE TREATMENTS ON THE CORROSION RESISTANCE OF CHROMIUM-CONTAINING STEELS 67-09 M18-77702
INVESTIGATION OF CORROSION RESISTANCE OF METALS UNDER CONDITIONS OF SYNTHESIS OF PHENOL FROM TOLUOL 67-09 M18-77955
INFLUENCE OF SURFACE TREATMENT ON THE CORROSION OF STAINLESS STEELS AND ZIRCONIUM ALLOYS IN HIGH-TEMPERATURE WATER AND STEAM 67-09 M18-78021
INVESTIGATION OF CORROSION PHENOMENA IN STAINLESS STEELS BY THE OCTEL METHOD 67-09 M18-78029
CORROSION RESISTANCE AT HIGH TEMPERATURES. PT. 17
67-09 M18-78201
CORROSION RESISTANCE OF STAINLESS STEELS IN AQUEOUS SOLUTIONS. PT. 1 67-09 M18-78202
RESEARCH INTO THE PROPERTIES OF OKH18G8N2T STEEL
67-10 M01-78923
PROPERTIES AND APPLICATIONS OF MODIFIED 12 PER CENT CR STEELS 67-10 M01-79487
CORROSION RESISTANCE OF STAINLESS STEELS IN AQUEOUS SOLUTIONS. PT. 2 67-10 M18-78399
RESEARCH ON THE CORROSION OF SOME METALS AND METAL OXIDES IN SODIUM HYDROXIDE MELTS
67-10 M18-78465
CORROSION OF METALS BY FLOWING LIQUID FLUORINE COMPOUNDS 67-10 M18-78495
INFLUENCE OF FLUORINE IONS ON CORROSION OF OKH18N10T STEEL IN WATER AND HIGH-PRESSURE STEAM
67-10 M18-78538
ELECTROCHEMICAL AND CHEMICAL CORROSION TESTING OF 13 PER CENT CR CAST STEEL IN CHLORIDE CONTAINING MEDIA 67-10 M18-78686
EXPERIENCE WITH GAS TURBINES IN INDUSTRIAL INSTALLATIONS 67-10 M18-78769
EFFECTS OF TITANIUM ON THE PHASE COMPOSITION OF A STAINLESS FERRITIC-AUSTENITIC STEEL
67-10 M18-78922
CORROSION BEHAVIOUR OF STAINLESS HEAT TREATABLE STEELS WITH APPROXIMATELY 13 PER CENT CR
67-10 M18-79088
EFFECT OF SILICON ON THE SCALE RESISTANCE AND STRUCTURAL STATE OF CHROMIUM-MANGANESE STEELS
67-10 M18-79327
CONTAMINATION AND CORROSION IN BLAST FURNACE TURBINE PLANTS 67-10 M18-79393
THE BEHAVIOUR OF STAINLESS STEEL IN SEA-WATER
67-10 M18-79427
STUDY OF CORROSION OF FE-NI-CR ALLOYS IN A TUBULAR CELL 67-10 M18-79705
APPLICATION OF STEELS FOR DESALINATION PLANTS
67-11 M18-80292
ELECTROCHEMICAL CORROSION EXPERIMENTS AT TEMPERATURES ABOVE 100 C 67-11 M18-80707
THE EFFECT OF ORGANIC ACIDS ON THE ANODIC DISSOLUTION OF NICKEL ALLOYS AND STAINLESS STEELS
67-11 M18-80709
CORROSION OF METALS IN THE MOLTEN LIOH-LIF-H2O SYSTEM 67-11 M18-80827
EFFECT OF KATAPIN K ON THE CORROSION BEHAVIOR OF CERTAIN METALS AND ALLOYS IN SULFURIC ACID
67-11 M18-81282
EFFECT OF STEAM TEMPERATURE ON THE CORROSION OF METALS UNDER HEAT-TRANSFER CONDITIONS
67-11 M18-81551
CORROSION UNDER HEAT TRANSFER--SERVICE FAILURES AND LABORATORY TESTING 67-11 M18-81552
BASIC PRINCIPLES IN THE CREATION OF CORROSION-RESISTANT METAL ALLOYS 67-12 M18-82255
CORROSION CRACKING OF SOME HIGH-STRENGTH STEELS
67-12 M18-82257
RAISING THE RESISTANCE OF KH18N9T --KH18N10T-- STEEL SHEET AND STRIP TO INTERCRYSTALLITE CORROSION 67-12 M18-82261
HYDROGEN ABSORPTION OF STEEL IN ALKALINE SULFIDE ELECTROLYTES 67-12 M18-82262
EFFECT OF WELDING STRESSES ON THE CORROSION OF 1KH18N9T STEEL WELD JOINTS 67-12 M18-82476
CORROSION RESISTANCE AT HIGH TEMPERATURES
67-12 M18-82516
EFFECT OF SILICON ON THE STACKING FAULT ENERGY OF 18 PER CENT CR-10 PER CENT NI STAINLESS STEEL
67-12 M18-82590
EFFECT OF ELECTRICAL CURRENTS ON BALL BEARING DAMAGE IN VACUUM AND IN AIR 67-12 M18-82990
CORROSION RESISTANCE OF CARBON STEEL WELDS AND STAINLESS STEEL WELDS IN SOME ARGRESSIVE MEDIA
67-12 M18-83193
HEAT RESISTANT STEELS --WORKING-- IN DIRECT CONTACT WITH MOLTEN GLASS. PT. 2 67-12 M18-83461
STAINLESS STEELS IN THE CELLULOSE INDUSTRY
67-12 M20-83297

STAINLESS STEELS, CORROSION TESTS
ANODIC BEHAVIOR OF CR-NI STEELS STABILIZED WITH TITANIUM 67-04 M18-67278

STAINLESS STEELS, CRYSTAL LATTICES
THE DETERMINATION OF THE NATURE OF STACKING FAULTS IN FCC METALS FROM THE BRIGHT FIELD IMAGE
67-03 M13-65374
EFFECT OF HYDROGEN ON THE TEMPERATURE DEPENDENCE OF THE FLOW STRESS OF NICKEL AND STAINLESS AUSTENITIC STEEL 67-04 M17-67649

STAINLESS STEELS, CRYSTALLIZATION
RECRYSTALLIZATION DIAGRAM FOR LOW DUCTILITY CR-NI HEAT-RESISTANT STEEL 67-02 M14-61983

STAINLESS STEELS, CUTTING
ACTION OF GASEOUS ENVIRONMENT IN METAL CUTTING--SURFACE ROUGHNESS AND TOOL FORCES WHEN MACHINING WITH OXYGEN JET 67-01 M08-57590
GAS-ELECTRIC CUTTING IN CONTINUOUS CASTING OF STEEL
67-01 M11-57255
OXYGEN-FLUX CUTTING OF A FOUR-LAYER BIMETAL PIECE
67-03 M08-65056
ARC POWER SUPPLY FOR PLASMA-ARC CUTTING OF METALS
67-04 M11-67018
OXY-FLUX CUTTING OF FOUR LAYER CLAD METAL SANDWICH
67-07 M08-73977
GAS-ELECTRIC CUTTING OF STAINLESS STEEL IN AMMONIUM
67-08 M08-74378
PLASMA ARC CUTTING 67-09 M07-77914
AIR PLASMA ARC CUTTING OF METALS WITH A PLASMATRON WITH A ZIRCONIUM CATHODE
67-09 M11-78130
HIGH QUALITY PLASMA ARC CUTTING AND PIERCING
67-11 M08-80408

STAINLESS STEELS, DECARBURIZING
A MATHEMATICAL EXPRESSION OF THE KINETIC MECHANISM OF JOINT OXIDATION OF CARBON AND CHROMIUM WHEN BLOWING A HIGH-CHROMIUM POOL WITH OXYGEN
67-01 M04-57179

STAINLESS STEELS, DEGASSING
VACUUM DEGASSING OF STAINLESS AND ALLOY STEELS
67-03 M06-65924
DEOXIDATION AND REFINING OF STEEL IN ARC FURNACES OF VARIOUS CAPACITY 67-06 M04-71252

STAINLESS STEELS

VACUUM TREATMENT AND INERT GAS TREATMENT OF ELECTROMELTED STEELS IN A LADLE 67-06 M04-71253

STAINLESS STEELS, DEOXIDIZING
THE PRODUCTION OF FERROSILICONCALCIUM AND ITS USE FOR KILLING STEEL 67-07 M04-73782
MELTING FERROSILICOCALCIUM AND USING IT FOR DEOXIDIZING STEEL 67-09 M04-76545

STAINLESS STEELS, DIES
SOLIDIFICATION OF A CASTING IN PRESSURE DIE CASTING 67-04 M06-66420

STAINLESS STEELS, DIFFUSION
STUDY OF DIFFUSION ON THE PHASE BOUNDARIES 67-03 M14-65786
THE CONTROLLING STAGE OF CARBON TRANSPORT IN THE CARBON STEEL-SODIUM MELT-CHROMIUM-NICKEL STEEL SYSTEM 67-11 M14-80581
INFLUENCE OF TEMPERATURE AND PRESSURE ON HYDROGEN PERMEABILITY OF KH18N10T STAINLESS STEEL 67-12 M14-81846

STAINLESS STEELS, ELECTRICAL PROPERTIES
POTENTIOSTATIC STUDY ON THE INTERGRANULAR CORROSION OF AN AUSTENITIC CHROMIUM-NICKEL STAINLESS STEEL 67-04 M18-67429

STAINLESS STEELS, EXTRUSION
STAMPING FORGINGS OF AUTOMOBILE VALVES OF EI992 STEEL 67-02 M08-59403
HINTS FOR MODERN COLD HEADING 67-03 M08-65865
DETERMINING THE HIGHEST DEGREE OF DEFORMATION DURING REDUCTION OF HOLLOW CYLINDRICAL BILLETS IN A TAPERED DIE 67-04 M08-67040
EFFECT OF DIE GEOMETRY ON METAL FLOW IN THE HOT EXTRUSION OF METALS 67-07 M07-72553

STAINLESS STEELS, FABRICATION
EVALUATION OF STAINLESS STEEL CASTING ALLOYS FOR CRYOGENIC SERVICE IN THE 80-INCH LIQUID-HYDROGEN BUBBLE CHAMBER 67-01 M11-57622

STAINLESS STEELS, FATIGUE /MATERIALS/
INCREASE IN THE PERFORMANCE OF STEELS IN MELTS OF FUSIBLE METALS USING METHODS OF STRENGTHENING--TECHNOLOGY 67-01 M17-57670

STAINLESS STEELS, FIBER METALLURGY
METALLIC FILAMENTS AND THEIR COMPOSITES 67-07 M09-73341

STAINLESS STEELS, FILTERS /FLUID/
SELECTION OF POWDERS FOR OBTAINING PRESET PROPERTIES OF POROUS SHEET MATERIALS AND PRESSINGS 67-04 M09-66253

STAINLESS STEELS, FORGING
CONTACT STRESSES DURING HOT UPSETTING OF HEAT-PROOF STEELS AND ALLOYS 67-01 M17-57183
FORGING METALLURGY--STEEL. PT. 2. WHICH ALLOY 67-02 M07-61093
A METHOD OF CLOSING UP DEFECTS IN LARGE INGOTS 67-03 M07-65964
FABRICATION OF FORGED PRESSURE VESSELS 67-03 M08-65686
FITTINGS FORGED ONTO TUBE ENDS 67-04 M07-67769
APPLICATION OF FORGEABILITY TESTS TO LAMINABILITY 67-11 M07-80391
CEMERON COMMISSIONS SCOTTISH FORGING PLANT 67-11 M07-80673
STUDY OF THE MULTIOPERATIONAL CLOSED IMPRESSION DIE FORGING PROCESS 67-12 M07-82063
FORGING INDUSTRY STANDARDS. A BUYER SERVICE 67-12 M07-82701

STAINLESS STEELS, FORMING
ELECTRICAL METALFORMING. PT. 4 67-04 M07-67226
JET-AGE JOBS FOR FORM ROLLING 67-05 M08-68307
A SURVEY OF H. E. R. FORMING 67-05 M08-69736
FACILITIES AND TOOLING FOR EXPLOSIVE FORMING AND SOME ECONOMIC ASPECTS OF H. E. R. FORMING 67-05 M08-69737
SOME ASPECTS OF HIGH ENERGY RATE FORMING RESEARCH AT R. A. R. D. E. 67-05 M08-69750
MATERIAL ASPECTS OF HIGH ENERGY RATE DEFORMATION AT AMBIENT AND ELEVATED TEMPERATURES 67-05 M17-69743
KINEMATIC AND FORCE PARAMETERS OF HELICAL CROSS ROLLING UNDER VARIOUS CONDITIONS OF DEFORMATION 67-08 M07-75015
THE PHOTOFABRICATION OF THIN METAL PARTS 67-09 M08-76494
HYDROFORMING HIGH TEMPERATURE ALLOYS 67-10 M08-79532
STUDY OF CAUSES OF BRITTLENESS AND THE SELECTION OF PARAMETERS FOR REJECTING KH18MTF STEEL 67-11 M08-80865

STAINLESS STEELS, HARD SURFACING
DETERMINING THE AMOUNT OF AUSTENITE IN HARD MULTIPHASE BUILDUPS 67-02 M11-62164
STRUCTURE OF TRANSITION ZONES IN ELECTROSLAG BUILDUP WITH A COMPOUND ELECTRODE 67-02 M11-62170
FEATURES OF THE TRANSITION ZONES DURING ELECTROSLAG METAL DEPOSITION USING COMPOSITE ELECTRODES 67-04 M12-67177
MECHANIZED BUILDUP OF SEALING SURFACES 67-06 M11-70400

STAINLESS STEELS, HARDENING
EXPLOSIVE SHOCK HARDENING.. NEW TOOL SHOWS PROMISE 67-02 M17-60246
INFLUENCE OF THERMAL HARDENING ON STRUCTURE AND PROPERTIES OF HEAT RESISTANT ALLOYS 67-06 M17-72347

STAINLESS STEELS, HEAT TREATMENT
GAS BORATING OF HIGH-ALLOY STEELS 67-01 M10-58082
HEAT TREATMENT OF HARDENING STAINLESS STEELS 67-02 M10-58986
EFFECT OF THE HOLDING TIME DURING TEMPERING OF 18-8 STAINLESS STEEL ON THE DEVELOPMENT OF THE CHROMIUM-DEPLETED ZONE 67-02 M10-59577
DEFORMATION OF STEEL DURING QUENCHING 67-02 M10-60846
UTILIZATION OF THE KINETIC PLASTICITY OF STAINLESS STEEL FOR DECREASE IN WARPAGE DURING HEAT TREATMENT 67-02 M10-60848
OBTAINING CONTROLLED ATMOSPHERES IN FLUID BED HEATING FURNACES 67-02 M10-60854
INFLUENCE OF HEATING RATE DURING TEMPERING OF QUENCHED STEEL AND INFLUENCE OF END-OF-QUENCH TEMPERATURE 67-02 M14-59418
VACUUM HEAT TREATING--A BOON FOR THE COMMON METALS 67-03 M10-65478
THERMOMECHANICAL PROCESSING OF TYPE EI612 HEAT RESISTANT STEEL 67-03 M17-65972
KAYSER ELLISON INAUGURATES BUTANE-FIRED HEAT TREATMENT PLANT 67-04 M10-66407
VACUUM HEAT TREATING FINDS A SPOT 67-04 M10-66698
OPTIMUM HEAT TREATMENT CONDITIONS FOR 1KH18N12M2TL STEEL 67-04 M10-67981
IMPROVEMENT OF THE WEAR RESISTANCE OF SPHEROIDAL GRAPHITE CAST IRON BY IONITRIDING 67-04 M10-68128
FURNACE ELIMINATES FINISHING 67-05 M10-68420
TEMPERATURE CONTROL OF HEAT TREATMENT FURNACES 67-05 M10-69483
NEW VACUUM FURNACE IMPROVES METAL PROPERTIES AND ELIMINATES FINISHING OPERATIONS 67-05 M10-69548
STRENGTHENING MECHANISMS IN STEELS 67-05 M14-68472
OPTIMUM CONDITIONS FOR HEATING INGOTS OF STAINLESS STEEL WITH 13 PER CENT CHROMIUM 67-06 M10-70101
STUDY OF THE FEASIBILITY OF REDUCING RESIDUAL STRESSES IN CASTINGS 67-06 M10-70297
TORRINGTONS HEAT TREATMENT PLANT AT DARLINGTON. EFCO LAYOUT AND EQUIPMENT 67-06 M10-70881
CAUSES FOR THE FORMATION OF CRUST ON THE ROLLERS OF TOWER-TYPE FURNACES DURING HEAT TREATMENT OF STEEL STRIP 67-06 M10-71263
NEW HEAT TREATMENT DEPARTMENT AND WAREHOUSE FOR KAYSER ELLISON & CO. LTD 67-06 M10-71298
DROP FORGERS INSTALL NEW HEAT-TREATMENT PLANT 67-06 M10-71824
HEAT TREATMENT OF CERTAIN SPECIAL STEELS 67-06 M10-71904
HEAT TREATMENT OF THE DIAMANT ROCKET AT NORD-AVIATION 67-06 M10-71905
HEAT TREATMENT AND DESCALING OF WIRE ROD IN VACUO 67-07 M10-72715
ANNEALING TRIALS ON STEEL WIRE IN VARIOUS FURNACE ATMOSPHERES 67-07 M10-72716
THE PROBLEM OF CASE HARDENABILITY 67-07 M10-73184
SCALE-FREE HEATING IN A PROTECTIVE MEDIUM OF GLASS 67-07 M10-73619
USE OF GLOW DISCHARGE FOR CASE HARDENING 67-07 M10-74177
INFLUENCE OF ALLOYING ELEMENTS ON STRUCTURE OF NITRIDED LAYER OF STAINLESS STEEL AND THE MECHANISM OF ITS STRENGTHENING 67-07 M10-74180
HEAT TREATMENT OF ROLLING BEARINGS--THE TORRINGTON PLANT AT DARLINGTON 67-08 M10-74739

A HIGH-TEMPERATURE CORROSION-RESISTANT CHROMIUM-NICKEL STEEL 67-08 M10-74874
NITRIDING OF STEEL IN A MIXTURE OF NITROGEN AND AMMONIA 67-08 M10-74974
QUENCHING OF SMALL FORGINGS OF STRUCTURAL STEELS FROM THE FORGING TEMPERATURE 67-08 M10-74979
MULTIPLE NITRIDING OF 1KH13 STEEL 67-08 M10-76045
DEFORMATION OF STEEL DURING QUENCHING 67-08 M10-76104
UTILIZATION OF THE KINETIC DUCTILITY OF STAINLESS STEEL TO DECREASE THE WARPING OF MACHINE PARTS DURING HEAT TREATMENT 67-08 M10-76106
OBTAINING A CONTROLLED ATMOSPHERE IN A FURNACE WITH A BOILING LAYER 67-08 M10-76112
EFFECT OF THERMAL HARDENING CONDITIONS ON THE HEAT RESISTANT PROPERTIES OF KH18N10T STEEL 67-08 M17-74588
DECARBURIZING AND SCALING OF TOOL STEEL BILLETS WHEN HEATED IN INDUCTION FURNACES 67-09 M10-76412
A METHOD OF HEAT TREATING STAINLESS STEEL TUBES 67-10 M10-78360
SOME POSSIBLE WAYS OF IMPROVING THE QUALITY, RELIABILITY AND LIFE OF MACHINE COMPONENTS BY THEIR FLUIDIZED BED HEAT TREATMENT 67-10 M10-78369
DEVELOPMENT OF HEAT TREATMENT PROCESSES IN MACHINERY CONSTRUCTION 67-10 M10-79214
ACID AND HEAT RESISTANT STAINLESS STEELS--MACHINING AND HEAT TREATMENT 67-11 M01-80390
DISTORTION OF THIN-WALLED PIECES DURING RELAXATION OF RESIDUAL STRESSES 67-11 M10-80960
VIBRATORY STRESS RELIEVING 67-11 M10-81498
SURFACE ACTIVATION IN THE HEAT TREATMENT OF METALS 67-12 M10-81938
ETCHING AND HARDENING OF PRINT BARRELS 67-12 M10-82397

STAINLESS STEELS, HEATING
IMPROVING THE METHOD FOR HEATING INGOTS AND BILLETS OF 1KH16N4B STEEL 67-02 M10-59409
EFFECT OF THERMOPHYSICAL PROPERTIES OF STEEL ON HEATING TECHNOLOGY 67-06 M10-70299

STAINLESS STEELS, HOT WORKING
STUDY OF PROCESS OF MANUFACTURE OF 13 PER CENT CHROMIUM STAINLESS STEEL TUBE. PT. 1. HOT WORKABILITY 67-06 M07-72393

STAINLESS STEELS, INGOTS
LAMINAR CRYSTALLIZATION OF ELECTROSLAG MELTED INGOTS 67-06 M13-72305
THE LAYER BY LAYER SOLIDIFICATION OF ELECTROSLAG REMELTED INGOTS 67-11 M13-81577

STAINLESS STEELS, IRRADIATION
THE IDENTIFICATION OF SMALL QUANTITIES OF MATERIAL BY EXO ELECTRONS 67-06 M19-72143
THROUGH-THICKNESS NOTCH DUCTILITY AND TENSION PROPERTIES AS A FUNCTION OF NEUTRON EXPOSURE TO A SIMULATED PRESSURE VESSEL WALL OF A 320-B STEEL 67-12 M16-83253

STAINLESS STEELS, JOINING
STRUCTURE OF THE TRANSITION ZONE IN BIMETAL SHEETS OF KH18N10T STAINLESS STEEL - AMG6 ALUMINUM ALLOY 67-09 M12-77411

STAINLESS STEELS, MACHINABILITY
MACHINABILITY OF STEEL WITH ADDITIONS OF SELENIUM AND LEAD 67-02 M08-61300

STAINLESS STEELS, MACHINING
USE MILL KNOW-HOW IN MACHINING STAINLESS 67-01 M08-57951
THE PRODUCTION APPROACH TO EDM 67-01 M08-58525
WHERE OFFHAND DOESNT MEAN CARELESS 67-02 M08-61133
PUTTING ACCURACY INTO EDM 67-02 M08-61813
THE ROLE OF CHEMICAL REACTIONS IN THE PREPARATION OF METAL SURFACES BY ABRASION 67-03 M08-65596
316SM 67-03 M08-65863
HIGH TEMPERATURE METALS 67-03 M08-65864
EFFECT OF COOLING LIQUID ON THE FRICTION PROCESS AND TOOL WEAR 67-03 M17-65207
CONDITIONS AND METHODS FOR GRINDING CARBURIZED AND QUENCHED GEARS 67-04 M08-66348
EDM ELECTRODE MATERIALS AND ELECTRODE MATERIAL EVALUATION 67-04 M08-66354
HIGH POSITIVE RAKE CUTTERS--BIDDING TO SOLVE YOUR PRODUCTIVITY PROBLEM 67-04 M08-67633
THE MACHINE TOOL, AND SPEEDS AND FEEDS 67-05 M08-68508
UNIT PRESSURE--KEY TO SUCCESS IN STAINLESS 67-05 M08-69021
THREAD ROLLING--FEEDS, REVS AND BLANK DESIGN 67-05 M08-69022
RECOMMENDATIONS FOR DRILLING TOUGH MATERIALS 67-05 M08-69798
FREE-MACHINING STAINLESS STEELS UP SCREW MACHINE PRODUCTIVITY 67-06 M08-70237
HIGH PRECISION ABRASIVE MACHINING 67-06 M08-70555
JET WHEEL-CLEANING FACILITATES GRINDING OF CERTAIN ALLOY MATERIALS 67-06 M08-70864
HIGH-SPEED MACHINING AND COLD HEADING OF STAINLESS STEEL 67-07 M08-74151
WEAR AND LIFE OF TOOL FOR ROLLING INTERNAL THREADS 67-07 M08-74291
MACHINING TOOLS FOR HIGHLY HEAT RESISTANT MATERIALS IN AIRCRAFT POWER PLANT CONSTRUCTION 67-08 M08-74756
TEMPERATURE KEY TO MACHINING 67-08 M08-75530
PERFORMANCE TEST FOR SURFACE GRINDING WHEELS. PT. 3. GRINDING OF STAINLESS STEELS 67-08 M08-75591
DRILLING CAST HEAT RESISTANT STEELS WITH HIGH-SPEED COBALT AND MOLYBDENUM STEEL DRILLS 67-09 M08-76444
MACHINABILITY OF NEW LOW-NICKEL STAINLESS STEELS 67-09 M08-77960
HIGH-PRECISION ABRASIVE MACHINING 67-10 M08-78800
THE APPLICABILITY OF THE BINOMIAL LAW TO THE PROCESS OF FRICTION IN THE CUTTING OF METALS 67-10 M08-79108
THE APPLICATION OF ELECTROEROSION METHODS IN THE PRODUCTION OF STAMPING DIES 67-10 M08-79502
APPLICATION OF CUTTING FLUIDS IN DRILLING 67-10 M08-79505
PRODUCTION BROACHING OF EXTERNAL SURFACES 67-10 M08-79513
SURFACE INTEGRITY IN MACHINING AND GRINDING 67-10 M08-79515
GRADES WITH IMPROVED MACHINABILITY 67-10 M08-79762
THE ELYSIR METHOD--ELECTROCHEMICAL MACHINING 67-10 M08-79959
THE EFFECT OF THE TITANIUM CARBIDE CONTENT OF CEMENTED WC-TIC CUTTING TOOLS IN THE MACHINING OF STEELS AND CAST IRONS 67-12 M08-81854
GAS ELECTRIC CUTTING OF STAINLESS STEEL AND ALUMINIUM IN AMMONIA 67-12 M08-82251
BRITISH LASER INVENTION WILL REVOLUTIONIZE METAL CUTTING 67-12 M08-82470
CUTTING TOOL AND CUTTING FLUID EVALUATION. ECONOMIC CONSIDERATIONS FOR AEROSPACE MANUFACTURING 67-12 M08-82888
A SIZE OF CUT CONSTANT FOR MACHINABILITY EQUATIONS 67-12 M08-82950
CUTTING METALS WITH COMPRESSED AIR ARC AND ZIRCONIUM CATHODE 67-12 M08-83179
PLASMA-ARC CUTTING OF METALS USING MIXED GAS 67-12 M08-83180
AN INSTALLATION FOR PLASMA CUTTING HEAVY GAGE ALLOYED STEEL 67-12 M11-83181

STAINLESS STEELS, MAGNETIC PROPERTIES
EFFECT OF MANGANESE ON THE STRUCTURE AND PROPERTIES OF NONMAGNETIC STAINLESS STEELS 67-04 M15-67974

STAINLESS STEELS, MECHANICAL PROPERTIES
THE BUCKLING BEHAVIOR OF UNIFORMLY HEATED THIN CIRCULAR CYLINDRICAL SHELLS 67-01 M17-57542
CRYOGENIC TENSILE PROPERTIES OF SELECTED AEROSPACE MATERIALS 67-01 M17-57621
SHEAR STRENGTH OF SEVERAL ALLOYS AT LIQUID-HYDROGEN TEMPERATURES 67-01 M17-57625
A NEW LARGE IMPACT TORSION TESTING MACHINE 67-01 M17-58389
HIGH STRENGTH STRUCTURAL STEELS. PT. 4 67-01 M17-58530
HIGH-STRENGTH WELDABLE 13 PER CENT CHROMIUM CASTING STEEL 67-01 M17-58619
STAINLESS STEEL FOURDRINIER WIRE 67-01 M20-58765
WORKABILITY OF TI-STABILIZED STAINLESS CHROMIUM NICKEL STEELS 67-02 M07-58992
CRITERIA FOR ENDURANCE LIMITS OF STEEL 67-02 M17-58815
ON THE CONNECTION BETWEEN TENSILE AND YIELD LIMITS OF STEEL DURING TENSION 67-02 M17-58839
WHAT COLUMBIUM DOES TO TYPE 410 STAINLESS STEEL 67-02 M17-59465

ROLE OF OXYGEN IN THE ADSORPTIVE DECREASE IN STRENGTH OF STEEL SPECIMENS IN CONTACT WITH A MELT 67-02 M17-59657
SHORT-TIME CREEP AND RELAXATION OF HEAT RESISTANT MATERIALS 67-02 M17-59688
EFFECT OF VARIOUS FACTORS ON THE STRESS CONCENTRATION SENSITIVITY OF HEAT RESISTANT MATERIALS AT HIGH TEMPERATURES 67-02 M17-59690
IMPACT FATIGUE STRENGTH OF HIGH-STRENGTH STAINLESS STEELS IN A WATER JET 67-02 M17-59952
AN IRON BASE ALLOY 67-02 M17-59954
CERTAIN PHYSICOMECHANICAL PROPERTIES OF AUSTENITIC-MARTENSITIC STEELS 67-02 M17-60068
INFLUENCE OF ANNEALING ON CREEP STRENGTH OF KH18N10T STEEL WELDS 67-02 M17-60133
A METHOD OF STUDYING DAMAGE IN THERMAL FATIGUE 67-02 M17-60670
FATIGUE CRACK PROPAGATION IN METALS 67-02 M17-60700
INFLUENCE OF COLD TREATMENT ON STRUCTURE AND PROPERTIES OF VNS5 STAINLESS STEEL WELDS 67-02 M17-61242
A NEW STEEL FOR BLEEDER VALVES OF INTERNAL COMBUSTION ENGINES 67-02 M17-61877
STAINLESS HEAT RESISTANT 15KH16N2M STEEL 67-02 M17-61880
MECHANICAL PROPERTIES OF HIGH-STRENGTH BIMETAL SHEETS 67-02 M17-61971
MECHANICAL PROPERTIES OF KH14G14N3T STEEL AT MINUS 253 C 67-02 M17-61977
MECHANICAL PROPERTIES OF KH21G7AN5 STEEL AT LIQUID HYDROGEN TEMPERATURE 67-02 M17-61978
STEELS AND ALLOYS FOR CRYOGENIC APPLICATIONS 67-02 M17-61982
BRITTLENESS OF 475 C. IRON-CHROMIUM ALLOYS 67-02 M17-62095
FORMABILITY OF DI-1 HEAT-RESISTANT STAINLESS STEEL 67-02 M17-62154
AUTO-FLO CONCENTRATES ON STAINLESS 67-02 M20-60689
STRENGTHENING OF STEEL BY THERMOMECHANICAL TREATMENTS 67-03 M08-65332
EFFECT OF HYDROGEN ON FORMATION OF WELD AFFECTED ZONE CRACKS IN WELDING HARDENING STEELS 67-03 M11-65048
DETERMINING RELAXATION RESISTANCE OF METALS FROM CREEP TEST RESULTS 67-03 M17-65070
DETERMINING THE THERMAL PLASTICITY OF STEEL DURING CYCLIC TENSILE TESTING FOLLOWED BY STRESS RELAXATION 67-03 M17-65072
METHOD FOR DETERMINING CREEP INDEXES IN RELAXATION TESTING 67-03 M17-65073
LOW-ENDURANCE FATIGUE OF AN ALUMINIUM ALLOY AND A STAINLESS STEEL IN PLANE BENDING AT AMBIENT AND ELEVATED TEMPERATURES 67-03 M17-65172
EFFECTS OF SEVERAL FACTORS ON THERMAL FATIGUE 67-03 M17-65313
TITANIUM ALLOYS LOOK BEST FOR MACH 3 TRANSPORT AIRCRAFT 67-03 M17-65489
DETERMINING THE CREEP STRENGTH OF PEARLITIC STEEL THREADED SPECIMENS 67-03 M17-65609
AN APPARATUS FOR DETERMINING THE ELASTIC CONSTANT OF METALS IN THE 20 TO - 253 C. TEMPERATURE RANGE 67-03 M17-65612
FAILURE ANALYSIS OF A GASEOUS HYDROGEN HEAT EXCHANGER-LIQUID METAL EMBRITTLEMENT 67-03 M17-65933
INVESTIGATION OF REVERSE TEMPER BRITTLENESS OF 37KHN3A STEEL 67-03 M17-65971
DETERMINING THE AMOUNT OF AUSTENITE IN MULTI-PHASE HARD DEPOSITED METAL 67-04 M12-67174
THE EFFECT OF TWO-PHASE STRUCTURE ON THE SUSCEPTIBILITY TO DEFORMATION OF HIGH-ALLOY CHROMIUM AND CHROMIUM-NICKEL STEELS 67-04 M17-66019
INFLUENCE OF BORON ON STRUCTURE AND PROPERTIES OF KH16N25M2V5 STAINLESS STEEL 67-04 M17-66090
LONG-TERM RUPTURE STRENGTH OF ALLOYS AND PLASTICS FROM TENSILE STRENGTH AT ELEVATED TEMPERATURES 67-04 M17-66235
INFLUENCE OF IMPURITIES ON ANISOTROPY OF MECHANICAL PROPERTIES IN STEELS 67-04 M17-66356
INFLUENCE OF PLASTIC DEFORMATION, COLD TREATMENT AND AGING ON MECHANICAL PROPERTIES OF KH18N9T STAINLESS STEEL 67-04 M17-66374
THE EFFECTS OF COLD TREATMENT ON JOINTS IN VNS5 STEEL 67-04 M17-66514
STUDY OF THE DURABILITY OF BUILT-UP METAL DURING CONTACT-IMPACT LOADING 67-04 M17-66570
EFFECT OF LOAD AND TEMPERATURE CYCLING ON CREEP RESISTANCE AND STRUCTURE OF ESSHETE 1250 67-04 M17-66730
FATIGUE OF ALLOYS AT ELEVATED TEMPERATURES IN A STATISTICAL ASPECT 67-04 M17-67232
ELECTRON MICROSCOPIC AND X-RAY DIFFRACTION ANALYSIS OF 1KH18N9T STEEL FRACTURES 67-04 M17-67373
THE EFFECT OF TRACE ELEMENTS ON THE DEFORMATION BEHAVIOR OF A HIGH-TEMPERATURE NICR STEEL 67-04 M17-67410
PLASTIC TORSION 67-04 M17-67611
THE EFFECTS OF STABILIZING ANNEALING ON THE LONG TIME STRENGTH OF JOINTS IN KH18N10T STEEL 67-04 M17-67673
A NEW STEEL FOR THE EXHAUST VALVES OF INTERNAL COMBUSTION ENGINES 67-04 M17-67696
15KH16N2M HEAT-RESISTING STAINLESS STEEL 67-04 M17-67699
FATIGUE STRENGTH CRITERIA OF METALS AND ALLOYS BASED ON ENERGY DISSIPATION 67-04 M17-67819
CERTAIN CONSIDERATIONS REGARDING THE DUCTILITY PROPERTIES OF STAINLESS STEELS WHEN HOT 67-04 M17-67874
PROPERTIES OF CR-MN-NI STEELS CONTAINING NITROGEN AT LOW TEMPERATURES 67-04 M17-67975
STRUCTURE AND PROPERTIES OF KH16N6 --EP288-- STEEL 67-04 M17-67983
TEMPERING OF QUENCHED FERRITIC-AUSTENITIC CR-NI STEEL 67-04 M17-67985
ON THE RELATIONSHIP BETWEEN THE TENSILE STRENGTH AND YIELD POINT FOR STEELS 67-04 M17-68085
DEFORMABILITY OF DI-1 HEAT-RESISTING STAINLESS STEEL 67-04 M17-68196
MECHANICAL PROPERTIES OF METALS 67-05 M01-68474
EFFECT OF URANIUM ON THE TRANSVERSE DUCTILITY OF RESULPHURIZED CHROMIUM STAINLESS STEEL ROLLED PLATE 67-05 M17-68345
EFFECT OF MOLYBDENUM AND TUNGSTEN ON THE PROPERTIES OF KH25N16G7AR STEEL 67-05 M17-68356
KH23N7SL STEEL AS A SUBSTITUTE FOR EI316 NICKEL STEEL USED FOR HEAT RESISTANT CASTINGS 67-05 M17-68365
EFFECT OF PHASE COMPOSITION ON THE RESISTANCE OF 1KH12N2VMF STEEL TO RELAXATION 67-05 M17-68367
RESISTANCE TO HYDRAULIC ABRASION OF 10KH15N4G4D2L STAINLESS STEEL OF THE TRANSITION CLASS 67-05 M17-68454
FRICTION AND WEAR TESTING UNDER HIGH TEMPERATURE OF CAST AND OTHER METALS 67-05 M17-68953
OBTAINING HIGH-TEMPERATURE IMPACT FRACTURES FOR ELECTRON MICROFRACTOGRAPHY 67-05 M17-69049
WEAR-RESISTANT ALLOY 67-05 M17-69232
FATIGUE STRENGTH OF SOME HEAT RESISTANT MATERIALS IN VARYING TEMPERATURE CONDITIONS 67-05 M17-69258
INVESTIGATION OF TORSIONAL AND HIGH-TEMPERATURE FATIGUE STRENGTH OF EI437B STEEL 67-05 M17-69259
TESTING SOME STAINLESS STEELS FOR HYDROSTATIC BULGING 67-05 M17-69441
DUCTILITY OF STAINLESS AND HEATPROOF STEELS 67-05 M17-69695
THE EFFECT OF PRELIMINARY PLASTIC DEFORMATION ON THE RESISTANCE OF MATERIALS UNDER THE DYNAMIC EFFECT OF LEAD MELTS 67-06 M17-70328
CRACK FORMATION IN HYDROGEN-CHARGED STEEL TENSILE-TEST SPECIMENS 67-06 M17-70839
THE EFFECTS OF FRACTIONAL DEFORMATION DURING HEAT AND MECHANICAL TREATMENT ON HIGH-TEMPERATURE STRENGTH 67-06 M17-70923
CRACK PROPAGATION AT STRESSES BELOW THE FATIGUE LIMIT 67-06 M17-71084
THE EFFECTS OF BORON ON THE PROPERTIES OF AUSTENITIC STEELS 67-06 M17-71133
STUDIES ON THE THERMAL FATIGUE UNDER CONDITIONS OF TRANSIENT TEMPERATURE GRADIENT IN CROSS-SECTION 67-06 M17-72070
PROBLEMS, PROPERTIES AND SELECTION OF STRUCTURAL METALS FOR USE IN CRYOGENIC ENVIRONMENT 67-06 M17-72092
EMBRITTLEMENT OF SOME STEELS BY AMMONIA AT HIGH TEMPERATURES AND PRESSURES 67-06 M17-72398
METALLURGICAL PROBLEMS IN STEAM REFORMING PLANT 67-07 M01-74266
EFFECT OF HYDROGEN ON CRACKING IN THE HEAT

AFFECTED ZONE IN THE WELDING OF HARDENABLE STEELS
67-07 M11-73968
OPERATING GEARS IN A SIMULATED SPACE VACUUM--THE VACUUM FACILITY AND SEVERAL TECHNIQUES
67-07 M17-72758
METHOD OF DETERMINING THE CREEP INDEX IN RELAXATION TESTS 67-07 M17-72969
ESTIMATE OF THE RELAXATION RESISTANCE OF METALS FROM THE RESULTS OF CREEP TESTS
67-07 M17-72970
DETERMINATION OF THE THERMAL PLASTICITY OF STEEL BY A TEST WITH CYCLIC TENSION FOLLOWED BY STRESS RELAXATION 67-07 M17-72972
EFFECT OF MAXIMUM CYCLIC TEMPERATURE ON THE CONFIGURATION OF THE HYSTERESIS LOOP WHEN STUDYING THERMAL FATIGUE OF EI703 STEEL
67-07 M17-73034
METHOD OF STUDYING THE DAMAGE ASSOCIATED WITH THERMAL FATIGUE 67-07 M17-73106
INFLUENCE OF ELECTROPOLISHING TEMPERATURE ON FATIGUE STRENGTH OF 12KHN3A STAINLESS STEEL
67-07 M17-73176
HIGH STRENGTH CAST STEEL 67-07 M17-73251
THE EROSION OF DEPOSITED METALS BY STREAMS OF ABRASIVE SUBSTANCES 67-07 M17-73426
RESISTANCE OF DEPOSITED METAL TO CONTACT-IMPACT LOADS 67-07 M17-73427
TECHNOLOGICAL DUCTILITY OF STAINLESS AND HEAT-RESISTANT STEELS 67-07 M17-74081
FATIGUE OF THICK CYLINDERS--FURTHER PRACTICAL INFORMATION 67-07 M17-74087
A HIGH-TEMPERATURE STEEL 67-08 M01-74871
EFFECT OF MOLYBDENUM ON THE PROPERTIES OF STAINLESS TOOL STEELS 67-08 M17-74344
FIGHT AGAINST WEAR STARTS WITH MATERIAL SELECTION
67-08 M17-74488
THE POTENTIAL DANGER OF CENTRIFUGE BASKETS
67-08 M17-74510
DETERMINING THE LONG-TERM STRENGTH OF THREADED TEST BARS OF PEARLITE STEEL 67-08 M17-74534
DEVICE FOR DETERMINING THE CHARACTERISTICS OF ELASTICITY OF METALS IN THE TEMPERATURE RANGE PLUS 20 TO MINUS 253 C 67-08 M17-74537
EXPERIMENTAL DETERMINATION OF INTERNAL STRESSES IN BILAYER SHEET STEEL 67-08 M17-74584
RECOVERY OF THE ELASTIC MODULUS OF THE EI702 ALLOY
67-08 M17-74981
A SPECIAL FEATURE OF METAL FLOW IN COOLING MEDIA CONSISTING OF LIQUIDS AND AIR
67-08 M17-75010
THE FLOW BEHAVIOR OF THICK-WALLED HOLLOW BODIES UNDER INTERNAL PRESSURE 67-08 M17-75107
FRACTURE CHARACTERISTICS IN QUENCHED STEEL
67-08 M17-75269
A HIGH-TEMPERATURE IRON-BASE CASTING ALLOY
67-08 M17-75457
CYCLIC STRAIN-SOFTENING EFFECTS IN METALS
67-08 M17-75970
INFLUENCE OF THE STRUCTURE ON THE CREEP RESISTANCE OF REFRACTORY ALLOYS
67-08 M17-76040
STABILITY OF PLASTIC AND FATIGUE PROPERTIES OF 1KH18N9T STAINLESS STEEL UNDER STATIC LOAD IN VACUUM AND IN LIQUID LITHIUM 67-09 M17-76426
EFFECTS OF ANNEALING AT HIGH TEMPERATURES ON THE PROPERTIES OF NICKEL-CHROMIUM ALLOYS
67-09 M17-76716
RESEARCH INTO THE DUCTILITY OF 1KH21N5T --E1811-- STEEL AT HIGH TEMPERATURES 67-09 M17-76974
PLASTICITY CRITERIA FOR METALS AT ELEVATED TEMPERATURES 67-09 M17-77415
CREEP IN ROTATING DISKS IN TRANSIENT PERIOD
67-09 M17-77573
INFLUENCE OF RESIDUAL STRESSES ON STRENGTH PROPERTIES OF HYDROGENATED STEEL
67-09 M17-77957
THE EFFECT OF IRRADIATION ON THE HIGH TEMPERATURE FRACTURE OF STAINLESS STEEL 67-09 M17-78265
STAINLESS STEELS 67-10 M01-79217
AN AUSTENITIC MANGANESE-CHROMIUM STEEL FOR USE AT TEMPERATURES DOWN TO -70 C., AND THE METHOD OF PRODUCING IT 67-10 M01-79663
APPLICATIONS AND PROPERTIES OF 15-5 PH
67-10 M01-79752
NEW CONCEPTS IN ECONOMY 67-10 M01-79753
A CAST CHROMIUM STEEL FOR HEAVILY-LOADED COMPONENTS OPERATING AT ELEVATED TEMPERATURES
67-10 M04-79328
RELATIONSHIP BETWEEN FERRITE CONTENT AND FORGEABILITY IN 18-8 STAINLESS STEELS
67-10 M07-78676
RADIATION EFFECTS ON SHEAR STRENGTH OF SEVERAL ALLOYS AT LIQUID HYDROGEN ENVIRONMENT
67-10 M16-78492
BIBLOGRAPHIC STUDY OF THE EFFECT OF RARE EARTH METAL ADDITIVES ON THE PROPERTIES OF STEEL
67-10 M17-78325
ELEVATED NITROGEN CONTENTS IN AUSTENITIC CRNI AND CRMN STEELS 67-10 M17-78339
NEW STAINLESS STEELS FOR SURGICAL CUTTING INSTRUMENTS 67-10 M17-78372
EFFECT OF BORON ON THE PROPERTIES OF 45KH10G14YU2 STEEL 67-10 M17-78435
A REVIEW OF CRYOGENIC FRACTURE TOUGHNESS BEHAVIOR
67-10 M17-78484
MEASUREMENT OF STRAIN HARDENING IN SHEET METALS
67-10 M17-78504
INTERNAL STATIC PRESSURE TESTS ON NORMAL AND HI-PROOF STAINLESS STEELS 67-10 M17-78559
EFFECTS OF HEATING RATE AND COOLING RATE ON THE THERMAL FATIGUE LIFE UNDER CONDITIONS OF TRANSIENT TEMPERATURE GRADIENT
67-10 M17-78656
A MARAGING STAINLESS FOR 800 TO 1100 F. SERVICE
67-10 M17-78764
MECHANICAL PROPERTIES OF HIGH-STRENGTH BIMETALLIC SHEETS 67-10 M17-78828
MECHANICAL PROPERTIES OF KH14G14N3T STEEL AT MINUS 253 C 67-10 M17-78834
MECHANICAL PROPERTIES OF KH21G7AN5 STEEL AT THE TEMPERATURE OF LIQUID HYDROGEN
67-10 M17-78835
INDUSTRIAL TESTS ON THE KO-3 --CR-MN-NI-TI-- STEEL, AND SPECIAL FEATURES OF ITS STRUCTURE
67-10 M17-78928
CERTAIN FEATURES OF VARIATION IN THE PROPERTIES AND STRUCTURE OF KH21N5T AND OKH21N6M2T TWO-PHASE STEELS AFTER THEY ARE TEMPERED
67-10 M17-78944
IMPROVING THE STRUCTURE AND PROPERTIES OF 10KH16N25M6 STEEL BY ADDING RARE EARTH METALS TO IT 67-10 M17-78964
THE BEND STRENGTH OF HARDENABLE STRUCTURAL STEELS DURING DELAYED BREAKDOWN 67-10 M17-78980
BENDING WITHOUT BREAKING 67-10 M17-79184
CHANGE IN FRACTURE STRUCTURE AND IMPACT STRENGTH OF 3KH13N7S2 STEEL AS A RESULT OF OVERHEATING DURING HOT PRESSWORKING AND HEAT TREATMENT
67-10 M17-79326
STUDY OF THE CHARACTERISTICS OF STEEL DURING DEFORMATION AT HIGH RATES 67-10 M17-79741
INFLUENCE OF THE MANNER OF LOADING --IMPOSED STRESS OR STRAIN-- ON THE EVOLUTION OF THE MECHANICAL PROPERTIES OF METALS DURING FATIGUE
67-10 M17-80017
A NEW CAST STEEL FOR HYDRAULIC MACHINERY
67-10 M20-78480
ANISOTROPY OF MECHANICAL PROPERTIES IN TUBES AS ONE OF THE FACTORS IN THE SELECTION OF A HOT DEFORMATION METHOD 67-11 M07-80861
TECHNOLOGICAL PROPERTIES OF HEAT RESISTANT EP150 TUBE STEEL 67-11 M07-80864
A METHOD OF INVESTIGATING LOW-CYCLE THERMAL FATIGUE
67-11 M17-80415
SELECTED MECHANICAL PROPERTIES OF CLADDING AND STRUCTURAL MATERIALS 67-11 M17-80474
THE SHORT-TIME TENSILE AND LONG-TIME CREEP-RUPTURE PROPERTIES OF THE HF AND HH ALLOYS
67-11 M17-80682
MECHANICAL PROPERTIES OF METALS
67-11 M17-80764
CHANGES IN THE MECHANICAL PROPERTIES OF X10NICRWTI36.15 STEEL MELTED IN AN ELECTRIC FURNACE, CAUSED BY REMELTING IN A MULTIPLE-CHAMBER ELECTRON BEAM FURNACE
67-11 M17-80846
DEPENDENCE OF THE ANISOTROPY OF THE MECHANICAL PROPERTIES OF STEEL ON THE DEGREE OF CONTAMINATION WITH NONMETALLIC INCLUSIONS
67-11 M17-80958
EFFECT OF PLASTIC DEFORMATION, CHILLING, AND AGING ON THE STRENGTH CHARACTERISTICS OF KH18N9T STEEL
67-11 M17-80976
FRACTURE BY MICROSCOPIC PLASTIC DEFORMATION PROCESSES 67-11 M17-81100
HARDNESS OF STRAINED METAL 67-11 M17-81160
CARBON CONTROL STOPS CRACKING IN TYPE 316
67-11 M17-81192

STAINLESS STEELS

DYNAMIC DEFORMATION AGING OF CERTAIN METALS 67-11 M17-81427
STEELS FOR ADVANCED TECHNOLOGY 67-12 M01-82802
CHEMICALLY RESISTANT STEELS AND ALLOYS. PRESENT STATE AND DEVELOPMENT 67-12 M01-83287
EFFECT OF DELTA FERRITE ON THE HOT CRACKING OF STAINLESS STEEL 67-12 M11-82821
STUDY OF THE ABRASIVE WEAR OF MATERIALS UNDER ACTUAL CONDITIONS OF BLAST FURNACE OPERATION 67-12 M17-81728
THERMAL RESISTANCE AND WEAR RESISTANCE OF ROLLING MILL GUIDES 67-12 M17-81729
INVESTIGATION OF 1KH12VNMF STEEL FOR FORGED TURBINE ROTORS 67-12 M17-81839
PRODUCTION OF HIGH-TEMPERATURE IMPACT FRACTURES IN ELECTRON MICROFRACTOGRAPHY 67-12 M17-82000
HYDROGEN EMBRITTLEMENT OF METALS WITH A FACE CENTERED CUBIC LATTICE 67-12 M17-82126
SHORT DURATION CREEP AND RELAXATION OF HIGH-TEMPERATURE ALLOYS 67-12 M17-82158
NOMOGRAMS OF THE STRESS RELAXATION QUOTIENT 67-12 M17-82183
MECHANICAL PROPERTIES OF DI-1 STEEL AT ELEVATED TEMPERATURES 67-12 M17-82193
THE EFFECT OF MACHINING ON THE FATIGUE STRENGTH OF KH17N2 AND KH17N5M3 --SN-3-- STEELS 67-12 M17-82197
THE EFFECT OF PRELIMINARY PLASTIC DEFORMATION UPON THE RESISTANCE OF STEEL TO HYDROGEN EMBRITTLEMENT 67-12 M17-82431
THE EFFECT OF ELECTROLYTIC HYDROGEN UPON THE DUCTILITY OF METALS AND ALLOYS 67-12 M17-82441
FATIGUE STRENGTH AND DAMPING PROPERTIES OF WELDMENTS OF KH17N2 AND D15L STEELS 67-12 M17-82632
FLOW AND FRACTURE IN METALS 67-12 M17-82661
FATIGUE STRENGTH UNDER AXIAL LOADING. PT. 5. STRENGTH OF U-SHAPED BELLOWS 67-12 M17-82829
INVESTIGATION OF THE RELATIONSHIP BETWEEN THE BENDING FATIGUE STRENGTH AND THE DISTRIBUTION OF RESIDUAL STRESSES OF CASE-HARDENED STEELS 67-12 M17-82844
HIGH-ALLOYED CAST STEELS. THE PRESENT STATE AND DEVELOPMENT TRENDS 67-12 M17-83288
EFFECT OF BORON ON PROPERTIES OF 45KH10G14YU2 STEEL 67-12 M17-83433
NOTCH SENSITIVITY OF KH21G7AN5 STAINLESS STEEL AT LIQUID HYDROGEN TEMPERATURE 67-12 M17-83533

STAINLESS STEELS, MECHANICAL PROPERTIES

FORMATION OF SURFACE CRACKS ON 4KH13 STEEL AND
FORMATION OF SURFACE CRACKS ON 4KH13 STEEL AND METHODS FOR THEIR PREVENTION
METHODS FOR THEIR PREVENTION 67-12 M17-83544
BIG SHAKE TAKES THE STRESS OUT OF METAL 67-12 M20-81897
TECHNIQUES FOR TESTING STRUCTURAL MATERIALS IN RELATION TO THEIR APPLICATION IN NUCLEAR REACTORS 67-12 M20-82813

STAINLESS STEELS, MELTING

IMPROVEMENT IN STEELMAKING, CASTING AND HEATING METHODS OF 0-2KH13 STEEL INGOTS 67-01 M04-57672
CONSUMABLE VACUUM ARC MELTED INGOT 67-02 M04-58938
REDUCTION OF PRODUCTION COST IN MELTING STAINLESS STEEL 67-02 M04-59568
IMPROVED QUALITY INGOT SURFACE FROM EI654 STEEL 67-02 M04-59593
METHODS FOR REDUCING CARBON-FREE FERROCHROME CONSUMPTION IN MELTING STAINLESS STEELS WITH OXYGEN 67-02 M04-59860
OXIDATION OF CARBON DURING OXYGEN BLOWING OF A HIGH-CHROMIUM BATH 67-02 M04-61744
PLASMA-ARC REMELTING OF METALS AND ALLOYS 67-02 M04-62158
MATERIAL BALANCE OF TITANIUM DURING ELECTROMELTING OF STAINLESS STEEL 67-02 M04-62264
PHASE COMPOSITION OF FLUORINE-BEARING SLAGS OF ELECTROSLAG REMELTING 67-03 M13-65777
THE TRANSFERRED PLASMA ARC JET REMELTING OF METALS AND ALLOYS 67-04 M04-67165
ELECTROSLAG REMELTING OF EI481 CR-MN-NI HEAT RESISTANT STEEL 67-05 M04-69685
CONSUMABLE REMELTING WITH THE HOPKINS PROCESS 67-06 M04-70128
SOME ASPECTS OF PRODUCTION OF ALLOY STEELS AND STAINLESS STEEL CASTINGS 67-06 M04-71323
THE HYDROGEN CONTENTS OF LIQUID STEEL FROM THE ELECTRIC ARC FURNACE WHEN USING LUMP LIME, LIME FINES, AND SMALL-SIZE SOFT-BURNT LIME 67-07 M04-72711
ELECTROSLAG REMELTING OF CHROMIUM-MANGANESE-NICKEL HEAT-RESISTING EI481 STEEL 67-07 M04-74071
DEOXIDATION AND REMOVAL OF IMPURITIES IN VARIOUS SIZES OF ARC FURNACES 67-08 M04-75721
PROPERTIES OF 20 PER CENT-CHROMIUM STEEL, PRODUCED IN FURNACES WITH ACID AND BASIC LINING 67-08 M06-75200
IMPROVING THE QUALITY OF VERY LOW-CARBON STAINLESS STEELS BY USING HIGH-PURITY FERROCHROMIUM 67-09 M04-77360
WHAT MAKES THE TOC PROCESS TICK 67-10 M04-78568
MANUFACTURE OF STAINLESS STEEL IN THE TOP BLOWN OXYGEN CONVERTER 67-10 M04-78617
PRODUCING HIGH-ALLOY STEELS IN OXYGEN CONVERTERS 67-11 M04-80850
MICROSCOPIC STUDY OF THE CHANGE IN THE MINERAL COMPOSITIONS OF SLAGS DURING BIOLING OF STAINLESS STEEL IN THE COURSE OF MELTING 67-11 M13-81463
THE PRESENT STATUS OF PRODUCTION OF COLD WIDE STRIP OF STAINLESS STEEL AT THE DUETSCHEN HIGH-GRADE STEELWORKS 67-12 M04-83286

STAINLESS STEELS, METAL POWDERS

STUDY OF THE PRESSIBILITY OF METAL POWDERS OF DIFFERENT DISPERSITY 67-02 M09-62119

STAINLESS STEELS, METAL WORKING

PRODUCTION OF 30-100 MM STAINLESS AUSTENITE SHEET AT THE WITCOWICE GOTTWAID PLANT 67-01 M07-58165
THE IMPROVEMENT IN MECHANICAL PROPERTIES BY THERMO-MECHANICAL TREATMENT AND ITS APPLICATION TO TOOL MATERIALS 67-01 M17-57218
X-RAY CONTROL OF THE WIRE MILL 67-02 M07-59003
THE SYNTHETIC FLUID AND ITS USES IN WIRE DRAWING 67-02 M07-59005
TESTS IN SIMULATING THE CLOSING OF DEFECTS DURING SWAGING AND DRAWING OF LOW-DUCTILE STEEL 67-02 M07-59822
HIGH-ENERGY FORMING YIELDS HIGH SAVINGS 67-02 M07-61092
PRESSURE OF METAL ON ROLLERS WHEN ROLLING BY OVAL-SQUARE AND OVAL-EDGE OVAL SYSTEM 67-02 M07-61212
COLD DRAWING TUBES IN WORK HARDENED STATE 67-02 M07-61874
SOME APPLICATIONS OF EXPLOSIVE FORMING 67-03 M08-65113
USE OF POLYURETHANE PADS FOR COLD FORMING OPERATIONS 67-04 M07-66335
COLD DRAWING TUBES IN A WORK-HARDENED CONDITION 67-04 M07-67693
APPLICABILITY TO OTHER METALS OF DRAWABILITY TESTS WITH STEELS 67-04 M08-66398
INVESTIGATION OF KH18N10T STAINLESS STEEL TUBES BENT BY INDUCTION HEATING 67-04 M08-66592
HEMISPHERE FORMING SMOOTHER VIA FLUID METHOD 67-05 M07-68802
EXPLOSIVE FORMING AT LTV VOUGHT AERONAUTICS DIVISION 67-05 M07-68983
COMBINATION DRAWING OF LIGHT-GAGE MATERIAL 67-05 M07-69440
EXPLOSIVE-FORMING CHARACTERISTICS OF MATERIALS 67-06 M07-71514
EXPLOSIVE FORMING AT NORTH AMERICAN AVIATION 67-06 M07-71582
DETERMINING THE CONTACT AREA WHEN SPINNING BOTTOMS 67-06 M08-70281
SPECIAL-PURPOSE TURNING MACHINE FOR TURNING BLANKS IN TUBE PRODUCTION 67-07 M07-72434
ON THE QUALITY OF 18-8 STAINLESS STEEL WIRE ROD FROM CONTINUOUS-CAST BILLETS 67-07 M07-72440
INVESTIGATION OF THE STRENGTHENING OF ST. 3 AND KH17N13M2T STEELS DURING STRAIGHTENING 67-07 M07-73197
CONTINUOUS PLANISHING 67-07 M08-74264
THE PRODUCTION OF CLAD HOLLOW BODIES BY HOT EXTRUSION 67-08 M07-75108
GKN COLD FORGING PARTS 67-08 M07-76098
THE FINE BALNKING PROCESS 67-08 M08-76194
STAINLESS STEEL TUBES BY STEWARTS AND LLOYDS 67-09 M07-76458
MACHINING AND HEADING--SELECTION OF STAINLESS STEEL GRADES 67-09 M08-77100
STAINLESS STEELS 67-09 M08-77819
PRESS FORMING OF STAINLESS STEELS

67-09 M08-78142
STAINLESS STEEL FUEL PIN CLADDING
67-09 M20-77548
ZERO DEFECTS DOWN TO THE WIRE 67-10 M07-78570
EVALUATION OF THE DEFORMATION PROPERTIES WITHOUT RUPTURE OF KH18N10T AND KH18N12M2T --EI448-- STEELS DURING HELICAL CROSS-ROLLING
67-10 M07-78975
INFLUENCE OF ULTRASONICS ON THE UPSETTING OF STEELS THAT ARE DIFFICULT TO WORK 67-10 M07-79671
FORGING STAINLESS AND HIGH TEMPERATURE GRADES
67-10 M07-79757
COLD FORMING STAINLESS AND SUPERALLOYS
67-10 M07-79758
HIGH ENERGY RATE FORMING COMES OF AGE
67-10 M08-78766
HOW TO UPGRADE FREE-MACHINING PROPERTIES
67-10 M08-79763
MEASURING MACHINABILITY 67-10 M08-79764
CLOSED-DIE FORGING IN SCOTLAND. PT. 2
67-11 M07-80420
ADVANTAGES OF WARM FORMING 67-11 M07-81693
GAS-JET LASER CUTTING 67-11 M08-81002
THE ART OF SHAPING STAINLESS TUBING
67-11 M08-81199
DETERMINING THE FORCE IN SPIN FORMING BOTTOMS WITH A FLAT TOOL 67-11 M08-81658
DEFORMABILITY OF DEEP-DRAWING SHEETS UNDER BIAXIAL TENSILE STRESS 67-11 M17-80398
INFLUENCE OF WALL THICKNESS ON PRECISION DURING MANUFACTURE OF BOTTOMS BY SPIN FORMING
67-12 M08-81800
DRIFT-BOLT AND FLOW-TURNING. PT. 2
67-12 M08-82060
EXPERIMENTAL STUDY OF FORCES IN SPIN FORMING TUBE BOTTOMS 67-12 M08-82065
PRODUCING THIN-WALLED TUBULAR BILLETS IN 4KH13 STEEL AND SHAPING THE WORKING PORTION OF A COILED TUBULAR SPRING 67-12 M08-82066
RESEARCH AND DEVELOPMENT OF HIGH-RATE FORMING TECHNIQUES 67-12 M08-83235
EXPLOSIVES BLAST METAL INTO SHAPE
67-12 M08-83480
FUNDAMENTAL STUDIES ON LAPPING 67-12 M12-83597
THE MECHANISM OF FORMING IN BENDING
67-12 M17-82776

STAINLESS STEELS, METALLOGRAPHY
SURFACE PREPARATION AND ITS EFFECT ON THE RESULTS OF ELECTRON-BEAM MICROANALYSIS
67-01 M13-58336
LASER MICROPROBE HELPS IDENTIFY INCLUSIONS
67-03 M19-65981

STAINLESS STEELS, MICROSTRUCTURE
NATURE OF THE SEGREGATION SQUARE IN STAINLESS STEEL
67-01 M13-58075
EFFECT OF GRAIN SIZE ON STRESS CORROSION OF TYPE 302 AUSTENITIC STAINLESS STEEL
67-01 M18-58483
ESTABLISHMENT OF DIAGRAMS OF STRUCTURES OF CHROMIUM AND TUNGSTEN STEELS ON THE BASIS OF THE EXTENT IN SPACE OF THE AUSTENITE DOMAIN IN THE TERNARY ALLOYS IRON---CHROMIUM OR TUNGSTEN---CARBON
67-02 M13-58928
BEHAVIORS OF THE PRECIPITATES OF 17-4PH STAINLESS STEEL BY THE ARC WELDING HEAT
67-03 M14-65842
INFLUENCE OF THE MACROSTRUCTURE ON THE RADIOGRAPHIC IMAGES OF CAST STAINLESS STEELS
67-04 M13-66044
STUDIES ON THE SOLIDIFYING RATE AND FORMATION OF SULFIDE INCLUSIONS IN VARIOUS RESULFURIZED STEELS
67-04 M13-67560
INFLUENCE OF THE TIME AND TEMPERATURE OF HEATING ON THE GRAIN SIZE OF KH18N12T STEEL
67-04 M13-67982
EXPLOSION STRENGTHENING OF ARMCO IRON
67-04 M17-67646
NONUNIFORM DISTRIBUTION OF TITANIUM IN AN FE-NI-TI ALLOY
67-06 M13-70921
TRANSMISSION ELECTRON MICROSCOPE EXAMINATION OF CRACKS FORMED IN MASSIVE BODIES
67-06 M13-71015
STUDY OF THE MICROGEOMETRY OF FRACTURES
67-07 M13-72866
QUALITY OF LARGE KH21N5T STEEL INGOT
67-10 M13-79274
JOINT USE OF CONTROLLED-POTENTIAL METALLOGRAPHIC ETCHING AND THE ELECTRON PROBE MICROANALYZER FOR THE STUDY OF COMPLEX STRUCTURES IN STAINLESS STEELS 67-10 M13-79984
ULTRASONIC HEATING OF METALS 67-12 M13-82150
ANALYSIS OF THE MICROGEOMETRY OF FRACTURES
67-12 M13-82174
MICROSTRUCTURES AND NITRIDES OF FE-CR-N TERNARY SYSTEM 67-12 M13-82825

STAINLESS STEELS, NONDESTRUCTIVE TESTING
ATTENUATION OF LAMB WAVES AT ULTRASONIC FREQUENCIES IN STEEL AT HIGH TEMPERATURES
67-02 M19-60260
APPLICATION OF EXOELECTRONIC EMISSION IN METAL SCIENCE 67-02 M19-60859
NONDESTRUCTIVE TESTING OF COMPOSITE STRUCTURES WITH THE SONIC RESONATOR 67-02 M19-60916
THE UTILIZATION OF APPARENT DEFECT AND BACKGROUND ECHOES IN ULTRASONIC TESTING 67-03 M19-65325
APPLICATION OF THE METHOD OF EXOELECTRON EMISSION IN METAL SCIENCE 67-08 M19-76117
NONDESTRUCTIVE TESTING OF ADHESIVE BONDS IN AIRCRAFT 67-10 M19-79437

STAINLESS STEELS, OPTICAL PROPERTIES
INTEGRAL DEGREE OF BLACKNESS OF MATERIALS IN THE TEMPERATURE INTERVAL 100 TO 1100 C
67-09 M15-76762

STAINLESS STEELS, OXIDATION
ELECTRON DIFFRACTION ANALYSIS OF THE OXIDE LAYER ON V2A STAINLESS STEEL 67-03 M13-65124
EFFECTS OF RARE EARTH ELEMENTS ON HIGH-TEMPERATURE OXIDATION BEHAVIOR OF FE-18 PER CENT CR ALLOYS CONTAINING SILICON 67-09 M18-78218
INFLUENCE OF ANNEALING CONDITIONS OF COLD ROLLED STAINLESS STEEL --18-8-- IN OXIDIZING ATMOSPHERE UPON THE SURFACE CONTENT OF FE, CR, NI AND MN, AND UPON THE SCOURABILITY OF THE OXIDE
67-11 M18-80358
INFLUENCE OF SURFACE TREATMENT ON THE INITIAL STAGES OF OXIDATION OF A 20 PER CENT CR-35 PER CENT NI STAINLESS STEEL 67-12 M18-83217

STAINLESS STEELS, PASSIVITY
HOW TO PASSIVATE STAINLESS STEELS
67-02 M18-60245

STAINLESS STEELS, PHASE TRANSFORMATIONS
STABILIZATION OF REVERSE MARTENSITIC TRANSFORMATION UNDER THE EFFECT OF INTERNAL PRECIPITATION HARDENING 67-02 M14-59856
STUDY OF THE ISOTHERMAL TRANSFORMATIONS IN 17 PER CENT CR STAINLESS STEELS. PT. 3. INFLUENCE OF ALLOYING ELEMENTS OTHER THAN CARBON AND NITROGEN
67-02 M14-61124
STABILITY OF AUSTENITE IN SOME FE-CR-NI ALLOYS AT LOW DEFORMATION TEMPERATURES 67-02 M14-61981
STRESSES DURING MARTENSITIC TRANSFORMATIONS OF 3KH13 AND 4KH13 STAINLESS STEELS
67-04 M14-66359
A NEW EXCESS PHASE IN CR-MN-NI-TI STEEL
67-04 M14-67977
STUDY OF ISOTHERMAL TRANSFORMATIONS IN SEMI-FERRITIC STAINLESS STEELS WITH 17 PER CENT CHROMIUM
67-05 M14-69114
EFFECT OF HOT PLASTIC DEFORMATION ON THE KINETICS OF ISOTHERMAL TRANSFORMATION OF AUSTENITE
67-05 M14-69668
PRECIPITATION HARDENING IN STEEL
67-06 M14-71936
AN INVESTIGATION ON THE AGING BEHAVIOR AND PRECIPITATE IN 17-7 PH STAINLESS STEEL --STUDY OF 17-7 PH STAINLESS STEEL. PT. 10.--
67-07 M14-72530
STABILITY OF AUSTENITE IN SOME FE-CR-NI ALLOYS IN DEFORMATION AT LOW TEMPERATURE
67-10 M14-78838
RECRYSTALLIZATION DIAGRAM OF LOW-PLASTICITY CHROMIUM-NICKEL-HEAT-RESISTANT STEEL
67-10 M14-78840
STRESSES DURING MARTENSITIC TRANSFORMATION OF AUSTENITIC STAINLESS STEELS 3KH13 AND 4KH13
67-11 M14-80961
SOME CHARACTERISTICS OF MARTENSITE DECOMPOSITION IN HIGH-CHROMIUM STEEL WITH INCREASED NITROGEN CONTENT 67-12 M14-81847
THE PRECIPITATION BEHAVIOR OF AUTENITIC CR-NI STEELS ALLOYED WITH NITROGEN 67-12 M14-82557
INVESTIGATION OF RECRYSTALLIZATION OF FERRITIC-MARTENSITIC STEEL X7CR14 --REMANIT 1510--
67-12 M14-83290

STAINLESS STEELS, PHASES /STATE OF MATTER/
STUDY OF THE ISOTHERMAL TRANSFORMATIONS IN 17 PER CENT CR STAINLESS STEELS. PT. 3. INFLUENCE OF ALLOYING ELEMENTS OTHER THAN CARBON AND NITROGEN

STAINLESS STEELS
67-02 M14-59632
EFFECT OF MOLYBDENUM ON PHASE COMPOSITION AND MICROSTRUCTURE OF CHROMIUM-NICKEL STEELS
67-03 M13-65965
PHASE ANALYSIS OF EP164 AND E1725 STEELS AND EI893 ALLOY 67-09 M13-76966
INVESTIGATION OF THE PHASE COMPOSITION OF EI847 STEEL ALLOYED WITH MOLYBDENUM AND NIOBIUM
67-10 M13-78929
RELATIONSHIP BETWEEN STRENGTHENING AND PHASE CHANGES IN HIGH-STRENGTH DISPERSION-HARDENING NON-MAGNETIC STEEL 67-12 M14-82156
STAINLESS STEELS, PHYSICAL PROPERTIES
THE INFLUENCE OF THERMAL AND MECHANICAL EFFECTS ON THE AMPLITUDE DEPENDENCE OF INTERNAL FRICTION OF IRON AND ITS ALLOYS 67-04 M15-66854
STUDY OF THE WETTING OF TITANIUM 3 STEEL AND 1KH18N9T STEEL BY MAGNESIUM AND MAGNESIUM CHLORIDE 67-06 M15-71129
APPARATUS FOR TESTING THE THERMAL CONDUCTIVITY OF METALS 67-12 M19-83209
STAINLESS STEELS, PIGMENTS
STAINLESS STEEL FLAKES FOR RESISTANT COATINGS
67-06 M12-71559
STAINLESS STEELS, PLATE /METAL/
HIGH ENERGY-RATE FORMING SOME UNUSUAL APPLICATIONS
67-06 M07-70865
STAINLESS STEELS, POWDER METALLURGY
WHATS NEW IN POWDER METALLURGY 67-02 M09-60249
DEPENDENCE OF COMPACTION PRESSURE ON THE RATIO OF THE COMPACTING SURFACE AREA AND THE AREA OF THE FRICTION SURFACE BETWEEN THE POWDER AND THE DIE WALLS 67-02 M09-61782
EFFECT OF SPHEROIDIZATION ON THE STRUCTURE AND PROPERTIES OF POWDERS 67-04 M09-67332
TOKENS AND MEDALLIONS MADE BY POWDER METALLURGY
67-05 M09-68948
THE PUSH FOR PERMEABILITY 67-06 M09-72316
CALCULATION OF TERMINAL FEED ANGLE DURING VERTICAL ROLLING OF POWDERS 67-06 M09-72318
SLIP CASTING OF METAL POWDERS 67-07 M09-73871
SINTERED TYPE 316L STAINLESS--ITS PROPERTIES AND PROCESSING 67-08 M09-74490
EXTRUDABILITY OF KH18N15 STAINLESS STEEL POWDER
67-08 M09-74581
METHODS AND SPECIAL FEATURES OF ROLLING BIMETALLIC STRIPS FROM METAL POWDERS
67-08 M09-74904
FILTERS FOR HIGH DEGREE OF REFINEMENT
67-08 M09-75467
POROUS PARTS FROM SINTERED CR-NI STEEL
67-12 M09-83295
STAINLESS STEELS, POWDER METALLURGY PARTS
THE MOTION OF GASES AND LIQUIDS IN POROUS SINTERED MATERIALS 67-02 M09-62125
THE EFFECTS OF WATER VAPOR AND NITROGEN IN SINTERING ATMOSPHERES ON THE CORROSION RESISTANCE OF SINTERED STAINLESS STEEL 67-05 M18-68315
STAINLESS STEELS, RADIATION EFFECTS
RADIATION EFFECTS IN NONFUEL MATERIALS
67-11 M16-80472
STAINLESS STEELS, REACTIONS /CHEMICAL/
OXIDE INCLUSIONS FORMED IN THE STEELS OF FE-CR-O SYSTEM 67-01 M04-58597
THERMODYNAMIC ANALYSIS OF THE REDUCTION OF CHROMIUM INCLUSIONS IN 20 PER CENT-CHROMIUM STEEL BY RARE EARTH METALS OF THE CERIUM SUBGROUP
67-04 M04-66608
CARBON AND NITROGEN TRANSFER IN A TYPE-316 STAINLESS STEEL, CB-1 PER CENT ZR, LIQUID-POTASSIUM SYSTEM 67-04 M14-66389
INFLUENCE OF HYDROGEN, HIGH TEMPERATURE AND HIGH PRESSURE ON MECHANICAL PROPERTIES OF METALS
67-04 M17-66345
THE VISCOSITY OF TITANIUM-BEARING SLAGS AND ITS EFFECT ON LOSS OF TITANIUM IN ALLOYING STAINLESS STEELS 67-06 M04-69971
ANODIC BEHAVIOR OF AISI 316 STAINLESS STEEL IN A HCLO4-HCL SOLUTION 67-09 M18-76489
STAINLESS STEELS, REFINING
SINGULARITIES OF THE DECARBURIZATION OF AN IRON-CHROMIUM MELT WHEN BLOWING WITH GAS
67-02 M04-60062
VACUUM DEGASSING OF STAINLESS AND ALLOY STEELS
67-07 M04-72774
DEGASSING TRIALS OF STEEL BY TREATMENT WITH LIQUID SLAG 67-07 M04-73019
A COMPARATIVE ANALYSIS OF THE TECHNICAL-ECONOMIC INDEXES OF STEEL PRODUCTION IN VACUUM ARC AND ELECTROSLAG FURNACES 67-08 M04-74350
CONSUMABLE-ARC VACUUM MELTED STEEL FOR FORGINGS
67-09 M04-76506
CHANGE IN THE PHASE COMPOSITION OF SLAGS WHEN ALLOYING STAINLESS STEEL WITH TITANIUM
67-09 M04-77270
EFFECT OF DEOXIDATION ON THE PROPERTIES OF CERTAIN STEELS IN LIQUID AND SOLID STATES
67-09 M04-77861
SOME METALLURGICAL PROBLEMS IN ELECTROSLAG REMELTING 67-09 M04-77864
EVALUATION OF CHROMIUM RECOVERY IN CR-NI STAINLESS STEELS --300 SERIES-- 67-09 M04-78007
EFFECT OF SILICON ON SURFACE PROPERTIES OF 18-8 STAINLESS STEEL SHEETS 67-09 M04-78010
SURFACE ACTIVITY IN ELECTROSLAG REMELTING
67-10 M04-78426
ELECTROSLAG REMELTING AT ESC 67-11 M04-80403
OUTGASSING OF METAL SURFACES BY ELECTRON BOMBAROMENT 67-11 M04-80424
MANUFACTURE OF STAINLESS STEEL IN THE TOP-BLOWN OXYGEN CONVERTER 67-11 M04-80563
REFINING AND DEGASSING METAL IN ELECTRON BEAM MELTING 67-11 M04-80855
PRODUCING HEAVY-GAGE CHROMIUM-NICKEL STEEL CONTAINING NIOBIUM 67-12 M04-81867
STAINLESS STEELS, ROLLING
HOW ROLLING RATE AFFECTS BITE TORQUE ON A COLD 2800 MILL 67-01 M07-58171
A ROD AND BAR MILL FOR SPECIALTY STEELS
67-02 M07-60235
INFLUENCE OF METALLURGICAL FACTORS ON HOT STRIP MILL DESIGN 67-02 M07-60238
RADICAL MILL INSURES FLATNESS IN LIGHTGAGE STRIP
67-03 M07-65435
ROLLING TUBES ON A KHPTR MILL WITH A TWO-ROW SEPARATOR 67-05 M07-68553
EXPANSION AND DEFORMATION EFFICIENCY WHEN ROLLING IN DRAWING PASSES 67-06 M07-70279
CALCULATION METHOD FOR HOT ROLLING OF STEEL SHEET AND STRIP 67-06 M07-70809
ROLLING TUBES ON THE KHPTR MILL WITH TWIN SEPARATORS 67-07 M07-72464
CONTROL OF A MULTISTAND HOT-STRIP MILL
67-07 M07-72900
THE PRODUCTION AND FABRICATION OF COLD-FORMED SECTIONS AT THE WORKS OF AYRSHIRE METAL PRODUCTS LTD 67-07 M07-72998
RHEOLOGICAL PROPERTIES OF STEEL AND LEAD
67-08 M07-75879
MAINTAINING ROLL CAMBER IN HOT ROLLING SPECIAL STEELS ON CONTINUOUS MILLS 67-09 M07-77632
COLD ROLLING OF STEEL SHEET 67-10 M07-78391
ROLLING OF STAINLESS STEELS SUSCEPTIBLE TO INCREASED WIDENING 67-10 M07-78432
DEVELOPMENT OF A TECHNOLOGY FOR ROLLING INGOTS IN KH23N18 STEEL 67-11 M07-80859
ROLL BARREL CONTOURS FOR HOT ROLLING SPECIAL STEELS ON CONTINUOUS MILLS 67-11 M07-80920
THE MECHANISM OF RIDGING PHENOMENON IN 17 PER CENT-CHROMIUM STAINLESS STEEL SHEETS
67-11 M17-80941
POSSIBILITIES OF IMPROVING THE PRODUCTIVITY OF COLD ROLLING TUBE MILLS 67-12 M07-81874
PROCESSING AND APPLICATIONS OF STAINLESS STEEL WIRE
67-12 M07-82276
WIDE PLANETARY MILL FOR STAINLESS STEEL
67-12 M07-82931
COLD DEFORMATION OF STAINLESS STEEL UNDER CERTAIN CONDITIONS OF SURFACE QUALITY
67-12 M07-83293
ROLLING STAINLESS STEELS LIABLE TO INCREASED SPREAD
67-12 M07-83430
STAINLESS STEELS, SEALS /STOPPERS/
MATERIALS FOR MECHANICAL SEALS 67-05 M20-69546
STAINLESS STEELS, SHEET /METAL/
THE DEPOSITION OF THIN FILMS OF ENRICHED URANIUM DIOXIDE 67-03 M12-65016
STAINLESS STEELS, SLABS
CONTINUOUS CASTING--THE PRESENT STATE OF THE ART
67-01 M04-58488
STAINLESS STEELS, SOLUBILITY
SOLUBILITY OF NBC IN 20 PER CENT CR-25 PER CENT NI STAINLESS STEEL 67-08 M14-75812
STAINLESS STEELS, SPRINGS /ELASTIC/
METHOD OF INCREASING THE ENDURANCE OF COMPRESSION SPRINGS 67-10 M17-78822
STAINLESS STEELS, STAMPING
DESIGN AND USE OF DIES FOR PRESSING SHAPES FROM

STEEL 67-01 M08-57262
STAINLESS STEELS, STEEL MAKING
OXIDATION OF CHROMIUM AND CARBON DURING OXYGEN BLOWING OF HIGH-CHROMIUM METAL 67-01 M04-57180
CONFERENCE FOR APPLICATION OF THE FUNDAMENTAL PRINCIPLES OF THERMODYNAMICS TO METALLURGICAL PROCESS 67-02 M04-59157
EFFECTIVENESS OF USING CHROMIUM ORE IN THE PRODUCTION OF CHROMIC ELECTRIC ARC STEELS 67-02 M04-61957
THE NEW ELECTRICAL STEEL-WORKS OF THE MARREL BROTHERS SOCIETY AT RIVE-DE-GIER 67-03 M06-65364
STUDY OF APPLICATION OF CERIUM-LANTHANUM MISCH METAL IN PRODUCTION OF STAINLESS STEELS 67-07 M04-73120
CONTROL OF COMPOSITION IN ARC FURNACES 67-09 M04-76423
CONTRIBUTION ON THE USE OF CERIUM-LANTHANUM MISCH METAL IN THE PRODUCTION OF SPECIAL STEELS 67-10 M04-79675
STAINLESS STEELS, STRAIN HARDENING
THE MECHANISM OF THE STRENGTHENING OF METALS DURING MECHANICAL-THERMAL TREATMENT 67-12 M17-82116
STAINLESS STEELS, SURFACE FINISHING
FUNDAMENTAL STUDIES ON LAPPING 67-01 M08-57216
POLISHING--MANUAL AND MECHANICAL 67-01 M12-57559
BUILD-UP OF VALVE SEALING SURFACES IN CO2 67-03 M12-65058
VIBRATORY FINISHING 67-05 M12-68438
CO2-SHIELDED HARDFACING ON THE SEATING SURFACES OF GATE VALVES 67-07 M12-73980
GLOSS-BUFFING EFFECTS OF GREASE-BASE BUFFING COMPOUNDS ON 18 CR-8 NI STAINLESS STEEL 67-08 M12-74924
PROGRESS IN THE FIELD OF ELECTROLYTIC POLISHING AND DEBURRING 67-09 M12-76700
CHEMICAL-ENERGY DEBURRING AS APPLIED TO FUNCTIONAL COMPONENTS 67-10 M12-79190
FINISHES MAKE THE PRODUCT 67-10 M12-79761
STAINLESS STEELS, SURFACE PROPERTIES
CAVITATION ATTACK IN BUILT-UP METAL 67-01 M17-58205
FLAKE PREVENTIVE TREATMENT OF CONTINUOUS CAST SHEET BILLETS OF CHROMIUM STEELS 67-06 M04-71248
INVESTIGATION OF THE DESORPTION OF GASES FROM METAL SURFACES UNDER THE ACTION OF ELECTRON BOMBARDMENT 67-06 M14-72036
RELATIONSHIP OF THE DEGREE OF DEACTIVATION OF ACID-RESISTANT STEEL CONTAMINATED WITH RADIOACTIVE COBALT TO ITS SURFACE STATE 67-10 M16-79651
STAINLESS STEELS, THERMAL PROPERTIES
UO2/SHEATH HEAT TRANSFER DURING IRRADIATION 67-06 M15-70713
THE PREDICTION OF THE TOTAL HEMISPHERICAL EMISSIVITIES OF POLISHED METALS FROM THEIR THERMAL CONDUCTIVITIES 67-06 M15-71048
THERMAL STRESSES IN PLATES DURING INTERMITTENT HEAT CYCLING 67-06 M17-70298
SOME PROBLEMS OF CYCLIC HEAT RESISTANCE 67-06 M17-70746
EFFECT OF THE HOLDING TIME AT MAXIMUM TEMPERATURE ON THE THERMAL FATIGUE LIFE UNDER CONDITIONS OF TRANSIENT TEMPERATURE GRADIENT 67-08 M15-75132
STRAIN MEASUREMENTS IN TUBES DURING RAPID TRANSIENT HEATING 67-10 M15-78776
STAINLESS STEELS, THERMAL STABILITY
STEELS FOR PIPES OF FURNACES FOR PYROLYSIS OF GASEOUS HYDROCARBONS 67-05 M17-68363
MODERN MATERIALS FOR GAS TURBINE BLADES AND DISKS 67-05 M17-68369
STAINLESS STEELS, THERMODYNAMICS
THE THERMODYNAMICS OF THE CARBIDE REACTION IN CR18NI9 STAINLESS CHROMIUM-NICKEL STEEL 67-10 M15-79736
STAINLESS STEELS, TUBEMAKING
CHOOSING LUBRICANTS FOR HOT PIERCING OF ROUND BILLETS 67-07 M07-73787
BIG METAL BELLOWS DUCTS FEED SATURNS S-1C BOOSTER 67-08 M20-74733
LUBRICANTS FOR HOT BROACHING OF ROUND BILLETS 67-09 M07-76550
TUBE DRAWING VIA ULTRASONICS 67-10 M07-78595
STAINLESS STEELS, TUBES
MANUFACTURE OF FINNED TUBE FOR HIGH-PRESSURE GAS SYSTEMS 67-11 M07-81525
STRUCTURAL EVOLUTION OF CENTRIFUGALLY CAST 25CR-20NI-TYPE STEELS DURING PROLONGED HOLDING AT HIGH TEMPERATURE 67-11 M14-80243
STAINLESS STEELS, TUBING /METAL/
PRODUCING TUBES FROM EI711 STEEL 67-05 M07-69694
STAINLESS STEELS, UPSETTING
EFFECT OF ULTRASOUND IN UPSETTING HARD-TO-FORM STEELS 67-04 M07-66086
STAINLESS STEELS, VACUUM METALLURGY
METALLURGICAL AND OPERATIONAL CONSIDERATIONS OF MELTING IN THE THERM-I-VAC FURNACE 67-02 M06-60225
STEEL DEOXIDIZED BY VACUUM TREATMENT AWAY FROM THE FURNACE 67-06 M04-70355
STAINLESS STEELS, WEAR
TESTING BUILT-UP METAL FOR WEAR IN A STREAM OF DUST-FILLED GAS AT HIGH TEMPERATURES 67-04 M17-67092
WEAR MECHANISM OF THE SURFACE OF CU-ZN METAL GROUP IN THE PRESENCE OF MERCURY AND ULTRASONIC VIBRATIONS 67-07 M17-73162
INFLUENCE OF CARBON ON FORMATION OF MARTENSITE AND CAVITATION RESISTANCE 67-09 M17-77371
TESTING OF DEPOSITED METAL FOR WEAR IN A HIGH-TEMPERATURE GAS FLOW CONTAINING DUST 67-09 M17-78072
INFLUENCE OF LUBRICANT ADDITIVES ON WIRE-WOOL TYPE BEARING FAILURES WITH 12 PER CENT CHROMIUM STEEL JOURNALS 67-10 M17-79578
STAINLESS STEELS, WELDING
MAKING THE MOST OF HEAT TREATING EQUIPMENT 67-01 M10-58013
WARPING OF EDGES IN WELDING THIN SHEET MATERIALS 67-01 M11-57371
ARGON-ARC WELDING OF KH14G14N3T STEEL 67-01 M11-57376
WELD-QUALITY MONITOR FOR RESISTANCE WELDING 67-01 M11-58351
VIBRATION WELD-SURFACING 67-01 M12-57203
HOW TO CONTROL DILUTION IN WELD OVERLAYS. PT. 1 67-01 M12-58759
QUALITY CONTROL PROCEDURES FOR WELDED FEED HEATERS 67-01 M19-57976
LASER WELDING OF CERTAIN METALS 67-02 M11-59511
WELDING OF COPPER AND COPPER ALLOYS IN THE CONSTRUCTION OF VESSELS AND OTHER EQUIPMENT 67-02 M11-59830
CAPACITOR DISCHARGE MACHINES FOR SPOT-WELDING OF LIGHT ALLOYS 67-02 M11-60018
STAINLESS STEEL WELDS 67-02 M11-60590
INSURING THE CONSTANCY OF THE HEAT CONDITIONS IN ARGON ARC WELDING CIRCULAR SEAMS 67-02 M11-60830
ON THE SLAG CONTENT OF SEAMS WHEN WELDING KH18N9T STEEL WITHOUT EDGE PREPARATION 67-02 M11-60839
AIR-ARC FUSION OF DEFECTIVE PORTIONS OF WELDED JOINTS IN STAINLESS STEELS 67-02 M11-60840
WHERE DO WE STAND IN WELDING HIGH STRENGTH STEELS 67-02 M11-61098
DRAWN-ARC CAPACITOR DISCHARGE--A MAJOR NEW PRODUCTION TOOL 67-02 M11-61578
EFFECT OF NITROGEN ON THE MECHANICAL PROPERTIES OF KH17N4G14AB STEEL WELDED JOINTS 67-02 M11-62165
ELECTRON BEAM WELDING 67-03 M11-65023
SUCCESSFUL WELDING FOR LOW TEMPERATURE SERVICE 67-03 M11-65297
VACUUM-INERT WELDING GETS THE MOST OUT OF EXOTIC METALS 67-03 M11-65361
METHOD OF SUBMERGED MULTILAYER WELDING 67-04 M11-66103
METALS JOINING 67-04 M11-66193
TO MUFFLE A NUCLEAR ROCKET ENGINE.. WELDED STAINLESS 67-04 M11-66250
LASER WELDING OF SOME METALS 67-04 M11-66460
STEEL WELDING UNDER CARBON DIOXIDE AND OTHER INERT GASES 67-04 M11-66671
ELECTRON BEAM WELDING OF FINISH-MACHINED PRECISION PARTS WITH CONSIDERATION GIVEN TO DESIGN AND METALLURGICAL INFLUENCE 67-04 M11-66725
PROPERTIES OF WELDED JOINTS IN HEAT RESISTANT STAINLESS STEELS 67-04 M11-66802
PROGRAMMING FOR PULSED ARC WELDING OF TUBES 67-04 M11-67006
EFFECTS OF NITROGEN IN THE MECHANICAL PROPERTIES OF

WELDED JOINTS IN KH17N4G14AB STEEL 67-04 M11-67175
WELDABILITY OF AISI 321 STAINLESS STEEL TUBES WITH SECHERON ELECTRODES 67-04 M11-67220
DIFFUSION WELDING OF DISSIMILAR METALS 67-04 M11-67629
WELDING OF STEELS VARYING IN COMPOSITION AND STRUCTURAL CLASS 67-04 M11-67801
EFFECT OF EDGE PREPARATION ON THE AMOUNT OF PARENT METAL IN THE WELD METAL 67-04 M11-67811
MAINTENANCE OF CONSTANT THERMAL CONDITIONS DURING ARGON ARC WELDING OF PIPES 67-04 M11-67987
SLAG IN WELDS MADE IN KH18N9T STEEL 67-04 M11-67996
AIR-ARC GOUGING OF DEFECTIVE PORTIONS FROM WELDS IN STAINLESS STEELS 67-04 M11-67997
INFRARED SENSOR CONTROLS PENETRATION, IMPROVES WELD QUALITY 67-05 M11-68663
SPACECRAFT PLUMBING SYSTEMS 67-05 M11-68674
VARIETY AND COMPLEXITY OF CONTROLS INVOLVED IN FABRICATION OF HEAVY-WALL WELDED CONSTRUCTIONS 67-05 M11-69328
EFFECT OF THE PARAMETERS AND PRECISION OF JOINT ASSEMBLY ON FORMATION OF GIRTH WELDS 67-05 M11-69403
CRYSTALLIZATION OF MOLTEN POOL IN WELDING LIGHT-GAGE METALS 67-05 M11-69405
WELDING HIGH-ALLOYED STAINLESS STEELS UNDER CERAMIC FLUX 67-05 M11-69407
WELDING WITH AN ARC ROTATING IN A MAGNETIC FIELD 67-05 M11-69412
SPOTLIGHT ON ARC WELDING. PT. 30. F. ATKINSON --NOTTINGHAM--LTD 67-05 M11-69430
ADVANTAGES OF PLASMA ARC WELDING 67-05 M11-69557
ELECTROSLAG WELDING OF HEAVY-GAGE KH17N13M3T STEEL 67-05 M17-69416
NEW DEVELOPMENTS IN ELECTRON-BEAM WELDING 67-06 M11-70236
WELDING STEELS OF DISSIMILAR COMPOSITION AND STRUCTURAL TYPE 67-06 M11-70301
EFFECT OF EDGE PREPARATION ON THE PROPORTION OF PARENT METAL IN THE WELD METAL 67-06 M11-70311
ARC WELDING OF COMBINED BUTTS OF STEAM HEATER PIPES IN 12KH1MF PLUS 1KH18N12T --1KH18N9T-- STEEL 67-06 M11-70396
THE WELDING OF HIGH ALLOY MATERIALS RELEVANT TO PRESSURE STEAM-REFORMING OF NAPHTHA 67-06 M11-70537
CAST-WELD FABRICATION SPURRED BY ELECTROSLAG PROCESS 67-06 M11-71009
SUBMERGED-ARC KEEPS IN STEP WITH QUALITY, MECHANIZATION 67-06 M11-71571
INVESTIGATION OF HEAT EFFICIENCY OF COMPRESSED ARC WELDING OF THIN SHEET MATERIALS 67-06 M11-71643
INFLUENCE OF HEAT TREATMENT ON STRUCTURE AND BRITTLEMENTS OF FUSION ZONE OF PEARLITIC AND MARTENSITIC STEELS 67-06 M11-71644
CORED WELDING WIRE FOR SEMI-AUTOMATIC WELDING OF KH18N10T STAINLESS STEEL 67-06 M11-71650
WELDING OF STAMPED HOOD PLATES OF THIN SHEET KH18N10T STEEL FOR RECTIFICATION COLUMNS 67-06 M11-71656
PROCESSES OCCURRING DURING THE PULSATION WELDING OF STEEL 67-06 M11-71718
CALCULATION OF THE WEIGHT OF WELDING POOL DURING FUSION WELDING 67-06 M11-71841
USE OF EP-389 WIRE FOR AUTOMATIC WELDING OF CLAD STEELS USED FOR CHEMICAL AND OIL REFINING APPARATUS 67-06 M11-71851
INFLUENCE OF THE TEMPERATURE OF METAL DROPS AND KINETICS OF ELECTRODE FUSION ON NITROGEN SATURATION OF WELD METAL 67-06 M11-72304
HEAT CONTENT OF ELECTRODE METAL DROPLETS DURING SHIELDED ARC WELDING 67-06 M15-71843
IMPROVING THE ROLL WELDING OF BELLOWS 67-07 M11-72742
GUIDE TO MIG WELDING PROCESSES 67-07 M11-73304
WORLDS LARGEST NUCLEAR ENERGY PUMP CASES ARE WELDED WITH ELECTROSLAG PROCESS 67-07 M11-74279
SOME FUNDAMENTAL PROBLEMS IN ULTRASONIC WELDING OF DISSIMILAR METALS 67-07 M11-74280
AN ANALYTICAL INVESTIGATION OF THE TEMPERATURE DISTRIBUTIONS DURING RESISTANCE WELDING 67-07 M11-74283
SOME REGULARITIES IN WELD PENETRATION DURING BUTT WELDING OF TUBES IN STATIONARY POSITION 67-08 M11-74373
APPLICATION OF A COMBINED WELDING-BRAZING PROCESS FOR WELDED STRUCTURES 67-08 M11-74377
HARD SURFACING OF SHIP SCREW PROPELLERS WITH STAINLESS STEEL 67-08 M11-74380
WELDS WERE NEVER FINER THAN THEY ARE AT GODDARD 67-08 M11-74440
PLASMA WELDING IN TUBE PRODUCTION 67-08 M11-75012
FRICTION WELDING 67-08 M11-75557
THE CONVERSION OF EXISTING TUBE WELDING INSTALLATIONS TO HIGH-FREQUENCY INDUCTION WELDING 67-08 M11-75672
AN EQUATION FOR CALCULATING OPTIMUM WELDING CONDITION IN ELECTRON BEAM WELDING. PT. 7. STUDIES ON ELECTRON BEAM WELDING 67-08 M11-75758
THE PROPERTIES OF WELDED JOINTS IN HEAT-RESISTANT STAINLESS STEELS 67-08 M11-75906
LASER WELDING MOVES UP A NOTCH 67-08 M11-76063
THE INFLUENCE OF PHYSICAL PROPERTIES ON PENETRATION IN ARC WELDING 67-09 M11-76462
ELECTROSLAG WELDING OF OIL REFINING MACHINERY 67-09 M11-76518
WELDABILITY OF TYPE KH14G14N3T CHROMIUM-NICKEL-MANGANESE STEELS 67-09 M11-77606
POROSITY IN ARGON ARC WELDING THIN SHEET WELDED JOINTS IN KH18N10T STEEL 67-09 M11-77610
PLASMA ARC WELDING 67-09 M11-77913
WHATS SO TOUGH ABOUT CRYOGENIC COLD 67-09 M11-77915
MECHANIZED HARDFACING OF SEALING FACES 67-09 M11-78100
WELDING CERAMIC MATERIALS TO METALS 67-10 M11-78404
MECHANIZATION AND AUTOMATION IN WELDING OF SECTIONAL PRESSURE VESSELS 67-10 M11-78415
DESIGN AND TESTING OF DISSIMILAR METAL TRANSITION JOINTS EMPLOYING ROLL-BONDED AND FRICTION-WELDED COMPONENTS 67-10 M11-78493
EFFECTS OF WELDING CONDITIONS AND ACCURACY ON THE FORMATION OF UNRESTRAINED WELDS 67-10 M11-78507
PRIMARY CRYSTALLIZATION OF THE MOLTEN METAL POOL WHEN WELDING THIN METAL 67-10 M11-78509
THE SUBMERGED ARC WELDING OF HIGH ALLOY STAINLESS STEELS WITH CERAMIC FLUXES 67-10 M11-78511
WELDING WITH AN ARC ROTATED IN A MAGNETIC FIELD 67-10 M11-78516
ELECTRON BEAM WELDING 67-10 M11-78797
THE THERMAL EFFICIENCY OF CONSTRICTED ARC WELDING ON THIN SHEET MATERIAL 67-10 M11-79610
INFLUENCE OF HEAT TREATMENT ON THE STRUCTURE AND TENDENCY TO EMBRITTLEMENT OF THE FUSION ZONE IN PEARLITIC AND MARTENSITIC STEELS 67-10 M11-79611
WELDING PRESSED BUBBLE PLATES FOR FRACTIONATING EQUIPMENT MADE OF KH18N10T STEEL SHEET 67-10 M11-79648
HOW TO USE COVERED ELECTRODES 67-10 M11-79759
THE ELECTROSLAG WELDING OF KH17N13M3T STEEL PLATE 67-10 M17-78520
COMPATIBILITY OF ATLAS MATERIALS WITH FLUORINE PROPELLANTS 67-10 M18-78494
COMPARISON OF THE BEHAVIOR OF SEVERAL METALS UNDER THE IMPACT OF THE ELECTRON BEAM OF A WELDING MACHINE 67-11 M11-80245
HIGH-TEMPERATURE PROPERTIES OF STEAMPIPE WELDS 67-11 M11-80279
SMALL TUBE UNCONFINED AREA RESISTANCE CLOSURE WELDING 67-11 M11-80409
CHOOSING BUILT-UP METAL WHICH IS RESISTANT TO SHOCK-LOADING 67-11 M11-80553
TECHNOLOGY OF WELDING PIPES TO OKH18N12B STEEL PIPE GRATES 67-11 M11-80556
EFFECT OF WELDING SLAG ON THE CORROSION RESISTANCE OF WELDED JOINTS 67-11 M11-80561
INFLUENCE OF THE WELDING HEAT CYCLE AND HEAT TREATMENT ON THE INTERCRYSTALLINE CORROSION SUSCEPTIBILITY OF EI847 STEEL 67-11 M11-80651
CALCULATING THE DIMENSIONS AND WEIGHT OF THE WELD POOL DURING WELDING WITH FULL THICKNESS PENETRATION 67-11 M11-80873
THE AUTOMATIC CO2 WELDING OF GRADE OKH13 STEEL 67-11 M11-80882
THE AUTOMATIC WELDING OF CLAD STEELS USING EP-389 ELECTRODE WIRE 67-11 M11-80883

LOW CURRENT CO2 GAS SHIELDED WELDING PROCESS
67-11 M11-81007
STAINLESS STEEL OVERLAY WELDING OF LARGE REACTOR BY STRIP ELECTRODE METHOD TOGETHER WITH OTHER WELDING METHODS 67-11 M11-81184
THE HEAT CONTENTS OF THE DROPLETS OF ELECTRODE METAL IN GAS SHIELDED ARC WELDING
67-11 M15-80875
CALCULATING THE HEATING OF THE EDGES OF A TUBULAR BILLET IN RADIOFREQUENCY WELDING
67-12 M11-81912
INTERNAL REINFORCEMENT FORMATION IN UNROTATED PIPE WELDS 67-12 M11-82246
USE OF BRAZE WELDED SPOT AND SEAM JOINTS IN STRUCTURES 67-12 M11-82250
SURFACING SHIPS PROPELLORS WITH STAINLESS STEEL
67-12 M11-82253
INCREASING THE RELIABILITY OF SEAM WELDED BELLOW JOINTS 67-12 M11-82321
WELD METAL OF THE JOINTS OF DIFFERENT STEELS FOR TEMPERATURES OVER 550 C 67-12 M11-82633
NEW TECHNIQUES FOR MELT-THRU TEE WELDING
67-12 M11-82659
CURRENT PENETRATION SEAM WELDING--A NEW HIGH SPEED PROCESS 67-12 M11-82818
WELD FASTENERS FIND GROWING USE IN METALWORKING
67-12 M11-83137
WELDING 1KH13M2S2 STEEL WITH OKH18N10T STEEL
67-12 M11-83187
A MACHINE FOR PULSATION ARGON ARC WELDING OF STATIONARY THICK-WALLED TUBES
67-12 M11-83190
ARC ATMOSPHERE AND NITROGEN CONTENT OF WELD METAL
67-12 M11-83211
HIGH-EFFICIENCY ELECTRODES FOR WELDING STAINLESS STEELS 67-12 M11-83280
APPLICATION OF CR-NI-MO WELDING RODS WITH STABLE AUSTENITE FOR HIGH-STRENGTH WELDMENTS
67-12 M11-83292
STAINLESS STEELS AND CLAD SHEET IN TANKER CONSTRUCTION 67-12 M20-83298

STAINLESS STEELS, WIRE
STAINLESS STEEL WIRE--WHERE IT IS TODAY
67-12 M20-82277

STAINLESS STEELS, X RAY ANALYSIS
QUANTITATIVE ANALYSIS BY X-RAY DIFFRACTION METHOD
67-01 M19-57914
ELECTRON PROBE MICROANALYSIS OF SUBMICROSCOPIC PRECIPITATES IN STAINLESS STEEL
67-04 M19-67274
SPECTROCHEMICAL ANALYSIS AT THE BALTIMORE WORKS OF ARMCO STEEL CORP 67-06 M19-71389
X-RAY DIFFRACTION ON POLYCRYSTALLINE COMPACT SPECIMENS--THE PROCESS OF NITRIDE PRECIPITATION IN CR-NI STEELS 67-09 M10-76704
NEW METHODS OF DETERMINING RESIDUAL AUSTENITE IN STEELS 67-11 M19-80240
THE MOTTLING APPEARANCE ON A RADIOGRAPH OF AUSTENITIC STAINLESS STEEL WELDMENTS
67-12 M13-83546
X-RAY SPECTROCHEMICAL ANALYSIS OF STAINLESS STEELS
67-12 M19-83294

STAMP MILLS
SEE CRUSHERS

STAMPING
SEE ALSO BLANKING
DIE STAMPING
HOT STAMPING
DESIGN AND USE OF DIES FOR PRESSING SHAPES FROM STEEL 67-01 M08-57262
FINE-BLANKED STAMPINGS NEED NO DEBURRING, SIZING
67-01 M08-58785
STAMPING OF BILLETS HEATED IN MOLTEN GLASS
67-02 M07-60678
HYDROMECHANICAL STAMPING PROCESS
67-02 M08-59141
STAMPING FORGINGS OF AUTOMOBILE VALVES OF EI992 STEEL 67-02 M08-59403
SEMI-AUTOMATIC LINE FOR STAMPING AND ASSEMBLING ELECTRIC MOTOR ROTOR AND STATOR PLATES
67-02 M08-59407
REDUCTION OF TOOL COST BY UTILIZATION OF STAMPED PARTS 67-02 M08-59802
STATUS OF THE TECHNOLOGY OF PRECISION STAMPING
67-02 M08-59810
THE ROLE OF STAMPING IN MODERN MECHANICAL ENGINEERING 67-02 M08-60614
ECONOMY DIES SPEED PRODUCT DEVELOPMENT AND PRODUCTION 67-02 M20-60244
EXPERIENCE WITH CARBIDE CUTTING TOOLS IN THE PROCESSING OF MAGNETIC CORE SHEETS
67-03 M08-65712
NEW PRODUCTION LINE TO SATISFY INCREASING DEMAND FOR PYRENES TEST PANELS 67-05 M01-68908
USE OF COMPOSITE BILLETS FOR STUDYING METAL DISPLACEMENT DURING STAMPING 67-05 M07-69438
CORRELATION BETWEEN LABORATORY TESTS AND ACTUAL PRACTICAL STAMPING RESULTS 67-05 M17-68928
SMALL STAMPINGS GET SMALLER, MORE COMPLEX, MORE PRECISE 67-06 M07-70497
STAMPING OF BALL JOINTS 67-07 M07-73443
SURFACE ROUGHNESS OF LOW-CARBON COLD-ROLLED SHEET STEEL AND THE EFFECT OF ROUGHNESS ON THE STAMPING-ELONGATION PROCESS 67-07 M08-74082
IMPROVING THE TENSILE PROPERTIES OF EP543 ALLOY FORGINGS BY EFFICIENT FORGING AND STAMPING
67-08 M07-75480
CALCULATING THE FORCES FOR STAMPING THE CENTER PART OF A BOTTOM USING A SPHERICAL PUNCH AND DIE
67-08 M08-75486
LUBRICANTS FOR BLANKING, STAMPING AND DRAWING
67-08 M08-75943
STAMPING OF LIQUID STEEL 67-09 M08-76409
DEFORMATION OF ALUMINUM BOTTOMS DURING STAMPING AND SUBSEQUENT FORMING 67-09 M08-77130
EFFECT OF HIGH-ENERGY-RATE DEFORMATION ON THE STRENGTHENING OF COPPER 67-09 M08-77132
SEVEN WAYS TO CONTROL SPRINGBACK
67-09 M08-78033
TOOLING AND PRODUCTION ON HORIZONTAL MULTISLIDE MACHINES 67-10 M08-78599
PUNCH-TO-DIE CLEARANCES IN STEEL RULE DIES DIES--THEIR IMPORTANCE AND AUTOMATIC PROVISION
67-10 M08-79530
THE STATE OF DEVELOPMENT IN THE PRECISION STAMPING TECHNOLOGY. PT. 2 67-11 M08-80298
SELECTING PRESS LUBRICANTS FOR STAMPING OPERATIONS
67-11 M08-81200
USE OF AIR AND OIL-PNEUMATIC CUSHIONS IN BLANKING DEEP DRAWING AND STAMPING OPERATIONS
67-12 M08-81923
THE STAMPABILITY OF THIN SHEETS
67-12 M08-82059

STAMPING, AUTOMATION
AUTOMATION OF STAMPING OF THE ROOF AND FRONT HOOD OF THE RENAULT 4 67-09 M08-77683

STAMPING, LUBRICANTS
IN DRAWING, BLANKING, STAMPING--SELECTING THE PROPER PRESS LUBRICANT 67-07 M08-74263

STAMPINGS, JOINING
INTRICATE SHAPES BUILT UP FROM STACKED STAMPINGS
67-03 M11-65766

STANDARDIZATION
MANUFACTURE AND INSPECTION OF THE ALUMINUM ALLOY CYLINDERS FOR COMPRESSED GASES BY THE NEW STANDARDS 67-06 M19-71446
STEEL PIPES FOR DISTRICT --LONG DISTANCE-- HEAT INSTALLATIONS 67-08 M19-74930
STANDARDS FOR NUCLEAR FUEL MATERIALS
67-09 M19-77022

STANDARDS
MACHINE-MADE MATERIALS 67-05 M01-68499
MICROSTRUCTURE STANDARDS FOR MALLEABLE IRON
67-07 M13-73615
ADOPTION OF MODIFIED GERMAN STANDARDS FOR INHIBITION OF PIPE CORROSION IN AUSTRIA
67-07 M18-74004
INTERNATIONAL PROTECTION OF NETWORKS AGAINST CORROSION 67-07 M18-74005
CONSIDERATIONS FOR ESTABLISHING ULTRASONIC TEST ACCEPTANCE STANDARDS 67-07 M19-74028
SAFE AND ECONOMICAL ALUMINUM STORAGE TANKS
67-07 M19-74100
A RATIONAL APPROACH TO STANDARDS FOR WELDED CONSTRUCTION. PT. 2 67-08 M17-74799
FRENCH STANDARD SPECIFICATION PNA36-208 ON STEELS FOR LOW-TEMPERATURE APPLICATIONS
67-08 M19-76291
A RATIONAL APPROACH TO STANDARDS FOR WELDED CONSTRUCTION 67-09 M11-76655
MATERIALS ENGINEERING FOR ELECTRONIC HARDWARE
67-10 M20-78762

STANDS
SEE SUPPORTS

STANDS /ROLL/
SEE ROLL STANDS

STANNATES, REFINING
PURIFYING SODIUM STANNATE SOLUTIONS WHEN LEACHING

STANNATES
MELTS OF ALKALINE REFINEMENT OF LEAD
67-12 M02-83088
STARK EFFECT
EFFECTS OF EXTERNAL AND INTERNAL ELECTRIC FIELDS ON THE BORON ACCEPTOR STATES IN SILICON
67-11 M16-80328
STATIC CASTING
SEE CASTING
STATIC FATIGUE
SEE CREEP RUPTURE STRENGTH
STATIC PRESSURE
SEE HYDROSTATIC PRESSURE
STATIC TESTS
SEE ALSO BEND TESTS
BRINELL HARDNESS TESTS
CREEP TESTS
HARDNESS TESTS
KNOOP HARDNESS TESTS
ROCKWELL HARDNESS TESTS
STIFFNESS TESTS
STRESS RELAXATION TESTS
MECHANICAL BEHAVIOR OF ALUMINUM STRAINED WITH IMPACT LOADING 67-02 M17-59125
LONG-TERM RUPTURE STRENGTH OF ALLOYS AND PLASTICS FROM TENSILE STRENGTH AT ELEVATED TEMPERATURES
67-04 M17-66235
ON THE FATIGUE OF TENSILE PRESTRAINED MILD STEEL UNDER REPEATED ALTERNATING COMBINED STRESSES
67-04 M17-66898
EVALUATION OF CORROSION RESISTANCE OF AUSTENITIC STAINLESS STEELS FOR WATER COOLED POWER REACTORS
67-04 M18-67592
METHODS OF DETERMINING THE MECHANICAL PROPERTIES OF SHEET BIMETALLIC JOINTS 67-05 M17-69048
TENDENCIES IN THE GENERAL DEVELOPMENT OF STATIC AND DYNAMIC TESTING MACHINES 67-05 M17-69197
DYNAMIC EFFECT OF PLASTIC DEFORMATION IN COPPER AND ITS ALLOYS 67-06 M15-70300
PLASTIC DEFORMATION OF STEEL IN COMBINED LOADING WITH A CONSTANT STRESS INTENSITY
67-06 M17-71375
METHODS FOR DETERMINING THE MECHANICAL PROPERTIES OF BIMETAL SHEET BOND 67-12 M17-81999
THE STATIC STRENGTH OF ALUMINIUM ALLOY SHEET SPECIMENS CONTAINING BLUNT NOTCHES
67-12 M17-82474
STATISTICAL ANALYSIS
DEVELOPMENT OF MATHEMATICAL MODELS WHICH PREDICT THE MECHANICAL PROPERTIES OF HIGH ALLOY, ULTRA-HIGH STRENGTH STEEL CASTINGS 67-01 M17-58479
THE ODDS AGAINST FRACTURE OR PREDICTING STRENGTH OF BRITTLE STRUCTURES 67-02 M17-60589
STATISTICAL ANALYSIS OF OPERATING DATA FROM NO. 2 OPEN HEARTH SHOP, MIDDLETOWN WORKS, ARMCO STEEL CORPORATION 67-03 M04-65506
MULTIPLE SPECIMEN FATIGUE TESTING
67-03 M17-65407
CORRECTION OF CASTING DEFECTS BY STATISTICAL EXPERIMENTS 67-04 M06-66891
MATHEMATICAL-STATISTICAL INVESTIGATION OF THE DELTA FERRITE CONTENT OF AUSTENITIC STEELS
67-04 M13-67205
USE OF STATISTICAL METHODS FOR PROCESSING DATA FROM ORE ELECTROSMELTING 67-05 M03-69531
MEASURING THE PERFORMANCE OF COATED ABRASIVES
67-05 M12-68678
STATISTICAL ANALYSIS OF SURFACE ROUGHNESS WAVEFORMS
67-06 M19-71805
PROCESS APPLICATION ANALYSIS FOR MIG WELDING
67-08 M11-75750
THE ANALYSIS AND ASSESSMENT OF ELEVATED-TEMPERATURE LOWER YIELD OR PROOF STRESS, CREEP, AND STRESS-RUPTURE DATA 67-11 M17-80258
STATISTICAL METHODS
FATIGUE OF ALLOYS AT ELEVATED TEMPERATURES IN A STATISTICAL ASPECT 67-04 M17-67232
STATOR BLADES, STAMPING
SEMI-AUTOMATIC LINE FOR STAMPING AND ASSEMBLING ELECTRIC MOTOR ROTOR AND STATOR PLATES
67-02 M08-59407
STEAM
THE HOMO METHOD STEAM ATMOSPHERE HEAT TREATING
67-10 M10-78367
STEAM, CORROSION ENVIRONMENTS
THE CORROSION BEHAVIOUR OF ANNEALED AND COLD WORKED HIGH-PURITY ALUMINUM IN PRESSURIZED WATER
67-05 M18-68642
STEAM, REACTIONS /CHEMICAL/
FUEL-WATER REACTIONS 67-09 M14-77317
STEAM BOILERS
SEE BOILERS
STEAM GENERATORS
SEE BOILERS
STEAM PIPES
INFLUENCE OF THE INGOT GEOMETRY ON THE QUALITY OF TUBULAR BILLETS OF 12KH11V2MF STEEL
67-06 M06-70479
PROPERTIES OF AUSTENITIC CR-NI STEELS
67-12 M17-81838
STEAM PIPES, DIFFUSION
THE RATES OF DIFFUSION AND COAGULATION OF CARBIDES IN CHROMIUM STEELS EXPOSED TO ELEVATED TEMPERATURES FOR LONG PERIODS
67-12 M14-82154
STEAM PIPES, HEAT TREATMENT
CHARACTERISTICS OF HEAT TREATMENT OF BOILER TUBES MADE OF 12KH1MF STEEL IN RELATION TO PRODUCTION METHOD 67-01 M10-57264
HEAT TREATMENT OF WELD JOINTS OF STEAM LINES FROM 12KH1MF AND 15KH1M1F STEEL 67-06 M10-71398
STEAM PIPES, MATERIALS
LOW-ALLOYED HEAT-RESISTANT STEEL POWER PLANTS
67-04 M17-67952
STRUCTURE, PHASE COMPOSITION, AND MECHANICAL PROPERTIES OF 12KH2MFSR STEEL
67-05 M17-68366
STEAM PIPES, MECHANICAL PROPERTIES
BRITTLE FRACTURE OF AUSTENITIC STEEL WELDS AT HIGH TEMPERATURES 67-02 M17-61241
THE SENSITIVITY OF WELDED JOINTS IN AUSTENITIC STEELS TO BRITTLE FRACTURE AT HIGH TEMPERATURES
67-04 M17-66513
SUPERHEATING PIPES TESTED AFTER OPERATION FOR 100,000 HR 67-04 M17-67131
EMBRITTLEMENT OF WELDED JOINTS IN AUSTENITIC STEEL
67-05 M17-68362
INFLUENCE OF NONUNIFORMITY OF MECHANICAL PROPERTIES OF AUSTENITIC STAINLESS STEEL WELDS ON LOCAL FAILURE 67-08 M11-74369
HOT TENSILE PROPERTIES OF 1/2 PER CENT CR-1/2 PER CENT MO-1/4 PER CENT V AND 2 1/4 PER CENT CR-1 MO STEAM PIPE MATERIAL 67-08 M17-75361
REASONS FOR EMBRITTLEMENT IN THE HEAT AFFECTED ZONE OF WELDS IN AUSTENITIC STEAMPIPES
67-09 M17-76962
STEAM PIPES, MICROSTRUCTURE
CHANGE IN THE STRUCTURE AND PROPERTIES OF HEAT RESISTANT STEELS IN WELD JOINTS OF STEAM LINES
67-06 M14-70155
STEAM PIPES, WELDING
A COMBINED METHOD OF MAKING BUTT WELDS IN STEEL PIPING 67-04 M11-67173
IMPROVING THE TECHNOLOGY OF WELDING AND REDUCING THIN-WALLED GAS PIPES ON CONTINUOUS FURNACE BUTT WELDING MILLS 67-05 M11-68552
CONTACT WELDING OF PINS TO BOILER PIPES
67-06 M11-70393
ARC WELDING OF COMBINED BUTTS OF STEAM HEATER PIPES IN 12KH1MF PLUS 1KH18N12T --1KH18N9T-- STEEL
67-06 M11-70396
GAS-TIGHT TUBEWALLS AS STRUCTURAL ELEMENTS OF PRESSURE VESSELS 67-06 M11-70460
GAS-TIGHT TUBE WALLS AS STRUCTURAL ELEMENTS IN PRESSURE VESSEL CONSTRUCTION. PT. 1
67-06 M11-70712
WELDING OF STAMPED HOOD PLATES OF THIN SHEET KH18N10T STEEL FOR RECTIFICATION COLUMNS
67-06 M11-71656
WELDING OF HIGH-PRESSURE PIPELINES WITHOUT INSERT RINGS 67-06 M11-72314
IMPROVING THE METHOD OF WELDING AND REDUCING THIN-WALLED GAS AND WATER PIPES ON BENCHES FOR CONTINUOUS FURNACE BUTT WELDING
67-07 M11-72463
ARGON ARC WELDING OF STEAM SUPERHEATING PIPES OF 12KH1MF STEEL 67-09 M11-77617
THE RESISTANCE WELDING OF STUDS TO BOILER TUBES
67-09 M11-78093
ARC BUTT WELDS BETWEEN STEAM SUPERHEATER TUBES MADE OF GRADES 12KH1MF AND 1KH18N12T --1KH18N12T-- STEELS 67-09 M11-78096
WELDING PRESSED BUBBLE PLATES FOR FRACTIONATING EQUIPMENT MADE OF KH18N10T STEEL SHEET
67-10 M11-79648
HIGH-TEMPERATURE PROPERTIES OF STEAMPIPE WELDS
67-11 M11-80279
WELDING EI993 STEEL STEAM SUPERHEATER PIPES
67-11 M11-80648

WELDING HIGH PRESSURE PIPING WITHOUT PERMANENT BACKING RINGS 67-11 M11-81586
CAST AND WELDED STEEL STRUCTURES 67-11 M20-81130
INFLUENCE OF PREHEATING ON RESIDUAL STRESSES IN STEAMPIPES OF 1KH18N9T STAINLESS STEEL 67-12 M11-83188
A MACHINE FOR PULSATION ARGON ARC WELDING OF STATIONARY THICK-WALLED TUBES 67-12 M11-83190

STEAM TURBINES
DEVELOPMENT OF HIGH-STRENGTH, CORROSION RESISTANT 13 PER CENT CR STEELS PARTICULARLY FOR TURBINE WHEELS 67-04 M10-67207
FRICTIONAL BEHAVIOR OF LABYRINTH SEAL AND SHROUD MATERIALS IN STEAM AND GAS TURBINES 67-07 M17-74056
HIGH-TEMPERATURE STEELS IN STEAM TURBINES 67-11 M20-80283

STEAM TURBINES, MATERIALS
LOW-ALLOYED HEAT-RESISTANT STEEL POWER PLANTS 67-04 M17-67952

STEAM TURBINES, WELDING
A TECHNOLOGY FOR WELDING UP CRACKS IN HIGH-PRESSURE STEAM TURBINE CYLINDERS 67-02 M11-61044

STEEL ALLOYS
SEE ALLOY STEELS

STEEL CONSTITUENTS
SEE AUSTENITE
BAINITE
CEMENTITE
FERRITE
MARTENSITE
PEARLITE
RETAINED AUSTENITE

STEEL CONVERTERS
SEE ALSO ACID CONVERTERS
BASIC BESSEMER CONVERTERS
BASIC CONVERTERS
BESSEMER CONVERTERS
BOTTOM BLOWN CONVERTERS
KALDO CONVERTERS
LD CONVERTERS
OXYGEN BLOWN CONVERTERS
TOP BLOWN CONVERTERS
RESEARCH INTO THE BUBBLING OF GASES THROUGH A TWO-PHASE FURNACE BATH 67-04 M04-67237

STEEL CONVERTERS, REFRACTORIES
THE EFFECT OF CARBON IN TAR-IMPREGNATED BURNT MAGNESITE BRICK ON THE WEAR OF BASIC OXYGEN FURNACE LININGS 67-07 M04-72710

STEEL MAKING
SEE ALSO ACID CONVERTERS
ACID OPENHEARTH PROCESS
BASIC BESSEMER CONVERTERS
BASIC CONVERTERS
BASIC OPENHEARTH PROCESS
BESSEMER CONVERTERS
BOTTOM BLOWN CONVERTERS
ELECTROSLAG PROCESS
FUEL OXYGEN SCRAP PROCESS
KALDO CONVERTERS
LD CONVERTERS
LDAC PROCESS
OXYGEN BLOWN CONVERTERS
OXYGEN STEEL MAKING
SPRAY STEEL MAKING
STEEL CONVERTERS
TOP BLOWN CONVERTERS
THERMAL CONDUCTIVITY OF BRIQUETTED STEEL CHIPS 67-01 M04-57330
GAS CONTENT OF MEDIUM-CARBON STEEL 67-01 M04-57474
OXYGEN LANCING IN THE OPENHEARTH 67-01 M04-57492
EQUILIBRIUMS BETWEEN LIQUID IRON AND SATURATED SLAGS OF THE CAO-FEON-SIO2 SYSTEM WITH CONSIDERATION OF THE DISTRIBUTION OF SULFUR 67-01 M04-57919
PILOT PLANTS IN THE IRON AND STEEL INDUSTRY 67-01 M04-58101
SEMICONTINUOUS PLANT 67-01 M04-58158
USE OF MANGANESE IN THE UKRAINIAN IRON AND STEEL INDUSTRY 67-01 M04-58288
PRODUCTION OF AL-KILLED STEEL FOR LOW TEMPERATURE USES IN CONVERTER 67-01 M04-58561
CONFERENCE FOR APPLICATION OF THE FUNDAMENTAL PRINCIPLES OF THERMODYNAMICS TO METALLURGICAL PROCESS 67-02 M04-59157
BLAST FURNACE OPERATION USING MARCONA PELLETS UP TO 65 PER CENT IN BURDEN 67-02 M04-60035
RELATION BETWEEN MOLTEN STEEL COMPOSITION AND INCLUSION COMPOSITION 67-02 M04-60036
SAND SEAM OF LOW-CARBON KILLED STEEL FOR TUBE 67-02 M04-60038
PRODUCTION OF COMMERCIALLY PURE IRON FROM VACUUM DESULFURIZED PIG IRON. PT. 1 67-02 M04-61211
CAPPED RIMMING STEELS--THEORY AND PRACTICE 67-02 M04-61655
EFFECTIVENESS OF USING CHROMIUM ORE IN THE PRODUCTION OF CHROMIC ELECTRIC ARC STEELS 67-02 M04-61957
PROPERTIES OF STEEL MADE BY DIFFERENT PRODUCTION METHODS 67-02 M17-60283
OXY/FUEL BURNERS IN ELECTRIC ARC STEELMAKING 67-03 M04-65827
ELECTRICAL WORKING CONDITIONS FOR ELECTRIC FURNACES INVESTIGATED BY STATISTICAL ECONOMICS USING PUNCHED CARD COMPUTERS 67-04 M04-66209
CONSUMPTION OF ELECTRODES IN ARC FURNACE 67-04 M04-66210
RESEARCH INTO THE BUBBLING OF GASES THROUGH A TWO-PHASE FURNACE BATH 67-04 M04-67237
PHYSICO-CHEMICAL INVESTIGATIONS ON STEELMAKING PROCESSES IN JAPAN 67-04 M04-67543
EFFECTIVENESS OF USING CHROME ORE IN PRODUCING ELECTRIC STEELS CONTAINING CHROMIUM 67-04 M04-67775
STUDY OF THE POSSIBILITIES OF CONTINUOUS STEELMAKING 67-05 M04-68727
SLAB CASTING--CAUTION GIVES WAY TO ACTION 67-05 M04-68809
REFLECTIONS ON THE DEOXIDATION OF STEEL 67-05 M04-68901
EXPERIMENTAL RESULTS OBTAINED BY VOEST WITH A NEW DIRECT METHOD OF PRODUCING LIQUID STEEL 67-05 M04-69326
INLANDS NO. 5 BLAST FURNACE IS SUPERVISED BY COMPUTER 67-05 M19-69491
METHOD OF VACUUMING METALS AND SIMULTANEOUSLY TREATING THEM WITH A SLAG COLUMN 67-06 M04-70147
CHEMICAL EQUILIBRIUM AND ITS APPLICATION TO METALLURGICAL REACTIONS 67-06 M04-71193
STEEL AND THE CAMERA 67-06 M04-71894
ELECTRIC ARC FURNACE STEELMAKING 67-06 M04-72004
BEHAVIOR OF DEOXIDATION PRODUCTS IN THE DEOXIDATION OF STEEL WITH ALUMINUM. PT. 1. INVESTIGATION INTO THE BEHAVIOR OF DEOXIDATION PRODUCTS IN IRON AND STEEL 67-06 M04-72210
RATE OF MANGANESE AND SILICON COMPLEX DEOXIDATION OF STEEL. PT. 4. KINETIC RESEARCHES INTO THE DEOXIDATION OF STEEL 67-06 M04-72291
THE ASEA-SKF REFINING PROCESS 67-07 M04-72793
INVESTIGATION OF CARBURIZATION AND DESULFURIZATION IN LOW-SHAFT ELECTRIC FURNACES 67-07 M04-73238
EXPERIENCE OF A NEW TECHNOLOGY FOR REMELTING BALL-BEARING STEEL 67-07 M04-74140
DUPLEX REFRACTORY SNORKLE TUBE ADVANCES PRESSURE POURING PROCESS 67-07 M05-73843
CONTROL OF SCRAP COMPOSITION FOR ALLOY STEELS PRODUCTION 67-08 M04-75984
NITROGEN-BEARING SINTERED PRODUCTS AND MELTED ALLOYS 67-09 M04-77582
NEW MELTING TECHNOLOGY FOR IMPROVING THE PURITY OF SLAGS OF CRMN ALLOYED CASE-HARDENING STEELS AND CR, CRV ALLOYED HEAT TREATABLE STEELS 67-09 M04-77584
CONTROL OF QUALITY IN STEELMAKING 67-09 M19-76416
VISCOSITY OF BASIC ELECTRIC STEELMAKING SLAGS 67-10 M04-79314
ARE PREREDUCED PELLETS A LUXURY 67-10 M04-79434
POURING PIT REFRACTORIES--NOZZLES 67-10 M04-79565
MANUFACTURE OF STEEL FOR SAFETY RAZORS 67-10 M04-79854
FERROMANGANESE HANDLING AND FEEDING 67-11 M04-80112
THE VARIATIONS OF THE COMPONENTS IN THE INCLUSION 67-11 M04-80750
ALLOYING STEEL WITH CHROMIUM 67-11 M04-81041
EQUILIBRIUM BETWEEN IRON MELTS AND SLAGS OF THE SYSTEM FEON-CAO-P2O5-MGO AT 1600 C 67-12 M04-83393

STEEL MAKING, AUTOMATIC CONTROL
STEELMAKING.. A GROWING ROLE FOR COMPUTERS AND CONTROLS 67-06 M20-70687
STEEL MAKING, AUTOMATION
THE COMPUTERS ROLE IN STEEL PLANT AUTOMATION 67-05 M04-69175
STEEL MAKING, CHEMICAL ANALYSIS
RECENT AND FUTURE DEVELOPMENTS IN THE CHEMICAL CONTROL OF STEEL COMPOSITION AND MANUFACTURE 67-06 M19-72007
STEEL MAKING, MATHEMATICAL MODELS
PROCESS SIMULATION AND CONTROL IN IRON AND STEELMAKING 67-01 M04-57901
STEEL MAKING, QUALITY CONTROL
PROBLEMS ASSOCIATED WITH WEIGHING IN STEELMAKING SHOPS 67-09 M19-76420
NEW METHOD FOR CONTROLLING STEEL QUALITY. MICROPROBE AND RADIOACTIVE TRACER ANALYSIS OF INCLUSIONS 67-09 M19-78290
STEEL MAKING, REACTIONS /CHEMICAL/
ON DESULFURIZATION OF PIG IRON FOR STEEL MANUFACTURE IN THE REVERSIBLE SHAKING LADLE --DM CONVERTER-- AND PRODUCTION OF LOW SULFUR STEELS 67-01 M04-58596
REVERSIBLE SHAKING LADLE --D-M CONVERTER-- 67-02 M04-60619
STEEL MAKING, TEMPERATURE CONTROL
EFFECT OF ELECTROMAGNETIC FIELDS ON THERMOCOUPLE READINGS IN CONTINUOUS CONTROL OF METAL TEMPERATURE IN AN ELECTRIC FURNACE 67-10 M19-78428
STEEL MILLS
SEE IRON AND STEEL PLANTS
STEEL PLANTS
SEE IRON AND STEEL PLANTS
STEEL WORKS
SEE IRON AND STEEL PLANTS
STEELS
SEE ALSO ALLOY STEELS
CARBON STEELS
LOW ALLOY STEELS
MARAGING STEELS
REINFORCING STEELS
SILICON STEELS
STAINLESS STEELS
STRUCTURAL STEELS
TOOL STEELS
EXPERIENCES WITH OIL-FIRED BELL-TYPE ANNEALING FURNACES 67-07 M10-72564
STEELS, BILLETS
INVESTIGATION OF A BUTT WELDING MACHINE AND THE WELDING CONDITIONS FOR WELDING CONTINUOUS BILLETS IN A 350-2 MILL 67-02 M11-60197
STEELS, BIMETALS
INVESTIGATION OF NONSTATIONARY THERMAL FIELDS IN ALUMINUM-STEEL BIMETAL 67-01 M11-58268
RESEARCH INTO THE TRANSIENT THERMAL FIELD IN ALUMINIUM CLAD STEEL 67-04 M11-67349
STEELS, BONDING
THE ADHESIVE BONDING OF METALS WITH DIFFERENT COEFFICIENTS OF THERMAL EXPANSION 67-05 M11-68939
TIN-FREE STEEL CANS RUN HOT AND COLD 67-06 M11-70500
THE STATUS AND DEVELOPMENT TRENDS IN THE ADHESIVE BONDING OF METALS INCLUDING RECENT RESEARCH RESULTS 67-06 M11-71221
APPLYING CARBIDE COATINGS BY ADHESIVE BONDING 67-08 M12-74492
INVESTIGATIONS INTO THE LONG-TIME BEHAVIOR OF COMBINED BONDED AND SPOT WELDED JOINTS 67-09 M11-77338
STEELS, BRAZING
ON ORIENTED CRYSTALLISATION IN BRAZED SEAMS 67-12 M14-82417
STEELS, CABLES
STEEL CABLES WITH METALLIC CORES 67-06 M17-71270
INHIBITING CORROSION OF REACTOR PRESTRESSING CABLES 67-11 M18-81245
STEELS, CASTING
ON THE TECHNIQUES FOR MANUFACTURING OF LARGE STEEL CASTINGS AND SOME PROBLEMS CONCERNING THEM 67-01 M06-58258
DETERMINATION OF THE LEVEL OF LIQUID STEEL IN AN INGOT MOLD FOR CONTINUOUS CASTING OF STEEL 67-02 M04-59499
DIRECTIONAL SOLIDIFICATION OF STEEL CASTINGS 67-02 M06-60201
THE FORMATION OF SCABBING IN STEEL CASTINGS AND TECHNIQUE TO PREVENT THIS PHENOMENON 67-03 M06-65817
CASTING PIT OPERATIONS AT WHYALLA WORKS 67-04 M04-66113
LUBRICATION IN THE CONTINUOUS CASTING PROCESS 67-04 M04-67752
THE EFFECT OF MOLD MATERIAL, MOLDS AND THE METAL ON THE PENETRATION OF STEEL CASTINGS 67-04 M06-66582
PENETRATION PHENOMENA IN STEEL CASTING WITH VARIOUS MIXTURES OF MOLD SANDS 67-04 M06-66583
COMPUTERIZED CALCULATION OF OPERATING CONDITIONS IN CONTINUOUS CASTING MACHINES 67-06 M04-71330
MODEL EXPERIMENT ON THE TOP POURING OF STEEL INGOTS 67-06 M04-72279
INGOT STEEL WITH FREE GRAPHITE IN THE METALLIC BASE 67-06 M06-70210
THE LIQUID PRESSING OF METALLIC MATERIALS 67-06 M06-71273
SURFACE COLOR OF THE MOLD INFLUENCES SCABBING 67-06 M06-71675
ANALYSIS OF THE SOLIDIFICATION PROCESS OF STEEL IN CONTINUOUS CASTING BY ANALOG SIMULATOR. PT. 2. STUDY OF CONTINUOUS CASTING 67-07 M04-72442
ANALOG SIMULATOR FOR THE ANALYSIS OF THE PROCESS OF SOLIDIFICATION OF STEEL IN CONTINUOUS CASTING. PT. 1. STUDY OF CONTINUOUS CASTING 67-07 M04-72571
ELECTRIC FURNACE PRODUCTIVITY 67-07 M04-72899
THE BSR PROCESS AS A SUPPLEMENT TO CONTINUOUS CASTING OF STEEL 67-07 M04-73119
DIMENSIONAL DISTORTION IN STEEL CASTINGS 67-08 M06-74618
STUDY ON PRODUCTION OF SOUND INGOT BY ACCELERATED SOLIDIFICATION 67-08 M06-75153
LOW LEVEL, STRAIGHT MOLD CONTINUOUS CASTING OF STEEL 67-09 M04-76667
THE RELATIONSHIP BETWEEN BILLET MELTING TECHNIQUE AND SURFACE QUALITY IN INGOT CASTING WITH A 200-KW MULTICHAMBER, ELECTRON BEAM FURNACE 67-09 M04-77219
STEEL DEGASSING PLANT FOR SOUTH AFRICA 67-09 M06-76666
SOME ASPECTS OF THE PROBLEMS POSED BY THE USE OF CEMENT-BONDED SAND IN STEEL FOUNDRIES 67-09 M06-77836
METHODS OF TREATING METAL AND STEEL MELTS BY VIBRATION WITH EMPHASIS ON GRAIN REFINEMENT BY TREATING WITH ULTRASONIC WAVES DURING SOLIDIFICATION 67-09 M06-77845
THE ROLLING OF TUBES AND SHAPES FROM CONTINUOUSLY CAST STEELS 67-10 M04-78653
PRODUCTION AND CONTINUOUS CASTING OF BOILER PLATE STEEL 67-10 M04-79665
CAST STRUCTURAL PARTS PRODUCED BY FULL-FORM CASTING 67-10 M06-78643
THE PRESSURE DIE CASTING OF IRONS AND STEELS 67-10 M06-79293
CONTINUOUS CASTING PLANT AT MURORAN WORKS 67-11 M04-80501
THIN-WALLED TUBULAR MOLDS FOR THE CONTINUOUS CASTING OF STEEL 67-11 M04-80847
HOT TEARING OF STEEL INGOTS 67-12 M04-83570
PROBLEMS OF POROSITY IN CAST STEEL. PT. 3 67-12 M06-83086
PROBLEMS OF POROSITY IN CAST STEEL 67-12 M06-83589
STEELS, CASTINGS
INFLUENCE OF WALL THICKNESS ON PRIMARY STRUCTURE AND MECHANICAL PROPERTIES OF UNALLOYED AND 235
ALLOYED STEEL CASTINGS 67-08 M17-75030
PROBLEMS OF POROSITY IN CAST STEEL. PT. 2 67-12 M06-83588
STEELS, CHEMICAL ANALYSIS
PROBLEMS OF VACUUM-TYPE-PHOTOELECTRIC EMISSION SPECTROSCOPIC ANALYSIS 67-01 M19-57913
ELIMINATION OF HYDROGEN FROM ACID OPEN HEARTH STEELS 67-03 M04-65510
SPECTRAL ANALYSIS OF OXIDE INCLUSIONS, PRECIPITATED FROM STEEL 67-04 M19-67084
EVALUATING THE SENSITIVITY AND ACCURACY OF THE DETERMINATION OF THE TOTAL OXYGEN IN METALS BY THE NEUTRON ACTIVATION METHOD 67-04 M19-67089
INVESTIGATION OF THE POSSIBILITIES OF INDUSTRIAL USE OF ACTIVATION ANALYSIS TO DETERMINE OXYGEN AND POSSIBLY NITROGEN AND HYDROGEN IN STEEL.

PT. 1 67-04 M19-67216
INVESTIGATION OF THE POSSIBILITIES OF INDUSTRIAL USE OF ACTIVATION ANALYSIS TO DETERMINE OXYGEN AND POSSIBLY NITROGEN AND HYDROGEN IN STEELS. PT. 2 67-04 M19-67217
THE DETERMINATION OF OXYGEN IN METALS, PARTICULARLY IN STEEL, BY ACTIVATION ANALYSIS WITH 14.5 MEV NEUTRONS 67-04 M19-67251
CONTRIBUTION TO THE PROBLEM OF DETERMINING THE FREE AND THE COMBINED NITROGEN IN STEELS 67-06 M04-71752
SPECTROGRAPHIC DETERMINATION OF LOW BORON CONTENTS IN CAST IRON AND STEEL 67-07 M19-72717
THE USE OF HIGH-TEMPERATURE PREMIXED FLAMES IN ATOMIC ABSORPTION SPECTROSCOPY APPLIED TO STEEL WORKS ANALYSES 67-08 M19-76193
SIMULTANEOUS DETERMINATION OF PB AND ZN IN IRON, STEEL AND IRON ORES BY THE D-C POLAROGRAPHIC METHOD 67-09 M19-77247
THE WOSTHOFF AUTOMATIC CARBON DETERMINATION APPARATUS 67-09 M19-77705
SPECTRAL ANALYSIS OF OXIDE INCLUSIONS SEPARATED FROM STEEL 67-09 M19-78065
ESTIMATE OF THE SENSITIVITY AND ACCURACY OF DETERMINING THE TOTAL AMOUNT OF OXYGEN IN METALS BY THE NEUTRON ACTIVATION METHOD 67-09 M19-78069
SIMULTANEOUS SAMPLING FOR THE SPECTROMETRIC AND GAS-ANALYTICAL ANALYSIS OF STEEL 67-09 M19-78195
RAPID ANALYTICAL TECHNIQUE FOR STEELMAKING USING PIN SAMPLES AND OPTICAL EMISSION VACUUM DIRECT READING SPECTROMETER 67-10 M19-79439
CONTRIBUTION TO THE SPECTROGRAPHIC DETERMINATION OF SMALL CONCENTRATIONS OF ALUMINUM IN STEEL 67-10 M19-79726
VACUUM FUSION-MASS SPECTROMETRIC ANALYSIS OF GASES IN IRON AND STEEL. PT. 1. AN APPARATUS FOR THE ANALYSIS OF MICROAMOUNTS OF GASES IN IRON AND STEEL BY VACUUM FUSION-MASS SPECTROMETRY 67-11 M04-81067
SPECTROGRAPHIC CONTENTS OF CR AND NI IN STEELS DETERMINED BY LASER EXCITATION 67-11 M19-80250

STEELS, CHIPS
THERMAL CONDUCTIVITY OF BRIQUETTED STEEL CHIPS 67-01 M04-57330

STEELS, CLADDING
RESEARCH INTO THE STRUCTURE AND PROPERTIES OF COPPER-CLAD STEEL WHEN IT IS ELONGATED AT A HIGH TEMPERATURE IN A VACUUM 67-09 M12-76559
THE ADHESION AND BONDING OF CAOUTCHOUC-ELASTIC MATERIALS WITH SPECIAL REGARD TO RUBBER-METAL BONDING 67-11 M12-80496

STEELS, CLEANING
MODERN CASTINGS CLEANING EQUIPMENT 67-04 M12-67330
PICKLING OF SHEETS FOR SUBSEQUENT LACQUERING, BASE ENAMELING AND DIRECT-WIRE ENAMELING 67-05 M12-69341
IMPROVED EFFICIENCY IN ACID PICKLING 67-05 M12-69433
GAS-FLAME CLEANING OF STEEL SURFACE 67-06 M12-70394
COLD-ROLLING WITHOUT ACID PICKLING 67-06 M12-71581
ELECTROLYTIC DESCALING IN ALKALI SOLUTIONS 67-06 M12-71811
AUTOMATICALLY CONTROLLED EQUIPMENT FOR THE PICKLING OF TUBES 67-07 M12-72565
METHOD OF MEASURING THE EFFECTIVENESS OF INHIBITORS FOR CONTINUOUS PICKLING PLANT BATHS 67-07 M12-72714
PRETREATMENT OF METAL SURFACES BY CHEMICALS--COLD DEGREASING OF STEEL 67-08 M12-74596
THE SURFACE FLAME CLEANING OF STEEL 67-09 M12-78094
INFLUENCE OF VARIABLES IN ULTRASONIC CLEANING 67-10 M12-79001
PICKLING OF HOT ROLLED STEEL WITH HYDROCHLORIC ACID AND THE TOTAL REGENERATION OF PICKLING BATHS WITH HYDROCHLORIC ACID AS WELL AS THE PART PLAYED BY INHIBITORS 67-12 M07-82295

STEELS, COATING
NEW METALLIC COATINGS AND TREATMENTS FOR CONTAINER STEEL SURFACES 67-01 M12-57547
CONTINUOUS GALVANIZING LINE IN WAKAYAMA STEEL WORKS 67-01 M12-58252
CONTINUOUS COLOR COATING LINE IN IGETA COLOR COATED SHEET CO., LTD 67-01 M12-58253
NEW BONDERIZED STEEL SHEET 67-01 M12-58555
PLATED NICKEL SHAPES UP 67-01 M12-58724
ELECTROCOATING STEEL PIPE WITH DRY RESIN POWDER 67-03 M12-65487
IMPREGNATION, SEALING AND COATING WITH EPOXY RESINS 67-03 M12-65569
HOW TO SELECT ZINC-COATED STEELS FOR PAINTING 67-03 M12-65665
NICKEL-COATED STEEL STRIP 67-03 M12-65667
TITANIUM-CLAD STEEL BY EXPLOSION WELDING 67-04 M12-66134
PRECOATED STRIP 67-04 M12-66137
LEAD PHOSPHATE PROTECTS STEEL AND PRESERVES ITS WELDABILITY 67-04 M12-66503
CORROSION PREVENTION BY ZINC-RICH PAINT SYSTEMS 67-04 M12-66659
THE CASE FOR COPPER COATED STEEL STRIP 67-04 M12-66679
BRONZE COATED LINK PINS--MANDREL MECHANISM MADE STRONGER WITHOUT SACRIFICING EXPANSION RANGE 67-04 M12-67793
FLEXIBLE PERFORMANCE PLATER 67-04 M12-68165
ADVANTAGES OF NI COATINGS 67-05 M12-69191
PAINTING GALVANIZED STEEL 67-06 M12-70690
ON ALUMINUM COATING. PT. 2. COATING OF SHEET STEEL WITH METAL POWDER 67-06 M12-71293
THE COATING ON IRON AND STEEL WITH TITANIUM TETRACHLORIDE 67-06 M12-71294
TUBES VITREOUS ENAMELLED INSIDE OR OUT 67-06 M12-71901
PROTECTION OF FERROUS CONSTRUCTION AGAINST CORROSION 67-06 M18-71730
PROTECTION OF IRON AND STEEL STRUCTURES FROM CORROSION 67-06 M18-72257
FLUID POWER SYSTEMS FOR STEEL STRIP LINE 67-06 M20-71567
NINE STEPS TO A MORE DURABLE PAINT FINISH 67-07 M12-72403
EVALUATION OF ZINC SURFACES FOR COATING INDUSTRIAL PRODUCTION LINE PRODUCTS 67-07 M12-72992
LOCALLY-MADE CONTINUOUSLY-COATED STEEL NOW AVAILABLE TO INDUSTRY 67-07 M12-73731
WHITE ENAMELING OF SHEET STEEL 67-07 M12-73891
PLASTIC-COATED STEELS IN THE CHEMICAL INDUSTRY 67-07 M12-73897
ENAMELLED STEELS--THEIR PROPERTIES AND APPLICATION 67-07 M12-74018
METAL BUILDING MAKERS EYE 20-YEAR COATING 67-07 M12-74299
SOME PROMISING PROCESSES TO PROTECT SINTERED IRON AND STEEL AGAINST CORROSION 67-07 M18-73230
HOT DIP GALVANIZING AS CORROSION PROTECTION 67-07 M18-73232
THE CORROSION PROTECTION OF STEEL STRUCTURES BY SPRAY GALVANIZING 67-07 M18-73233
CORROSION BEHAVIOR OF ZINC DUST-CONTAINING PAINTS AND OF HOT DIP GALVANIZED COATINGS IN INDUSTRIAL ATMOSPHERES 67-07 M18-73236
EPOXY ON UNDERGROUND PIPE SUBVERTS CORROSION 67-08 M12-74363
FIVE YEAR TEST RESULTS--AISI RESEARCH PROJECT ON PAINTABILITY OF GALVANIZED STEEL 67-08 M12-74475
NOMOGRAPHS FOR LACQUERING THE INTERIOR OF STEEL PIPES 67-08 M12-74931
VERSATILE COIL COATING LINE FOR SPAIN 67-08 M12-74949
COIL-COATING LINE IN SPAIN 67-08 M12-75135
EFFECT OF MANUFACTURING CONDITIONS ON THE APPLICABILITY OF ZINC-COATED STEEL WIRE 67-08 M12-75394
PAINTING GALVANIZED STEEL FRAMES 67-08 M12-75397
THE LARGE-SCALE DEPOSITION OF PROTECTIVE LAYERS ON STEEL STRIP BY VACUUM DEPOSITION 67-08 M12-75671
PLASTIC-COATED STEEL STRIP AND SHEET 67-08 M12-75679
THE THERMAL AND PHYSICAL CONDITIONS FOR THE PLASMA JET DEPOSITION OF COPPER AND BRONZE ON STEEL 67-08 M12-75914
HIGH-SPEED BARREL ZINC PLATING 67-08 M12-76046
CORROSION-RESISTANT COATINGS BY PHYSICAL VAPOR PLATING 67-08 M12-76056
LIQUID POLYETHLENE DISPERSIONS COAT STEEL, ALUMINUM, COPPER 67-08 M12-76064
NICKEL SLURRY COATS STEEL STRIP 67-08 M12-76179

STEELS

CONTINUUUS STRIP COATING LINE IN SPAIN 67-08 M12-76195
BATHING METAL WITH ALLOY COATINGS 67-09 M12-76448
PLATING LEAD ON STEEL 67-09 M12-76480
HOMOGENEOUS LEAD COATINGS ON STEEL 67-09 M12-76615
PROGRESS WITH ZINC-COATED STEEL 67-09 M12-76632
SURFACE PROPERTIES OF VARIOUS ELECTROLYTIC CHROMIC ACID TREATED STEEL SHEETS 67-09 M12-77334
SURFACE PREPARATION BY GRIT BLASTING 67-09 M12-77643
THE SENDZIMIR PROCESS APPLIED TO WIRE GALVANIZING 67-09 M12-77648
THE INFLUENCE OF STEEL AND OF GALVANIZING CONDITIONS ON THE PROPERTIES OF GALVANIZED SHEET AND STRIP 67-09 M12-77650
GALVANIZING BEHAVIOUR OF COMMERCIAL STEEL SHEET MATERIALS 67-09 M12-77654
EXPERIMENTAL RESULTS ON VAPOR DEPOSITION OF ALUMINUM OXIDE ON STEEL 67-09 M12-78027
SOME NEW APPROACHES TO THE USE OF LEAD IN THE CONSTRUCTION OF CHEMICAL PIPES AND CONTAINERS 67-09 M20-76614
PROTECTIVE COATINGS FOR GALVANIZED STEEL 67-10 M12-78525
THE HOT DIP GALVANIZING INDUSTRY 67-10 M12-78558
STANDARD MILL IS MODIFIED TO PRODUCE GALVANIZED TUBING 67-10 M12-78579
A PHOSPHATE COATING THAT CAN BE WELDED 67-10 M12-78635
THE BUBBLE STRUCTURE OF GROUND COAT ENAMELLED SHEET STEELS 67-10 M12-79584
STUDIES ON THICKNESS OF HOT DIPPED ZINC COATING. PT. 2 67-10 M12-79605
EFFECTS OF THE TYPE OF CURRENT WAVES AND ADDITION AGENTS ON THE FORMATION OF ELECTRODEPOSITED NUCLEI. PT. 2 67-10 M12-79607
THE DETERMINATION OF THE RESIDUAL STRAIN IN SOME VITREOUS ENAMEL COATINGS 67-10 M17-78453
MICROCRACKED CHROMIUM PLATE IMPROVES CORROSION RESISTANCE 67-10 M18-78576
A CRITICAL SURVEY OF PHOSPHATING PROCESSES 67-11 M12-80664
NEW APPLICATIONS OF HOT GALVANIZED STEEL SHEET 67-11 M20-80299
ZINC ELECTROPLATING 67-12 M12-82505
THE INFLUENCE OF INTERNAL STRESS ON CORROSION FATIGUE IN NICKEL-PLATED STEEL 67-12 M18-82606

STEELS, COMPOSITE MATERIALS
THE DIFFUSION OF C IN COMPOSITE STEELS 67-02 M14-60207
THE EFFECT OF RESIDUAL STRESS AND COLD WORK ON THE LOAD DEFORMATION CURVE OF ALUMINUM MATRIX STEEL FIBER COMPOSITES 67-07 M09-73359
PLASTIC-ALUMINIUM COMPOSITES 67-08 M11-76183
STELVETITE, A NEW COMPOSITE MATERIAL WITH A BRIGHT FUTURE 67-10 M20-79803
AN INVESTIGATION OF THE FATIGUE BEHAVIOR OF TUNGSTEN-REINFORCED AND STEEL- REINFORCED SILVER COMPOSITES 67-12 M17-82974

STEELS, CORROSION
IRON ALLOYS WITH ALUMINUM AND COPPER. PT. 1. EFFECT OF COPPER ON THE HIGH-TEMPERATURE CORROSION RESISTANCE OF CAST STEELS AND HIGH-ALUMINUM CAST IRONS 67-02 M18-58984
METALLIC CORROSION AND POSSIBLE CORROSION PROTECTIO 67-02 M18-59815
SOME ASPECTS OF STRESS-CORROSION CRACK PROPAGATION IN MILD STEEL 67-04 M18-66692
CHROMIZING OF MACHINE COMPONENTS OF STEEL AND CAST IRON 67-05 M12-69070
CORROSION PROTECTION THROUGH BLUEING AND BLACKING 67-05 M18-69104
CONTRIBUTION TO THE INVESTIGATION OF CERTAIN VARIABLES THAT AFFECT THE CATHODIC PROTECTION OF STEEL 67-06 M18-71815
CORROSION CONTROL AT THE CAPE 67-06 M18-72336
STUDIES ON PROTECTIVE METHODS OF STEEL STRUCTURES AT HARBORS. PROTECTIVE EFFECT OF ZINC COATING ON STEEL BELOW SEA WATER LEVEL. PT. 2 67-08 M18-74679
HOW METALS RESIST SEA WATER 67-08 M18-74741
CORROSION BY MGCL2-BASED DE-ICING MEDIA 67-08 M18-74955
RESISTANCE OF HEATING ELEMENTS TO ATMOSPHERES CONTAINING CARBON 67-08 M18-74973
QUATERNARY AMMONIUM INHIBITORS OF ACID CORROSION, AND THEIR ADSORPTION AT METAL SURFACES 67-08 M18-75549
ANTICORROSION PROTECTION OF STEEL TUBES BY VARNISH COATINGS 67-08 M18-76280
NEW ACCELERATED METHODS FOR TESTING THE CORROSION RESISTANCE OF SURFACE-PROTECTED STEEL SHEET. PT. 2. CORROSION TESTING OF PHOSPHATIZED PAINTED STEEL USING THE IMMERSION PROCESS 67-09 M18-77193
INTERACTION BETWEEN SOLIDIFYING METAL AND MOULD 67-09 M18-78081
VITREOUS ENAMELLING TREBLES HEATER-TUBE LIFE 67-10 M12-79787
SOME CORROSION PROBLEMS IN CONNECTION WITH THE WELDING OF STEEL 67-10 M18-78458
THE STRESS CORROSION FRACTURE OF HEAT TREATED STEEL EXPOSED TO NH4SCN SOLUTIONS 67-10 M18-78920
MICROSCOPIC AND ELECTRON FRACTOGRAPHIC STUDY OF TRACES OF THE INITIAL CAVITATION EFFECTS ON METAL SURFACES 67-10 M18-79221
ANTICORROSION PROTECTION OF STEEL TUBES BY COATINGS OF LACQUER 67-10 M18-79273
EFFECT OF ALLOYING ELEMENTS IN STEEL ON THE CORROSION BEHAVIOR IN NEUTRAL SOLUTIONS. FUNDAMENTAL STUDIES OF THE ATMOSPHERIC CORROSION OF LOW-ALLOY STEELS 67-11 M18-80484
MEASUREMENT OF ATMOSPHERIC FACTORS AFFECTING THE CORROSION OF METALS 67-11 M18-80689
SPECIAL PROTECTION OF HIGHLY-HEAT RESISTANT MATERIALS 67-11 M18-80698
CORROSION AND CORROSION PRODUCT DEPOSITION IN STEEL-COPPER SYSTEMS WITH CIRCULATING HOT WATER CONTAINING VARIOUS INHIBITORS 67-11 M18-80713
EFFECT OF CNS-IONS ON THE ANODIC BEHAVIOR OF KH18N10T STEEL IN SULFURIC ACID AND SOME POSSIBILITIES OF MODELING SYSTEMS WITH A PASSIVATING ANODE 67-11 M18-81281
CORROSION OF ALUMINUM ALLOYS IN CONTACT WITH STEELS AND LININGS OF PETROLEUM VESSELS 67-11 M18-81284
FUNDAMENTAL ASPECTS OF THE DEVELOPMENT OF CORROSION PROOF ALLOYS 67-12 M18-82299
PROTECTION OF METALS WITH ELECTRIC CURRENTS 67-12 M18-82351
METALLIZED ZN COATINGS FOR CORROSION PROTECTION OF STEEL IN SEA WATER 67-12 M18-82353
FUNDAMENTAL EXPERIMENT ON SOILS. PT. 1. STUDIES ON SOIL CORROSION OF METALLIC MATERIALS 67-12 M18-82892

STEELS, CORROSION PREVENTION
DEVELOPMENTS IN PRETREATMENT AND FINISHING OF ZINC-COATED PRODUCTS 67-08 M12-74396

STEELS, CRACKING /FRACTURING/
DEFECTS IN STEEL PRODUCTS. RATIONAL APPROACH TO ANALYSIS OF DEFECTS IN FINISHED PRODUCTS --DEFECTOLOGY-- 67-07 M17-72901

STEELS, CRYSTAL LATTICES
THE FACTORS DETERMINING THE FREQUENCY OF OCCURRENCE OF ANNEALING TWINS 67-08 M13-75333

STEELS, CUTTING
FLAME CUTTING TO TIGHT SPECS 67-03 M08-65037
CONSIDERATIONS RELATING TO THE QUALITY OF THE FLAME CUT SURFACE OF STEEL PLATE 67-04 M08-66726
BEHAVIOR OF ARC DURING PLASMA CUTTING OF METAL 67-04 M11-67004
DEVICE FOR OXYGEN FLAME PLASMA-ARC CUTTING OF STEELS WITH A TUNGSTEN ELECTRODE 67-06 M11-70145
COMPACT SHEARING LINE REDUCES SPACE NEEDS 67-07 M20-72624
ARC BEHAVIOR IN THE PLASMA CUTTING OF METALS 67-08 M11-74763
INVESTIGATION OF THE VARIOUS PARAMETERS INFLUENCING THE MACHINING OF A SHAPED GROOVE BY FLAME CUTTING 67-09 M08-77977

STEELS, DEFECTS
MICROSCOPIC OBSERVATIONS OF HYDROGEN EVOLUTION FROM EVOLVED FROM THE STEEL SURFACE THE STEEL SURFACE. PT. 2. OBSERVATION OF HYDROGEN 67-09 M13-77256

STEELS, DEGASSING
THE CASE FOR VACUUM DEGASSING 67-06 M06-72006

STEELS, DIFFRACTION
DIFFRACTION PHOTOGRAPHY PICKS UP SPEED 67-04 M13-66108

STEELS, DIFFUSION
DIFFUSION OF MASSIVE CARBIDES IN BEARING STEELS BY SOAKING 67-04 M14-67183
ESTIMATION OF DIFFUSIVITY COEFFICIENTS FOR HYDROGEN IN FERROUS MATERIALS 67-09 M14-78153
THE STATE OF HYDROGEN IN STEEL 67-10 M14-78746
STEELS, ELECTRON DIFFRACTION
AN ELECTRON DIFFRACTION STUDY OF PEARLITE. PT. 2 67-06 M13-71825
STEELS, EXTRUSION
THE PRODUCTION OF STEEL PARTS WITH LARGE HEADS BY COLD DEFORMATION 67-05 M07-68565
A NEW LUBRICANT AND PROTECTIVE AGENT FOR USE ON STEEL ROD AND TUBE EXTRUSION PRESSES 67-05 M07-69432
PROBLEMS OF EXTRUSION TECHNOLOGY 67-08 M07-75791
STEEL EXTRUSION USING GLASS AS A LUBRICANT. --UGINE-SEJOURNET PROCESS-- 67-09 M07-77154
THE ROLE OF LUBRICANTS IN THE HOT EXTRUSION OF STEELS 67-10 M07-79725
STEELS, FASTENERS,
THE BOLTING OF ALUMINIUM 67-01 M11-58298
STEELS, FIBER METALLURGY
INFLUENCE OF CONSTITUENT PROPERTIES UPON THE STRUCTURAL EFFICIENCY OF FIBROUS COMPOSITE SHELLS 67-01 M17-58521
STEELS, FORGING
THE CALCULATION OF FORCES REQUIRED FOR DIE FORGING ON CRANK PRESSES AND OF RAM WEIGHTS IN FORGING 67-02 M07-60021
FORGING AHEAD WITH METAL FLOW 67-02 M07-60932
FUNDAMENTAL STUDY OF METAL FLOW IN STEEL FORGING 67-06 M07-70244
FUNDAMENTAL STUDY OF METAL FLOW IN STEEL FORGING. PT. 2 67-07 M07-73837
AUTOMATIC DIE LUBRICATION IN HOT AND COLD FORGING 67-09 M07-78167
REHEATING OF STEELS IN FORGE FURNACES WITH TURNING MECHANISM 67-11 M10-80499
CLOSED-DIE FORGINGS. PT. 3 67-12 M07-81946
PREDICTION OF EXTRUSION PRESSURES IN THE COLD FORGING OF STEEL 67-12 M07-82767
STEELS, FORMING
FORM OF THE SURFACES OF THE GROOVE AND OF THE WORKING CONE FOR COLD ROLLED FORMING PIPES 67-06 M08-71399
THE COOKSON METHOD OF COLD ROLL-FORMING 67-06 M08-72049
FORMING, DRAWING AND BLANKING PRODUCTION UNDER HIGH PRESSURE 67-07 M08-73220
DEEP FORMING PROBLEMS. TRY A RUBBER PUNCH 67-08 M07-74725
INTENSE RESEARCH ACHIEVES BIG ADVANCE IN TUBING 67-10 M07-78772
STEELS, GALVANIZING
PROGRESS WITH ZINC-COATED STEEL 67-08 M12-74950
STEELS, HEAT TREATMENT
HEAT TREATMENT OF LARGE PLATES OF WAKAYAMA STEEL WORKS 67-01 M10-58251
PROGRESS IN STEEL HEAT TREATMENT IN ENGINEERING 67-02 M10-60289
GETTING THE MOST OUT OF CARBONITRIDING 67-03 M10-65801
HEAT-TREATMENT OF INVESTMENT CASTINGS 67-05 M10-68931
STEEL PLATE QUENCHING AND TEMPERING PLANT IN INDIANA 67-06 M10-70025
A MASS PRODUCTION HEAT TREAT SHOP 67-06 M10-71903
CONTROLLED ATMOSPHERES FOR THE HEAT TREATMENT OF METALS 67-06 M10-71937
SURFACE TREATMENT OF ENGINEERING COMPONENTS 67-06 M10-71938
ASPECTS OF QUALITY CONTROL IN HEAT TREATMENT 67-06 M10-71939
THE INDUCTION HEATING OF STEEL PARTS 67-07 M10-72432
HEAT TREATMENT OF RAILWAY ROLLING STOCK COMPONENTS 67-07 M10-72905
STRESS RELIEVING GOES UNDERGROUND 67-07 M10-73694
SOME CONSIDERATIONS ON GAS DRIP CARBURIZING 67-07 M10-74096
BEHAVIOR OF CARBIDE AND GRAPHITE IN STEEL DURING GRAPHITIZATION 67-08 M10-74937
FROM ROLL-HARDENING TO THE 40-MVA RESISTANCE HEATING OF STEEL AND ITS AUSTENITE GRAIN SIZE 67-08 M10-75105
THE SUITABILITY OF THE END QUENCH TEST AND THE TIME-TEMPERATURE-TRANSFORMATION DIAGRAM FOR THE PREDICTION OF THE HARDENING OF ROUND STEEL BARS 67-08 M10-75590
INFLUENCE OF ULTRASOUND ON THE NITRIDING AND DENITRIDING OF STEEL 67-08 M10-75815
CASE HARDENING PROCESS RESISTS SCUFFING 67-08 M10-75921
GRAIN REFINEMENT IN STEEL CASTINGS 67-09 M06-76725
EQUIPMENT FOR INDUCTION HARDENING 67-09 M10-76467
THE HEATING AND COOLING OF OPEN COILS IN SINGLE-PILE BELL FURNACES 67-09 M10-77346
DEVELOPMENT IN EQUIPMENT AND PRACTICES FOR QUENCHING STEEL PLATES. PT. 2 67-09 M10-77745
OPEN-COIL ANNEALING 67-09 M10-77840
INDUCTION HARDENING 67-09 M10-78064
DENITRIDING OF STEEL COILS FOR DEEP DRAWING IN REACTIVE ATMOSPHERES. RELATIONSHIP BETWEEN RESIDUAL NITROGEN AND AGING 67-09 M10-78294
EFFECT OF BAINITE ADDITIONS ON THE TEMPERING OF STEEL 67-10 M10-78609
FASTER COIL ANNEALING 67-10 M10-79499
RESISTANCE HEATING 67-10 M10-79790
CONTROLLED COOLING AND HEAT TREATMENT OF MASSIVE STEEL CASTINGS IN THE MOLD 67-11 M10-80573
COKE-OVEN GAS- AND NATURAL GAS-FIRED INDUSTRIAL FURNACES OF MORE RECENT DESIGN FOR THE DIRECT, SCALE-FREE HEATING OF STEEL 67-12 M10-81755
STEELS, HEATING
OSCILLATING-ROLLER FURNACE BOTTOM 67-01 M07-57138
USE OF RECUPERATORS IN HOLDING FURNACES 67-06 M10-71392
STEELS, HOT WORKING
SEAMY DEFECTS IN HOT STRIP FROM CAPPED STEEL 67-06 M07-72277
STEELS, IMPACT TESTS
NATURE OF THE SHOCK ZONE IN IRON AND STEEL 67-01 M17-57354
STEELS, INCLUSIONS
NONMETALLIC IMPURITIES IN STEEL 67-07 M01-73189
THE SEPARATION AND ISOLATION OF NONMETALLIC INCLUSIONS 67-07 M13-73190
STEELS, INGOTS
TEMPERATURE DISTRIBUTIONS IN SOLIDIFYING INGOT AND RESIDUAL STRESSES 67-01 M17-57910
IDENTIFICATION AND CONTROL OF DEFECTS IN STEEL INGOTS USED FOR RAILROAD TRACKS 67-09 M19-78025
STEELS, JOINING
METALS JOINING 67-06 M11-71821
STEELS, MACHINING
DUPLICATING THE GRAPHITE ELECTRODE 67-01 M08-58679
GRINDING WITH DIAMONDS--RESEARCH, PRODUCTION RESULTS 67-02 M08-60242
THE TEMPERATURE DISTRIBUTION IN THE TOOL-CHIP CONTACT ZONE WHEN TURNING STEELS WITH CARBIDE TOOLS 67-03 M08-65989
RELATIONSHIP BETWEEN CUTTING FORCES, TEMPERATURES, BUILT-UP EDGE AND SURFACE FINISH 67-03 M08-65992
DRILL HOLE QUALITY IN DRILLING WITH TWIST DRILLS 67-06 M08-70044
DIAMOND TOOLS IMPROVE HONING 67-06 M08-70844
THE CHIP-FORMING FINISHING OF COLD DEFORMED WORKPIECES 67-06 M08-71208
INVESTIGATIONS ON THE CUTTING POWER AND SURFACE QUALITY IN THE INTERNAL BROACHING OF STEEL 67-06 M08-71804
THE PERFORMANCE OF STATIC PULSE GENERATORS IN THE SPARK-EROSION WORKING OF STEEL 67-07 M08-72431
NC PROFILING MADE FAIL-SAFE 67-07 M08-73444
HIGH-PRODUCTIVITY LINE MACHINES 28,000 VALVES A DAY 67-07 M08-73445
MACHINABILITY OF COMPONENTS FROM DIFFERENT HEATS OF CK STEEL 67-07 M17-72721
WANT FLAT PARTS FASTER. UPGRADE, CUT COSTS WITH GRINDING 67-08 M08-74724
NEW KNOWLEDGE CONCERNING THE FUNCTIONING OF THE FLAME CUTTING PROCESS 67-08 M08-75787
HONING LARGE CYLINDERS 67-08 M08-75944

STEELS

USE OF CERAMIC CUTTING TOOLS 67-10 M08-78852
DIAMOND HONING 67-10 M08-79186
THERMAL COEFFICIENTS AS A MACHINABILITY INDEX 67-11 M08-80539
FOUR RULES FOR INCREASING OUTPUT FROM VERTICAL SPINDLE SURFACE GRINDERS 67-11 M08-80540
THE POLARITY EFFECT IN SPARK EROSION 67-11 M08-80798

STEELS, MAGNETIC PROPERTIES
NONMAGNETIZABLE IRON MATERIALS IN ELECTRICAL TECHNOLOGY 67-05 M20-69105
EFFECT OF MEAN STRESS AND HARDNESS ON MAGNETIZATION INDUCED FROM CYCLIC DEFORMATION 67-09 M15-78046

STEELS, MECHANICAL PROPERTIES
THE FATIGUE BEHAVIOR OF SINTERED MATERIALS. PT. 2 67-01 M17-58230
STATIC AND DYNAMIC STRENGTH AND HARDNESS CONTROL OF LARGE FORGINGS AND STEEL CASTINGS 67-01 M17-58719
IDENTIFICATION OF THE MECHANISM OF METAL FRACTURES BY ELECTRON MICROFRACTOGRAPHY 67-02 M17-59715
THE FREEZE-CRACKING RESISTANCE OF DISTRIBUTING PIPES 67-02 M17-59721
RESEARCH INTO THE FATIGUE STRENGTH OF BUTT WELDED JOINTS BETWEEN STEEL TUBES 67-02 M17-59794
THE MECHANICS OF BRITTLE FRACTURE 67-02 M17-60803
MOLYBDENUM DISULPHIDE DEPOSITS--THEIR FORMATION AND CHARACTERISTICS ON STEEL BALLS 67-03 M17-65600
STUDY ON THE EVALUATION OF HOT WORKABILITY OF STEELS BY HOT TORSION TESTS 67-04 M08-67184
A METHOD OF DETERMINING PLASTIC ANISOTROPY OF SHEET METAL 67-04 M17-67091
STRENGTHENING MECHANISMS IN STEELS 67-05 M17-69712
ESTABLISHING THE RELATIONSHIP BETWEEN THE TRUE STRAIN AND THE NECKING OF TENSILE TEST SPECIMENS 67-06 M17-70262
SHEARING FORCE MEASUREMENTS ON A MECHANICALLY WORKING 2000-TON INGOT-SLAB SHEAR 67-06 M17-71703
SPALLATION IN 4340 STEEL 67-06 M17-71717
EFFECT OF NON-METALLIC INCLUSIONS ON THE FATIGUE OF BEARING STEEL 67-06 M17-72295
EFFECT OF RATIO OF REDUCTION BY ROLLING ON THE MECHANICAL PROPERTIES OF STEEL PLATE PRODUCED FROM CONTINUOUS-CAST SECTIONS 67-07 M17-72555
FATIGUE OF STEEL IN RELATION TO THE NONMETALLIC INCLUSION CONTENT. PT. 2. RELATIONSHIP BETWEEN FATIGUE OF STEEL AND INCLUSIONS 67-07 M17-72556
EMBRITTLEMENT OF STEEL. PT. 3 67-07 M17-72668
WEAR-RESISTING CLAD PLATE AND ITS USE IN THE PRODUCTION OF LARGE-DIAMETER TUBE 67-07 M17-73023
FUNDAMENTAL INVESTIGATIONS INTO EXPLOSIVE FORMING AT MAXIMUM STRAIN RATES 67-07 M17-73026
THE BRITTLENESS OF METALLIC MATERIALS UNDER TENSION STRESSES 67-07 M17-73074
THE EFFECT OF NONMETALLIC INCLUSIONS ON CERTAIN MATERIAL PROPERTIES OF STEEL 67-07 M17-73194
FATIGUE AS A DESIGN CRITERION 67-07 M17-73216
FABRICATING PROPERTIES OF GALVANIZED SHEETS 67-07 M17-73235
EFFECT OF STRUCTURE AND CHEMICAL COMPOSITION ON THE MECHANICAL PROPERTIES OF HEAT TREATED UNALLOYED STRIP STEELS 67-07 M17-73287
PRESENT STATE OF THE DETERMINATION OF STRESSES BY X-RAY INVESTIGATION 67-07 M17-73291
THEORETICAL AND PRACTICAL ASPECTS OF THE ELIMINATION OF HYDROGEN FLOCKING IN STEEL 67-07 M17-74108
FRACTURE OF STRUCTURAL MATERIALS 67-07 M17-74129
THE FATIGUE PROPERTIES OF SINTERED IRON AND STEEL 67-08 M09-75386
METAL-CORED STEEL WIRE ROPE 67-08 M17-73739
CRACKING OF A PRESSURE VESSEL DUE TO PENETRATION BY SOLDER 67-08 M17-74503
FAILURE FROM INTERNAL, LAMINAR DEFECTS 67-08 M17-74504
BRITTLE FAILURE OF A STEEL SCAFFOLD TUBE 67-08 M17-74506
YIELDING AND FRACTURE IN SOME BODY-CENTERED CUBIC METALS 67-08 M17-74517
MECHANICAL CHANGES IN THE SURFACE OF SPOT WELDED DEEPDRAWN STEEL 67-08 M17-74558
THE FATIGUE FACTOR IN ENGINEERING DESIGN 67-08 M17-75613
FAULTS IN DESIGN REVEALED BY SERVICE FAILURES. PT. 1 67-08 M17-75614
FAULTS IN DESIGN REVEALED BY SERVICE FAILURES. PT. 2 67-08 M17-75615
MEASUREMENT OF ELASTIC-PLASTIC STRESS WAVES IN STEEL TARGETS UNDER SHORT-TIME LOAD 67-08 M17-75695
INFLUENCE OF SPECIMEN SIZE ON TENSILE CHARACTERISTICS AND ON TENDENCY TO BRITTLE FRACTURE OF STEEL 67-08 M17-75696
THE EFFECT OF CROSS ROLLING ON THE ANISOTROPIC PROPERTIES OF HOT ROLLED PLATE 67-08 M17-75803
THE VALUE OF THE AGING FACTORS OF IMPACT TEST--TEMPERATURE CURVES ON TEST WIDTHS OF LESS THAN 10 MM --0.4 IN.-- 67-08 M17-75945
TORSION TESTING AS A MEANS OF ASSESSING DUCTILITY AT HIGH TEMPERATURES 67-08 M17-76142
THE PROBLEM OF H2 IN STEELS 67-08 M17-76292
MAKING THE MOST OF STEEL COMPOSITION 67-09 M17-76418
CASTING DESIGN FOR ALLOYED CAST IRONS 67-09 M17-76473
THE STUDY ON SALT BATH NITRIDING FOR STEELS. PT. 2. FATIGUE STRENGTH AND WEAR RESISTANCE 67-09 M17-76685
METHODS FOR CALCULATING MECHANICAL PROPERTIES OF INDUSTRIAL MATERIALS 67-09 M17-77085
BRITTLE STRENGTH OF ELEMENTS OF THICK-WALLED VESSELS OF 22K STEEL AT AXIAL TENSIONS 67-09 M17-77602
BENDING FATIGUE BEHAVIOR OF UNALLOYED STEELS AS A FUNCTION OF THE TEMPERING AND HARDENING TEMPERATURES, LOW-TEMPERATURE TREATMENT AND SURFACE DECARBURIZATION 67-09 M17-77882
THE EFFECT OF RESIDUAL STRESSES ON ALTERNATING FATIGUE BEHAVIOR 67-09 M17-77883
A CRITICAL STUDY OF THE ROBERTSON TEST --CRACK ARREST TEST-- 67-09 M17-78041
EFFECT OF TEMPERATURE AND STRAIN RATE ON HYDROGEN EMBRITTLEMENT OF STEEL 67-09 M17-78155
STUDY ON WARM WORKING. PT. 1. STRENGTHENING MECHANISM BY WARM WORKING OF STEEL 67-09 M17-78212
EFFECT OF STRAIN RATE ON THE DEFORMATION BEHAVIOR OF IRON AND STEEL AT LOW TEMPERATURES 67-09 M17-78214
STRAIN-RATE AND TEMPERATURE DEPENDENCE OF THE FLOW STRESS OF IRON AND STEEL AT LOW TEMPERATURES 67-09 M17-78215
RECENT DEVELOPMENTS IN STEEL WIRE ROPES FOR HOISTING FROM GREAT DEPTHS 67-09 M20-77823
VIBRATION REDUCES METAL TO METAL CONTACT AND CAUSES AN APPARENT REDUCTION IN FRICTION 67-10 M17-78555
THE CLASSIFICATION OF STEELS ACCORDING TO TRANSITION TEMPERATURES AS DETERMINED BY NOTCHED BAR IMPACT TESTS 67-10 M17-79064
NEW ACCURATE PROCEDURE FOR SINGLE SHEAR TESTING OF METALS 67-12 M17-81852
THE EMBRITTLING EFFECT OF SMALL ELASTIC STRESS WAVES ON CRACK TOUGHNESS OF A STRUCTURAL STEEL 67-12 M17-81853
THE IMPORTANCE OF INTERNAL STRESS IN GRAY OR SPHEROIDAL CAST IRON 67-12 M17-82897

STEELS, MELTING
RESEARCH ON TECHNOLOGY FOR PRODUCING STEEL IN ARC FURNACES WITH A PRELIMINARY REDUCING PERIOD 67-04 M04-66903
SOME PROBLEMS IN THE CRYSTALLIZATION OF AN INGOT FROM ELECTROSLAG REMELT. PT. 2 67-06 M04-70275
EFFECT OF FORM ON IRON CHIP BRIQUET STRENGTH 67-07 M02-74050
THE MULTIPLE-CHAMBER ELECTRON BEAM FURNACES OF THE --EAST GERMAN-- HENNINGSDORF WORKS AND THEIR APPLICATIONS 67-07 M03-74273
COMPARATIVE INSPECTION OF THE REMELTING CONDITIONS IN THE VACUUM ARC FURNACE AND THE ELECTRON BEAM MULTICHAMBER FURNACE 67-08 M04-75039
THE PRESENT STATE OF REMELTING HIGH-QUALITY STEEL BY SPECIAL METHODS 67-09 M04-77214
ERECTION AND START UP OF A VACUUM STEEL WORKS FOR

PRODUCTION OF HIGH-QUALITY STEEL AT FREITAL
67-09 M04-77215
INVESTIGATION OF THE TEMPERATURE GRADIENTS IN THE MELTING OF BILLETS IN A MULTICHAMBER ELECTRON BEAM FURNACE BY USE OF A MATHEMATICAL MODEL
67-09 M04-77217
PROCESS CONTROL IN THE REMELTING PROCESS IN A 200-KW ELECTRON BEAM MULTICHAMBER FURNACE
67-09 M04-77218
PRACTICAL EXPERIENCE FROM THE EXPERIMENTAL OPERATION OF A 1-TON ELECTROSLAG REMELTING PLANT
67-09 M04-77224
MODIFICATION OF THE PURITY LEVEL OF ROLLER BEARING STEEL THROUGH REMELTING AND SPECIAL METHODS
67-09 M04-77226
THE MELTING OF STEEL WITH OIL/OXYGEN BURNERS IN A 10-TON CIRCULAR FURNACE 67-09 M04-77498
THE AUSTENITIC GRAIN GROWTH OF SPECIALLY REMELTED STEELS UNDER CERTAIN CONSIDERATIONS OF GROWTH INHIBITING INFLUENCES 67-09 M14-77227
STRENGTH AND TOUGHNESS OF CAST STEEL
67-09 M17-78076
EXPERIMENTAL DETERMINATION OF THE LIQUID MELTING BATH WHEN REMELTING STEEL IN A 200-KW ELECTRON BEAM MULTIPLE-CHAMBER FURNACE
67-10 M04-78315
DETERMINATION OF NITROGEN IN STEELS AND CAST IRONS BY MEANS OF REDUCTIVE MELTING
67-10 M19-78680
CHANGES IN VARIOUS MECHANICAL AND SERVICE PROPERTIES THROUGH REMELTING BY SPECIAL METHODS
67-11 M04-80201
DISSOLUTION OF STEEL CYLINDER INTO LIQUID FE-B ALLOY 67-11 M14-80749

STEELS, METAL FOILS
STEEL FOIL FINDS PACKAGING RECEPTIVE BUT TROUBLESOME 67-07 M20-73799

STEELS, METAL FORMING
SWEDEN INSTALLS BRITISH COIL-COATING AND ROLL FORMING LINE 67-09 M08-76679

STEELS, METAL SCRAP
KINETICS OF MELTING OF STEEL SCRAP IN LARGE OPEN-HEARTH FURNACES 67-04 M04-66205

STEELS, METAL WORKING
PRODUCTION OF TWO-LAYER STEEL SHEET PACKS
67-02 M07-58876
AUTOMATIC GAGE CONTROL --AGC-- OF HOT STRIP MILL AT SAKAI STEEL WORKS 67-02 M07-58939
DEEP DRAWING 67-04 M07-66144
PLANT MODERNIZATION AT GEORGE TURTON PLATTS
67-04 M07-66406
ELECTROCHEMICAL DEBURRING--BAD NEWS FOR TOUGH BURRS
67-04 M08-66580
COLD HEADING SAVES MONEY ON SMALL PARTS
67-04 M08-68103
NEW PRODUCTION LINE TO SATISFY INCREASING DEMAND FOR PYRENES TEST PANELS 67-05 M01-68908
AIR FORCE MATERIALS LABORATORY INTERESTS AND PAST EXPERIENCE IN HIGH-ENERGY-RATE FORMING OF METALS
67-05 M07-68985
THREE-ROLL PIERCER DEVELOPED BY TI
67-05 M07-69435
STUDY ON THE PITTING IN ROLLING CONTACT. PT. 1. ON THE MECHANISM OF THE PITTING OCCURRENCE
67-05 M18-69371
NATIONAL METALLURGICAL LABORATORY, ANNUAL REPORT
67-06 M01-71435
OPTIMUM CONDITIONS FOR COLD ROLLING SHEETS
67-06 M07-70943
NEW METHODS OF FORMING STEEL 67-06 M07-72009
COLD DRAWING OF STEEL PIPE AND TUBING
67-06 M07-72140
METAL SPINNING TOOLS UP FOR SPACE AGE JOBS
67-06 M08-70680
THREE-ROLL PIERCER--NEW SYSTEM OF SEAMLESS STEEL TUBEMAKING 67-07 M07-73621
AN ATTEMPT TO REDUCE PIERCING PRESSURE WITH TRAPPED LUBRICANT 67-08 M07-75575
PUNCHING HARDENED SHEET STEEL 67-08 M08-74557
ELECTROCHEMICAL MILLING SIZES FORGINGS
67-08 M08-75922
METAL TRANSFER AND BUILD UP IN FRICTION AND CUTTING 67-08 M08-76058
CALCULATION OF THE RESISTANCE TO DEFORMATION DURING HOT WORKING 67-09 M07-76693
VARIATIONS IN STEEL TUBE WALL THICKNESS CAUSED BY TWO-ROLL BARREL TYPE PIERCING MILL
67-09 M07-77331
DEEP DRAWING WITH ULTRAHIGH PRESSURE
67-11 M08-80518

STEELS, METALLOGRAPHY
THE USE OF WETTING AGENTS IN METALLOGRAPHIC ETCHANTS 67-07 M13-73125
HOW TO DIFFERENTIATE BETWEEN IRON CARBIDE AND IRON PHOSPHIDE BY ETCHING
67-07 M13-73258
SUPPLEMENT ON THE ELECTROLYTIC ETCHING OF PRIMARY STRUCTURES 67-08 M13-74943

STEELS, MICROSCOPY
THE EXAMINATION OF SURFACES WITH LIGHT, X-RAY AND ELECTRON BEAMS 67-01 M13-58436

STEELS, MICROSTRUCTURE
EXPERIMENTS ON THE SOLIDIFICATION OF STEEL INGOTS BY SCRAPE METHOD 67-02 M06-60618
TYPICAL MICROSTRUCTURES OF CAST METALS
67-02 M13-60202
METALLOGRAPHIC ATLAS OF IRON, STEELS AND CAST IRONS. V. 1. FUNDAMENTALS OF METALLOGRAPHY
67-04 M13-67733
METALLOGRAPHIC ATLAS OF IRON, STEELS AND CAST IRONS. V. 2. STRUCTURE OF STEELS
67-04 M13-67734
AN ELECTRON DIFFRACTION STUDY OF PEARLITE
67-05 M13-69431
HIGH-TEMPERATURE MICROPROFILE APPEARING ON THE SURFACE OF IRON SPECIMENS DURING FATIGUE LOADING
67-05 M17-69656
INTERNAL SOUNDNESS OF CONTINUOUSLY-CAST BILLETS
67-06 M13-72278
DEFORMATION OF INCLUSIONS IN STEEL DEOXIDIZED WITH MANGANESE. PT. 1 67-07 M13-72436
BEHAVIOR OF DISLOCATIONS IN THE STEEL MATRIX AROUND SMALL NONMETALLIC INCLUSIONS. PT. 4. DEFORMATION OF NONMETALLIC INCLUSIONS IN STEEL DURING ROLLING
67-07 M13-72496
SPHEROIDAL GRAPHITE CAST STEEL 67-09 M04-76732
THE BAUMANN PRINT 67-09 M13-78022
MODIFICATION OF THE MARTENSITIC HARDENING PROCESS IN STEEL 67-10 M14-78604
METALLOGRAPHIC REAGENTS FOR THE DETERMINATION OF CHEMICAL AND PHYSICAL HETEROGENITY IN THE MICROSTRUCTURE OF IRON AND STEELS
67-11 M13-80704

STEELS, NONDESTRUCTIVE TESTING
METHODS FOR MEASURING DENSITY AND THICKNESS OF OBJECTS BY SCATTERING COLLIMATED GAMMA-RAYS
67-02 M19-58941
STRIP THICKNESS MEASUREMENT WITH RADIONUCLIDES
67-03 M19-65625
FORGING METALLURGY--STEEL. PT. 3. MODERN INSPECTION AND TESTING METHODS 67-04 M19-66170
FACTORS AFFECTING THE POSITION OF THE INJECTION POINT OF ULTRASONIC OSCILLATIONS ON INSPECTING WELDS 67-04 M19-66840
A METHOD OF INSPECTING THIN SHEETS BY NORMAL WAVES
67-04 M19-67088
DETERMINATION OF THE TOLERABLE RADII AND OF THE THICKNESS OF STEEL PIPES IN WHICH GAMMA DEFECTOSCOPY OF TRANSVERSE FILLET WELD BY DOUBLE EXPOSURE WITH IR192 IS POSSIBLE ALONG THE ENTIRE WELD LENGTH 67-04 M19-67434
ULTRASONIC TESTING IN A LARGE STEEL WORKS
67-06 M19-71891
THE ORIGIN, DETECTION AND IDENTIFICATION OF DEFECTS IN STEEL FORGINGS 67-06 M19-71892
NEW DEVELOPMENTS IN NONDESTRUCTIVE TESTING OF TUBES
67-06 M19-72097
THE AUTOMATION OF THE CONTINUOUS NONDESTRUCTIVE TESTING OF HOT ROLLED PRODUCTS
67-07 M19-72713
BRIGHTSIDE INSPECTION AND DESEAMING LINES FOR LYSAGHTS 67-07 M19-72932
ULTRASONIC INSPECTION OF FLAT ROLLED STEEL
67-07 M19-73024
THE ORIGIN, DETECTION, AND IDENTIFICATION OF DEFECTS IN STEEL FORGINGS 67-07 M19-73370
WALL THICKNESS MEASUREMENTS BY NONDESTRUCTIVE METHODS IN THE PRODUCTION OF STEEL TUBES
67-07 M19-74110
HIGHLY MECHANIZED INSPECTION AND DESEAMING LINES IN A STEELWORKS 67-07 M20-73373
ON-LINE ULTRASONIC INSPECTION OF COIL EDGES FOR ELECTRIC RESISTANCE WELDED PIPES USING A RESONANCE TRANSMISSION METHOD
67-08 M19-75805
NONDESTRUCTIVE TEST OF THE SURFACE HARDNESS OF CASE HARDENED SPECIMENS AT CONSTANT CARBURIZING DEPTH 67-09 M17-77481

STEELS

POSSIBILITIES FOR THE USE OF NONDESTRUCTIVE TESTING FOR THE DETECTION OF DEFECTS IN THE PRODUCTION OF STEEL TUBES 67-09 M19-76696
DRAFT RECOMMENDED PRACTICE FOR THE ULTRASONIC INSPECTION OF BUTT WELDS 67-09 M19-77814
PROCEDURE FOR THE INSPECTION OF THIN SHEET WITH NORMAL MODES 67-09 M19-78068
RADAR PATROLS FOR SURFACE CRACKS 67-10 M19-78861

STEELS, PAINTING
ASSEMBLY LINES FOR PAINTING 67-01 M12-58433

STEELS, PHASE TRANSFORMATIONS
REVIEW OF EXISTING KNOWLEDGE ON TRANSFORMATIONS OF SUPERCOOLED AUSTENITE 67-02 M14-60287
EFFECTS OF PRESSURE ON THE STRUCTURE OF IRON-CARBON MARTENSITES 67-11 M13-81593
GROWTH OF IRON-CARBON EUTECTIC 67-11 M14-81069
STEEL AND TEMPERATURE 67-11 M15-81538

STEELS, PHASES /STATE OF MATTER/
RECENT DEVELOPMENTS ON THE ISOLATION OF INCLUSIONS --PRECIPITATES-- IN STEEL 67-01 M14-58261
APPLICATION OF THE CONTINUOUS COOLING TRANSFORMATION DIAGRAM TO THE PRACTICE OF HEAT TREATMENT 67-07 M14-73029
INTERACTION OF CONTROLLED ATMOSPHERES WITH METALS 67-10 M10-79216

STEELS, PHYSICAL PROPERTIES
STUDY OF THE EFFECT OF CONSTANT SHEAR STRESS ON AMPLITUDE-DEPENDENT INTERNAL FRICTION 67-04 M15-66864
SURFACE TENSION OF MELTS OF SIO2-NA2O-B2O3-V2O5 AND THEIR ADHESION TO STEEL 67-06 M15-71130
PHYSICAL PROPERTIES OF STEELS 67-11 M15-81399

STEELS, PICKLING
PROGRESS IN THE FIELD OF PICKLING AND THE TREATMENT OF PICKLE LIQUORS. PT. 1 67-07 M12-73111

STEELS, PIPE
COMPOSITE PIPES OF STEEL AND PLASTICS 67-10 M20-79092

STEELS, PIPES
INSPECTION OF SPIRALLY WELDED PIPE 67-07 M19-72705

STEELS, PLATING
INVESTIGATION OF INTERNAL STRESSES IN SN-NI COATINGS 67-07 M12-73652

STEELS, POWDER METALLURGY
MACHINE ELEMENTS OF SINTERED MATERIAL 67-04 M09-66188
THE FATIGUE STRENGTH OF SINTERED MATERIALS 67-04 M17-66557
MANUFACTURE OF BRIQUETTES FROM IRON AND STEEL POWDERS BY THE HYDRODYNAMIC COMPACTING METHOD 67-08 M09-74906
HELICAL GEARS BY POWDER METALLURGY 67-08 M09-75489
NOW--STEEL IN POWDER METALLURGY 67-10 M09-80030

STEELS, REACTIONS /CHEMICAL/
CRYSTAL STRUCTURE AND SOME CHEMICAL AND PHYSICAL PROPERTIES OF NONMETALLIC INCLUSION IN STEEL 67-01 M13-58310
REVERSIBLE SHAKING LADLE --D-M CONVERTER-- 67-02 M04-60619
THE INFLUENCE OF WATER VAPOR AND CARBON DIOXIDE ON THE OXIDATION OF IRON AND IRON ALLOYS AT HIGH TEMPERATURES 67-02 M18-62010
ALLOY FOR DEOXIDIZING STEEL 67-04 M04-66004
EFFECT OF MANGANESE ON DESULFURIZATION OF THE SYSTEM FE-C-S-MN IN VACUUM 67-04 M04-66025
OBSERVATION OF DEOXIDATION PRODUCTS FORMED IN THE SI-DEOXIDATION OF STEEL 67-04 M13-67559
SOME CONSIDERATION ON THE MECHANISM OF DEOXIDATION REACTION OF MOLTEN STEEL 67-04 M14-67182
THE RATE OF DEOXIDATION OF STEEL BY ALUMINUM. PT. 3. KINETIC RESEARCHES INTO THE DEOXIDATION OF STEEL 67-06 M04-72218
OXIDATION OF STEEL DURING HIGH-SPEED HEATING 67-06 M10-70740
BEHAVIOR OF THE PRODUCTS FROM THE DEOXIDATION OF STEEL WITH SILICON OR MANGANESE. PT. 2. INVESTIGATION INTO BEHAVIOR OF DEOXIDATION PRODUCTS IN IRON AND STEEL 67-06 M14-72281
ON THE RATE OF DEOXIDATION OF STEEL BY SILICON. PT. 2. KINETIC RESEARCHES ON DEOXIDATION OF STEEL 67-07 M04-72448

STEELS, REFINING
THE DEOXIDATION WITH TITANIUM IN LIQUID IRON 67-01 M04-58260
THE ROLE OF HYDRODYNAMIC FACTORS IN THE DECARBURIZATION OF STEEL 67-03 M04-65953
VACUUM DEGASSING TONNAGE PLATE STEEL 67-04 M04-66563
NUCLEATION, GROWTH, AND FLOTATION OF OXIDE INCLUSIONS IN LIQUID STEEL 67-04 M04-66732
REVIEW ON ELECTROSLAG REMELTING 67-04 M04-67185
MAGNESIUM OXIDE IN BLAST FURNACE SLAGS 67-04 M04-67542
DEOXIDATION OF STEEL--WHAT HAPPENS FROM TAP TO SOLIDIFICATION 67-04 M04-68047
OXYGEN RIDES IN ARGON BUBBLES FOR DEGASSING OF STEEL 67-04 M04-68116
PROCESS OF TAP DEGASSING OF STEEL 67-05 M04-68728
ON THE SPECIFIC CONSUMPTION OF ALUMINUM FOR THE DEOXIDATION OF STEELS INTENDED FOR CASTINGS 67-05 M04-69069
ALLOY FOR DEOXIDIZING AND ALLOYING 67-06 M04-70730
MEASUREMENT OF THE RATE OF DEOXIDATION OF LIQUID STEEL BY THE EMF METHOD. PT. 7. STUDY OF OXYGEN CONCENTRATION CELLS AT HIGH TEMPERATURES 67-06 M04-72132
METHOD OF DETERMINING DISSOLVED OXYGEN AFTER THE ADDITION OF SILICON TO LIQUID STEEL FOR DEOXIDATION. PT. 1. INVESTIGATION OF DISSOLVED OXYGEN AFTER ADDITION OF DEOXIDANT 67-06 M04-72133
BEHAVIOR OF NONMETALLIC INCLUSIONS DURING ROLLING OF STEEL DEOXIDIZED WITH THE COMBINATIONS MN-AL AND SI-AL. PT. 5. DEFORMATION OF INCLUSIONS IN STEEL DURING ROLLING 67-06 M04-72211
EFFECT OF RATE OF CARBON ELIMINATION UPON THE FORMATION OF OXIDE FUMES IN THE OXYGEN BLOWING OF STEEL. PT. 1. FORMATION OF IRON OXIDE FUMES IN CARBON ELIMINATION PROCESSES 67-06 M04-72217
MIXING OF LIQUID STEEL AND DISSOLUTION OF FERROALLOYS DURING OH DEGASSING. PT. 11. APPLICATION OF RADIOACTIVE ISOTOPES IN STEELMAKING 67-06 M04-72270
BEHAVIOR OF DISSOLVED OXYGEN AFTER THE ADDITION OF SILICON FOR DEOXIDATION OF STEEL. PT. 2. INVESTIGATION OF DISSOLVED OXYGEN AFTER THE ADDITION OF A DEOXIDANT 67-06 M04-72271
RATE OF COMPLEX DEOXIDATION BY MANGANESE AND ALUMINUM. PT. 5. --KINETIC RESEARCH INTO THE DEOXIDATION OF STEEL.-- 67-06 M04-72275
DEOXIDATION OF LIQUID STEEL UNDER REDUCED PRESSURE BY HYDROGEN 67-06 M04-72290
MANUFACTURING POROUS CERAMIC PLUGS FOR BOTTOM BLOWING OF STEELS IN LADLES 67-06 M05-70562
DENSITY OF LIQUID FLUXES FOR ELECTROSLAG REMELTING AND HEATING 67-06 M15-71848
CONSTRUCTION AND OPERATION OF AN R-H VACUUM STEEL DEGASSING PLANT 67-07 M04-72493
PRIMARY INCLUSIONS FROM THE DEOXIDATION OF STEEL WITH SILICON AND ALUMINUM. PT. 1. KINETIC RESEARCHES ON STEEL DEOXIDATION 67-07 M04-72499
STEEL DEGASSING METHODS IN THE UNITED STATES 67-07 M04-72904
VACUUM TREATMENT OF BALL-BEARING STEEL PRODUCED WITHOUT FERROSILICON ADDITION 67-07 M04-73006
THE ASEA-SKF DEGASSING PROCESS 67-07 M04-73328
NEW METHODS IN THE VACUUM TREATMENT OF STEEL 67-07 M06-74112
PROGRESS IN THE OXYGEN AND NITROGEN CONTROL IN STEEL PRODUCTION 67-08 M04-74451
POSSIBILITIES OF VACUUM-GAS-METALLURGY IN THE PRODUCTION OF STEELS 67-08 M04-75049
DEOXIDATION OF LIQUID STEEL WITH ALUMINUM AND ELIMINATION OF THE RESULTING ALUMINA 67-08 M04-75313
THE KINETICS OF ALUMINUM DEOXIDATION OF STEEL 67-08 M04-75314
BLOWING A THROUGH MOLTEN STEEL FOR DEGASSING AND STIRRING BY THE GAZAL PROCESS 67-08 M04-75794
THE PRODUCTION OF ULTRAPURE STEELS IN ELECTRONIC BOMBARDMENT FURNACES 67-08 M04-75839
THE CARBON-OXYGEN REACTION DURING DEGASSING OF STEEL MELTS BY THE VACUUM LIFTER PROCESS 67-09 M04-76701
DESULFURIZING CAPACITY OF CAF2-BASE SLAGS 67-09 M04-77269
ACCELERATED REFINING BY POWDER INJECTION IN THE

ELECTRIC ARC FURNACE 67-09 M04-78005
CHEMICAL BEHAVIOR OF DISSOLVED OXYGEN DURING DEOXIDATION WITH SILICON 67-09 M14-76756
THE ELECTROLYTIC DEOXIDATION OF METALLIC MELTS, PARTICULARLY STEEL AND CU 67-10 M04-78792
THE CARBURIZATION OF IRON MELTS IN THE GRAPHITE CRUCIBLE, ANOTHER EXAMPLE OF THE PARTICULARITIES OF METALLURGICAL REACTIONS 67-10 M04-79057
SURFACING AND ELIMINATION OF NONMETALLIC INCLUSIONS FROM LIQUID STEEL 67-10 M04-79715
LADLE-TO-LADLE VACUUM STREAM DROPLET DEGASSING AT SHARON STEEL CORPORATION. PT. 2 67-10 M06-78703
CONTINUOUS CIRCULATION VACUUM DEGASSING 67-11 M04-80114
ELECTROSLAG REFINING TECHNOLOGY 67-11 M04-80932
PROCESS TECHNOLOGY IN THE IRON AND STEEL INDUSTRY 67-11 M04-81132
THE BASIC MECHANISMS OF MOVEMENT OF A GAS-METAL MIXTURE DURING CIRCULATION VACUUM DEGASSING 67-11 M04-81651

STEELS, ROLLING
OPERATION AND USE OF DATA PROCESSING PLANTS IN ROLLING MILLS 67-01 M07-58110
HEAT CONDITIONS IN ROLLS DURING OPERATION OF COLD ROLLING SHEET MILL 67-02 M07-61746
CLOSER TOLERANCE ALUMINIUM STRIP JUSTIFIES ADVANCED MILL DESIGN 67-02 M07-61849
THE EVALUATION OF ROLLING WEAR INVESTIGATIONS. PT. 1 67-03 M07-65598
COMPUTERIZED HOT MILL SWELLS U. S. STEEL SHEET PRODUCTION 67-04 M07-66400
DEVELOPMENT AND PRINCIPLE OF THE KRUPP/PLATZER PLANETARY ROLLING MILL 67-06 M07-70029
THEORETICAL STUDY OF THE UNEVENNESS OF DEFORMATION IN COLD LIGHT-GAGE SHEET ROLLING 67-06 M07-70284
IMPROVING THE OPERATION OF SLAB MILL VERTICAL STANDS 67-06 M07-71254
CONSTANT-GAP MILL IN SERVICE--LOWEY-ROBERTSON DESIGN PRODUCES CLOSE-TOLERANCE STRIP 67-06 M07-72017
DETERMINATION OF THE BENDING MOMENT DURING ROLL FORMING OF SKELP FOR ELECTRICALLY LINE WELDED LARGE-DIAMETER PIPES 67-06 M08-70748
TECHNICAL AND ECONOMIC CONSIDERATIONS IN PLATE MILL PROCESS CONTROL 67-07 M07-72427
CONTROL OF A MULTISTAND HOT-STRIP MILL 67-07 M07-72900
MODERNIZATION OF THE ANGLE SECTION MILL AT DISTRICT IRON AND STEEL COMPANY, LIMITED 67-07 M07-73087
THEORETICAL AND EXPERIMENTAL INVESTIGATION OF FORCES AND TORQUE IN ROLL-STRAIGHTENING OF ROLLED MATERIAL 67-07 M07-73227
CALCULATION OF THE ROLL FORCE AND TORQUE REQUIRED IN ROLLING STRIP WITH ELEVATED DEFORMING SPEEDS 67-07 M07-73285
FIRST KRUPP/PLATZER PLANETARY ROLLING MILL IN OPERATION 67-07 M07-73330
CALCULATION OF THE COLD ROLLING TORQUE OF STRIP WITH TENSION 67-07 M07-73475
RAPID STOPPING DEVICES FOR HIGH-SPEED REVERSING ROLLING MILLS 67-08 M07-74928
SIMPLIFIED CALCULATION OF ROLL-SEPARATING FORCE AND TORQUE IN STEEL STRIP ROLLING 67-08 M07-75392
THE SEIZING AND PASSING OF INGOTS THROUGH THE ROLLS IN ROLLING ON REVERSING MILLS 67-08 M07-75588
IMPROVING OPERATING CONDITIONS OF VERTICAL STANDS IN SLABBING MILLS 67-08 M07-75723
INVESTIGATION OF THE DEFORMATION PROCESSES OF HOT CALIBER ROLLING OF STEEL USING PLASTICINE AS A MODEL MATERIAL 67-08 M07-75770
TESTING THE COMBINATION OF CONTINUOUS CASTING AND ROLLING OF STEEL IN AN EXPERIMENTAL PLANT OF THE BEZHITSA STEELMAKING WORKS 67-09 M04-76975
INLAND STEELS COMPUTERIZED STRIP MILL AND COIL CONVEYOR 67-09 M07-76472
FINDING A PRACTICAL METHOD FOR CALCULATING ROLL FORCE IN WIDE REVERSING COLD MILLS 67-09 M07-76670
THE BEHAVIOR OF ELECTROPLATED NICKEL SUBLAYERS DURING ROLLING OF BIMETALS 67-10 M07-79812

STEELS, SHEET /METAL/
EFFECT OF A MECHANICAL ACTIVATION OF THE SURFACE OF STEEL SHEETS ON THEIR CHEMICAL REACTIVITY 67-09 M14-77852

STEELS, SLITTING
COLD STRIP SLITTING LINE 67-06 M07-71415

STEELS, SOAKING
IMPROVING REGENERATIVE SOAKING PITS 67-06 M10-71269

STEELS, SOLIDIFICATION
NUCLEATION OF OXIDE PARTICLES DURING SOLIDIFICATION 67-08 M14-75315

STEELS, STANDARDIZATION
STEEL PIPES FOR DISTRICT --LONG DISTANCE-- HEAT INSTALLATIONS 67-08 M19-74930

STEELS, STEEL MAKING
MILLOM TO MAKE STEEL BY BISRAS SPRAY PROCESS 67-04 M04-66405
SEPARATION OF EMULSIFIED SLAG FROM MOLTEN STEEL IN THE BASIC OXYGEN LD PROCESS. PT. 8. USE OF RADIOISOTOPES IN STEELMAKING 67-06 M04-72287
THERMAL CONDUCTIVITY OF SWARF BRIQUETTES 67-07 M04-73052

STEELS, STRESS ANALYSIS
FACTORS AFFECTING X-RAY LATTICE EXTENSION MEASUREMENTS IN THE DETERMINATION OF APPLIED AND RESIDUAL STRESSES 67-09 M17-77880

STEELS, STRIP
JOHN LYSAGHT INSTALLS CONTINUOUS COATING LINE 67-04 M12-67908

STEELS, SURFACE FINISHING
THE POLISHING OF HARDENED STEEL PARTS BY THE TROWAL-HZ-VZ PROCESS 67-01 M12-58428
INSPECTING AND DESEAMING BILLETS 67-06 M08-71742
HYDRAULIC DESCALING IN A BREAKDOWN MILL AT THE KLEMENT GOTTWALD WORKS 67-06 M12-70922
TIKI GEAR DE-BURRING MACHINE 67-06 M12-71325
TRICLENE PHOSPHATIZING PREPARES METAL PARTS FOR IMPROVED FINISHING 67-07 M12-72934
FINISHING TECHNIQUES FOR SPECIAL ROLLED STEEL 67-08 M12-75904
THE EFFECT OF OXYGEN ON POLISHING OF STEEL 67-10 M12-79112
FINE FINISHING--THE DEVELOPMENT FROM HAND OPERATIONS TO VIBRATORY METHODS 67-10 M12-79191
SANDBLASTING 67-11 M12-80577
RESEARCHES ON BARREL FINISHING 67-12 M12-83598
EFFECTS OF GRINDING VARIABLES ON SURFACE STRUCTURE OF HARDENED STEEL 67-12 M12-83599
ROUGHNESS OF FINISHED SURFACE IN GRINDING OPERATION OF HARDENED STEEL 67-12 M12-83600

STEELS, SURFACE PROPERTIES
ADHESION OF NITRIDES TO STEEL AND SLAG 67-06 M15-70266
NEW METHOD FOR THE DETECTION OF PORES ON IRON AND STEEL SURFACES 67-08 M19-75504
THE EVALUATION OF SURFACE CONDITIONS BY THE ACID METHOD 67-11 M12-80500

STEELS, TEMPERATURE CONTROL
MEASUREMENT OF THE TRUE TEMPERATURE BY MEANS OF RADIATION PYROMETERS AND DETERMINATION OF THE EMISSIVITY IN STEEL MELTS 67-07 M19-73286

STEELS, TENSION TESTS
TENSILE TESTING MACHINE WITH PARTICULARLY HIGH SPRING CONSTANT 67-01 M17-58441

STEELS, THERMODYNAMICS
EFFECT OF NITROGEN ON SURFACE TENSION OF LIQUID IRON AND ITS ALLOYS 67-04 M15-66607

STEELS, THICKNESS
THICKNESS MEASUREMENT OF STEEL PLATE WITH GAMMA-RAY THICKNESS GAGE 67-08 M19-75806

STEELS, TUBEMAKING
THREE ROLLS IMPROVE QUALITY AND LOWER COST OF SEAMLESS TUBING 67-07 M07-74092

STEELS, VACUUM METALLURGY
SOME ASPECTS OF VACUUMING STEEL 67-06 M04-71879

STEELS, WEAR
THE LUBRICATION OF STEEL BY ELECTROPLATED GOLD 67-10 M17-78550
THE INFLUENCE OF VAPORS OF ORGANIC LIQUIDS AND OF STEAM ON THE SLIDING FRICTION SYSTEM OF MOS2 STEEL 67-11 M17-80868

STEELS, WELDED JOINTS
ARE ALL WELD DEFECTS HARMFUL 67-07 M19-72514

STEELS, WELDING
ON THE CRYSTALLIZATION OF THE WELD MOLTEN POOL AND CALCULATION OF RATE 67-01 M11-58202
ON-SITE WELDING OF PLATED STEEL PRESSURE VESSELS 67-02 M11-59500

STEELS
EXPERIENCE OF CO2 WELDING AT THE GOMSELMASH WORKS 67-02 M11-59796
SELECTION OF STEEL GRADES FOR STEEL CONSTRUCTION AND RELATED APPLICATIONS 67-02 M11-60103
A MICROWELDING MACHINE FOR THE PRODUCTION OF SEMICONDUCTOR COMPONENTS 67-02 M11-61049
IMPROVING THE EFFICIENCY OF MANUAL MILTIPOST WELDING ON A-C CURRENT 67-06 M11-70392
THE PREPARATION OF WELD EDGES BY MEANS OF IMPACT CUTTERS AND WELD EDGE MOLDERS 67-06 M11-71220
ARC WELDING OF STEELS WITHOUT A PROTECTIVE ATMOSPHERE 67-06 M11-71818
REQUISITES FOR MANUAL ARC WELDING IN THE SHIP-BUILDING INDUSTRY WITHOUT BEVELING EDGES 67-06 M11-71873
DEFORMATION AND STRENGTH OF END FILLET WELDS 67-06 M17-71600
A RATIONAL APPROACH TO STANDARDS FOR WELDED CONSTRUCTION. PT 1 67-07 M11-73606
THE CONTROL OF WELDING TIME IN RELATION TO THE PATTERN OF RESISTANCE BETWEEN ELECTRODES 67-07 M11-73712
THE STRENGTH IS IN THE SKELETON 67-07 M20-74093
ELECTRON BEAM WELDING DEVELOPMENTS IN U.S.A. 67-08 M11-75563
PRELIMINARY STUDIES OF SHORT-CIRCUITING ARC WELDING OF HY-80 STEEL 67-08 M11-76072
DEPOSIT WELDING ON STEEL ROLLS 67-08 M11-76289
WELDING EDGE JOINTS IN A TRANSVERSE MAGNETIC FIELD 67-09 M11-77242
ELECTROSLAG WELDING OF HIGH-ALLOY STEELS OF VARIOUS CLASSES 67-09 M11-77607
RESISTANCE SPOT WELDING OF THIN GALVANIZED STEEL SHEETS 67-09 M11-77657
THE WELDING OF GALVANIZED STEEL AND ZINC RICH PAINTED STEEL 67-09 M11-77658
MAKING THE MULTI-WELD --MANUAL-- D. C. POWDER SUPPLY MORE ECONOMIC 67-09 M11-78092
PIGME, A NEW AUTOMATIC INERT ARC WELDING PROCESS 67-10 M11-79194
PLASMA ARC WELDS THIN MATERIALS FAST 67-11 M11-80524
POSSIBILITY OF REPAIRING STEEL CASTINGS BY WELDING 67-11 M11-80570
RELATIONSHIP OF RESIDUAL STRESSES IN WELDING TO THE PHYSICO MECHANICAL PROPERTIES OF THE STEEL 67-11 M17-80551
STEELS, WELDMENTS
BRITTLE FRACTURES 67-01 M17-58352
STELLITE, MACHINE TOOLS
HARD FACING IMPROVES LIFE OF PRESS TOOLS 67-10 M08-79403
STELLITE, MECHANICAL PROPERTIES
INFLUENCE OF TUNGSTEN AND CARBON CONTENTS ON THE MICROSTRUCTURE AND PROPERTIES OF A COBALT-BASE HARDFACING ALLOY 67-01 M01-58649
STEP FORGING
THE CLASSIC FORGE 67-05 M07-69314
STEP QUENCHING
SEE INTERRUPTED QUENCHING
STEREOGRAPHY
SEE STEREOPHOTOGRAPHY
STEREOMICROSCOPY
LIKE JUNE, RADIOGRAPHY IS BUSTING OUT ALL OVER 67-06 M19-70457
STEREOPHOTOGRAPHY
SLIP ROTATIONS OF POLYCRYSTALLINE COPPER HAVING THE --001-- --110-- ORIENTATION DURING ROLLING 67-02 M14-59111
A CONSIDERATION ON THE DEVELOPMENT OF ROLLING TEXTURES IN ALPHA IRON 67-02 M14-59112
STICK ELECTRODE ARC WELDING
SEE SHIELDED METAL ARC WELDING
STICKING /ADHESION/
SEE ADHESION
STIFFNESS
TEMPERATURE DEPENDENCE OF THE ELASTIC STIFFNESS COEFFICIENTS OF NIOBIUM --COLUMBIUM-- 67-02 M17-59423
TEMPERATURE DEPENDENCE OF THE ELASTIC CONSTANTS OF MOLYBDENUM 67-07 M17-72635
STIFFNESS TESTS
EFFECTIVE STRAIN RATES IN LOW-SPEED UNIAXIAL TENSIONAL TESTS 67-01 M17-58771
THE TESTING OF IMPROVED NAILS 67-02 M17-60626
EXPERIMENTAL BUCKLING OF INTERNAL INTEGRAL RING-STIFFENED CYLINDERS 67-06 M17-71152
STIRRING
ASEA-SKF--VACUUM DEGASSING PROCESS 67-08 M04-74655
HOW ELECTROMAGNETIC FORCES HELP TO REMOVE NONMETALLIC INCLUSIONS FROM MOLTEN METALS 67-11 M03-81409
HOW ELECTROMAGNETIC STIRRING OF SOLIDIFYING METAL AFFECTS THE CHEMICAL HETEROGENEITY AND MACROSTRUCTURE OF THE INGOT 67-11 M04-81410
NEW STEEL PROCESS COMBINES REFINING AND DEGASSING IN INDUCTION STIRRED FURNACE LADLE 67-12 M04-82883
FLOW CHARACTERISTICS OF MOLTEN LEAD 67-12 M15-83081
STIRRING, STEEL MAKING
ELECTROMAGNETIC STIRRER FOR DESULFURIZING IRON OUTSIDE THE FURNACE 67-09 M04-76988
STITCH WELDING
SEE SPOT WELDING
STOCK
SEE RAW MATERIALS
STOICHIOMETRY
STOICHIOMETRY OF MGO-MNXO SOLID SOLUTIONS IN AIR AT HIGH TEMPERATURES 67-02 M05-61088
PROPERTIES OF URANIUM MONOPHOSPHIDE 67-02 M15-61087
RESEARCH ON RE3AS7 67-04 M13-66167
LAVES PHASES IN THE SCANDIUM-IRON SYSTEM 67-05 M13-68593
STUDIES OF THE DEFECT STRUCTURE OF NONSTOICHIOMETRIC RUTILE, TIO2-X 67-05 M13-68624
REVIEW OF THE STRUCTURAL PROPERTIES OF BINARY ALUMINIDES OF THE TRANSITION ELEMENTS 67-05 M13-69126
THE MIXING HEATS OF SB WITH B METALS. PT. 1. SYSTEMS WITH ZN AND CD 67-05 M15-68487
INVESTIGATION OF THE CR-SI SYSTEM IN THE DISILICIDE REGION 67-05 M16-68708
NATURE OF THE DEFECTS IN GERMANIUM TELLURIDE 67-05 M16-69578
STRUCTURE OF THE TWO NEW INTERMETALLIC PHASES-- SRCU5 AND BAPD5 67-06 M13-70120
THE CRYSTAL STRUCTURE OF CE5MG42 67-06 M13-71404
MISCELLANEOUS STRUCTURES OF FIXED STOICHIOMETRY 67-07 M13-73673
POINT DEFECTS IN BINARY COMPOUNDS 67-07 M13-74099
MAGNETIC-SUSCEPTIBILITY STUDIES ON THE MAGNELI PHASES OF THE TITANIUM-OXYGEN SYSTEM 67-07 M15-73601
INTERMETALLIC PHASES IN THE SYSTEMS OF ZINC WITH LANTHANUM, CERIUM, PRASEODYMIUM, NEODYMIUM, AND YTTRIUM 67-09 M13-77722
STOICHIOMETRY OF PRASEODYMIUM OXIDES 67-09 M13-78016
INVESTIGATION OF THE PHASE TRANSITION AND THE STRUCTURE OF ALPHA-GETE 67-09 M14-76771
INVESTIGATION OF --FE, MN--1-YO SOLID SOLUTIONS 67-10 M14-80023
THE ROLE OF THE DEFECT INTERACTION ENERGY ON THE STABILITY OF INTERSTITIAL PHASES 67-11 M16-81120
SELF-DIFFUSION COEFFICIENT OF URANIUM IN URANIUM MONOCARBIDE 67-12 M14-83157
SELF-DIFFUSION OF URANIUM IN URANIUM DIOXIDE--ROLE OF THE DEVIATION FROM STOICHIOMETRY AND OF GRAIN JOINTS 67-12 M14-83198
EFFECT OF STOICHIOMETRY ON THE THERMAL EXPANSION OF TACX 67-12 M15-82996
INVESTIGATION OF THE CR-SI SYSTEM IN THE DISILICIDE REGION 67-12 M16-82684
STOPS
SEE PLUGS
STORA KALDO FURNACES
SEE KALDO CONVERTERS
STORA KALDO PROCESS
SEE KALDO CONVERTERS
STORAGE
SEE DATA STORAGE
STORAGE BATTERIES
PRODUCTION OF ELECTRODE STRIP FROM CADMIUM OXIDE BY POWDER ROLLING 67-02 M09-62132
STORAGE TANKS
MECHANIZED VERTICAL WELDING UTILIZING THE GAS METAL-ARC PROCESS 67-06 M11-71679
SPECIAL CORROSION RESISTANT ALLOY USED FOR LARGE NITROGEN FERTILIZER TOWER 67-06 M20-71319

STORAGE TANKS, COATING
LATEST DEVELOPMENTS IN ZINC-RICH PAINTS
67-03 M12-65627
STORAGE TANKS, CORROSION
STAINLESS STEEL TANKS FOR RADIOACTIVE WASTE STORAGE 67-01 M18-58763
CORROSION PROTECTION OF THE INSIDE OF FUEL OIL STORAGE TANKS, COATING OF COLLECTING VESSELS BUILT OF CONCRETE, ETC. 67-10 M18-79089
THE EVALUATION OF CORROSION PROBLEMS. PT. 3
67-10 M18-79297
SOME ASPECTS OF CORROSION PROBLEMS ASSOCIATED WITH STORAGE TANKS 67-12 M18-82130
STORAGE TANKS, CRACKING /FRACTURING/
BRITTLE CRACKS IN AN OIL TANK 67-02 M17-61060
STORAGE TANKS, STANDARDS
SAFE AND ECONOMICAL ALUMINUM STORAGE TANKS
67-07 M19-74100
STORAGE TANKS, WELDING
APPLICATION OF T-1 STEEL IN PRESSURE PIPING
67-02 M11-61577
SURVEY OF EXPERIENCES WITH WELDED STEEL IN LOW-TEMPERATURE APPLICATIONS 67-04 M11-68022
STORAGE VESSELS
SEE ALSO STORAGE TANKS
NDT ASSURES VACUUM TIGHTNESS IN CRYOGENIC TANKS
67-06 M19-72248
STORAGE VESSELS, MATERIALS
STAINLESS AND SPECIAL ALLOY STEELS
67-05 M20-69547
STORAGE VESSELS, MECHANICAL PROPERTIES
NEW AUSTENITIC STAINLESS STEELS
67-10 M17-78478
STRAIGHTENING
SEE ALSO COLD STRAIGHTENING
STRAIGHTENING STEEL CASTINGS BY THE LOCAL HEATING METHOD 67-01 M06-57327
STRAIGHTENING OF STRUCTURAL COMPONENTS IN THE SHAPE OF PLATES WITH THE AID OF EXPLOSIVES
67-01 M08-58283
MECHANIZED STRAIGHTENING OF HIGH-SPEED STEEL DRILLS DURING THE QUENCHING PROCESS 67-02 M08-61259
INFLUENCE OF STRAIGHTENING ON TEXTURE AND MECHANICAL PROPERTIES OF MA2-1 MG ALLOY PLATES
67-02 M17-59768
THE STRAIGHTENING OF WELDED STRUCTURAL PARTS OF THE ALZNMG1 AL ALLOY 67-04 M07-68001
HEAT AT THE RIGHT SPOT STRAIGHTENS DEFORMED SHAFTS
67-04 M07-68113
ROLL STRAIGHTENING OF WELDED PLATES
67-04 M11-67995
EFFECT OF SHORT HEATING PERIODS ON THE MECHANICAL PROPERTIES OF 20S SHEET STEEL
67-04 M17-67969
ROLLING ROUND GEARS ROUNDS THEM OUT
67-06 M07-70488
PIPE AND TUBE PROCESSING MACHINERY
67-06 M07-72141
STRAIGHTENING SYSTEM ALSO INSPECTS AUTOMOTIVE PINION SHAFTS 67-06 M08-70681
RECTIFICATION OF STEEL CASTINGS BY LOCALIZED HEATING 67-07 M06-73049
INVESTIGATION OF THE STRENGTHENING OF ST. 3 AND KH17N13M2T STEELS DURING STRAIGHTENING
67-07 M07-73197
HUGE SHEARING LINE SPEEDS STEELCASE SHEETS
67-07 M08-73211
INFLUENCE OF STRAIGHTENING ON THE TEXTURE AND MECHANICAL PROPERTIES OF SHEETS OF THE MA2-1 ALLOY 67-08 M17-76126
STUDY ON WARM WORKING. PT. 2. ROLLER STRAIGHTENING OF MILD STEEL BY WARM WORKING PROCESS
67-09 M07-78213
STRAIN
TO THE RELATION BETWEEN STRAIN RATE AND DEFORMATION RATE OF COPPER SINGLE CRYSTALS IN STAGE 3
67-01 M17-58633
STRAIN RATIO RELATIONSHIP IN PLASTIC DEFORMATION
67-02 M17-58826
EFFECT OF THE ANISOTROPY OF STEEL ON THE FORM OF THE YIELD SURFACE 67-02 M17-58889
THE MICROSTRAIN BEHAVIOR OF BERYLLIUM SINGLE CRYSTALS 67-02 M17-58962
SOME WORK WITH A MICROSTRAIN APPARATUS
67-02 M17-59913
LOCAL STRAINS DURING INTERACTION OF SLIP BANDS AND TWINS WITH BARRIERS 67-05 M13-69651
MEASUREMENT OF ELASTIC MICROSTRAIN OF POLYCRYSTALLINE TITANIUM 67-05 M17-69638
ON THE INFLUENCE OF ELASTIC ANISOTROPY ON X-RAY MEASUREMENTS OF LATTICE STRAINS IN THE FERRITE OF FERROUS MATERIALS 67-06 M17-70051
LINE SHAPE ANALYSIS OF COLD WORKED MAGNESIUM
67-07 M13-73435
STRAIN IN METAL CARBIDES 67-12 M17-81825
STRAIN, DIFFUSION EFFECTS
IMPERFECTIONS DUE TO DOUBLE DIFFUSIONS IN EPITAXIAL SILICON 67-05 M14-69211
STRAIN AGE HARDENING
SEE STRAIN AGING
STRAIN AGING
THE EFFECT OF STRESS ON STRAIN AGEING
67-01 M17-57480
STRAIN-AGING IN TANTALUM 67-02 M17-58954
A STUDY OF STRAIN AGING IN AUSTENITE
67-02 M17-60639
THE APPEARANCE OF A CHARACTERISTIC YIELD POINT IN VANADIUM ALLOYS 67-03 M17-65129
ORDERING PROCESSES AND STRAIN AGEING OF TERNARY ORDERED ALLOYS BASED ON NI3FE
67-04 M14-67641
SYNAMIC STRAIN AGEING IN MILD STEEL
67-04 M17-66060
THE EFFECT OF PRE-STRAIN AND STRAIN-AGEING ON THE CLEAVAGE FRACTURE OF A HIGH-MANGANESE STEEL
67-04 M17-66068
THE EQUILIBRIUM COTTRELL ATMOSPHERE AND THE DISCONTINUOUS YIELD IN TANTALUM-OXYGEN
67-04 M17-66069
THE INFLUENCE OF STRAIN RATE AND STRAIN AGEING ON THE FLOW STRESS OF COMMERCIALLY-PURE ALUMINIUM
67-04 M17-66505
VARIATION OF THE EXTERNAL FORM OF CEMENTITE AND MECHANICAL PROPERTIES DURING STRAIN AGING OF SPRING STEELS 67-04 M17-66877
COMMENTS ON THE INFLUENCE OF PLASTIC STRAIN ON AGING KINETICS 67-06 M14-72237
THE EFFECT OF STRAINING AT 100-500 C. ON THE ROOM TEMPERATURE MECHANICAL PROPERTIES OF CARBON STEELS 67-06 M17-70838
STRAIN-AGING OF TANTALUM 67-06 M17-71602
STRAIN AGING EFFECTS AND STRESS RELAXATION IN IRON DURING SHOCK LOADING 67-07 M17-73902
CORRELATION OF LOCAL ORDER WITH MECHANICAL PROPERTIES 67-08 M14-75341
STRAIN AGING OF MARTENSITE TEMPERED BELOW 400 F
67-08 M14-75973
THE STRENGTH AND TOUGHNESS OF DYNAMICALLY STRAIN AGED ALLOY STEEL SHEETS 67-08 M17-76158
DYNAMIC STRAIN AGING OF ALPHA-COPPER-TIN-ALLOYS
67-09 M17-76792
STUDY ON WARM WORKING. PT. 1. STRENGTHENING MECHANISM BY WARM WORKING OF STEEL
67-09 M17-78212
CAUSES OF THE STRONG AMPLITUDE DEPENDENCE OF INTERNAL FRICTION IN COLD STRAINED STEEL
67-10 M17-79235
A STUDY OF THE STRAIN-AGE CRACKING CHARACTERISTICS IN WELDED RENE 41--PHASE 1 67-11 M11-80414
THERMALLY ACTIVATED DEFORMATION OF ALPHA ZIRCONIUM
67-11 M14-81347
STRAIN AGING OF LOW CARBON STEELS
67-11 M14-81660
STRAIN AGING, ALLOYING EFFECTS
THE EFFECT OF ALUMINUM ON THE PRECIPITATION OF CARBON IN ALPHA IRON 67-08 M14-75664
YIELD POINT PHENOMENA IN NONFERROUS METALS
67-11 M17-80343
STRAIN AGING, HEATING EFFECTS
EFFECTS OF HEAT TREATMENT ON THE FLOW STRESS
67-07 M17-73751
STRAIN AGING, TEMPERATURE EFFECTS
THE STRAIN AGING OF TERNARY ORDERED NI3FE-BASE ALLOYS AND THE RELATIONSHIP OF THEIR MECHANICAL PROPERTIES TO TEMPERATURE 67-08 M17-74892
STRAIN ANNEALING
A STUDY OF GRAIN GROWTH IN FECO-V
67-03 M14-65091
X-RAY STUDY OF THE RECRYSTALLIZATION OF ELECTROLYTIC IRON 67-04 M14-67377
STRESS-STRAIN ANALYSIS OF METAL CRYSTALS BY THE DIVERGENT X-RAY BEAM METHOD 67-05 M17-68524
THE GROWTH OF LARGE SINGLE CRYSTAL SHEETS WITH THE --100-- --011-- ORIENTATION FROM ELECTROLYTIC IRON 67-06 M14-71733
STRAIN ANNEALING, STRESS EFFECTS
X-RAY DIFFRACTION STUDY OF THE PERFECTION OF NIOBIUM SINGLE CRYSTALS 67-03 M14-65090

STRAIN GAGES
STRAIN SENSITIVITY OF VACUUM DEPOSITED THIN FILMS 67-06 M12-71953
THE RECORDING OF A STRESS-STRAIN-CURVE EMPLOYING AN ELECTRONIC COMPUTER 67-06 M17-71865
BEHAVIOUR OF ELECTRICAL RESISTANCE STRAIN GAUGES AT LOW TEMPERATURES. PT. 2. GAUGE FACTOR 67-06 M20-72258
SENSITIVITY IMPROVEMENT IN STRAIN GAGE MEASUREMENTS 67-07 M17-72767
CHARACTERISTICS OF THIN FILM SEMICONDUCTOR STRAIN GAGES 67-09 M12-77305
STRAIN MEASUREMENTS IN TUBES DURING RAPID TRANSIENT HEATING 67-10 M15-78776
TRUE STRAIN RATE COMPRESSION TESTING IN A CAM PLASTOMETER 67-10 M17-78624
TWO TYPES OF HIGH-TEMPERATURE WELDABLE STRAIN GAGES--NI-CR HALF-BRIDGE FILAMENTS AND PT-W HALF-BRIDGE FILAMENTS 67-10 M19-78777
MEASUREMENTS OF PRESSURE DISTRIBUTION IN THE DRAWING OF TUBES AND BARS 67-11 M07-81375
STRAIN HARDENABILITY
MEASUREMENT OF STRAIN HARDENING AND PLASTIC STRAIN RATIO USING THE CIRCLE-ARC SPECIMEN 67-04 M17-66141
STRAIN HARDENABILITY, HEATING EFFECTS
MECHANICAL PROPERTIES OF FE-CR ALLOYS EMBRITTLED AT 475 C 67-08 M17-74438
STRAIN HARDENABILITY, RADIATION EFFECTS
EFFECTS OF NEUTRON IRRADIATION ON THE FLOW AND FRACTURE BEHAVIOR OF ZIRCALOY-2 67-07 M17-73394
STRAIN HARDENING
SEE ALSO EXPLOSIVE HARDENING
PEENING
SHOT PEENING
SPIN HARDENING
STUDY OF HARDENING OF SINTERED ALUMINUM POWDER --SAP-- 67-01 M09-58192
ELECTRON METALLOGRAPHY TECHNIQUES APPLIED TO BODY CENTERED CUBIC METALS AND ALLOYS 67-01 M13-58761
PHYSICAL METALLURGY ASPECTS OF PLASTIC DEFORMATION 67-01 M14-58362
SUBSTRUCTURAL STRENGTHENING IN MATERIALS SUBJECT TO LARGE PLASTIC STRAINS 67-01 M17-57407
STABILITY OF PLASTIC WORK HARDENING OF TOOL STEELS UNDER THE EFFECT OF HEAT 67-01 M17-58088
METHOD OF INCREASING THE LIFE OF STEELS AND ALLOYS 67-01 M17-58157
EFFECT OF STRAIN AGING ON THE MECHANICAL PROPERTIES OF KILLED FINE-GRAINED STEELS 67-01 M17-58176
A STUDY OF THE TOUGHNESS DIFFERENCES BETWEEN ALUMINUM-KILLED AND SEMIKILLED STEELS 67-01 M17-58461
EFFECT OF DEFORMATION RATE AND TEMPERATURE ON MECHANICAL PROPERTIES OF SELECTED HIGH STRENGTH ALLOYS 67-01 M17-58682
PLASTIC DEFORMATION OF REFRACTORY COMPOUNDS 67-02 M09-60184
HIGH-TEMPERATURE STRENGTH AND DIFFUSIBILITY OF TITANIUM ALLOYS AFTER HEAT-TREATMENT AND THERMOMECHANICAL TREATMENT 67-02 M14-60292
SUPERPOSITION OF THE EFFECTS OF THE FORMATION OF DIFFUSIONAL POROSITY DURING SELF-DIFFUSION AND HETERODIFFUSION 67-02 M14-62079
INTERNAL SHEARING RESISTANCES IN THE THREE SHEAR THEORY OF PLASTICITY 67-02 M17-58824
STUDY OF THE STRUCTURAL AND MECHANICAL CHARACTERISTICS OF COPPER AFTER AUSFORMING 67-02 M17-58897
STRAIN-AGING IN TANTALUM 67-02 M17-58954
THE INFLUENCE OF A SECOND-PHASE INTERFACE ON THE WORK HARDENING BEHAVIOR OF AN ALUMINUM-5 AT. PER CENT SILVER ALLOY 67-02 M17-58958
MECHANICAL BEHAVIOR OF ALUMINUM STRAINED WITH IMPACT LOADING 67-02 M17-59125
THE PROPERTIES OF LOW-CARBON IRON-NICKEL-CHROMIUM MARTENSITES 67-02 M17-59426
CALCULATION OF THE WORK-HARDENING CHARACTERISTICS OF TENSILE TESTED POLYCRYSTALLINE METALS 67-02 M17-59718
IMPROVEMENT OF SURFACE HARDNESS OF QUENCHED ALLOY STEEL BY WORK HARDENING AND TEMPERING AT 200 C 67-02 M17-59772
WORK HARDENING CAUSED BY INTENSIVE ULTRASONIC TREATMENTS IN SINGLE CRYSTALS 67-02 M17-59911
INVESTIGATION OF AMPLITUDE DEPENDENCY AND THERMAL RECOVERY OF WORK HARDENING CAUSED BY ULTRASONIC TREATMENTS 67-02 M17-59912
ON THE MECHANICAL PROPERTIES OF TI-AL-CO ALLOYS AT ROOM TEMPERATURE 67-02 M17-59989
IMPROVING THE PROPERTIES OF WELDED JOINTS IN VNS2 STEEL 67-02 M17-60010
HOW IMPORTANT IS THE STRESS RATIO 67-02 M17-60232
THE CYCLIC STRAIN BEHAVIOR OF CRYSTALS OF ALUMINUM-4 WT PER CENT COPPER. PT. 2. LOW CYCLE FATIGUE 67-02 M17-60638
STRENGTHENING ALUMINIUM ALLOYS AV AND V95 BY THERMOMECHANICAL TREATMENT 67-02 M17-61175
INFLUENCE OF COLD PLASTIC DEFORMATION ON MECHANICAL PROPERTIES OF QUENCHED CARBON-FREE IRON ALLOYS 67-02 M17-61222
COMBINED METHOD FOR HARDENING STEEL 67-02 M17-61985
EFFECT OF PLASTIC DEFORMATION AND PRECIPITATION HARDENING ON INTERNAL FRICTION PARAMETERS OF FE-MN AND FE-NI AUSTENITIC ALLOYS 67-02 M17-62088
INFLUENCE OF DEFORMATION IN THE 20 TO 700 C. TEMPERATURE RANGE ON THE PROPERTIES OF CARBON STEELS AT ROOM TEMPERATURE 67-02 M17-62232
THE EFFECT OF ANISOTROPY AND WORK-HARDENING CHARACTERISTICS ON THE STRESS AND STRAIN DISTRIBUTION IN DEEP DRAWING 67-03 M07-65940
RESIDUAL STRESSES AND WORK HARDENING DURING VIBRO-POLISHING 67-03 M12-65205
ELECTRON MICROSCOPIC SURFACE AND TRANSMISSION INVESTIGATIONS OF IRON SINGLE CRYSTALS AND THE INFLUENCE OF THE ORIENTATION ON THE WORK-HARDENING BEHAVIOR 67-03 M13-65218
ELECTRON MICROSCOPE STUDY OF WORK HARDENING AND QUENCH HARDENING OF MONOCRYSTALLINE BERYLLIUM 67-03 M13-65271
RECRYSTALLIZATION DUE TO PLASTIC DEFORMATION IN HOT WORKING 67-03 M14-65556
STUDY OF PURE ALUMINUM SINGLE AND BICRYSTALS RECRYSTALLIZATION 67-03 M14-65559
STRUCTURE AND HIGH-STRENGTH METALS 67-03 M17-65329
BASIC MECHANISMS OF STRAIN-HARDENING IN CERAMICS 67-03 M17-65333
THE DEFORMATION CHARACTERISTICS OF NB, TA, MO AND W 67-03 M17-65760
EFFECT OF PLASTIC DEFORMATION ON THE PROPERTIES OF OKHN40MDTYU --EP543-- ALLOY 67-03 M17-65782
THE FINE STRUCTURE OF AUSTENITIC STEEL STRENGTHENED BY AN INTERMETALLIC CONSTITUENT, AND DEFORMED IN A WIDE TEMPERATURE RANGE 67-04 M13-67640
ALLOY HARDENING IN ALPHA CU-AL SINGLE CRYSTALS AT LOW TEMPERATURES 67-04 M14-66271
DILATOMETRIC ANOMALIES IN TEXTURED ALLOYS DURING ALPHA-TO-GAMMA TRANSFORMATION 67-04 M14-67921
MEASUREMENT OF STRAIN HARDENING AND PLASTIC STRAIN RATIO USING THE CIRCLE-ARC SPECIMEN 67-04 M17-66141
THE CHANGE OF MECHANICAL AND PHYSICAL PROPERTIES OF ALPHA-IRON DUE TO TENSION, COMPRESSION, TORSION AND ROLLING 67-04 M17-66195
FATIGUE STRENGTH OF WELDED JOINTS FOR PIPE CONNECTORS 67-04 M17-66462
THE EFFECT OF GRAIN SIZE ON THE STRESS-STRAIN RELATIONSHIP IN LOW-CARBON STEEL 67-04 M17-66931
STUDY OF THE EFFECT OF PLASTIC DEFORMATION DURING INTERMITTENT AGING ON THE STRUCTURE AND PROPERTIES OF AN ALUMINUM-MAGNESIUM ALLOY 67-04 M17-67385
RECOVERY OF WORK-HARDENING OF SAP ALLOYS 67-04 M17-67457
ON THE HIGH-TEMPERATURE STRENGTH OF 0.35 PER CENT CARBON STEEL 67-04 M17-67595
ON THE MECHANISM OF STRENGTHENING DURING REPEATED STRAIN AGING 67-05 M14-69653
EFFECTS OF EXPLOSIVE FORMING ON THE STRAIN HARDENING IN STEEL 67-05 M14-69749
A CRITICAL EXAMINATION OF THE LONG-RANGE STRESS THEORY OF WORK-HARDENING 67-05 M17-68293
PLASTIC DEFORMATION OF THIN COPPER SINGLE CRYSTALS. PT. 1. THE SEPARATE ROLES OF EDGE AND SCREW DISLOCATIONS IN STAGE 1 OF WORK HARDENING 67-05 M17-68296
VARIATION OF INTERNAL FRICTION IN HEAT RESISTANT

MATERIALS HARDENED BY THERMOMECHANICAL TREATMENT 67-05 M17-68353
FATIGUE RESISTANCE OF THE KHN77TYUR ALLOY AND RESISTANCE TO PROLONGED EXPOSURE TO HIGH TEMPERATURES 67-05 M17-68361
STRENGTHENING OF CR-MN-MO STEEL BY COLD PLASTIC DEFORMATION 67-05 M17-68380
EFFECT OF PLASTIC STRENGTHENING ON THE HEAT RESISTANCE OF 3KH2V8 DIE STEEL 67-05 M17-68447
CONTRIBUTION TO THE STUDY OF THE PLASTICITY OF ZINC 67-05 M17-68541
PLASTICITY OF DEFORMED MAGNESIUM 67-05 M17-69268
SOME PROPERTIES OF FLOATING ZONE MELTED MO, W AND TA. PT. 7. THE ELECTRON BEAM MELTING OF REFRACTORY METALS 67-05 M17-69856
PRELIMINARY STRENGTHENING OF TUBES 67-06 M10-70068
INFLUENCE OF HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT ON STRUCTURE AND MECHANICAL PROPERTIES OF TITANIUM ALLOYS 67-06 M10-70069
THE MICROSTRUCTURAL CHARACTERIZATION OF COLD-ROLLED ZIRCALOY-4 SHEET 67-06 M13-69928
STUDY OF THE FINE STRUCTURE OF VT15 ALLOY AFTER HIGH-TEMPERATURE STRAIN HARDENING 67-06 M13-72121
WORK HARDENING AND DISLOCATION STRUCTURE IN TA AND TA-BASE ALLOYS 67-06 M14-71284
WORK HARDENING AND AGE HARDENING OF NICKEL CONTAINING 12 AT. PER CENT SILICON 67-06 M14-71663
SUBSTRUCTURAL STRENGTHENING OF A PRECIPITATION HARDENED MOLYBDENUM ALLOY 67-06 M14-72221
THE EFFECT OF STRAIN HARDENING AND HEAT TREATMENT ON THE ELECTRICAL CONDUCTIVITY OF POLYCRYSTALLINE COPPER FILMS 67-06 M15-70745
EASY GLIDE IN MOLYBDENUM CRYSTALS 67-06 M17-70437
THE EFFECTS OF FRACTIONAL DEFORMATION DURING HEAT AND MECHANICAL TREATMENT ON HIGH-TEMPERATURE STRENGTH 67-06 M17-70923
CREEP--FATIGUE BEHAVIOR OF POLYCRYSTALLINE ZINC 67-06 M17-70956
ON STRAIN-HARDENING OF MAGNESIUM OXIDE 67-06 M17-70957
LATTICE STRAIN MEASUREMENTS ON DEFORMED FCC METALS 67-06 M17-71425
DEFORMATION PROPERTIES OF NIOBIUM SINGLE CRYSTALS 67-06 M17-71520
PLASTICITY OF IRON SINGLE CRYSTALS 67-06 M17-71532
EFFECT OF TEMPERATURE AND DEGREE OF DEFORMATION ON HEAT RESISTANCE OF NICKEL DURING THERMOMECHANICAL TREATMENT 67-06 M17-72346
INVESTIGATION OF THE STRENGTHENING OF ST. 3 AND KH17N13M2T STEELS DURING STRAIGHTENING 67-07 M07-73197
HARDENING OF STEELS BY ELECTROMECHANICAL TREATMENT 67-07 M10-73790
WORK HARDENING OF ALLOYS CONTAINING HARD PARTICLES 67-07 M13-73849
THE LINEAR HARDENING OF CADMIUM 67-07 M17-73063
THE MECHANISM OF WORK HARDENING IN FCC METALS 67-07 M17-73065
STAGE 2 WORK HARDENING IN CRYSTALS 67-07 M17-73066
LATENT HARDENING AND THE FLOW STRESS IN COPPER SINGLE CRYSTALS 67-07 M17-73067
WORK HARDENING IN EASY GLIDE 67-07 M17-73069
WORK HARDENING AND RECOVERY IN CREEP 67-07 M17-73499
THE MICROSTRAIN CHARACTERISTICS OF BERYLLIUM 67-07 M17-73760
CONTRIBUTION TO THE THEORY OF PLASTICITY IN STRIP EXTRUSION 67-08 M07-75106
SOME EFFECTS OF TEMPERATURE CYCLING ON THE CREEP BEHAVIOR OF A NICKEL-BASE ALLOY 67-08 M10-75137
THEORY OF STRENGTHENING OF METALS 67-08 M14-74686
WORK HARDENING, RECOVERY, RECRYSTALLIZATION AND GRAIN GROWTH 67-08 M14-74805
CORRELATION OF LOCAL ORDER WITH MECHANICAL PROPERTIES 67-08 M14-75341
THE GRAIN-BOUNDARY SEGREGATION OF FE, CO AND NI IN PURE ALUMINUM AND ITS EFFECTS ON MECHANICAL PROPERTIES 67-08 M14-75356
STRAIN AGING OF MARTENSITE TEMPERED BELOW 400 F 67-08 M14-75973
MECHANICAL PROPERTIES OF G13L STEEL IN WORK-HARDENED STATE 67-08 M17-74587
STRUCTURE AND HARDNESS OF AUSFORMED OR DEFORMED FERROUS MARTENSITES 67-08 M17-75151
THE STATE OF STRESSES IN THE CUTTING ZONE 67-08 M17-75567
THE DESCRIPTION OF ANISOTROPIC WORK HARDENING 67-08 M17-75779
EFFECT OF MULTIPLE DEFORMATIONS ON THE RESISTANCE OF LOW-CARBON STEEL TO CYCLIC STRESSES 67-08 M17-76005
INCREASE OF SURFACE HARDNESS OF QUENCHED ALLOYED STEEL BY COLD WORKING AND TEMPERING AT 200 C 67-08 M17-76130
THE EFFECTS OF QUENCH AGING, STRAIN AGING, AND SUBSTRUCTURE ON THE TENSILE PROPERTIES OF 1020 STEEL 67-08 M17-76144
CONTRIBUTION TO THE INVESTIGATION OF THE PROBLEM OF THE RUPTURE OF EXTRA-MILD STEEL IN THE PRESENCE OF H2 67-08 M17-76220
STUDY ON WARM WORKING. PT. 2. ROLLER STRAIGHTENING OF MILD STEEL BY WARM WORKING PROCESS 67-09 M07-78213
STUDY OF WARM WORKING. PT. 3. WARM DRAWING OF COPPER ALLOYS 67-09 M07-78251
THE NATURE OF HARDENING DURING LOW-TEMPERATURE TEMPERING OF COLD DEFORMED CARBON STEELS 67-09 M10-76440
DISLOCATION DENSITIES IN DEFORMED CU-AL SINGLE CRYSTALS 67-09 M13-77991
STRENGTHENING OF DISPERSION HARDENING ALLOYS SUBJECTED TO HIGH-VELOCITY DEFORMATION 67-09 M14-76442
EFFECT OF STRAIN DEFORMATION ON ISOTHERMAL TRANSFORMATION OF SUPERCOOLED AUSTENITE OF 40KHSA STEEL 67-09 M14-77284
YIELD STRENGTH AND LOW-TEMPERATURE CREEP IN AUSTENITIC STAINLESS STEELS 67-09 M17-76380
HARDENING STEELS BY ELECTROMECHANICAL TREATMENT 67-09 M17-76553
EFFECT OF COLD DEFORMATION ON THE MECHANICAL PROPERTIES OF RIMMING REINFORCING STEEL BARS FOLLOWING ARTIFICIAL AGING 67-09 M17-76702
FATIGUE STRENGTH OF COLD WORKED 18/8 CR-NI AND OTHER AUSTENITIC ALLOY STEELS 67-09 M17-76905
EFFECT OF STRAIN CONDITIONS ON SOFTENING AND HEAT RESISTANCE OF NICKEL 67-09 M17-77291
YIELD-POINT DEPENDENCE UPON GLIDE-SYSTEM ORIENTATION 67-09 M17-77452
THE EFFECT OF VARYING STRAIN RATIO ON THE HYDRAULIC BULGING BEHAVIOUR OF ALUMINIUM SHEET 67-09 M17-77508
CREEP IN ROTATING DISKS IN TRANSIENT PERIOD 67-09 M17-77573
STUDY ON WARM WORKING. PT. 1. STRENGTHENING MECHANISM BY WARM WORKING OF STEEL 67-09 M17-78212
PRELIMINARY THERMOMECHANICAL TREATMENT OF PIPES 67-10 M10-78814
EFFECT OF HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT ON THE FINE STRUCTURE AND MECHANICAL PROPERTIES OF TITANIUM ALLOYS 67-10 M10-78815
VARIATION OF MECHANICAL PROPERTIES OF CARBON STEEL DUE TO AGING 67-10 M10-79856
INFLUENCE OF WELD THICKNESS ON THE STATIC STRENGTH OF SIDE FILLET WELDS 67-10 M11-79181
SIMILARITIES BETWEENTHE MARTENSITIC AND COLD WORKED STRUCTURES OF STEELS 67-10 M13-79947
HARDENING MECHANISMS IN A PRECIPITATION HARDENABLE NICKEL-12.71 AT. PER CENT ALUMINIUM ALLOY 67-10 M14-78911
MARTENSITIC TRANSFORMATION AT VERY LOW-TEMPERATURES IN 18-10 LOW-CARBON AUSTENITIC STEELS DURING WORK HARDENING AND CREEP 67-10 M14-79936
MEASUREMENT OF STRAIN HARDENING IN SHEET METALS 67-10 M17-78504
THE INFLUENCE OF GRAIN SIZE, TEMPERATURE AND PREFERRED ORIENTATION ON WORK HARDENING OF POLYCRYSTALLINE SILVER 67-10 M17-78687
COMBINED TREATMENT OF STEEL FOR HIGH STRENGTH 67-10 M17-78842
EFFECTS OF THE ELECTROTHERMAL METHOD OF TENSIONING ON THE MECHANICAL PROPERTIES OF 30KHG2S STEEL 67-10 M17-78939

STRAIN HARDENING

FATIGUE HARDENING OF CU-ZN ALLOYS
67-10 M17-79017
STRAIN HARDENING CRYSTALLINE SOLIDS BY PROGRAMMED LOADING
67-10 M17-79209
EFFECT OF WORKHARDENING AND LOADING CONDITIONS ON FATIGUE STRENGTH AND LONGEVITY
67-10 M17-79333
PLASTICITY OF CADMIUM AND ZINC WHISKER CRYSTALS
67-10 M17-79449
SECOND-ORDER STRAIN ACCUMULATION IN WORK-HARDENING MEDIA
67-10 M17-79566
ON THE WORK-HARDENING OF HCP METALS
67-10 M17-79731
FATIGUE SOFTENING AND HARDENING OF ANNEALED LOW-CARBON STEEL
67-10 M17-79769
THE FRAGILIZATION OF NIOBIUM BY HYDROGEN AT AMBIENT TEMPERATURES AND THE EFFECT OF STRAIN HARDENING
67-10 M17-79872
STRAIN HARDENING OF ZR SPECIMENS OF VARYING PURITY BY ROLLING AT AMBIENT TEMPERATURES
67-10 M17-79898
ON THE THEORY OF PLASTIC WAVE PROPAGATION IN A BAR
67-10 M17-80005
THE AGING BEHAVIOR OF PB-SB ALLOYS AT AMBIENT TEMPERATURE
67-11 M10-81030
STUDY OF THE EFFECT OF AGING AND DEFORMATION ON THE DISLOCATION STRUCTURE OF AUSTENITIC STEELS
67-11 M13-81429
THE BEHAVIOR OF RECRYSTALLIZATION OF PURE IRON AFTER HIGH-SPEED DEFORMATION
67-11 M14-80946
PHASE TRANSFORMATIONS AND CHANGE IN STRUCTURE DURING HEATING OF CR-MN-MO AUSTENITIC-MARTENSITIC STEEL
67-11 M14-81158
STRAIN AGING OF LIGHT STEEL SECTIONS
67-11 M17-80339
THE STRESS RELATIONSHIP IN STAGE B OF THE WORK HARDENING CURVE OF CD SINGLE CRYSTALS
67-11 M17-80368
ULTRASONIC WORK HARDENING OF FACE CENTERED CUBIC METALS AND ALLOYS
67-11 M17-80379
FURTHER DEVELOPMENT OF AN EXPONENTIAL RELATION FOR THE TENSILE WORK HARDENING OF STRUCTURAL ALLOYS
67-11 M17-80382
THE APPLICATION OF THERMOMECHANICAL TREATMENTS TO STEELS
67-11 M17-80685
THE PLASTIC ANISOTROPY RATIO R AND THE WORK HARDENING EXPONENT N IN RELATION TO THE DRAWABILITY OF SHEET METAL
67-11 M17-80716
STRAIN-HARDENING AND STRAIN-RATE EFFECTS IN PLASTIC FLOW THROUGH CONICAL CONVERGING DIES
67-11 M17-81025
THE AGING BEHAVIOR OF CU-4WT PER CENT TI ALLOY
67-11 M17-81060
MECHANICAL PROPERTIES OF NB-ZR SOLID SOLUTION ALLOYS
67-11 M17-81064
HARDNESS OF STRAINED METAL
67-11 M17-81160
FATIGUE HARDENING OF COPPER SINGLE CRYSTALS AT LOW STRESS AMPLITUDES
67-11 M17-81261
DEFORMATION AND FRACTURE OF GOLD-PLATINUM POLYCRYSTALS STRENGTHENED BY SPINOIDAL DECOMPOSITION
67-11 M17-81263
TENSILE AND CREEP PROPERTIES OF SINGLE CRYSTALS OF THE NICKEL-BASE SUPERALLOY MAR-M200
67-11 M17-81344
THERMAL STABILITY OF LATTICE DEFECTS IN NICKEL AND ITS SOLID SOLUTIONS
67-11 M17-81426
DYNAMIC DEFORMATION AGING OF CERTAIN METALS
67-11 M17-81427
INFLUENCE OF WORK HARDENING AND SOLUTION HEAT TREATMENT ON THE KINETICS OF SENSITIZATION OF AN 18-8 STEEL
67-11 M18-80242
NEW STRENGTHS FOR OLD METALS
67-12 M01-83002
PRELIMINARY THERMOMECHANICAL TREATMENT OF CARBON STEEL
67-12 M08-82413
INFLUENCE OF MULTIPLE THERMOMECHANICAL TREATMENT ON MECHANICAL PROPERTIES OF LOW CARBON STEEL
67-12 M10-83524
AN X-RAY DIFFRACTION STUDY OF POLYCRYSTALLINE BRASS DEFORMED IN TENSION
67-12 M13-82736
INFLUENCE OF DEFORMATION ON GRAIN BOUNDARY ATTACK AND THE INITIAL GRAIN BOUNDARY MIGRATION TEMPERATURE
67-12 M13-83496
OBSERVATION OF POLYGONIZATION AND TWO MECHANISMS OF RECRYSTALLIZATION DURING ANNEALING OF IRON OF ELECTROLYTIC PURITY PREVIOUSLY WORK HARDENED BY COMPRESSION
67-12 M14-82284
IMPROVING CREEP PROPERTIES OF MOLYBDENUM BY POLYGONIZATION TREATMENT
67-12 M17-81842
HARDENING OF POLYCRYSTALLINE REFRACTORY METALS AND ALLOYS
67-12 M17-81991
THE MECHANISM OF THE STRENGTHENING OF METALS DURING MECHANICAL-THERMAL TREATMENT
67-12 M17-82116
THE INFLUENCE OF STRAIN HARDENING ON THE HARDNESS AND THE STRUCTURE OF THE MAGNESIUM-ZINC ALLOY OF 6 PER CENT ZINC, QUENCHED AND THEN TEMPERED AT 250 C
67-12 M17-82234
HARDNESS CHANGE OF FERROUS MARTENSITE BY DEFORMATION
67-12 M17-82396
EFFECT OF LOCAL STRENGTHENING ON FATIGUE PROPERTIES OF NOTCHED ALUMINIUM ALLOY THIN-SHEET STRUCTURES
67-12 M17-82539
FRACTURE CONSIDERATIONS IN DEFORMATION PROCESSING
67-12 M17-82771
WORK HARDENING OF SAP AL ALLOYS, PLASTICALLY DEFORMED AT ROOM TEMPERATURE
67-12 M17-82814
STRENGTH AND WORK-HARDENING BEHAVIOR OF THE 100CR6 TOOL STEEL AS A FUNCTION OF HEAT TREATMENT
67-12 M17-82839
THE STRENGTH OF FERRITE AND OF MARTENSITE AS FUNCTIONS OF COMPOSITION, TEMPERATURE AND STRAIN RATE
67-12 M17-83063
A COMPARISON--PLANE STRAIN FRACTURE TOUGHNESS AND THE ISOTHERMAL FLOW PROPERTIES OF A STRUCTURAL STEEL
67-12 M17-83130
FATIGUE OF METALS--WHERE IT STANDS TODAY
67-12 M17-83236
A STUDY OF THE STRESS-STRAIN RELATIONSHIP IN THE WORK-HARDENING RANGE
67-12 M17-83238
A PLASTIC STRESS ANALYSIS OF CYLINDRICAL WAFERS UNDER ELASTICALLY DEFORMABLE COMPRESSION PLATES
67-12 M17-83250
THE NATURE OF THE DEFORMATION OF CERTAIN AUSTENITIC STEELS AT LOW TEMPERATURES
67-12 M17-83312
EROSION OF METALS BY SOLID PARTICLES
67-12 M18-81856
INFLUENCE OF HIGH-TEMPERATURE DEFORMATION AND SUBSEQUENT QUENCHING ON CORROSION AND MECHANICAL PROPERTIES OF AUSTENITIC CR-NI STEELS
67-12 M18-83523

STRAIN HARDENING, ALLOYING EFFECTS
WORK HARDENING DATA OF ALPHA-COPPER-TIN-ALLOYS
67-06 M17-71658
EFFECT OF MICROALLOYING WITH RARE EARTH ON THE STABILITY OF THERMAL STRENGTHENING OF STEEL
67-07 M10-73789
EFFECT OF ALLOYING ELEMENTS ON THE AUSTENITE PROPERTIES OF CR-NI STEELS
67-08 M17-75884
EFFECT OF MICROALLOYING WITH RARE METALS ON STABILITY OF THERMOMECHANICAL HARDENING OF STEEL
67-09 M04-76552
INFLUENCE OF THE ZINC CONTENT AND PRE-COLD WORK ON THE PLASTIC PROPERTIES OF POLYCRYSTALLINE ALPHA BRASSES
67-09 M17-77589
DEFORMATION OF SILVER-ZINC SINGLE CRYSTALS AS A FUNCTION OF ZINC CONCENTRATION
67-12 M17-82716

STRAIN HARDENING, HEATING EFFECTS
EFFECT OF HEAT TREATMENT AND ALLOYING ON THE COLD HARDENING OF MANGANESE HIGH-CARBON STEEL
67-11 M10-81378

STRAIN HARDENING, PRESSURE EFFECTS
EFFECTS OF HYDROSTATIC PRESSURE ON TERMINAL STRUCTURE AND MECHANICAL BEHAVIOR OF BERYLLIUM
67-06 M13-72224

STRAIN HARDENING, RADIATION EFFECTS
SOME NOTES ON THE STRENGTHENING MECHANISM IN NEUTRON IRRADIATED COPPER SINGLE CRYSTALS
67-02 M17-61504
ON THE STRENGTHENING MECHANISM IN NEUTRON IRRADIATED COPPER SINGLE CRYSTALS. PT. 1. ON EXPERIMENTS CONCERNING STRAIN RATE CHANGES
67-02 M17-61505
ON THE STRENGTHENING MECHANISM IN NEUTRON IRRADIATED COPPER SINGLE CRYSTALS. PT. 2. ANALYSIS OF THE THERMALLY ACTIVATED PROCESSES
67-02 M17-61506
HARDENING IN MILD STEEL AT HIGHER IRRADIATION TEMPERATURES
67-04 M17-67414
POINT DEFECT HARDENING OF ALUMINUM. PT. 2. ANALYSIS OF ELECTRON IRRADIATION EXPERIMENTS AT 23 K
67-12 M17-83060

STRAIN HARDENING, STRESS EFFECTS
SHARP YIELDING DUE TO WORK SOFTENING OF DYNAMICALLY PRESTRAINED SINGLE CRYSTALS OF MAGNESIUM
67-02 M17-60159
ON THE FATIGUE OF TENSILE PRESTRAINED MILD STEEL UNDER REPEATED ALTERNATING COMBINED STRESSES

67-04 M17-66898
STRAIN HARDENING, TEMPERATURE EFFECTS
FRACTURE MICROMECHANICS OF EXTRA-WORKHARDENED TYPE 301 STAINLESS 67-01 M17-58610
DYNAMIC STRAIN AGING OF ALPHA-BRASS 67-02 M14-61891
ON THE IMPACT DEFORMATION OF LIGHT METALS 67-05 M17-68862
THE PLASTICITY OF BETA AND BETA PRIME INTERMETALLIC COMPOUNDS 67-09 M17-77739
STRAIN RATE
PLASTICITY OF BODY-CENTERED CUBIC METALS AT HIGH STRAIN RATE 67-01 M17-58598
EFFECTIVE STRAIN RATES IN LOW-SPEED UNIAXIAL TENSIONAL TESTS 67-01 M17-58771
DEFORMATION RESISTANCE OF LEAD IN RELATION TO THE STRAIN-RATE FACTOR 67-02 M17-61558
AN EMPIRICAL EQUATION FOR THE STRAIN-RATE EFFECT ON ROLL SEPARATING FORCE IN COLD ROLLING 67-03 M07-65939
CREEP EXPERIMENTS ON HIGH-PURITY COPPER SINGLE CRYSTALS 67-03 M17-65226
THE INFLUENCE OF STRAIN RATE AND STRAIN AGEING ON THE FLOW STRESS OF COMMERCIALLY-PURE ALUMINIUM 67-04 M17-66505
COMMENT ON THE EFFECT OF CARBON ON THE STRAIN RATE SENSITIVITY OF IRON SINGLE CRYSTALS 67-04 M17-66545
REPLY TO COMMENT ON THE EFFECT OF CARBON ON THE STRAIN RATE SENSITIVITY OF IRON SINGLE CRYSTALS 67-04 M17-66546
THE EFFECT OF HIGH STRAIN RATE ON THE STRESS-STRAIN RELATIONSHIP OF ALUMINIUM 67-05 M17-69156
TESTING TECHNIQUES AT IMPACT RATES OF STRAIN 67-05 M17-69158
TEMPERATURE AND STRAIN RATE DEPENDENCE OF THE FLOW STRESS IN MOLYBDENUM 67-05 M17-69787
DETERMINATION OF STRESSES DURING HOT ROLLING OF CARBON STEELS 67-06 M07-70942
THE STRAIN-RATE SENSITIVITY OF THE YIELD STRESS OF STEELS 67-06 M17-70627
DEFORMATION OF ALUMINIUM AT HIGH TEMPERATURES AND STRAIN RATES 67-06 M17-71541
HIGH-ENERGY-RATE SHEET-METAL FORMING 67-07 M07-72999
EFFECT OF THE STRAIN RATE ON THE PLASTIC SHEARING BEHAVIOR OF A MILD STEEL HOLLOW CYLINDER --STUDY ON THE DEPENDENCE OF MECHANICAL PROPERTIES OF METALS UPON THE STRAIN RATE. PT. 3. -- 67-07 M17-72523
DEPENDENCE OF THE DISLOCATION DENSITY ON THE STRAIN RATE 67-07 M17-73322
THE APPLICATION OF STRAIN-RATE CYCLING DATA TO THERMALLY ACTIVATED DEFORMATION 67-07 M17-73914
RHEOLOGICAL PROPERTIES OF STEEL AND LEAD 67-08 M07-75879
STRUCTURAL CHANGES IN CHROMIUM DURING STRAIN 67-08 M14-75881
DEFORMATION OF POLYCRYSTALLINE ALUMINIUM AT HIGH STRAIN RATES 67-08 M17-75755
TEMPERATURE AND RATE DEPENDENCE OF STRAIN RESISTANCE OF NI-AU ALLOYS 67-08 M17-75880
THE STRAIN-RATE DEPENDENCE OF THE FLOW STRESS IN SOME ALUMINUM ALLOYS 67-08 M17-75969
AN INVESTIGATION OF THE DYNAMIC BEHAVIOR OF AN ANNEALED LOW CARBON STEEL BY MEANS OF STRESS PULSE AMPLIFICATION 67-10 M17-79308
BASAL DISLOCATION MOBILITY IN ZINC SINGLE CRYSTALS 67-11 M13-81540
THERMALLY ACTIVATED DEFORMATION OF ALPHA ZIRCONIUM 67-11 M14-81347
STRAIN GAGE FACTOR AND ELECTRICAL RESISTIVITY IN THE COLD WORKED STATE OF FE-NI-CR ALLOYS CONTAINING 35 WT PER CENT NI AND 0-20 WT PER CENT CR 67-11 M15-81070
THE EFFECT OF RATE OF STRAINING ON THE 0.2 PER CENT PROOF STRESS AND LOWER YIELD STRESS OF STEEL 67-11 M17-80259
METALLURGICAL ASPECTS OF FERRITIC BOLT STEELS 67-11 M17-80280
DEFORMATION OF COPPER SINGLE CRYSTALS AND POLYCRYSTALS AT HIGH STRAIN RATES 67-11 M17-80944
VARIATION OF YIELD STRESS WITH STRAIN AND STRAIN RATE IN MILD STEEL 67-11 M17-81022
METAL CUTTING AS A PROPERTY TEST 67-11 M17-81023
YIELD BEHAVIOR OF DISLOCATION-FREE GERMANIUM FROM 500 C. TO THE VICINITY OF THE MELTING POINT 67-11 M17-81084
THE RUPTURE BEHAVIOUR OF METALS AT HIGH STRAIN RATES 67-11 M17-81527
A THEORY FOR FLOW OF POLYCRYSTALS 67-11 M17-81599
STRESS AND STRAIN RATE DURING SOLIDIFICATION OF SPHERE CASTINGS 67-12 M06-83569
A DYNAMIC THEORY OF COHERENT PRECIPITATION HARDENING WITH APPLICATION TO NICKEL-BASE-SUPER-ALLOYS 67-12 M10-82720
AMPLITUDE-DEPENDENT PART OF THE INTERNAL FRICTION OF ALUMINUM 67-12 M17-82561
INFLUENCE OF PRESSURE UPON THE SINTERING KINETICS OF SILVER 67-12 M17-82579
RELATING THE FLOW STRESS OF ALUMINUM TO STRAIN, STRAIN RATE AND TEMPERATURE 67-12 M17-82718
LOW STRAIN RATE, HIGH STRAIN FATIGUE OF ALUMINUM AS A FUNCTION OF TEMPERATURE 67-12 M17-82855
RATE-SENSITIVE DEFORMATION IN TIN-LEAD ALLOYS 67-12 M17-82970
A COMPARISON--PLANE STRAIN FRACTURE TOUGHNESS AND THE ISOTHERMAL FLOW PROPERTIES OF A STRUCTURAL STEEL 67-12 M17-83130
STRAIN RATE, SENSITIVITY
ON SERRATED YIELDING AND NEGATIVE STRAIN-RATE SENSITIVITY 67-06 M17-71087
STRAIN SOFTENING
PRECIPITATION IN COPPER-HAFNIUM ALLOYS 67-04 M14-67569
WORK SOFTENING INDUCED YIELDING IN MAGNESIUM SINGLE CRYSTALS 67-06 M17-70792
STRUCTURE AND HARDNESS OF AUSFORMED OR DEFORMED FERROUS MARTENSITES 67-08 M17-75151
CYCLIC STRAIN-SOFTENING EFFECTS IN METALS 67-08 M17-75970
EFFECT OF STRAIN CONDITIONS ON SOFTENING AND HEAT RESISTANCE OF NICKEL 67-09 M17-77291
FATIGUE SOFTENING AND HARDENING OF ANNEALED LOW-CARBON STEEL 67-10 M17-79769
DEFORMATION AND CONTROLLED ANNEALING OF U-S3M --CU-3 PER CENT SI-1 PER CENT MN-- ALLOY SHEET 67-12 M17-83501
STRAINING
EFFECT OF CHROMIUM AND NICKEL ON ALPHA-PHASE FORMATION IN STRAINING AUSTENITIC STEELS 67-08 M14-75883
STRAY CURRENT CORROSION
CORROSION CONTROL STUDIES FOR A RAPID TRANSIT SYSTEM 67-02 M18-60251
STREAM DEGASSING
VACUUM DEGASSING OF STEEL--GENERAL PRINCIPLES OF DEGASIFICATION 67-02 M04-60524
VACUUM DEOXIDATION IN THE DEGASSING OF KILLED AND UNKILLED STEELS AT TAPPING 67-07 M04-72894
STREAM DEGASSING AS A METHOD TO IMPROVE QUALITY AND INCREASE PRODUCTION IN THE MELTING OF SPECIAL STEELS 67-08 M04-74352
STRENGTH
STRENGTH AND DUCTILITY OF CAST STEEL 67-02 M17-61804
STRENGTH AND STRUCTURE OF ENGINEERING MATERIALS 67-03 M17-65946
STRENGTH OF MULTILAYERED VACUUM CONDENSATES 67-05 M17-68578
STRENGTH AND TOUGHNESS OF CAST STEEL 67-09 M17-78076
STRENGTH OF MATERIALS
SEE MECHANICAL PROPERTIES
STRENGTHENING /SOLUTION/
SEE SOLUTION STRENGTHENING
STRESS
SEE STRESSES
STRESS AGING
SEE STRAIN AGING
STRESS ANALYSIS
SEE ALSO X RAY STRESS ANALYSIS
ANNALYTICAL DETERMINATION OF STRAIN FORCES IN TUBE EXTRUSION 67-01 M07-57316
USING A COMPUTER FOR STUDYING STRESSED AND STRAINED STATE WHEN WELDING STRUCTURES FROM NARROW PLATES 67-01 M11-58271
ON THE X-RAY INVESTIGATION OF INTERNAL STRESSES IN METALS ELECTROLYTICALLY DEPOSITED IN THE PRESENCE OF INHIBITORS. PT. 2. ON LATTICE DEFORMATIONS OF THE SECOND AND THIRD KIND AND THE COMPARISON OF THEM WITH HARDNESS TESTS 67-01 M17-57291
PROPORTIONAL-LIMIT STRESS OF TUNGSTEN SINGLE CRYSTALS 67-01 M17-57430

PROPERTIES OF MATERIALS. PT. 2. FIBRE-REINFORCEMENT --THE MECHANICS OF FIBRE-REINFORCED MATERIALS 67-01 M17-58589
PLASTICITY OF BODY-CENTERED CUBIC METALS AT HIGH STRAIN RATE 67-01 M17-58598
MEASUREMENT OF THE STATE OF STRESS IN SURFACE LAYERS FOLLOWING MACHINING 67-02 M08-60827
FATIGUE PROPERTIES AND STRESS ANALYSIS 67-02 M17-58977
APPLICATION OF BRITTLE COATING IN DIMENSIONING MACHINES EXPOSED TO COMPLEX LOADING 67-02 M17-59702
THE APPROXIMATION CALCULUS OF THE STRESS CONCENTRATION FACTORS OF PLATES WITH COVER STRAPS WELDED ON 67-02 M17-59703
THE OBSERVATION OF THE BRITTLE-DUCTILE TRANSITION IN STEEL AT STRESS WAVE ATTENUATION 67-02 M17-59712
THE DETERMINATION OF RESIDUAL WELDING STRESSES IN FUSION-WELDED BUTT WELDS --SWELL METHOD-- 67-02 M17-60508
DETERMINING THE STRESSED STATE OF MATERIALS BY ULTRASONICS 67-02 M17-60665
MECHANISM OF BRITTLE FRACTURE 67-02 M17-60706
THE CREEP TESTING OF METALS 67-02 M17-61600
DETERMINING RESIDUAL STRESSES IN COATINGS BUILT UP ON CYLINDERS AND DISKS 67-03 M17-65101
THE STRESS AND STRAIN DISTRIBUTION AT THE NECK OF A TENSILE SPECIMEN 67-03 M17-65197
BENDING FATIGUE STRENGTH OF GEARS 67-03 M17-65199
GEAR TOOTH STRESS OF AN END-RELIEVED SPUR GEAR 67-03 M17-65200
MULTIPLE SPECIMEN FATIGUE TESTING 67-03 M17-65407
STUDY OF THE STRESSED STATE IN THE DEFORMATION AREA DURING INGOT FORGING 67-04 M07-67042
RESIDUAL STRESSES IN ALUMINUM ALLOY WELDED JOINTS 67-04 M11-66838
THE STUDY, BY COMPUTER, OF THE STRESSED AND DEFORMED STATES IN STRUCTURES MADE OF WELDED NARROW PLATES 67-04 M11-67352
A VACUUM HOT STAGE STRAINING MICROSCOPE DESIGNED FOR DEFORMATION AND ENVIRONMENTAL STUDIES UP TO 1000 C 67-04 M13-66247
STRESS MEASUREMENTS DURING THE OXIDATION OF TANTALUM AND NIOBIUM 67-04 M17-66067
USE OF COMPUTERS FOR CALCULATING STRESS-STRAIN STATE OF ROLLING ROLLS. PT. 1 67-04 M17-66083
THE CYCLIC STRAINING OF MILD STEEL 67-04 M17-66150
EFFECT OF NOTCH ON DISTRIBUTION OF FIELDS OF TEMPERATURE STRESSES 67-04 M17-66428
CHARACTERISTICS OF THE DISTRIBUTION OF SURFACE RESIDUAL STRESSES IN WELDED PLATES MADE OF AVIAL ALLOY 67-04 M17-67003
APPLICATION OF DIGITAL COMPUTER TO DESIGN AND STRESS ANALYSIS OF HIGH PRESSURE VESSELS 67-04 M17-67213
HIGH TEMPERATURE STEELS. PT. 4 67-04 M17-67720
PROPOSAL TO MODIFY EQUATION FOR CALCULATION OF WELDED JOINTS 67-04 M17-68023
METHOD OF TESTING WELDED JOINTS AND UNITS, MAINLY FROM TITANIUM ALLOYS 67-04 M19-66835
TECHNIQUES OF DETERMINING AXIAL RESIDUAL STRESSES IN METAL SURFACE LAYERS 67-05 M13-68451
STRESS-STRAIN ANALYSIS OF METAL CRYSTALS BY THE DIVERGENT X-RAY BEAM METHOD 67-05 M17-68524
EDGEWISE COMPRESSIVE PROPERTIES OF TITANIUM AND NICKEL-BASE SANDWICH CONSTRUCTIONS AT ELEVATED TEMPERATURES 67-05 M17-68932
CONTRIBUTION TO THE STUDY OF THE PHENOMENON OF FRACTURE OF METALS 67-05 M17-69111
THE EFFECT OF STRAIN RATE ON THE STRESS-STRAIN RELATIONSHIP AND DUCTILITY 67-05 M17-69155
MEASUREMENT OF ELASTIC MICROSTRAIN OF POLYCRYSTALLINE TITANIUM 67-05 M17-69638
THEORETICAL STUDY OF THE UNEVENNESS OF DEFORMATION IN COLD LIGHT-GAGE SHEET ROLLING 67-06 M07-70284
DISTRIBUTION OF NORMAL STRESSES ON THE CONTACT SURFACE WHEN UPSETTING THIN PIECES 67-06 M08-70280
A METHOD OF STUDYING BULGING FORCES IN SHEET STAMPING 67-06 M08-70282
RESIDUAL DEFORMATIONS AND STRESSES IN CIRCULAR WELDS OF PLATES AND SHELLS 67-06 M11-71648
INTERNAL STRESS IN ELECTRODEPOSITS 67-06 M12-71070
LATTICE DEFECT RESEARCH BY KOSSEL TECHNIQUE AND DEFORMATION ANALYSIS 67-06 M14-71421
THE STRESSES IN A BULGING TUBE SUBJECTED TO INTERNAL PRESSURE AND AN ADDITIONAL AXIAL FORCE 67-06 M17-70263
STRESS ANALYSIS BY ULTRASONIC METHODS 67-06 M17-71175
WORK HARDENING DATA OF ALPHA-COPPER-TIN-ALLOYS 67-06 M17-71658
TRANSIENT ELASTIC WAVES IN ANISOTROPIC PLATES 67-06 M17-71714
SPALLATION IN 4340 STEEL 67-06 M17-71717
STUDY OF THE PROCESSES OF PLASTIC FORMING USING THE MOIRE METHOD 67-06 M19-70278
STUDY OF THE PROCESS OF MELTING IN A 1.5-TON CONVERTER WITH OXYGEN BLAST 67-07 M04-74044
CALCULATION OF FORCE AND DEFORMATION IN PRESSING SHAPED PROFILES 67-07 M07-73948
EXPERIMENTAL DETERMINATION OF CONTACT STRESSES IN PRESSING 67-07 M07-73949
HOT BACKWARD EXTRUSION OF SLEEVES WITH A THIN BOTTOM BY CYLINDRICAL AND TAPERED PUNCHES 67-07 M08-73950
DECREASING THE RESIDUAL DEFORMATIONS DURING ARC WELDING OF THERMALLY STRENGTHENED STEELS 67-07 M11-72734
INVESTIGATION OF INTERNAL STRESSES IN SN-NI COATINGS 67-07 M12-73652
COMPARISON OF CALCULATED AND MEASURED STRESSES FOR A TENSION BAR WITH WELDED-ON CIRCULAR STRAPS 67-07 M17-72424
ON THE DETERMINATION OF RESIDUAL STRESSES BY THE SACHS METHOD 67-07 M17-72675
EFFECTS OF NOTCHES ON THE DISTRIBUTION OF TEMPORARY THERMAL STRESS FIELDS 67-07 M17-72687
DETERMINATION OF THE RESIDUAL STRESSES IN COATINGS DEPOSITED ON CYLINDERS AND DISCS 67-07 M17-72791
FATIGUE AS A DESIGN CRITERION 67-07 M17-73216
STRESS-STRAIN STATE IN DEEP DRAWN PARTS OF COMPLEX CONFIGURATIONS 67-07 M17-73442
INTERNAL STRESS IN ELECTRODEPOSITS 67-07 M17-73626
THE DISTRIBUTION OF RESIDUAL STRESSES OF DEFORMED FACE CENTERED CUBIC METALS 67-07 M17-73850
EFFECT OF KINEMATIC CHARACTERISTICS ON THE TORSION MOMENT IN COLD ROLLING OF TUBES 67-08 M07-74333
INTER-ROLLER PRESSURE AND ROLL CAMBER IN FOUR-HIGH MILLS 67-08 M07-74335
EXPERIMENTAL INVESTIGATION OF STRESS DISTRIBUTION IN ROLL-FORMING STRIP ON ROLL-BENDING MILLS 67-08 M07-74580
SPECIFIC PRESSURE DISTRIBUTION IN STRIP WIDTH DURING ROLLING 67-08 M07-75008
EFFECT OF DEFORMATION CONDITIONS DURING ROLLING COPPER ON THE VALUE AND CHARACTER OF DISTRIBUTION OF STRESSES OF SECOND ORDER 67-08 M07-75009
PRACTICAL DETERMINATION OF DEEP-DRAWABILITY 67-08 M07-75505
INVESTIGATION OF THE DEFORMATION PROCESSES OF HOT CALIBER ROLLING OF STEEL USING PLASTICINE AS A MODEL MATERIAL 67-08 M07-75770
STUDY OF ENERGY-FORCE PARAMETERS IN FORMING CYLINDERS 67-08 M08-75481
STABILITY OF THE DRAWING PROCESS IN PLASTIC SHAPING OF ANISOTROPIC METAL 67-08 M08-75484
INVESTIGATION OF LATERAL PRESSURE UNDER SMALL PRESSING FORCE 67-08 M09-74303
ELASTIC AFTEREFFECT DURING PRESSING OF TWO-COMPONENT METAL-CERAMIC MATERIALS 67-08 M09-74304
STRESS ANALYSIS DURING ROLLING OF METAL POWDERS 67-08 M09-75425
EXPERIMENTAL DETERMINATION OF INTERNAL STRESSES IN BILAYER SHEET STEEL 67-08 M17-74584
EXPERIMENTAL STRESS ANALYSIS OF RAILS 67-08 M17-74680
LOW-TEMPERATURE DEFORMATION TECHNIQUES 67-08 M17-74698
INTERNAL STRESSES IN THIN FILMS 67-08 M17-74721
SURFACE STRESS DISTRIBUTION CHARACTERISTICS OF WELDED A VIAL ALLOY SLABS 67-08 M17-74762
TWINNING STRESS IN PRESTRAINED IRON SINGLE CRYSTALS 67-08 M17-75052
STRAIN RATES IN WIRE DRAWING AND TUBE MAKING

67-08 M17-75288
ENGINEERING APPLICATIONS OF BRITTLE FRACTURE RESEARCH 67-08 M17-75289
MEASURING STRESS ON MAGNETIC-HARD STEELS BY THE MAGNETO-ELASTIC METHOD 67-08 M17-75349
PROPAGATION OF LONGITUDINAL BRITTLE CRACKS IN INTERSECTING SEAMS 67-08 M17-75403
RESIDUAL STRESSES DUE TO DEFORMATION IN A CR STEEL FOLLOWING DIFFERENT SURFACE TREATMENTS 67-08 M17-75507
X-RAY METHOD FOR RESIDUAL STRESS MEASUREMENTS 67-08 M17-75518
THE STATE OF STRESSES IN THE CUTTING ZONE 67-08 M17-75567
STUDY OF THE MECHANISM OF STRAIN IN MGO COMPACTS DURING ROASTING 67-08 M17-75597
THE IMPORTANCE OF PROPERTIES OF MATERIALS TO THE DESIGNER 67-08 M17-75612
FAULTS IN DESIGN REVEALED BY SERVICE FAILURES. PT. 1 67-08 M17-75614
FAULTS IN DESIGN REVEALED BY SERVICE FAILURES. PT. 2 67-08 M17-75615
THE DETERMINATION OF THE ACTIVATION VOLUME DURING CHANGE OF THE CREEP RATE, PARTICULARLY IN AG SINGLE CRYSTALS 67-08 M17-75783
THE AXIAL ORIENTATION OF NORMAL STRESSES IN ZN AND SB SINGLE CRYSTALS 67-08 M17-75902
DEFORMATION PROPWETIES OF THE ALPHS PLUS BETA TITANIUM ALLOY, TIAL 8 MO 1 V 1 67-08 M17-76150
DETERMINATION OF THE STRESS DISTRIBUTION IN A CYLINDRICAL, TWO-PART LONGITUDINALLY PRESTRESSED PRESSING TOOL 67-08 M17-76299
EXPERIMENTAL MODEL-ASSISTED RESEARCH INTO STRESSED CONDITION OF A CONVERTER SHELL 67-09 M04-77755
EFFECT OF ROLLING SPEED OF A HARDENING ALLOY ON TANGENTIAL AND NORMAL STRESS PEAKS 67-09 M07-77129
THE EFFECT OF VARIATIONS IN THE WORKING OR BACKUP ROLL BALANCING POWER ON THE DISTRIBUTION OF STRIP TENSION OVER THE STRIP WIDTH IN THE COLD ROLLING OF WIDE STRIP 67-09 M07-77345
EFFECT OF THE STRESS CONDITION PRODUCED IN THE EXTRUSION VOLUME ON THE SHRINKAGE DURING SINTERING. PT. 2. CALCULATION OF THE STRESS CONDITION OF POWDERED-METAL SPECIMENS DURING SINTERING 67-09 M09-76568
STUDY OF INTERGRANULAR CAVITATION IN IRON BY ELECTRON MICROSCOPY OF FRACTURE SURFACES 67-09 M13-77933
THE CREEP OF SPHERICAL SHELLS CONTAINING DISCONTINUITIES 67-09 M17-76450
ANALYSIS OF RESIDUAL, THERMAL, AND LOADING STRESSES IN A B33 WHEEL AND THEIR RELATIONSHIP TO FATIGUE DAMAGE 67-09 M17-76460
CREEP IN ROTATING DISKS IN TRANSIENT PERIOD 67-09 M17-77573
STRESSES IN CIRCULAR SEAMS OF MULTILAMINAL PRESSURE VESSELS 67-09 M17-78121
ENGINEERING CONSIDERATIONS OF STRESS STRAIN AND STRENGTH 67-09 M17-78185
STAMPING OF VALVES WITH THE HOLLOW FOR A FILLER 67-10 M07-78545
FORCE ANALYSIS IN COMPRESSION AND EXTRUSION USING THE UPPER BOUND SOLUTION 67-10 M08-79785
ON THE ANALYSIS OF CREEP TESTS USING HELICAL SPRING SPECIMENS 67-10 M17-79338
RESIDUAL STRESSES AND STRAINS IN CIRCULAR WELDS IN PLATES AND SHELLS 67-10 M17-79617
RELATION BETWEEN INTERNAL STRESSES AND MECHANICAL PROPERTIES OF BRASS TUBES MADE BY COLD WORKING 67-10 M17-79744
MEASUREMENTS OF PRESSURE DISTRIBUTION IN THE DRAWING OF TUBES AND BARS 67-11 M07-81375
POWER PARAMETERS IN ROLLING TUBES ON A SHORT MANDREL 67-11 M07-81655
STRESSES DURING MARTENSITIC TRANSFORMATION OF AUSTENITIC STAINLESS STEELS 3KH13 AND 4KH13 67-11 M14-80961
BASIC STUDIES OF IRRADIATION EFFECTS IN FUEL MATERIALS 67-11 M16-80465
CONTRIBUTION TO THE STUDY OF THE HALL AND PETCH FORMULA IN POLYCRYSTALLINE IRON 67-11 M17-80244
THE IMPORTANCE OF THE INTERNAL STRESS IN GRAY AND SPHEROLITIC CAST IRON 67-11 M17-80498
STRESS AND STRAIN RATE DURING SOLIDIFICATION OF SPHERE CASTINGS 67-12 M06-83569
FORMATION OF HOT CRACKS WHEN FINISHING ARC WELDING AT AN INCREASED SPEED 67-12 M11-81909
REDUCTION OF RESIDUAL DEFORMATIONS WHEN WELDING HARDENABLE STEELS 67-12 M11-82313
INFLUENCE OF PREHEATING ON RESIDUAL STRESSES IN STEAMPIPES OF 1KH18N9T STAINLESS STEEL 67-12 M11-83188
EFFECT OF ANNEALING TEMPERATURE ON AMOUNT OF RESIDUAL STRESSES AND PROPERTIES OF OT4 TI-ALLOY WELDED JOINTS 67-12 M11-83192
CALCULATING TEMPERATURE STRESSES IN PLATE-SHAPED CAST IRON CASTINGS 67-12 M17-81724
NEW ACCURATE PROCEDURE FOR SINGLE SHEAR TESTING OF METALS 67-12 M17-81852
THE PROPAGATION OF LONGITUDINAL BRITTLE CRACKS IN INTERSECTING WELDS 67-12 M17-82024
ELASTIC DEFORMATION OF LATTICE UNDER CREEP CONDITIONS 67-12 M17-82350
ELASTIC DEFORMATION OF RUBBING SURFACES 67-12 M17-82434
A SERIES FORM OF CORRECTION TO STRESSES MEASURED USING X-RAY DIFFRACTION 67-12 M17-82583
FLOW AND FRACTURE IN METALS 67-12 M17-82661
THE EFFECT OF THERMOMECHANICAL TREATMENTS ON THE ELASTIC STORED ENERGY IN TD NICKEL 67-12 M17-82956
CONSTANT-LOAD CREEP DATA INTERPRETED IN TERMS OF THE STRESS DEPENDENCE OF DISLOCATION VELOCITY 67-12 M17-82961
THE EFFECT OF THE SURFACE LAYER STRESS ON TRANSIENT CREEP OF POLYCRYSTALLINE ALUMINUM 67-12 M17-83049
STRESS FIELD INTENSITY FACTORS FOR PROPAGATING BRITTLE CRACKS 67-12 M17-83486

STRESS ANALYSIS
TORSION CREEP OF CIRCULAR AND NONCIRCULAR TUBES
TORSION CREEP OF CIRCULAR AND NONCIRCULAR TUBES 67-12 M17-83568

STRESS CONCENTRATION
ON THE YIELD POINT OF MILD STEEL 67-02 M17-58803
YIELD POINT OF MILD STEEL UNDER SHARPLY CONCENTRATED STRESS 67-02 M17-58809
ENDURANCE LIMIT UNDER COMBINED ROTATING BENDING AND STATIC TENSION 67-02 M17-58813
FATIGUE UNDER CYCLIC TORSION AND ROTATING BENDING 67-02 M17-58814
ON THE STRESS-STRAIN RELATION IN PLASTIC RANGE 67-02 M17-58819
THE APPROXIMATION CALCULUS OF THE STRESS CONCENTRATION FACTORS OF PLATES WITH COVER STRAPS WELDED ON 67-02 M17-59703
INFLUENCE OF THE VARIOUS SHAPES OF STRESS SPECTRA ON FATIGUE STRENGTH OF MATERIALS 67-02 M17-59708
STRENGTH TESTS ON BRITTLE MATERIALS WITH PARTICULAR REFERENCE TO CAST IRONS 67-02 M17-59714
THE STRESS AND STRAIN DISTRIBUTION AT THE NECK OF A TENSILE SPECIMEN 67-03 M17-65197
WHAT TO LOOK FOR IN SPRING WIRE 67-03 M17-65978
RESIDUAL STRAINS AND DISPLACEMENTS WITHIN THE PLASTIC ZONE AHEAD OF A CRACK 67-04 M17-66291
EFFECT OF NOTCH ON DISTRIBUTION OF FIELDS OF TEMPERATURE STRESSES 67-04 M17-66428
STRESS CONCENTRATION IN BUTT WELDS 67-04 M17-66429
ALTERNATE LOADING RESISTANCE OF HIGH-STRENGTH STRUCTURAL STEEL 67-04 M17-66430
THE EFFECTS OF STRESS RAISERS ON THE EFFICIENCY OF WELDED STRUCTURES 67-04 M17-66515
PREDOMINANT CASES AND REASONS OF BRITTLE FAILURE 67-06 M11-71846
STRESS INTENSITY FACTORS FOR HOLLOW CIRCUMFERENTIALLY NOTCHED ROUND BARS 67-06 M17-71633
TENSILE STRENGTH OF NICKEL WHISKERS 67-06 M17-71976
CHARACTERISTICS OF BRITTLE FAILURES IN WELDED ROLLING STOCK AND PREVENTIVE MEASURES 67-07 M11-72736
EFFECTS OF NOTCHES ON THE DISTRIBUTION OF TEMPORARY THERMAL STRESS FIELDS 67-07 M17-72687
STRESS CONCENTRATION IN BUTT JOINTS 67-07 M17-72688
CAPACITY OF HIGH TENSILE STRUCTURAL STEEL FOR RESISTING ALTERNATING LOADS 67-07 M17-72689

STRESS CONCENTRATION

INVESTIGATION OF THE DEFORMATION PROCESSES OF HOT CALIBER ROLLING OF STEEL USING PLASTICINE AS A MODEL MATERIAL 67-08 M07-75770
FATIGUE FAILURE OF COMPONENTS OF LIFTING MACHINERY 67-08 M17-74502
COMPUTER APPLICATION TO THE VISIOPLASTICITY METHOD 67-09 M07-76463
THE STRESS CONCENTRATION SUSCEPTIBILITY OF LOW CARBON STEEL WELDED JOINTS DURING LOAD CYCLING 67-11 M17-80646
PLASTIC-STRAIN DISTRIBUTION AT THE ROOT OF A SHARP NOTCH 67-11 M17-80652
WIDESPREAD CASES OF BRITTLE FRACTURE AND THEIR CAUSES 67-11 M17-80878
PREVENTING BRITTLE FRACTURES OF WELDED STRUCTURES IN ROLLING STOCK 67-12 M11-82315
THE IMPORTANCE OF TWINNING FOR THE DUCTILITY OF CPH POLYCRYSTALS 67-12 M13-82739
THE STATIC STRENGTH OF ALUMINIUM ALLOY SHEET SPECIMENS CONTAINING BLUNT NOTCHES 67-12 M17-82474
CORROSION FATIGUE STRENGTH OF DURALUMIN IN THE PRESENCE OF STRESS CONCENTRATORS 67-12 M18-82187

STRESS CONCENTRATION, WELDING EFFECTS
RESIDUAL STRESSES AND STRAIN ENERGY IN BUTT WELDS 67-09 M17-77815

STRESS CORROSION
WELDABILITY OF HIGH-STRENGTH ALUMINUM ALLOYS 67-01 M17-57223
STRESS-CORROSION CRACKING AND HYDROGEN-STRESS CRACKING OF HIGH-STRENGTH STEEL 67-01 M18-57202
THE EFFECT OF INTERNAL STRESSES, ESPECIALLY UPON STRESS CORROSION 67-01 M18-58296
PRACTICAL TESTING OF STEELS IN EQUIPMENT CONSTRUCTION 67-02 M17-60019
EFFECT OF DEFORMATION ON INTERCRYSTALLINE CORROSION OF TYPE 18-8 STAINLESS STEEL 67-02 M18-60066
ON THE MECHANISM OF STRESS CORROSION 67-02 M18-60215
SURFACE COLD ROLLING OF MARINE PROPELLER SHAFTS 67-02 M18-60720
CORROSION FATIGUE OF STEEL DURING CYCLIC BENDING AND TORSION 67-02 M18-60967
INFLUENCE OF THE CHEMICAL COMPOSITION OF DEOXIDIZER ON THE STRENGTH OF CAST STEEL IN CORROSIVE MEDIUM 67-02 M18-60970
CORROSION CRACKING RESISTANCE OF CR-MN STEELS AND ALLOYS IN MOLTEN CHLORIDES 67-02 M18-61257
CORROSION OF BERYLLIUM BY SALT WATER 67-03 M18-65476
EFFECT OF A METHOD OF FEEDING CORROSIVE LIQUIDS ON THE CORROSION RESISTANCE OF AN ALUMINUM ALLOY 67-04 M18-66198
EFFECT OF HEAT TREATMENT ON STRESS CORROSION CRACKING OF CARBON STEEL 67-04 M18-66861
INVESTIGATION OF THE STRESS CORROSION OF AUSTENITIC STEELS IN MGCL3 SOLUTIONS 67-04 M18-67206
THE TESTING OF WELDS FOR INTERCRYSTALLINE STRESS CORROSION 67-04 M18-67705
BRITTLE FRACTURE OF STEEL IN ACID MEDIUM 67-04 M18-67839
METHOD OF TESTING WELDED JOINTS AND UNITS, MAINLY FROM TITANIUM ALLOYS 67-04 M19-66835
THE STRESS CORROSION OF METALS 67-05 M18-68395
STRESS-CORROSION OF EXPLOSIVELY DEFORMED HIGH STRENGTH ALLOYS 67-05 M18-68713
INVESTIGATION OF THE POSSIBLE PREVENTION OF THE STRESS CORROSION OF BRASS BY NONMETALLIC INORGANIC AND ORGANIC COATINGS 67-05 M18-68921
EFFECT OF CALORIZING ON FATIGUE AND CORROSION FATIGUE OF 45 CARBON STEEL 67-05 M18-69005
INFLUENCE OF COPPER AND CHROMIUM ON CORROSION PROPERTIES OF AL-ZN-MG ALLOYS 67-05 M18-69006
EFFICIENCY OF THE USE OF SURFACE HARDENING FOR INCREASING FATIGUE AND CORROSION FATIGUE RESISTANCE OF SOME STAINLESS STEELS 67-05 M18-69014
EFFECTS OF ADDING SMALL AMOUNTS OF COPPER AND SILVER ON THE CORROSION OF AL-ZN-MG SYSTEM ALLOYS 67-05 M18-69053
STRESS CORROSION OF BERYLLIUM IN SYSTHETIC SEA WATER 67-05 M18-69474
WEAR CONSIDERATIONS IN DESIGN 67-06 M17-70698
TREATMENT INCREASES STRESS-CORROSION RESISTANCE OF ALUMINUM ALLOYS 67-06 M18-70014
THE EFFECT OF THE NATURE OF THE CATHODE PROCESS ON STRESS-CORROSION CRACKING OF HIGH-STRENGTH STEELS 67-06 M18-70178
INVESTIGATION OF THE TENDENCY OF HIGH-STRENGTH ALUMINUM ALLOYS TO STRESS CORROSION 67-06 M18-70191
THE PROBLEM OF AUSTENITIC STEELS WHICH ARE RESISTANT TO CORROSION CRACKING 67-06 M18-71109
THE STUDY OF UNDERWATER CORROSION OF STAINLESS STEELS AND NICKEL BASE ALLOYS 67-06 M18-71502
INFLUENCE OF LOADING FREQUENCY ON ENDURANCE OF V95 ALUMINUM ALLOY IN THE PRESENCE OF SURFACTANTS 67-07 M18-73169
INFLUENCE OF THE ACIDITY OF CORROSION MEDIUM AND POLARIZATION CONDITIONS ON CRACK PROPAGATION KINETICS IN QUENCHED U8 STEEL 67-07 M18-73170
TRANSGRANULAR CORROSION AND CORROSION CRACKING OF 18-9 AND 18-12 TYPES OF STAINLESS STEELS WITHOUT TI AND CB ADDITIONS 67-07 M18-73171
THE FATIGUE STRESS CORROSION OF METALLIC MATERIALS. PT. 9. PASSIVATION AND ACTIVATION PROCESSES IN THE FATIGUE STRESS CORROSION OF STAINLESS STEELS 67-07 M18-73177
THE CORROSION SUSCEPTIBILITY OF PRESTRESSED HIGH-STRENGTH STEEL WIRE 67-07 M18-73229
ELECTROCHEMICAL CORROSION IN HIGH-PRESSURE TECHNOLOGY 67-07 M18-73727
A SYSTEMATIC INVESTIGATION OF THE POSSIBILITY OF PREVENTING THE STRESS CORROSION OF BRASS BY ELECTROLYTIC COATING. PT. 2. DISCUSSION AND EVALUATION OF EXPERIMENTAL RESULTS 67-08 M18-75669
CORROSION RESISTANCE OF TITANIUM IN THE CHEMICAL INDUSTRY 67-08 M18-76295
INFLUENCE OF BORIDING ON SOME PHYSICAL AND MECHANICAL PROPERTIES OF STEEL 45 67-09 M17-76436
STRESS CORROSION OF ARMCO IRON IN ACID MEDIUM 67-09 M18-76430
USE OF ACID CORROSION INHIBITORS FOR CORROSION PROTECTION OF HIGH-STRENGTH CARBON STEELS 67-09 M18-76433
CORROSION RESISTANCE OF LEAD IN SULPHURIC ACID UNDER STATIC AND ALTERNATING STRESS 67-09 M18-76613
NEW PROCESS SOLVES NITRATE CORROSION 67-09 M18-77376
COMPATIBILITY OF ATLAS MATERIALS WITH FLUORINE PROPELLANTS 67-09 M18-77564
STRESS CORROSION RESISTANCE OF AN ELECTROLYTICALLY ALUMINIZED STEEL 67-09 M18-78040
POSSIBLE PREVENTION OF THE STRESS CORROSION OF BRASS BY ACTIVE PROTECTION 67-09 M18-78177
NONSTANDARDIZED AUSTENITIC STAINLESS STEELS 67-10 M18-79928
STRESS CORROSION OF 70/30 BRASS TUBES WITH TENSILE AND COMBINED TENSILE AND HOOP STRESSES 67-10 M18-80011
STRESS CORROSION OF EXPLOSIVELY DEFORMED HIGH-STRENGTH ALLOYS 67-11 M18-80296
CORROSION CRACKING OF HIGH-STRENGTH STRUCTURAL STEELS 67-11 M18-80583
CORROSION CRACKING OF KH17N2 AND KH17N5M3 STAINLESS STEELS IN CHLORIDE SOLUTIONS 67-11 M18-80585
THE NATURE OF BRITTLE FRACTURE OF IRON AND STEEL IN ACID MEDIA 67-11 M18-81292
ATMOSPHERIC STRESS CORROSION TESTING OF ALUMINUM ALLOYS 67-12 M18-82452
EFFECT OF SILICON ON THE STACKING FAULT ENERGY OF 18 PER CENT CR-10 PER CENT NI STAINLESS STEEL 67-12 M18-82590
ENERGY THEORY OF INTERNAL CORROSION. INTERDEPENDENCE OF CORROSION AND STATES OF STRESS 67-12 M18-83215
LOW ALLOY STEELS RESISTANT TO NITRATES AND TO STRESSES 67-12 M18-83511

STRESS CORROSION, ALLOYING EFFECTS
THE EFFECT OF AL-CR AND AG-ZR ADDITIONS ON THE MECHANICAL PROPERTIES AND STRESS CORROSION BEHAVIOR OF HIGH-STRENGTH ALZNMGCU ALLOYS 67-06 M18-71984
INFLUENCE OF BORON ON STRESS CORROSION RESISTANCE OF KH18N12B STEEL IN MGCL2 SOLUTION 67-07 M18-73660
THE INFLUENCE OF IRON ON THE PROPERTIES OF AL-ZN-MG FOUNDRY ALLOYS 67-09 M18-78043

STRESS CORROSION, CORROSION ENVIRONMENTS
DONT DISCOUNT STEEL FOR DESALINATION PLANTS 67-07 M18-73800

STRESS CORROSION, HEATING EFFECTS
EFFECT OF HEAT TREATMENT ON PROPERTIES OF SHEETS MADE OF ALLOY VD1 67-04 M17-67534
DUPLEX AGING--THE WAY TO STRONG, CORROSION RESISTANT ALUMINUM ALLOYS 67-08 M10-74495
POLARIZATION AND STRESS-CORROSION STUDIES OF AN AL-CU-MG ALLOY 67-09 M18-76643
SPECIAL PROPERTIES IMPARTED TO AUSTENITIC STAINLESS STEELS BY BRIGHT ANNEALING 67-10 M10-78324

STRESS CORROSION, STRESS EFFECTS
STUDY OF THE EFFECT OF PLASTIC DEFORMATION DURING INTERMITTENT AGING ON THE STRUCTURE AND PROPERTIES OF AN ALUMINUM-MAGNESIUM ALLOY 67-04 M17-67385

STRESS CORROSION CRACKING
ELECTROCHEMICAL STUDY ON STRESS CORROSION CRACKING OF ALPHA BRASS 67-01 M18-57452
CORROSION BEHAVIOR OF STEEL WELDMENTS 67-01 M18-58394
EFFECT OF GRAIN SIZE ON STRESS CORROSION OF TYPE 302 AUSTENITIC STAINLESS STEEL 67-01 M18-58483
MICROPROCESSES IN STRESS CORROSION OF MARTENSITIC STEELS 67-01 M18-58512
SENSITIVITY TO STRESS CORROSION AND INTERGRANULAR ATTACK OF HIGH-NICKEL AUSTENITIC ALLOYS 67-01 M18-58513
INFLUENCE OF INHIBITORS ON CORROSION CRACKING OF HIGH-STRENGTH STEELS 67-01 M18-58704
HYDROGENATION OF STEEL DURING CATHODE POLARIZATION IN ALKALI SOLUTIONS 67-01 M18-58713
A CASE HISTORY OF TITANIUM STRESS CORROSION IN NITROGEN TETROXIDE 67-01 M18-58728
INFLUENCE OF AGING ON DELAYED FRACTURE OF WELDED JOINTS OF AL-ZN-MG ALLOYS 67-02 M17-59765
CORROSION RESISTANCE OF GOLD 67-02 M18-58908
CAUSES OF STRESS-CORROSION CRACKING 67-02 M18-59481
SUSCEPTIBILITY TO SULFIDE CORROSION CRACKING IN VARIOUS KINDS OF HIGH-STRENGTH STEEL. STUDIES ON SULFIDE CORROSION CRACKING OF WELDABLE HIGH-STRENGTH STRUCTURAL STEEL. PT. 1 67-02 M18-60268
EMBRITTLEMENT OF WELDABLE HIGH-STRENGTH STRUCTURAL STEELS BY SULFIDE CORROSION. PT. 2 67-02 M18-60269
THE EFFECT OF DESIGN CONSIDERATIONS ON THE CORROSION RESISTANCE OF WELDED JOINTS 67-02 M18-60616
SIZE FACTOR IN CORROSION FATIGUE OF ALUMINUM ALLOY D1 67-02 M18-60969
CORROSION AND COMPATIBILITY 67-02 M18-61113
EFFECT OF STRUCTURAL PARAMETERS ON STRESS-CORROSION RESISTANCE OF WROUGHT P-AZ 5, 8 GC-UNI 3735 ALLOY 67-02 M18-62100
FAILURE-SAFE CASTING DESIGN 67-03 M17-65833
STRESS CORROSION IN THE GRIDS OF THE LEAD-ACID STORAGE BATTERY 67-03 M18-65419
ON THE MECHANISM OF STRESS CORROSION CRACKING IN AUSTENITIC STAINLESS STEELS 67-03 M18-65844
MECHANISM OF INTERGRANULAR STRESS CORROSION CRACKING IN 70 CU-30 ZN ALLOY 67-03 M18-65845
THE CHARACTERISTICS OF TRANSGRANULAR STRESS-CORROSION CRACKING 67-03 M18-65997
THE NATURE OF STRESS-CORROSION CRACK INITIATION WITH MARTENSITIC STAINLESS STEELS 67-03 M18-65998
SOME ASPECTS OF STRESS-CORROSION CRACK PROPAGATION IN MILD STEEL 67-04 M18-66692
CONCERNING THE POSSIBLE ROLE OF ADSORBED STEP-POISONS IN STRESS-CORROSION CRACKING 67-04 M18-66694
STRESS CORROSION EXPERIMENTS ON UNPROTECTED MS 63 BRASS AFTER VARIOUS DEGREES OF COLD WORK 67-04 M18-67083
ELECTRON FRACTOGRAPHY PINPOINTS CAUSE OF FATIGUE FRACTURE 67-05 M13-68677
HYDRIDE FORMATION IN CORRODED TITANIUM ALLOYS 67-05 M18-68640
INFLUENCE OF RESIDUAL STRESSES ON CORROSION CRACKING OF AUSTENITIC STAINLESS STEELS 67-05 M18-69007
STUDY ON THE PITTING IN ROLLING CONTACT. PT. 1. ON THE MECHANISM OF THE PITTING OCCURRENCE 67-05 M18-69371
IMPROVING THE CAUSTIC BRITTLENESS RESISTANCE OF WELDED VESSELS 67-05 M18-69402
RELATIONSHIPS BETWEEN ELECTROCHEMICAL MEASUREMENTS AND STRESS CORROSION CRACKING OF MARAGING STEEL 67-05 M18-69473
THE INFLUENCE OF AUSFORMING ON THE STRESS CORROSION SUSCEPTIBILITY OF SOME HIGH-STRENGTH STEELS 67-05 M18-69599
THE INHIBITION OF PITTING AND STRESS-CORROSION CRACKING OF MG-AL ALLOYS BY NO3 67-05 M18-69707
COMPARATIVE STUDY OF CORROSION CRACK RESISTANCE OF OKH21N5T AND KH18N10T STAINLESS STEELS 67-05 M18-69822
STRESS CORROSION CRACKING OF SOME HIGH-STRENGTH STEELS, 67-05 M18-69823
HYDROGEN CORROSION OF STRESSED METAL 67-05 M18-69829
INVESTIGATION OF CONDITIONS OF STRESS IN STRESS CORROSION TESTING SPECIMENS WITH CONSTANT DEFORMATION 67-06 M17-71177
THE EFFECT OF MOISTURE ON SLOW CRACK GROWTH IN THIN SHEETS OF SAE 4340 STEEL UNDER STATIC AND REPEATED LOADING 67-06 M17-71630
ON THE SULPHIDE CORROSION CRACKING OF HIGH STRENGTH STEEL OWING TO H2S IN CHEMICAL PLANTS 67-06 M17-72068
CORROSION CRACKING OF HIGH-STRENGTH STEELS IN ACIDS 67-06 M18-70192
STABILIZED STEELS RESISTANT TO CORROSION CRACKING 67-06 M18-70203
A CONTRIBUTION TO THE EXAMINATION OF STRESS CORROSION CRACKING OF AUSTENITIC STAINLESS STEELS IN MAGNESIUM CHLORIDE SOLUTIONS 67-06 M18-70482
PREVENTION OF VANADIUM PENTOXIDE ATTACK OF REFORMER TUBES BY MAGNESIUM COMPOUNDS 67-06 M18-70543
CORROSION OF MILD STEEL DUE TO IMPINGEMENT IN THE MAKE-GAS STREAM 67-06 M18-70544
THE ROLE OF YIELDING IN STRESS-CORROSION CRACKING 67-06 M18-70630
STRESS-CORROSION CRACKING OF COLD-REDUCED AUSTENITIC STAINLESS STEELS 67-06 M18-71591
HYDROGEN-STRESS RELATIONSHIPS 67-06 M18-72335
STEAM-METHANE REFORMING PROBLEMS--STRESS CORROSION CRACKING IN PRIMARY CONVERSION 67-06 M18-72337
DIRECTIONALITY OF SULFIDE CORROSION CRACKING ON THE HIGH-STRENGTH STEEL PLATE. STUDIES ON SULFIDE CORROSION CRACKING OF WELDABLE HIGH-STRENGTH STEELS. PT. 3 67-07 M17-72525
SULFIDE CORROSION CRACKING OF WELDABLE HIGH STRENGTH STEEL PLATES IN OIL REFINING PLANTS 67-07 M17-72526
CORROSION CRACKING OF THE COOLER OF KH18N10T STAINLESS STEEL USED IN MANUFACTURING SULFURIC ACID 67-07 M18-73198
ELECTROCHEMICAL INVESTIGATION OF STRESS CORROSION CRACKING AND ITS PRACTICAL APPLICATION 67-07 M18-73696
KINETIC FEATURES OF STRESS-CORROSION CRACKING 67-07 M18-73697
ELECTROCHEMICAL CORROSION IN HIGH-PRESSURE TECHNOLOGY 67-07 M18-73727
SOME FACTORS AFFECTING THE INITIATION AND PROPAGATION OF CORROSION-FATIGUE CRACKS IN A HIGH CARBON STEEL 67-07 M18-74163
PRACTICAL CORROSION PROBLEMS IN RELATION TO WELDED JOINTS. PT. 2. CORROSION PROBLEMS IN DESIGN 67-08 M11-74702
FAILURE OF NON-MAGNETIC ROTOR BANDING WIRE FROM STRESS-CORROSION 67-08 M17-74507
INTERGRANULAR FAILURE OF AUSTENITIC STEEL PUMP SPINDLE 67-08 M17-74508
THE POTENTIAL DANGER OF CENTRIFUGE BASKETS 67-08 M17-74510
INFLUENCE OF AGING ON RETARDED DESTRUCTION OF WELDED JOINTS OF THE AL-ZN-MG SYSTEM 67-08 M17-76123
MECHANISM OF STRESS CORROSION CRACKING OF FACE CENTERED CUBIC ALLOYS 67-08 M18-74409
STUDY OF THE SULFIDE STRESS-CORROSION CRACKING OF HIGH STRENGTH STEEL. PT. 2. ELECTROCHEMICAL BEHAVIOR OF STEELS IN HYDROGEN SULFIDE AQUEOUS SOLUTION 67-08 M18-74678
PRACTICAL CORROSION PROBLEMS IN RELATION TO WELDED JOINTS. PT. 1. SPECIAL CHARACTERISTICS OF THE WELDING PROCESS WHICH CAN CAUSE CORROSION

PROBLEMS 67-08 M18-74701
CORROSION CONTROL AT WELDED JOINTS IN CONSTRUCTIONAL STEELS 67-08 M18-74703
CORROSION OF MECHANICAL JOINTS IN ALUMINIUM AND ALUMINIUM-STEEL STRUCTURES 67-08 M18-74704
RECOGNITION OF CORROSION HAZARDS TO METALS IN BUILDING 67-08 M18-74705
RESISTANCE TO CORROSION AND STRESS CORROSION 67-08 M18-74808
CORROSION TESTING TITANIUM 67-08 M18-75059
ROLE OF SLIP STEP EMERGENCE IN THE EARLY STAGES OF STRESS CORROSION CRACKING IN FACE CENTERED IRON-NICKEL-CHROMIUM ALLOYS 67-08 M18-75773
STRESS CORROSION CRACKING OF HIGH-STRENGTH STEELS AND TITANIUM ALLOYS IN CHLORIDE SOLUTIONS AT AMBIENT TEMPERATURE 67-08 M18-75775
CONTRIBUTION TO THE INVESTIGATION OF A CORRELATION BETWEEN NOTCH SENSITIVITY AND SENSITIVITY TO STRESS CORROSION IN THE PRESENCE OF HYDROGEN IN THE CASE OF CERTAIN STEELS 67-08 M18-76221
STRESS CORROSION CRACKING OF TITANIUM ALLOYS. PT. 1. TI..8-1-1 ALLOY IN AQUEOUS SOLUTIONS 67-09 M18-76623
SULFIDE CORROSION CRACKING OF WELDABLE HIGH-STRENGTH STRUCTURAL STEEL AND COUNTERMEASURES 67-09 M18-77097
CORROSION AND COMPATIBILITY 67-09 M18-78163
THE INFLUENCE OF FORGING CONDITIONS IN DIE FORGING PRACTICE ON THE MECHANICAL PROPERTIES OF TITANIUM-ALLOY DIE FORGINGS 67-10 M07-79956
EVALUATING ALLOYS FOR FAILURE-SAFE STRUCTURES 67-10 M17-78763
INNER SPACE--A METALLURGICAL CHALLENGE 67-10 M17-79781
STRESS CORROSION IN ALUMINUM ALLOYS 67-10 M18-78474
IMPROVING THE RESISTANCE OF WELDED CONTAINERS TO ALKALINE BRITTLENESS 67-10 M18-78506
THE STRESS CORROSION FRACTURE OF HEAT TREATED STEEL EXPOSED TO NH4SCN SOLUTIONS 67-10 M18-78920
STRESS CORROSION CRACKING OF AUSTENITIC STAINLESS STEELS IN REFINERIES 67-10 M18-79371
STRESS-CORROSION CRACKING--ITS SIGNIFICANCE IN THE ELECTRICAL ENGINEERING INDUSTRY 67-10 M18-79802
FUNDAMENTAL PRINCIPLES OF CORROSION 67-10 M18-79804
MECHANISM OF CORROSION CRACKING OF STRAINED METAL, INTERACTING WITH MOLTEN LITHIUM 67-11 M18-80580
PREVENTING STRESS-CORROSION CRACKING IN THREADED FASTENERS 67-11 M18-81194
INFLUENCE OF THE TYPE OF CORROSION MEDIUM ON THE CORROSION-CRACKING SUSCEPTIBILITY OF AMG-6 ALUMINUM ALLOYS 67-11 M18-81278
INTERACTION OF DISLOCATIONS WITH COHERENT PARTICLES AND STRESS CORROSION CRACKING OF HIGH-STRENGTH ALUMINUM ALLOYS 67-12 M18-82016
STRESS-CORROSION CRACKING OF A TITANIUM ALLOY 67-12 M18-82073
STRESS-CORROSION CRACKING OF QUENCH-HARDENED STEEL WITH WHITE ETCH-RESISTANT SURFACE FILMS 67-12 M18-82184
STRESS CORROSION CRACKING OF CARBON STEEL 67-12 M18-82186
COMPARATIVE STUDY OF THE RESISTANCE OF KH21N5T AND KH18N10T STEELS TO CORROSION CRACKING 67-12 M18-82256
CORROSION CRACKING OF SOME HIGH-STRENGTH STEELS 67-12 M18-82257
HYDROGEN CORROSION OF STRESSED METAL 67-12 M18-82263
USE OF THE DEFORMED AD33 ALUMINUM ALLOY FOR LARGE COMPONENTS FOR USE AT SEA 67-12 M18-82495
FACTORS AFFECTING RUPTURE BY TENSIOCORROSION IN AUSTENITIC STAINLESS STEELS 67-12 M18-82517
ON THE CORROSION-FATIGUE AND FATIGUE-DAMAGE OF CAST IRON 67-12 M18-82603
THE EFFECTS OF ATMOSPHERE ON FATIGUE CRACK PROPAGATION 67-12 M18-82827
STRUCTURE OF TARNISH FILMS ON STRESS-CORROSION FRACTURE SURFACES OF TI-5 PER CENT AL-2.5 PER CENT SN ALLOY TESTED IN NITROGEN TETROXIDE 67-12 M18-82871
STRESS CORROSION CRACKING OF FIRED BULLETS OF BRASS 67-12 M18-82893
AN INCUBATION TIME FOR THE INITIATION OF STRESS-CORROSION CRACKING IN PRECRACKED 4340 STEEL 67-12 M18-83071

STRESS CORROSION CRACKING, ALLOYING EFFECTS
STUDY OF THE SULFIDE STRESS-CORROSION CRACKING OF HIGH STRENGTH STEEL. PT. 1. THE CORROSION PRODUCTS IN HYDROGEN SULFIDE AQUEOUS SOLUTION 67-04 M18-67422
STABILITY OF AUSTENITE IN STAINLESS STEEL AND ITS SUSCEPTIBILITY TO CORROSION CRACKING 67-07 M18-74195
THE EFFECT OF SUBSTITUTIONAL ELEMENTS ON THE STRESS-CORROSION CRACKING BEHAVIOUR OF PURE IRON-BASE ALLOYS 67-11 M18-80711
STRESS CORROSION CRACKING, COMPOSITION EFFECTS
EFFECTS OF COMPOSITION ON THE STRESS CORROSION CRACKING SUSCEPTIBILITY OF AUSTENITIC STAINLESS STEELS IN CHLORIDE CONTAINING HIGH TEMPERATURE WATER. PT. 1. COMPARISON AMONG THE SUS 27, 28, 32 AND 43 STEELS IN THE JAPANESE INDUSTRIAL STANDARD 67-02 M18-60276
THE RESISTANCE OF AUSTENITIC CHROMIUM MANGANESE STEELS AND ALLOYS TO CORROSION CRACKING IN SOLUTIONS OF CHLORIDES 67-04 M18-66530
STRESS CORROSION CRACKING, HEATING EFFECTS
STRESS-CORROSION SUSCEPTIBILITY OF HIGH-STRENGTH STEEL, IN RELATION TO FRACTURE TOUGHNESS 67-04 M18-66236
THE EFFECT OF GRAIN BOUNDARY STRUCTURE ON THE INTERCRYSTALLINE STRESS CORROSION BEHAVIOR OF BRASS ALLOYS 67-12 M18-83142
STRESS CORROSION CRACKING, TEMPERATURE EFFECTS
A NOTE ON THE EFFECT OF TESTING TEMPERATURE ON THE STRESS-CORROSION CRACKING OF MARTENSITIC STAINLESS STEELS 67-03 M18-65999
EFFECT OF TEMPERATURE ON STRESS-CORROSION CRACKING OF AUSTENITIC STAINLESS STEELS IN HIGH-TEMPERATURE SODIUM CHLORIDE SOLUTIONS 67-08 M18-76251
STRESS CORROSION RESISTANCE
SEE CORROSION RESISTANCE
STRESS CORROSION
STRESS CORROSION TESTS
MICROPROCESSES IN STRESS CORROSION OF MARTENSITIC STEELS 67-01 M18-58512
SENSITIVITY TO STRESS CORROSION AND INTERGRANULAR ATTACK OF HIGH-NICKEL AUSTENITIC ALLOYS 67-01 M18-58513
REPORT OF BRITTLENESS IN HIGH-STRENGTH STEEL WIRES 67-02 M17-60867
SUSCEPTIBILITY TO SULFIDE CORROSION CRACKING IN VARIOUS KINDS OF HIGH-STRENGTH STEEL. STUDIES ON SULFIDE CORROSION CRACKING OF WELDABLE HIGH-STRENGTH STRUCTURAL STEEL. PT. 1 67-02 M18-60268
EMBRITTLEMENT OF WELDABLE HIGH-STRENGTH STRUCTURAL STEELS BY SULFIDE CORROSION. PT. 2 67-02 M18-60269
EFFECTS OF COMPOSITION ON THE STRESS CORROSION CRACKING SUSCEPTIBILITY OF AUSTENITIC STAINLESS STEELS IN CHLORIDE CONTAINING HIGH TEMPERATURE WATER. PT. 1. COMPARISON AMONG THE SUS 27, 28, 32 AND 43 STEELS IN THE JAPANESE INDUSTRIAL STANDARD 67-02 M18-60276
EFFECT OF STRUCTURAL PARAMETERS ON STRESS-CORROSION RESISTANCE OF WROUGHT P-AZ 5, 8 GC-UNI 3735 ALLOY 67-02 M18-62100
INVARIABILITY, HESITATION OR RESTORATION OF DAMAGE IN WET-DRY FATIGUE PROCESS 67-03 M18-65663
EFFECT OF PLASTIC DEFORMATION AND AGING ON MECHANICAL PROPERTIES OF AL-MG ALLOYS 67-04 M17-67923
STRESS CORROSION EXPERIMENTS ON UNPROTECTED MS 63 BRASS AFTER VARIOUS DEGREES OF COLD WORK 67-04 M18-67083
EVALUATION OF CORROSION RESISTANCE OF AUSTENITIC STAINLESS STEELS FOR WATER COOLED POWER REACTORS 67-04 M18-67592
IMPROVING STRESS CORROSION RESISTANCE OF WELDED AL-ZN-MG ALLOY BY USE OF SILVER-CONTAINING WELDING WIRE 67-04 M18-68027
SYSTEMATIC INVESTIGATION OF THE POSSIBLE PROTECTION OF BRASS AGAINST STRESS CORROSION BY ELECTROPLATING 67-06 M18-71505
STRESS-CORROSION CRACKING OF COLD-REDUCED AUSTENITIC STAINLESS STEELS 67-06 M18-71591
FRACTURE BEHAVIOR OF TITANIUM ALLOYS IN AQUEOUS ENVIRONMENT 67-07 M18-73723
STRESS CORROSION DEVELOPED DURING THE CREEP OF A CRMOV STEEL AT 540 C. AND IN AIR 67-09 M18-76492

STRESS CRACKING

RESIDUAL STRAINS AND DISPLACEMENTS WITHIN THE PLASTIC ZONE AHEAD OF A CRACK 67-04 M17-66291
INFLUENCE OF FATIGUE ON BRITTLE FRACTURE IN MILD STEEL 67-04 M17-67415
DUCTILE AND BRITTLE CRYSTALS 67-06 M17-71285

STRESS CYCLE
FATIGUE AND ELECTRICAL RESISTIVITY OF COPPER ELECTRODEPOSITS DUE TO CYCLIC STRESS 67-01 M15-57297
ANOTHER CRITERION FOR ENDURANCE LIMITS OF STEEL 67-02 M17-58817
EFFECT OF INFREQUENT COMPRESSION CYCLES ON THE FATIGUE LIMIT OF STRUCTURAL ELEMENTS 67-02 M17-58833
THE CYCLIC STRAINING OF MILD STEEL 67-04 M17-66150
THE EFFECT OF WIDELY SPACED COMPRESSION CYCLES ON THE STRENGTH OF A STRUCTURAL ELEMENT 67-04 M17-68079

STRESS DISTRIBUTION
SEE STRESS CONCENTRATION

STRESS EFFECTS
NEUTRON IRRADIATION AND THE YIELD SURFACES OF COPPER 67-06 M16-71716
AN EXPERIMENTAL INVESTIGATION OF ELASTIC-PLASTIC PULSE PROPAGATION IN ALUMINUM RODS 67-06 M17-71713
DETERMINATION OF THE REPARTITION OF STRIP TENSION DURING THE COLD ROLLING OF WIDE STEEL STRIP 67-07 M07-72477

STRESS RATIO
HOW IMPORTANT IS THE STRESS RATIO 67-02, M17-60232

STRESS RELAXATION
DISTORTION OF PARTS DURING HEAT TREATMENT 67-02 M10-59805
GRAIN BOUNDARY RELAXATIONS IN IRON-CHROMIUM ALLOYS 67-02 M17-58955
THE RELAXATION OF RESIDUAL STRESSES UNDER THE EFFECT OF VIBRATIONAL LOADING 67-02 M17-59633
RELAXATION TESTS WITH ALTERNATING TEMPERATURES 67-02 M17-60209
VIBRATION TREATMENT AND DIMENSIONAL STABILIZATION OF CASTINGS 67-02 M17-61017
DETERMINING RELAXATION RESISTANCE OF METALS FROM CREEP TEST RESULTS 67-03 M17-65070
A METHOD FOR DETERMINING STRESS RELAXATION CHARACTERISTICS IN THE COMPLEX STRESSED STATE 67-03 M17-65071
ON RELAXATION TESTING OF WIRE BY MEASURING THE FREQUENCY OF NATURAL TRANSVERSE OSCILLATIONS OF A STRESSED SPECIMEN 67-03 M17-65607
STABILIZATION OF SILUMIN BY THERMAL CYCLING 67-04 M10-68092
STUDY OF THE CONDITIONS OF STRESS RELAXATIONS IN AG SERIES AL ALLOYS USED IN WELDED STRUCTURES 67-05 M17-68787
PLASTIC RELAXATION OF STRESSES IN ALUMINIUM AND COPPER 67-05 M17-68845
COMPARISON OF TWO METHODS OF EVALUATING STRESS RELAXATION IN STEEL 67-05 M17-69332
STRESS RELAXATION IN CD SINGLE CRYSTALS 67-05 M17-69793
GRAIN BOUNDARY RELAXATION IN FOUR HIGH-PURITY FCC METALS 67-06 M13-71607
A STUDY OF NITROGEN IN A CHROMIUM-YTTRIUM ALLOY 67-06 M14-71606
RELATION OF STRESS RELAXATION AND CREEP PHENOMENA IN METALS 67-06 M17-71135
HIGH-TEMPERATURE SPRINGS 67-06 M17-71231
METALLURGICAL ASPECTS OF HEAT TREATMENT OF LARGE STEEL FORGINGS 67-07 M10-74170
RELAXATION EFFECTS AROUND VACANCIES IN SODIUM METAL 67-07 M16-73631
ESTIMATE OF THE RELAXATION RESISTANCE OF METALS FROM THE RESULTS OF CREEP TESTS 67-07 M17-72970
METHOD OF DETERMINING STRESS-RELAXATION CHARACTERISTICS FOR A COMPLEX STRESSED STATE 67-07 M17-72971
STRESS RELAXATION IN NEUTRON IRRADIATED COPPER SINGLE CRYSTALS 67-07 M17-73901
STRAIN AGING EFFECTS AND STRESS RELAXATION IN IRON DURING SHOCK LOADING 67-07 M17-73902
SUCCESSIVE STRESS RELAXATION OBSERVED ON MOLYBDENUM POLYCRYSTALS IN PRE-YIELD REGION 67-07 M17-73985
THE CORROSION SUSCEPTIBILITY OF PRESTRESSED HIGH-STRENGTH STEEL WIRE 67-07 M18-73229
DEFORMATION OF THE ROTOR WINDING OF A TURBO ALTERNATOR. AN EXTREME EXAMPLE OF COPPER SHORTENING 67-08 M17-74501
DIFFUSIONAL STRESS RELAXATION IN POLYMORPHOUS TRANSFORMATION 67-08 M17-74638
ON SUBSTITUTIONAL RELAXATIONS IN AN IRON-22.5 PER CENT CHROMIUM ALLOY 67-08 M17-75583
VARIATION OF STRESS RELAXATION OF TITANIUM ALLOYS AS A FUNCTION OF THE CONDITIONS OF DEFORMATION AT HIGH TEMPERATURE 67-08 M17-76019
INVESTIGATION OF THE RHEOLOGICAL PROPERTIES OF NEW TYPE REINFORCEMENT FROM STEEL OF THE A-IV CLASS 67-09 M17-76963
ABNORMAL PHENOMENA AT STRESS RELAXATION IN BERYLLIUM BRONZE 67-09 M17-77128
PLASTIC STRESS RELAXATION IN METALS WITH A FACE-CENTERED CUBIC LATTICE 67-12 M17-82342
THE STRESS DEPENDENCE OF DISLOCATION VELOCITY IN THE MICROSTRAIN REGION 67-12 M17-82877

STRESS RELAXATION, CORROSION EFFECTS
INVESTIGATION OF CONDITIONS OF STRESS IN STRESS CORROSION TESTING SPECIMENS WITH CONSTANT DEFORMATION 67-06 M17-71177

STRESS RELAXATION, HEATING EFFECTS
INVESTIGATION OF WARPAGE IN CAST IRON MACHINE STANDS 67-12 M10-81907

STRESS RELAXATION, TEMPERATURE EFFECTS
THE TEMPERATURE DEPENDENCE OF STRESS RELAXATION CRITERIA IN THE ALLOY EI437B 67-02 M17-59886
THE STRESS-RELAXATION PROPERTIES OF TAF STEEL 67-07 M17-72977

STRESS RELAXATION TESTS
EXTENSION OF THE BORING-OUT METHOD FOR THE DETERMINATION OF RESIDUAL STRESSES 67-01 M17-58559
STRESS-RELAXATION PROPERTIES OF SOME NICKEL-CHROMIUM ALLOYS FOR STEAM POWER PLANT 67-02 M17-59100
ON RELAXATION TESTING OF WIRE BY MEASURING THE FREQUENCY OF NATURAL TRANSVERSE OSCILLATIONS OF A STRESSED SPECIMEN 67-03 M17-65607
IMPROVING THE STRESS RELAXATION TESTING OF WIRE 67-03 M17-65608
RELAXATION EFFECT ON SEMICONDUCTOR-INSULATOR INTERFACES 67-04 M16-67061
INTERACTION OF THE RELAXATION SPECTRUM AND HIGH-TEMPERATURE INTERNAL FRICTION BACKGROUND OF REFRACTORY METALS 67-04 M17-67648
LONG-TERM STRENGTH IN CONDITIONS OF STRESS RELAXATION 67-05 M17-69613
THEORY OF THE TENSILE TEST 67-06 M17-70422
MEASUREMENT OF THE MECHANICAL PROPERTIES OF SOLIDS AT HIGH PRESSURE 67-07 M17-72808
RELAXATION TESTING OF WIRE BY MEASURING THE FREQUENCIES OF NATURAL TRANSVERSE OSCILLATIONS OF STRESSED SAMPLES 67-08 M17-74532
IMPROVING THE METHOD OF TESTING WIRE FOR STRESS RELAXATION 67-08 M17-74533
EFFECT OF GAMMA EXPOSURE ON MECHANICAL RELAXATION SPECTRUM OF ALUMINUM IN THE 150 TO 300K TEMPERATURE RANGE 67-08 M17-75274
RELAXATION STABILITY OF 30KHGSA STEEL 67-10 M17-79325
NOMOGRAMS OF THE STRESS RELAXATION QUOTIENT 67-12 M17-82183

STRESS RELIEVING
SEE ALSO GRAIN REFINEMENT
THE THIN-WIRE WAY TO HEAT TREATING 67-01 M10-58014
MINIMIZING RESIDUAL INTERNAL STRESSES IN METAL PARTS BY VIBRATIONAL-THERMAL TREATMENT 67-02 M10-60844
RESIDUAL STRESSES IN CAST BODIES 67-02 M17-60212
USING CONCENTRATED --SPOT-- HEAT TO IMPROVE THE FATIGUE STRENGTH OF WELDED JOINTS 67-02 M17-62166
A METHOD FOR DECREASING RESIDUAL STRESSES IN QUENCHED STEEL PARTS 67-03 M10-65204
WARPAGE OF THIN WALLED PARTS DURING RELAXATION OF RESIDUAL STRESSES 67-04 M10-66358
FINAL REPORT ON STRESS RELIEVING OF CARBON STEEL AND CHROME-MOLYBDENUM WELDS 67-04 M10-67469
STRESS RELIEVING FURNACES OF MODULAR CONSTRUCTION 67-04 M10-67494
IMPROVING THE FATIGUE STRENGTH OF WELDED JOINTS 67-04 M17-67164

ANNEALING OF COLD ROLLED AL ALLOYS. PT. 2. STUDY ON AL-CU, AL-FE ALLOYS 67-05 M10-68866
ANNEALING OF COLD ROLLED AL ALLOYS. PT. 3. STUDY ON AL-MN, AL-SN ALLOYS 67-05 M10-68867
METHOD OF FINAL TREATMENT OF WELDED RAIL JOINTS 67-05 M10-69242
PROBLEMS OF STRESS-RELIEF TEMPERING OF GRAY IRON MACHINE TOOL BEDS 67-05 M10-69348
STUDY OF THE CONDITIONS OF STRESS RELAXATIONS IN AG SERIES AL ALLOYS USED IN WELDED STRUCTURES 67-05 M17-68787
INFLUENCE OF ULTRASOUND ON STRESS RELIEF OF CR-W-MN STEEL DURING TEMPERING 67-06 M10-70056
STUDY OF THE FEASIBILITY OF REDUCING RESIDUAL STRESSES IN CASTINGS 67-06 M10-70297
APPLICATION OF HIGH-TEMPERATURE ANNEALING 67-06 M11-71845
PRODUCTION OF A LIGHTENED NO. 60 H-BEAM 67-07 M07-73784
HEAT TREATING AND STRESS RELIEF--PRESSURE VESSELS GET TWO IN ONE 67-07 M10-72516
ANNEALING OF WELDED STRUCTURES 67-07 M11-72731
AMERICAN OIL TURNS ON THE HEAT TO GET ITS CRACKERS CRACKING 67-08 M10-74443
STRESS RELIEVING AND STRESS CONTROL 67-08 M10-74847
MANUFACTURING LIGHTENED I-BEAMS 67-09 M07-76547
STRESS RELIEF IN AUSTENITIC STEEL WELDS 67-09 M18-76517
HEAT TREATING TITANIUM AND ITS ALLOYS 67-10 M10-78626
METALS SHAKE THE STRESSES AWAY 67-10 M10-78879
THE STRESS RELIEVING OF HIGH-CARBON WIRE 67-10 M10-79423
PRODUCTION AND TESTING OF 1000 KG CHEMICAL CONTAINERS 67-10 M11-78613
DISTORTION-FREE WELDS IN TITANIUM 67-10 M11-80033
EFFECT OF WORKHARDENING AND LOADING CONDITIONS ON FATIGUE STRENGTH AND LONGEVITY 67-10 M17-79333
MOBILE STRESS RELIEVING FURNACE 67-11 M10-80348
DISPENSING WITH HIGH TEMPERATURE TEMPERING 67-11 M10-80877
DISTORTION OF THIN-WALLED PIECES DURING RELAXATION OF RESIDUAL STRESSES 67-11 M10-80960
THE STRESS RELIEVING OF HIGH CARBON WIRE. PT. 2 67-11 M10-81243
STRESS RELIEF MECHANISM IN REFRACTORY METALS 67-11 M10-81421
VIBRATORY STRESS RELIEVING 67-11 M10-81498
USE OF PRELIMINARY HEATING IN THE CONSTRUCTION OF CONVERTER HOUSINGS 67-11 M11-80647
EFFECT OF STRESS RELIEVING ON THE HIGH-TEMPERATURE RUPTURE STRENGTH OF CARBON STEELS 67-11 M17-80266
MANUFACTURE OF ASME SA 336 --CASE 1332-3-- STEEL RING FORGINGS FOR NUCLEAR REACTOR VESSELS 67-11 M20-81179
VIBRATION AGING OF IRON CASTINGS 67-12 M06-82083
APPLICATION OF HIGH-FREQUENCY VIBRATIONS IN THE PRODUCTION OF PRESSURE DIE CASTINGS AND STRIPPING OF CORES 67-12 M06-83382
CONDITIONS OF VIBROAGING OF MACHINE PARTS MADE OF CAST IRON 67-12 M10-81775
TEMPERING WELDED STRUCTURES 67-12 M10-82310
BIG SHAKE TAKES THE STRESS OUT OF METAL 67-12 M20-81897

STRESS RELIEVING, CONTROLLED ATMOSPHERES
STRESS RELIEVING GOES UNDERGROUND 67-07 M10-73694

STRESS RELIEVING, ULTRASONICS
INFLUENCE OF ULTRASONIC VIBRATIONS ON THE RELIEF OR RESIDUAL STRESSES DURING TEMPERING OF KHVG STEEL 67-10 M10-78802

STRESS RELIEVING, VIBRATION
DECREASE OF RESIDUAL INTERNAL STRESSES IN METAL MACHINE PARTS BY VIBRATION-HEAT TREATMENT 67-08 M10-76102

STRESS RUPTURE
SEE CREEP RUPTURE STRENGTH

STRESS RUPTURE STRENGTH
SEE CREEP RUPTURE STRENGTH

STRESS STRAIN CURVES
SOME X-RAY OBSERVATIONS OF PLASTIC FLOW IN SINGLE CRYSTALS OF IRON 67-01 M17-57428
MECHANICAL PROPERTIES OF RAPIDLY STRETCHED ALUMINUM AND ALUMINUM-MAGNESIUM ALLOYS 67-01 M17-57519
LOW-TEMPERATURE FLOW AND FRACTURE BEHAVIOR OF TANTALUM 67-01 M17-57630
THE STRESS-STRAIN RELATIONSHIP OF MACROSCOPIC ELASTIC STRESSES AND THE LATTICE STRAINS OBSERVED BY X-RAY DIFFRACTION METHODS 67-01 M17-58442
PLASTICITY OF BODY-CENTERED CUBIC METALS AT HIGH STRAIN RATE 67-01 M17-58598
DISLOCATION ARRANGEMENTS IN TANTALUM SINGLE CRYSTALS DEFORMED IN TENSION AT 373 K 67-02 M13-58960
A STRAIN-ANNEAL METHOD OF GROWING CRYSTALS OF ALPHA-URANIUM 67-02 M14-61296
YIELD POINT OF MILD STEEL UNDER SHARPLY CONCENTRATED STRESS 67-02 M17-58809
STRENGTH OF ROTATING DISKS 67-02 M17-58812
ON THE STRESS-STRAIN RELATION IN PLASTIC RANGE 67-02 M17-58819
STRAIN RATIO RELATIONSHIP IN PLASTIC DEFORMATION 67-02 M17-58826
THE SHAPE OF MECHANICAL HYSTERESIS LOOP, ITS DEFORMATION DUE TO STRESS REPETITION AND RESULTING INCREASE IN FLOW STRESS. PT. 1. EXPERIMENT 67-02 M17-58827
THE MICROSTRAIN BEHAVIOR OF BERYLLIUM SINGLE CRYSTALS 67-02 M17-58962
THE TENSILE DEFORMATION BEHAVIOR OF AN ALUMINIUM-MAGNESIUM ALLOY 67-02 M17-58965
MECHANICAL BEHAVIOR OF ALUMINUM STRAINED WITH IMPACT LOADING 67-02 M17-59125
WORK HARDENING CAUSED BY INTENSIVE ULTRASONIC TREATMENTS IN SINGLE CRYSTALS 67-02 M17-59911
RESIDUAL DEFORMATION STRESSES IN IRON MATERIALS 67-02 M17-59917
THE ELASTIC BEHAVIOR OF GRAY CAST IRON. PT. 2. THEORY 67-02 M17-60026
SHARP YIELDING DUE TO WORK SOFTENING OF DYNAMICALLY PRESTRAINED SINGLE CRYSTALS OF MAGNESIUM 67-02 M17-60159
DEFORMATION OF ALUMINIUM SINGLE CRYSTALS AT HIGH STRAIN RATES 67-02 M17-60274
AXIAL FATIGUE ON CARBON STEEL IN THE PLASTIC RANGE 67-02 M17-60662
THE EFFECT OF VACUUM ANNEALING ON THE STRAIN BEHAVIOUR OF CADMIUM SINGLE CRYSTALS 67-02 M17-61531
ELECTRON MICROSCOPIC SURFACE AND TRANSMISSION INVESTIGATIONS OF IRON SINGLE CRYSTALS AND THE INFLUENCE OF THE ORIENTATION ON THE WORK-HARDENING BEHAVIOR 67-03 M13-65218
RECRYSTALLIZATION DUE TO PLASTIC DEFORMATION IN HOT WORKING 67-03 M14-65556
INVESTIGATION OF STEEL UNDER CONDITIONS OF BIAXIAL TENSION AT ROOM AND LOW TEMPERATURES 67-03 M17-65103
CREEP BEHAVIOUR OF NIMONIC AND R. R. 59 ALLOYS 67-03 M17-65173
CHARACTERISTICS OF STRESS-STRAIN DIAGRAMS WHEN TESTING HIGH-STRENGTH STEEL CONTAINING STRAINED MARTENSITE 67-03 M17-65610
ON THE DIRECT MEASUREMENT OF VERY LARGE STRAIN AT HIGH STRAIN RATES 67-03 M17-65662
CHARACTERISTICS OF THE PROCESS OF UPSETTING UNDER PULSATING LOADS 67-04 M07-67043
THE STUDY, BY COMPUTER, OF THE STRESSED AND DEFORMED STATES IN STRUCTURES MADE OF WELDED NARROW PLATES 67-04 M11-67352
USE OF COMPUTERS FOR CALCULATING STRESS-STRAIN STATE OF ROLLING ROLLS. PT. 1 67-04 M17-66083
THE CHANGE OF MECHANICAL AND PHYSICAL PROPERTIES OF ALPHA-IRON DUE TO TENSION, COMPRESSION, TORSION AND ROLLING 67-04 M17-66195
RELATIONSHIP BETWEEN MICRODEFORMATIONS AND THE GENERATION OF DISLOCATIONS IN IRON AND MILD STEEL 67-04 M17-66309
THE INFLUENCE OF STRAIN RATE AND STRAIN AGEING ON THE FLOW STRESS OF COMMERCIALLY-PURE ALUMINIUM 67-04 M17-66505
DISCONTINUOUS YIELDING OF COMMERCIALLY-PURE ALUMINIUM 67-04 M17-66506
THE EFFECT OF GRAIN SIZE ON THE STRESS-STRAIN RELATIONSHIP IN LOW-CARBON STEEL 67-04 M17-66931
STRAIN-RATE DEPENDENCE OF THE FLOW STRESS FOR BASAL

SLIP IN ZINC 67-04 M17-67582
ANALYSIS OF TEMPERATURE AND RATE RELATIONSHIPS OF YIELD STRENGTH AND FLOW STRESS OF ARMCO IRON IN THE LOW-TEMPERATURE RANGE 67-04 M17-67924
A METHOD FOR CONSTRUCTING AND ANALYZING TRUE STRESS-STRAIN DIAGRAMS 67-04 M17-68083
KINKING IN MGO SINGLE CRYSTALS UNDER HIGH CONFINING PRESSURE 67-05 M13-68295
ELECTRICAL RESISTANCE AND DEFECTS IN CU-AL ALLOYS AT LOW TEMPERATURES 67-05 M15-69648
THE HIGH TEMPERATURE FLOW STRESS OF SINGLE CRYSTALS OF COPPER, SILVER AND GOLD. PT. 1 67-05 M17-68292
PLASTIC DEFORMATION OF THIN COPPER SINGLE CRYSTALS. PT. 1. THE SEPARATE ROLES OF EDGE AND SCREW DISLOCATIONS IN STAGE 1 OF WORK HARDENING 67-05 M17-68296
THE EFFECT OF HIGH STRAIN RATE ON THE STRESS-STRAIN RELATIONSHIP OF ALUMINIUM 67-05 M17-69156
MECHANICAL PROPERTIES AND CLEAVAGE RUPTURE OF IRON SINGLE CRYSTALS AT 77 K 67-05 M17-69339
AN INVESTIGATION INTO THE INFLUENCE OF EDGE SHAPE ON CRACKING DURING ROLLING 67-05 M17-69560
LOW-TEMPERATURE AGING OF DISEQUILIBRIUM D-1 ALUMINUM ALLOY 67-05 M17-69655
CRITICAL DEFORMATION OF METALS AT RUPTURE UNDER HYDROSTATIC PRESSURE 67-05 M17-69663
SOLID-SOLUTION STRENGTHENING IN IRON-BASE ALLOYS 67-06 M14-71608
DEFORMATION OF SINGLE CRYSTALS OF AGING CU-NI-CO ALLOYS IN VARIOUS STRUCTURAL STATES 67-06 M17-69994
BERYLLIUM 67-06 M17-70016
YIELDING PHENOMENA IN BERYLLIUM WIRE PLASTIC COMPOSITES 67-06 M17-70618
THE EFFECT OF STRAINING AT 100-500 C. ON THE ROOM TEMPERATURE MECHANICAL PROPERTIES OF CARBON STEELS 67-06 M17-70838
ON STRAIN-HARDENING OF MAGNESIUM OXIDE 67-06 M17-70957
STRESS STRAIN RELATIONSHIP IN COMPRESSION TESTING OF PURE METALS AND DUCTILE ALLOYS 67-06 M17-71114
QUALITY OF 1020 MM DIAMETER SPIRAL SEAM TUBES OF 15G2S STEEL 67-06 M17-71260
MECHANICAL PROPERTIES OF SOME TANTALUM ALLOYS 67-06 M17-71528
PLASTIC ANISOTROPY OF TANTALUM, NIOBIUM, AND MOLYBDENUM 67-06 M17-71530
THE RECORDING OF A STRESS-STRAIN-CURVE EMPLOYING AN ELECTRONIC COMPUTER 67-06 M17-71865
CHARACTERISTICS OF PLASTIC DEFORMATION OF AL SINGLE CRYSTALS IN THE 1.3 TO 4.2 K. TEMPERATURE RANGE 67-06 M17-72357
DETERMINING THE FORMABILITY OF R18 STEEL AT HIGH LOADING RATES 67-07 M08-73951
PLASTIC DEFORMATION OF IRON WHISKERS 67-07 M17-72410
ON THE TESTING OF STEEL IN BIAXIAL TENSION AT ROOM TEMPERATURE AND LOWER TEMPERATURES 67-07 M17-72789
EFFECT OF INITIAL DISLOCATION DENSITY ON THE STRESS-STRAIN CURVE AND ON SURFACE INDICATION OF SLIP IN COPPER 67-07 M17-73059
COMPONENTS OF THE FLOW STRESS OF RION 67-07 M17-73924
CONTRIBUTION TO THE MECHANICS OF MACHINING 67-08 M08-75571
EFFECT OF ATOMIC ORDERING ON STRAIN AGING OF NI2CR ALLOY 67-08 M14-75281
INFLUENCE OF PLASTIC DEFORMATION IN HEAT AFFECTED ZONE ON COLD SHORTNESS OF WELDED JOINTS 67-08 M17-74368
CHARACTERISTICS OF STRESS-STRAIN DIAGRAMS IN TESTING HIGH-STRENGTH STEEL WITH DEFORMED MARTENSITE 67-08 M17-74535
EFFECT OF PROGRAMMED LOADING ON FLOW STRESS OF METALS DURING CYCLICAL STRAINING 67-08 M17-74643
THE EFFECT OF STRAIN RATE ON THE FLOW STRESS OF COMMERCIAL PURITY ALUMINUM 67-08 M17-75477
MEASUREMENT OF ELASTIC-PLASTIC STRESS WAVES IN STEEL TARGETS UNDER SHORT-TIME LOAD 67-08 M17-75695
DEFORMATION OF POLYCRYSTALLINE ALUMINIUM AT HIGH STRAIN RATES 67-08 M17-75755
THE DETERMINATION OF THE ACTIVATION VOLUME DURING CHANGE OF THE CREEP RATE, PARTICULARLY IN AG SINGLE CRYSTALS 67-08 M17-75783
TEMPERATURE AND RATE DEPENDENCE OF STRAIN RESISTANCE OF NI-AU ALLOYS 67-08 M17-75880
THE STRAIN-RATE DEPENDENCE OF THE FLOW STRESS IN SOME ALUMINUM ALLOYS 67-08 M17-75969
CYCLIC STRAIN-SOFTENING EFFECTS IN METALS 67-08 M17-75970
THE ENHANCEMENT OF DUCTILITY IN HIGH-STRENGTH STEELS 67-08 M17-75980
THE ELASTIC LIMIT IN CAST IRONS--LIMIT OF ACCOMMODATION AND ROLE OF THE TIME FACTOR 67-09 M17-77668
THE PLASTICITY OF BETA AND BETA PRIME INTERMETALLIC COMPOUNDS 67-09 M17-77739
PLASTIC INSTABILITY RESULTING FROM UNIAXIAL AND BIAXIAL TENSILE STRESS 67-09 M17-78036
EXPERIMENTAL EVALUATION OF MATERIAL BEHAVIOR IN A WIRE UNDER TRANSVERSE IMPACT 67-09 M17-78102
DELAY TIMES, OSCILLATIONS, AND REVERSE STRAINING IN ANNEALED ALUMINUM 67-09 M17-78103
ENGINEERING CONSIDERATIONS OF STRESS STRAIN AND STRENGTH 67-09 M17-78185
DEFORMATION OF ZINC SINGLE CRYSTALS AT HIGH STRAIN RATES 67-09 M17-78229
TENSION DURING PLASTIC STRAINING WITH CROSSWISE DEFORMATION 67-10 M07-78430
MEASUREMENT OF STRAIN HARDENING IN SHEET METALS 67-10 M17-78504
THE DEFORMATION OF TITANIUM WHEN TESTED IN DIFFERENT STRESSED STATES 67-10 M17-78947
THE STRESS-STRAIN DIAGRAM AT THE YIELD POINT OF MILD STEEL 67-10 M17-79062
INVESTIGATION OF ANOMALY IN TEMPERATURE DEPENDENCE OF THE STRENGTH IN COMMERCIALLY PURE NICKEL 67-10 M17-79145
BENDING WITHOUT BREAKING 67-10 M17-79184
COMPRESSIVE STRENGTH OF MILD STEEL AT HIGH STRAIN RATE AND AT HIGH TEMPERATURE 67-10 M17-79877
ON THE THEORY OF PLASTIC WAVE PROPAGATION IN A BAR 67-10 M17-80005
INFLUENCE OF THE MANNER OF LOADING --IMPOSED STRESS OR STRAIN-- ON THE EVOLUTION OF THE MECHANICAL PROPERTIES OF METALS DURING FATIGUE 67-10 M17-80017
LUDERS BANDS OF KCL WHISKERS 67-11 M13-80812
THE EFFECT OF RATE OF STRAINING ON THE 0.2 PER CENT PROOF STRESS AND LOWER YIELD STRESS OF STEEL 67-11 M17-80259
CREEP-RUPTURE DATA--TESTING AND APPLICATION FOR STRESS CONCENTRATION DESIGN CRITERIA 67-11 M17-80286
THE EFFECTS OF BIAXIAL STRAIN ON MATERIAL PROPERTIES 67-11 M17-80521
DEFORMATION OF COPPER SINGLE CRYSTALS AND POLYCRYSTALS AT HIGH STRAIN RATES 67-11 M17-80944
MICROSTRAIN BEHAVIOR OF METAL MATRIX COMPOSITES 67-11 M17-81129
ORIENTATION DEPENDENCE OF STRESS-STRAIN CURVES IN VACUUM DEPOSITED SINGLE CRYSTAL GOLD FILMS 67-11 M17-81272
DETERMINATION OF BRITTLE FRACTURE BEHAVIOR OF A STEEL BY EVALUATION OF FORCE-FLEXION CURVES OBTAINED FROM NOTCH BEND TESTS 67-11 M17-81381
PROBLEMS AND NOTES ON THE MANUFACTURE OF STEEL WIRES FOR ACSR OVERHEAD TRANSMISSION LINES 67-12 M01-82652
PREDICTION OF EXTRUSION PRESSURES IN THE COLD FORGING OF STEEL 67-12 M07-82767
TENSION AND DEFORMATION WORK WITH DEVELOPING TRANSVERSE DEFORMATION 67-12 M07-83428
PRECIPITATION STRENGTHENING OF FE-6 AT . PER CENT MO 67-12 M10-83052
FORMATION OF STACKING FAULTS IN POLYCRYSTALLINE BRASS DURING TENSILE DEFORMATION 67-12 M13-82541
CALCULATING TEMPERATURE STRESSES IN PLATE-SHAPED CAST IRON CASTINGS 67-12 M17-81724
MECHANICAL PROPERTIES AND CLEAVAGE FRACTURE OF IRON SINGLE CRYSTALS AT 77 K 67-12 M17-81746
X-RAY LINE BROADENING AND RESIDUAL STRESS STUDIES OF COMPOSITE MATERIALS 67-12 M17-81820
CORRELATION OF FATIGUE LIMIT WITH TRUE STRESS--TRUE STRAIN BEHAVIOR 67-12 M17-82145
INFLUENCE OF PLASTIC STRAIN IN THE HEAT-AFFECTED ZONE ON THE LOW-TEMPERATURE EMBRITTLEMENT OF WELDED JOINTS 67-12 M17-82241
THE EFFECT OF TEST TEMPERATURE AND STRAIN RATE UPON THE MECHANICAL PROPERTIES OF IRON CONTAINING

HYDROGEN ABSORBED FROM ATMOSPHERIC AIR
67-12 M17-82428
RELATIONSHIP BETWEEN MICROSTRUCTURE AND STRESS-STRAIN CURVE OF GRAY CAST IRON
67-12 M17-82451
THE MICROYIELD STRENGTH OF BERYLLIUM-IRON ALLOYS
67-12 M17-82588
DEFORMATION OF SILVER-ZINC SINGLE CRYSTALS AS A FUNCTION OF ZINC CONCENTRATION
67-12 M17-82716
RELATING THE FLOW STRESS OF ALUMINUM TO STRAIN, STRAIN RATE AND TEMPERATURE 67-12 M17-82718
TEMPERATURE AND ORIENTATION DEPENDENCE OF THE FLOW STRESS IN OFF-STOICHIOMETRIC NI3AL --GAMMA PHASE-- 67-12 M17-82719
THE MECHANISM OF FORMING IN BENDING
67-12 M17-82776
STRESS-STRAIN CURVES UNDER VARIABLE STRESSES
67-12 M17-82828
SUPERPLASTICITY IN ELECTROPLATED COMPOSITES OF LEAD AND TIN 67-12 M17-83053
TENSILE BEHAVIOR OF POLYCRYSTALLINE YTTRIUM FROM 77 TO 773 K 67-12 M17-83058
THE STRENGTH OF FERRITE AND OF MARTENSITE AS FUNCTIONS OF COMPOSITION, TEMPERATURE AND STRAIN RATE 67-12 M17-83063
EFFECT OF PRESTRESSING ON THE LIMIT OF ACCOMMODATION. NOTE ON AUSTENITIC STEEL
67-12 M17-83103
A STUDY OF THE STRESS-STRAIN RELATIONSHIP IN THE WORK-HARDENING RANGE 67-12 M17-83238

STRESS STRAIN CURVES, HEATING EFFECTS
PRECIPITATION HARDENING IN IRON-MOLYBDENUM ALLOY
67-04 M17-67550

STRESS STRAIN CURVES, RADIATION EFFECTS
THE EFFECT OF IRRADIATION TEMPERATURE ON THE POST-IRRADIATION STRESS-STRAIN BEHAVIOR OF STAINLESS STEEL 67-07 M17-73387
POINT DEFECT HARDENING OF ALUMINUM. PT. 2. ANALYSIS OF ELECTRON IRRADIATION EXPERIMENTS AT 23 K
67-12 M17-83060

STRESS STRAIN CURVES, TEMPERATURE EFFECTS
STUDYING THE ANOMALY OF THE TENSILE CHARACTERISTICS OF METALS AND ALLOYS 67-08 M17-74585
APPARATUS FOR TENSILE TESTS ON MICROFIBER SPECIMENS FROM 4 TO 330 K 67-08 M17-75650
EFFECT OF STRAIN RATE ON THE DEFORMATION BEHAVIOR OF IRON AND STEEL AT LOW TEMPERATURES
67-09 M17-78214
STRAIN-RATE AND TEMPERATURE DEPENDENCE OF THE FLOW STRESS OF IRON AND STEEL AT LOW TEMPERATURES
67-09 M17-78215

STRESSES
SEE ALSO AXIAL STRESS
RESIDUAL STRESS
TENSILE STRESS
THERMAL STRESSES
CALCULATING STRESSES IN DRAWING IN A RADIUS DIE
67-01 M07-57245
THE DIMENSIONING OF ROLL BODIES IN ROLL STANDS FOR ROLLING ALUMINUM 67-01 M07-58220
CHANGE IN THE FINE STRUCTURE OF BRASS DURING ANNEALING 67-01 M13-58090
THE EFFECT OF UNIAXIAL ELASTIC STRESSES ON THE REMAGNETIZATION OF THIN PERMALLOY LAYERS
67-01 M15-57571
EFFECT OF INTERNAL STRESSES AND SHAPE OF FERROMAGNETIC SPECIMENS ON THEIR MAGNETIC STRUCTURE AND MAGNETIC PROPERTIES. PT. 3
67-01 M15-58184
ELASTIC DEFORMATION IN COLD ROLLING
67-01 M17-57920
THE BEHAVIOR OF SUBMERGED ARC WELDED PIPE WHEN SUBJECTED TO REPETITIVE INTERNAL PRESSURE STRESSES 67-01 M17-58284
THE STRESS-STRAIN RELATIONSHIP OF MACROSCOPIC ELASTIC STRESSES AND THE LATTICE STRAINS OBSERVED BY X-RAY DIFFRACTION METHODS
67-01 M17-58442
PRESTRESSES IN MULTILAYER SHELLS DURING ARC WELDING
67-02 M11-59524
BASIC PRINCIPLES OF HEAT TREATMENT OF STEELS
67-02 M14-60864
THE INFLUENCE OF A SECOND-PHASE INTERFACE ON THE WORK HARDENING BEHAVIOR OF AN ALUMINUM-5 AT. PER CENT SILVER ALLOY 67-02 M17-58958
THE OBSERVATION OF THE BRITTLE-DUCTILE TRANSITION IN STEEL AT STRESS WAVE ATTENUATION
67-02 M17-59712
BUILDING CONSTRUCTION AND HIGH-STRENGTH STEEL
67-02 M17-59962
COMPRESSIVE DEFORMATION AND STRUCTURE IN SINTERED ALUMINUM PRODUCTS --S. A. P.--
67-02 M17-60261
THE RATE CONTROLLING MECHANISM DURING YIELDING AND FLOW OF ALPHA TITANIUM AT TEMPERATURES BELOW 0.4 TM 67-02 M17-60651
CONSTRUCTION OF LARGE-SIZE SHIPS AND PROBLEMS IN THE USE OF HIGH-STRENGTH STEEL
67-02 M20-59963
A COMMENT ON DIFFUSION CREEP DEFORMATION IN A MAGNESIUM REACTOR COMPONENT 67-03 M14-65862
POWER CONDITIONS IN MANDREL ROLLING OF TUBES
67-04 M07-66082
EXPERIMENTAL DETERMINATION OF FORCES IN A THREE-LINE TUBE MILL 67-04 M07-66977
COMMENT ON THE EFFECT OF CARBON ON THE STRAIN RATE SENSITIVITY OF IRON SINGLE CRYSTALS
67-04 M17-66545
THE HIGH TEMPERATURE FLOW STRESS OF SINGLE CRYSTALS OF COPPER, SILVER AND GOLD. PT. 1
67-05 M17-68292
A CRITICAL EXAMINATION OF THE LONG-RANGE STRESS THEORY OF WORK-HARDENING 67-05 M17-68293
NUCLEATION OF DEFORMATION TWINS IN ZINC BICRYSTALS
67-05 M17-68294
INFLUENCE OF REFORMING PROCESSES ON THE FRACTURE STRENGTH OF SOLIDS 67-05 M17-69215
TESTING SOME STAINLESS STEELS FOR HYDROSTATIC BULGING 67-05 M17-69441
TEMPERATURE AND STRAIN RATE DEPENDENCE OF THE FLOW STRESS IN MOLYBDENUM 67-05 M17-69787
DETERMINATION OF STRESSES DURING HOT ROLLING OF CARBON STEELS 67-06 M07-70942
EFFECTS OF CARBIDE SIZE AND SPACING ON INTERSTITIAL AND CARBIDE STRENGTHENING IN A 0.3 PER CENT C STEEL 67-06 M14-70812
THE PLASTIC DEFORMATION OF IRON-11 AT. PER CENT MOLYBDENUM SOLID SOLUTION ALLOY
67-06 M17-70447
POWER CONDITIONS IN PRESSING OF SEMIFABRICATES OF AMG6 A1 ALLOY 67-07 M07-73419
STRESS-STRAIN STATE IN DEEP DRAWN PARTS OF COMPLEX CONFIGURATIONS 67-07 M17-73442
THE INFLUENCE OF THE AVERAGE GRAIN SIZE OF WC AND THE CONTENT OF THE BINDING COBALT PHASE ON X-RAY MEASUREMENTS OF MACROSTRESSES IN SINTERED CARBIDES OF THE SYSTEM WC-CO 67-07 M17-73464
EFFECT OF STATE OF STRESS ON THE CREEP BEHAVIOR OF LEAD AND LEAD ALLOY TUBES 67-07 M17-73709
THE ORIGIN OF MICROCRACKS IN METALLIC MATERIALS BEING SUBJECTED TO ALTERNATING STRESSES
67-10 M17-79063

STRESSING
SEE ALSO PRESTRESSING
TRANSFORMATION PLASTICITY DURING THE TEMPERING OF MARTENSITE AND THE TRANSFORMATION OF AUSTENITE TO BAINITE IN A MEDIUM-ALLOY STEEL
67-04 M14-66986
TECHNIQUE FOR MICROSCOPIC OBSERVATION OF CRACK PROPAGATION 67-04 M17-67735
DISLOCATION MULTIPLICATION IN ZINC SINGLE CRYSTALS UNDER THE EFFECT OF ULTRASONICS
67-08 M13-75278

STRETCH BENDING
SEE STRETCH WRAPPING

STRETCH FORMING
SEE ALSO STRETCH WRAPPING
THE NEW CSR MILL AT REPUBLIC STEELS YOUNGSTOWN PLANT 67-01 M07-58502
THE USE OF COLD CUTTING AND NIBBLING MACHINES FOR THE FLANGING OF THIN SHEET 67-01 M08-58115
DISCUSSION OF THE STRETCH-FORMABILITY
67-01 M08-58246
NEW WAYS TO SHAPE HIGH-STRENGTH STEELS--STRETCHING, CONTOURING AND DROP-HAMMERING
67-01 M08-58758
IS TUBE BENDING YOUR PROBLEM 67-02 M07-61643
WALL THICKNESS VARIATION OF TUBE AND ROLLING TORQUE IN STRETCH REDUCING MILL STEEL TUBE WORKS
67-02 M08-58847
DEVELOPMENT OF THE USE OF ELASTOMETERS
67-02 M08-60112
A LOOK AT SOME UNCONVENTIONAL NEW METAL-FORMING METHODS 67-03 M07-65400
CONTINUOUS STRETCH-REDUCTION PIPE MILL IN OHIO
67-03 M08-65716
RESEARCH ON THE FORMABILITY AND TESTING METHOD OF

DEEP DRAWING STEEL SHEET 67-03 M08-65818
MAKING STEEL PIPE BY STRETCH REDUCTION 67-03 M08-65984
FORMING METAL PARTS BY EXPANSION 67-06 M07-70471
STRETCH-DRAW FORMING--SOME DETAILS OF THE CYRIL BATH PROCESS 67-06 M08-72048
SHEET METAL FORMING ON STRETCH-DRAW PRESSES 67-08 M08-75764
CONTROLLED STRETCH-DRAW FORMING 67-09 M07-77507
TUBE ROLLING ON STRETCH-REDUCING MILLS 67-09 M07-78037
THE PRESS FORMABILITY OF ALUMINIUM AND ITS ALLOYS 67-09 M08-76680
RADIAL STRETCH FORMING ON EXPANDING MANDREL MACHINES 67-10 M08-78714
RADIAL STRETCH FORMING ON EXPANDING MANDREL MACHINES 67-11 M08-80562
STRETCH-DRAW FORMING OF SHEETS ON A UNIVERSAL PRESS IN THE AERONAUTICS INDUSTRY 67-12 M08-83378
STRETCH-DRAW FORMING OF ELEMENTS OF DIVERSE SHAPES IN THE AERONAUTICS INDUSTRY 67-12 M08-83379

STRETCH FORMING, AUTOMATION
PUSHBUTTON STRETCH FORMER USES ARCED, ROTATING JAWS 67-07 M07-72930
INDUSTRY SHOWS RENEWED INTEREST IN STRETCH-PRESS FORMING 67-08 M08-74734

STRETCH WRAP FORMING
SEE STRETCH WRAPPING

STRETCH WRAPPING
SPRINGBACK BEHAVIOR OF LOW-CARBON STEEL SHEET AFTER STRETCH BENDING 67-08 M17-74518

STRETCHABILITY
SUITABILITY OF SHEETS FOR PRESSING 67-04 M17-66145
THE EFFECTS OF LUBRICATION ON THE PRESS FORMING LIMITS OF SHEET METALS 67-06 M08-72263
STUDY OF WALL BREAK IN DEEP-DRAWING 67-12 M08-81744

STRETCHER LEVELING
FORMING METAL PARTS BY EXPANSION 67-06 M07-70471
THE CONTINUOUS STRIP STRETCHER LEVELING PROCESS 67-09 M07-77148

STRETCHING
SEE ALSO STRETCH FORMING
STRETCH WRAPPING
STRETCHING AND STRAIGHTENING ALUMINUM SECTIONS AFTER EXTRUSION 67-01 M07-58222

STRIKE PLATING
SEE FLASH PLATING

STRIP
SEE ALSO STRIP STEEL
WEAR ON SHEARING TOOLS--WEAR ON CUTTING EDGES OF BLANKING TOOL FOR SQUARE PARTS 67-06 M17-72264
EXPERIENCES WITH OIL-FIRED BELL-TYPE ANNEALING FURNACES 67-07 M10-72564

STRIP, CASTING
CONTINUOUS PRODUCTION OF WIRE, TAPE AND NARROW STRIP 67-05 M06-69593

STRIP, CASTINGS
CONTINUOUS CASTING FACILITY--IMPORTANT IN FOIL ROLLERS SERVICE 67-06 M03-71585

STRIP, CLEANING
CONTINUOUS PRETREATMENT OF SHEET AND STRIP BEFORE PAINTING 67-01 M12-57164
DOSCO STEEL PROCESSING FLAT ROLLED STRIP IN QUEBEC 67-02 M12-60240
THE CONTINUOUS ULTRASONIC CLEANING OF WIRE AND STRIP 67-10 M12-79958

STRIP, COATING
CONTINUOUS ANODIZING AND LACQUERING LINES FOR ALUMINUM STRIPS 67-01 M12-57461
NICKEL-COATED STEEL STRIP 67-03 M12-65667
PRECOATED STRIP 67-04 M12-66137
THE CASE FOR COPPER COATED STEEL STRIP 67-04 M12-66679
JOHN LYSAGHT INSTALLS CONTINUOUS COATING LINE 67-04 M12-67908
COPPER COATING OF STEEL STRIP FOR COMPONENTS 67-04 M12-67932
CLADDING STEEL WITH LEAD BY POWDER ROLLING 67-04 M12-68106
IT CHARTS, CONTROLS THICKNESS OF PAINT FILM AUTOMATICALLY IN COIL COATING 67-05 M19-69877
ALCAN COIL COATER HITS 300 FPM 67-06 M12-70866
NEW DEVELOPMENTS IN THE METHODS FOR HOT GALVANIZING OF STRIP 67-06 M12-71504
SENDZIMIR-GALVANIZED WIDE STRIP--APPLICATIONS AND PROCESSING 67-06 M12-71565
ELECTROLYTIC TINNING OF STEEL STRIP 67-06 M12-72194
COPPER-COATED STEEL STRIP CUTS COSTS 67-06 M20-70609
LOCALLY-MADE CONTINUOUSLY-COATED STEEL NOW AVAILABLE TO INDUSTRY 67-07 M12-73731
CATALYTIC OXIDATION OF FUMES RECOVERS OVEN HEAT IN CONTINUOUS BAKING OF COATED ALUMINUM STRIP 67-08 M10-75499
VERSATILE COIL COATING LINE FOR SPAIN 67-08 M12-74949
COIL-COATING LINE IN SPAIN 67-08 M12-75135
THE LARGE-SCALE DEPOSITION OF PROTECTIVE LAYERS ON STEEL STRIP BY VACUUM DEPOSITION 67-08 M12-75671
NICKEL SLURRY COATS STEEL STRIP 67-08 M12-76179
CONTINUOUS STRIP COATING LINE IN SPAIN 67-08 M12-76195

STRIP, COLD ROLLING
ELASTIC DEFORMATION IN COLD ROLLING 67-01 M17-57920

STRIP, CORROSION
THE TESTING OF WELDS FOR INTERCRYSTALLINE STRESS CORROSION 67-04 M18-67705
IMPROVING INTERGRANULAR CORROSION RESISTANCE OF SHEET AND STRIP OF KH18N9T --KH18N10T-- STAINLESS STEEL 67-05 M18-69827
RAISING THE RESISTANCE OF KH18N9T --KH18N10T-- STEEL SHEET AND STRIP TO INTERCRYSTALLITE CORROSION 67-12 M18-82261

STRIP, CRYSTAL LATTICES
TWO-TRIANGLE LOOPS IN QUENCHED ALUMINUM 67-01 M13-57125
STABILIZATION OF SIZE OF MATRIX GRAIN IN TRANSFORMER STEEL THIN STRIP 67-09 M14-77779

STRIP, CUTTING
THE DESIGN OF CUTTING TOOLS FOR LOW-WASTE CUTTING OF STRIP 67-06 M08-70586
THE PRODUCTION AND APPLICATIONS OF SLIP STRIP 67-07 M07-74114
HUGE SHEARING LINE SPEEDS STEELCASE SHEETS 67-07 M08-73211

STRIP, DEFECTS
DEFECTS IN THE HEAT TREATMENT OF COLD ROLLED STEEL STRIP. PT. 1. DEFECT OF ANNEALED LOW-CARBON STEEL STRIP 67-05 M10-69076

STRIP, DIMENSIONAL MEASUREMENTS
THICKNESS GAGING--WHERE THE CUSTOMERS MIKE IS ALWAYS RIGHT 67-09 M19-76497

STRIP, ELECTRICAL PROPERTIES
TEMPERATURE DEPENDENCE OF THE ELECTRICAL RESISTIVITY OF ALUMINIUM FILMS 67-05 M15-68748

STRIP, FORMING
GEOMETRIC PARAMETERS OF THE CONTINUOUS AREA OF FORMATION OF TUBES 67-04 M07-67613
A METHOD FOR CONTINUOUS SHAPING OF STRAIGHT-SEAMED TUBE BLANKS 67-09 M07-77636
A NEW CONTINUOUS METHOD OF FORMING THE SKELP FOR STRAIGHT SEAM WELDED TUBES 67-11 M07-80924

STRIP, HEAT TREATMENT
NEW METHOD FOR THE THERMAL TREATMENT OF ALUMINUM STRIP. PT. 2. 67-02 M10-59974
CONTINUOUS HEAT TREATING FURNACES FOR ALUMINIUM AND LIGHT ALLOY STRIP 67-04 M10-66670
OPEN-COIL ANNEALING 67-04 M10-66727
CAUSES FOR THE FORMATION OF CRUST ON THE ROLLERS OF TOWER-TYPE FURNACES DURING HEAT TREATMENT OF STEEL STRIP 67-06 M10-71263
QUENCHING OF BERYLLIUM BRONZE STRIP 67-06 M10-71312
EQUIPMENT FOR THERMAL TREATMENT OF NONFERROUS METAL STRIP IN THE FORM OF A CONTINUOUS STRAND 67-06 M10-71941
THE APPLICATIONS AND ADVANTAGES OF AIR COILS --OR PNEUMATIC COILS-- FOR A CONTINUOUS AUTOMATIC RECORDING OF THE MAGNETIC VALUES OF SILICON STEEL STRIP 67-07 M10-73809
INVESTIGATION ON THE EFFECT OF A SHORT-TIME RECRYSTALLIZING ANNEALING TREATMENT ON THE MECHANICAL TECHNOLOGICAL PROPERTIES OF UNALLOYED THIN STEEL STRIP, POOR IN CARBON, UNDER PARTICULAR CONSIDERATION OF QUENCH AGING

67-08 M10-75393
FORMATION OF DEPOSITS ON ROLLERS OF TOWER FURNACES DURING HEAT TREATMENT OF STEEL STRIP
67-08 M10-75732
START-UP AND ADJUSTMENT OF A ROLLER FURNACE IN A CONTINUOUS HOT GALVANIZING UNIT
67-08 M12-76284
PATENTING OF STEEL STRIP IN FLUIDIZED BED AFTER ROLLING 67-09 M10-77370
CONVECTIVE HEAT EXCHANGE IN PLANE-FLOW COOLING OF STEEL STRIP 67-09 M10-77751
OPEN-COIL ANNEALING 67-09 M10-77840

STRIP, MECHANICAL PROPERTIES
EFFECT OF NOTCH ON DISTRIBUTION OF FIELDS OF TEMPERATURE STRESSES 67-04 M17-66428
THE ROLLING OF WATER-PULVERIZED KANTHAL FE ALLOY POWDER 67-06 M09-71740
THE BENDING AND RESIDUAL STRESSES OF STRIPS
67-06 M17-70587
COLUMBIUM-ALLOYED LOW-CARBON STEEL
67-06 M17-71266
THE EFFECT OF FINITE SPECIMEN WIDTH ON THE RESIDUAL STRENGTH OF LIGHT ALLOY SHEET
67-06 M17-71499
THE PRODUCTION AND PROPERTIES OF DUCTILE COBALT STRIP 67-07 M09-73826
THE COMPACTION OF METAL POWDERS BY ROLLING
67-07 M09-73866
EFFECTS OF NOTCHES ON THE DISTRIBUTION OF TEMPORARY THERMAL STRESS FIELDS 67-07 M17-72687
EFFECT OF STRUCTURE AND CHEMICAL COMPOSITION ON THE MECHANICAL PROPERTIES OF HEAT TREATED UNALLOYED STRIP STEELS 67-07 M17-73287
INFLUENCE OF SURFACE TREATMENT ON THE ELASTIC PROPERTIES OF THIN RIBBONS OF BR. OF 6.5-0.15 BRONZE 67-08 M17-74986
MILD STEEL WITH NIOBIUM ADDED 67-08 M17-75735

STRIP, METAL FORMING
NEW TRANSFER PRESSES WORK DOUBLE TIME
67-01 M08-58474

STRIP, METAL WORKING
AUTOMATIC GAGE CONTROL --AGC-- OF HOT STRIP MILL AT SAKAI STEEL WORKS 67-02 M07-58939
CONSTANT-GAGE ALUMINUM STRIP PRODUCED BY ROLLING MILL 67-02 M07-58971
THE QUALITY OF ELECTRICALLY WELDED TUBE AS RELATED TO THE FLAT ANISOTROPY OF THE HOT ROLLED STRIP
67-04 M07-68148
FRENCH STOPS SPEED BLANKING 67-05 M08-68774
SMOOTH-EDGE BLANKING FOR ACCURATE STAMPINGS
67-06 M08-69955
CALCULATING WIRE-DRAWING FORCE FROM THE PLASTIC DEFORMATION WHEN STRIP IS DRAWN 67-08 M07-76074
THE CONTINUOUS STRIP STRETCHER LEVELING PROCESS
67-09 M07-77148

STRIP, MICROSTRUCTURE
ON THE CONTINUOUS CASTING OF ALUMINUM-URANIUM ALLOYS 67-01 M03-57289
DEFECTS OF ANNEALED HIGH-CARBON STEEL STRIP
67-07 M14-73263
THE ORIGIN OF RIDGING IN 17 PER CENT CR STAINLESS STEEL HOT STRIPS 67-09 M13-78241

STRIP, NONDESTRUCTIVE TESTING
STRIP THICKNESS MEASUREMENT WITH RADIONUCLIDES
67-03 M19-65625
THE CONTINUOUS ULTRASONIC TESTING OF HOT ROLLED STRIP 67-07 M19-72681
THE AUTOMATION OF THE CONTINUOUS NONDESTRUCTIVE TESTING OF HOT ROLLED PRODUCTS
67-07 M19-72713

STRIP, PLATING
ELECTROLYTIC TIN PLATING IN FUSED SALT BATH
67-04 M12-67289

STRIP, POWDER METALLURGY
ROLLING ALUMINUM POWDER INTO COILED DENSE-EDGE STRIP 67-04 M09-66841
ROLL COMPACTING OF ALUMINUM-CLAD SINTERED STRIP
67-08 M09-74915
SG-100 NICKEL --HIGH PURITY NICKEL--
67-09 M09-76526

STRIP, QUALITY CONTROL
AUTOMATIC THICKNESS GAGE FOR COLD ROLLED STRIP
67-09 M19-76858

STRIP, ROLLING
ROUNDED-EDGE STRIP PRODUCTION BY ROLL FLATTENING WIRE 67-01 M07-58183
ADJUSTMENT OF CONTINUOUS ROD AND STRIP MILLS
67-01 M07-58291
DEVELOPMENT IN ROLLING MILLS 67-01 M07-58578
INFLUENCE OF METALLURGICAL FACTORS ON HOT STRIP MILL DESIGN 67-02 M07-60238
IMPROVED EFFICIENCY OF ROLL CHANGE OPERATION AT SHAPE MILL BY USING PERT METHOD
67-02 M07-60756
ALUMINIUM STRIP ROLLING AT DOLGARROG
67-02 M07-61123
CLOSER TOLERANCE ALUMINIUM STRIP JUSTIFIES ADVANCED MILL DESIGN 67-02 M07-61849
THE CRITICAL SECTION ANGLE IN ROLLING WIDE STRIPS
67-04 M07-66616
THE SLIP LINE FIELD IN ROLLING OF THICK STRIP
67-04 M07-67610
EQUATIONS FOR CALCULATING FORWARD SLIP AND EXPERIMENTAL VERIFICATION IN COLD ROLLING STRIP WITH TENSION 67-04 M07-67612
STUDY OF SPECIFIC PRESSURE DURING METAL POWDER ROLLING 67-04 M09-67334
CONSTANT GAP MILL IN SERVICE. HIGHLY SUCCESSFUL FIRST INSTALLATION AT DOLGARROG
67-05 M07-69872
CALCULATION METHOD FOR HOT ROLLING OF STEEL SHEET AND STRIP 67-06 M07-70809
ADVANCED ALUMINIUM ROLLING MILL
67-06 M07-70843
EFFECT OF TRANSITION PROCESSES IN CONTINUOUS COLD ROLLING ON THE THICKNESS VARIATION OF THE STRIP
67-06 M07-71256
ALUMINIUM STRIP MILL WITH CONSTANT-GAP CONTROL SYSTEM 67-06 M07-71297
CONSTANT-GAP MILL IN SERVICE--LOWEY-ROBERTSON DESIGN PRODUCES CLOSE-TOLERANCE STRIP
67-06 M07-72017
DETERMINATION OF THE REPARTITION OF STRIP TENSION DURING THE COLD ROLLING OF WIDE STEEL STRIP
67-07 M07-72477
CONTROL OF A MULTISTAND HOT-STRIP MILL
67-07 M07-72900
CALCULATION OF THE COLD ROLLING TORQUE OF STRIP WITH TENSION 67-07 M07-73475
STRIP THICKNESS REGULATION FOR REVERSING COLD ROLLING MILLS 67-07 M07-74021
RAPID STOPPING DEVICES FOR HIGH-SPEED REVERSING ROLLING MILLS 67-08 M07-74928
SPECIFIC PRESSURE DISTRIBUTION IN STRIP WIDTH DURING ROLLING 67-08 M07-75008
EFFECT OF TRANSITION PROCESSES IN CONTINUOUS COLD ROLLING ON THICKNESS VARIATIONS OF STRIP
67-08 M07-75725
EFFECT OF ROLL STAND RIGIDITY ON LENGTHWISE THICKNESS VARIATION OF STRIP 67-08 M07-76277
NO CONTACT STRIP THICKNESS MEASUREMENT WITH RADIOISOTOPES 67-08 M19-75765
CAUSES OF BROKEN EDGES IN HOT STRIP ROLLING
67-09 M07-76714
POSSIBILITY OF SIMULATION OF HOT STRIP MILL PRACTICE OF STEEL BY COUNTER-BLOW FORGING
67-09 M07-77258
THE EFFECT OF VARIATIONS IN THE WORKING OR BACKUP ROLL BALANCING POWER ON THE DISTRIBUTION OF STRIP TENSION OVER THE STRIP WIDTH IN THE COLD ROLLING OF WIDE STRIP 67-09 M07-77345
INVESTIGATION OF HIGH-SPEED COLD ROLLING OF LOW-CARBON STEEL WITH VARIOUS EMULSIONS
67-09 M07-77364
PERIODIC SURFACE FINISH AND TORQUE EFFECTS DURING COLD STRIP ROLLING 67-09 M07-77511
INFLUENCE OF RIGIDITY OF WORKING STAND ON NON-UNIFORMITY IN LONGITUDINAL THICKNESS OF STRIP
67-10 M07-79270
EFFECT OF THE DEFORMATION ON THE CROSS-SECTIONAL THICKNESS TOLERANCE OF MILD STEEL STRIP
67-10 M07-79813
AUTOMATIC GAGING OF STRIP IN A CONTINUOUS HOT 2500 MILL 67-10 M07-79918
TENSION LEVELING OF FERROUS AND NONFERROUS STRIP
67-12 M07-82928

STRIP, SLITTING
COLD STRIP SLITTING LINE 67-06 M07-71415

STRIP, STRESS ANALYSIS
USE OF COMPUTERS FOR CALCULATING STRESS-STRAIN STATE OF ROLLING ROLLS. PT. 1
67-04 M17-66083

STRIP, TEXTURE
CHANGES IN TEXTURE OF HOT ROLLED STRIP OF LOW-CARBON STEEL 67-04 M14-67513

STRIP, TRANSFORMERS
THE MANUFACTURE OF STRIP CONDUCTORS FOR POWER

TRANSFORMERS. PT. 2 67-06 M17-71414

STRIP, WELDING
WELDING OF STEEL STRIP IN THE PRODUCTION OF CORED ELECTRODES 67-02 M11-60017
MASH SEAM WELD METHOD 67-02 M11-60940
STRIP TOO THIN TO BUTT WELD. MASH-LAP IT 67-03 M11-65362
CONSUMABLE ELECTRODE GAS SHIELDED WELDING OF STEEL 67-04 M11-67138
U. S. STEELS ERW PIPE MILL AT LORAIN IS IN PRODUCTION 67-05 M20-69489
STUDY OF HEATING STRIP DURING CONTINUOUS FURNACE WELDING OF TUBES 67-08 M11-75014
ARGON ARC BUTT WELDING OF THIN COPPER STRIPS 67-09 M11-78131
BUTT FLASH WELDING OF THIN ALUMINUM STRIPS 67-12 M11-82634

STRIP MILLS
SEE ALSO COLD TANDEM MILLS
HOT STRIP MILLS
PLANETARY MILLS
LUBRICATION OF A NEW 80 INCH HOT STRIP MILL 67-01 M07-57979
OPERATION AND USE OF DATA PROCESSING PLANTS IN ROLLING MILLS 67-01 M07-58110
ON THE PRODUCT OF PLATE MILL AT WAKAYAMA STEEL WORKS 67-01 M07-58244
SEVERAL EXPERIMENTS ON FOUR-HIGH PLATE MILL 67-01 M07-58245
TECHNICAL AND ECONOMIC CONSIDERATIONS IN PLATE MILL PROCESS CONTROL 67-01 M07-58490
DEVELOPMENT IN ROLLING MILLS 67-01 M07-58578
CONSTANT-GAGE ALUMINUM STRIP PRODUCED BY ROLLING MILL 67-02 M07-58971
INFLUENCE OF METALLURGICAL FACTORS ON HOT STRIP MILL DESIGN 67-02 M07-60238
EXPERIMENTAL USE OF AUTOMATIC REGULATION OF STRIP THICKNESS ON THE CONTINUOUS 2500 THIN PLATE MILL 67-04 M07-66212
EFFECT OF LIME ON THE TRANSFORMATION OF SCALES DURING COOLING 67-04 M18-66989
ALUMINIUM STRIP MILL WITH CONSTANT-GAP CONTROL SYSTEM 67-06 M07-71297
CONTROL OF A SINGLE STRAND COLD STRIP MILL 67-06 M07-72098
SLACK ACCUMULATION IN STEEL MILL CONTINUOUS PROCESSING LINES 67-06 M20-71002
CONTROL OF A MULTISTAND HOT-STRIP MILL 67-07 M07-72900
SIMPLIFIED CALCULATION OF ROLL-SEPARATING FORCE AND TORQUE IN STEEL STRIP ROLLING 67-08 M07-75392
NEW TWO-STAND MILL AT EBBW VALE 67-11 M07-81186

STRIP MILLS, AUTOMATIC CONTROL
DETERMINING THE PARAMETERS OF A DEVICE USED FOR AUTOMATIC STRIP THICKNESS CONTROL IN THE FINISHING STANDS OF CONTINUOUS HOT ROLLING MILLS 67-09 M07-76977

STRIP MILLS, AUTOMATION
AUTOMATIC GAGE CONTROL --AGC-- OF HOT STRIP MILL AT SAKAI STEEL WORKS 67-02 M07-58939
DESIGN AND OPERATION OF AUTOMATIC GAGE CONTROL ON A 68-IN. HOT STRIP MILL 67-02 M07-60236
INLAND STEELS COMPUTERIZED STRIP MILL AND COIL CONVEYOR 67-09 M07-76472
CONTROL REQUIREMENTS FOR STEEL STRIP IN MOTION--AN ELECTRICAL MANUFACTURERS ASSESSMENT 67-10 M07-78871

STRIP MILLS, BEARINGS
DOMESTIC PRODUCTION OF SLEEVES AND BUSHINGS FOR MILL BEARINGS 67-01 M20-57915

STRIP STEEL, CLADDING
BENDING BIMETALLIC STRIP DURING ROLLING 67-04 M12-66618

STRIP STEEL, CLEANING
CONTINUOUS PRETREATMENT OF SHEET AND STRIP BEFORE PAINTING 67-01 M12-57164
PICKLING TIMES FOR HOT ROLLED STEEL STRIP IN HYDROCHLORIC AND SULPHURIC ACIDS 67-11 M07-80718
ABRASIVES REPLACE ACID IN DESCALING STEEL STRIP 67-12 M12-83136

STRIP STEEL, COATING
PLASTIC COATING OF STEEL SHEETS 67-01 M12-57211
NICKEL SOUPS UP STRIP STEEL 67-01 M12-57433
LACQUERING, COATING AND LAMINATION OF WIDE STRIP 67-01 M12-58111
PRECOATED METALS--THEIR USES AND ADVANTAGES 67-08 M12-74650
ELECTROLYTIC TINNING OF STRIP STEEL 67-09 M12-77674
INTRODUCING AND RUNNING IN THE STRAIGHT-LINE FURNACE OF A CONTINUOUS HOT ZINC-PLATING PLANT 67-10 M12-79277
TINPLATE 67-10 M12-79440
DRY-POWDER ALUMINIZING OF STEEL STRIP 67-11 M12-81139
COIL COATING OF METALS 67-12 M12-82041
FINISH COATING OF STEEL STRIP COILS 67-12 M12-82886
SENDZIMIR-GALVANIZED SHEET. USE AND APPLICATIONS 67-12 M12-83131
SLURRY-COAT AIMS AT FABRICATORS 67-12 M12-83135
METHOD FOR THE CONTINUOUS SURFACE TREATMENT OF METAL STRIP 67-12 M12-83453

STRIP STEEL, COILING
DYNAMICS OF OPERATION OF COILER FOR HOT ROLLED STRIP 67-01 M07-57260

STRIP STEEL, HEAT TREATMENT
CONTINUOUS ANNEALING OF MILD STEEL STRIP 67-06 M10-71942
DECARBURIZING TRANSFORMER STRIP IN STRAIGHTWAY FURNACES 67-10 M10-78437
HEAT TREATMENT OF SAW BLADES USING FUSED SALTS 67-10 M10-78439
EFFECT OF CERTAIN PRODUCTION FACTORS ON THE PROPERTIES OF COIL TRANSFORMER STEEL 67-10 M10-78440
DECARBURIZATION OF TRANSFORMER STRIP IN THROUGH FURNACES 67-12 M10-83435
HEAT TREATMENT OF COMB STRIP WITH APPLICATION OF FUSED SALTS 67-12 M10-83437
EFFECT OF CERTAIN TECHNOLOGICAL FACTORS ON PROPERTIES OF TRANSFORMER STEEL IN COILS 67-12 M10-83438

STRIP STEEL, MAGNETIC PROPERTIES
RECOVERY OF MAGNETIC PROPERTIES IN A STRAINED STRIP OF TRANSFORMER STEEL AFTER ANNEALING IN VARIOUS MEDIA 67-04 M15-66495

STRIP STEEL, MECHANICAL PROPERTIES
METALLURGICAL IMPROVEMENT OF THE QUALITY OF COLD ROLLED D. D. Q. RIMMED STEEL SHEET 67-02 M17-58845
DEFECTS OF QUENCHED AND TEMPERED HIGH-CARBON STEEL STRIP. PT. 3. DEFECTS IN THE HEAT TREATMENT OF COLD ROLLED STEEL STRIP 67-10 M17-79727
VARIATION OF YIELD STRESS WITH STRAIN AND STRAIN RATE IN MILD STEEL 67-11 M17-81022

STRIP STEEL, METAL WORKING
DETERMINING THICKNESS VARIATION IN HOT ROLLED STRIP 67-01 M07-57182
SHAPE IMPROVEMENT OF THIN STEEL STRIP BY TENSION LEVELLER 67-01 M07-58564
SELECTING EMULSION LUBRICANTS FOR COLD STEEL STRIP ROLLING 67-02 M07-58888

STRIP STEEL, QUALITY CONTROL
AUTOMATIC STRIP THICKNESS REGULATOR 67-01 M19-57679

STRIP STEEL, ROLLING
ROLLING FORCE IN THE CASE OF SKINPASS ROLLING 67-02 M07-58844
DESIGN AND OPERATION OF AUTOMATIC GAGE CONTROL ON A 68-IN. HOT STRIP MILL 67-02 M07-60236
ASPECTS OF THE MANUFACTURE OF COLD-ROLLED STEEL SHEET OF LOW-YIELD STRENGTH 67-02 M07-61654
STUDY OF SHEET METAL MADE BY LONGITUDINAL AND CROSS ROLLING FOR THE PRODUCTION OF LARGE-DIAMETER ELECTROWELDED PIPE 67-02 M07-61946
STUDY OF METAL IN LONGITUDINAL AND TRANSVERSE ROLLING IN ELECTRICALLY-WELDED LARGE DIAMETER PIPES 67-04 M07-67779
CHANGING STRIP THICKNESS AS AFFECTED BY ROLLING RATE 67-05 M07-68551
IMPROVING THE TECHNOLOGY OF WELDING AND REDUCING THIN-WALLED GAS PIPES ON CONTINUOUS FURNACE BUTT WELDING MILLS 67-05 M11-68552
THE PRODUCTION OF WIDE STRIP FROM STEELS OF LOW CARBON CONTENT 67-06 M07-71704
VARIATIONS OF STRIP THICKNESS IN RELATION TO ROLLING SPEED 67-07 M07-72462
IMPROVING THE METHOD OF WELDING AND REDUCING THIN-WALLED GAS AND WATER PIPES ON BENCHES FOR CONTINUOUS FURNACE BUTT WELDING 67-07 M11-72463
IMPROVEMENT OF PRECISION OF SHEET ROLLING ON A

STRIP STEEL
CONTINUOUS MILL 67-10 M07-78429
AUTOMATIC BRAKING AND STOPPING OF REVERSING COLD ROLLING MILLS 67-10 M07-79379
SUGGESTIONS FOR INCREASING THE EFFICIENCY OF COLD ROLLING TANDEM MILLS 67-11 M07-80363
NEW TWO-STAND MILL AT EBBW VALE 67-11 M07-81186
THE PRESENT STATUS OF PRODUCTION OF COLD WIDE STRIP OF STAINLESS STEEL AT THE DUETSCHEN HIGH-GRADE STEELWORKS 67-12 M04-83286
STATISTICAL ANALYSIS OF LENGTHWISE THICKNESS VARIATION IN COLD ROLLED STRIP 67-12 M07-81712
HOT ROLLING OF LARGE STRIPS. ASPECTS RELATED TO THE QUALITY OF THE FINISHED PRODUCTS 67-12 M07-82385
HIGHER DIMENSIONAL ACCURACY IN ROLLING SHEET ON THE CONTINUOUS MILL 67-12 M07-83427
STRIP STEEL, SURFACE FINISHING
FINISHING DEPARTMENT INSPECTION OF ROLLED PRODUCTS 67-02 M19-62070
STRIPPING /PEELING/
ELECTRODEPOSITED METALS HARVESTED WITH ELECTROHYDRAULIC SHAKER 67-04 M03-66736
METAL STRIPPING IN THE ELECTRONICS INDUSTRY 67-12 M12-81752
STRONG LIQUOR
SEE PREGNANT LIQUORS
STRONTIUM, ATOMIC PROPERTIES
ELECTRONIC STRUCTURE OF CA, SR, AND BA UNDER PRESSURE 67-06 M16-69907
STRONTIUM, BINARY SYSTEMS
THE BINARY SYSTEMS SR-IN AND BA-IN 67-04 M13-66159
INVESTIGATION OF BISMUTH ALLOYS WITH BARIUM AND BISMUTH ALLOYS WITH STRONTIUM 67-05 M13-69239
STRONTIUM, ELECTRICAL PROPERTIES
THE RESISTIVITY OF CALCIUM, STRONTIUM AND BARIUM UNDER PRESSURE 67-07 M15-73143
STRONTIUM, EMISSION
ADSORPTION AND ELECTRON EMISSION OF ALKALINE-EARTH METAL FILMS ON TUNGSTEN, IRIDIUM, AND RHODIUM 67-06 M16-70508
STRONTIUM, FERMI SURFACE
THE FERMI SURFACE OF STRONTIUM 67-06 M16-70470
STRONTIUM, INTERMETALLICS
STRUCTURE OF THE TWO NEW INTERMETALLIC PHASES--SRCU5 AND BAPD5 67-06 M13-70120
STRONTIUM COMPOUNDS, BENEFICIATION
EFFECT OF PARAMAGNETIC CENTERS OF CELESTINE ON FLOTATION PROPERTIES 67-11 M02-81209
STRONTIUM COMPOUNDS, CRYSTAL LATTICES
CRYSTALLOGRAPHY OF BA3UFE2O9 AND SR3UFE2O9 COMPOUNDS 67-09 M13-76468
RAMAN SPECTRA OF CAWO4, SRWO4, CAMOO AND SRMOO4 67-09 M13-77179
STRONTIUM COMPOUNDS, FERRITES
STUDY OF MAGNETIC RESISTANCE OF ORIENTED HEXAGONAL FERRITES 67-04 M15-66485
STRONTIUM COMPOUNDS, MAGNETIC PROPERTIES
CRYSTAL ANISOTROPY AND SATURATION MAGNETIZATION OF HARD FERRITES WITH A COMPOSITION NEAR THE M-COMPOUND PREPARED BY MEANS OF THE VERNEUIL METHOD 67-06 M05-70996
STRONTIUM COMPOUNDS, OPTICAL PROPERTIES
FAR-INFRARED OPTICAL PROPERTIES OF CAF2, SRF2, BAF2 AND CDF2 67-09 M15-77178
STRONTIUM COMPOUNDS, REACTIONS /CHEMICAL/
REDUCTION OF ZINC OXIDE BY CARBON MONOXIDE IN THE PRESENCE OF STRONTIUM OXIDE 67-06 M03-69942
STRONTIUM COMPOUNDS, REFINING
ZONE PURIFICATION OF STRONTIUM NITRATE 67-02 M03-61551
STRONTIUM COMPOUNDS, TRANSPORT PROPERTIES
EVAPORATED METALLIC CONTACTS OT CONDUCTING STRONTIUM TITANATE SINGLE CRYSTALS 67-11 M15-81085
STRUCTURAL ANALYSIS
A SURVEY OF SOME RECENT BRITISH WORK ON THE BEHAVIOR OF WARSHIP STRUCTURES 67-04 M17-66710
COMPARISON OF CALCULATED AND MEASURED STRESSES FOR A TENSION BAR WITH WELDED-ON CIRCULAR STRAPS 67-07 M17-72424
STRUCTURAL BOLTS, MECHANICAL PROPERTIES
CAN HIGH-STRENGTH BOLTS BE USED FOR NONSTRUCTURAL JOINTS 67-03 M20-65434
STRUCTURAL ELEMENTS
SEE STRUCTURAL MEMBERS
STRUCTURAL FORMS
SEE DOMES
SHELLS /STRUCTURAL FORMS/
STRUCTURAL MATERIALS
SEE ALSO PRESTRESSED CONCRETE
REINFORCED CONCRETE
REINFORCING STEELS
STRUCTURAL STEELS
DEVELOPMENT TRENDS FOR THE USE OF STEEL SHEETS AND STEEL FOIL AS STRUCTURAL MATERIALS FOR SUPERSONIC AIRCRAFT AS SHOWN IN THE XB-70A OF NORTH AMERICAN AVIATION INC 67-01 M20-58113
MATERIALS OF CONSTRUCTION 67-03 M20-65696
NEW HIGH-STRENGTH STEELS AND THEIR USE IN THE MINING ENGINEERING INDUSTRY 67-04 M17-66857
WANTED.. MATERIALS THAT DO NOT EXIST 67-06 M01-71238
STRUCTURAL MATERIALS, AEROSPACE
AEROSPACE STRUCTURAL METALS HANDBOOK. V2. NON-FERROUS LIGHT METAL ALLOYS 67-04 M01-66200
STRUCTURAL MATERIALS, CORROSION
CLADDING AND STRUCTURAL MATERIALS 67-06 M01-70092
STRUCTURAL MATERIALS, JOINING
ADHESIVE BONDING OF ALUMINIUM STRUCTURAL COMPONENTS--PRACTICE AT HOME AND ABROAD. PT. 2 67-01 M11-58300
STRUCTURAL MATERIALS, MECHANICAL PROPERTIES
STRENGTH AND STRUCTURE OF ENGINEERING MATERIALS 67-03 M17-65946
THE EVALUATION OF CAST IRON AS A STRUCTURAL MATERIAL 67-07 M17-72756
FRACTURE OF STRUCTURAL MATERIALS 67-07 M17-74129
SELECTED MECHANICAL PROPERTIES OF CLADDING AND STRUCTURAL MATERIALS. REFRACTORY METALS 67-09 M17-77322
STRUCTURAL MATERIALS, METAL WORKING
STRAIGHTENING OF STRUCTURAL COMPONENTS IN THE SHAPE OF PLATES WITH THE AID OF EXPLOSIVES 67-01 M08-58283
STRUCTURAL MATERIALS, PHYSICAL PROPERTIES
ENGINEERING PROPERTIES OF SELECTED CERAMIC MATERIALS 67-07 M05-73875
STRUCTURAL MEMBERS
SEE ALSO BEAMS /STRUCTURAL/
BOX BEAMS
CANTILEVER BEAMS
COLUMNS /STRUCTURAL/
GIRDERS
I BEAMS
PLATES /STRUCTURAL MEMBERS/
STRUCTURAL MEMBERS, COATING
THE CORROSION PROTECTION OF STEEL STRUCTURES BY SPRAY GALVANIZING 67-07 M18-73233
FABRICATION OF PLATED STRUCTURAL MEMBERS--COMPARISON OF ROLL PLATING AND SURFACING 67-08 M12-75788
STRUCTURAL MEMBERS, CORROSION PREVENTION
ANTI-CORROSIVE TREATMENT FOR THE SEVERN BRIDGE 67-01 M18-58511
STRUCTURAL MEMBERS, JOINING
SUMMARY AND DISCUSSION OF JOINT DESIGN DATA FOR BERYLLIUM AEROSPACE STRUCTURES 67-04 M17-67894
STRUCTURAL MEMBERS, MECHANICAL PROPERTIES
THE PERFORMANCE OF CROSS-ROLLED SHEET IN STRUCTURAL APPLICATIONS 67-03 M17-65296
COMPARISON OF CALCULATED AND MEASURED STRESSES FOR A TENSION BAR WITH WELDED-ON CIRCULAR STRAPS 67-07 M17-72424
STRUCTURAL MEMBERS, METAL WORKING
THE STRAIGHTENING OF WELDED STRUCTURAL PARTS OF THE ALZNMG1 AL ALLOY 67-04 M07-68001
STRUCTURAL MEMBERS, WEIGHT MEASUREMENT
LARGE STIFFENED CYLINDER WEIGHT--COST COMPARISONS BETWEEN BE-38 PER CENT AL AND OTHER MATERIALS 67-06 M20-70613
STRUCTURAL MEMBERS, WELDING
RAILROAD OVERPASS DEPENDS ON HIGH-STRENGTH STEEL 67-01 M11-58757
WELDING KEEPS APOLLO ON SCHEDULE 67-06 M11-71573
STRUCTURAL SHAPES
SEE ALSO ANGLE IRON
BOX BEAMS
CHANNEL IRON
I BEAMS

THE ALUMINIUM EXTRUDED SECTION AND ITS USE AS A STRUCTURAL ELEMENT 67-04 M20-66606

STRUCTURAL SHAPES, CUTTING

AUTOMATIC AIR-ARC CUTTING OF METAL WITH A ROTARY DISK 67-04 M11-67810

AUTOMATIC ARC-AIR CUTTING OF METAL WITH A ROTATING DISC 67-06 M11-70310

STRUCTURAL SHAPES, EXTRUSION

THE EXTRUSION OF BERYLLIUM MILL SHAPES 67-04 M07-67882

STRUCTURAL SHAPES, JOINTS

STATIC AND REPEATED LOADING CHARACTERISTICS OF JOINTS IN BERYLLIUM STRUCTURES 67-03 M11-65293

STRUCTURAL SHAPES, METAL WORKING

BETHLEHEMS BEAM STRAIGHTENER FEATURES VARIABLE-CENTER ADJUSTMENT 67-05 M08-69490

STRUCTURAL SHAPES, WELDING

PREPARING THE METAL SURFACE FOR SEMIAUTOMATIC SUBMERGED ARC WELDING OF FILLET WELDS 67-04 M11-67812

SURFACE PREPARATION OF METAL FOR THE SEMI-AUTOMATIC SUBMERGED ARC WELDING OF CORNER JOINTS 67-06 M11-70312

STRUCTURAL STEELS

AW DYNALLOY 50 --HIGH STRENGTH STRUCTURAL STEEL-- 67-02 M01-59495

STUDY OF THE EFFECT OF GRAIN SIZE OF STEEL ON THE TRANSITION TEMPERATURE OF THE NOTCH TOUGHNESS 67-06 M17-71750

NEW STEELS AND THEIR APPLICATIONS 67-06 M20-72010

STRUCTURAL STEELS, BIMETALS

ROLLING OF STRUCTURAL ALUMINUM-STEEL BIMETALS 67-06 M12-71358

STRUCTURAL STEELS, BONDING

ADHESIVE BONDING OF STEEL 67-05 M11-69892

STRUCTURAL STEELS, BRAZING

MN AS AN ALLOYING ADDITION TO LMS 60. PT. 2 67-05 M11-68518

STRUCTURAL STEELS, CASTING

THE EFFECT OF CASTING AND SOLIDIFICATION CONDITIONS ON THE PROPERTIES OF ROLLED AND FORGED PRODUCTS 67-01 M04-57916

THE CONTINUOUS CASTING OF SMALL CROSS SECTIONS 67-02 M04-59133

TRANSVERSE AND LONGITUDINAL CRACKS IN BASIC OPENHEARTH BLOOMS 67-02 M04-60828

CONTINUOUS CASTING AND ROLLING WIDE-FLANGE BEAM BLANKS 67-04 M04-67188

STRUCTURAL STEELS, CLEANING

THE CLEANING OF STRUCTURAL PARTS FOLLOWING HEAT TREATMENT IN SALT BATHS 67-06 M12-71275

STRUCTURAL STEELS, COATING

ZINC PAINTS YIELD OPTIMUM CORROSION RESISTANCE 67-04 M18-66333

PROTECTIVE PAINTS FOR STRUCTURAL STEELS 67-04 M18-66559

PROTECTION OF STRUCTURAL STEEL BY FLAME-SPRAYED METALS AND PAINTS 67-05 M12-68820

THE PAINTING OF METAL-SPRAYED STRUCTURAL STEEL 67-07 M18-73641

THE PRODUCTION AND TESTING OF PLASMA SPRAY COATINGS 67-10 M12-79381

STRUCTURAL STEELS, CORROSION

WEATHER RESISTANT STEEL SHEETS 67-01 M18-58116

PRACTICAL TESTING OF STEELS IN EQUIPMENT CONSTRUCTION 67-02 M17-60019

THE BEHAVIOR OF PLAIN CARBON CONSTRUCTION STEELS AND FILLER MATERIALS WHEN SUBJECTED TO SAND EROSION AND CAVITATION IN HYDROTURBINE PLANTS 67-02 M18-59037

CORROSION OF FOUNDATION STEEL PILING AND ITS CATHODIC PROTECTION 67-02 M18-59144

APPLICABILITY OF CATHODIC PROTECTION TO MARINE STRUCTURES 67-02 M18-59484

CORROSION OF STEELS BY SEA WATER 67-02 M18-60043

SUSCEPTIBILITY TO SULFIDE CORROSION CRACKING IN VARIOUS KINDS OF HIGH-STRENGTH STEEL. STUDIES ON SULFIDE CORROSION CRACKING OF WELDABLE HIGH-STRENGTH STRUCTURAL STEEL. PT. 1 67-02 M18-60268

EMBRITTLEMENT OF WELDABLE HIGH-STRENGTH STRUCTURAL STEELS BY SULFIDE CORROSION. PT. 2 67-02 M18-60269

TEST ON SULFIDE CORROSION CRACKING OF WELDABLE HIGH-STRENGTH STRUCTURAL STEELS IN OIL REFINING PLANTS 67-02 M18-60716

ANODIC POLARIZATION BEHAVIOR OF LOW ALLOY STEELS IN SULFURIC ACID SOLUTIONS 67-03 M18-65757

OFFSHORE MAINTENANCE PROGRAM--CORROSION PROTECTION VITAL IN GULF OF MEXICO 67-04 M18-66315

NEW YORK HARBOR CORROSION--PORT OF NEW YORK AUTHORITY CONDUCTS PILE SURVEY 67-04 M18-66317

PREVENTION OF CORROSION FAILURES IN BRIDGE MEMBERS 67-04 M18-67074

CORROSION OF HIGH STRENGTH STEELS IN CARBON DIOXIDE FOR GAS COOLED POWER REACTORS 67-04 M18-67593

THE TESTING OF WELDS FOR INTERCRYSTALLINE STRESS CORROSION 67-04 M18-67705

STEEL TOWERS POPULATE THE SEAS 67-06 M18-71670

HIGH-STRENGTH WELDABLE STEEL WITH INCREASED WEATHER-RESISTING PROPERTIES 67-07 M18-74017

CORROSION-FATIGUE CRACK PROPAGATION IN MODERN HIGH-PERFORMANCE STRUCTURAL STEELS 67-08 M18-75974

MINISTRY OF WORKS CURRENT PRACTICE FOR THE PROTECTION OF STEELWORK ON BRIDGES AND POWER SCHEMES 67-08 M18-76199

CORROSION FATIGUE OF STRUCTURAL METALS IN MINE SHAFT WATERS 67-09 M18-76741

SULFIDE CORROSION CRACKING OF WELDABLE HIGH-STRENGTH STRUCTURAL STEEL AND COUNTERMEASURES 67-09 M18-77097

CORROSION PREVENTION BY SUITABLE DESIGN IN PRACTICE 67-10 M18-78683

STRUCTURAL STEELS, CORROSION PREVENTION

ANTI-CORROSIVE TREATMENT FOR THE SEVERN BRIDGE 67-01 M18-58511

STRUCTURAL STEELS, EXTRUSION

THE MAXIMUM PRESSURE IN THE REVERSE EXTRUSION OF STEEL 67-03 M07-65178

STRUCTURAL STEELS, FORGING

THE PRINCIPAL CAUSES OF THE INCREASING USE OF DROP FORGINGS IN MODERN MACHINE CONSTRUCTION 67-04 M07-68056

STRUCTURAL STEELS, GIRDERS

INTERDEPENDENCE OF TYPE OF SECTION AND STRENGTH OF STEEL 67-04 M17-66566

STRUCTURAL STEELS, HEAT TREATMENT

PRINCIPLES OF HEAT TREATMENT OF STEELS. CARBON CONSTRUCTIONAL STEELS 67-02 M10-59085

RESIDUAL STRESSES IN STRUCTURAL PARTS--A COMMON CAUSE OF DEFECTS AND REJECTS 67-02 M17-60049

STRUCTURAL STEELS, HEAT TREATMENT

SUPERHEATING OF STRUCTURAL STEELS

SUPERHEATING OF STRUCTURAL STEELS 67-02 M17-61986

HEAT TREATMENT OF STRUCTURAL STEELS AND OF TOOL STEELS 67-03 M10-65174

EFFECT OF CARBON CONTENT ON THE MECHANICAL PROPERTIES OF STRUCTURAL CR-NI-MO STEEL AFTER AUSFORMING 67-04 M08-67846

THE TEMPERING BEHAVIOR OF THE 34CR4 ALLOY --BSO-- AND 41CR4 --BSO SPECIAL-- STEELS 67-04 M17-67710

IMPROVING THE STRENGTH OF STRUCTURAL STEEL BY HEAT TREATMENT 67-05 M10-68331

PRINCIPLES OF HEAT TREATMENT OF STEELS. PT. 6. CARBON CONSTRUCTION STEELS 67-05 M19-69347

GRAIN-REFINED C-MN STEELS 67-06 M10-70807

HEAT TREATMENT OF STRUCTURAL STEELS AND OF TOOL STEELS. PT. 2 67-06 M10-70855

HEAT TREATMENT OF CERTAIN SPECIAL STEELS 67-06 M10-71904

HEAT TREATMENT OF LOW-CARBON STEELS 67-06 M10-71933

NEW SALT BATHS FOR LOW-TEMPERATURE HEAT TREATMENT OF STEEL 67-07 M10-72666

INCREASING TENSILE STRENGTH OF STRUCTURAL STEEL BY MEANS OF HEAT TREATMENT 67-07 M10-72859

HEAT TREATMENT OF STRUCTURAL STEEL AND OF TOOL STEELS. PT. 16. FLAME HARDENING 67-07 M10-74221

HEAT TREATMENT OF STRUCTURAL STEELS BY HARDENING AND TEMPERING 67-08 M10-74750

THE STUDY OF SALT BATH NITRIDING FOR STEELS. PT. 1. THE MECHANISM OF SALT BATH NITRIDING 67-09 M10-76684

THE SURFACE BORIDING OF STEEL. PT. 2. GROWTH MECHANISM AND STRUCTURE OF INTERMEDIATE AND DIFFUSION LAYERS 67-09 M10-77879

HEAT TREATMENT OF STRUCTURAL STEELS AND OF TOOL STEEL 67-10 M10-79681

OVERHEATING OF STRUCTURAL STEELS

67-10 M17-78843

STRUCTURAL STEELS, HEATING
RECENT DEVELOPMENTS IN ELECTRIC REHEAT FURNACES
67-02 M07-59150

STRUCTURAL STEELS, IRRADIATION
EFFECT OF CHEMICAL COMPOSITION AND NEUTRON IRRADIATION ON BRITTLE FRACTURE OF IRON AND STEEL
67-12 M16-82815

STRUCTURAL STEELS, MECHANICAL PROPERTIES
SOME OBSERVATIONS ON NIOBIUM IN STEEL
67-01 M17-57516
INVESTIGATION OF THE EFFECT OF HIGH-SPEED HEATING DURING HEAT TREATMENT ON THE STRUCTURE AND PROPERTIES OF STRUCTURAL CARBON STEEL
67-01 M17-58038
THE ATMOSPHERIC-CORROSION-RESISTANT STEEL, SUMITOMO CR2-50 67-01 M17-58249
METALLURGICAL ADVANTAGES AND ADVANCES IN HEAT TREATED STEELS, WITH PARTICULAR REFERENCE TO THE WELDABLE CONSTRUCTIONAL STEELS. PT. 3
67-01 M17-58449
HIGH STRENGTH STRUCTURAL STEELS. PT. 4
67-01 M17-58530
HICON 36 AND HICON 40 --HIGH YIELD STRUCTURAL STEELS-- 67-01 M17-58568
LOW-CYCLE FATIGUE OF STEEL STRUCTURES--AN EXPERIMENTAL INVESTIGATION WITH FULL SCALE SHIP STRUCTURAL COMPONENTS 67-01 M17-58599
FRACTURE TEST METHODS AND THEIR APPLICATION
67-01 M17-58602
POSSIBILITIES AND ASPECTS OF THE EVALUATION OF TOUGHNESS TESTS WITH RESPECT TO BRITTLE FRACTURE SAFETY 67-01 M17-58795
BASIC PRINCIPLES OF HEAT TREATMENT OF STEELS
67-02 M14-60864
TESTS FOR DETERMINING THE FATIGUE STRENGTH OF PURE BASIC WELD DEPOSIT, DEPOSITED WITHOUT WEAVING AND BY WEAVING 67-02 M17-59038
MECHANICAL AND ELECTRON-MICROSCOPE INVESTIGATION OF TEMPERING PROCESSES IN V-CONTAINING AND V-FREE HARDENABLE STRUCTURAL STEELS 67-02 M17-59624
PROCEEDINGS OF THE SECOND CONFERENCE ON DIMENSIONING AND STRENGTH CALCULATIONS
67-02 M17-59701
THE APPROXIMATION CALCULUS OF THE STRESS CONCENTRATION FACTORS OF PLATES WITH COVER STRAPS WELDED ON 67-02 M17-59703
THE OBSERVATION OF THE BRITTLE-DUCTILE TRANSITION IN STEEL AT STRESS WAVE ATTENUATION
67-02 M17-59712
PHYSICAL REASONS FOR THE DIFFERENT GROUPING OF STEELS ACCORDING TO THEIR TRANSITION TEMPERATURE UNDER DIFFERENT TEST CONDITIONS
67-02 M17-59713
INVESTIGATION OF THE ENDURANCE OF HIGH-STRENGTH REINFORCING BARS FROM LOW-ALLOY STEEL OF THE A-IV CLASS 67-02 M17-59788
BUILDING CONSTRUCTION AND HIGH-STRENGTH STEEL
67-02 M17-59962
PRESENT USE OF HIGH-STRENGTH STEEL FOR BRIDGE AND PENSTOCK STRUCTURES 67-02 M17-59965
HIGH-STRENGTH PRECIPITATION-HARDENED CONSTRUCTIONAL STEELS 67-02 M17-60692
THE INITIATION OF BRITTLE FRACTURE IN NOTCHED TENSION SPECIMENS 67-02 M17-60908
STRUCTURE AND PROPERTIES OF STRUCTURAL STEEL MADE BY VARIOUS METHODS 67-02 M17-61951
BRITTLE FRACTURE OF FULL SCALE STRUCTURES DAMAGED BY FATIGUE 67-03 M17-65309
THE DUCTILE-BRITTLE TRANSITION AT VARIOUS NOTCH SHARPNESSES 67-03 M17-65324
THE MECHANISM OF THE INFLUENCE OF RARE-EARTH METALS ON THE PROPERTIES OF STRUCTURAL STEEL
67-03 M17-65970
REPUBLIC-50 --HIGH-STRENGTH LOW-ALLOY CONSTRUCTION STEEL-- 67-04 M01-66122
HIGH-STRENGTH LOW-ALLOYED WELDABLE CONSTRUCTIONAL STEELS, A GENERAL SURVEY 67-04 M01-66602
FRACTURE TOUGHNESS DETERMINATIONS OF A-302B AND NI-MO-V STEELS WITH VARIOUS SIZE SPECIMENS
67-04 M17-66237
INFLUENCE OF THE LIQUID SLAG REFINING ON TOUGHNESS OF LOW ALLOY STRUCTURAL STEEL
67-04 M17-66360
TEMPER BRITTLENESS OF CAST STEEL
67-04 M17-66361
WAYS TO INCREASE THE STRENGTH OF STRUCTURAL STEELS
67-04 M17-66378
ALTERNATE LOADING RESISTANCE OF HIGH-STRENGTH STRUCTURAL STEEL 67-04 M17-66430
WELDED SPIRAL-LAYERED PRESSURE CONTAINERS
67-04 M17-66561
STRENGTH OF WELDED JOINTS IN STRUCTURES MADE OF HIGH-STRENGTH STEEL 67-04 M17-66567
HIGH-STRENGTH WELDABLE STRUCTURAL STEELS AND THEIR PROPERTIES 67-04 M17-66906
EFFECT OF CHEMICAL COMPOSITION AND TEMPERING ON THE MECHANICAL PROPERTIES OF QUENCHED STRUCTURAL STEELS 67-04 M17-66952
COMPRESSION TEST ON CONCRETE-FILLED STEEL-TUBE COLUMN--ESPECIALLY ON BEARING-TYPE STRUCTURAL STEEL-TUBE COLUMN 67-04 M17-67515
CREEP RUPTURE PROPERTIES OF LARGE WELDED SPECIMENS
67-04 M17-67587
STRUCTURE AND PROPERTIES OF CONSTRUCTIONAL STEEL MELTED BY VARIOUS METHODS 67-04 M17-67782
STRENGTH AND DUCTILITY OF ALLOYED STEELS AFTER LOW TEMPERATURE THERMOMECHANICAL TREATMENT
67-04 M17-67963
FATIGUE RESISTANCE OF LOW-ALLOYED STRUCTURAL STEELS 67-04 M17-67971
INFLUENCE OF ALLOYED ELEMENTS ON THE MECHANICAL PROPERTIES OF QUENCHED STEEL SUBJECTED TO COLD DEFORMATION
67-05 M17-68377
ON THE EVALUATION OF THE EFFECT OF ATMOSPHERIC CORROSION ON THE TENDENCY OF STEELS TO BRITTLE FRACTURE 67-05 M17-68743
INFLUENCE OF VACUUM POURING ON SOME PHYSICAL AND MECHANICAL PROPERTIES OF STRUCTURAL STEEL
67-05 M17-69009
EFFECT OF AUSFORMING ON THE PROPERTIES OF MACHINE STEEL 67-05 M17-69666
INFLUENCE OF AUSROLLING ON MECHANICAL PROPERTIES OF LOW-CARBON AND LOW-ALLOY STEELS
67-06 M17-70063
INFLUENCE OF DEFORMATION TEMPERATURE DURING AUSFORMING ON MECHANICAL PROPERTIES AND DUCTILE BRITTLE TRANSITION IN STRUCTURAL ALLOY STEEL
67-06 M17-70072
STRENGTH OF STRUCTURAL STEELS DURING LOW-CYCLE LOADING AND THE RELATION TO STRESS CONCENTRATION
67-06 M17-70932
ULTRASONIC LOSS MEASUREMENTS DURING ELASTIC-PLASTIC DEFORMATION AT THE YIELD POINT
67-06 M17-71174
STRESS ANALYSIS BY ULTRASONIC METHODS
67-06 M17-71175
EFFECT OF COLUMBIUM ON THE PROPERTIES OF WELDABLE PLAIN CARBON STRUCTURAL STEELS
67-06 M17-71437
BRITTLE FRACTURE BEHAVIOR OF QUENCHED AND TEMPERED STRUCTURAL STEELS 67-06 M17-71510
FRACTURE TOUGHNESS OF STRUCTURAL STEELS AS A FUNCTION OF THE RATE PARAMETER
67-06 M17-71636
FEATURES AND RESULTS OF SEVERAL PROGRAMS OF RADIATION-DAMAGE SURVEILLANCE OF POWER REACTOR PRESSURE VESSELS 67-06 M17-71640
CONTRIBUTION TO THE DIMENSIONING OF LOAD-BEARING STEEL STRUCTURES OF THE GENERAL STRUCTURAL STEEL GRADES ST. 38 AND ST. 52 AT ELEVATED TEMPERATURES
67-06 M17-77178
SOME RESULTS OF THE PRODUCTION AND APPLICATION OF HIGH-STRENGTH STRUCTURAL STEELS
67-07 M01-74272
COMPARISON OF DIFFERENT NOTCH IMPACT TEST SPECIMENS
67-07 M17-72418
PROPERTIES OF ALLOY STEELS PRODUCED IN A BASIC OXYGEN LD FURNACE. PT. 3. THE PRODUCTION OF ALLOY STEELS IN A BASIC OXYGEN FURNACE
67-07 M17-72551
CAPACITY OF HIGH TENSILE STRUCTURAL STEEL FOR RESISTING ALTERNATING LOADS 67-07 M17-72689
THE MECHANISM OF THE INFLUENCE OF RARE-EARTH METAL ADDITIONS ON THE PROPERTIES OF CONSTRUCTIONAL STEELS 67-07 M17-72974
MECHANICAL PROPERTIES OF STRUCTURAL STEELS PRODUCED FROM HIGH-PHOSPHORUS IRON IN THE BASIC OXYGEN FURNACE 67-07 M17-73012
THE PRODUCTION OF COLD TOUGH STRUCTURAL STEELS FOR USE AT -65C 67-07 M17-73223
COMPARISON OF TWO METHODS FOR TESTING THE SUSCEPTIBILITY TO AGING OF HEAVY PLATE ROLLED FROM GENERAL STRUCTURAL STEELS
67-07 M17-73288
STRUCTURAL STEEL DEVELOPMENTS IN JAPAN
67-07 M17-73293

NEW INFORMATION ON NEUTRON EMBRITTLEMENT AND EMBRITTLEMENT RELIEF OR REACTOR PRESSURE VESSEL STEELS 67-07 M17-73389
IN-DEPTH EMBRITTLEMENT OF A SIMULATED PRESSURE 67-07 M17-73390
EFFECTS OF IRRADIATION ON A302-B STEEL SUBJECTED TO A MULTIAXIAL STRESS DISTRIBUTION 67-07 M17-73392
IN-REACTOR STUDIES OF LOW-CYCLE FATIGUE PROPERTIES OF A NUCLEAR PRESSURE VESSEL STEEL 67-07 M17-73393
THE EFFECTIVENESS OF WELDED JOINTS IN METAL STRUCTURES MADE OF HIGH TENSILE STEEL 67-07 M17-73424
THE FATIGUE STRENGTH OF BUTT-WELDED JOINTS IN LOW-ALLOY STRUCTURAL STEELS 67-07 M17-73886
FISH EYE FORMATION IN UNALLOYED STRUCTURAL STEELS 67-08 M17-74447
GRAIN SIZE AND THE TRANSITION TEMPERATURE OF STRUCTURAL STEELS 67-08 M17-74940
THE FLOW BEHAVIOR OF THICK-WALLED HOLLOW BODIES UNDER INTERNAL PRESSURE 67-08 M17-75107
CRACKS IN THE BOTTOM PLATING AT THE STERN OF A SHIP 67-08 M17-75535
INVESTIGATION OF NIOBIUM CONTAINING STRUCTURAL STEEL 67-08 M17-75772
INVESTIGATION OF STEELS SUSCEPTIBLE TO SECONDARY HARDENING AND HARDENING BY THERMOMECHANICAL TREATMENT 67-08 M17-76027
DEVELOPMENT TRENDS IN HIGH STRENGTH, WELDABLE STRUCTURAL STEELS ALLOYED WITH NB, V, N, TI, ZR AND OTHER ELEMENTS 67-09 M04-77583
COCKENZIE--BRITTLE FRACTURE FAILURE 67-09 M17-76514
NEW METHOD FOR REPRESENTING NOTCH TOUGHNESS-TEMPERATURE CURVES 67-09 M17-77084
QUANTITATIVE EFFECT OF SECTION SIZE ON TRANSITION TEMPERATURE 67-09 M17-77951
STRENGTH OF THE BENT PROFILES OF LOW-CARBON STEEL 67-09 M17-78122
DEVELOPMENT OF HIGH-STRENGTH STRUCTURAL STEEL HAVING GOOD TOUGHNESS PROPERTIES 67-09 M17-78288
DESIGN CONSIDERATIONS IN MATERIAL SELECTION FOR ROCKET-MOTOR CASES 67-09 M20-78270
BIBLOGRAPHIC STUDY OF THE EFFECT OF RARE EARTH METAL ADDITIVES ON THE PROPERTIES OF STEEL 67-10 M17-78325
EFFECT OF THERMOMECHANICAL TREATMENT ON THE MECHANICAL PROPERTIES OF LOW-CARBON AND LOW-ALLOY STEELS 67-10 M17-78809
EFFECT OF THE TEMPERATURE OF DEFORMATION DURING THERMOMECHANICAL TREATMENT ON THE MECHANICAL PROPERTIES AND COLD BRITTLENESS THRESHOLD OF STRUCTURAL ALLOY STEEL 67-10 M17-78818
HOW STRUCTURAL STEELS ARE STRENGTHENED BY VANADIUM 67-10 M17-78955
EFFECT OF THE TYPE OF COLD WORKING ON THE ARTIFICIAL AGING IN NOTCH IMPACT TESTS ON CONVENTIONAL STRUCTURAL STEELS 67-10 M17-79100
ELEVATED TEMPERATURE PROPERTIES OF NICKEL ALLOY STEELS 67-10 M17-79442
HIGH-RESISTANCE STEELS. PT. 2. CONSTRUCTION STEELS OF VERY HIGH RESISTANCE 67-11 M01-80393
FURTHER DEVELOPMENT OF AN EXPONENTIAL RELATION FOR THE TENSILE WORK HARDENING OF STRUCTURAL ALLOYS 67-11 M17-80382
RELAXATION TESTS OF HIGH-TEMPERATURE STRUCTURAL STEELS AND CAST STEEL 67-11 M17-80511
EFFECT OF REFINING WITH LIQUID SYNTHETIC SLAG ON THE DUCTILE CHARACTERISTICS OF LOW-ALLOY STRUCTURAL STEELS 67-11 M17-80962
TEMPER BRITTLENESS OF CAST STEEL 67-11 M17-80963
WAYS OF INCREASING THE STRENGTH OF STRUCTURAL STEELS 67-11 M17-80980
ON WELCON-2 H CR STEEL WITH HYDROGEN ATTACK RESISTANCE 67-11 M20-81181
MECHANICAL PHENOMENA OF BRITTLE FRACTURE 67-12 M17-81914
EXAMINATION OF BRITTLE FRACTURE BEHAVIOR BY THE DROP-WEIGHT TEST 67-12 M17-81936
LOW CYCLE FATIGUE STRENGTH OF SHIP STRUCTURAL STEELS 67-12 M17-82923
A COLD RESISTANT STRUCTURAL STEEL 67-12 M17-83388

STRUCTURAL STEELS, MECHANICAL PROPERTIES
CONTRIBUTION TO THE STUDY OF THE INFLUENCE OF AS ON THE MECHANICAL PROPERTIES OF STEEL
THE MECHANICAL PROPERTIES OF STEEL 67-12 M17-83580
FUNDAMENTAL PROPERTIES OF HIGH STRENGTH STEELS 67-12 M20-82922

STRUCTURAL STEELS, METAL WORKING
HEAVY I-BEAMS TAKE CURVES EASILY 67-01 M07-58486
THE HOT WORKABILITY OF STEEL IN THE TEMPERATURE RANGE OF THE AC1 POINT 67-05 M17-69322
A FUNDAMENTAL EXPERIMENT IN THE DEFORMATION OF SHEET METAL ROUNDS BY UNDER-WATER CAPACITOR DISCHARGE 67-09 M08-77943

STRUCTURAL STEELS, MICROSTRUCTURE
THE INFLUENCE OF PRODUCTION TECHNOLOGY AND HYDROGEN AND NITROGEN CONTENT ON SPOTTY SEGREGATION IN ALUMINUM-ALLOYED STRUCTURAL STEELS 67-01 M04-57263
THE EFFECT OF CRYSTALLINE SEGREGATIONS ON THE DEFORMATION BEHAVIOR OF ALLOY STEELS 67-04 M14-67208
ON THE SOLUBILITY OF THE NITRIDES OF CHROMIUM, VANADIUM AND ALUMINUM IN AUSTENITE 67-04 M14-67391
INFLUENCE OF RARE EARTH METALS ON THE GRAIN SIZE AND THE FINE STRUCTURE OF A STRUCTURAL STEEL 67-12 M13-82157

STRUCTURAL STEELS, QUALITY CONTROL
PRODUCTION AND QUALITY OF BASIC OXYGEN ALLOY STEELS 67-07 M04-73096

STRUCTURAL STEELS, REFINING
IMPROVING THE QUALITY OF CONSTRUCTION STEELS WHEN BLOWING WITH ARGON IN THE LADLE 67-02 M04-62145
RESISTANCE TO HOT CRACKING OF STEEL REFINED BY MEANS OF SYNTHETIC SLAGS 67-04 M17-66215

STRUCTURAL STEELS, ROLLING
INFLUENCE OF METALLURGICAL FACTORS ON HOT STRIP MILL DESIGN 67-02 M07-60238
EFFECT OF ROLLING PLAN ON QUALITY OF HEAVY-GAGE STEEL AND MILL PRODUCTIVITY 67-02 M07-61947
EFFECT OF ROLLING SCHEDULE ON QUALITY OF THICK PLATE STEEL AND MILL OUTPUT 67-04 M07-67778
A MODERN WIDE-FLANGE BEAM MILL 67-07 M07-73331

STRUCTURAL STEELS, SERVICE TIME
A CONSUMER REPORT ON THE PERFORMANCE OF GALVANIZED STRUCTURAL STEEL 67-09 M12-77664

STRUCTURAL STEELS, STEEL MAKING
VACUUM DEGASSING OF STEEL AT TIMKEN STEEL AND TUBE DIV 67-02 M06-60234
EFFECT OF IMPROVED RAW MATERIALS ON OPEN HEARTH OPERATIONS 67-03 M04-65502
INFLUENCE OF PRELIMINARY DEOXIDATION ON QUALITY OF OPENHEARTH STEEL TREATED WITH ANYTHETIC SLAG IN A LADLE 67-05 M04-68546
EFFECT OF PRELIMINARY DEOXIDATION ON QUALITY OF OPEN-HEARTH STEEL TREATED WITH SYNTHETIC SLAG IN THE LADLE 67-07 M04-72457
THE REFINING OF HIGH-P PIG IRON BY THE OXYGEN CONVERTER PROCESS WITH CLASSIFIED, FINE-GRAINED STEELMAKING LIME 67-10 M04-78787

STRUCTURAL STEELS, STRUCTURAL MEMBERS
THE INTERCONNECTION BETWEEN TYPES OF SECTION AND STEEL STRENGTH 67-07 M17-73423

STRUCTURAL STEELS, THERMAL PROPERTIES
THE DETERMINATION OF TEMPERATURE DISTRIBUTION DURING FLAME CUTTING 67-02 M19-60510

STRUCTURAL STEELS, TUBEMAKING
MAKING STEEL PIPE BY STRETCH REDUCTION 67-03 M08-65984

STRUCTURAL STEELS, WELDING
STATE AND DEVELOPMENT OF WELDING MATERIAL MANUFACTURE 67-01 M11-57145
THE NARROW-GAP MIG WELDING PROCESS FOR THICK STEEL PLATES 67-01 M11-58699
RAILROAD OVERPASS DEPENDS ON HIGH-STRENGTH STEEL 67-01 M11-58757
CERTAIN SPECIAL FEATURES OF THE WELDING OF MILD AND LOW-ALLOY STRUCTURAL STEELS AT LOW TEMPERATURES 67-02 M11-59791
PRESENT AND FUTURE IRON AND STEEL INDUSTRY OF JAPAN 67-02 M11-59961
CO2 ARC WELDING OF SHIP HULLS 67-02 M11-60130
SPECIAL FEATURES INVOLVED IN WELDING STEEL STRUCTURES AT LOW TEMPERATURES 67-02 M11-60200
PROCEDURES FOR WELDING CONSTRUCTIONAL STEELS 67-02 M11-61653

STRUCTURAL STEELS
EFFECTS DURING CONSTRUCTION OF THE WELDING RESIDUAL STRESSES ON THE COMPRESSION OF THE CONCRETE AT JOINTS IN PRECAST COLUMNS 67-02 M17-60188
RECLAIMING PIECES BY DOUBLE-ELECTRODE BUILD-UP USING POWDER WIRE IN CO2 67-03 M11-65057
RELATIONSHIP OF MECHANICAL PROPERTIES OF WELD AFFECTED ZONE OF CONSTRUCTION STEELS TO WELDING THERMAL CYCLE 67-03 M17-65046
ACCEPTANCE TESTING OF LOW-CARBON AND LOW-ALLOY STRUCTURAL STEELS FOR WELDABILITY 67-04 M11-66436
STEEL WELDING UNDER CARBON DIOXIDE AND OTHER INERT GASES 67-04 M11-66671
ESTABLISHMENT OF ARC WELDING PROCEDURE OF STRUCTURAL STEELS 67-04 M11-67586
CO2 WELDING OF SHIPS HULL STRUCTURES 67-04 M11-67670
REPAIRABLE PROPERTIES OF STRUCTURALLY HARDENED STEEL 67-05 M12-69121
PLATES OF AUSTRIAN SPECIAL STEELS FOR WELDED CONSTRUCTION 67-06 M11-70459
COMPOSITE CONSTRUCTION CALLS FOR CONNECTORS 67-06 M11-71495
WELDABILITY TESTS FOR MILD AND LOW ALLOY STRUCTURAL STEELS 67-07 M11-72695
SUBMERGED ARC WELDING OF LOW-TEMPERATURE HIGH-STRENGTH STRUCTURAL STEELS, TAKING INTO PARTICULAR CONSIDERATION WELDING WITH PASS AND BACKING PASS 67-07 M11-73713
BUILDING UP BY TWO-ELECTRODE CO2 SHIELDED HARDFACING WITH POWDER FILLED WIRE 67-07 M11-73979
RELATIONSHIP OF THE MECHANICAL PROPERTIES OF THE HEAT AFFECTED ZONE IN STRUCTURAL STEELS TO THE THERMAL WELDING CYCLE 67-07 M17-73966
A MULTIBLE TEST APPROACH TO THE PREDICTION OF WELDMENT CRACKING 67-08 M11-76070
EFFECTS OF COMPOSITION ON THE HEAT-AFFECTED-ZONE TOUGHNESS OF S
TOUGHNESS OF CONSTRUCTIONAL ALLOY STEELS 67-08 M11-76071
SHIELDED ARC WELDING WITH CO2, USING VERY THIN TUBULAR WIRES 67-08 M11-76151
12G2SMF AND 12KHG2SMF CONSTRUCTION STEEL FOR WELDED STRUCTURES 67-08 M11-76283
DEVELOPMENT OF PROCEDURES FOR WELDING HY-130 --T-- STEEL 67-09 M11-78147
WHAT ENGINEERS SHOULD KNOW IN DESIGNING WELDED STRUCTURES 67-10 M11-78631
NEW WELDING METALLURGY RESEARCH IN THE INSTITUTE FOR WELDING TECHNOLOGY 67-10 M11-78713
WELDING IN U.K. SHIP CONSTRUCTION 67-10 M11-78798
SPHERICAL CONTAINERS FOR THE STORAGE OF LIQUEFIED GAS 67-10 M11-79056
GRADES 12G2SMF AND 12KHG2SMF STRUCTURAL STEELS FOR WELDED STRUCTURES 67-10 M11-79276
HARD SURFACING TECHNIQUES IN MECHANICAL CONSTRUCTION 67-12 M11-83505
STRUCTURAL STEELS, X RAY ANALYSIS
X-RAY METHOD FOR RESIDUAL STRESS MEASUREMENTS 67-08 M17-75518
STRUCTURE /ATOMIC/
SEE ATOMIC STRUCTURE
STRUCTURE /EQUIAXED/
SEE EQUIAXED STRUCTURE
STRUCTURE /MOLECULAR/
SEE MOLECULAR STRUCTURE
STRUCTURES /ARTIFACTS/
NEW STEELS AND THEIR APPLICATIONS 67-06 M20-72010
STRUCTURES /CRYSTALLINE/
SEE ALSO ACICULAR STRUCTURE
BANDED STRUCTURE
COLUMNAR STRUCTURE
CRYSTAL STRUCTURE
DENDRITIC STRUCTURE
ELONGATED STRUCTURE
EQUIAXED STRUCTURE
FLAKE GRAPHITIC STRUCTURE
GRAIN STRUCTURE
GRAPHITIC STRUCTURE
HETEROGENEOUS STRUCTURE
HOMOGENEOUS STRUCTURE
HYPEREUTECTIC STRUCTURES
HYPEREUTECTOID STRUCTURES
HYPOEUTECTIC STRUCTURES
INTERDENDRITIC STRUCTURE
INTERGRANULAR STRUCTURE
LAMELLAR STRUCTURE
MACROSTRUCTURE
MICROSTRUCTURE
NODULAR GRAPHITIC STRUCTURE
SPHEROIDAL STRUCTURE
UNIT CELL
WIDMANSTATTEN STRUCTURE
METHODS FOR INTERPRETING ELECTRON DIFFRACTION PATTERNS OF THIN ALLOY FILMS 67-05 M13-68439
ON THE AL82 TYPE PHASES 67-06 M13-71860
INVESTIGATION BY MEANS OF THE ELECTRON MICROSCOPE OF PRECIPITATION IN AL-CU SOLID SOLUTIONS. PT. 3. THE DIAGRAM FOR THE FORMATION OF NUCLEI IN AL-CU ALLOYS 67-06 M14-71835
ON THE HEXAGONAL CRYSTAL STRUCTURE OF IRON ALLOYS WITH TRANSITION METALS 67-06 M14-71867
CRYSTALLINE STRUCTURES OF COMPOUNDS ZR2NI21B6 AND ZR2CO21B6 67-07 M13-73481
CRYSTALLINE STRUCTURES OF CERTAIN COMPOUNDS OF RARE-EARTH METALS WITH CADMIUM 67-07 M13-73482
STUD WELDING
TWO-IN-ONE STUD WELDER SAVES RESETTING 67-01 M11-58552
DRAWN-ARC CAPACITOR DISCHARGE--A MAJOR NEW PRODUCTION TOOL 67-02 M11-61578
WELDING DESIGN AND PROCESS MANUAL--ALUMINUM 67-04 M11-67492
COMPOSITE CONSTRUCTION CALLS FOR CONNECTORS 67-06 M11-71495
STATE OF DEVELOPMENT IN THE FIELD OF STUD WELDING 67-06 M11-72065
GAS-SHIELDED STUD WELDING OF MAGNESIUM 67-07 M11-74282
SHORT CYCLE PROJECTION STUD WELDING 67-12 M11-82817
STUDS, BONDING
ADHESIVES TAKE BIG STEP AHEAD AS PARTNERS OF FASTENERS 67-05 M11-68810
STUDS, WELDING
WELD FASTENERS PUSH INTO LIMELIGHT 67-03 M11-65764
SUBHALIDE DISTILLATION
RECOVERY OF ALUMINUM IS TRICKY STEP. PT. 2 67-06 M03-71315
SUBFLUORIDE DISTILLATION PROVIDES 99.999-99.9999 PER CENT PURE ALUMINUM 67-09 M03-76881
SEPARATION OF AL FROM TI-AL ALLOYS BY A THERMAL METHOD 67-11 M03-81176
REFINING OF ALUMINUM USING TRANSFER REACTIONS 67-11 M03-81434
SUBLIMATION
EFFECT OF SLAG COMPOSITION ON RATE OF REDUCTION AND SUBLIMATION OF ZINC 67-02 M03-62229
EVAPORATION AND FORMATION OF PORES IN ALUMINUM ALLOYS AND CU-ZN ALLOYS 67-02 M15-59763
CONTRIBUTION TO THE STUDY OF THE PURIFICATION OF BERYLLIUM BY SUBLIMATION AND DISTILLATION 67-03 M03-65241
EVAPORATION COEFFICIENT OF BORON 67-04 M15-67786
DECARBURIZATION AND SINTERING OF BRIQUETS IN VACUUM-THERMAL PRODUCTION OF CARBON-FREE FERROCHROMIUM 67-05 M04-69686
PHASE EQUILIBRIA IN THE CO-SE SYSTEM 67-06 M14-72174
DECARBURIZATION AND SINTERING BRIQUETTES IN THE VACUUM THERMAL PRODUCTION OF CARBON-FREE FERROCHROMIUM 67-07 M04-74072
GROWTH OF ZNO SINGLE CRYSTALS 67-07 M14-72649
A NEW TECHNIQUE FOR PRODUCING EPITAXIAL SILICON LAYERS USING ULTRATHIN ALLOY ZONES
INTERNATIONAL VACUUM CONGRESS, V 2, PT 2, 1967, PERGAMON PRESS, 44-01 21ST STREET, LONG ISLAND CITY, NEW YORK 11101. P 295-299 67-08 M14-75155
BULK SUBLIMATION OF TITANIUM 67-08 M14-75180
MASS SPECTROMETRIC STUDIES AT HIGH TEMPERATURES. PT. 17. SUBLIMATION AND VAPOR PRESSURES OF DY --III--, HO --III-- AND ER --III-- FLUORIDES 67-08 M14-75294
PROPERTIES OF TITANIUM-MOLYBDENUM ALLOY WIRE AS A SOURCE OF TITANIUM FOR SUBLIMATION PUMPS 67-08 M15-74785
DETERMINATION OF OXYGEN IN CHROMIUM STEELS BY CHLORINATION AND VACUUM SUBLIMATION 67-10 M19-79774
POSSIBILITIES OF THE PRODUCTION OF OXYGEN-POOR, FOREIGN METAL-POOR VANADIUM CHLORIDE

67-12 M03-82141
CHARACTERISTICS OF METAL SUBLIMATION IN THE PRESENCE OF AN OXIDIZED SURFACE LAYER
67-12 M14-82170

SUBLIMATION PRESSURE
VARIATION OF TEMPERATURE DURING THE FIRST STAGE OF AN ELECTRIC EXPLOSION OF WIRES
67-10 M15-79254
MASS SPECTROMETRIC STUDIES AT HIGH TEMPERATURES. PT. 16. SUBLIMATION PRESSURES FOR TIF3 AND THE STABILITIES OF TIF2 --G-- AND TIF --G--
67-11 M15-80699

SUBMARINE CABLES, CORROSION
ON THE PLASTISOL-COATED STEEL WIRE FOR THE ARMOR OF SUBMARINE CABLE 67-06 M18-70582

SUBMARINES
STRUCTURES AND MATERIALS FOR DEEP SUBMERSIBLES
67-09 M20-77713
HIGH STRENGTH STEELS IN DEEP SUBMERSIBLES
67-12 M20-82987

SUBMARINES, MATERIALS
STRUCTURES AND MATERIALS FOR DEEP SUBMERSIBLES
67-09 M20-78113

SUBMARINES, NONDESTRUCTIVE TESTING
RADIOGRAPHY IN SHIPBUILDING. PT. 1
67-12 M19-83116

SUBMARINES, WELDING
WELDING OF ALPHA-BETA TITANIUM ALLOYS IN ONE INCH PLATE 67-08 M11-76069
NDT--THE KEY TO SUBMARINE WELD INTEGRITY
67-09 M19-77912

SUBMERGED ARC ELECTRIC FURNACES
EMISSION SAMPLING FOR ELECTRIC FURNACE FUME CONTROL
67-06 M19-71391
INDUSTRIAL SILICON AND FERROSILICON
67-12 M02-83164

SUBMERGED ARC WELDING
AUTOMATIC WELDING OF KH5M-U STEEL PIPES
67-01 M11-57531
CHARACTERISTICS OF CO2 AUTOMATIC WELDING WITH SPLIT ELECTRODE 67-01 M11-57532
WELDABILITY OF 10KHSND CONVERTER STEEL
67-01 M11-57534
AUTOMATIC SUBMERGED ARC WELDING OF 06N3 COLD-RESISTANT STEEL 67-01 M11-58203
PHASE TRANSFORMATION IN WELDED JOINTS OF VT15 ALLOY
67-01 M11-58204
AUTOMATIC SUBMERGED ARC WELDING OF COPPER TO STEEL OF LARGE THICKNESSES 67-01 M11-58216
HEAT PROPAGATION DURING FUSION WELDING OF ALUMINUM TO COPPER 67-01 M11-58269
SUBMERGED ARC WELDING OF KH25 N20S2 HEAT-RESISTANT AUSTENITIC STEEL AND KH18N35S3 ALLOY
67-01 M11-58276
A FLUX CUSHION FOR AUTOMATIC WELDING OF CONNECTING PIPES FOR VESSELS 67-01 M11-58279
WELDING OT4-2 TITANIUM ALLOY 67-01 M11-58282
NEW ADDITION MATERIALS FOR SUBMERGED ARC WELDING
67-01 M11-58620
PRESTRESSES IN MULTILAYER SHELLS DURING ARC WELDING
67-02 M11-59524
EXAMPLES OF AUTOMATION IN FUSION ARC WELDING
67-02 M11-59755
A DEVICE FOR EXTERNAL AUTOMATIC SUBMERGED ARC WELDING OF LONGITUDINAL AND CIRCUMFERENTIAL SEAMS
67-02 M11-60134
WELDING OF LOW TEMPERATURE STEEL. PT. 2. SUBMERGED-ARC WELDING OF YND33 STEEL 67-02 M11-60169
LENGTHENING THE SERVICE LIFE OF CRANE WHEELS
67-02 M11-60198
STAINLESS STEEL WELDS 67-02 M11-60590
STATIC AND DYNAMIC CHARACTERISTICS OF THE ARC IN DEEP FUSION WELDING 67-02 M11-60831
WELDING TECHNOLOGY IN SHIP CONSTRUCTION. PT. 2. ONE -SIDE BUTT WELDING--EQUIPMENT, TOOLS AND TECHNOLOGY 67-02 M11-60983
WHERE DO WE STAND IN WELDING HIGH STRENGTH STEELS
67-02 M11-61098
AUTOMATIC WELDING OF TUBES MADE OF KH5M-U STEEL
67-02 M11-61150
CHARACTERISTICS OF AUTOMATIC TWIN ARC CO2 WELDING
67-02 M11-61151
WELDABILITY OF 10KHSND CONVERTER STEEL
67-02 M11-61153
FIXTURING INGENUITY, KEY TO FULLY AUTOMATIC WELDING
67-02 M11-61646
SOME CAUSES FOR DECREASE IN PLASTICITY OF VT15 TI ALLOY WELDED JOINTS AFTER QUENCHING
67-02 M11-62162
STUDY OF DEFORMATION OF CROSS JOINTS IN HEAVY-GAGE COILED STRUCTURES 67-02 M11-62167
FINNING OF TUBES AND FINNED TUBES IN THE PRODUCTION OF STEAM BOILERS WITHOUT WALL CLADDING
67-02 M11-62196
WELDING AN EXPERIMENTAL VACUUM APPARATUS MADE OF AT3 TITANIUM ALLOY 67-03 M11-65061
AUTOMATIC WELDING OF THICK SECTIONS
67-03 M11-65063
SPOTLIGHT ON ARC WELDING, PT. 29. THE BROOK WELDING CO. LTD 67-03 M11-65168
SUBMERGED ARC WELDING WITH STRIP ELECTRODES
67-03 M11-65190
STAINLESS LININGS BY AUTOMATIC WELDING IN NUCLEAR CONSTRUCTIONS 67-03 M11-65447
THE SS WELDING PROCESS --IMPROVED SUBMERGED ARC WELDING-- 67-03 M11-65819
METHOD OF SUBMERGED MULTILAYER WELDING
67-04 M11-66103
PRE-STRESSING IN MULTILAYER DRUMS DURING ARC WELDING 67-04 M11-66473
A NON-HYGROSCOPIC FLUX FOR WELDING TITANIUM AND ITS ALLOYS 67-04 M11-66528
MECHANIZED WELDING OF FLANGES IN THE CONSTRUCTION OF RADIO TOWERS 67-04 M11-66875
CAUSES OF REDUCTION IN DUCTILITY OF WELDED JOINTS IN VT15 ALLOY AFTER QUENCHING
67-04 M11-67169
THE DEFORMATION OF TRANSVERSE BUTT JOINTS IN STRUCTURES MADE FROM COILED PLATE METAL
67-04 M11-67176
HEAT PROPAGATION DURING THE FUSION WELDING OF ALUMINIUM TO COPPER 67-04 M11-67350
THE SUBMERGED ARC WELDING OF KH25N20S2 STEEL AND KH18N35S3 ALLOY 67-04 M11-67357
FLUX CUSHION FOR THE AUTOMATIC WELDING OF BRANCH PIPES TO VESSELS 67-04 M11-67360
WELDING OT4-2 TITANIUM ALLOY 67-04 M11-67363
AN APPARATUS FOR THE AUTOMATIC SUBMERGED ARC WELDING FROM OUTSIDE 67-04 M11-67674
EFFECT OF EDGE PREPARATION ON THE AMOUNT OF PARENT METAL IN THE WELD METAL 67-04 M11-67811
PREPARING THE METAL SURFACE FOR SEMIAUTOMATIC SUBMERGED ARC WELDING OF FILLET WELDS
67-04 M11-67812
STATIC AND DYNAMIC CHARACTERISTICS OF THE DEEP PENETRATION ARC 67-04 M11-67988
WELDING HIGH-ALLOYED STAINLESS STEELS UNDER CERAMIC FLUX 67-05 M11-69407
THE RECLAMATION OF WORN WHEELS BY AUTOMATIC SUBMERGED-ARC WELDING 67-05 M12-69428
BULK WELDING IN 1966 67-06 M11-70134
FLUX FOR WELDING LIGHT METALS AND THEIR ALLOYS
67-06 M11-70151
CERAMIC FLUX FOR WELDING ALUMINUM
67-06 M11-70152
FLUX FOR WELDING LIGHT ALLOYS FOR INSTANCE, TITANIUM AND ITS ALLOYS 67-06 M11-70153
ELECTRODE FOR WELDING COPPER 67-06 M11-70205
EFFECT OF EDGE PREPARATION ON THE PROPORTION OF PARENT METAL IN THE WELD METAL
67-06 M11-70311
SURFACE PREPARATION OF METAL FOR THE SEMI-AUTOMATIC SUBMERGED ARC WELDING OF CORNER JOINTS
67-06 M11-70312
GAS-TIGHT TUBEWALLS AS STRUCTURAL ELEMENTS OF PRESSURE VESSELS 67-06 M11-70460
GAS-TIGHT TUBE WALLS AS STRUCTURAL ELEMENTS IN PRESSURE VESSEL CONSTRUCTION. PT. 1
67-06 M11-70712
THE PREPARATION OF WELD EDGES BY MEANS OF IMPACT CUTTERS AND WELD EDGE MOLDERS
67-06 M11-71220
WELDED EXPANDED TUBES OF LARGE DIAMETER MADE OF STEEL BIMETAL 67-06 M11-71259
SUBMERGED-ARC KEEPS IN STEP WITH QUALITY, MECHANIZATION 67-06 M11-71571
FOR THAT FINAL SUBMERGED ARC ECONOMY--RECOVER THE FLUX 67-06 M11-71572
MATERIAL PROPERTIES OF STAINLESS STEEL WELDS DEPOSITED BY THE SUBMERGED ARC WELDING TECHNIQUE
67-06 M11-71575
GRANULAR METAL FILLER METALS FOR ARC WELDING
67-06 M11-71680
SUBMERGED-ARC WELDING OF ARMY ARMOR
67-06 M11-71683
RECLAMATION OF STEEL MILL ROLLS
67-06 M11-71826
INFLUENCE OF THE INITIAL TEMPERATURE OF BASE METAL

ON PROPERTIES OF WELDED JOINTS
67-06 M11-71842
INFLUENCE OF THE WELDING RATE ON SELF-ADJUSTMENT OF ARC DURING SUBMERGED ARC WELDING OF ALUMINUM
67-06 M11-71844
USE OF EP-389 WIRE FOR AUTOMATIC WELDING OF CLAD STEELS USED FOR CHEMICAL AND OIL REFINING APPARATUS
67-06 M11-71851
CHARACTERISTICS OF AUTOMATIC ARC WELDING OF ALUMINUM TO COPPER WITH APPLICATION OF FLUXES
67-06 M11-71852
AUTOMATIC WELDING WITH ADDITION OF IRON PELLETS
67-06 M11-71853
SPECIFIC HEAT ENERGY OF ARC IN SOME WELDING PROCESSES WITH CONSUMABLE ELECTRODES
67-07 M11-72732
AUTOMATIC WELDING OF ST. 3 PLUS OKH23N28M3D3T BILAYER STEEL
67-07 M11-72873
THE FABRICATION OF REACTOR PRESSURE VESSELS AND REACTOR COMPONENTS WITH SPECIAL REGARD TO WELDING
67-07 M11-73466
SOME OBSERVATIONS ON THE WELDING OF MIXED FABRICATIONS
67-07 M11-73612
WELDING METHODS TO PRODUCE TUBES AND SHAPES. PT. 1
67-07 M11-73710
SUBMERGED ARC WELDING OF LOW-TEMPERATURE HIGH-STRENGTH STRUCTURAL STEELS, TAKING INTO PARTICULAR CONSIDERATION WELDING WITH PASS AND BACKING PASS
67-07 M11-73713
WELDING AN EXPERIMENTAL VACUUM APPARATUS IN AT3 TITANIUM ALLOY
67-07 M11-73981
THE SUBMERGED ARC WELDING OF BUILT-UP FACINGS WITH FLAT STRIP ELECTRODE MATERIAL
67-07 M12-72419
CRACK RESISTANCE OF COPPER WELDS CONTAINING BI AND PB IMPURITIES
67-08 M11-74370
SUBMERGED ARC WELDING OF STAINLESS STEELS
67-08 M11-75359
EXPANDED LARGE DIAMETER WELDED PIPES OF TWO-LAYER STEEL
67-08 M11-75728
DEPOSIT WELDING ON STEEL ROLLS
67-08 M11-76289
THE WELDING OF FINE-GRAINED STEELS
67-09 M11-76808
PROBLEM OF MECHANIZED WELDING OF DRILL PIPES MADE OF D BRAND STEEL
67-09 M11-76845
CHARACTERISTIC OF THE POWER SOURCE IN AUTOMATIC WELDING OF ALUMINIUM THROUGH FLUX
67-09 M11-77235
WELDABILITY OF TYPE KH14G14N3T CHROMIUM-NICKEL-MANGANESE STEELS
67-09 M11-77606
AUTOMATIC SUBMERGED ARC WELDING OF ARMCO IRON
67-09 M11-77616
WHATS SO TOUGH ABOUT CRYOGENIC COLD
67-09 M11-77915
FLUX SUPPORTED SUBMERGED-ARC WELDING OF TUBULAR PANELS
67-09 M11-77947
MECHANIZED WELDING OF THICK-WALLED VESSELS OF CLAD STEELS
67-09 M11-77958
INFLUENCE OF THE INITIAL TEMPERATURE OF BASE METAL ON THE PROPERTIES OF WELDED JOINT
67-09 M11-78114
WELDABILITY OF QUENCHED AND TEMPERED 10G2S1D MN-SI STEEL
67-09 M11-78115
DISSOLUTION KINETICS OF STEEL IN COPPER AND OF COPPER IN ALUMINUM UNDER WELDING CONDITIONS
67-09 M11-78116
A DEVICE FOR AUTOMATIC MEASUREMENT OF THE LENGTH OF LARGE-DIAMETER TUBE BILLETS
67-09 M11-78128
THE SUBMERGED ARC WELDING OF HIGH ALLOY STAINLESS STEELS WITH CERAMIC FLUXES
67-10 M11-78511
PRODUCTION AND TESTING OF 1000 KG CHEMICAL CONTAINERS
67-10 M11-78613
WHAT ENGINEERS SHOULD KNOW IN DESIGNING WELDED STRUCTURES
67-10 M11-78631
THE WELDING OF HEAVY MACHINERY AND APPARATUS
67-10 M11-78644
NEW WELDING METALLURGY RESEARCH IN THE INSTITUTE FOR WELDING TECHNOLOGY
67-10 M11-78713
WELDING IN THE MANUFACTURE OF ROLLING STOCK ON BRITISH RAILWAYS
67-10 M11-78795
THE PRODUCTION OF WELDED PARTS FOR MACHINE CONSTRUCTION
67-10 M11-79489
FACTORS INFLUENCING THE QUALITY OF WELDS OBTAINED BY SUBMERGED MELT --FLUX-- WELDING
67-10 M11-79796
ONE-SIDE WELDING IS ON ITS WAY
67-10 M11-80095
NEW LINE PORCELAIN ENAMELS WATER HEATERS
67-10 M20-79198
ISRAELI FABRICATING FIRM MAKES STEEL PIPE FOR MAJOR WATER-SUPPLY PROJECT
67-11 M07-80719
WELDING THICK-WALLED STAINLESS STEEL CHEMICAL APPARATUS
67-11 M11-80545
THE TECHNOLOGICAL EFFECTIVENESS AND VIBRATION STRENGTH OF WELDED JOINTS IN A DIESEL LOCOMOTIVE BLOCK
67-11 M11-80649
EFFECTS OF THE INITIAL TEMPERATURE OF THE PARENT METAL ON THE PROPERTIES OF WELDED JOINTS
67-11 M11-80874
EFFECTS OF THE WELDING RATE ON ARC SELF-REGULATION DURING THE AUTOMATIC SUBMERGED ARC WELDING OF ALUMINIUM
67-11 M11-80876
THE AUTOMATIC WELDING OF CLAD STEELS USING EP-389 ELECTRODE WIRE
67-11 M11-80883
THE AUTOMATIC SUBMERGED ARC WELDING OF ALUMINIUM TO COPPER
67-11 M11-80884
AUTOMATIC WELDING WITH IRON PELLETS ADDED
67-11 M11-80885
LARGE TURBINE ROTORS FABRICATED BY WELDING
67-12 M11-81821
CRACK RESISTANCE OF COPPER WELDS CONTAINING BI AND PB
67-12 M11-82243
EFFECTIVE HEAT INPUT WHEN WELDING WITH A CONSUMABLE ELECTRODE
67-12 M11-82311
WELD METAL OF THE JOINTS OF DIFFERENT STEELS FOR TEMPERATURES OVER 550 C
67-12 M11-82633
FATIGUE STRENGTH OF A WELDABLE HIGH STRENGTH MARTENSITIC STAINLESS STEEL
67-12 M11-82820
AUTOMATIC SUBMERGED ARC WELDING OF T-CONNECTIONS OF FOUNDATION ELEMENTS
67-12 M11-83191

SUBMERGED ARC WELDING, SPECIFICATIONS
PROPOSAL FOR A CLASSIFICATION OF WELDING WIRES AND FLUXES FOR SUBMERGED ARC WELDING
67-02 M11-59759

SUBMERGED ARC WELDING, TEMPERATURE EFFECTS
EFFECT OF INITIAL TEMPERATURE OF BASE METAL ON WELD JOINT PROPERTIES
67-01 M11-57388

SUBMERGED MELT WELDS
SEE SUBMERGED ARC WELDING
WELDED JOINTS

SUBSTITUTIONAL SOLID SOLUTIONS
THE INFLUENCE OF VANADIUM ON THE ACTIVITY OF CARBON IN THE FE-C-V SYSTEM AT 1000 C., CORRELATION OF THE INFLUENCE OF SUBSTITUTIONAL SOLUTES ON THE ACTIVITY COEFFICIENT OF CARBON IN IRON-BASE SYSTEMS
67-01 M14-57417
SUBSTITUTIONAL SOLUTION HARDENING OF COPPER
67-04 M14-66073
SOLID SOLUTION OF BORON IN GRAPHITE
67-07 M14-72827
REMARK ON THE THEORY OF THE ESR SPECTRUM OF THE D1-CONFIGURATION IN RUTILE --TIO2--
67-08 M16-75244
X-RAY STUDIES IN THE SYSTEM THNI5-XALX
67-10 M13-78670

SUBSTITUTIONAL SOLID SOLUTIONS, CRYSTAL LATTICES
LATTICE VIBRATIONS AND LOCAL ORDER IN SUBSTITUTIONAL SOLID SOLUTIONS. PT. 1
67-09 M16-76736

SUBSTITUTIONAL SOLID SOLUTIONS, DIFFUSION
DIFFUSION CALCULATIONS IN THREE-COMPONENT SOLID SOLUTIONS
67-01 M14-58468
RADIATION-ENHANCED DIFFUSION IN METALS
67-04 M14-67315

SUBSTITUTIONAL SOLID SOLUTIONS, FERMI SURFACE
POSITRON ANNIHILATION IN COPPER-ALUMINIUM ALLOY
67-04 M16-67483

SUBSTITUTIONAL SOLID SOLUTIONS, HARDENING
SOLUTION HARDENING IN NIOBIUM
67-03 M14-65221

SUBSTITUTIONAL SOLID SOLUTIONS, HEAT TREATMENT
COHERENT PRECIPITATION IN SUBSTITUTIONAL SOLID SOLUTIONS OF ALPHA IRON
67-01 M14-57926

SUBSTITUTIONAL SOLID SOLUTIONS, MAGNETIC PROPERTIES
ARSENIDES OF THE TRANSITION METALS. PT. 8. SOME BINARY AND TERNARY GROUP 8 DIARSENIDES AND THEIR MAGNETIC AND ELECTRICAL PROPERTIES
67-03 M15-65945
ISOTHERMAL MAGNETIC-ANNEALING EXPERIMENTS ON SUBSTITUTIONAL ALLOYS
67-07 M15-73508

SUBSTITUTIONAL SOLID SOLUTIONS, MECHANICAL PROPERTIES
STRUCTURE AND HIGH-STRENGTH METALS
67-03 M17-65329
THE STRENGTH OF CU-AU SOLID SOLUTIONS WITH DIFFERENT CONCENTRATION DISTRIBUTIONS
67-07 M17-72518

SUBSTITUTIONAL SOLID SOLUTIONS, THERMODYNAMICS
THERMODYNAMIC PROPERTIES OF SOLID SOLUTION ALLOYS OF IRON AND CARBON WITH MANGANESE, SILICON,

CHROMIUM OR NICKEL 67-02 M15-61734

SUBSTRATES
DIFFUSENESS OF FERROELECTRIC PHASE TRANSITIONS IN SOLID SOLUTIONS OF THE --BAPBCA-- TIO3 SYSTEM 67-05 M16-69392
PRETREATMENT OF SUBSTRATE AND ANOMALY OF ELECTRODEPOSITION OF IRON-NICKEL ALLOY AT THE EARLY STAGE OF DEPOSITION 67-07 M12-72603

SUBSTRATES, CLEANING
ADHESION OF SPUTTERED GOLD FILMS ON GLASS 67-12 M12-83548

SUBSTRUCTURES
HIGH-ANGLE SUBSTRUCTURE IN ELECTRON BEAM ZONE-MELTED TUNGSTEN 67-11 M14-81356
STUDIES ON THE SUBSTRUCTURE DEVELOPED AROUND FATIGUE CRACKS 67-11 M17-81065

SUBSTRUCTURES, ALLOYING EFFECTS
EFFECT OF CADMIUM ALLOY CONCENTRATION ON THE SUBSTRUCTURE AND DISLOCATION DENSITY IN ZINC SINGLE CRYSTALS 67-12 M13-82339

SULFATES
SEE ALSO SULFURIC ACID

SULFATES, CORROSION
THERMOGRAVIMETRIC INVESTIGATIONS OF SUBSTANCES CONTAINING SULFATE WITH HIGH-TEMPERATURE CORROSION ON THE FIRE SIDE OF COAL-FIRED BOILERS 67-02 M18-62009

SULFATES, CORROSION ENVIRONMENTS
PITTING CORROSION OF 13CR-FE ALLOY IN NA2SO4 SOLUTIONS CONTAINING CHLORIDE IONS 67-05 M18-69837

SULFATING
SEE SULFATION

SULFATION
STUDY OF THE REACTION OF LEAD SULFIDE AND SULFURIC ACID 67-02 M02-58859
REACTION OF CUPROUS SULFIDE AND SULFURIC ACID 67-02 M02-58879
STUDY OF THE REACTION OF ZINC SULFIDE WITH SULFURIC ACID 67-02 M02-59845
RECOVERING NON-FERROUS AND RARE METALS FROM LEAD CAKES, USING THE SULFATIZATION METHOD 67-04 M03-67522
POSSIBILITY OF PROCESSING CRUDE POLYMETALS BY THE SULFURIC ACID PROCESS 67-05 M02-69301
REACTION RATE OF SULFUR WITH LEAD 67-05 M14-69476
ON THE EFFECT OF THE COMPOSITION OF GAS PHASE ON THE PROCESS OF SULFATIZING ROASTING OF SULFIDE-COBALT CONCENTRATE 67-06 M02-72107
ROASTING IN EXTRACTIVE METALLURGY--A THERMODYNAMIC AND KINETIC REVIEW 67-10 M02-79946
INVESTIGATION OF THE FLUIDIZED BED SULFATING ROASTING OF PYRITE-COBALT CONCENTRATES 67-12 M02-83019

SULFATIZING
SEE SULFATION

SULFIDES
SEE ALSO HYDROGEN SULFIDE
STUDY OF SULFIDES IN STEELS. INFLUENCE OF VARIOUS ADDITION ELEMENTS ON THEIR COMPOSITION 67-12 M13-83339

SULFIDES, BAND THEORY
ENERGY BAND STRUCTURE OF CDS USING SELF-CONSISTENT OPW AND PSEUDOPOTENTIAL METHODS 67-04 M16-66740
BAND STRUCTURE OF THE SEMICONDUCTING LAYER COMPOUNDS 67-04 M16-66742
BAND STRUCTURE OF CUBIC ZNS --KORRINGA-KOHN-ROSTOKER METHOD-- 67-06 M16-72096
SPIN-POLARIZED ELECTRONIC ENERGY-BAND STRUCTURE IN EUS 67-09 M16-77173

SULFIDES, BENEFICIATION
OXIDE MOLYBDENUM RECOVERY AT CLIMAX 67-05 M02-68771

SULFIDES, BINARY SYSTEMS
MISCIBILITY OF METALS WITH SALTS. PT. 7. THE POTASSIUM-POTASSIUM SULFIDE SYSTEM 67-05 M13-69031
THE SYSTEM MNSE-MNS 67-07 M14-72830

SULFIDES, CHEMICAL ANALYSIS
THE DETERMINATION OF PB, ZN, CU, AS AND S IN SULFIDE ORES BY X-RAY SPECTROMETRY 67-11 M19-80346

SULFIDES, CLEANING
CHEMICAL POLISHING OF CADMIUM SULFIDE 67-06 M12-70668

SULFIDES, CORROSION PRODUCTS
MECHANISM OF EVAPORATION OF SULFUR FROM SULFIDE SCALES 67-02 M14-58895

SULFIDES, CRYSTAL GROWTH
POLYMORPHISM IN SOME IV-VI COMPOUNDS INDUCED BY HIGH PRESSURE AND THIN-FILM EPITAXIAL GROWTH 67-08 M14-75552
GROWING CADMIUM SULFIDE CRYSTALS FOR ULTRASONICS AMPLIFICATION 67-10 M14-79248

SULFIDES, CRYSTAL LATTICES
WURTZITE AND ZINC BLENDE TYPE STRUCTURES 67-07 M13-73671
THE OBSERVATION OF THICK SPECIMENS BY HIGH VOLTAGE ELECTRON MICROSCOPY. EXPERIMENTS WITH MOLYBDENITE FILMS AT 50-500 KV 67-08 M13-75934
CHALCOGENIDES OF THE TRANSITION ELEMENTS. PT. 5. CRYSTAL STRUCTURES OF THE DISULFIDES AND DITELLURIDES OF RUTHENIUM AND OSMIUM 67-09 M13-76446

SULFIDES, ELASTIC CONSTANTS
ELASTIC CONSTANTS OF HEXAGONAL BEO, ZNS AND CDSE 67-08 M17-75130

SULFIDES, ELECTRICAL PROPERTIES
MEASUREMENTS OF THE DECAY OF LUMINESCENCE OF ELECTROLUMINESCENT ZNS PHOSPHORS WITH DIFFERENT EXCITATION 67-03 M16-65440
DISTRIBUTIONS OF ELECTRICALLY ACTIVE DEFECTS IN THE SURFACE REGION OF CDS SINGLE CRYSTALS 67-03 M16-65806
HIGH FIELD MOBILITY OF PHOTOELECTRONS IN CDS 67-04 M16-66773
CURRENT SATURATION AND INSTABILITIES IN CDS CRYSTALS 67-04 M16-66775
ACOUSTOELECTRIC EFFECT IN SEMICONDUCTING CDS 67-04 M16-66776
NEGATIVE RESISTANCE IN CADMIUM SULPHIDE FILMS 67-06 M15-71044
P-TYPE PHOTOELECTRIC BEHAVIOR IN CDS DOMINATED BY A HIGH-RESISTIVITY REGION NEAR THE ANODE 67-06 M16-69922
MAGNETIC AND ELECTRICAL PROPERTIES OF COPPER CONTAINING SULPHIDES AND SELENIDES WITH SPINEL STRUCTURE 67-06 M16-71172
PHOTOVOLTAIC EFFECTS OBSERVED WITH THIN FILMS OF ZINC SULPHIDE 67-07 M15-73633

SULFIDES, EXTRACTION
SOLVENT EXTRACTION STUDY MAY PAVE WAY FOR PROCESSING BULK SULPHIDE CONCENTRATES 67-06 M03-71497

SULFIDES, INCLUSIONS
STUDIES ON THE SOLIDIFYING RATE AND FORMATION OF SULFIDE INCLUSIONS IN VARIOUS RESULFURIZED STEELS 67-04 M13-67560

SULFIDES, LUBRICANTS
NOW--A BETTER SOLID FILM LUBRICANT 67-07 M08-72988
LUBRICATING WITH MOLYBDENUM DISULFIDE 67-07 M08-74289
THE CORROSION BEHAVIOR OF PALLADIUM IN TITANIUM-PALLADIUM ALLOY 67-12 M01-82504

SULFIDES, MAGNETIC PROPERTIES
MAGNETIC PROPERTIES OF ZNMN2S4, ZNMN2SE4 AND ZNMN2TE4 67-03 M15-65648
PRESSURE EFFECT ON MAGNETIC TRANSITIONS IN CRS1.17 67-04 M15-67481
THE SHIFT OF THE FERROMAGNETIC CURIE TEMPERATURE IN EUS BY HYDROSTATIC PRESSURE 67-06 M15-70463
INVESTIGATION OF THE MAGNETIC PROPERTIES OF NEODYMIUM MONOCHALCOGENIDES AT 4.2-150 K 67-07 M15-73704
MAGNETIC BEHAVIOR OF A EUTECTIC ALLOY FEATURING AN ALIGNED ARRAY OF IRON RODS 67-11 M15-80124
NEGATIVE MAGNETORESISTANCE IN N-TYPE LEAD SULPHIDE 67-11 M15-81679

SULFIDES, MECHANICAL PROPERTIES
INFLUENCE OF CHARGED DEFECTS ON MECHANICAL PROPERTIES OF LEAD SULFIDE 67-03 M17-65880
ACOUSTICS AND THIN FILMS 67-08 M17-74722
EFFECT OF PRESSURE ON THE ELASTIC PARAMETERS AND STRUCTURE OF CDS 67-09 M17-77172

SULFIDES, OPTICAL PROPERTIES
OPTICAL PROPERTIES OF ALPHA-MNS IN THE FUNDAMENTAL ABSORPTION REGION 67-04 M15-66791
OPTICAL PROPERTIES AND ENERGY BAND STRUCTURE OF ZNS-CDS SINGLE CRYSTALS 67-04 M16-66748
INFRARED LATTICE REFLECTION SPECTRA OF 2-6 COMPOUNDS 67-08 M15-75937
OPTICAL AND ELECTRICAL CHARACTERISTICS OF P-N JUNCTIONS IN ZINC SULFIDE 67-11 M15-80628
KINETICS OF OPTICAL CHARGE EXCHANGE IN COPPER-DOPED

SULFIDES
CADMIUM SULPHIDE SINGLE CRYSTALS 67-11 M15-81687
SULFIDES, PHYSICAL PROPERTIES
TRANSIENT MAGNETORESISTANCE OF PHOTOELECTRONS IN CADMIUM SULFIDE 67-04 M16-67472
ENGINEERING PROPERTIES OF SELECTED CERAMIC MATERIALS 67-07 M05-73875
ENERGY OF THE DONOR GROUND STATE IN CDS, CDSE, AND ZNO 67-11 M15-80629
MICROWAVE EMISSION FROM CDS 67-11 M15-80818
THE FREE ENERGIES OF FORMATION OF CRS, MO2S3, AND WS2 67-12 M15-82572
SULFIDES, PRECIPITATION
SULPHUR POTENTIALS IN IRON AND IN IRON-MANGANESE ALLOYS 67-06 M14-70805
SULFIDES, REACTIONS /CHEMICAL/
REACTION OF CUPROUS SULFIDE AND SULFURIC ACID 67-02 M02-58879
STUDY OF THE REACTION OF ZINC SULFIDE WITH SULFURIC ACID 67-02 M02-59845
THEORETICAL BASIS FOR HIGH TEMPERATURE CHLORINATION-ROASTING OF PYRITE CAKES 67-06 M02-71305
LOW-TEMPERATURE PHOTO-CHEMICAL REACTIONS IN IN4S5 SINGLE CRYSTALS 67-06 M14-71756
A KINETIC ANALYSIS OF ZNS IN RELATION TO VISCOSE SPINNING 67-07 M14-73832
VAPORIZATION RATE OF SULFIDES OF NONFERROUS METALS IN VACUUM 67-09 M14-77274
SULFIDES, REFINING
THE EFFECT OF IRON OXIDE ON THE REDUCTION OF GALENITE 67-05 M03-68958
SULFIDES, SEMICONDUCTORS
ELECTRICAL PROPERTIES OF SULFIDES OF TRANSITION METALS 67-02 M15-61633
X-RAY DIFFRACTION AND OPTICAL OBSERVATIONS ON CRYSTALLINE SOLIDS UP TO 300 KBAR 67-05 M13-68652
PHOTOVOLTAIC PROPERTIES OF CDS-P-TYPE SI HETEROJUNCTION CELLS 67-11 M15-80825
RETROGRADE SOLUBILITY OF LEAD IN N-TYPE PBS 67-12 M15-82853
SULFIDES, SINGLE CRYSTALS
EPITAXIAL FILMS OF PBTE, PBSE AND PBS GROWN ON MICA SUBSTRATES 67-10 M15-79337
PREPARATION AND MAGNETIC PROPERTIES OF COBALT DISULFIDE 67-11 M15-81684
SULFIDES, SLAGS
FORMS OF THE BONDING OF SULFUR IN BLAST FURNACE SLAGS 67-01 M04-57918
SULFIDES, STOICHIOMETRY
NONSTOICHIOMETRY OF CADMIUM SULFIDE THIN FILMS 67-04 M15-67327
SULFIDES, SUPERCONDUCTIVITY
SUPERCONDUCTIVE ANOMALY IN SPECIFIC HEATS OF LAYER STRUCTURE COMPOUNDS 67-08 M16-74429
SULFIDES, SURFACE PROPERTIES
SURFACE STATES ON THE --0001-- FACES OF CADMIUM SULPHIDE CRYSTALS 67-04 M16-67739
SULFIDES, THERMAL PROPERTIES
ULTRASONIC ATTENUATION IN CADMIUM SULFIDE FROM 1.8 TO 300 K 67-03 M15-65868
MEASUREMENT OF THE LINEAR EXPANSION COEFFICIENTS OF HEXAGONAL ZINC SULFIDE IN THE TEMPERATURE RANGE 78-290 K 67-05 M16-69400
SULFIDES, THERMODYNAMICS
CALCULATION OF HEAT CAPACITY OF REFRACTORY COMPOUNDS 67-06 M15-72330
SULFIDES, THIN FILMS
PREPARATION OF PHOTOSENSITIVE FILMS OF CADMINUM SULFIDE BY VACUUM EVAPORATION 67-08 M12-75182
EFFECT OF HEAT-TREATMENTS IN VACUUM-DEPOSITED CDS/AG AND CDS/LI FILMS 67-11 M14-80820
SULFIDES, TRANSPORT PROPERTIES
RADIATION DAMAGE IN CADMIUM SULFIDE AND CADMIUM TELLURIDE 67-08 M16-75126
INFLUENCE OF HYDROSTATIC PRESSURE ON THE ELECTRIC PROPERTIES OF SINGLE CRYSTALS OF THE SOLID SOLUTION 0.85PBTE PLUS 0.15PBS 67-09 M15-76774
FREQUENCY SPECTRUM OF ACOUSTIC WAVES GENERATED IN PHOTOCONDUCTING CDS IN HIGH ELECTRIC FIELDS 67-10 M16-79407
SULFIDES, WETTING
WETTING OF SOLID CHARGE MATERIAL BY MOLTEN SULFIDES AND ITS EFFECT ON CERTAIN PYROMETALLURGICAL PROCESSES 67-08 M03-75090
SULFIDING
SEE SULFIDIZATION
SULFIDIZATION
REACTION DIFFUSION IN BINARY ALLOY-GAS SYSTEMS. PT. 3. SULPHIDING OF COPPER-ALUMINIUM AND COPPER-MANGANESE ALLOYS 67-02 M14-61180
OXIDATION AND SULFIDATION CORROSION OF NICKEL BASE SUPERALLOYS 67-03 M18-65619
SULFIDIZING OF STEELS TO INCREASE THEIR RESISTANCE TO SCORING 67-08 M10-74980
ON THE PROBLEM OF TRANSFORMATIONS TAKING PLACE WITH OXIDIZED LEAD MINERALS DURING THEIR SULFIDIZING ROASTING 67-09 M02-76820
INFLUENCE OF SULFIDIZING ON FRICTION AND WEAR OF IRON-GRAPHITE MATERIALS 67-11 M17-80588
SULFIDIZATION, ALLOYING EFFECTS
DRY CORROSION OF COBALT-CHROMIUM ALLOYS AT HIGH TEMPERATURE--INFLUENCE OF TERNARY ADDITIONS 67-08 M18-75986
SULFIDIZING
SEE SULFIDIZATION
SULFIDIZING /NOT DIFFUSION/
EXTRACTION OF SELENIUM AND TELLURIUM FROM SULFURIC ACID AND CELLULOSE-PAPER PRODUCTION SLIMES BY THE SULFIDIC METHOD 67-06 M03-72116
SULFUR
DISTRIBUTION OF SULFUR IN WHITE GRAPHITIZED AND DECARBURIZED IRONS INVESTIGATED BY THE AUTORADIOGRAPHY METHOD 67-12 M13-82487
SULFUR, ADSORPTION
THE ADSORPTION OF SULFUR ON COPPER 67-01 M14-57422
THE EFFECT OF ADSORBED SULFUR ON THE SURFACE SELF-DIFFUSION OF COPPER 67-01 M14-57423
SULFUR, ALLOYING ADDITIVE
INFLUENCE OF SULFUR ADDITIONS ON THE SHRINKAGE PROCESS OF CAST IRON 67-01 M06-57193
THE INFLUENCE OF ADDITIVE ELEMENTS ON THE ACTIVITY COEFFICIENT OF SULFUR IN LIQUID LEAD AT 600 C 67-02 M14-59424
ON THE YIELD OF SULFUR AND THE INFLUENCE OF SULFUR ON THE MAGNETIC PROPERTIES OF TITANIUM CONTAINING HIGH-COERCIVE FORCE ALNICO MAGNET ALLOYS WITH SULFUR 67-02 M15-60141
EFFECT OF ADDITIONS OF SULFUR ON THE WEAR RESISTANCE OF GRAY CAST IRON 67-02 M17-62277
THE EFFECT OF SULFUR, PHOSPHORUS AND SILICON ADDITIVES ON THE ACTIVITY AND TYPE OF CORROSION OF NICKEL ANODES 67-03 M18-65417
INFLUENCE OF INCREASED SULFUR CONTENTS IN HIGH-SPEED STEELS 18.4.1. ON THE TECHNOLOGICAL AND MECHANICAL PROPERTIES 67-04 M17-66185
ANALYSIS OF PLANE-STRAIN FRACTURE IN A SERIES OF 0.45C-NI-CR-MO STEELS WITH DIFFERENT SULFUR CONTENTS 67-04 M17-66942
HIGH-SPEED MACHINING AND COLD HEADING OF STAINLESS STEEL 67-07 M08-74151
INVESTIGATION INTO 18-4-1 HIGH-SPEED TOOL STEEL CONTAINING 0.25 PER CENT SULFUR 67-07 M17-73245
THE STRUCTURE OF GRAY CAST IRON WITH DIFFERENT CONTENTS OF MANGANESE AND SULFUR 67-08 M06-74617
THE EFFECT OF SULFUR ON THE ACTIVITY OF OXYGEN IN IRON, COBALT AND NICKEL MELTS AT 1600 C 67-08 M14-75659
METHOD OF PREPARING LEAD-BASE ALLOYS WITH ALLOYING SULFUR AND COBALT ADDITIVES FOR THE MANUFACTURE OF INSOLUBLE ANODES 67-10 M18-79810
THE EFFECT OF THE FOUR MOST IMPORTANT ALLOYING ELEMENTS OF CAST IRON 67-11 M14-81384
SULFUR, ALLOYING EFFECTS
INFLUENCE OF SULPHUR, PHOSPHOROUS AND SILICON ON SOLIDIFICATION CRACKING IN TYPE 30KH10G10 WELD METAL 67-04 M11-67989
SULFUR, BINARY SYSTEMS
ELECTRICAL CONDUCTIVITY AND ELECTRODE PROCESSES IN LIQUID AND SOLID THALLIUM SULFIDES AND SELENIDES 67-03 M15-65585
INVESTIGATION OF THE BI2S3-SB2TE3 SYSTEM 67-04 M13-66011
INVESTIGATION OF THE BI2S3-SB2SE3 SYSTEM 67-09 M13-76850
ON THE TIN-SULFUR FUSIBILITY CURVE 67-09 M13-76853
ON THE EXISTENCE OF A NEW PHASE IN THE CHROMIUM-SULFUR SYSTEM--CHROMIUM POLYSULFIDE CR2S5 67-09 M13-77681
SULFUR, CHEMICAL ANALYSIS
STEELOSCOPE DETERMINATION OF SULFUR IN

SULFIDIZED CERMET PARTS 67-02 M19-62116
DETERMINATION OF THE SULFUR CONTENT OF IRON AND STEEL 67-07 M19-73239

SULFUR, CRYSTAL LATTICES
DETERMINATION OF THE COMPOSITION OF THE ADSORPTION LAYER OF S ON CU --111-- 67-10 M14-79897

SULFUR, DIFFUSION
INTER-DIFFUSION IN DILUTE CU-S, CU-SE AND CU-TE LIQUID COPPER BASE ALLOYS 67-01 M14-58747
DETERMINING DIFFUSION OF CALCIUM, IRON AND SULFUR IN SINTERED OXIDIZED NICKEL ORES 67-02 M14-60087
INVESTIGATION OF THE PARTICIPATION OF SULPHUR IN REACTION DIFFUSION ON THE FORMATION OF A SULPHIDE SCALE ON NICKEL 67-02 M18-61164
SULFURIZATION KINETICS OF DELTA IRON AT 1410 C 67-09 M14-77731
DIFFUSION AND SULFUR DISTRIBUTION IN ZIRCONIUM 67-09 M14-77775
THE DIFFUSION OF S IN AG 67-10 M14-79585
A CONTRIBUTION TO THE STUDY OF THE DIFFUSION OF S IN HIGH-PURITY CU 67-10 M14-79709
FORM OF GRAPHITE IN SULFUR-SATURATED MALLEABLE IRON 67-12 M14-81976

SULFUR, DISTRIBUTION
EQUILIBRIUMS BETWEEN LIQUID IRON AND SATURATED SLAGS OF THE CAO-FEON-SIO2 SYSTEM WITH CONSIDERATION OF THE DISTRIBUTION OF SULFUR 67-01 M04-57919

SULFUR, EXTRACTION
METHOD OF EXTRACTING SULFUR FROM IRON-CARBON-SULFUR MELTS 67-11 M14-81213

SULFUR, IMPURITIES
EFFECT OF SULFUR AND SELENIUM ON THE ELECTRODEPOSITION OF MANGANESE 67-11 M03-80433
INFLUENCE OF SULFUR IMPURITY ON DUCTILITY OF NICKEL 67-12 M17-83025

SULFUR, INCLUSIONS
THE FORMATION OF MANGANESE SULFIDE IN GRAY CAST IRONS DURING SOLIDIFICATION 67-05 M06-68950

SULFUR, INTERMETALLICS
THE INFLUENCE OF EXCESS NONSTOICHIOMETRIC BI ON THE THERMAL CONDUCTIVITY OF CRYSTAL LATTICES OF BI2TE3, BI2TE3-SB2-TE3 AND BI2TE3-BI2S3 WITH IODINE ADDITIONS 67-03 M15-65383
ON THE THERMAL CONDUCTIVITY OF CDTE AND SOME CDTE1 MINUS X SX AND CDTE1 MINUS X SEX SOLID SOLUTIONS 67-10 M15-79007

SULFUR, PRECIPITATION
PRECIPITATION OF SULFUR IMPURITIES FROM A NI-C MELT IN THE RECRYSTALLIZATION PERIOD 67-02 M14-59866

SULFUR, REACTIONS /CHEMICAL/
DISTRIBUTION OF SULFUR BETWEEN SLAG AND METAL IN ELECTROSLAG REMELTING 67-04 M04-66040
HOW NICKEL AFFECTS THE KINETICS OF IRON DESULFURIZATION BY A LIME-ALUMINA SLAG AT 1600 C 67-04 M04-67445
REACTION RATE OF SULFUR WITH LEAD 67-05 M14-69476

SULFUR, SOLUBILITY
THE SOLUBILITY OF SULFUR IN SILICON-IRON 67-06 M15-69946
THE SOLUBILITY OF SULFUR IN SILICON IRON 67-07 M15-73514
CONTRIBUTION TO THE STUDY OF THE CHEMICAL ACTIVITY OF THE ELEMENTS PHOSPHORUS, SULPHUR, SILICON, COPPER AND CHROMIUM IN MOLTEN IRON SOLUTIONS SATURATED WITH CARBON 67-09 M14-77343
THE EFFECT OF SILICON CONTENT ON THE SECONDARY RECRYSTALLIZATION OF SILICON-IRON 67-12 M14-82589

SULFUR, SORPTION
STRUCTURE OF AN ADSORBED SULFUR LAYER ON THE --100-- FACE OF COPPER 67-12 M13-82591

SULFUR, TERNARY SYSTEMS
THE NATURE AND TYPE OF SULFUR SOLUTIONS IN FE-S-NI AND FE-S-CR SYSTEMS 67-04 M14-66655
EFFECT OF COBALT ON THE ACTIVITY OF SULFUR IN LIQUID IRON 67-06 M15-72071
EXAMINATION OF THE SYSTEM CU-AS-S AND THE DISTRIBUTION OF AG BETWEEN MATTE AND SPEISS 67-08 M15-74598

SULFUR, THERMODYNAMICS
ACTIVITY OF SULFUR IN FE-S MELTS 67-02 M14-60053
EFFECT OF OXYGEN ON ACTIVITY OF SULFUR DISSOLVED IN MOLTEN IRON AT 1600 C 67-04 M14-66904
EFFECT OF ALLOYING ELEMENTS ON THE ACTIVITY OF SULFUR DISSOLVED IN MOLTEN IRON AT 1600 C 67-04 M14-66905
EFFECT OF CERIUM ON THE ACTIVITY OF SULFUR IN MOLTEN IRON 67-04 M14-66954
THERMODYNAMICS OF PYRRHOTITE IN THE TEMPERATURE RANGE OF 800 TO 1100 C 67-09 M15-77993

SULFUR, VAPORIZING
MECHANISM OF EVAPORATION OF SULFUR FROM SULFIDE SCALES 67-02 M14-58895

SULFUR COMPOUNDS
SEE ALSO SULFUR DIOXIDE

SULFUR COMPOUNDS, ABSORPTION /MATERIAL/
ABSORPTION OF SULFUR DIOXIDE IN MERCURY AT 25 C 67-03 M14-65097

SULFUR COMPOUNDS, CORROSION ENVIRONMENTS
THE RESISTANCE OF CHROMIUM-NICKEL WELDS TO GAS CORROSION IN AN ATMOSPHERE CONTAINING SULFUR COMPOUNDS 67-02 M11-61057

SULFUR COMPOUNDS, OPTICAL PROPERTIES
OPTICAL PROPERTIES OF THE MIXED AMORPHOUS SYSTEM, AS2SXSE3-X 67-10 M16-79369

SULFUR DIOXIDE, CORROSION ENVIRONMENTS
ON THE CORROSION RATE OF CAST IRON BY SULFUR DIOXIDE 67-01 M18-58545

SULFURIC ACID, CORROSION ENVIRONMENTS
EFFECT OF INTERSTITIAL ELEMENTS AND IRON ON CORROSION RESISTANCE OF COMMERCIALLY PURE TITANIUM IN HYDROCHLORIC ACID AND SULFURIC ACID 67-01 M18-58237
CREVICE CORROSION OF TITANIUM IN SULFURIC ACID 67-04 M18-67280
THE CORROSION BEHAVIOR OF PB AND PB ALLOYS IN H2SO4. PT. 4 67-05 M18-68585
PREVENTING THE CORROSION OF SULFURIC ACID APPARATUS BY METAL SPRAYING 67-06 M12-70399
SOME EFFECTS OF FLOW AND AERATION ON THE CORROSION BEHAVIOUR OF NICKEL IN SULPHURIC ACID SOLUTIONS 67-11 M18-80710

SULFURIC ACID ANODIZING
ARCHITECTURAL AND HARD ANODIZING 67-03 M12-65151
LONG-TANK ANODIZING FACILITIES 67-04 M12-66194
THE PROBLEM OF PASSIVATION OF NICKEL IN SULFURIC ACID SOLUTIONS 67-05 M18-69824
PASSIVATION OF NICKEL IN SOLUTIONS OF SULFURIC ACID 67-12 M18-82258

SULFURIZATION
THE KINETICS OF SULFURIZATION OF AG-ZN AND AG-AL ALLOYS IN SULFUR VAPORS 67-01 M14-57144
INVESTIGATION OF THE PARTICIPATION OF SULPHUR IN REACTION DIFFUSION ON THE FORMATION OF A SULPHIDE SCALE ON NICKEL 67-02 M18-61164
SULFURIZATION OF AG POWDER AND SECTIONS BY H2S AT LOW PRESSURE 67-05 M15-69136
SOME OBSERVATIONS ON SULFURIZED LAYERS ON IRON 67-06 M14-72296
SULFURIZATION KINETICS OF DELTA IRON AT 1410 C 67-09 M14-77731
KINETICS AND MECHANISM OF THE HIGH-TEMPERATURE SULPHURIZATION OF NICKEL-CHROMIUM ALLOYS 67-11 M14-80359
ON THE TRANSFORMATION OF TIN INTO A SUBLIMATE BY VACUUM SULFURIZATION 67-12 M03-83318

SULPHUR
SEE SULFUR

SUPERCONDUCTIVITY
SUPERCONDUCTIVITY DEGRADATION IN BETA-TUNGSTEN STRUCTURE COMPOUNDS-NB3SN--CB3SN AND NB3AL 67-01 M16-57408
SOME PROPERTIES OF HIGH FIELD SUPERCONDUCTORS WITH MAGNETIC IMPURITIES 67-01 M16-57446
MEASUREMENT OF CRITICAL FIELD HC3 AND CRITICAL SURFACE CURRENT IN SUPERCONDUCTING V-TI ALLOYS UP TO 30 KOE 67-01 M16-57959
THE GINZBURG-LANDAU PARAMETER --KO-- FOR VANADIUM 67-01 M16-57964
SUPERCONDUCTING CONTACTS IN HIGH MAGNETIC FIELDS 67-01 M16-57973
ANGULAR DEPENDENCE OF THE PINNING AND THE FLOW OF VORTICES IN THIN SUPERCONDUCTING FILMS 67-01 M16-58632
OBSERVATION OF THE SUPERCONDUCTING ENERGY GAP IN A SEMICONDUCTOR --GETE-- 67-01 M16-58638
50 CPS A-C LOSSES IN NIOBIUM-COPPER COMPOSITE CONDUCTORS AT 4.2 K 67-01 M16-58640
EXPERIMENTAL VERIFICATION OF THE MAGNETIC DEPENDENCE OF THE ORDER PARAMETER OF SUPERCONDUCTORS 67-01 M16-58643

THE TRANSITION TEMPERATURE OF SUPERCONDUCTING TECHNETIUM-RHENIUM ALLOYS 67-02 M15-61530
SUPERCONDUCTING FLUXLINE PINNING BY TWIN BOUNDARIES 67-02 M15-61536
EXPERIMENTAL EVIDENCE FOR A SURFACE MECHANISM FOR HYSTERESIS IN LOW-K TYPE-2 SUPERCONDUCTORS 67-02 M15-61569
SUPERCONDUCTIVITY OF THORIUM AND URANIUM 67-02 M15-61571
INVESTIGATION OF THE ELECTRICAL AND SUPERCONDUCTIVE PROPERTIES OF METALS OF DIFFERENT PURITIES. PT. 3 67-02 M16-58925
SUPERCONDUCTIVITY AND CRYOGENIC TECHNOLOGY 67-02 M16-59621
EFFECT OF MICROHETEROGENEITY ON SUPERCONDUCTIVE CHARACTERISTICS OF NB-ZR-TA ALLOY 67-02 M16-59926
ON THE RELATIONSHIP OF THE PARAMETERS OF SUPERCONDUCTIVITY OF ZR-4 PER CENT NB ALLOY TO ITS STRUCTURE 67-02 M16-59928
EFFECTS OF LATTICE DEFECTS ON CRITICAL CURRENT OF HARD SUPERCONDUCTING NIOBIUM 67-02 M16-60146
THE SUPRACONDUCTIBILITY OF A METASTASABLE PHASE OF GALLIUM 67-02 M16-60172
SUPPRESSION OF SURFACE SUPERCONDUCTIVITY BY COATING WITH A NORMAL METAL 67-02 M16-60257
PROCESSING OF V3GA WIRES AND THEIR SUPERCONDUCTING PROPERTIES 67-02 M16-60517
DISTRIBUTION OF NORMAL REGION AFTER S-N TRANSITION IN A SUPERCONDUCTING MAGNET 67-02 M16-60518
CRITICAL MAGNETIC FIELDS IN SUPERCONDUCTING FILMS OF INDIUM 67-02 M16-60527
APPARENT SUPERCONDUCTING ENERGY GAP IN LEAD FROM ULTRASONIC MEASUREMENTS 67-02 M16-60529
ENERGY GAP OF V3SI 67-02 M16-60532
MAGNETIC PROPERTIES OF THIN FILMS OF SOFT SUPERCONDUCTORS 67-02 M16-60593
PARALLEL CRITICAL FIELDS OF TYPE I TIN FILMS 67-02 M16-60594
SUPERCONDUCTING CRITICAL TEMPERATURES OF NONSTOICHIOMETRIC TRANSITION METAL CARBIDES AND NITRIDES 67-02 M16-60627
SUPERCONDUCTIVITY OF ALPHA URANIUM 67-02 M16-61139
SUPERCONDUCTING TRANSITION TEMPERATURES AND LATTICE CONSTANTS FOR THE PSEUDOBINARY SYSTEM NB3AL-NB3SB 67-02 M16-61570
ANISOTROPY OF THE ENERGY GAP IN SUPERCONDUCTING LEAD-BISMUTH ALLOYS 67-02 M16-61690
SOME SURFACE CURRENT PHENOMENA IN TYPE 2 SUPERCONDUCTORS 67-02 M16-61834
LOW-FIELD MAGNETIC BEHAVIOR OF TYPE 2 SUPERCONDUCTORS 67-02 M16-61838
SUPERCONDUCTIVITY IN AGED ZIRCONIUM-NIOBIUM ALLOYS 67-03 M15-65089
RESISTIVITY AND TUNNELLING PROPERTIES OF PARAMAGNETIC ALLOY FILMS 67-03 M15-65108
SUPERCONDUCTIVITY OF TECHNETIUM AND TECHNETIUM CARBIDE 67-03 M15-65133
THE EFFECT OF LATTICE DEFECTS ON THE SUPERCONDUCTION OF MERCURY 67-03 M15-65702
SUPERCONDUCTING INDIUM ANTIMONIDE 67-03 M16-65146
SUPERCONDUCTING CRITICAL FIELDS, CURRENTS AND TEMPERATURES IN THE NB-ZR-N TERNARY SYSTEM 67-03 M16-65390
THE SUPERCONDUCTING PROPERTIES OF PB-TL ALLOYS 67-03 M16-65392
SECOND-KIND SUPERCONDUCTIVITY OF INDIUM-LEAD ALLOYS 67-03 M16-65635
CONTRIBUTION OF THE ELECTON-PHONON INTERACTION TO THE EFFECTIVE MASS, SUPERCONDUCTING TRANSITION TEMPERATURE, AND THE RESISTIVITY IN ALUMINIUM 67-03 M16-65720
THE CRITICAL FIELDS OF SUPERCONDUCTING THIN FILMS OF TIN AND INDIUM ALLOYS 67-03 M16-65736
SUPERCONDUCTING TRANSITION TEMPERATURE AND RESISTIVITY OF TIN WHISKERS AS A FUNCTION OF UNIAXIAL TENSION 67-03 M16-65748
HYSTERESIS EFFECTS IN THREE SUPERCONDUCTING PHASES OF GALLIUM 67-03 M16-65750
SUPERCONDUCTING TRANSITION TEMPERATURE OF SOLID-SOLUTION TA-TI ALLOYS 67-03 M16-65878
SUPERCONDUCTING PROPERTIES OF NB6SN5 AND OF MUTLPHASE NB-SN ALLOYS 67-03 M16-65888
PHASE EQUILIBRIA IN THE NB-SN SYSTEM 67-04 M13-67266
SUPERCONDUCTIVITY AND SOME OF ITS APPLICATIONS 67-04 M16-66131
A LAYERED SUPERCONDUCTING STRIP 67-04 M16-66492
SUPERCONDUCTING PROPERTIES OF GERMANIUM TELLURIDE 67-04 M16-66792
X-RAY SPECTRA, ELECTRON STRUCTURE AND PROPERTIES OF TITANIUM METALLIC COMPOUNDS 67-04 M16-67372
SUPERCONDUCTING CRITICAL FIELDS OF NIOBIUM THIN FILMS 67-04 M16-67552
BREAKDOWN OF SUPERCONDUCTIVITY IN AN ALLOY WITH A DISPERSE SUPERCONDUCTIVE PHASE 67-04 M16-67635
SUPERCONDUCTIVITY OF METALLIC ALUMINUM ANTIMONIDE 67-04 M16-68121
INCREASE OF THE ANISOTROPY OF THE ENERGY GAP IN SUPERCONDUCTING THALLIUM UNDER PRESSURE 67-04 M16-68137
DETERMINATION OF THE ANISOTROPY OF THE ENERGY GAP IN SUPERCONDUCTING PB BY SUPERCONDUCTIVE TUNNELING 67-04 M16-68141
PHASE DIAGRAM OF THE NIOBIUM-TIN SYSTEM 67-05 M13-68450
PHASE DIAGRAM OF THE NB-TI-ZR SYSTEM AND SUPERCONDUCTING PROPERTIES OF THE ALLOYS OF THIS SYSTEM 67-05 M13-69640
THE ALPHA-TI-FE SOLID SOLUTION AND ITS SUPERCONDUCTING PROPERTIES 67-05 M14-68214
CRITICAL CURRENT OF TOROIDAL SUPERCONDUCTING NIOBIUM-ZIRCONIUM WIRES 67-05 M15-68336
DETERMINING OPTIMUM CONDITIONS FOR HEAT TREATING SUPERCONDUCTING NB-75 PER CENT ZR ALLOY 67-05 M15-69658
CRYSTAL STRUCTURE AND SUPERCONDUCTIVITY OF A HIGH-PRESSURE PHASE OF CASI2 67-05 M16-68220
INTERACTION OF FERROMAGNETIC AND SUPERCONDUCTING THIN FILMS 67-05 M16-68905
THE EFFECT OF HIGH PRESSURE ON THE SUPERCONDUCTING TRANSITION TEMPERATURE OF THE ALLOYS MO90RE10 AND NB75MO25 67-05 M16-69026
TRANSITION TEMPERATURE AND COMPOSITION OF THE SUPERCONDUCTING NB3SN-PHASE 67-05 M16-69092
DETERMINATION OF THE LOSS IN AN ALTERNATING FIELD ON A THIN FILM OF SUPERCONDUCTING NB-25 PER CENT ZR 67-05 M16-69097
ON THE SUPERCONDUCTIVITY OF HF-RH ALLOYS 67-05 M16-69342
THE INFLUENCE OF DISLOCATIONS ON SUPERCONDUCTIVITY 67-05 M16-69452
SEARCH FOR SURFACE SUPERCONDUCTIVITY INDUCED BY AN ELECTRIC FIELD 67-05 M16-69518
SUPERCONDUCTIVITY IN THE ALLOY SYSTEM INDIUM-THALLIUM 67-05 M16-69519
EFFECT OF STATE OF MATRIX ON THE PROPERTIES OF AN ALLOY WITH A DISPERSED SUPERCONDUCTING PHASE 67-05 M16-69672
SPECIFIC HEAT OF LEAD IN THE RANGE FROM 2 TO 8 K 67-06 M15-71792
SUPERHEATING AND SUPERCOOLING IN TYPE I SUPERCONDUCTORS--TIN 67-06 M16-70464
SURFACE CURRENTS IN TYPE 2 SUPERCONDUCTORS 67-06 M16-70467
STRONG-COUPLING SUPERCONDUCTIVITY IN GALLIUM 67-06 M16-70636
EVIDENCE FOR THERMODYNAMIC FLUCTUATIONS IN A SUPERCONDUCTOR 67-06 M16-70639
SUPERCONDUCTING CONTACTS UNDER MECHANICAL LOADS 67-06 M16-71027
MAGNETIC, SUPERCONDUCTING, AND OTHER PHASE TRANSITIONS WITHIN THE METALLIC STATE 67-06 M16-71202
UPPER-CRITICAL-FIELD LIMITS FOR BULK TYPE 2 SUPERCONDUCTORS 67-06 M16-71517
SUPERCONDUCTING PROPERTIES OF TECHNETIUM 67-06 M16-71790
SURFACE IMPEDANCE IN THE SURFACE SUPERCONDUCTING STATE 67-06 M16-71791
NATURE OF THE A-C TRANSITION IN THE SUPERCONDUCTING SURFACE SHEATH IN PB-2 PER CENT IN 67-06 M16-71793
SUPERCONDUCTIVITY AND ISOTOPE EFFECT IN BE22X COMPOUNDS AND MOLYBDENUM 67-06 M16-71989
SUPERCONDUCTING ENERGY GAP OF BULK LANTHANUM BY POINT CONTACT TUNNELING 67-06 M16-71995
BOND CHARACTER AS REVEALED BY ELECTRONIC PROPERTIES 67-07 M15-73664
EFFECT OF MICRONONHOMOGENEITY ON THE SUPERCONDUCTING CHARACTERISTICS OF THE ALLOY NB-ZR-TA 67-07 M16-72581
RELATION BETWEEN THE STRUCTURE AND SUPERCONDUCTIVITY PARAMETERS OF THE ALLOY OF

ZIRCONIUM WITH 4 PER CENT NIOBIUM
67-07 M16-72583
SIZE EFFECT AND CRITICAL TRANSPORT CURRENT IN TITANIUM --22 AT. PER CENT NIOBIUM--
67-07 M16-72628
THE SUPERCONDUCTIVITY IN BETA-BERYLLIUM AND RELATED PHASES 67-07 M16-73203
ELECTRON AND PHONON EFFECTS IN SUPERCONDUCTING FCC LEAD-BASED ALLOYS 67-07 M16-73312
MAGNETIC INVESTIGATION OF THE SUPERCONDUCTING BEHAVIOR OF SINTERED COMPACTS OF NIOBIUM AND COPPER-NIOBIUM 67-07 M16-73402
THE TEMPERATURE DEPENDENCE OF THE CRITICAL FIELD HC2 IN SOLID SOLUTION NB-TA ALLOYS
67-07 M16-73495
RELATIONSHIP BETWEEN THE SPIN SUSCEPTIBILITY ENHANCEMENT AND THE SUPERCONDUCTING TRANSITION TEMPERATURE 67-07 M16-73546
EXPERIMENTAL STUDY OF SURFACE SUPERCONDUCTIVITY
67-07 M16-73634
SUPERCONDUCTING TRANSITION TEMPERATURE AND ELECTRONIC STRUCTURE IN THE PSEUDOBINARIES NB3AL-NB3SN AND NB3SN-NB3SB 67-07 M16-73640
SUPERCONDUCTIVE PROPERTIES 67-07 M16-73689
CRITICAL SURFACE CURRENTS AND THE ANGULAR DEPENDENCE OF THE SURFACE CRITICAL FIELD OF A TYPE 2 SUPERCONDUCTOR 67-07 M16-74058
SUPERCONDUCTIVITY AT 20 DEGREES KELVIN
67-07 M16-74245
HIGH-FREQUENCY EFFECTS IN THE ACOUSTIC ATTENTUATION OF SUPERCONDUCTING ALUMINUM 67-08 M16-74399
SUPERCONDUCTIVE ANOMALY IN SPECIFIC HEATS OF LAYER STRUCTURE COMPOUNDS 67-08 M16-74429
THICKNESS DEPENDENCE OF KAPPA2 AND RELATED PROBLEMS FOR SUPERCONDUCTING ALLOY FILMS IN STRONG FIELDS 67-08 M16-74944
MAGNETIC FIELD DEPENDENCE OF THE MICROWAVE SURFACE IMPEDANCE OF SUPERCONDUCTING TANTALUM
67-08 M16-74945
NEW A-15 PHASES 67-08 M16-75002
SUPERCONDUCTIVITY OF HEXAGONAL BERYLLIUM
67-08 M16-75186
ALMOST IDEAL BEHAVIOR IN SOME TYPE 2 SUPERCONDUCTING ALLOYS 67-08 M16-75651
FABRICATION OF MULTILAYERED NB3SN SUPERCONDUCTING WIRES 67-08 M16-75757
RELAXATION AND RECOMBINATION TIMES OF QUASIPARTICLES IN SUPERCONDUCTING AL THIN FILMS
67-08 M16-75785
MICROWAVE FLUX-FLOW DISSIPATION IN PARAMAGNETICALLY-LIMITED TI-V ALLOYS
67-08 M16-75829
MEASUREMENTS OF MAGNETIZATION IN SUPERCONDUCTIVE MOLYBDENUM 67-09 M15-77687
THE INFLUENCE OF DIELECTRIC FILMS ON THE SUPERCONDUCTIVITY OF THIN SN AND TL FILMS
67-09 M16-76453
SUPERCONDUCTING PROPERTIES OF EUTECTICS
67-09 M16-77463
THE HALL ANGLE OF VARIOUS SUPERCONDUCTING NIOBIUM-TANTALUM ALLOYS IN THE MIXED STATE
67-09 M16-77672
FAR-INFRARED ABSORPTION IN SUPERCONDUCTING NIOBIUM ALLOYS 67-09 M16-77685
LAW OF CORRESPONDING STATES FOR FCC AND D-HCP LA
67-09 M16-77686
STRUCTURE OF ZR-4 PER CENT NB ALLOY AND ITS EFFECT ON THE CRITICAL PARAMETERS OF SUPERCONDUCTIVITY
67-09 M16-77769
EFFECT OF PLASTIC STRAIN ON CRITICAL CURRENT DENSITY OF SOME SUPERCONDUCTING ALLOYS
67-09 M16-77783
PROXIMITY EFFECTS BETWEEN SUPERCONDUCTORS AND FERROMAGNETIC DOMAINS 67-09 M16-77970
PREPARATION OF TIC-WC AND NBC-WC SOLID SOLUTIONS AND INVESTIGATION OF THEIR SUPERCONDUCTIVITY
67-10 M09-79341
EFFECT OF OXYGEN IMPURITY ON THE STRUCTURE AND SUPERCONDUCTING PROPERTIES OF ZIRCONIUM-NIOBIUM ALLOYS 67-10 M15-79629
ELECTRONIC EXCITATIONS IN METALS
67-10 M16-78308
FUNDAMENTALS OF MAGNETISM IN METALS
67-10 M16-78310
CRITICAL CONDUCTION AND INDUCED CURRENTS IN THE SURFACE OF NB --25 PER CENT -- ZR RIBBON AT LOW FIELDS 67-10 M16-78396
MAGNETIZATION MEASUREMENTS OF SUPERCONDUCTING MO-RE-ALLOYS CONTAINING IRON 67-10 M16-78445
SUPERCONDUCTIVITY OF THE TRANSITION-METAL CARBIDES
67-10 M16-78733
AMPLITUDE-INDEPENDENT ULTRASONIC ATTENUATION IN SUPERCONDUCTING LEAD 67-10 M16-79150
THE NATURE OF CURRENT-INDUCED TRANSITIONS IN TYPE II SUPERCONDUCTORS ABOVE HC2 67-10 M16-79363
DEPENDENCE OF THE CRITICAL CURRENT ON THE MAGNETIC FIELD STRENGTH AND EXPERIMENTAL REGULARITIES IN THE CHARACTER OF THE DESTRUCTION OF THE SUPERCONDUCTIVITY OF NIOBIUM BY A CURRENT AND A MAGNETIC FIELD 67-10 M16-79459
THE SUPERCONDUCTING PROPERTIES OF ALUMINUM FILMS
67-10 M16-79460
SPECIFIC HEAT OF LANTHANUM, PRASEODYMIUM, AND SAMARIUM METALS BETWEEN 3 AND 25 K
67-11 M15-81386
FREQUENCY EFFECT IN THE ULTRASONIC ATTENUATION IN NIOBIUM IN THE MIXED STATE 67-11 M16-80191
HIGH SUPERCONDUCTING TRANSITION TEMPERATURES IN THE MOLYBDENUM CARBIDE FAMILY OF COMPOUNDS
67-11 M16-80317
MEASUREMENT OF LOW JOINT RESISTANCE BETWEEN SUPERCONDUCTORS 67-11 M16-80333
TYPE-1 SUPERCONDUCTIVITY IN MOLYBDENUM
67-11 M16-80627
ENERGY GAP OF SUPERCONDUCTING NB3SN
67-11 M16-80656
TRANSITION TEMPERATURE OF PB-IN AND PB-TL ALLOYS
67-11 M16-80720
SUPERCONDUCTIVITY AND HARDNESS 67-11 M16-80773
PARAMAGNETIC SUSCEPTIBILITY IN THE V3SI TYPE OF COMPOUNDS IN THE NORMAL STATE
67-11 M16-81390
V51 KNIGHT SHIFT IN THE V3SI TYPE OF COMPOUNDS IN THE NORMAL STATE 67-11 M16-81391
PHASE TRANSFORMATIONS IN CB-TI-ZR ALLOYS
67-12 M14-81845
HEAT CONDUCTIVITIES BELOW 1 K. PT. 2
67-12 M15-83401
FAR-INFRARED ABSORPTION IN SUPERCONDUCTING AND NORMAL LEAD 67-12 M16-82102
SUPERCONDUCTIVITY OF CECO2 67-12 M16-82294
SUPERCONDUCTIVITY OF CD-BI EUTECTIC SOLDER
67-12 M16-82373
STUDIES OF SUPERCONDUCTING NB-25 PER CENT ZR WIRES CARRYING ALTERNATING CURRENT IN AN AXIALLY APPLIED MAGNETIC FIELD 67-12 M16-82389
PEAK EFFECT IN SUPERCONDUCTING NB-15 AT. PER CENT ZR-45 AT. PER CENT TI ALLOYS 67-12 M16-83258
THERMAL EXPANSION AT LOW TEMPERATURES OF ANISOTROPIC METALS. INDIUM 67-12 M16-83403

SUPERCONDUCTIVITY, ALLOYING EFFECTS
SUPERCONDUCTING TRANSITION TEMPERATURES OF LEAD ALLOYS 67-02 M16-59065
THE SPECIFIC HEAT AND SUPERCONDUCTIVITY OF LA-Y ALLOYS 67-11 M16-81470
EFFECT OF VANADIUM ADDITIONS ON THE STRUCTURE AND SUPERCONDUCTING PROPERTIES OF NIOBIUM-ZIRCONIUM ALLOYS 67-12 M16-82419

SUPERCONDUCTIVITY, COMPOSITION EFFECTS
SUPERCONDUCTIVITY OF CUBIC NIOBIUM CARBO-NITRIDES
67-05 M16-68288
SUPERCONDUCTING TRANSITIONS IN BODY-CENTERED CUBIC THALLIUM-INDIUM ALLOYS 67-05 M16-69520
PROBABLE UPPER LIMIT OF HC2 FOR SOME HIGHER-ORDER DUCTILE TRANSITION-METAL SUPERCONDUCTING ALLOYS
67-07 M16-72663
SUPERCONDUCTING HC-JC AND TC MEASUREMENTS IN THE NB-TI-N, NB-HF-N AND NB-V-N TERNARY SYSTEMS
67-09 M16-77449

SUPERCONDUCTIVITY, HEATING EFFECTS
EFFECT OF MICROHETEROGENEITY ON CRITICAL CURRENTS OF SUPERCONDUCTING ALLOYS 67-04 M16-66500
PROCESSING OF V3GA SUPERCONDUCTING WIRES
67-04 M16-67576
SUPERCONDUCTING CRITICAL CURRENTS OF V3GA WIRES MADE BY A NEW DIFFUSION PROCESS
67-10 M16-79125
EFFECTS OF LOW-TEMPERATURE AGING ON THE RESISTIVE TRANSITION OF SUPERCONDUCTING 70ZR-30NB --CB-- IN PULSED MAGNETIC FIELDS 67-12 M16-82721
EFFECT OF PRECIPITATION ON THE SUPERCONDUCTING PROPERTIES OF AN AL-15 AT . PER CENT ZN ALLOY
67-12 M16-82867

SUPERCONDUCTIVITY, IMPURITY EFFECTS
ULTRASONIC STUDIES OF THE SUPERCONDUCTIVITY OF DOPED TIN 67-02 M16-60530
NATURE, SIZE AND DISTRIBUTION OF LATTICE DEFECTS AND THEIR INFLUENCE ON THE HIGH-FIELD PROPERTIES

SUPERCONDUCTIVITY

OF THE TYPE 3 SUPERCONDUCTOR NB-ZR 25
67-06 M16-71728
MEISSNER EFFECT FOR SUPERCONDUCTORS WITH MAGNETIC IMPURITIES 67-08 M16-74400
SUPERCONDUCTIVITY, MAGNETIC FIELDS
SUPERHEATING IN PURE SUPERCONDUCTING NIOBIUM
67-08 M16-74472
LOSSES OF SUPERCONDUCTING NIOBIUM IN LOW FREQUENCY FIELDS 67-08 M16-75654
CORRELATION BETWEEN CRITICAL CURRENTS AND CRITICAL MAGNETIC FIELDS IN A NONIDEAL TYPE 2 SUPERCONDUCTOR 67-08 M16-75665
SUPERCONDUCTIVITY IN THE PRESENCE OF MAGNETIC EXCHANGE FIELDS 67-10 M16-79282
SUPERCONDUCTIVITY, PRESSURE EFFECTS
SUPERCONDUCTIVITY OF GERMANIUM AND SILICON AT HIGH PRESSURE 67-02 M16-60820
SUPERCONDUCTIVITY OF TIN AND LEAD AT VERY HIGH PRESSURE 67-02 M16-60821
PRESSURE DEPENDENCE OF THE SUPERCONDUCTING TRANSITION TEMPERATURE IN ZINC
67-02 M16-61120
SUPERCONDUCTIVITY OF ALPHA-URANIUM AND URANIUM COMPOUNDS AT HIGH PRESSURE 67-05 M16-69513
SUPERCONDUCTIVITY OF LANTHANUM AND LANTHANUM COMPOUNDS AT ZERO AND HIGH PRESSURE
67-07 M16-72839
WILL PRESSURE DESTROY SUPERCONDUCTIVITY
67-10 M16-78734
SUPERCONDUCTIVITY, RADIATION EFFECTS
ENHANCEMENT OF SUPERCONDUCTING CRITICAL CURRENT DENSITY IN NB3SN DIFFUSION LAYERS PRODUCED BY IRRADIATION WITH PROTONS 67-03 M16-65110
THE INFLUENCE OF ALPHA IRRADIATION ON THE TRANSITION TEMPERATURE OF SUPERCONDUCTIVE TIN, INDIUM AND THALLIUM FOILS 67-10 M16-78497
EFFECT OF FAST NEUTRON IRRADIATION AT LOW TEMPERATURE ON NBZR COIL PERFORMANCE
67-11 M16-80335
SUPERCONDUCTIVITY, STRESS EFFECTS
EFFECTS OF THE DEGREE OF DEFORMATION ON THE SUPERCONDUCTING PROPERTIES OF NIOBIUM AND VANADIUM 67-08 M16-74869
SUPERCONDUCTIVITY, TEMPERATURE EFFECTS
CRITICAL-CURRENT BEHAVIOR IN NARROW THIN-FILM SUPERCONDUCTORS 67-02 M16-60534
NUCLEATION OF THE SUPERCONDUCTING PHASE
67-05 M16-69721
TEMPERATURE DEPENDENCE OF THE CRITICAL FIELD IN SUPERCONDUCTING VANADIUM 67-05 M16-69775
SUPERCONDUCTORS
SIZE EFFECT IN THE INTERMEDIATE STATE THERMAL RESISTIVITY MAXIMA IN INDIUM AND LEAD
67-01 M16-57545
GE, SN, AL AND BE SOLID SOLUTIONS IN THE V3SI COMPOUND AND THEIR SUPERCONDUCTIVITY
67-02 M13-58866
SUPERCONDUCTING SOLENOIDS MADE FROM NIOBIUM ALLOYS WITH ZIRCONIUM 67-02 M20-59645
ANISOTROPIC ENERGY GAP IN SUPERCONDUCTING WHITE TIN.. SEMIEMPIRICAL APPROACH 67-04 M16-68139
WANTED.. MATERIALS THAT DO NOT EXIST
67-06 M01-71238
THE RELATION OF SHAPE OF THE HOMOGENEITY FIELD
67-06 M16-70319
UPPER-CRITICAL-FIELD LIMITS FOR BULK TYPE 2 SUPERCONDUCTORS 67-06 M16-71517
SUPERCONDUCTORS--MATERIALS OF ELECTRICAL TECHNOLOGY
67-06 M16-72380
SUPERCONDUCTORS, ACOUSTIC PROPERTIES
DISPERSION OF TRANSVERSE SOUND IN SUPERCONDUCTORS
67-01 M16-57962
SUPERCONDUCTORS, ATOMIC STRUCTURE
THE PROBLEM OF SUPERCONDUCTIVITY MECHANISMS
67-01 M16-57993
SUPERCONDUCTORS, ATTENUATION
ULTRASONIC ATTENUATION IN NORMAL AND SUPERCONDUCTING LEAD--ELECTRONIC DAMPING OF DISLOCATIONS 67-07 M16-73817
SUPERCONDUCTORS, COATING
SUPPRESSION OF SURFACE SUPERCONDUCTIVITY BY COATING WITH A NORMAL METAL 67-02 M16-60257
BIAS SPUTTERING.. ITS TECHNIQUES AND APPLICATIONS
67-07 M12-73835
SUPERCONDUCTORS, CRYSTAL LATTICES
EFFECTS OF LATTICE DEFECTS ON CRITICAL CURRENT OF HARD SUPERCONDUCTING NIOBIUM 67-02 M16-60146
SUPERCONDUCTING TRANSITION TEMPERATURES AND LATTICE CONSTANTS FOR THE PSEUDOBINARY SYSTEM NB3AL-NB3SB
67-02 M16-61570
EFFECT OF SPECIMEN THICKNESS ON THE SUPERCONDUCTING BEHAVIOR OF NIOBIUM SINGLE CRYSTALS IN TORSION
67-03 M16-65224
LOW TEMPERATURE STRUCTURAL TRANSFORMATION IN NB3SN
67-06 M14-70574
SUPERCONDUCTORS, CRYSTAL STRUCTURE
EFFECT OF STRUCTURE ON THE SUPERCONDUCTING PROPERTIES OF EUTECTIC ALLOYS
67-01 M16-57105
SUPERCONDUCTORS, ELECTRICAL PROPERTIES
INVESTIGATION OF THE ELECTRICAL AND SUPERCONDUCTIVE PROPERTIES OF METALS OF DIFFERENT PURITIES. PT. 3 67-02 M16-58925
SUPERCONDUCTING TRANSITION TEMPERATURES OF LEAD ALLOYS 67-02 M16-59065
TUNNELING INVESTIGATION OF ENERGY-GAP ANISOTROPY IN SUPERCONDUCTORS 67-04 M16-66511
ENERGY-GAP MEASUREMENTS IN TYPE-2 SUPERCONDUCTORS BY A NEW METHOD 67-04 M16-67180
INTERACTION OF FERROMAGNETIC AND SUPERCONDUCTING THIN FILMS 67-05 M16-68905
DETERMINATION OF THE LOSS IN AN ALTERNATING FIELD ON A THIN FILM OF SUPERCONDUCTING NB-25 PER CENT ZR 67-05 M16-69097
NEW MEASUREMENTS OF THE ELECTROMAGNETIC ABSORPTION SPECTRUM OF SUPERCONDUCTING LEAD
67-06 M16-70637
MICROWAVE INVESTIGATION OF THE SMALL GAP ANOMALY IN LANTHANUM 67-06 M16-71992
ANOMALOUS ELECTROMAGNETIC MICROWAVE ABSORPTION OF SUPERCONDUCTING ALLOYS IN A STATIC MAGNETIC FIELD
67-06 M16-71994
DISTRIBUTION OF MAGNETIC FIELDS AND CURRENTS IN TYPE 2 SUPERCONDUCTORS 67-08 M16-75649
EFFECT OF DIELECTRIC AND HIGH-RESISTIVITY BARRIERS ON THE SUPERCONDUCTING TRANSITION TEMPERATURE OF THIN FILMS 67-09 M16-77562
SUPERCONDUCTORS, HEAT TREATMENT
SUPERCONDUCTING NIOBIUM ALLOYS WITH ZIRCONIUM AND EFFECT OF HEAT TREATMENT ON THEIR PROPERTIES
67-02 M15-60892
SUPERCONDUCTORS, IRRADIATION
EFFECT OF LOW-TEMPERATURE DEUTERON IRRADIATION ON SOME TYPE-2 SUPERCONDUCTORS 67-06 M16-71789
SUPERCONDUCTORS, MAGNETIC MEASUREMENTS
SOME TECHNIQUES FOR SENSITIVE MAGNETIC MEASUREMENTS USING SUPERCONDUCTING CIRCUITS AND MAGNETIC SHIELDS 67-06 M16-70549
SUPERCONDUCTORS, MAGNETIC PROPERTIES
SOME PROPERTIES OF HIGH FIELD SUPERCONDUCTORS WITH MAGNETIC IMPURITIES 67-01 M16-57446
TEMPERATURE DEPENDENCE OF CRITICAL FIELDS IN HIGH FIELD SUPERCONDUCTORS 67-01 M16-57450
MEASUREMENT OF CRITICAL FIELD HC3 AND CRITICAL SURFACE CURRENT IN SUPERCONDUCTING V-TI ALLOYS UP TO 30 KOE 67-01 M16-57959
REMOVAL OF SUPERCONDUCTING SURFACE-SHEATH BY COPPER-PLATING 67-01 M16-57971
MAXIMUM CRITICAL MAGNETIC FIELDS IN SUPERCONDUCTING METALS 67-01 M16-58169
CRITICAL FIELDS OF TYPE 2 SUPERCONDUCTORS IN THE PRESENCE OF ELECTRON SPIN EFFECTS
67-01 M16-58630
GEOMETRICAL RESONANCE EFFECT IN SUPERCONDUCTING SN
67-01 M16-58637
A HIGH-RESOLUTION METHOD OF INVESTIGATING THE MAGNETIC STRUCTURE OF SUPERCONDUCTORS
67-03 M15-65225
DIRECT OBSERVATION OF SURFACE EFFECTS IN A HYSTERETIC SUPERCONDUCTOR 67-03 M16-65138
CRITICAL MAGNETIC FIELDS OF SUPERCONDUCTING SNTE
67-03 M16-65142
THE SUPERCONDUCTING PROPERTIES OF PB-TL ALLOYS
67-03 M16-65392
SECOND-KIND SUPERCONDUCTIVITY OF INDIUM-LEAD ALLOYS
67-03 M16-65635
MAGNETIC PROPERTIES OF SUPERCONDUCTING SN FILMS
67-03 M16-65646
FLUX TRAPPING IN ROTATING SUPERCONDUCTORS
67-04 M16-66178
EXPERIMENTAL TESTS OF THE CRITICAL-STATE MODEL FOR HYSTERETIC SUPERCONDUCTORS 67-04 M16-67179
VANISHING KNIGHT SHIFT IN SUPERCONDUCTING ALUMINUM
67-04 M16-67732
DIRECT EVIDENCE OF PERSISTENT CURRENT LOOPS IN HARD SUPERCONDUCTING WIRE 67-04 M16-68072
MAGNETIC PROPERTIES OF SUPERCONDUCTING MO-RE ALLOYS
67-04 M16-68140

NMR STUDY OF TWO ENERGY GAPS IN SUPERCONDUCTING COMPOUNDS 67-05 M16-69767
NUCLEAR MAGNETIC RESONANCE IN SUPERCONDUCTING LEAD 67-06 M16-70638
ELECTRICAL RESISTANCE AND MAGNETIZATION OF TYPE 2 SUPERCONDUCTORS 67-06 M16-71991
OBSERVATIONS OF MAGNETIC STRUCTURES IN TYPE II SUPERCONDUCTORS 67-07 M16-72941
LOW-TEMPERATURE PERMEABILITY MEASUREMENTS ON FERRITES 67-08 M15-74392
CALCULATION OF THE MAGNETIC PROPERTIES OF SUPERCONDUCTING VANADIUM 67-08 M15-75822
NONLINEAR AND NONLOCAL EFFECTS ON THE CRITICAL MAGNETIC FIELD FOR SUPERCONDUCTING IN-SN ALLOYED FILMS 67-08 M16-75081
INTRINSIC SIZE EFFECTS IN TYPE-2 SUPERCONDUCTING FILMS 67-08 M16-75929
THE SUPERCONDUCTING GRADE 65BT ALLOY 67-08 M20-75442
IRREVERSIBLE MAGNETIZATION IN SUPERCONDUCTORS 67-09 M16-77014
EXPERIMENTAL STUDIES OF MAGNETIC PROPERTIES OF A METAL IN THE NORMAL AND SUPERCONDUCTING STATES 67-10 M15-78397
HYSTERESIS IN SUPERCONDUCTORS. PT. 1. FLUX TRAPPING IN LOW- AND HIGH-K MATERIALS 67-10 M16-78739
ELECTRON MIRROR OBSERVATION OF SUPER-CONDUCTORS IN THE INTERMEDIATE STATE 67-10 M16-78781
THE IRREVERSIBLE BEHAVIOUR OF SUPERCONDUCTING NIOBIUM WIRE 67-11 M16-80908
A METHOD FOR EVALUATING THE STABILITY OF COMPOSITE SUPERCONDUCTORS 67-11 M16-81086
MAGNETIC PROPERTIES OF RIGID SUPERCONDUCTORS 67-12 M15-82328

SUPERCONDUCTORS, MATERIALS
A COMPARATIVE REVIEW OF MATERIALS FOR CONSTRUCTION OF SUPERCONDUCTING SOLENOIDS 67-10 M16-78779

SUPERCONDUCTORS, MECHANICAL PROPERTIES
LATTICE INSTABILITY OF HIGH-TRANSITION-TEMPERATURE SUPERCONDUCTORS. PT. 1. POLYCRYSTALLINE A-15 COMPOUNDS 67-05 M16-69516
ELASTIC CONSTANTS OF THE FLUX LINE LATTICE IN TYPE 2 SUPERCONDUCTORS 67-06 M16-70987

SUPERCONDUCTORS, NUCLEAR PROPERTIES
ZERO-FIELD NUCLEAR SPIN RELAXATION AND RESONANCE ABSORPTION IN SUPERCONDUCTING ALUMINUM 67-10 M16-78735

SUPERCONDUCTORS, OPTICAL PROPERTIES
OPTICAL PROPERTIES OF SUPERCONDUCTING NB-TI ALLOYS 67-08 M15-74637

SUPERCONDUCTORS, PHASE TRANSFORMATIONS
NEW PHASE TRANSFORMATION IN INSB AT HIGH PRESSURE AND HIGH TEMPERATURE 67-09 M14-77429
A VARIABLE TEMPERATURE LIQUID HELIUM STAGE FOR METALLOGRAPHIC STUDIES OF SUPERCONDUCTING MATERIALS 67-12 M16-83402

SUPERCONDUCTORS, PHASES /STATE OF MATTER/
UNIDIRECTIONALLY SOLIDIFIED EUTECTICS FOR OPTICAL, ELECTRONIC, AND MAGNETIC APPLICATIONS 67-09 M14-76722
X-RAY STRUCTURE INVESTIGATIONS OF SUPERCONDUCTING ALLOYS WITH NIOBIUM AS THE BASE 67-10 M13-79542

SUPERCONDUCTORS, PHYSICAL PROPERTIES
ANALOGIES OF THE ETTINGSHAUSEN AND PELTIER EFFECTS IN THE MIXED STATE OF TYPE 2 SUPERCONDUCTORS 67-01 M16-57966

SUPERCONDUCTORS, SUPERCONDUCTIVITY
AMPLITUDE-DEPENDENT ULTRASONIC ATTENUATION IN NORMAL AND SUPERCONDUCTING LEAD 67-01 M16-57591
SUPERCONDUCTING CONTACTS IN HIGH MAGNETIC FIELDS 67-01 M16-57973
OBSERVATION OF THE SUPERCONDUCTING ENERGY GAP IN A SEMICONDUCTOR --GETE-- 67-01 M16-58638
DISTRIBUTION OF NORMAL REGION AFTER S-N TRANSITION IN A SUPERCONDUCTING MAGNET 67-02 M16-60518

SUPERCONDUCTORS, TERNARY SYSTEMS
SUPERCONDUCTING CRITICAL FIELDS, CURRENTS AND TEMPERATURES IN THE NB-ZR-N TERNARY SYSTEM 67-03 M16-65390

SUPERCONDUCTORS, THERMAL PROPERTIES
SUPERCONDUCTING-AND NORMAL-STATE THERMAL CONDUCTIVITY OF IMPURE TIN 67-05 M16-69514
ENERGY GAP AND THERMAL CONDUCTIVITY OF PURE AND IMPURE SUPERCONDUCTING TIN 67-05 M16-69515
LATTICE INSTABILITY OF HIGH-TRANSITION-TEMPERATURE SUPERCONDUCTORS. PT. 2. SINGLE-CRYSTAL V3SI RESULTS 67-05 M16-69517
THERMAL TRANSPORT ACROSS SUPERCONDUCTING SOLDER JOINTS NEAR 0.1 K 67-09 M15-78030
HEAT CONDUCTIVITIES BELOW 1 K. PT. 1 67-10 M15-78780
THERMAL PROPERTIES OF ANOMALOUS SUPERCONDUCTORS 67-10 M16-79467

SUPERCONDUCTORS, THERMODYNAMICS
THERMODYNAMIC PROPERTIES OF THIN SUPERCONDUCTING FILMS 67-04 M16-66479
ON THE ENTROPY OF HYSTERETIC SUPERCONDUCTING STATES 67-06 M16-70466

SUPERCONDUCTORS, TRANSPORT PROPERTIES
ANALOG OF THE NERNST EFFECT IN THE INTERMEDIATE STATE OF TYPE I SUPERCONDUCTORS 67-08 M16-75825
FLUX NONFLOW IN THE FLUX-FLOW REGIME IN BULK TIN 67-10 M16-78731

SUPERCONDUCTORS, ULTRASONICS
AMPLITUDE-DEPENDENT ULTRASONIC ATTENUATION IN SUPERCONDUCTORS 67-02 M16-60528
EFFECT OF STRAIN AND IMPURITIES ON THE ULTRASONIC ATTENUATION IN SUPERCONDUCTING TIN 67-04 M16-66180
ULTRASONIC ATTENUATION IN A PURE TYPE-2 SUPERCONDUCTOR NEAR NC2 67-04 M16-66660

SUPERCONDUCTORS, WIRE
PREPARATION AND INVESTIGATION OF SUPERCONDUCTING NIOBIUM-ZIRCONIUM WIRE 67-02 M15-60799
NB MICROWIRE FOR SUPERCONDUCTING MATERIALS 67-05 M16-68237

SUPERCOOLING
THE THEORY OF THE STABILITY OF THE SOLID-LIQUID INTERFACE UNDER CONSTITUTIONAL SUPERCOOLING. PT. 1 67-01 M14-57570
DENDRITE STRUCTURE AND GRAIN SIZE OF UNDER COOLED MELTS 67-03 M14-65078
STABILITY OF SUPERCOOLED AUSTENITE IN CSN 17021 STEEL ON WELDING SEAMS PREHEATED AND SUBSEQUENTLY ANNEALED 67-06 M10-70358
DIRECT OBSERVATION OF DENDRITE REMELTING IN METAL ALLOYS 67-06 M13-69945
RECRYSTALLIZATION CHARACTERISTICS OF AL-0.3 PER CENT ZR ALLOYS 67-06 M14-71212
EFFECTS OF THE THIRD ADDITIONAL ELEMENTS ON RAPID COOLED CAST STRUCTURES OF AL-3 5 PER CENT MN ALLOYS. PT. 3. STUDIES ON HYPEREUTECTIC AL-MN ALLOYS 67-06 M14-71215
SUPERHEATING AND SUPERCOOLING IN TYPE I SUPERCONDUCTORS--TIN 67-06 M16-70464
SUPERCOOLING OF MOLTEN CAST IRON DURING EUTECTIC SOLIDIFICATION 67-08 M14-74674
CRYSTALLIZATION OF METALS FROM SUPERCOOLED STATE 67-08 M15-75888
THE EFFECT OF AN ELECTRIC FIELD UPON SOLUTE REDISTRIBUTION DURING SOLIDIFICATION OF BI-SN ALLOYS 67-12 M14-82968

SUPERFINES
SEE ULTRAFINES

SUPERFINISH
SEE SURFACE FINISH

SUPERHEATERS
HIGH-TEMPERATURE PROPERTIES OF AN IMPROVED 1 PER CENT CR STEEL 67-11 M17-80260

SUPERHEATERS, CORROSION
THE CORROSION OF AUSTENITIC SUPERHEATER STEELS BY ALKALI SULFATE/ALKALI CHLORIDE MIXTURES IN AIR AND COMBUSTION GASES 67-02 M18-62023
PREVENTION OF SUPERHEATER CORROSION IN OIL-FIRED HIGH-TEMPERATURE BOILERS 67-02 M18-62030

SUPERHEATERS, WELDING
WELDING EI993 STEEL STEAM SUPERHEATER PIPES 67-11 M11-80648

SUPERHEATING
NATURAL GAS FOR MELTING CAST IRON 67-02 M04-61688
INFLUENCE OF SUPERHEATING THE MOLTEN IRON ON THE WEAR RESISTANCE OF CASTINGS 67-04 M17-68097
STABILITY OF HIGH-NICKEL ALLOYS IN SUPERHEATED STEAM 67-05 M14-69447
SUPERHEATING AND SUPERCOOLING IN TYPE I SUPERCONDUCTORS--TIN 67-06 M16-70464
MELTING AND SUPERHEATING IRON IN A GAS CUPOLA 67-07 M06-73044
OXYGEN, OXIDES, SUPERHEATING AND GRAPHITE NUCLEATION IN CAST IRON 67-10 M01-79291

SUPERLATTICES
THE UNIQUE FEATURE OF A LOW ANGLE BOUNDARY IN THE CU-ZN SUPERLATTICE 67-01 M13-57488
PRECIPITATION AT SUPERLATTICE DOMAIN BOUNDARIES

SUPERLATTICES
WITH PARTICULAR REFERENCE TO A COPPER-ALUMINIUM-NICKEL ALLOY 67-01 M14-57477
LATTICE MODULATIONS IN THE CUAU ALLOY 67-01 M14-58751
ORDER-DISORDER TRANSFORMATION OF FE-CO ALLOYS IN FINE PARTICLES 67-02 M14-59751
INTERSTITIAL ORDERING IN VANADIUM 67-02 M14-60652
NATURE OF THE ORDER-DISORDER TRANSFORMATION IN THE ALLOY MG3CD 67-02 M14-61922
STUDY OF ORDERING STRUCTURE OF SOLID SOLUTION IN ALNICO ALLOY CONTAINING TITANIUM 67-02 M14-62074
A GRAPHICAL METHOD FOR INDEXING X-RAY POWDER PHOTOGRAPHS OF COMPLEX SUPERLATTICE STRUCTURES IN ALLOYS 67-04 M13-66899
ORDERED ALLOYS OF THE GOLD-PALLADIUM SYSTEM. PT. 2. ELECTRON DIFFRACTION STUDY ON EVAPORATED AUPD3 FILMS 67-04 M14-67477
FEATURES OF THE AB2 SUPERSTRUCTURE --PT2MO-TYPE-- IN A FACE-CENTERED CUBIC LATTICE 67-05 M14-68240
PAIR-CORRELATION FUNCTION IN DISORDERED BETA-BRASS AS STUDIED BY NEUTRON DIFFRACTION 67-05 M14-69806
ON THE SUPERSTRUCTURES OF TA2O5 AND NB2O5 67-06 M13-70985
STRUCTURE OF THE PARTIALLY ORDERED STATE OF A3B ALLOYS 67-06 M13-72365
STUDY OF ORDERING IN TERNARY SYSTEM ALLOYS 67-06 M14-70285
MOSSBAUER EFFECT STUDY OF BCC STRUCTURE ALLOYS, FEAL AND FETI 67-06 M15-70418
STUDY OF THE EFFECTS OF ATOMIC ORDERING IN TERNARY SOLID SOLUTIONS --NI3FE, MN-- 67-06 M17-72374
TERNARY COMPOUNDS WITH A SUPERLATTICE OF THMN12 TYPE IN THE YTTRIUM-TRANSITION METAL-ALUMINUM SYSTEMS 67-07 M13-73480
ANTIPHASE BOUNDARIES AND DOMAINS 67-07 M13-73674
NEUTRON DIFFRACTION DETERMINATION OF THE STRUCTURE OF TI-FE AND TI-CO ALLOYS 67-08 M13-74646
BEHAVIOR OF PASSING DISLOCATIONS IN SUPERLATTICES 67-09 M13-77440
STUDY OF STRUCTURAL SINGULARITIES OF ALLOYS WITH FACE-CENTERED LATTICE. PT. 1. NI-MO SYSTEM 67-09 M13-77771
LOW-ENERGY ELECTRON DIFFRACTION STUDY OF SURFACES OF ANTIMONY AND BISMUTH 67-10 M13-79547
NEW PEROWSKIT-CARBIDES 67-10 M13-79582
MULTICOMPONENT SUPERLATTICES OF VARIABLE COMPOSITION IN NI3FE AND NI3MN-BASE MAGNETIC ALLOYS 67-10 M13-79915
NEUTRON DIFFRACTION ANALYSIS OF FE-CO ATOMIC FERROMAGNETIC SUPERLATTICES 67-10 M13-79916
THERMALLY ORDERED OXYGEN ON A NICKEL SURFACE 67-10 M14-79572
STUDY OF PHASE DIFFUSION IN THE NICKEL-GOLD SYSTEM DURING ISOTHERMAL ANNEALING 67-10 M14-79911
REMARKS ON THE STRUCTURE OF MARTENSITES IN CU-AL ALLOYS 67-11 M13-81269
THE PROCESS OF ESTABLISHING ORDER DURING ISOTHERMAL ANNEALS IN NI-SI --7 AT.PER CENT SI-- ALLOY 67-11 M14-80737
ORDERING AND DISLOCATION PAIRS IN AN FE-6.0 WT PER CENT SI ALLOY 67-11 M14-81357
THE MAGNETIC AND CRYSTALLOGRAPHIC PROPERTIES OF MNBI STUDIED BY NEUTRON DIFFRACTION 67-12 M15-83489
SUPERLATTICES, COMPOSITION EFFECTS
ON THE NATURE OF THE K-STATE IN THE SYSTEM OF IRON AND ALUMINIUM 67-06 M14-70785
SUPERLATTICES, HEATING EFFECTS
OBSERVATIONS OF SUBSTRUCTURES IN EXPLOSIVELY DEFORMED AND ANNEALED BETA BRASS 67-06 M14-69938
SUPERLATTICES, STRESS EFFECTS
CORRELATION OF LOCAL ORDER WITH MECHANICAL PROPERTIES 67-08 M14-75341
SUPERLATTICES, TEMPERATURE EFFECTS
X-RAY MEASUREMENT OF ORDER IN CUAU2 67-05 M14-69756
TEMPERATURE DEPENDENCE OF SHORT-RANGE ORDER IN BETA-BRASS 67-05 M14-69807
LONG-RANGE ORDER AND CRITICAL SCATTERING OF NEUTRONS BELOW THE TRANSITION TEMPERATURE IN BETA-BRASS 67-05 M14-69808
SUPERPLASTICITY
SUPERPLASTIC BEHAVIOR OF A SOLID-SOLUTION SN-1 PER CENT BI ALLOY 67-03 M17-65096
SUPERPLASTICITY AND LOW-TEMPERATURE DUCTILITY IN A CR-30 AT. PER CENT CO ALLOY 67-03 M17-65099
SUPERPLASTICITY IN THE NI-FE-CR SYSTEM 67-06 M17-71073
AN INTERPRETATION OF THE SUPERPLASTICITY PHENOMENON IN TWO-PHASE ALLOYS 67-06 M17-71075
THE ORIGIN OF SUPERPLASTICITY IN THE SN-5 PER CENT BI ALLOY 67-06 M17-71957
SUPERPLASTICITY--FUNDAMENTAL ASPECTS AND POSSIBLE INDUSTRIAL APPLICATIONS 67-09 M17-78296
HOT ROLLING OF LEAD CONTAINING BRASSES 67-11 M07-80370
SUPERPLASTICITY IN SOME TITANIUM AND ZIRCONIUM ALLOYS 67-12 M17-82728
RATE-SENSITIVE DEFORMATION IN TIN-LEAD ALLOYS 67-12 M17-82970
SUPERPLASTICITY IN ELECTROPLATED COMPOSITES OF LEAD AND TIN 67-12 M17-83053
SUPERSATURATION
HYDROGEN SOLUBILITY IN ZIRCONIUM ALLOYS 67-02 M14-59019
A SURVEY OF DECOMPOSITION PROCESSES IN SUPERSATURATED FE-27 AT. PER CENT BE 67-03 M14-65083
CONDITIONS CONTROLLING MATRIX AND STACKING FAULT PRECIPITATION 67-04 M14-66548
A STUDY OF NITROGEN IN A CHROMIUM-YTTRIUM ALLOY 67-06 M14-71606
NUCLEATION OF OXIDE PARTICLES DURING SOLIDIFICATION 67-08 M14-75315
SUPERSATURATION, TEMPERATURE EFFECTS
THE TERMINAL SOLUBILITY OF HYDROGEN IN ZIRCONIUM ALLOYS BETWEEN 30 AND 400 C 67-05 M14-69562
SUPERSONIC AIRCRAFT
SEE SUPERSONIC PLANES
SUPERSONIC NOZZLES
SEE NOZZLES
SUPERSONIC PLANES
DEVELOPMENT TRENDS FOR THE USE OF STEEL SHEETS AND STEEL FOIL AS STRUCTURAL MATERIALS FOR SUPERSONIC AIRCRAFT AS SHOWN IN THE XB-70A OF NORTH AMERICAN AVIATION INC 67-01 M20-58113
EXOTHERMICALLY BRAZED HYDRAULIC FITTINGS FOR AIRCRAFT 67-04 M11-67625
UNIQUE TESTING TECHNIQUES FOR DEVELOPING DESIGN CRITERIA FOR THE SST 67-06 M17-70129
TITANIUM.. METAL WITH UNIQUE PROPERTIES 67-06 M20-70841
APPLICATIONS OF TITANIUM IN SUPERSONIC AIRCRAFT 67-12 M20-82301
SUPERSONIC PLANES, MATERIALS
LOCKHEED REFINES TITANIUM FORMING 67-03 M07-65408
TITANIUM ALLOYS LOOK BEST FOR MACH 3 TRANSPORT AIRCRAFT 67-03 M17-65489
BOEING PUSHES TITANIUM AIRFRAME EFFORT 67-06 M20-70603
SUPERSTRUCTURES
CORRUGATED PANEL FOR SHIPS WALL 67-12 M20-82921
SUPERSTRUCTURES, WELDING
MEASURES TO REDUCE DEFORMATIONS TAKING PLACE IN SHEET METAL SHIP SUPERSTRUCTURES DURING WELDING 67-01 M11-57159
SUPPORTS, WELDING
THE FEASIBILITY OF OMITTING A HIGH TEMPER IN THE PRODUCTION OF UNIT MACHINE BEDPLATES 67-05 M11-69404
DISPENSING WITH THE HIGH TEMPERATURE TEMPERING OF HOUSING BEDS FOR STANDARD CUTTING MACHINES 67-10 M11-78508
SURFACE ACTIVATION
THE GALVANIZING OF SINTERED MATERIALS 67-08 M12-75639
A MORE UNIFORM, MORE ADHERENT PLATE ON ZINC 67-09 M12-78173
REAL STRUCTURE AND REACTIVITY OF SILICON SINGLE CRYSTALS 67-09 M13-76775
SURFACE ACTIVATION IN THE HEAT TREATMENT OF METALS 67-12 M10-81938
SURFACE ANALYZERS
THE MEASUREMENT OF SURFACE FINISH 67-03 M19-65148
STATISTICAL ANALYSIS OF SURFACE ROUGHNESS WAVEFORMS 67-06 M19-71805
KRYPTONATES.. A NEW TECHNIQUE FOR THE DETECTION OF

WEAR 67-07 M19-74027
THE MEASUREMENT OF SURFACE ROUGHNESS AND PROFILES ON METALS 67-10 M19-78556
SURFACE AREA
SEE AREA
SURFACE CHEMISTRY
NUCLEATION IN SURFACE CATALYZED CHEMICAL VAPOR DEPOSITION --CVD-- 67-04 M12-67744
ADSORPTION OF CO ON A TUNGSTEN --100-- SURFACE 67-04 M14-67432
INVESTIGATION OF SURFACE REACTIONS BY LOW ENERGY ELECTRON DIFFRACTION --LEED-- 67-04 M14-67743
PASSIVATION AND CORROSION OF STAINLESS STEELS 67-09 M18-76491
PLATINUM OXIDATION KINETICS WITH CONVECTIVE DIFFUSION AND SURFACE REACTION 67-09 M18-76622
SURFACE CLEANING
SEE CLEANING
SURFACE COATINGS
SEE ALSO COATINGS
SURFACE COATINGS, CORROSION
COATING OF BOLTS TO PREVENT SEIZURE 67-03 M18-65986
SURFACE DEFECTS
SEE ALSO SCABS /DEFECTS/
DISLOCATION STRUCTURES IN CLEAVED MAGNESIUM OXIDE 67-01 M13-57123
EFFECT OF THE HARDNESS ON THE DAMAGES DUE TO ROLLING CONTACT OF BACK-UP ROLL MATERIALS 67-01 M17-57514
ON THE CONTROL OF SOLID SKIN IN A RIMMED STEEL INGOT 67-02 M04-58843
A NEW SYSTEM FOR QUALITY CONTROL 67-02 M07-59009
WELDING OF FLAKE DEFECTS DURING SECONDARY FORGING 67-02 M07-60674
THE EFFECT OF TEMPERATURE AND DEGREE OF WORKING ON THE STRUCTURE OF HOT ROLLED AND EXTRUDED ALUMINUM 67-02 M13-59127
INFLUENCE OF THE VARIOUS FACTORS AFFECTING THE APPEARANCE OF ANODIZED SHEET CAPABLE OF CAUSING THE CHECKERBOARD EFFECT 67-02 M13-60659
NONDESTRUCTIVE MATERIAL TESTING IN THE PRODUCTION OF FUEL ELEMENTS 67-02 M16-60022
SURFACE CONDITION AND FATIGUE OF WIRE ROPE 67-02 M17-60586
THE INDENTATION OF SCALE AND BASE METAL IN LOW-ALLOYED STEELS 67-02 M18-62012
FINISHING DEPARTMENT INSPECTION OF ROLLED PRODUCTS 67-02 M19-62070
WHAT TO LOOK FOR IN SPRING WIRE 67-03 M17-65978
CONTINUOUS CASTING OF TUBE STEEL 67-04 M04-66735
CONTROL OF LUDERS MARKINGS ON MILD STEEL STRIP BY ROLLER-FLEXING UNDER TENSION 67-04 M07-67419
IMPROVING THE PRODUCTIVITY OF METAL FLAME SCARFING 67-04 M08-66619
TESTING COMMERCIAL LUBRICANTS FOR TENDENCY TOWARDS CARBON FORMATION DURING ANNEALING OF ALUMINUM SHEETS 67-04 M10-66979
ANODIZING OF ALUMINIUM ALLOYS--METALLURGICAL STRUCTURE FACTORS 67-04 M13-67788
DEFECTS IN THE HEAT TREATMENT OF COLD ROLLED STEEL STRIP. PT. 1. DEFECT OF ANNEALED LOW-CARBON STEEL STRIP 67-05 M10-69076
TRAVELING SOLVENT DEFECTS ON SILICON WAFERS 67-05 M14-68631
OPTIMUM CONDITIONS FOR HEATING INGOTS OF STAINLESS STEEL WITH 13 PER CENT CHROMIUM 67-06 M10-70101
SELECTING EQUIPMENT FOR STRUCTURAL ANNEALING OF BALL BEARING STEEL 67-06 M10-71261
CAUSES FOR THE FORMATION OF CRUST ON THE ROLLERS OF TOWER-TYPE FURNACES DURING HEAT TREATMENT OF STEEL STRIP 67-06 M10-71263
THE MECHANISM OF RIDGING IN FERRITIC STAINLESS STEELS 67-06 M13-71077
STRUCTURE AND PROPERTIES OF SLURRY-LIKE TITANIUM 67-07 M03-73418
SURFACE DEFECTS OF A STAINLESS STEEL INGOT 67-07 M04-74145
STATE OF THE SURFACE LAYER OF QUENCHED SHKH15 STEEL AFTER TURNING 67-07 M08-74288
THE AUTOMATION OF THE CONTINUOUS NONDESTRUCTIVE TESTING OF HOT ROLLED PRODUCTS 67-07 M19-72713
DEVELOPMENT OF SURFACE DEFECTS DURING THE HOT ROLLING OF 5.5 MM STEEL WIRE RODS AND THEIR EFFECT ON WIRE PROCESSING 67-08 M07-75073
SELECTION OF EQUIPMENT FOR STRUCTURAL ANNEALING OF BALL-BEARING STEEL 67-08 M10-75730
FORMATION OF DEPOSITS ON ROLLERS OF TOWER FURNACES DURING HEAT TREATMENT OF STEEL STRIP 67-08 M10-75732
ROOM AND ELEVATED TEMPERATURE STRENGTH OF ALPHA-AL2O3 WHISKERS AND THEIR STRUCTURAL CHARACTERISTICS 67-08 M17-76141
STUDIES OF THE BLISTERS ON THE PLATED SURFACE OF ZINC ALLOY DIE CASTINGS 67-08 M18-74923
EFFECT OF PROCESS TECHNOLOGY ON THE PRECISION CASTING OF HEAT RESISTANT CASTING ALLOYS IN VACUUM 67-09 M06-77006
PERIODIC SURFACE FINISH AND TORQUE EFFECTS DURING COLD STRIP ROLLING 67-09 M07-77511
PRODUCTION PROBLEMS INHERENT TO SURFACE CONDITIONS OF LOW-CARBON STEEL SHEET USED FOR DEEP DRAWING 67-09 M08-78004
MAGNETIC BILLET CLASSIFIER 67-09 M19-76471
NON-DESTRUCTIVE TESTING FOR INVESTMENT CASTINGS 67-09 M19-78279
OBSERVATIONS OF THE EFFECT ON SURFACES OF EROSION AND CAVITATION 67-10 M18-78466
SURFACE DEFECTS IN MALLEABLE CAST IRONS 67-10 M19-78726
SURFACE DEFECTS, COMPOSITION EFFECTS
MECHANICAL PROPERTIES, TEXTURE AND FIBROUS APPEARANCE OF 17 PER CENT CR STAINLESS STEELS AS A FUNCTION OF THEIR PROCESSING CONDITIONS 67-01 M17-57606
TRANSVERSE AND LONGITUDINAL CRACKS IN BASIC OPENHEARTH BLOOMS 67-02 M04-60828
SURFACE DEFECTS, HEATING EFFECTS
DEFECTS IN THE SURFACE HARDENING OF MACHINE PARTS--THEIR CAUSES AND PREVENTION 67-07 M10-72606
SURFACE DEFECTS, IMPURITY EFFECTS
THE FISH-SCALING OF ENAMELED SHEET 67-02 M12-60023
PORE FORMATION DURING CREEP 67-02 M14-62087
EFFECT OF SILICON ON SURFACE PROPERTIES OF 18-8 STAINLESS STEEL SHEETS 67-09 M04-78010
SURFACE DEFECTS, STRESS EFFECTS
EARING AND TEXTURE ON NICKEL AND NICKEL ALLOYS 67-02 M14-60874
INFLUENCE OF SURFACE DEFECTS ON THE MECHANICAL PROPERTIES OF THIN-WALLED TUBING OF 304 STAINLESS STEEL 67-02 M17-61963
SURFACE FRACTURES ON COLD-WORKING ROLLS, THEIR FORMATION AND AN INTERPRETATION OF THEIR CAUSES 67-04 M17-67411
SURFACE DIFFUSION
SEE DIFFUSION
SURFACE ENERGY
DETERMINATION OF ANISOTROPY AND SURFACE ENERGY OF THE FACE CENTERED CUBIC METALS NICKEL, GOLD AND SILVER 67-02 M15-59908
THE ENCOUNTER MECHANISM IN GRAIN GROWTH 67-03 M14-65005
RELATIVE INTERFACIAL ENERGIES IN FE-C ALLOYS 67-04 M15-66049
DETERMINING THE TRUE SURFACE VALUE OF ZN, CD AND MG VACUUM CONDENSATES IN THE PROCESS OF OXIDATION 67-04 M18-67654
THE SURFACE ENERGY OF IRON-3 PER CENT SILICON BY SURFACE-RELAXATION MEASUREMENTS 67-05 M14-68691
DETERMINATION OF THE ANTIPHASE DOMAIN SURFACE ENERGY OF COHERENT ORDERED PRECIPITATES IN THE ABSENCE OF INTERFACE STRESSES AND CHEMICAL INTERACTIONS 67-05 M15-69334
WETTING OF SOLID-METAL SURFACES BY MOLTEN METALS 67-05 M15-69561
ON THE MAGNITUDE OF THE SOLID/LIQUID INTERFACIAL ENERGY OF PURE METALS AND ITS RELATION TO GRAIN BOUNDARY MELTING 67-06 M14-72222
A THEORETICAL FRACTURE CRITERION AND CLEAVAGE IN ZINC 67-06 M17-70634
SOME GENERAL ASPECTS OF INTERFACES IN COMPOSITES 67-07 M09-73354
INTERFACIAL INVESTIGATIONS OF BORON FIBER-REINFORCED PLASTICS 67-07 M09-73355
ON CRYSTAL GROWTH DISTANT FROM PHASE EQUILIBRIUM CONDITIONS 67-07 M13-73855
CALCULATION OF THE SPECIFIC SURFACE ENERGIES OF CRYSTAL PLANES BY INVESTIGATING THE ORIENTATION OF CRYSTAL NUCLEI ON INERT SUBSTRATES

67-07 M15-72951
THE INFLUENCE OF THE OXYGEN ADSORPTION ON THE SURFACE ENERGY OF FCC NICKEL AND BCC SILICON IRON
67-07 M15-73927
DRIVING FORCES OF SECONDARY RECRYSTALLIZATION
67-08 M14-75267
INTERFACIAL SEGREGATION OF NITROGEN IN IRON
67-08 M14-75579
CALCULATING THE SURFACE ENERGY OF METALS WITH A BODY-CENTERED LATTICE 67-08 M15-74625
SURFACE DISTORTION IN FACE-CENTERED CUBIC SOLIDS
67-08 M16-75383
DISPERSION ENERGIES AND SURFACE TENSIONS OF NOBLE METALS 67-08 M16-75384
ANISOTROPY OF GRAIN BOUNDARY ENERGY AND ITS INFLUENCE ON BOUNDARY MORPHOLOGY IN SHEET
67-09 M13-77600
SOLID-SOLID INTERFACIAL ENERGY DETERMINATIONS IN METAL-CERAMIC SYSTEMS 67-10 M15-78914

SURFACE ENERGY, ANISOTROPY
VARIATION IN SURFACE ENERGY AS A FUNCTION OF THE CRYSTALLOGRAPHIC ORIENTATION IN SILICON IRON SINGLE CRYSTALS 67-04 M16-67656

SURFACE ENERGY, TEMPERATURE EFFECTS
THE TEMPERATURE DEPENDENCE OF THE SURFACE ENERGY ANISOTROPY OF PLATINUM 67-03 M15-65808
THE SURFACE ENERGY OF IRON-3 PER CENT SILICON BY SURFACE-RELAXATION MEASUREMENTS
67-08 M14-76206

SURFACE FINISH
THE INFLUENCE OF ULTRASONIC VIBRATIONS ON THE SURFACE OF MACHINED WORKPIECES, WITH SPECIAL REFERENCE TO THE MACHINING OF ALUMINUM
67-01 M08-58221
THERMAL CUTTING--PROBLEMS, TRENDS AND ACHIEVEMENTS
67-01 M08-58400
ULTRASONIC ASSISTANCE TO CONVENTIONAL METAL REMOVAL 67-01 M08-58519
APPLICATIONS AND LIMITS OF THE BROACHING TECHNIQUE AT HIGH-CUTTING RATES 67-02 M08-59618
SOME FACTORS AFFECTING SURFACE FINISH IN GRINDING
67-02 M08-60999
OPTICAL SURFACE ROUGHNESS MEASURING METHODS
67-02 M19-59997
SYNTHETIC DIAMONDS AND THEIR APPLICATIONS IN MODERN SOVIET INDUSTRY 67-03 M08-65161
WHERE TO USE EDM AND ECM TO BOOST YOUR SHOP PROFITS
67-03 M08-65398
RELATIONSHIP BETWEEN CUTTING FORCES, TEMPERATURES, BUILT-UP EDGE AND SURFACE FINISH
67-03 M08-65992
THE MEASUREMENT OF SURFACE FINISH
67-03 M19-65148
CONSIDERATIONS RELATING TO THE QUALITY OF THE FLAME CUT SURFACE OF STEEL PLATE
67-04 M08-66726
LAPPING SPOT FACES ON AIR BEARING END PLATES
67-04 M08-67764
FINE BLANKING REPLACES SIX STAMPING OPERATIONS
67-04 M08-68117
ELECTRODEPOSITION OF ALLOYS FROM THE SULFAMATE BATH --NICKEL-CHROMIUM AND COBALT-ZINC
67-04 M12-67428
SATIN FINISHES FOR DIE CASTINGS NOW STANDARDIZED
67-04 M12-68134
STUDY ON ELECTROLYTIC MACHINING PROCESS. PT. 7. THE EFFECTS OF THE CHANGE OF WORK MATERIAL ON THE SURFACE FINISH OF PRODUCTS MACHINED BY DIRECT CURRENT 67-05 M08-68903
THE EFFECT OF THE UNDERLYING METAL ON THE INTERNAL STRESS AND FORMATION OF MICROCRACKS IN ELECTRODEPOSITED CHROMIUM 67-05 M12-68822
REDUCING DEFECTS IN STEEL SHEETS
67-06 M07-72253
DIELECTRICS, ELECTRODES--THEIR EFFECT ON EDM MACHINING 67-06 M08-71448
INVESTIGATIONS ON THE CUTTING POWER AND SURFACE QUALITY IN THE INTERNAL BROACHING OF STEEL
67-06 M08-71804
COMPARATIVE STUDY OF TOOL WEAR AND THE ROUGHNESS OF THE MACHINED SURFACE. PT. 3 67-06 M08-71806
NEW POLISHING MATERIALS FOR PROCESSING OF SINGLE CRYSTALS 67-06 M12-72324
STATISTICAL ANALYSIS OF SURFACE ROUGHNESS WAVEFORMS
67-06 M19-71805
SURFACE ROUGHNESS FORMATION IN METAL CUTTING
67-06 M19-72147
CARBIDES FOR SCREW MACHINES--TESTS ON FREE-CUTTING STEELS. PT. 2 67-07 M08-72744
PURPOSES AND ATTRIBUTES OF METALWORKING LUBRICANTS
67-07 M08-73692
QUALITY OF THE SURFACE LAYER WHEN GRINDING WITH A DIAMOND WHEEL WITH A BAKELITE BINDER
67-07 M08-74287
THE EFFECT OF SURFACE TREATMENT ON THE QUANTITY OF ELECTRONS ABSORBED BY THE SPECIMEN
67-07 M15-73730
INFLUENCE OF THE POURING TEMPERATURE ON THE SURFACE FINISH OF STEEL CASTINGS POURED IN SILICATE-BONDED MOULDS 67-08 M06-74540
CORROSION RESISTANT STEELS, ESPECIALLY FOR COLD ROLLED SHEET AND STRIP APPLICATIONS
67-08 M17-76290
RELATIONSHIP BETWEEN CUTTING GEOMETRY, TOOL WEAR AND SURFACE QUALITY IN THE PEELING OF STEEL BARS WITH CARBIDE TOOLS. PT. 4. DETERMINATION OF THE MOST FAVORABLE GEOMETRY OF THE CUTTING EDGE OF HARD METAL PEELING TOOLS AND EFFECT OF THE PEELING TOOL WEAR ON THE SURFACE FINISH OF BRIGHT STEEL BARS 67-09 M08-78283
BASIC INVESTIGATION OF BUILT-UP EDGE
67-10 M08-79880
NICKEL PLATING BY CHEMICAL REDUCTION
67-11 M12-80578
PRACTICAL PROBLEMS IN COPPER CYANIDE PLATING. PT. 2 67-11 M12-80665
INFLUENCE OF THE EDGE EFFECT ON THE TEXTURE OF COPPER DEPOSITS 67-11 M12-80729
COLD DEFORMATION OF STAINLESS STEEL UNDER CERTAIN CONDITIONS OF SURFACE QUALITY
67-12 M07-83293
STUDY ON ELECTROLYTIC MACHINING PROCESS. PT. 11. EFFECT OF INHIBITOR IN SODIUM CHLORIDE SOLUTION ON THE SURFACE FINISH OF WORK MACHINED BY A SINGLE-PHASE HALF-WAVE RECTIFICATION CURRENT
67-12 M08-83224
THE SIGNIFICANCE OF SURFACE PROPORTIONAL BEARING CURVES IN THE CHARACTERIZATION OF MACHINED AND DEFORMED SURFACES 67-12 M12-82942
ELECTROLESS COBALT PLATING WITH HYDRAZINE AS REDUCING AGENT. PT. 6. STUDIES ON ELECTROLESS PLATING OF COBALT AND ITS ALLOYS
67-12 M12-83510
ROUGHNESS OF FINISHED SURFACE IN GRINDING OPERATION OF HARDENED STEEL 67-12 M12-83600

SURFACE FINISH, IMPURITY EFFECTS
THE FISH-SCALING OF ENAMELED SHEET
67-02 M12-60023

SURFACE FINISH, MACHINING
INVESTIGATION OF THE POLISHING CAPACITY OF REFRACTORY COMPOUNDS 67-06 M09-71464

SURFACE FINISH, QUALITY CONTROL
MICROLOCAL MAGNETOGRAPHIC INSPECTION OF POLISHED SURFACES OF STEEL PIECES 67-04 M19-67087

SURFACE FINISH, WELDING EFFECTS
SPECIFY SURFACE FINISH, RESISTANCE WELDS IMPROVE
67-03 M11-65359

SURFACE FINISHING
SEE ALSO ABRASIVE BLASTING
BARREL FINISHING
BARREL TUMBLING
BRIGHT FINISHING
BUFFING
BURNISHING
CALENDERING
CHEMICAL POLISHING
DESCALING
DIAMOND BURNISHING
ELECTROPOLISHING
FLAME CLEANING
GRIT BLAST CLEANING
GRIT BLASTING
MECHANICAL CLEANING
MECHANICAL FINISHING
MECHANICAL POLISHING
METAL FINISHING
METAL POLISHING
PEENING
PLANISHING
POLISHING
ROLL BURNISHING
ROLLER BURNISHING
SANDBLASTING
SHOT BLASTING
SHOT PEENING
WIRE BRUSHING
SMOOTH ROLLING AND ITS APPLICATION IN MODERN PRODUCTION 67-01 M08-58715

SUPERFINISHING PIECES MADE FROM ALLOY STEELS
67-01 M12-57333
PRACTICAL TECHNIQUES FOR EFFICIENT LUBRICATION USING FRICTION-RESISTANT LACQUERS
67-01 M12-58386
AUTOMATED DEBURRING SYSTEM SPEEDS PRODUCTION OF POWDER METAL PARTS 67-01 M12-58549
ELECTROLYTIC POLISHING AND DEBURRING
67-01 M12-58611
X-RAY STUDY OF SOME THIN NICKEL ELECTRODEPOSITS
67-01 M14-57493
ABRASIVE BLASTING--NEW EQUIPMENT MEANS NEW APPLICATIONS 67-02 M12-59015
DEBURRING AND SURFACE FINISHING
67-03 M12-65725
MACHINING WITHOUT VIBRATION 67-05 M08-68309
SOME WAYS OF IMPROVING THE SURFACE QUALITY OF COLD ROLLED SHEET 67-05 M08-68327
THE HEAT AND SURFACE TREATMENT OF STEEL FOR CASTING DIES 67-05 M10-69356
PANGBORN VIBRATORY MACHINES TO BE MADE HERE
67-05 M12-68900
FINISHING BETTER GEARS AT LOWER COST
67-06 M08-70238
BURNSIDE STEEL MARKS A HALF CENTURY OF PROGRESS
67-06 M08-70588
INSPECTING AND DESEAMING BILLETS
67-06 M08-71742
HOW TO PREPARE THE SURFACE OF METALS AND NONMETALS FOR ADHESIVE BONDING 67-06 M12-70030
IMPROVING SURFACE QUALITY OF COLD-ROLLED SHEET
67-07 M08-72855
PRECISION FINISHING OF FERRITE AND CERAMIC MAGNETIC COMPONENTS 67-07 M08-73830
INCREASED PRODUCTION IN GRINDING THROUGH HIGH CUTTING SPEEDS 67-08 M08-75592
DEVELOPMENTS IN PRETREATMENT AND FINISHING OF ZINC-COATED PRODUCTS 67-08 M12-74396
TWO PAGES OF REPRODUCIBLE DATA TABLES--PROTECTIVE FINISHES 67-08 M12-74602
ACTUAL RESEARCH IN THE FIELD OF SURFACE FINISHING
67-09 M08-78017
VIBRATORY FIXTURE PROCESSING 67-09 M12-77187
EFFECT OF SPECIMEN SURFACE PREPERATION ON THE ACCURACY OF X-RAY FLUORESCENCE ANALYSIS OF LEADED COPPER ALLOYS 67-09 M13-76676
INFLUENCE OF SURFACE TREATMENT ON THE OXIDATION KINETICS OF CALCIUM 67-09 M14-76457
SURFACE CONFIGURATION AND DETERMINATION OF OPTIMUM WORKING CONDITIONS IN ELECTROCHEMICAL MACHINING 67-10 M08-78659
SURFACE INTEGRITY IN MACHINING AND GRINDING
67-10 M08-79515
ABRASIVE BLASTING--WET AND DRY 67-10 M12-78524
VIBRATORY FINISHING FOR AUTOMATED PRODUCTION
67-10 M12-78793
DEVELOPMENTS IN POLISHING AND BUFFING
67-10 M12-79002
FINE FINISHING--THE DEVELOPMENT FROM HAND OPERATIONS TO VIBRATORY METHODS
67-10 M12-79191
NEW DEVELOPMENTS IN NICKEL PLATING. MULTILAYER COATINGS 67-10 M12-79395
ABRASION AND POLISHING OF TUBES AND RODS
67-10 M12-79397
FINISHES MAKE THE PRODUCT 67-10 M12-79761
DESIGN PRECEPTS FOR QUALITY PLATING
67-10 M12-79990
CHEMICAL SURFACE TREATMENTS 67-10 M18-80100
ABRASIVE BLASTING 67-12 M12-82518
TREATMENT OF METAL SURFACES IN THE AERONAUTICS INDUSTRY 67-12 M12-83381
INFLUENCE OF SURFACE TREATMENT ON THE INITIAL STAGES OF OXIDATION OF A 20 PER CENT CR-35 PER CENT NI STAINLESS STEEL 67-12 M18-83217

SURFACE FINISHING, STANDARDS
AUSTRALIAN STANDARDS OF SURFACE PREPARATION
67-10 M19-80099

SURFACE FINISHING, ULTRASONICS
THE TREATMENT AND WORKING OF METALLIC SURFACES IN ULTRASONICALLY AGITATED BATHS
67-10 M12-79881

SURFACE GRINDING
SEMI-AUTOMATIC PREPARATION OF ULTRA-THIN AND LARGE-AREA PETROLOGICAL SECTIONS 67-03 M05-65673
ON THE MECHANICAL POLISHING OF AL AND AL ALLOYS. PT. 2. ON THE SURFACE GRINDING OPERATION OF AL
67-05 M08-68890
THE EFFECT OF TOOLS AND WORKING CONDITIONS ON THE BOUNDARY ZONES OF HARDENED STEELS AND CARBIDES WITH CONVENTIONAL AND ELECTROLYTIC GRINDING
67-06 M08-70045
RESEARCHES ON BARREL FINISHING 67-06 M08-70606
PLUNGE CUT GRINDING OF TUNGSTEN CARBIDE WITH DIAMOND CUP WHEELS 67-06 M08-71184
RULES FOR SURFACE GRINDING 67-06 M08-71672
WANT FLAT PARTS FASTER. UPGRADE, CUT COSTS WITH GRINDING 67-08 M08-74724
PERFORMANCE TEST FOR SURFACE GRINDING WHEELS. PT. 3. GRINDING OF STAINLESS STEELS
67-08 M08-75591
THE INFLUENCE OF GRINDING ON WORKPIECE TECHNOLOGY
67-10 M08-78898
FOUR RULES FOR BETTER SURFACE GRINDING PRODUCTIVITY
67-10 M08-78900

SURFACE HARDENING
SEE ALSO BORIDING
CARBONITRIDING
CARBURIZING
CASE HARDENING
CYANIDING
EXPLOSIVE HARDENING
FLAME HARDENING
GAS CARBURIZING
NITRIDING
PACK CARBURIZING
SHOT PEENING
SPARK HARDENING
SULFIDIZATION
TUFFTRIDING
HIGH-TEMPERATURE SURFACE AUSROLLING --ON AN EXAMPLE OF 9KH STEEL-- 67-01 M10-57633
IMPROVING THE WEAR RESISTANCE OF PUNCHES BY ULTRASONIC WORK HARDENING 67-01 M17-57334
CAVITATION ATTACK IN BUILT-UP METAL
67-01 M17-58205
MORE PRODUCTION THROUGH MODERNIZATION
67-02 M10-61102
METHOD OF ELECTRIC INDUCTION INSPECTION OF THE DEPTH OF SURFACE HARDENING IN GEAR TEETH
67-02 M19-59554
FRICTION HARDENING GIVES SUPERHARD STEELS
67-03 M10-65479
SELECTION OF THE HEATING TEMPERATURE OF STEEL FOR SURFACE HARDENING 67-05 M10-69274
NEW DEVELOPMENT IN THE FIELD OF SURFACE HARDENING
67-05 M10-69321
SURFACE HARDENING OF REINFORCING STEEL
67-06 M10-70928
HEAT TREATMENTS AND THEIR EFFECTS ON FATIGUE STRENGTH OF PARTS 67-06 M10-72145
DEFECTS IN THE SURFACE HARDENING OF MACHINE PARTS--THEIR CAUSES AND PREVENTION 67-07 M10-72606
HEAT TREATMENTS OF TITANIUM AND ITS ALLOYS
67-08 M10-74749
SURFACE QUENCHING AFTER BULK INDUCTION HEATING--A PROMISING METHOD OF HEAT TREATING STEEL
67-08 M10-74971
FINE CRYSTAL STRUCTURE OF THE SURFACE LAYER OF STEEL HARDENED WITH ROLLERS 67-08 M13-76004
INFLUENCE OF RESIDUAL STRESSES ON PLASTIC DEFORMATION DURING CYCLIC STRESSING OF MACHINE PARTS 67-08 M17-76003
WEAR RESISTANCE OF NO. 45 STEEL QUENCHED AFTER HEATING IN AN ELECTROLYTE 67-08 M17-76043
DEVELOPMENT TENDENCIES IN THE SURFACE HARDENING OF GEARS 67-10 M10-79791
INFLUENCE OF SURFACE HARDENING ON MICROHARDNESS OF HARD SURFACED PARTS 67-10 M17-78408
THE FIGHT AGAINST WEAR--INTERNAL COMBUSTION ENGINS
67-11 M20-81257

SURFACE HARDENING, AUTOMATION
SUPERFICIAL HARDENING WITH BLOW-PIPES
67-08 M10-74747

SURFACE HARDNESS
CHROMIUM-MOLYBDENUM NITRIDING STEELS WITH 2.5/3.5 PER CENT CR 67-06 M17-70037
ELECTROLESS NICKEL DEPOSITED AT CONTROLLED PH--MECHANICAL PROPERTIES AS A FUNCTION OF PHOSPHORUS CONTENT 67-07 M12-74122
MICROSTRUCTURAL CHANGES IN SURFACE LAYERS OF MACHINED MATERIALS. IN PARTICULAR, A CONTRIBUTION TO THE STUDY OF THE MORPHOLOGY OF THE WHITE LAYERS 67-08 M14-75572
NONDESTRUCTIVE TEST OF THE SURFACE HARDNESS OF CASE HARDENED SPECIMENS AT CONSTANT CARBURIZING DEPTH 67-09 M17-77481
EFFECT OF REPETITION ON GAS NITRIDING CYCLES ON

SURFACE HARDNESS
THREE TYPES OF STEEL 67-12 M10-83567
SURFACE PROPERTIES
SEE ALSO EMISSIVITY
REFLECTIVITY
ROUGHNESS
SURFACE FINISH
SURFACE RESISTANCE
SURFACE RESISTIVITY
SURFACE TENSION
WETTABILITY
ACTION OF GASEOUS ENVIRONMENT IN METAL CUTTING--SURFACE ROUGHNESS AND TOOL FORCES WHEN MACHINING WITH OXYGEN JET 67-01 M08-57590
SURFACE AND GRAIN-BOUNDARY DIFFUSION OF GOLD-COPPER 67-01 M14-57104
DETERMINATION OF URANIUM SURFACE-CONCENTRATION OF COATED PARTICLES 67-01 M16-58232
SURFACE SELF-DIFFUSION AT HIGH TEMPERATURES 67-02 M14-59103
SELF-DIFFUSION ON NEARLY PURE METALLIC SURFACES 67-02 M14-59104
EFFECT OF SURFACES ON MECHANICAL BEHAVIOR OF METALS 67-02 M17-59105
QUALITY OF ALUMINUM-KILLED STEEL INGOTS 67-03 M04-65541
VAPOR LUBRICATION OF CARBON PISTON RINGS 67-03 M17-65597
LATTICE DEFECTS AND SURFACE PROPERTIES OF CLEAN GERMANIUM 67-04 M13-67738
DEPENDENCE OF ADSORPTION PROPERTIES ON SURFACE STRUCTURE FOR BODY-CENTERED-CUBIC SUBSTRATES 67-04 M16-67740
INVESTIGATION OF SURFACE CHANGES DURING FORWARD EXTRUSION 67-05 M07-68564
FIELD-EMISSION MICROSCOPY OF GERMANIUM 67-05 M13-69769
EFFECT OF A SURFACE OXIDE FILM ON THE ELECTROPHYSICAL SURFACE PROPERTIES OF GERMANIUM 67-05 M15-68573
INFLUENCE OF SURFACE BARRIERS ON THE PHOTOCONDUCTIVITY OF GERMANIUM 67-05 M16-69393
INVESTIGATION OF THE STRUCTURE OF SURFACE LAYERS OF G13 STEEL IN DIFFERENT FRICTION CONDITIONS 67-05 M17-69303
OPEN COIL ANNEALING OF STEEL SHEET FOR SINGLE-COAT VITREOUS ENAMEL 67-06 M07-70501
ADHESION OF NITRIDES TO STEEL AND SLAG 67-06 M15-70266
SURFACE IMPEDANCE IN THE SURFACE SUPERCONDUCTING STATE 67-06 M16-71791
NATURE OF THE A-C TRANSITION IN THE SUPERCONDUCTING SURFACE SHEATH IN PB-2 PER CENT IN 67-06 M16-71793
THE IDENTIFICATION OF SMALL QUANTITIES OF MATERIAL BY EXO ELECTRONS 67-06 M19-72143
STRUCTURE AND CONSTITUTION OF THE TIN-PLATE ALLOY LAYER 67-07 M12-73326
THE EFFECT OF HEAT TREATMENT ON SILICON NITRIDE LAYERS ON SILICON 67-07 M13-72942
INTERNAL AND EXTERNAL INTERFACES 67-07 M13-73676
THE SURFACE DAMAGE OF HIGH OUTPUT GALLIUM ARSENIDE LASERS 67-07 M16-72923
KINETIC STUDY OF HIGH-TEMPERATURE OXIDATION OF HF 67-08 M14-75295
MECHANICAL CHANGES IN THE SURFACE OF SPOT WELDED DEEPDRAWN STEEL 67-08 M17-74558
SURFACE PROPERTIES OF VARIOUS ELECTROLYTIC CHROMIC ACID TREATED STEEL SHEETS 67-09 M12-77334
MEASURING THE SURFACE FINISH. PT. 4 67-09 M19-76688
INFLUENCE OF A SUPERIMPOSED FILM ON THE ELECTRICAL CONDUCTIVITY OF THIN METAL FILMS 67-11 M15-81087
SPECIAL PROTECTION OF HIGHLY-HEAT RESISTANT MATERIALS 67-11 M18-80698
EPITAXIAL GROWTH OF VACUUM-EVAPORATED CO ON NACL. PT. 1. CONDITIONS LEADING TO EPITAXY 67-12 M14-82007
SURFACE PROPERTIES, COMPOSITION EFFECTS
INFLUENCE OF ANNEALING CONDITIONS OF COLD ROLLED STAINLESS STEEL --18-8-- IN OXIDIZING ATMOSPHERE UPON THE SURFACE CONTENT OF FE, CR, NI AND MN, AND UPON THE SCOURABILITY OF THE OXIDE 67-11 M18-80358
SURFACE PROPERTIES, RADIATION EFFECTS
SURFACE EFFECTS OF RADIATION ON SEMICONDUCTOR DEVICES 67-04 M16-66140
SURFACE BLISTERING OF METALS DUE TO LOW ENERGY HYDROGEN BOMBARDMENT 67-06 M16-70612
SURFACE RESISTANCE
THE EFFECT OF NONMETALLIC FILMS ON THE CONTACT RESISTANCE BETWEEN ELECTRICAL CONTACTS WHICH ARE ELECTROPLATED WITH SILVER 67-02 M12-59971
SURFACE RESISTIVITY
SURFACE CONDUCTIVITY ON DEGENERATE GERMANIUM 67-01 M16-57553
MEASUREMENT OF CRITICAL FIELD HC3 AND CRITICAL SURFACE CURRENT IN SUPERCONDUCTING V-TI ALLOYS UP TO 30 KOE 67-01 M16-57959
THE INFLUENCE OF SURFACE PREPARATION ON THE SURFACE RESISTIVITY OF SILICON 67-03 M15-65692
SURFACE STATES ON CLEAN SILICON 67-03 M16-65914
SEARCH FOR SURFACE SUPERCONDUCTIVITY INDUCED BY AN ELECTRIC FIELD 67-05 M16-69518
THE ROLE OF SURFACE TREATMENT IN THE FIELD EFFECT ANOMALY OF N-TYPE INSB AT HIGH MAGNETIC FIELDS 67-06 M15-71025
REFLECTANCE AND SURFACE CONDUCTIVITY OF ZINC OXIDE CRYSTALS 67-06 M16-70087
SURFACE CURRENTS IN TYPE 2 SUPERCONDUCTORS 67-06 M16-70467
CONDUCTIVITY AND FIELD EFFECT OF PURE SILICON CLEAVAGE SURFACES 67-06 M16-70993
SURFACE-STATE MODELS FOR CLEAN AND OXYGEN-COVERED GERMANIUM 67-06 M16-71024
ELECTRICAL CONDUCTIVITY OF SILICON OXIDE 67-06 M16-71026
EXPERIMENTAL STUDY OF SURFACE SUPERCONDUCTIVITY 67-07 M16-73634
CRITICAL SURFACE CURRENTS AND THE ANGULAR DEPENDENCE OF THE SURFACE CRITICAL FIELD OF A TYPE 2 SUPERCONDUCTOR 67-07 M16-74058
INFLUENCE OF MAGNETIC FIELD ON SURFACE FIELD-EFFECT IN GERMANIUM 67-08 M15-75079
MAGNETIC FIELD DEPENDENCE OF THE MICROWAVE SURFACE IMPEDANCE OF SUPERCONDUCTING TANTALUM 67-08 M16-74945
SURFACE RESISTIVITY, TEMPERATURE EFFECTS
TEMPERATURE EFFECT OF CONDUCTIVITY OF TELLURIUM FILMS IN A MODULATING ELECTRIC FIELD 67-04 M16-66181
SURFACE ROLLING
SEE SKIN PASS ROLLING
SURFACE ROUGHNESS
SEE ROUGHNESS
SURFACE TENSION
THE ESTIMATION OF THE SURFACE TENSION OF METAL OXIDES 67-01 M15-57425
LIQUID METALS. PT. 7. THE SURFACE TENSION OF LIQUID BISMUTH IN PURE AND IMPURE HYDROGEN, IN OTHER GASES AND IN VACUO 67-01 M15-58653
FUNDAMENTAL PHENOMENA IN THE MATERIALS SCIENCES. V 3. SURFACE PHENOMENA 67-02 M01-59101
APPLICATION OF LEVITATION MELTING FOR PHYSICOCHEMICAL STUDY 67-02 M14-61745
DETERMINING THE SURFACE ENERGY OF SILICON IRON BY THE NEUTRAL DROP METHOD 67-02 M15-60070
ADHESION OF FE-CR, FE-MO AND FE-W ALLOYS TO WHITE ELECTROMELTING SLAG 67-02 M15-61204
SURFACE TENSION OF IRON WITH VARIOUS CARBON EQUIVALENTS AND EFFECT OF BISMUTH ADDITION 67-02 M15-61232
THE EFFECT OF ZIRCONIUM ON THE SURFACE PROPERTIES OF LIQUID NICKEL AT THE MELT-GAS AND MELT-SOLID ALUMINUM OXIDE INTERFACES 67-02 M15-62113
THE DENSITY AND SURFACE TENSION ISOTHERMS OF MANGANESE-SILICON MELTS 67-02 M15-62211
SURFACE TENSION OF SOLID TIN 67-03 M15-65879
SURFACE TENSION OF TERNARY IDEAL METALLIC SOLUTIONS 67-03 M15-65951
INTERFACIAL TENSION OF LIQUID STEEL ON THE BOUNDARY WITH WHITE SLAG IN ELECTROMELTING 67-04 M04-66080
SURFACE TENSION OF CAST IRONS WITH DIFFERENT CARBON EQUIVALENTS AND THE INFLUENCE THEREON OF BISMUTH ADDITIONS 67-04 M15-68093
INTERFACIAL TENSION OF PRODUCTS OF BLAST FURNACE MELTING OF TITANIUM-MAGNETITES AND METAL LOSSES IN SLAG 67-06 M04-69967
ON INTERFACIAL PROPERTIES BETWEEN MOLTEN SILVER, COPPER, NICKEL AND THESE BINARY ALLOYS AND MOLTEN SLAG 67-06 M14-70789
SURFACE TENSIONS OF CO-CE AND PU-CO-CE ALLOYS AS DETERMINED FROM FROZEN MENISCI 67-06 M15-70660

SURFACE TENSION OF MELTS OF SIO2-NA2O-B2O3-V2O5 AND THEIR ADHESION TO STEEL 67-06 M15-71130
STUDY OF THE SURFACE TENSION OF LIQUID SODIUM AND POTASSIUM 67-06 M15-72040
ON THE THEORY OF ANISOTROPY OF CRYSTALLINE SURFACE TENSION 67-07 M15-73639
PHYSICO-CHEMICAL PROPERTIES OF SLAGS OF THE CAO-AL2O3-MEXAY SYSTEM. PT. 2 67-08 M15-74331
DISPERSION ENERGIES AND SURFACE TENSIONS OF NOBLE METALS 67-08 M16-75384
ESTIMATION OF THE SURFACE TENSION IN METALS IN THE NEARLY-FREE ELECTRON MODEL 67-09 M15-77208
WETTING OF URANIUM CARBIDE 67-09 M15-77473
ORIGINS OF SURFACE TENSION EXTREMA IN METALLIC SOLUTIONS 67-09 M15-77919
CONNECTION BETWEEN THE SHAPE OF THE PHASE DIAGRAM AND THAT OF THE SURFACE TENSION AND ADSORPTION ISOTHERMS IN BINARY SYSTEMS OF METALS AND SEMICONDUCTORS 67-11 M14-80165
ANISOTROPY OF SURFACE TENSION IN METAL-SEMICONDUCTOR SYSTEMS 67-11 M15-80167
APPROXIMATE CALCULATION OF THE SURFACE TENSION OF MOLTEN ALKALI METALS 67-11 M15-80653
DENSITIES AND SURFACE PROPERTIES OF IRON-COBALT-NICKEL MELTS AT 1550 C 67-11 M15-81449
DETERMINING THE INTERFACIAL TENSION OF LIQUID IRON ON A BOUNDARY WITH COKE 67-11 M15-81666
SURFACE TENSION AND DENSITY OF LIQUID NI-GA ALLOYS AND THE WETTABILITY OF AL2O3 BY THEM 67-12 M15-82171
REDUCTION IN THE SURFACE TENSION OF SOLID METALS DUE TO ATOMS OF LIQUID SURFACE-ACTIVE METALS ADSORBED ON THEIR SURFACE 67-12 M15-82180
THE SURFACE TENSION OF THE ALKALI METALS 67-12 M15-82999

SURFACE TENSION, ALLOYING EFFECTS
EFFECT OF RARE-EARTH METALS ON THE CRYSTALLIZATION OF STEEL 67-02 M15-59179
INFLUENCE OF RARE-EARTH METALS ON THE CRYSTALLIZATION OF STEEL 67-10 M15-78888

SURFACE TENSION, COMPOSITION EFFECTS
EFFECT OF NITROGEN ON SURFACE TENSION OF LIQUID IRON AND ITS ALLOYS 67-04 M15-66607

SURFACE TENSION, IMPURITY EFFECTS
EFFECT OF SMALL ADDITIONS ON SURFACE TENSION OF METALS 67-02 M15-62230
IN-AL BONDS STRONGER THAN THOSE IN INDIUM, LIQUID-INTERFACE STUDY REVEALS 67-07 M14-73215

SURFACES
INVESTIGATIONS OF SURFACES OF THE BINARY SYSTEM TA-FE BY MEANS OF AN EMISSION ELECTRON MICROSCOPE 67-06 M13-70995

SURFACES, MICROSCOPY
THE EXAMINATION OF SURFACES WITH LIGHT, X-RAY AND ELECTRON BEAMS 67-01 M13-58436

SURFACING
SURFACING WITH BRONZE 67-07 M11-74277
FABRICATION OF PLATED STRUCTURAL MEMBERS--COMPARISON OF ROLL PLATING AND SURFACING 67-08 M12-75788

SUSCEPTIBILITY /MAGNETIC/
SEE MAGNETIC PERMEABILITY

SUSPENSIONS
SEE DISPERSIONS

SWAGING
SEE ALSO ROTARY SWAGING
TESTS IN SIMULATING THE CLOSING OF DEFECTS DURING SWAGING AND DRAWING OF LOW-DUCTILE STEEL 67-02 M07-59822
THE EFFECT OF COHERENT PARTICLES ON THE ANNEALING BEHAVIOR OF A COLD-WORKED CU-2 PER CENT CO ALLOY 67-02 M14-61819
PREPARATION OF FINE-GRAIN BERYLLIUM BY THE CAST AND WROUGHT ROUTE 67-07 M07-73736
PRECISION SWAGING ON A WECKER TWIN-HAMMER FORGING MACHINE 67-10 M07-79284
PLATING STEEL TUBES WITH ZIRCALOY-2 TUBES BY SWAGING 67-11 M08-80384
COLD FORMING BY SWAGING 67-12 M08-83132

SWELLING
ON THE SWELLING OF MARCONA IRON ORE PELLET DURING REDUCTION 67-02 M04-58841
THE PLASTIC BEHAVIOR OF BERYLLIUM AND SOME OTHER METALS 67-03 M17-65236
NONDESTRUCTIVE EXAMINATION OF RADIOACTIVE MATERIAL USING NEUTRON RADIOGRAPHY 67-03 M19-65015
EFFECT OF SMALL ADDITIONS OF ALUMINUM ON THE MICROSTRUCTURE OF URANIUM-MOLYBDENUM ALLOYS 67-04 M13-67161
ON THE ABNORMAL BEHAVIOR OF HEMATITE ORE DURING REDUCTION 67-05 M04-69479
SWELLING OF CHROMITE-CONTAINING REFRACTORIES 67-07 M05-72618
IRRADIATION BEHAVIOR OF PLUTONIUM ALLOY FUELS FOR FAST REACTORS 67-09 M16-76353
THE IRRADIATION BEHAVIOUR OF PLUTONIUM-URANIUM MONOCARBIDE 67-09 M16-76354
SWELLING CAPACITIES OF NONFERROUS SLAGS 67-10 M15-80069
CALCULATING THE END TEMPERATURE OF SWELLING 67-11 M14-81511
BASIC STUDIES OF IRRADIATION EFFECTS IN FUEL MATERIALS 67-11 M16-80465

SWELLING, RADIATION EFFECTS
IRRADIATION BEHAVIOR OF URANIUM FUEL TUBES IN A PRESSURIZED HEAVY-WATER REACTOR 67-06 M16-71055
TREAT MELTDOWN OF IRRADIATED METALLIC FAST-REACTOR FUEL IN AN INERT ATMOSPHERE 67-10 M16-78727

SWIFT CUP FORMING TEST
CORRELATION BETWEEN LABORATORY TESTS AND ACTUAL PRACTICAL STAMPING RESULTS 67-05 M17-68928
INFLUENCE OF ADDITION ELEMENTS AND SPECIAL TREATMENTS ON THE ANISOTROPY AND DRAWABILITY OF EXTRA-SOFT RIMMING STEELS 67-06 M07-72018

SWITCHBOX
SEE SWITCHGEAR

SWITCHES
SEE ALSO ELECTRIC SWITCHES
DOUBLE MECHANICAL HEAT SWITCH FOR CALORIMETRY BELOW 1 K 67-06 M15-70552

SWITCHES /ELECTRIC/
SEE ELECTRIC SWITCHES

SWITCHGEAR, WELDING
WELDING OF SWITCHGEAR 67-02 M11-59838

SYNCHRONOUS SATELLITES
SEE COMMUNICATION SATELLITES
SATELLITES /ARTIFICIAL/

SYNCHROS
SEE SERVOMOTORS

SYNCHROTRONS
MANUFACTURE OF VACUUM VESSELS FOR THE NINA SYNCHROTRON 67-05 M20-68503
PROBLEMS OF THE MANUFACTURE OF MAGNETS FOR PARTICLE ACCELERATORS 67-06 M20-72127

SYNTHESIS
SYNTHESIS OF RED, ALPHA-RHOMBOHEDRAL BORON 67-01 M05-58402
ON PREPARING SILICIDES BY REDUCTION OF MIXTURES OF TITANIUM AND SILICON TETRACHLORIDES WITH HYDROGEN 67-02 M03-59880
PREPARATION OF URANIUM CARBIDE FROM URANIUM CHLORIDE 67-02 M03-60680
PREPARATION OF ZIRCONIUM DIBORIDE 67-02 M03-61625
PREPARATION AND PROPERTIES OF ALUMINUM BORIDES 67-02 M05-62111
PRODUCTION OF RARE EARTH SILICIDES BY ARC MELTING 67-02 M13-59882
SYNTHESIS OF A NEW DOUBLE OXIDE OF URANIUM AND NIOBIUM 67-02 M14-60556
A NEW FAMILY OF OXYGENATED BRONZES--THE CDXWO3 SERIES 67-02 M14-62286
A PROCESS FOR PREPARING TUNGSTIC TRIOXIDE OF HIGH PURITY FROM A CANADIAN SCHEELITE CONCENTRATE 67-03 M14-65567
SYNTHESIS AND ALLOYING OF LEAD TELLURIDE 67-04 M16-66029
THE SYNTHESIS OF LEAD TELLURIDE WITH THE AID OF CHEMICAL REACTIONS 67-04 M16-66031
A NEW TECHNOLOGICAL PROCESS FOR OBTAINING HIGH-QUALITY TIO2 67-05 M03-68927
LOW-TEMPERATURE SYNTHESIS OF METALLIC SILICIDES AND GERMANIDES BY AN AMALGAM METHOD 67-05 M14-68215
CONTINUOUS SILICON CARBIDE FILAMENTS 67-07 M09-73351
LANTHANUM GERMANIDES 67-07 M14-73275
HYDROTHERMAL SYNTHESIS OF METALLIC AND NONMETALLIC TELLURIDES 67-08 M14-76057
NOBLE METALS, MOLYBDENUM AND TUNGSTEN IN HYDROCARBON SYNTHESIS 67-08 M14-76159
PRODUCTION OF CRYSTALLINE BORON CARBIDE FROM THE GASEOUS PHASE 67-09 M05-76713
MECHANISM OF TIC SYNTHESIS IN THE PRESENCE OF HYDROCARBONS 67-09 M14-76882
PREPARATION OF CHROMIUM SULFIDES 67-12 M14-81817

SYNTHESIS
ON THE PREPARATION OF SOME CHROMIUM, MOLYBDENUM AND TUNGSTEN BORIDES 67-12 M14-81830
SYNTHESIS, PRESSURE EFFECTS
ULTRAHIGH PRESSURE MAKES METAL ACT IN NEW WAYS 67-10 M07-78575
SYNTHETIC COKE
SEE COKE
SYNTHETIC FIBERS
SEE GLASS FIBERS
GLASS WOOL
SLAG WOOL
SYNTHETIC RESINS
SEE ALSO ACRYLIC RESINS
ALKYD RESINS
EPOXY RESINS
POLYAMIDE RESINS
POLYESTERS
POLYURETHANE RESINS
POLYVINYL CHLORIDE
SILICONE RESINS
VINYL RESINS
METALLIC ADHESION OF ALUMINUM PROFILES 67-10 M11-79238
SYNTHETIC RESINS, ADHESIVES
APPLYING CARBIDE COATINGS BY ADHESIVE BONDING 67-08 M12-74492
SYNTHETIC RESINS, COATING
THE STATE OF THE ART OF ELECTROPLATED ABS AND OTHER PLASTICS 67-07 M12-72769
SYNTHETIC RESINS, COATINGS
SURFACE SEALING OF MAGNESIUM ALLOY COMPONENTS OPERATING UNDER MARITIME CONDITIONS 67-09 M18-77199
COATING WITH PLASTIC POWDERS. PT. 1. IMPROVED PLASTIC COATING TECHNIQUES 67-10 M12-78704
COIL COATING OF METALS 67-12 M12-82041
SYSTEMS
SEE CONTROL SYSTEMS
ELECTRIC COMMUNICATION SYSTEMS
ELECTRIC PROPULSION
EXHAUST SYSTEMS
HYDRAULIC SYSTEMS
LUBRICATION SYSTEMS
NUCLEAR PROPULSION
PROPULSION SYSTEMS

TACONITE, BENEFICIATION
THE CONCENTRATION AND PELLETIZING OF TACONITE. PT. 1 67-02 M02-61117
THE CONCENTRATION AND PELLETIZING OF TACONITE. PT. 2 67-03 M02-65412
THE CONCENTRATION AND PELLETIZING OF TACONITE. PT. 3 67-04 M02-66115
RAPPER ADDS NEW TOUCH TO FINE SCREENING 67-06 M02-70487
TAILINGS, BENEFICIATION
NEW WAY TO WIN MOLY 67-03 M02-65115
WHITE PINE EXPERIMENTS WITH CYANIDE LEACHING OF COPPER TAILINGS 67-11 M02-80670
TAILINGS, LEACHING
INVESTIGATION OF LEACHING OF MOLYBDENUM CONTAINING PRODUCTS WITH SODA AND CHLORINE 67-06 M03-71302
TAILINGS, MELTING
CASTING LINING TILES INTO PREHEATED SAND MOLDS 67-02 M05-61803
TANDEM FURNACE PROCESS
SEE TILTING OPENHEARTH FURNACES
TANDEM MILLS
SEE ALSO COLD TANDEM MILLS
SUGGESTIONS FOR INCREASING THE EFFICIENCY OF COLD ROLLING TANDEM MILLS 67-11 M07-80363
THE KRUPP/PLATZER PLANETARY ROLLING MILL--DESIGN AND OPERATION 67-11 M07-81363
TANDEM ROLLING
SEE CONTINUOUS ROLLING
TANKER PLANES
SEE MILITARY PLANES
TANKERS /WATERBORNE/, WELDMENTS
LOW-CYCLE FATIGUE OF STEEL STRUCTURES 67-04 M17-68020
TANKS
SEE ALSO FUEL TANKS
PROPELLANT TANKS
STORAGE TANKS
TANKS, CORROSION
CATHODIC PROTECTION., TECHNIQUE OF CORROSION CONTROL 67-01 M18-58109
TANKS, MECHANICAL PROPERTIES
BRITTLE FRACTURES IN SERVICE 67-06 M17-70561
ON THE SULPHIDE CORROSION CRACKING OF HIGH STRENGTH STEEL OWING TO H2S IN CHEMICAL PLANTS 67-06 M17-72068
TANKS, NONDESTRUCTIVE TESTING
SYSTEMATIC NONDESTRUCTIVE TESTS ON TANK BOTTOMS OF STEAM GENERATORS BELONGING TO ELECTRICITE DE FRANCE 67-08 M19-76162
TANKS, WELDING
AUTOMATIC WELDING OF ST. 3 PLUS OKH23N28M3D3T BILAYER STEEL 67-07 M11-72873
TANKS /ELECTROLYTIC/
SEE ELECTROLYTIC CELLS
TANTALUM
REFRACTORY METALS CB, TA, MO, W 67-05 M01-68419
ELECTROPOLISHING NIOBIUM 67-08 M13-75299
TANTALUM, ACOUSTIC PROPERTIES
DISLOCATION RELAXATIONS IN SINGLE-CRYSTAL AND POLYCRYSTALLINE NIOBIUM AND TANTALUM AT MEGAHERTZ FREQUENCIES 67-10 M16-78476
TANTALUM, ADSORPTION
ADSORPTION ON NIOBIUM --110--, TANTALUM --110--, AND VANADIUM --110-- SURFACES 67-08 M14-75336
TANTALUM, ALLOYING ADDITIVE
PRECIPITATION IN AUSTENITIC STAINLESS STEELS CONTAINING TANTALUM 67-04 M10-67194
EFFECT OF ALLOYING ELEMENTS ON THE FORMABILITY OF CAST RE 67-05 M17-68978
PRECIPITATION-HARDENING BEHAVIOR AND MECHANICAL PROPERTIES OF HEAT-RESISTING ALLOYS CONTAINING UP TO 35 PER CENT COBALT 67-06 M17-70599
STRUCTURE AND SOME PROPERTIES OF NIOBIUM-TANTALUM ALLOYS CONTAINING TUNGSTEN AND MOLYBDENUM 67-11 M17-80985
EFFECT OF CERTAIN ALLOYING ELEMENTS ON THE STRENGTH AND PLASTICITY OF TITANIUM IN THE -196 TO 800 C. TEMPERATURE RANGE 67-11 M17-81163
OXIDATION OF HF-TA ALLOYS 67-12 M18-82978
RESEARCH INTO THE CORROSION RESISTANCE, ELECTROCHEMICAL AND MECHANICAL PROPERTIES, AND THE MICROSTRUCTURE OF NB-TA SYSTEM ALLOYS 67-12 M18-83370
TANTALUM, BENEFICIATION
FLOTATION PROPERTIES OF STRUVERITE, TANTALITE, AND MICROLITE 67-08 M02-75168
TANTALUM, BINARY SYSTEMS
INTERACTION OF RUTHENIUM WITH TANTALUM 67-02 M13-59665
ON THE P-T-C-REPRESENTATION OF THE NIOBIUM-OXYGEN AND TANTALUM-OXYGEN SYSTEMS 67-02 M13-61889
THE METAL RICH PARTS OF THE SYSTEMS TA-C, NB-C AND V-C 67-02 M14-60120
SOLUBILITY OF GASES IN REFRACTORY METALS AND PRECIPITATION FROM SUPERSATURATED SOLID SOLUTIONS 67-04 M14-67547
INTERACTION OF TANTALUM WITH NBRU COMPOUNDS 67-06 M13-70183
INVESTIGATIONS OF SURFACES OF THE BINARY SYSTEM TA-FE BY MEANS OF AN EMISSION ELECTRON MICROSCOPE 67-06 M13-70995
ISOLATION OF THE ZETA PHASE IN THE SYSTEM TANTALUM-CARBON 67-06 M14-71168
FAULTING IN COLD WORKED TA-10 PER CENT RE AND W-20 PER CENT RE 67-06 M17-71086
THE IRON-TANTALUM SYSTEM 67-10 M13-78336
X-RAY EXAMINATION OF THE TA-CO SYSTEM 67-12 M13-83143
TANTALUM, BRAZING
BRAZING OF GRAPHITE AND SOME OTHER MATERIALS 67-10 M11-78406
TANTALUM, CASTING
MELTING AND CASTING REFRACTORY OR REACTIVE METALS BY PLASMA ELECTRON BEAM 67-09 M06-78223
TANTALUM, CHEMICAL ANALYSIS
THE APPLICATION OF A XENON FLASH DISCHARGE LAMP TO THE ANALYSIS OF THIN METAL FILMS 67-08 M19-74711
TANTALUM, CHEMISTRY
THE CHEMISTRY OF NIOBIUM AND TANTALUM 67-11 M01-80401
TANTALUM, COATING
DEPOSITION OF TANTALUM, TANTALUM OXIDE, AND TANTALUM NITRIDE WITH CONTROLLED ELECTRICAL CHARACTERISTICS 67-01 M12-57107
PROPERTIES OF COATED REFRACTORY METALS. PT. 2 67-01 M12-58003

THE SILICONIZING OF REFRACTORY METALS UNDER NONEQUILIBRIUM CONDITIONS 67-02 M10-62210
THERMODIFFUSION INTERACTION OF TANTALUM WITH BORON CARBIDE POWDER IN A VACUUM 67-04 M14-67045

TANTALUM, COATINGS
SIMPLIFIED OPERATIONS ANALYSIS IN CONTINUOUS SPUTTERING OF THIN FILMS 67-03 M12-65066
TECHNICAL PROCESSES USING SHOCK WAVES AND THEIR APPLICATION 67-04 M08-66409
NON-FERROUS METALS RESEARCH 67-07 M01-74165
DEPOSITION OF TANTALUM AND TANTALUM OXIDE BY SUPERIMPOSED RF AND D-C SPUTTERING 67-07 M12-73458
LOW ENERGY SPUTTERING OF RESISTIVE FILMS 67-09 M12-77532
NEW ARMOR FOR PLANT EQUIPMENT 67-09 M12-77567

TANTALUM, CORROSION
RETARDATION OF THE OXIDATION RATES OF NIOBIUM, TANTALUM AND TUNGSTEN BY FLUORIDE COATING 67-04 M18-66164
USE OF THE REFRACTORY METALS IN CORROSIVE ENVIRONMENT SERVICE 67-05 M01-69103
ELECTRON DIFFRACTION STUDY OF THE STRUCTURE OF THE SUBOXIDES OF NIOBIUM AND TANTALUM 67-05 M13-69584
EVALUATION OF SILICIDE COATINGS ON COLUMBIUM AND TANTALUM AND A MEANS FOR IMPROVING THEIR OXIDATION RESISTANCE 67-06 M18-69926
CORROSION-RESISTANT ALLOYS IN CHLORIDE SOLUTIONS--MATERIALS FOR SURGICAL IMPLANTS 67-06 M18-70694
KINETICS OF TANTALUM CORROSION IN AQUEOUS ELECTROLYTES 67-06 M18-72172
KINETICS OF TANTALUM CORROSION IN AQUEOUS ELECTROLYTES. PT. 2 67-07 M18-73457
CORROSION RESISTANCE OF PLATINUM, COPPER NICKEL, AND TANTALUM IN LIQUID OXYGEN DIFLUORIDE 67-09 M18-77893
USE OF THE REFRACTORY METALS IN CORROSIVE ENVIRONMENT SERVICE 67-11 M18-80295
EFFECT OF OXYGEN AND NITROGEN IN TANTALUM ON ITS RESISTANCE TO CORROSION BY LIQUID PLUTONIUM ALLOYS 67-11 M18-80544
ATMOSPHERIC CORROSION OF TANTALUM 67-11 M18-81128
KINETICS OF THE OXIDATION OF TANTALUM BY WATER VAPOR 67-12 M18-82568

TANTALUM, CRYSTAL LATTICES
STRUCTURE OF VERY THIN TANTALUM AND MOLYBDENUM FILMS 67-02 M14-61826
EFFECT OF OXYGEN ON THE RECRYSTALLIZATION OF TANTALUM 67-02 M14-62082
INFLUENCE OF IMPURITIES ON THE DISCONTINUOUS YIELDING OF HIGH MELTING POINT METALS 67-04 M17-67198
WORK HARDENING AND DISLOCATION STRUCTURE IN TA AND TA-BASE ALLOYS 67-06 M14-71284
THE INTERACTIONS BETWEEN INTERSTITIALS AND THEIR ORDERING 67-08 M14-75078
MIGRATION OF LOCALIZED IMPERFECTIONS AND ANELASTIC RELAXATION DUE TO DISLOCATIONS IN TANTALUM 67-09 M13-78165

TANTALUM, DEFORMATION
A CRITICAL REVIEW OF THE PEIERLS MECHANISM 67-06 M17-71524

TANTALUM, DEGASSING
DEGASSING KINETICS OF METAL-NITROGEN-SOLID SOLUTIONS. PT. 1. THEORETICAL CONSIDERATIONS 67-02 M14-60125

TANTALUM, DEPOSITION
POROUS BODIES OF TANTALUM, NIOBIUM, AND ALUMINUM FABRICATED BY METAL SPRAY PROCESSES 67-11 M12-80840

TANTALUM, DESORPTION
THE TRAPPING OF HYDROGEN IONS IN MOLYBDENUM, TITANIUM, TANTALUM AND ZIRCONIUM 67-10 M14-79336

TANTALUM, DIFFUSION
A REVIEW OF DIFFUSION PROCESSES IN ZIRCONIUM AND ITS ALLOYS 67-02 M14-59018
ELASTIC RELAXATION DUE TO DEUTERIUM INTERSTITIAL ATOM DIFFUSION IN TANTALUM 67-02 M14-59734
INTERACTION OF TANTALUM WITH NITROGEN AND AIR 67-04 M14-66449
DIFFUSION MECHANISM IN BODY-CENTERED CUBIC METALS 67-06 M14-72066
DIFFUSION OF CARBON IN TANTALUM 67-07 M14-72524
MUTUAL DIFFUSION OF COLUMBIUM WITH SOME REFRACTORY METALS 67-07 M14-74188
THE POSITION ENERGY AND ACTIVATION ENERGY OF DIFFUSION OF INTERSTITIAL IMPURITIES 67-08 M14-75077
RESEARCH INTO THE RELATIONSHIP OF THE THERMAL CONDUCTIVITY AND THERMAL DIFFUSIVITY OF TANTALUM AND NIOBIUM TO THE TEMPERATURE 67-10 M15-78950
INTERACTION OF TANTALUM WITH NITROGEN AND AIR 67-11 M14-80990

TANTALUM, DISSOLVING
SOLUBILITY STUDIES OF ULTRA PURE TRANSITION ELEMENTS IN ULTRA PURE ALKALI METALS 67-01 M15-58508

TANTALUM, ELECTRICAL PROPERTIES
EMISSIVITY AND ELECTRICAL RESISTIVITY OF TANTALUM AT HIGH TEMPERATURES 67-05 M15-69847
THE THERMOELECTRIC PROPERTIES OF SOME REFRACTORY METALS 67-06 M15-70345
HIGH VACUUM PURIFICATION OF NIOBIUM AND TANTALUM AND ITS INFLUENCE ON THE ELECTRIC RESISTIVITY 67-06 M15-71668
WORK FUNCTION OF METALS 67-06 M16-70492
EFFECT OF SUBSTRATE TEMPERATURE ON THE ELECTROCONDUCTIVITY OF FILMS, PRODUCED BY VACUUM DEPOSITION OF TANTALUM 67-08 M15-74626
THE HEAT-TREATMENT OF ANODIC OXIDE FILMS ON TANTALUM. PT. 6. THE EFFECT OF CHEMICAL THINNING 67-09 M15-77894

TANTALUM, ELECTRON DIFFRACTION
DENSITY DETERMINATION OF SPUTTERED TANTALUM FILMS BY A BETA-BACKSCATTER TECHNIQUE 67-08 M19-74715

TANTALUM, ELEMENTARY PARTICLES
ANNIHILATION OF POSITRONS WITH ELECTRONS IN PLASTICALLY DEFORMED METALS WITH BCC LATTICES 67-04 M16-66001

TANTALUM, EXTRACTION
USE OF AMMONIUM CHLORIDE FOR SEPARATING NIOBIUM AND TANTALUM IN HCL-HF SOLUTIONS WITH ANIONITES 67-01 M02-57308
DECOMPOSITION OF LEAN ZIRCON-PYROCHLORE CONCENTATES BY HYDROFLUORIC ACID 67-02 M03-59850
DECOMPOSITION OF TANTALITE CONCENTRATES BY CAUSTIC POTASH AND CAUSTIC SODA SOLUTIONS AT ELEVATED TEMPERATURES AND PRESSURES 67-02 M03-59879
USING MATHEMATICALLY PLANNED EXPERIMENTS FOR STUDYING THE PROCESS OF PRODUCING TANTALUM BY HYDROGEN REDUCTION OF TANTALUM PENTACHLORIDE ON A HEATED SURFACE 67-02 M03-62247
OBTAINING NIOBIUM AND TANTALUM OXIDES FROM ZIRCON-PYROCHLOROUS CONCENTRATE 67-03 M03-65583
SOLVENT EXTRACTION OF PROTACTINIUM, NIOBIUM AND TANTALUM FROM CITRATE SOLUTIONS 67-07 M03-73899
USE OF WATER-SOLUBLE AMINES IN THE TECHNOLOGY OF PROCESSING TANTALUM-NIOBIUM PRODUCTS 67-11 M03-81231
CHEMICAL TREATMENT OF COLUMBITE AND MICROLITE CONCENTRATES 67-11 M03-81232

TANTALUM, FASTENERS
METAL FASTENERS IN ULTRA-HIGH TEMPERATURES 67-05 M20-69556

TANTALUM, HEAT TREATMENT
ISOTHERMAL SATURATION OF REFRACTORY METALS WITH NITROGEN AND STEP-WISE NITROGENATION 67-02 M10-61629
STEADY STATES DURING HEAT TREATMENT OF NIOBIUM AND TANTALUM UNDER WATER VAPOR 67-06 M14-71726

TANTALUM, INTERMETALLICS
THE CRYSTAL STRUCTURE OF TANI3 AND ITS CHANGE ON COLD WORKING 67-07 M13-73922

TANTALUM, IRRADIATION
EXCITATION FUNCTIONS AND ANGULAR DISTRIBUTIONS OF MULTINUKLEON TRANSFER REACTIONS IN THE INTERACTION BETWEEN COMPLEX NUCLEI 67-10 M16-80004
ANNEALING SPECTRUM OF ELECTRON-IRRADIATED NIOBIUM AND TANTALUM FROM 13 TO 301 K 67-12 M16-82525

TANTALUM, MAGNETIC PROPERTIES
SPIN DETERMINATIONS OF NEUTRON RESONANCES IN SB, TA, RE, AND IR, USING IRON-ALLOY TARGETS 67-07 M15-72931
HIGH-FIELD GALVANOMAGNETIC PROPERTIES OF NIOBIUM AND TANTALUM 67-10 M15-79415
PARAMAGNETIC EFFECTS OF THE ALTERNATING FIELD

SUSCEPTIBILITY OF SUPERCONDUCTING TANTALUM
67-11 M15-80772

TANTALUM, MECHANICAL PROPERTIES
THE EFFECT OF STRESS ON STRAIN AGEING
67-01 M17-57480
LOW-TEMPERATURE FLOW AND FRACTURE BEHAVIOR OF TANTALUM
67-01 M17-57630
STRAIN-AGING IN TANTALUM
67-02 M17-58954
SOME CORRELATION PROCEDURES BASED ON THE LARSON-MILLER PARAMETER AND THEIR APPLICATION TO REFRACTORY METAL DATA
67-02 M17-59436
EFFECT OF CARBURIZATION ON THE SHORT-TIME STRENGTH OF TUNGSTEN, MOLYBDENUM AND TANTALUM AT HIGH TEMPERATURES
67-02 M17-59872
THE DEFORMATION CHARACTERISTICS OF NB, TA, MO AND W
67-03 M17-65760
STRESS MEASUREMENTS DURING THE OXIDATION OF TANTALUM AND NIOBIUM
67-04 M17-66067
SNOEK PEAKS AND THEIR STABILITY IN ANNEALED AND DEFORMED TANTALUM
67-04 M17-66162
THE MECHANICAL BEHAVIOR OF REFRACTORY-METAL ALLOYS
67-04 M17-66196
MICROHARDNESS OF CHEMICAL ELEMENTS
67-04 M17-66858
SOME PROPERTIES OF FLOATING ZONE MELTED MO, W AND TA. PT. 7. THE ELECTRON BEAM MELTING OF REFRACTORY METALS
67-05 M17-69856
DISLOCATION MECHANISMS IN SINGLE CRYSTALS OF TANTALUM AND MOLYBDENUM AT LOW TEMPERATURES
67-06 M13-70411
REQUIREMENTS FOR METALLIC SURGICAL IMPLANTS AND PROSTHETIC DEVICES
67-06 M17-70121
THE INFLUENCE OF ELASTIC ANISOTROPY ON THE PROPAGATION OF FRACTURE
67-06 M17-70645
X-RAY STUDY OF WIRE-DRAWN NIOBIUM AND TANTALUM
67-06 M17-71426
PLASTIC ANISOTROPY OF TANTALUM, NIOBIUM, AND MOLYBDENUM
67-06 M17-71530
ORIENTATION DEPENDENCE OF YIELD IN BODY-CENTERED CUBIC METALS
67-06 M17-71531
STRAIN-AGING OF TANTALUM
67-06 M17-71602
ELASTIC DEFORMATION OF FIELD-ION-MICROSCOPE TIPS
67-09 M17-77433
PLASTIC DEFORMATION OF TANTALUM SINGLE CRYSTALS. PT. 1. THE SURFACE MORPHOLOGY OF YIELD
67-11 M17-80312
HARDENING OF POLYCRYSTALLINE REFRACTORY METALS AND ALLOYS
67-12 M17-81991

TANTALUM, METAL WORKING
ROLLING OF REFRACTORY METALS IN INERT CONTROLLED ATMOSPHERE
67-08 M07-76246

TANTALUM, METALLOGRAPHY
ELECTRON METALLOGRAPHY TECHNIQUES APPLIED TO BODY CENTERED CUBIC METALS AND ALLOYS
67-01 M13-58761

TANTALUM, MICROSCOPY
FIELD EVAPORATION OF METALS IN FIELD ION MICROSCOPE
67-08 M13-75083

TANTALUM, MICROSTRUCTURE
ON THE ORGIN AND IDENTITY OF THE OXIDE PLATELETS OBSERVED IN TANTALUM AFTER OXIDATION
67-01 M14-57426
DISLOCATION ARRANGEMENTS IN TANTALUM SINGLE CRYSTALS DEFORMED IN TENSION AT 373 K
67-02 M13-58960
THE EFFECT OF THE DEGREE OF PURITY ON SOME PROPERTIES OF HIGH-MELTING MATERIALS
67-05 M14-68580
THE FORMATION OF THE ROLLING TEXTURE OF BODY-CENTERED CUBIC METALS AND ALLOYS
67-06 M13-71657

TANTALUM, OXIDATION
OXIDATION OF TANTALUM COATED WITH ALUMINUM AND ALUMINUM-CHROMIUM ALLOYS
67-06 M12-70796
MASS BEHAVIOR IN THE OXIDATION OF TANTALUM
67-12 M15-83230

TANTALUM, PHYSICAL PROPERTIES
APPLICATIONS OF REFRACTORY METALS IN INDUSTRIAL FUR
67-01 M20-58451
THE SOLUBILITY OF TANTALUM AND TUNGSTEN IN LIQUID RARE-EARTH METALS
67-03 M14-65131
THE THERMAL DIFFUSIVITY AND THERMAL CONDUCTIVITY OF METALS AT HIGH TEMPERATURES
67-10 M15-78346
THE SPECIFIC HEATS OF HIGH-MELTING METALS AT HIGH TEMPERATURES AND THE FORMATION OF VACANCIES IN THEM
67-10 M15-78347

TANTALUM, POWDER METALLURGY
DIRECT CURRENT PLASMA--A NEW SPHEROIDIZING PROCESS
67-02 M09-59468
THE DEPENDENCE OF THE TECHNOLOGICAL PROPERTIES OF TANTALUM AND NIOBIUM ON THE PHYSICOCHEMICAL CHARACTERISTICS OF THEIR STARTING POWDERS
67-02 M09-62104

TANTALUM, REACTIONS /CHEMICAL/
DISSOLUTION OF METALS BY AC ELECTROLYSIS
67-01 M14-58583
THE EFFECT OF ANODIC FILMS ON THE GASEOUS OXIDATION OF TANTALUM
67-02 M14-59450
THE PROCESS OF TA AND PT ACTIVATION BY THORIUM AND THORIUM OXIDES
67-05 M15-68605
RATE-CONTROLLING PROCESSES IN THE HIGH-TEMPERATURE OXIDATION OF TANTALUM
67-07 M14-73449
THE HIGH-TEMPERATURE OXIDATION OF TANTALUM SINGLE CRYSTALS
67-07 M18-73405

TANTALUM, REFINING
THE ELECTRON BOMBARDMENT SMELTING FURNACE OF LA CIE PECHINEY
67-03 M03-65194
INFLUENCE OF OXYGEN AND THE PARTIAL PRESSURE OF WATER VAPOR ON THE DEGASSING OF NB AND TA
67-08 M03-75050

TANTALUM, SINGLE CRYSTALS
RECOVERY OF DEFORMED NIOBIUM AND TANTALUM DEGASSED IN ULTRA-HIGH VACUUM
67-11 M14-80632

TANTALUM, SOLUBILITY
THE SOLUBILITIES OF CARBON, TANTALUM, TUNGSTEN AND RHENIUM IN LIQUID PLUTONIUM
67-06 M15-70890
RATE OF SOLUTION OF ROTATING TANTALUM DISKS IN LIQUID TIN
67-09 M14-77890

TANTALUM, SORPTION
STEADY STATES DURING ANNEALING NIOBIUM AND TANTALUM IN OXYGEN
67-06 M14-71666

TANTALUM, SUPERCONDUCTIVITY
MAGNETIC FIELD DEPENDENCE OF THE MICROWAVE SURFACE IMPEDANCE OF SUPERCONDUCTING TANTALUM
67-08 M16-74945

TANTALUM, TERNARY SYSTEMS
INVESTIGATION OF THE SYSTEM TICR2-TACR2-NBCR2
67-02 M13-59610
X-RAY INVESTIGATIONS IN A FEW T-T5-AL SYSTEMS
67-02 M13-61888
URANIUM CARBIDE. REFRACTORY METAL INTERACTIONS AT HIGH TEMPERATURE
67-03 M14-65987
THE STRUCTURE OF THE ZRCR2-TACR2 SYSTEM
67-04 M14-66165
THE STRUCTURE OF ALLOYS IN THE ZR-C-TA SYSTEM
67-05 M13-69492
INTERACTION BETWEEN THE NBRU AND TARU COMPOUNDS
67-06 M13-70185
TERNARY SYSTEMS NIOBIUM-RHENIUM-CARBON AND TANTAL-RHENIUM-CARBON
67-08 M13-74309
THE SYSTEM TICR2-TACR2-NBCR2
67-09 M13-76928
STUDY OF THE W-TA-RE SYSTEM BY THE DIFFUSION LAYER METHOD
67-11 M13-81174
ZIRCONIUM-TANTALUM-CHROMIUM-SYSTEM
67-12 M13-82048
INFLUENCE OF NIOBIUM ON THE SOLID STATE TRANSFORMATIONS IN VANADIUM-TANTALUM ALLOYS
67-12 M13-82424

TANTALUM, THERMAL PROPERTIES
INVESTIGATION OF TEMPERATURE DEPENDENCE OF THERMAL DIFFUSIVITY OF NIOBIUM AND TANTALUM
67-09 M14-76763
STRAIN MEASUREMENTS IN TUBES DURING RAPID TRANSIENT HEATING
67-10 M15-78776
THERMOPHYSICAL PROPERTIES OF TANTALUM AT TEMPERATURES ABOVE 1000 C
67-10 M15-79249
THERMOPHYSICAL PROPERTIES OF TANTALUM, TUNGSTEN, RHENIUM, AND THEIR ALLOYS IN THE TEMPERATURE RANGE 1500 TO 3000 K
67-10 M15-79942
HEAT CONDUCTIVITIES BELOW 1 K. PT. 2
67-12 M15-83401

TANTALUM, THIN FILMS
TANTALUM INTEGRATED CIRCUITS
67-04 M14-66881
EFFECT OF BACKGROUND-GAS IMPURITIES ON THE FORMATION OF SPUTTERED BETA-TANTALUM FILMS
67-11 M15-81078

TANTALUM, WELDING
WELDING OF REFRACTORY ALLOYS
67-08 M11-74463
LASERS FIND USE FOR PRODUCTION WELDING
67-08 M11-74727

TANTALUM, X RAY ANALYSIS
THE LBETA 2 LINE OF THE TANTALUM X-RAY FLUORESCENCE SPECTRUM IN THE METAL PROPER AND IN SOME OF ITS REFRACTORY COMPOUNDS
67-10 M16-79729

TANTALUM BASE ALLOYS, AEROSPACE
EMERGING AEROSPACE MATERIALS AND FABRICATION TECHNIQUES
67-06 M20-72200

TANTALUM BASE ALLOYS, BRAZING
BRAZING ALLOYS AND TECHNIQUES FOR TANTALUM HONEYCOMB STRUCTURES 67-11 M11-80412
TANTALUM BASE ALLOYS, COATING
INFLUENCE OF BOOST GLIDE REENTRY VEHICLE ENVIRONMENT ON COATED AND BASE REFRACTORY METALS 67-04 M18-67214
REFRACTORY METALS PROTECTION 67-06 M12-71318
PROTECTIVE COATINGS FOR REFRACTORY MATERIALS 67-08 M12-75862
OXIDATION RESISTANT COATINGS FOR REFRACTORY METALS IN AIRCRAFT GAS TURBINE ENGINES 67-12 M12-82078
TANTALUM BASE ALLOYS, CORROSION
CAVITATION DAMAGE STUDIES WITH ROTATING DISK IN WATER 67-06 M18-71638
TANTALUM BASE ALLOYS, CRYSTAL LATTICES
FAULTING IN COLD WORKED TA-10 PER CENT RE AND W-20 PER CENT RE 67-01 M13-58455
WORK HARDENING AND DISLOCATION STRUCTURE IN TA AND TA-BASE ALLOYS 67-06 M14-71284
TANTALUM BASE ALLOYS, ELECTRICAL PROPERTIES
EFFECT OF ALLOYING ELEMENTS ON ELECTRICAL RESISTANCE OF TANTALUM-NIOBIUM ALLOY 67-02 M15-61732
THE TEMPERATURE DEPENDENCE OF THE CRITICAL FIELD HC2 IN SOLID SOLUTION NB-TA ALLOYS 67-07 M16-73495
TANTALUM BASE ALLOYS, HEAT TREATMENT
CARBURIZATION OF NIOBIUM- AND TANTALUM-BASE ALLOYS 67-06 M10-70797
TANTALUM BASE ALLOYS, MAGNETIC PROPERTIES
MAGNETIC PROPERTIES OF V-TA ALLOYS 67-02 M15-61679
TANTALUM BASE ALLOYS, MECHANICAL PROPERTIES
REFRACTORY METALS --CB, TA, MO, W-- 67-02 M01-61817
SOME CORRELATION PROCEDURES BASED ON THE LARSON-MILLER PARAMETER AND THEIR APPLICATION TO REFRACTORY METAL DATA 67-02 M17-59436
CREEP-RUPTURE PROPERTIES UNDER CONDITIONS OF CONSTANT AND VARYING STRESSES 67-03 M17-65017
THE EQUILIBRIUM COTTRELL ATMOSPHERE AND THE DISCONTINUOUS YIELD IN TANTALUM-OXYGEN 67-04 M17-66069
INFLUENCE OF ATMOSPHERIC NITROGEN ON THE CREEP PROPERTIES OF CHROMIUM-TANTALUM ALLOYS 67-05 M17-68211
TANTALUM-BASE ALLOY 67-05 M17-69229
MECHANICAL PROPERTIES OF SOME TANTALUM ALLOYS 67-06 M17-71528
TEMPERATURE DEPENDENCE OF YOUNGS MODULUS OF A TA-W-HF ALLOY 67-07 M17-73407
COLUMBIUM AND TANTALUM ALLOY DEVELOPMENT 67-08 M01-74672
REFRACTORY METALS --CB, TA, MO, W-- 67-08 M01-75390
CREEP PROPERTIES OF REFRACTORY METAL ALLOYS IN ULTRAHIGH VACUUM 67-08 M17-76145
TANTALUM ALLOYS 67-09 M17-77328
REFRACTORY METALS CB, TA, MO, W 67-10 M01-79801
INFLUENCE OF ALLOYING ELEMENTS ON MECHANICAL PROPERTIES AND RECRYSTALLIZATION POINT OF TA-33 PER CENT CB ALLOY 67-10 M17-79142
THE MECHANICAL BEHAVIOR OF REFRACTORY-METAL ALLOYS 67-11 M17-80791
TANTALUM BASE ALLOYS, MELTING
ELECTRON BEAM MELTING OF COLUMBIUM-BASE AND TITANIUM-BASE ALLOYS 67-08 M03-75212
TANTALUM BASE ALLOYS, MICROSTRUCTURE
THE FORMATION OF THE ROLLING TEXTURE OF BODY-CENTERED CUBIC METALS AND ALLOYS 67-06 M13-71657
TANTALUM BASE ALLOYS, PHYSICAL PROPERTIES
WORK FUNCTION OF W-HF, TA-HF, NB-HF, RE-HF, RE-ZR, W-RE ALLOYS 67-02 M15-59929
WORK FUNCTION OF ALLOYS W-HF, TA-HF, NB-HF, RE-HF, RE-ZR AND W-RE 67-07 M15-72584
TANTALUM BASE ALLOYS, ROLLING
THE REFRACTORY METALS SHEET ROLLING PROGRAM 67-06 M07-70124
TANTALUM BASE ALLOYS, SUPERCONDUCTIVITY
SUPERCONDUCTING TRANSITION TEMPERATURE OF SOLID-SOLUTION TA-TI ALLOYS 67-03 M16-65878
CORRELATION BETWEEN CRITICAL CURRENTS AND CRITICAL MAGNETIC FIELDS IN A NONIDEAL TYPE 2 SUPERCONDUCTOR 67-08 M16-75665
THE NATURE OF CURRENT-INDUCED TRANSITIONS IN TYPE II SUPERCONDUCTORS ABOVE HC2 67-10 M16-79363
TANTALUM BASE ALLOYS, SURFACE PROPERTIES
USE OF YTTRIUM IN GETTERING OXYGEN AND NITROGEN IN NIOBIUM-BASE ALLOYS 67-02 M13-61777
TANTALUM COMPOUNDS, BENEFICIATION
EFFECT OF LOW-MOLECULAR WEIGHT ALIPHATIC ACIDS IN FLOTATION OF CASSITERITE, TANTALITE AND GARNET 67-02 M02-59545
EFFECT OF THE COMPOSITION OF SOME NONSULFIDE MINERALS ON THE MECHANISM OF INTERACTION WITH OLEIC ACID 67-12 M02-83367
TANTALUM COMPOUNDS, BINARY SYSTEMS
THE REACTION OF VANADIUM, NIOBIUM, AND TANTALUM DIBORIDES WITH CARBON 67-02 M09-61791
INVESTIGATION OF SI-TA2O5 SYSTEM PREPARED BY REACTIVE SPUTTERING 67-02 M16-60521
SUPERCONDUCTIVITY OF THE TRANSITION-METAL CARBIDES 67-10 M16-78733
TANTALUM COMPOUNDS, COATING
DEPOSITION OF TANTALUM, TANTALUM OXIDE, AND TANTALUM NITRIDE WITH CONTROLLED ELECTRICAL CHARACTERISTICS 67-01 M12-57107
TANTALUM COMPOUNDS, COATINGS
THERMODIFFUSION INTERACTION OF TANTALUM WITH BORON CARBIDE POWDER IN A VACUUM 67-04 M14-67045
DEPOSITION OF TANTALUM AND TANTALUM OXIDE BY SUPERIMPOSED RF AND D-C SPUTTERING 67-07 M12-73458
TANTALUM COMPOUNDS, COMPOSITE MATERIALS
PROPERTIES OF ZRB2-TAB2 ALLOYS CONTAINING CR 67-05 M09-68236
TANTALUM COMPOUNDS, CRYSTAL GROWTH
TRANSPORT REACTIONS OF THE SILICIDES AND BORIDES OF TRANSITION METALS 67-03 M14-65184
TANTALUM COMPOUNDS, CRYSTAL STRUCTURE
STUDIES ON STRUCTURAL DEFECTS IN WOLFRAM TRIOXIDE., INFLUENCE OF MINOR ADDITIONS OF TANTALA OR NIOBIA 67-02 M13-60923
TANTALUM COMPOUNDS, DEPOSITION
TANTALUM OXIDE FILMS PREPARED BY OXYGEN PLASMA ANODIZATION AND REACTIVE SPUTTERING 67-09 M12-76750
TANTALUM COMPOUNDS, DIFFUSION
THE DIFFUSION OF CARBON IN TANTALUM MONOCARBIDE 67-06 M14-71614
TANTALUM COMPOUNDS, ELECTRICAL PROPERTIES
EFFECT OF TEMPERATURE AND COMPOSITION ON THE PHASES OF THE SYSTEM TANTALUM-CARBON ELECTRICAL CONDUCTIVITY OF THE BETA- AND GAMMA- 67-02 M15-61670
TANTALUM COMPOUNDS, EVAPORATION
THE EVALUATION OF GRAVIMETRIC MEASUREMENTS DURING EVAPORATION OF TWO COMPOUNDS FROM A BINARY SOLUTION 67-01 M14-57295
SOME EXPERIMENTS IN THE REACTIVE EVAPORATION OF TANTALUM OXIDE 67-08 M14-75160
TANTALUM COMPOUNDS, EXTRACTION
CHLORINATION OF TANTALUM-NIOBIUM CONCENTRATES UNDER LABORATORY CONDITIONS 67-11 M02-81230
TANTALUM COMPOUNDS, MECHANICAL PROPERTIES
SOME PROPERTIES OF WC-20 PER CENT CO AND WC-5 PER CENT TAC-20 PER CENT CO ALLOYS 67-02 M17-60151
TANTALUM COMPOUNDS, MICROSTRUCTURE
ON THE SUPERSTRUCTURES OF TA2O5 AND NB2O5 67-06 M13-70985
TANTALUM COMPOUNDS, PHASES /STATE OF MATTER/
ISOLATION OF THE ZETA PHASE IN THE SYSTEM TANTALUM-CARBON 67-06 M14-71168
STACKING FAULTS IN A NON-STOICHIOMETRIC FACE-CENTERED CUBIC TAC 67-12 M13-82001
TANTALUM COMPOUNDS, PHYSICAL PROPERTIES
MEASUREMENT OF THE THERMAL CONDUCTIVITY AND ELECTRICAL CONDUCTIVITY OF ZRC, HFC, NBC AND TAC AT HIGH TEMPERATURES 67-01 M15-58057
MELTING POINTS OF ZRC-HFC, TAC-ZRC AND TAC-HFC SYSTEMS 67-05 M15-68710
SOME PHYSICAL PROPERTIES OF ALLOYS OF THE ZRC-NBC AND TAC-HFC SYSTEMS 67-06 M15-71472
MELTING POINT IN SYSTEMS ZRC-HFC, TAC-ZRC, TAC-HFC 67-12 M15-82686
SOME PHYSICAL PROPERTIES OF ALLOYS OF THE SYSTEMS ZRC-NBC AND TAC-HFC 67-12 M15-82793
TANTALUM COMPOUNDS, REACTIONS /CHEMICAL/
STRUCTURE OF THE OXIDES OF TANTALUM 67-05 M14-69290
THE REACTION OF SOME NOBLE AND TRANSITION METALS WITH REFRACTORY CARBIDES 67-06 M14-70892

TANTALUM COMPOUNDS
STABILITY OF THE HYDRIDES OF CERTAIN TRANSITION METALS WHEN HEATED IN VACUUM 67-06 M15-70160
OXIDATION DATA FOR MOS2, WS2, WSE2, TAS2 AND TASE2 BY THERMOGRAVIMETRIC ANALYSIS 67-08 M14-76196
TANTALUM COMPOUNDS, THERMAL PROPERTIES
HIGH-TEMPERATURE THERMAL EXPANSION OF CERTAIN GROUP 4 AND GROUP 5 DIBORIDES 67-06 M15-71162
IMPREGNATED TANTALUM CARBIDE 67-11 M05-80249
EFFECT OF STOICHIOMETRY ON THE THERMAL EXPANSION OF TACX 67-12 M15-82996
TANTALUM COMPOUNDS, THIN FILMS
DEFORMATION OF ANODIC OXIDE FILMS 67-02 M17-61764
TANTALUM COMPOUNDS, TRANSPORT PROPERTIES
PHOTOCONDUCTION AND TRAPPING IN SPUTTERED TANTALUM OXIDE FILMS 67-05 M15-68283
VACUUM THERMIONIC WORK FUNCTIONS AND THERMAL STABILITY OF TAB2, ZRC, MO2C, MOSI2, TASI2 AND WSI2 67-08 M16-75125
TANTALUM COMPOUNDS, X RAY ANALYSIS
GRAIN BOUNDARY MIGRATION IN HOT-PRESSED TANTALUM CARBIDE 67-04 M19-67273
THE LBETA 2 LINE OF THE TANTALUM X-RAY FLUORESCENCE SPECTRUM IN THE METAL PROPER AND IN SOME OF ITS REFRACTORY COMPOUNDS 67-10 M16-79729
TAPER ROLLER BEARINGS, MACHINING
DIAMOND DRESSING IN THE PRODUCTION OF TAPERED ROLLER BEARINGS 67-01 M08-58786
TAPES, MECHANICAL PROPERTIES
DYNAMIC STRENGTH OF TENSION MEMBERS --EXTENDERS-- MADE OF MR47-VP MO-RE ALLOY 67-12 M17-81994
TAPES /DATA MEDIA/
SEE MAGNETIC TAPE
TAPPING /METAL/
NEW ANHYDROUS MASS FOR SEALING TAPPING HOLES OF BLAST FURNACES 67-01 M04-57149
USE OF A COMPUTER IN PLOTTING A GRAPH OF IRON TAPPINGS 67-02 M04-61863
WORKING OUT THE PIG-IRON CASTING SCHEDULE WITH THE AID OF A COMPUTER 67-04 M04-67682
PERFORMANCE OF MULTIHOLE COMPARED WITH SINGLE-HOLE LANCE NOZZLES IN BASIC OXYGEN LD STEELMAKING. PT. 2. STUDY OF LANCE NOZZLES IN BASIC OXYGEN LD PROCESS 67-06 M04-72205
THE DROP IN TEMPERATURE BETWEEN THE END POINT OF THE BLOW AND THE TAP IN THE BASIC OXYGEN LD PROCESS. PT. 1. THE TEMPERATURE DROP BETWEEN END POINT OF BLOW AND POURING IN THE BASIC OXYGEN LD PROCESS 67-06 M04-72387
EFFECTIVENESS OF VARIOUS METHODS OF LINING LAUNDERS 67-07 M04-74135
TAPPING DEVICES FOR OPENHEARTH FURNACES 67-09 M04-77499
TAPPING /THREADS/
316SM 67-03 M08-65863
TAPPING AN IMPOSSIBLE STEEL 67-06 M08-71890
A STUDY ON TAPPING WROUGHT ALUMINUM. PT. 1 67-12 M08-83109
TAPPING SCREWS
HEAT-TREATING 65 MILLION SCREWS PER WEEK 67-04 M10-68055
TAPPING SCREWS, STANDARDS
IMPROVEMENTS COMING FOR TAPPING SCREWS 67-08 M19-76099
TAPS, MECHANICAL PROPERTIES
BREAKING TORQUE OF TAPS 67-12 M17-82300
TARNISHING
PREVENTION OF TARNISHING OF SILVER SURFACE 67-01 M18-58710
REDUCTION OF TARNISHING OF ELECTROPLATED SILVER 67-02 M12-59046
STRUCTURE OF TARNISH FILMS ON STRESS-CORROSION FRACTURE SURFACES OF TI-5 PER CENT AL-2.5 PER CENT SN ALLOY TESTED IN NITROGEN TETROXIDE 67-12 M18-82871
TAU PHASE
THE TAU PHASE IN THE CO-TI-B TERNARY SYSTEM 67-05 M13-68583
TEAR
SEE TEARING
TEARING
INVESTIGATION OF HOT TEARING AND MECHANISM OF CRACK FORMATION IN CAST STEEL. PRACTICAL CRACK SENSITIVITY TEST PIECE 67-02 M17-60221
HOT TEARS IN WHITE IRON CASTINGS. PT. 1 67-03 M06-65834
HOT TEARS IN WHITE CAST IRON. PT. 2 67-04 M06-67499
STUDIES ON THE HOT TEARING OF AL-CU ALLOYS 67-05 M06-68949
HOT TEARS IN WHITE IRON. PT. 3 67-06 M06-70589
HOT TEARS IN WHITE IRON. PT. 4 67-06 M06-71008
EXPERIENCES WITH INGOT MOLDS OF NODULAR CAST IRON. PT. 2. SERVICE PERFORMANCE IN THE STEEL MILL OF INGOT MOLDS OF NODULAR CAST IRON 67-07 M04-73010
INFLUENCES OF MOLDING SAND, MOLD HARDNESS AND POURING TEMPERATURE UPON HOT TEARING IN WHITE CAST IRON 67-08 M06-74619
COPPER BASE CASTING ALLOYS. HOT TEARING AND MODE OF SOLIDIFICATION. PT. 1. HOT TEARING OF COPPER BASE ALLOYS 67-08 M06-75033
CAUSES OF BROKEN EDGES IN HOT STRIP ROLLING 67-09 M07-76714
SEGREGATION AND INCLUSIONS IN ZIRCONIUM-CONTAINING MAGNESIUM CASTING ALLOYS 67-10 M19-79751
REASONS FOR HOT LONGITUDINAL TEARS ON ROUND INGOTS 67-11 M04-81444
HOT TEARING OF ALUMINUM ALLOYS 67-11 M06-81189
SURFACE DEFECTS OF STEEL CASTINGS 67-12 M06-83571
TEARING, ALLOYING EFFECTS
INFLUENCE OF CARBON, SILICON AND BORON ON HOT TEARING IN WHITE CAST IRON 67-05 M06-68951
HOT TEARING OF STEEL INGOTS 67-12 M04-83570
TEARING, WELDING EFFECTS
WELDING METALLURGY OF CAST AUSTENITIC MATERIALS 67-06 M11-70536
TECHNETIUM, COATINGS
ELECTRODEPOSITION OF TC99 FROM AQUEOUS SOLUTION 67-05 M12-68618
TECHNETIUM, ELECTRICAL PROPERTIES
THE TRANSITION TEMPERATURE OF SUPERCONDUCTING TECHNETIUM-RHENIUM ALLOYS 67-02 M15-61530
THE ELECTRICAL RESISTIVITY OF TECHNETIUM FROM 8.0 TO 1700 K 67-05 M15-68213
TECHNETIUM, INTERMETALLICS
SUPERCONDUCTIVITY AND ISOTOPE EFFECT IN BE22X COMPOUNDS AND MOLYBDENUM 67-06 M16-71989
THE REFINEMENT OF THE STRUCTURES OF THE INTERMETALLIC PHASES REAL6 AND TCAL6 67-08 M13-76137
TECHNETIUM, SUPERCONDUCTIVITY
SUPERCONDUCTIVITY OF TECHNETIUM AND TECHNETIUM CARBIDE 67-03 M15-65133
SUPERCONDUCTING PROPERTIES OF TECHNETIUM 67-06 M16-71790
TECHNETIUM COMPOUNDS, SUPERCONDUCTIVITY
SUPERCONDUCTIVITY OF TECHNETIUM AND TECHNETIUM CARBIDE 67-03 M15-65133
TEE JOINTS, MECHANICAL PROPERTIES
T-JOINT WELDING OF REINFORCED STEEL 67-04 M11-66576
FATIGUE STRENGTH OF WELDED JOINTS FOR PIPE CONNECTORS 67-04 M17-66462
T WELDS IN REINFORCEMENT STEEL 67-07 M11-73433
TEEMING
SEE POURING
TEETH /GEAR/
SEE GEAR TEETH
TELECOMMUNICATION SYSTEMS
SEE ELECTRIC COMMUNICATION SYSTEMS
TELEVISION
AN ULTRASONIC IMAGING LAMB-WAVE SYSTEM FOR REACTOR-FUEL-PLATE INSPECTION 67-05 M16-68801
TELEVISION EQUIPMENT
COMPARISON BETWEEN ULTRASONIC INSPECTION SYSTEMS--MECHANICAL SCAN VERSUS TELEVISION IMAGING 67-07 M19-73317
HANDBOOK OF MATERIALS AND TECHNIQUES FOR VACUUM DEVICES 67-11 M01-80198
TELLURIDES
TELLURIUM AND TELLURIDES 67-08 M01-74878
TELLURIDES, ATOMIC PROPERTIES
ON THE BONDING IN BISMUTH TELLURIDE 67-05 M16-69792
PHOTOEMISSION STUDIES OF CDTE 67-12 M16-82535
TELLURIDES, BAND THEORY
STUDY OF THE NONPARABOLICITY OF THE PBTE VALENCE BAND BY MEASUREMENTS OF THE THERMAL EMF IN A STRONG MAGNETIC FIELD 67-03 M16-65460
SHUBNIKOV-DE HAAS EFFECT OF N-TYPE HGTE 67-03 M16-65647
PHOTOEMISSION STUDY OF THE ELECTRONIC STRUCTURE OF CDTE 67-06 M16-72095
TELLURIDES, BINARY SYSTEMS
PERMITTIVITY OF SOLID SOLUTIONS IN THE SYSTEM

ZNXHG1-XTE 67-07 M16-73998
TELLURIDES, CRYSTAL GROWTH
EPITAXIAL FILMS OF ZNTE ON IONIC SUBSTRATES 67-02 M14-59013
SOLUBILITY OF ZNSE AND ZNTE IN GA AND IN 67-03 M16-65388
CRYSTAL GROWTH AND ORIENTATION OF VACUUM DEPOSITED FILMS OF CDTE 67-07 M14-73318
PREPARATION AND SOME PROPERTIES OF SOLID SOLUTIONS CD1-XMGXTE 67-08 M14-75058
POLYMORPHISM IN SOME IV-VI COMPOUNDS INDUCED BY HIGH PRESSURE AND THIN-FILM EPITAXIAL GROWTH 67-08 M14-75552
IMPROVED METHOD FOR GROWING 2-6 CRYSTALS FROM THE VAPOR PHASE 67-08 M14-75997
TELLURIDES, CRYSTAL LATTICES
DIRECT OBSERVATION OF INTERACTING DISLOCATION LOOPS FROM DIFFERENT SOURCES IN BI2TE3 67-03 M13-65135
X-RAY DIFFRACTION STUDIES ON CDTE AT HIGH PRESSURE 67-03 M13-65719
CHALCOGENIDES OF THE TRANSITION ELEMENTS. PT. 5. CRYSTAL STRUCTURES OF THE DISULFIDES AND DITELLURIDES OF RUTHENIUM AND OSMIUM 67-09 M13-76446
DEFECTS IN THE COMPOUND BI2TE3 CAUSED BY IRRADIATION WITH PROTONS 67-10 M16-79152
VARIATION OF THE MEAN-SQUARE DYNAMIC DISPLACEMENTS OF ZINC AND CADMIUM TELLURIDES AS A FUNCTION OF THE TEMPERATURE 67-11 M14-80166
TELLURIDES, DIFFUSION
INVESTIGATION OF COPPER DIFFUSION IN BI2TE3 BY ETCHING TECHNIQUE 67-12 M14-82362
TELLURIDES, ELECTRICAL PROPERTIES
CONDUCTANCE INCREASE IN N-PBTE FILMS VIA ION BOMBARDMENT 67-04 M16-66176
OSCILLATORY PHOTOCONDUCTIVITY OF CADMIUM TELLURIDE AND ITS RELATIONSHIP TO EXCITON ABSORPTION 67-05 M16-69381
DIFFUSENESS OF FERROELECTRIC PHASE TRANSITIONS IN SOLID SOLUTIONS OF THE --BAPBCA-- TIO3 SYSTEM 67-05 M16-69392
CONDUCTIVITY RANGE AND ABSORPTION EDGE OF ZINC SELENO-TELLURIDES 67-10 M15-79120
TELLURIDES, IRRADIATION
STIMULATED EMISSION OF ELECTRON-BEAM-PUMPED ZINC TELLURIDE SINGLE CRYSTALS 67-10 M16-79462
TELLURIDES, MAGNETIC PROPERTIES
OSCILLATORY THERMOMAGNETIC EFFECTS IN LEAD TELLURIDE 67-07 M15-72950
CU-NMR IN PARAMAGNETIC AND FERROMAGNETIC CUCR2SE4 67-07 M15-73297
INVESTIGATION OF THE MAGNETIC PROPERTIES OF NEODYMIUM MONOCHALCOGENIDES AT 4.2-150 K 67-07 M15-73704
TELLURIDES, MECHANICAL PROPERTIES
THE ELASTIC CONSTANTS OF MERCURY TELLURIDE 67-12 M17-82288
TELLURIDES, METALLOGRAPHY
THINNING OF BI2TE3 SPECIMENS FOR TRANSMISSION ELECTRON MICROSCOPY 67-05 M13-69423
TELLURIDES, OPTICAL PROPERTIES
OPTICAL ABSORPTION, PHOTOCONDUCTIVITY, SPONTANEOUS AND STIMULATED LIGHT EMISSION INVOLVING EXCITON STATES IN CDTE 67-04 M16-66749
FREE CARRIER OPTICAL CONSTANTS OF SNTE 67-06 M16-70469
OPTICAL PROPERTIES OF GETE 67-07 M15-73296
OPTICAL PROPERTIES OF ZINC TELLURIDE 67-08 M15-74668
INFRARED LATTICE REFLECTION SPECTRA OF 2-6 COMPOUNDS 67-08 M15-75937
OPTICAL PROPERTIES OF ZINC TELLURIDE IN THE INFRARED 67-08 M15-76168
TELLURIDES, PHASE TRANSFORMATIONS
ON THE TELLURIDES OF NICKEL 67-05 M14-69088
THE SOLIDIFICATION OF BI2TE3 AND ITS SOLID SOLUTIONS WITH BI2SE3 AND SB2TE3 UNDER THE INFLUENCE OF ULTRASONIC AGITATION 67-06 M14-70664
HIGH-PRESSURE AND HIGH-TEMPERATURE TRANSFORMATIONS OF RARE EARTH MONOCHALCOGENIDES 67-07 M14-72452
INVESTIGATION OF THE PHASE TRANSITION AND THE STRUCTURE OF ALPHA-GETE 67-09 M14-76771
PHASE TRANSITION IN GERMANIUM TELLURIDE AT HIGH PRESSURES 67-10 M13-79544
TELLURIDES, PHASES /STATE OF MATTER/
INVESTIGATION OF THE PBTE-SB2TE3 SYSTEM 67-02 M13-58870
GERMANIUM TELLURIDE PHASE TRANSFORMATION UNDER HIGH PRESSURE 67-06 M14-72034
TELLURIDES, PHYSICAL PROPERTIES
CYCLOTRON ABSORPTION IN N-TYPE LEAD TELLURIDE 67-02 M16-59473
THERMAL AND OPTICAL ENERGY GAPS IN PBTE 67-03 M16-65884
THE CHEMICAL BOND IN BISMUTH TELLURIDE 67-11 M16-80175
DETERMINATION OF THE REDUCED EFFECTIVE MASS IN ZINC SELENIDE 67-11 M16-81689
TELLURIDES, RADIATION COUNTERS
POSSIBLE USE OF CADMIUM TELLURIDE FOR N-P GAMMA-RAY DETECTORS 67-05 M16-68400
TELLURIDES, RADIATION EFFECTS
THRESHOLD ENERGY FOR ATOMIC DISPLACEMENT IN CADMIUM TELLURIDE 67-11 M16-80617
TELLURIDES, REFINING
ZONE MELTING OF LEAD TELLURIDE 67-09 M14-76849
TELLURIDES, SEMICONDUCTORS
EFFECTS OF IMPURITY-VACANCY COMPLEX ON THE DEGREE OF COMPENSATION IN COMPOUND SEMICONDUCTORS 67-02 M16-59058
THE CRYSTALLINE STRUCTURE OF ZNTE THIN FILMS 67-03 M13-65223
CRITICAL MAGNETIC FIELDS OF SUPERCONDUCTING SNTE 67-03 M16-65142
X-RAY DIFFRACTION AND OPTICAL OBSERVATIONS ON CRYSTALLINE SOLIDS UP TO 300 KBAR 67-05 M13-68652
ELECTRIC CONDUCTIVITY STUDIES OF P-GATE POLYCRYSTALS AND SINGLE CRYSTALS IN STRONG ELECTRIC FIELDS 67-08 M16-75218
PRODUCTION OF THERMOELECTRIC MATERIALS BASED ON BI2TE3 SOLID SOLUTION OF BI2TE3-SB2TE3 WITH A GIVEN DISTRIBUTION OF IMPURITIES 67-11 M16-81317
PIEZORESISTANCE EFFECT IN P-TYPE PBTE 67-11 M16-81486
TELLURIDES, SINGLE CRYSTALS
EPITAXIAL FILMS OF PBTE, PBSE AND PBS GROWN ON MICA SUBSTRATES 67-10 M15-79337
PREPARATION OF ZNSEXTE1-X CRYSTALS BY VAPOR TRANSPORT 67-12 M14-82676
TELLURIDES, SURFACE FINISHING
CHEMICAL POLISHING METHODS FOR ZNTE 67-10 M12-79972
TELLURIDES, SYNTHESIS
HYDROTHERMAL SYNTHESIS OF METALLIC AND NONMETALLIC TELLURIDES 67-08 M14-76057
TELLURIDES, THERMAL PROPERTIES
NEW DATA ON THE INFLUENCE OF CHARGED AND NEUTRAL IMPURITIES ON THE THERMAL CONDUCTIVITY OF THE CRYSTAL LATTICE OF BI2TE3 67-05 M16-69385
ON THE MECHANISM OF THERMAL CONDUCTIVITY IN --GASB--3X---GA2TE3--1-X AND --GASB--X---GATE-- 1-X SOLID SOLUTIONS 67-08 M15-75237
STUDY OF THE THERMODYNAMIC PROPERTIES OF CERTAIN SEMICONDUCTING ALLOYS BY THE ELECTROMOTIVE-FORCE METHOD 67-11 M15-80159
AN ATTEMPT TO DETERMINE EXPERIMENTALLY THE PHASE VELOCITY OF A HEAT WAVE IN SEMICONDUCTING BISMUTH TELLURIDE AT ROOM TEMPERATURE 67-11 M15-80508
TELLURIDES, THERMODYNAMICS
THERMODYNAMIC ASPECTS OF THE TEMPERATURE-PRESSURE PHASE DIAGRAM OF INTE 67-01 M15-57115
TELLURIDES, TRANSPORT PROPERTIES
PROPERTIES OF MERCURY TELLURIDE THIN FILMS 67-03 M16-65735
MAGNETORESISTANCE STUDIES OF HGTE AT LOW TEMPERATURES 67-04 M16-66769
THE FERMI SURFACE OF TIN TELLURIDE--SHUBNIKOV-DE HAAS EFFECT 67-04 M16-66771
TEMPERATURE DEPENDENCE OF THE HALL COEFFICIENT IN P-PBTE 67-05 M16-69397
TEMPERATURE DEPENDENCE OF THE HALL COEFFICIENT IN N-PBTE 67-05 M16-69398
BEHAVIOR OF PHOSPHORUS IN CADMIUM TELLURIDE 67-05 M16-69399
HALL EFFECT IN SEMICONDUCTORS WITH TWO TYPES OF CARRIER 67-06 M16-70868
INTERPRETATION OF THE HALL COEFFICIENT, ELECTRICAL RESISTIVITY AND SEEBECK COEFFICIENT OF P-TYPE LEAD TELLURIDE 67-08 M15-74388
RADIATION DAMAGE IN CADMIUM SULFIDE AND CADMIUM TELLURIDE 67-08 M16-75126
THERMOSTIMULATED CURRENTS IN P-TYPE CADMIUM

TELLURIDES

TELLURIDE SINGLE CRYSTALS 67-09 M15-76738
INFLUENCE OF HYDROSTATIC PRESSURE ON THE ELECTRIC PROPERTIES OF SINGLE CRYSTALS OF THE SOLID SOLUTION 0.85PBTE PLUS 0.15PBS 67-09 M15-76774
ANOMALOUSLY HIGH-MOBILITY PBTE 67-09 M16-77016
OPTICAL ENERGY GAPS OF PBSE-SNTE, PBSE-SNSE, PBTE-SNTE AND PBTE-SNSE 67-10 M16-79335
TEMPERATURE DEPENDENCE OF STIMULATED EMISSION OF ELECTRON-BEAM-PUMPED CDTE 67-10 M16-79468

TELLURIUM
TELLURIUM AND TELLURIDES 67-08 M01-74878

TELLURIUM, ACOUSTIC PROPERTIES
ULTRASONIC AMPLIFICATION AND NONOHMIC BEHAVIOR IN TELLURIUM 67-04 M16-66777
ACOUSTOELECTRIC PHENOMENA IN TELLURIUM 67-04 M16-66778

TELLURIUM, ALLOYING ADDITIVE
WHY NOT TELLURIUM STEELS 67-02 M01-59031
COMBINED ACTION OF SURFACE-ACTIVE AGENTS ON THE NUMBER OF GRAPHITIZATION NUCLEI IN CUPOLA MELTED MALLEABLE IRON 67-08 M14-74546

TELLURIUM, ATOMIC PROPERTIES
ELECTRONIC BAND STRUCTURE OF TELLURIUM 67-10 M16-79357

TELLURIUM, BAND THEORY
SHUBNIKOV-DE HAAS EFFECT IN TELLURIUM 67-04 M16-66770

TELLURIUM, BINARY SYSTEMS
THE QUASIBINARY SYSTEM INTI-INBI 67-02 M13-59441
CONDUCTIVITY MEASUREMENTS IN THE THALLIUM-TELLURIUM SYSTEM 67-02 M15-60880
INVESTIGATION OF THE BI2S3-SB2TE3 SYSTEM 67-04 M13-66011
STUDY OF THE ELECTROCONDUCTIVITY AND VISCOSITY OF MELTS IN THE BI-SE, BI-TE AND SB-TE SYSTEMS 67-04 M15-66867
EFFECT OF THE TEMPERATURE ON THE CHANGE IN THE CONCENTRATION OF CONDUCTION ELECTRONS IN BISMUTH DUE TO THE PRESENCE OF ELEMENTS OF THE 4 AND 6 GROUPS 67-04 M16-67052
P-T-X PHASE DIAGRAM OF THE LEAD TELLURIDE SYSTEM 67-06 M15-72046
PHASE RELATIONS AND THERMOELECTRIC PROPERTIES OF THE ALLOY SYSTEMS, SNTE-BI2TE3 AND PBTE-SB2TE3 67-07 M14-73462
ELECTRONIC PROCESS IN GAMMA IRON TELLURIDE 67-08 M15-75919
PHASE DIAGRAM AND PROPERTIES OF ALLOYS IN THE TI2TE3-SB2TE3 SYSTEM 67-09 M13-76848
PHASE DIAGRAM OF THE NEODYMIUM-TELLURIDE SYSTEM, AND THE PROPERTIES OF THE PHASES 67-09 M13-76941
PHASE DIAGRAM OF THE PEUDO-BINARY SYSTEM AG2TE-IN2TE3 AND SEMICONDUCTING PROPERTIES OF AGIN9TE14 67-09 M13-77899
INVESTIGATION OF THE PBSE-GESE AND GESE-GETE SYSTEMS 67-12 M13-83352
PHASE DIAGRAM OF THE ALLOY SYSTEM HGTE-CDTE 67-12 M14-82002

TELLURIUM, CHEMICAL PROPERTIES
THE CHEMICAL BOND AND THE STRUCTURE OF VALENCE BANDS IN COVALENT SEMICONDUCTORS 67-11 M15-80154

TELLURIUM, CRYSTAL LATTICES
INFRARED ACTIVE LATTICE MODES IN TELLURIUM 67-06 M16-71169

TELLURIUM, DIFFUSION
INTER-DIFFUSION IN DILUTE CU-S, CU-SE AND CU-TE LIQUID COPPER BASE ALLOYS 67-01 M14-58747
STRESS-ENHANCED DIFFUSION IN COPPER-TELLURIUM COUPLES 67-03 M14-65088
SELF-DIFFUSION IN TELLURIUM. PT. 1. ANISOTROPY AND IMPURITY EFFECT 67-07 M14-73934
SELF-DIFFUSION IN TELLURIUM. PT. 2. GRAIN BOUNDARY AND DISLOCATION EFFECTS 67-07 M14-73935
DIFFUSION OF THE CHALCOGENS IN THE 2-6 COMPOUNDS 67-09 M14-77174

TELLURIUM, ELECTRICAL PROPERTIES
NONOHMIC AND OSCILLATORY BEHAVIORS AT STRONG ELECTRIC FIELD IN TELLURIUM 67-11 M15-80815

TELLURIUM, EXTRACTION
USE OF TRACERS FOR DETERMINING TELLURIUM LOSSES DURING RECOVERY FROM SODA-TELLURIUM SLAGS 67-02 M03-59957
FIRE REFINING OF CRUDE LEAD AT THE UKSTSK LEAD-ZINC COMBINE 67-02 M03-60564
STUDY OF TELLURIUM EXTRACTION FROM ALKALINE SOLUTIONS 67-04 M03-67125
SINTER-ROASTING OF COPPER ELECTROLYTIC SLIMES WITH SODA IN A SHAFT FURNACE 67-05 M03-68228
EXTRACTION OF SELENIUM AND TELLURIUM FROM SULFURIC ACID AND CELLULOSE-PAPER PRODUCTION SLIMES BY THE SULFIDIC METHOD 67-06 M03-72116
ABSORPTION OF TE FROM HYDROCHLORIC ACID SOLUTIONS WITH WOFATIT-SBW 67-11 M03-80338
INVESTIGATION OF CONDITIONS OF ROASTING A COPPER-PYRITE CONCENTRATE CONTAINING AN INCREASED AMOUNT OF RARE METALS 67-11 M03-81617

TELLURIUM, FABRICATION
FABRICATION OF TELLURIUM THIN FILM TRANSISTOR 67-09 M16-78184

TELLURIUM, INTERMETALLICS
PREPARATION OF HOMOGENEOUS HGTE-ZNTE ALLOYS 67-02 M14-61770
ELECTRICAL PROPERTIES OF GASB-GA2TE3 AND GASB-GATE SOLID SOLUTIONS 67-02 M15-61521
INFLUENCE OF THE LEG SIZE AND MECHANICAL SURFACE TREATMENT ON THE THERMOELECTRIC PROPERTIES OF THERMOCOUPLES OF SB2TE3/BI2TE3 AND BI2TE3/BI2SE3 67-02 M16-60126
SOME CROSS-SUBSTITUTIONAL ALLOYS OF CDTE 67-02 M16-61765
THE INFLUENCE OF EXCESS NONSTOICHIOMETRIC BI ON THE THERMAL CONDUCTIVITY OF CRYSTAL LATTICES OF BI2TE3, BI2TE3-SB2-TE3 AND BI2TE3-BI2S3 WITH IODINE ADDITIONS 67-03 M15-65383
L2TE5 TELLURIDES OF RARE EARTH METALS 67-04 M14-66341
NATURE OF THE DEFECTS IN GERMANIUM TELLURIDE 67-05 M16-69578
SUPERCONDUCTING HOMOGENEOUS INTI AND PBBI FILMS EVAPORATED FROM A SINGLE SOURCE 67-08 M12-76152
DISCREPANCIES FROM A PERFECT MATCH IN THE ETCH PATTERNS ON THE OPPOSITE CLEAVAGE FACES IN BI2TE3 67-09 M13-77447
EFFECT OF PRESSURE ON THE CURIE TEMPERATURE OF CRTE AND MNSB COMPOUNDS OF NICKEL ARSENIDE TYPE 67-10 M15-78717
ON THE THERMAL CONDUCTIVITY OF CDTE AND SOME CDTE1 MINUS X SX AND CDTE1 MINUS X SEX SOLID SOLUTIONS 67-10 M15-79007
INFLUENCE OF THE SAMPLE GEOMETRY ON FREQUENCY AND Q-VALUE OF THE HELICON RESONANCE IN PBTE 67-10 M16-79356
PROPERTY VARIATIONS DUE TO SINTERING OF BI2TE3 THERMOELEMENTS MADE BY POWDER METALLURGY 67-11 M09-81068
A THERMODYNAMIC INVESTIGATION OF THE COMPOUNDS, IN3SBTE2, INSB, AND INTE 67-11 M15-81348
CHANGES PRODUCED IN THERMOELECTRIC MATERIALS BY THERMAL-NEUTRON IRRADIATION 67-11 M16-80304

TELLURIUM, MECHANICAL PROPERTIES
ELASTIC CONSTANTS OF TRIGONAL SELENIUM 67-11 M17-81099

TELLURIUM, MICROSTRUCTURE
SUBSTRUCTURES OF SB-DOPED TE CRYSTALS 67-04 M13-67242

TELLURIUM, OPTICAL PROPERTIES
OSCILLATORY MAGNETO-ABSORPTION IN TELLURIUM 67-04 M16-66752

TELLURIUM, OXIDATION
KINETICS OF OXIDATION OF TE 67-08 M18-75903

TELLURIUM, PHYSICAL PROPERTIES
MOSSBAUER FRACTIONS AND SPECIFIC HEAT OF TELLURIUM 67-10 M15-78718

TELLURIUM, REACTIONS /CHEMICAL/
MECHANISM OF THE INTERACTION OF ELEMENTARY TE AND SE WITH AL POWDER IN AN ALKALI MEDIUM 67-05 M03-68967

TELLURIUM, REFINING
PURIFYING TELLURIUM BY ZONE MELTING 67-05 M03-69538
STUDY OF ZONAL RECRYSTALLIZATION OF TELLURIUM 67-09 M03-76875

TELLURIUM, RESONANT FREQUENCY
CYCLOTRON RESONANCE IN TELLURIUM AT SUBMILLIMETER WAVELENGTHS 67-04 M16-66754

TELLURIUM, SINGLE CRYSTALS
ANISOTROPIC SHIFT IN THE NUCLEAR MAGNETIC RESONANCE LINE IN TELLURIUM SINGLE CRYSTALS 67-11 M16-81682

TELLURIUM, SURFACE PROPERTIES
TEMPERATURE EFFECT OF CONDUCTIVITY OF TELLURIUM FILMS IN A MODULATING ELECTRIC FIELD

67-04 M16-66181
TELLURIUM, TERNARY SYSTEMS
THE TERNARY SYSTEM INDIUM TELLURIDE-INDIUM ANTIMONIDE-ANTIMONY 67-02 M14-61594
THE TERNARY CONDENSED PHASE DIAGRAM OF THE GA-AS-TE SYSTEM 67-03 M14-65428
THE RECIPROCAL INFLUENCES OF SOME TE IMPURITIES UPON THEIR SEGREGATIONIST BEHAVIOR 67-07 M03-73834
THE SYSTEM GE-SE-TE AND THE PREPARATION AND PROPERTIES OF THE NEW NON-STOICHIOMETRIC COMPOUND GESEO.75TEO.25 67-09 M14-77015
THE PHASE AB2 IN THE TERNARY SYSTEMS LA-SB-TE AND LA-SN-SB 67-10 M14-78479
CHEMICAL BOND AND STRUCTURE OF THE TERNARY COMPOUND INASTE 67-11 M01-80234
THE STRUCTURE OF SEMICONDUCTOR AG2TE-GA2TE3 ALLOYS 67-12 M13-82493
TELLURIUM, TRANSPORT PROPERTIES
ELECTRICAL PROPERTIES OF TELLURIUM DOPED WITH IODINE 67-03 M16-65459
INTERNAL DEFECT PHENOMENA IN TE 67-07 M16-73833
TELLURIUM BASE ALLOYS, THERMODYNAMICS
THERMODYNAMIC CHARACTERISTICS OF THE THALLIUM-TELLURIUM SYSTEM 67-01 M15-58000
TELLURIUM BASE ALLOYS, THERMOELECTRIC GENERATORS
VARIATIONS IN PROPERTIES OF SINTERED THERMOELEMENTS 67-01 M09-58319
EFFECTS OF POWDER OXIDATION ON SINTERED THERMOELEMENTS 67-01 M09-58320
TELLURIUM COMPOUNDS, BAND THEORY
STRUCTURE OF THE VALENCE BAND OF HEAVILY DOPED LEAD TELLURIDE 67-06 M16-76503
TELLURIUM COMPOUNDS, BENEFICIATION
BEHAVIOR OF TELLURIUM DURING FLOTATION OF GOLD ORES AND SEPARATION OF TELLURIUM CONCENTRATES FROM GOLD ORES 67-12 M02-83474
TELLURIUM COMPOUNDS, CHEMICAL ANALYSIS
PHASE ANALYSIS BY CHEMICAL METHODS IN ORES AND MINE PRODUCTS 67-05 M19-69120
TELLURIUM COMPOUNDS, CRYSTAL GROWTH
REPRODUCIBLE PREPARATION OF SN1-XPBXTE EPITAXIAL FILMS WITH MODERATE CARRIER CONCENTRATIONS 67-02 M14-61823
THE PREPARATION OF PBTE CRYSTALS 67-06 M14-71141
TELLURIUM COMPOUNDS, CRYSTAL LATTICES
PREPARATION OF HEXAGONAL CADMIUM TELLURIDE FILMS 67-02 M14-61660
DISLOCATION STUDIES IN BI2TE3 BY ETCH-PIT TECHNIQUE 67-07 M13-72627
THE CRYSTAL CHEMISTRY OF SELECTED AB2 RARE EARTH COMPOUNDS WITH SELENIUM, TELLURIUM, AND ANTIMONY 67-12 M13-81736
TELLURIUM COMPOUNDS, METALLOGRAPHY
THE ETCHING OF BI--2-Y--SBYTEXSE--3-X-- 67-03 M13-65905
TELLURIUM COMPOUNDS, NUCLEAR PROPERTIES
ULTRASONIC RELAXATION AT THE NEEL TEMPERATURE AND NUCLEAR ACOUSTIC RESONANCE IN MNTE 67-09 M16-76373
TELLURIUM COMPOUNDS, OPTICAL PROPERTIES
ANOMALOUS POLARITY-DEPENDENT ELECTRO-OPTIC EFFECT IN CUBIC ZNS AND ZNTE 67-02 M15-60686
THE ULTRAVIOLET ABSORPTION SPECTRUM OF TESE 67-06 M16-72090
TELLURIUM COMPOUNDS, PHASE TRANSFORMATIONS
PHASE TRANSITIONS IN TEO4 AT HIGH PRESSURES 67-06 M14-70049
TELLURIUM COMPOUNDS, SUPERCONDUCTIVITY
OBSERVATION OF THE SUPERCONDUCTING ENERGY GAP IN A SEMICONDUCTOR --GETE-- 67-01 M16-58638
TELLURIUM COMPOUNDS, THERMODYNAMICS
HEAT OF FORMATION OF PB-TEO3 67-01 M15-57302
TELLURIUM COMPOUNDS, TRANSPORT PROPERTIES
EFFECT OF SUBSTRATE TEMPERATURE ON HALL COEFFICIENT OF THIN FILMS 67-01 M15-57214
BURSTEIN SHIFT OF THE FUNDAMENTAL ABSORPTION EDGE OF TIN TELLURIDE 67-01 M16-57443
ELECTRON TRANSPORT AND THERMOELECTRIC PROPERTIES OF N-TYPE BI1.75SB0.25TE3 67-02 M15-61694
SURFACE PROPERTIES OF 2-6 COMPOUNDS 67-05 M15-69818
INVESTIGATION OF THE NONPARABOLICITY OF THE CONDUCTION BAND OF PBTE BY THE METHOD OF MEASURING THE THERMOELECTRIC POWER IN A STRONG MAGNETIC FIELD 67-06 M15-70511
ELECTRICAL PROPERTIES OF BETA-AG2TE AND BETA-AG2SE FROM 4.2 TO 300 K 67-07 M15-72648
TEMPER /METALLURGICAL/
STAINLESS STEEL TUBING 67-07 M19-72933
TEMPER ANNEALING
AICHELIN NON-OXIDIZING HEAT TREATING PLANT FOR STEEL FORGINGS AT THE PASSAU GEAR WHEEL FACTORY 67-01 M10-57212
TEMPER BRITTLENESS
INVESTIGATION OF THE BRITTLENESS OF TWO HEAT RESISTANT CHROMIUM STEELS DURING CREEP 67-01 M17-58174
INVESTIGATION OF TEMPER BRITTLENESS OF SPRING STEEL 67-02 M17-60739
HIGH-STRENGTH STEELS WITH LOW NI CONTENT FOR LARGE SIZE FORGINGS 67-02 M17-61968
EFFECT OF MOLYBDENUM ON PHASE COMPOSITION AND MICROSTRUCTURE OF CHROMIUM-NICKEL STEELS 67-03 M13-65965
INVESTIGATION OF REVERSE TEMPER BRITTLENESS OF 37KHN3A STEEL 67-03 M17-65971
INVESTIGATION OF THE EFFECT OF HIGH TEMPERATURES ON THE DUCTILE PROPERTIES OF KH25T STEEL 67-04 M17-66003
TEMPER BRITTLENESS OF CAST STEEL 67-04 M17-66361
EFFECT OF PLASTIC DEFORMATION IN AUSTENITIC STATE ON TEMPER BRITTLENESS OF RAIL STEEL 67-04 M17-67618
KINETICS OF THE DEVELOPMENT OF REVERSIBLE TEMPER BRITTLENESS IN CAST STEEL 67-04 M17-67679
STUDY OF TEMPER BRITTLENESS BY A METHOD USING AMPLITUDE-DEPENDENT INTERNAL FRICTION 67-04 M17-67820
EFFECT OF TEMPERING ON THE VARIATION OF INTERNAL FRICTION AND COLD BRITTLENESS OF CARBON STEEL SUBJECTED TO CYCLIC LOAD 67-04 M17-67832
FRACTURE PROPERTIES OF HARDENED AND TEMPERED STEELS 67-04 M17-67853
RAISING THE QUALITY OF CAST STEEL 67-04 M17-67944
TEMPERING OF QUENCHED FERRITIC-AUSTENITIC CR-NI STEEL 67-04 M17-67985
STUDY OF THE DEVELOPMENT OF FATIGUE CRACKS IN STEELS SUBJECTED TO TEMPER EMBRITTLEMENT 67-05 M17-69047
USE OF SUBLAYER FOR ELECTROSLAG DEPOSIT WELDING OF G13 STEEL ON LOW-CARBON STEEL 67-06 M11-72308
THE TEMPER BRITTLENESS OF SILICON IRON 67-06 M17-70217
THE DIRECT CAUSE OF TEMPER --HOT--BRITTLENESS IN STEEL 67-06 M17-70370
35KHGF AND 30KH3MF STEELS AS SUBSTITUTES FOR CHROMIUM-NICKEL STEELS 67-06 M17-71121
HIGH-TENSILE STEELS CONTAINING VANADIUM FOR ENGINEERING STRUCTURES 67-06 M17-71123
INFLUENCE OF CARBON ON THE MECHANICAL PROPERTIES OF AUSTENITIC STEEL AT LOW TEMPERATURES 67-08 M17-74967
BRITTLENESS OF CR-MO-V STEEL RESULTING FROM TEMPERING 67-08 M17-76013
CONTRIBUTION TO THE INVESTIGATION OF A CORRELATION BETWEEN NOTCH SENSITIVITY AND SENSITIVITY TO STRESS CORROSION IN THE PRESENCE OF HYDROGEN IN THE CASE OF CERTAIN STEELS 67-08 M18-76221
TEMPERATURE DEPENDENCE OF INTERGRANULAR ADSORPTION OF CARBON AND PHOSPHORUS IN IRON AND STEEL 67-09 M14-77366
INVESTIGATION OF THE NATURE OF REVERSE TEMPER BRITTLENESS OF STEELS BY THE INTERNAL FRICTION METHOD 67-09 M17-77401
THE MECHANICAL AND CORROSION PROPERTIES OF OKH21N6B TWO-PHASE STAINLESS STEEL 67-09 M18-76973
EFFECTS OF CARBIDE-FORMING ELEMENTS ON THE KINETICS OF THE ISOTHERMAL TRANSFORMATION OF AUSTENITE AND THE MECHANICAL PROPERTIES OF MANGANESE-MOLYBDENUM STEEL 67-10 M14-78936
TEMPER BRITTLENESS 67-10 M17-78608
HIGH-STRENGTH STEELS WITH A LOW NICKEL CONCENTRATION FOR LARGE FORGED PIECES 67-10 M17-78825
MICROFRACTOGRAPHIC FEATURES OF THE DIFFERENT BRITTLE FRACTURES ASSOCIATED WITH THE TEMPERING OF STEELS 67-10 M17-80015
THE APPLICATION OF AN INTERLAYER BEFORE G13 STEEL IS DEPOSITED 67-11 M11-81580
METALLURGICAL ASPECTS OF FERRITIC BOLT STEELS 67-11 M17-80280
TEMPER BRITTLENESS OF CAST STEEL

TEMPER BRITTLENESS

67-11 M17-80963
THE HEAT TREATMENT OF STEELS 67-12 M10-82926
STUDY OF THE KINETICS OF FATIGUE CRACK DEVELOPMENT IN STEELS SUBJECT TO TEMPERING BRITTLENESS
67-12 M17-81998

TEMPER BRITTLENESS, ALLOYING EFFECTS
EFFECT OF THE ADDITION OF RARE EARTH ELEMENTS ON THE COLD BRITTLENESS AND TEMPER BRITTLENESS SUSCEPTIBILITY OF ACID CONVERTER RAIL STEEL
67-08 M17-74589
CHARACTERISTICS OF REVERSE TEMPER BRITTLENESS IN CAST STEEL 67-09 M17-77369

TEMPER BRITTLENESS, DIFFUSION EFFECTS
KINETICS OF DEVELOPMENT OF REVERSE TEMPER BRITTLENESS IN SHEET STEEL 67-02 M17-60139

TEMPER BRITTLENESS, HEATING EFFECTS
STUDY OF 9 PER CENT NICKEL LOW-CARBON STEELS WITH SPECIAL REFERENCE TO THE RELATION BETWEEN THE PRECIPITATION AUSTENITE AND THE TOUGHNESS OF 0.1 PER CENT C 9 PER CENT NICKEL STEEL
67-02 M17-59115
STRUCTURE AND PROPERTIES OF STRUCTURAL STEEL MADE BY VARIOUS METHODS 67-02 M17-61951
STRUCTURE AND PROPERTIES OF CONSTRUCTIONAL STEEL MELTED BY VARIOUS METHODS 67-04 M17-67782
ON THE EMBRITTLEMENT OF CHROMIUM COPPER DURING TEMPERING 67-06 M17-70783

TEMPER BRITTLENESS, IMPURITY EFFECTS
INFLUENCE OF ARSENIC ON TEMPER BRITTLENESS OF LOW-CARBON MANGANESE STEEL 67-06 M17-70075
EFFECT OF ARSENIC ON THE SUSCEPTIBILITY OF LOW-CARBON MANGANESE STEEL TO REVERSIBLE TEMPER BRITTLENESS 67-10 M17-78821

TEMPER HARDENING
SEE SECONDARY HARDENING

TEMPERATURE
SEE CRITICAL TEMPERATURE
CURIE TEMPERATURE
HIGH TEMPERATURE
MELTING POINTS

TEMPERATURE CONTROL
AN EXPERIMENT IN PROLONGED MEASUREMENT OF METAL TEMPERATURE IN A 15-TON BESEMER CONVERTER
67-02 M04-60059
AUTOMATIC TEMPERATURE REGULATION IN HOLDING FURNACES FOR DIE CASTING OPERATIONS
67-02 M06-60505
NEW ELECTRICAL FURNACES FOR REHEATING SLAB
67-02 M07-59818
TEMPERATURE CONTROL OF THE WELD BED DURING PLASMA JET WELDING 67-02 M11-60128
THE MEASUREMENT OF TEMPERATURES AND ITS PRACTICE IN HEAT TREATMENT 67-02 M19-59806
TEMPERATURE IN THE ACID OPEN HEARTH PROCESS
67-03 M04-65509
DETERMINING ERROR IN MEASURING TEMPERATURE OF METAL IN A BOTTOM-BLOWN CONVERTER
67-03 M04-65959
PRECISION CONTROL IN TEMPERING OF STEEL ROLLS AT MIDVALE-HEPPENSTALL CO 67-03 M10-65471
CONTROLLING THE TEMPERATURE OF THE MOLTEN STEEL DURING TEEMING 67-04 M04-67870
FOR ALUMINUM OR MAGNESIUM...NEW PROCESS FEATURES CLOSE CONTROL OF BRAZING HEAT
67-04 M11-66242
REGULATING THE TEMPERATURE OF THE WELD POOL DURING PLASMA JET METAL DEPOSITION 67-04 M11-67668
MEASURING THE TEMPERATURE OF METAL AND GAS IN A CONVERTER BY PHOTOELECTRIC PYROMETER
67-05 M04-69680
TEMPERATURE CONTROL OF HEAT TREATMENT FURNACES
67-05 M10-69483
INLANDS NO. 5 BLAST FURNACE IS SUPERVISED BY COMPUTER 67-05 M19-69491
CONTINUOUS TEMPERATURE MEASUREMENTS OF MOLTEN OPENHEARTH STEEL 67-06 M04-70180
INFRARED TEMPERATURE CONTROL GIVES BETTER WELDS
67-06 M11-70004
RAISING THE TEMPERATURE OF THE BLAST BY CONVERTING THE AIR HEATERS TO PAIRED-PARALLEL OPERATION
67-07 M04-73773
MEASURING METAL AND GAS TEMPERATURES IN CONVERTERS WITH A PHOTO-ELECTRIC PYROMETER
67-07 M04-74066
CRITERION OF THERMAL STATE OF THE HEARTH IN CONNECTION WITH THE CONTROL OF THE THERMAL STATE OF A BLAST FURNACE 67-07 M04-74131
TEMPERATURE DISTRIBUTION IN THE HEARTH OF A BLAST FURNACE WITH AIR-COOLED BOTTOM
67-08 M04-75110
AUTOMATIC REGULATION AND CONTROL OF BLAST FURNACE HEAT 67-08 M04-75792
CONTINUOUS CONTROL OF METAL TEMPERATURE DURING THE FINISHING PERIOD IN A HIGH-CAPACITY OPENHEARTH FURNACE 67-08 M04-76269
TEMPERATURE FIELD OF THE FLAT WALL OF A CONTINUOUS CASTING MOLD 67-08 M06-74346
AUTOMATIC TEMPERATURE CONTROL OF INDUSTRIAL FURNACES WITH FUEL RETURN 67-08 M10-75656
CONTROLLING DIE TEMPERATURES IN PRESSURE DIECASTING
67-08 M19-74553
SUBSTRATE-TEMPERATURE MEASUREMENT AND CONTROL
67-08 M19-74563
TEMPERATURE CYCLES OF INGOT MOLDS DURING USE. PT. 2. DETERMINATION OF TEMPERATURE CYCLES OF AN INGOT MOLD IN A CASTING PIT 67-08 M19-74737
FURNACE CONTROL INSTRUMENTATION IN THE WIRE INDUSTRY 67-08 M19-76075
ELEVATION OF BLAST TEMPERATURE BY CONVERTING HOT-BLAST STOVES TO STAGGERED-PARALLEL OPERATION
67-09 M04-76536
AUTOMATED THERMAL CONDITIONS FOR AN OPENHEARTH FURNACE 67-09 M04-76859
CONTINUOUS CONTROL OF TEMPERATURE CONDITIONS IN CASTING KILLED ELECTRIC STEEL
67-09 M04-77863
SYSTEMS FOR THERMAL BALANCING OF MOLDS IN DIE CASTING SHOPS. DESIGN AND REGULATION
67-09 M06-77669
AUTOMATIC TEMPERATURE CONTROL DURING INDUCTION WELDING OF PIPES 67-09 M11-76856
OPTICAL ROOF TEMPERATURE MEASUREMENTS IN OPENHEARTH FURNACES--ERRORS AND THEIR ELIMINATION
67-09 M19-76507
HIGH-QUALITY WELDS USING INFRA-RED TEMPERATURE CONTROL 67-09 M19-78107
CONTROLLING METAL TEMPERATURE CONTINUOUSLY DURING REFINING IN A LARGE OPEN-HEARTH FURNACE
67-10 M04-79262
EFFECT OF ELECTROMAGNETIC FIELDS ON THERMOCOUPLE READINGS IN CONTINUOUS CONTROL OF METAL TEMPERATURE IN AN ELECTRIC FURNACE
67-10 M19-78428
ASPECTS OF GAS TEMPERATURE DETERMINATION IN THE UPPER REACHES OF THE BLAST FURNACE
67-11 M04-81459
HOW LOCAL ADDITIONS OF FUEL OIL AND WATER VAPOR AFFECT COKE COMBUSTION IN THE BLAST FURNACE TUYERE BELT 67-11 M04-81460
TEMPERATURE FLUCTUATIONS DURING THE WELDING OF PIPES USING ROTATING TRANSFORMERS
67-11 M11-80509
MORE EFFICIENT BLAST FURNACE OPERATIONS
67-12 M04-81787
ROLLING TEMPERATURES IN A CONTINUOUS HIGH-SPEED LIGHT-SECTION MILL 67-12 M07-81711
TEMPERATURE CONTROL IN SILICONIZING ANNEALING FURNACES WITH SILICON CARBIDE HEATERS
67-12 M10-81739
EFFECTS OF ELECTROMAGNETIC FIELDS ON THERMOCOUPLE READINGS WHEN METAL TEMPERATURE IN ELECTRIC FURNACES IS CONTINUOUSLY RECORDED
67-12 M19-83426

TEMPERATURE CONTROL, CASTING
MEASURING THE SURFACE TEMPERATURE OF A METAL MOLD
67-12 M19-82616

TEMPERATURE CONTROL, COMPOSITION EFFECTS
SILICON CONTENT OF PIG IRON AS A CRITERION OF THERMAL STATE OF A BLAST FURNACE
67-07 M04-74132

TEMPERATURE INSTRUMENTS
SEE TEMPERATURE MEASURING INSTRUMENTS

TEMPERATURE MEASUREMENT
SEE TEMPERATURE MEASURING INSTRUMENTS

TEMPERATURE MEASURING INSTRUMENTS
SEE ALSO OPTICAL PYROMETERS
RADIATION PYROMETERS
RESISTANCE THERMOMETERS
THERMOCOUPLE PYROMETERS
THERMOCOUPLES
THERMOMETERS /FILLED/
STUDY OF HOT BLAST STOVES OF A 2000 M3 CAPACITY BLAST FURNACE 67-02 M04-61953
ACCURACY OF MEASURING THE TEMPERATURE OF G13L STEEL BY OPTICAL PYROMETER 67-02 M06-59181
WIRE TEMPERATURE AND ITS MEASUREMENT IN DRAWING
67-02 M08-59561
MEASUREMENT OF ALUMINIUM EXTRUSION TEMPERATURES--

COLLABORATIVE WORKS TRIALS OF A COMMERCIAL LEAD SULPHIDE-CELL INSTRUMENT 67-02 M08-61292
A PYROMETER FOR THE CONTINUOUS MEASUREMENT OF THE TEMPERATURE OF ALUMINIUM EXTRUSIONS 67-02 M08-61293
SOME COMMENTS ON HIGH-TEMPERATURE PROPERTY DETERMINATION 67-02 M15-60708
THE DETERMINATION OF TEMPERATURE DISTRIBUTION DURING FLAME CUTTING 67-02 M19-60510
AN INVESTIGATION INTO THE PROBLEM OF MEASURING THE TEMPERATURE DISTRIBUTION ON THE RAKE FACE OF A CUTTING TOOL 67-03 M08-65991
OPERATING EXPERIENCE WITH CONTINUOUS TEMPERATURE MEASUREMENTS IN CAST IRON AND STEEL MELTS 67-04 M19-66630
USING A DIGITAL COMPUTER FOR CONTROLLING THE MELT IN AN OXYGEN CONVERTER 67-05 M04-69679
MEASURING THE TEMPERATURE OF METAL AND GAS IN A CONVERTER BY PHOTOELECTRIC PYROMETER 67-05 M04-69680
HOT STRIP MILL WORK ROLL TEMPERATURE DURING ROLLING 67-05 M07-69710
THE SELECTION AND USE OF PYROMETER SHEATHS 67-05 M20-68721
TEMPERATURE DISTRIBUTION IN THE WORKING ROLL IN COLD ROLLING 67-06 M19-71486
MEASUREMENT OF DEFORMATION CONDITIONS DURING EXTRUSION 67-07 M03-74157
MEASURING METAL AND GAS TEMPERATURES IN CONVERTERS WITH A PHOTO-ELECTRIC PYROMETER 67-07 M04-74066
HIGH-TEMPERATURE THERMOCOUPLE ELEMENTS OF GE-SI MIXED CRYSTALS FOR THERMAL GENERATORS 67-07 M20-74023
TEMPERATURE DISTRIBUTION IN THE HEARTH OF A BLAST FURNACE WITH AIR-COOLED BOTTOM 67-08 M04-75110
TEMPERATURE DISTRIBUTION IN THE MOLTEN POOL IN PULSED ARC WELDING OF AMG6 ALLOYS WITH CONSUMABLE ELECTRODE 67-08 M11-75418
A PIRANI FURNACE FOR THE PRECISION DETERMINATION OF THE MELTING TEMPERATURES OF REFRACTORY METALLIC SUBSTANCES 67-08 M15-74935
CONTROLLING DIE TEMPERATURES IN PRESSURE DIECASTING 67-08 M19-74553
TEMPERATURE CYCLES OF INGOT MOLDS DURING USE. PT. 2. DETERMINATION OF TEMPERATURE CYCLES OF AN INGOT MOLD IN A CASTING PIT 67-08 M19-74737
THE PROPERTIES OF ELECTRODE GRAPHITE AND THEIR EFFECT ON THE USE OF ELECTRODES IN THE ELECTRIC ARC FURNACE. PT. 2. TEMPERATURE DISTRIBUTION IN ELECTRODES USED IN ELECTRIC ARC FURNACES 67-08 M19-75112
DIGITAL TEMPERATURE MEASUREMENTS WITH IMMERSION THERMOCOUPLES 67-08 M19-75114
MEASURING, INDICATING AND RECORDING IN HEAVY AND MEDIUM PLATE ROLLING MILLS 67-08 M19-76288
MEASUREMENT OF TEMPERATURES DURING ELECTRIC CONTACT SINTERING OF METAL POWDERS 67-09 M09-76991
FUSIBLE ALLOYS 67-09 M19-76364
TEMPERATURE FIELD OF THE LARGE BELL CUP OF THE BLAST FURNACE 67-10 M04-78419
A GAGE FOR MEASURING OPENHEARTH FURNACE ROOF TEMPERATURE 67-10 M19-78425
ACCURACY OF OPTICAL PYROMETER TEMPERATURE READINGS ON MN STEEL G13L 67-10 M19-78890
APPARATUS FOR CHECKING THE QUALITY OF EXOTHERMIC ANTIPIPING COMPOUNDS FOR THE HOT TOPS OF KILLED-STEEL INGOTS 67-10 M19-79677
AUTOMATIC AVERAGING AND RECORDING OF LOW-FREQUENCY ALTERNATING PARAMETERS IN A BLAST FURNACE HEAT 67-11 M04-81019
TEMPERATURE MEASUREMENT IN FOUNDRY 67-11 M06-80529
THE DETERMINATION OF THE ELEVATED-TEMPERATURE PROPERTIES OF STEEL 67-11 M17-80257
PRECISION VACUUM-DROP CALORIMETER FOR MEASURING THERMODYNAMIC PROPERTIES OF MATERIALS UP TO 1500 C 67-11 M19-80542
THE QUICK IMMERSION PYROMETRY OF POURING TEMPERATURE 67-11 M19-81182
PHOTOELECTRONIC PYROMETRY OF METALS IN THE VISIBLE NEAR ULTRAVIOLET AND INFRARED RANGES OF THE SPECTRUM 67-11 M19-81210
TEMPERATURE DISTRIBUTION IN B-G-BELL HOPPER OF A BLAST FURNACE 67-12 M04-83417
RELATIONSHIP BETWEEN THE DIFFUSION OF C AND THE DISTRIBUTION OF TEMPERATURE WITHIN A CHARGE 67-12 M10-82841
CALCULATING TEMPERATURE DISTRIBUTION IN THE CONTACT WHEN PRESSURE MICROWELDING WITH INDIRECT HEAT 67-12 M11-81911
TEMPERATURE DISTRIBUTION IN THE MOLTEN METAL POOL DURING THE VIBROARC WELDING OF AMG6 ALLOY WITH A CONSUMABLE ELECTRODE 67-12 M11-82039
CONTINUOUS TEMPERATURE MEASUREMENT OF AN IRON STREAM 67-12 M19-82085
TEMPERATURE OF THE REACTION ZONE DURING OXYGEN-BLOWING OF PIG IRON 67-12 M19-82107
PRACTICAL ASPECTS OF TEMPERATURE CONTROL IN HEAT TREATMENT OPERATIONS. PT. 6 67-12 M19-82355
TEMPERATURE DISTRIBUTION DURING PRESSURE WELDING WITH INDIRECT PULSE HEATING 67-12 M19-82628
APPARATUS FOR TESTING THE THERMAL CONDUCTIVITY OF METALS 67-12 M19-83209
EQUIPMENT FOR MEASURING TEMPERATURE AT ROOFS OF OPEN-HEARTH FURNACES 67-12 M19-83423

TEMPERATURE MEASURING INSTRUMENTS, DISTRIBUTION
TEMPERATURE DISTRIBUTION ACROSS THE INGOT WHEN COOLING IN MOLD AND IN THERMOS CAR 67-01 M06-57243

TEMPERATURE MEASURING INSTRUMENTS, MACHINING
THE TEMPERATURE DISTRIBUTION IN THE TOOL-CHIP CONTACT ZONE WHEN TURNING STEELS WITH CARBIDE TOOLS 67-03 M08-65989

TEMPERATURE MEASURING INSTRUMENTS, ULTRASONICS
ULTRASONIC PYROMETER 67-02 M19-58885

TEMPERING
SEE ALSO BRIGHT TEMPERING
SECONDARY HARDENING
TEMPER ANNEALING
HEAT TREATMENT OF LARGE PLATES OF WAKAYAMA STEEL WORKS 67-01 M10-58251
LARGE STEEL CASTINGS HEAT TREATED IN SELF-GENERATING ATMOSPHERE FURNACE 67-01 M10-58448
BETHLEHEM INSTALLS NEW PLATE QUENCH AND TEMPER FACILITY 67-01 M10-58495
MICROSTRUCTURAL TRANSFORMATIONS DURING TEMPERING OF COMPLEX ALLOY STEELS WITH 12 PER CENT CR ARE STUDIED BY AN ELECTRON MICROSCOPE 67-01 M14-58173
EFFECT OF TEMPERING ON THE PROPERTIES OF A MAGNETICALLY-HARD ALLOY OF THE SYSTEM FE-NI-CR 67-01 M15-57343
INFLUENCE OF AUSFORMING ON HARDNESS OF 18-4-1 HIGH SPEED STEEL 67-01 M17-57499
TEMPER EMBRITTLEMENT OF DUCTILE IRON 67-01 M17-58478
ON THE CONCENTRATING PROCESS OF THE ALLOYING ELEMENT INTO CEMENTITE DURING THE TEMPERING OF STEEL 67-02 M10-59123
HEAT TREATING CRANKSHAFTS 67-02 M10-59456
EFFECT OF THE HOLDING TIME DURING TEMPERING OF 18-8 STAINLESS STEEL ON THE DEVELOPMENT OF THE CHROMIUM-DEPLETED ZONE 67-02 M10-59577
THE TEMPERING CONDITIONS OF 1.0 PER CENT NICKEL-DOPED STEEL 67-02 M10-59649
TEMPERATURE DISTRIBUTION DURING TEMPERING INDUCTION HEATING OF STAND PIPES 67-02 M10-59685
DISTORTION OF PARTS DURING HEAT TREATMENT 67-02 M10-59805
ISOSCLERIC TEMPERING OF STEEL 67-02 M10-60857
HOW STEEL GETS QUENCHED AND TEMPERED 67-02 M10-61815
INFLUENCE OF HEATING RATE DURING TEMPERING OF QUENCHED STEEL AND INFLUENCE OF END-OF-QUENCH TEMPERATURE 67-02 M14-59418
THE NATURE OF TRANSFORMATIONS DURING HIGH-TEMPERATURE TEMPERING OF ANNEALED HIGH-SPEED STEEL 67-02 M14-59677
TRANSFORMATIONS DURING TEMPERING OF STEEL 67-02 M14-60286
THE PROPERTIES OF LOW-CARBON MARTENSITE. INTRODUCTION 67-02 M17-61695
PROPERTIES OF LOW-CARBON MARTENSITE. DISCUSSION OF RESULTS 67-02 M17-61698
THE INHERENCE OF THE PROPERTIES OF THERMOMECHANICALLY TREATED STEEL 67-02 M17-61931
SUPERHEATING OF STRUCTURAL STEELS 67-02 M17-61986
PRECISION CONTROL IN TEMPERING OF STEEL ROLLS AT MIDVALE-HEPPENSTALL CO 67-03 M10-65471
THE STRENGTH OF FERROUS MARTENSITES 67-03 M17-65330

DEVELOPMENT OF HIGH-STRENGTH, CORROSION RESISTANT 13 PER CENT CR STEELS PARTICULARLY FOR TURBINE WHEELS 67-04 M10-67207
MECHANISM OF THE EFFECT OF TEMPERING ON THE CRYSTAL LATTICE PARAMETER OF DISPERSION-HARDENED INVARS 67-04 M13-67652
ON THE CRYSTAL STRUCTURE OF QUENCHED STEEL 67-04 M14-67383
THE TEMPERING BEHAVIOR OF THE 34CR4 ALLOY --BSO-- AND 41CR4 --BSO SPECIAL-- STEELS 67-04 M17-67710
HIGH TEMPERATURE THERMAL-MECHANICAL TREATMENT OF DRILL TUBES MADE FROM 38KHNM ALLOY STEEL 67-04 M17-68195
OPTIMUM CONDITIONS FOR TEMPERING BR. NBT ELECTRODE ALLOY 67-05 M10-68974
PROBLEMS OF STRESS-RELIEF TEMPERING OF GRAY IRON MACHINE TOOL BEDS 67-05 M10-69348
STEEL PLATE QUENCHING AND TEMPERING PLANT IN INDIANA 67-06 M10-70025
STRIP-FLOATING SYSTEM FOR CONTINUOUS FURNACES 67-06 M10-70250
INVESTIGATION OF THE TEMPERATURE RANGES OF TEMPERING EFFECTS DURING RAPID HEATING 67-06 M10-70364
INDUCTION TEMPERING OF 60S2 STEEL 67-06 M10-70373
QUENCHING STEEL PLATE ON THE FLY 67-06 M10-70728
NEW HEAT TREATMENT DEPARTMENT AND WAREHOUSE FOR KAYSER ELLISON & CO. LTD 67-06 M10-71298
HEAT TREATMENT OF WROUGHT COPPER ALLOYS 67-06 M10-71908
QUENCHED AND TEMPERED STEEL PLATES AND PROCESSING EQUIPMENT 67-06 M10-71945
ON THE TEMPERING BEHAVIOR OF 3CR-W, 3CR-W-CO AND 12CR-W-CO-TYPE TOOL STEELS FOR HOT WORK 67-06 M17-70584
RESIDUAL STRESSES AND FATIGUE LIFE OF CASE-CARBURIZED GEARS 67-06 M17-70878
INCREASED RELIABILITY OF A HIGH-STRENGTH STEEL THROUGH THERMAL-MECHANICAL TREATMENTS 67-06 M17-71081
QUENCHED AND TEMPERED NICKEL ALLOY STEELS 67-07 M01-74246
HEAT TREATMENT OF RAILWAY ROLLING STOCK COMPONENTS 67-07 M10-72905
A NEW APPROACH TO BATCH ANNEALING 67-07 M10-72928
INTENSIFYING THE HEAT TREATMENT OF LOW-ALLOY LOW-CARBON SHEET STEEL 67-07 M10-73791
METALLURGICAL ASPECTS OF HEAT TREATMENT OF LARGE STEEL FORGINGS 67-07 M10-74170
QUENCH AND TEMPER INSTALLATION AT BETHLEHEMS BURNS HARBOR PLANT 67-07 M10-74222
TRANSFORMATIONS IN NITROGEN-CONTAINING CR-MN-NI STEEL DURING TEMPERING 67-07 M14-74191
CONTROLLING HARDNESS OF TEMPERED STEEL 67-08 M10-74457
HEAT TREATMENTS OF TITANIUM AND ITS ALLOYS 67-08 M10-74749
CONTROLLING DEFORMATION DURING TEMPERING 67-08 M10-75325
ISOSCLEROUS TEMPERING OF STEEL 67-08 M10-76115
INVESTIGATION OF STEELS SUSCEPTIBLE TO SECONDARY HARDENING AND HARDENING BY THERMOMECHANICAL TREATMENT 67-08 M17-76027
INCREASE OF SURFACE HARDNESS OF QUENCHED ALLOYED STEEL BY COLD WORKING AND TEMPERING AT 200 C 67-08 M17-76130
THE NATURE OF HARDENING DURING LOW-TEMPERATURE TEMPERING OF COLD DEFORMED CARBON STEELS 67-09 M10-76440
INTENSIFYING HEAT-TREATMENT CONDITIONS FOR LOW-ALLOY MILD STEELPLATE 67-09 M10-76554
EQUIPMENT FOR A HEAT TREATMENT, QUENCHING AND TEMPERING SHOP 67-09 M10-76686
ELECTRIC TEMPER OF SPRING STEEL 67-09 M10-77372
DETERMINATION OF THE OPTIMUM TEMPERING TREATMENT FOR A PERMANENT MAGNETIC ALLOY OF THE ALNICO 160 TYPE 67-09 M15-76703
THE EFFECTS OF QUENCHING VT5-1 ALLOY FROM THE ALPHA-REGION, FOLLOWED BY TEMPERING, ON ITS MECHANICAL PROPERTIES 67-09 M17-77061
EFFECT OF BAINITE ADDITIONS ON THE TEMPERING OF STEEL 67-10 M10-78609
DEVELOPMENT OF HEAT TREATMENT PROCESSES IN MACHINERY CONSTRUCTION 67-10 M10-79214
HEAT TREATMENT IN THE TOOL INDUSTRY 67-10 M10-79215
THE AGING MECHANISM IN AL-CU-MG ALLOY 67-10 M10-79220
EFFECT OF RAPID HEAT TREATING ON MECHANICAL PROPERTIES OF LOW-CARBON STEEL SHEET 67-10 M10-79770
A DILATOMETRIC STUDY OF STRUCTURAL EVOLUTION OF MARAGING STEEL CONTAINING 18 PER CENT NI DURING TEMPERING 67-10 M14-79894
OVERHEATING OF STRUCTURAL STEELS 67-10 M17-78843
EFFECTS OF THE HARDNESS OF 45 STEEL, RESULTING FROM QUENCHING IT, ON ITS ENDURANCE AFTER HIGH-TEMPERATURE TEMPERING 67-10 M17-78933
FLOW STRENGTH AND FRACTURE TOUGHNESS OF 9 NI 4 CO STEEL AS AFFECTED BY STRAIN TEMPERING AND AUSFORMING 67-10 M17-79687
EFFECT OF STRESS RELIEVING ON THE HIGH-TEMPERATURE RUPTURE STRENGTH OF CARBON STEELS 67-11 M17-80266
QUENCHED AND TEMPERED CARBON-MANGANESE STEELS FOR USE AT ELEVATED TEMPERATURES 67-11 M17-80271
ANNEALING CHARACTERISTICS OF NICKEL ALLOY STEELS 67-12 M10-81810
EFFECT OF HEAT TREATMENT ON THE AMOUNT AND DISTRIBUTION OF HYDROGEN IN LARGE FORGINGS 67-12 M10-81876
THE NATURE OF PROCESSES DURING TEMPERING OF COLD DEFORMED MEDIUM CARBON STEEL 67-12 M10-83441

TEMPERING, ALLOYING EFFECTS
EFFECT OF COBALT ON THE TEMPERING CHARACTERISTICS OF MEDIUM-CARBON STEELS 67-07 M10-73877

TEMPERING, AUTOMATION
HEAT TREATMENT OF STRUCTURAL STEELS BY HARDENING AND TEMPERING 67-08 M10-74750
FINISHING AND HEAT TREATMENT OF HEAVY PLATES 67-08 M10-74752

TEMPERING, CONTROLLED ATMOSPHERES
PRODUCTION-LINE HEAT TREATMENT OF LIGHT ENGINEERING COMPONENTS--PRESENT TRENDS 67-08 M10-74753

TEMPERING FURNACES
FURNACE VERSATILITY IS KEY TO SUCCESS FOR NEW COMMERCIAL HEAT TREATER 67-05 M10-69200

TENACITY
SEE TENSILE STRENGTH

TENSILE IMPACT STRENGTH
MECHANICAL PROPERTIES OF SEAMS MADE BY VARIOUS METHODS OF MULTILAYER WELDING 67-04 M11-66438
THE MECHANICAL PROPERTIES OF MULTI-PASS WELDS 67-07 M11-72697

TENSILE MODULUS
SEE MODULUS OF ELASTICITY

TENSILE PROPERTIES
SEE ALSO TENSILE IMPACT STRENGTH
TENSILE STRENGTH
WELDABILITY OF HIGH-STRENGTH ALUMINUM ALLOYS 67-01 M17-57223
MECHANICAL PROPERTIES, TEXTURE AND FIBROUS APPEARANCE OF 17 PER CENT CR STAINLESS STEELS AS A FUNCTION OF THEIR PROCESSING CONDITIONS 67-01 M17-57606
CRYOGENIC TENSILE PROPERTIES OF SELECTED AEROSPACE MATERIALS 67-01 M17-57621
THE EFFECT OF CARBON ON THE PROPERTIES OF 25CR-20NI HEAT RESISTING STEEL 67-01 M17-58241
PRODUCTION AND MECHANICAL PROPERTIES OF PURE COBALT AND COBALT ALLOYS 67-01 M17-58440
STUDY OF THE PROPERTIES OF PURE IRON-ALUMINIUM ALLOYS CONTAINING UP TO 2 PER CENT AL 67-01 M17-58445
REVERSIBLE SHAKING LADLE --D-M CONVERTER-- 67-02 M04-60619
HIGH-TEMPERATURE THERMOMECHANICAL WORKING OF TITANIUM VT15 ALLOY 67-02 M10-58900
MECHANICAL PROPERTIES AND STRUCTURE OF METAL-CERAMIC SHEET MOLYBDENUM FOR DEEP DRAWING 67-02 M17-59406
INVESTIGATION OF THE STRENGTH OF TITANIUM ALLOYS BY THE BENDING METHOD AT 600 C 67-02 M17-59783
EFFECT OF HEAT TREATMENT ON THE MECHANICAL PROPERTIES OF TYPE AT2 ALLOYS 67-02 M17-59833
SOME MECHANICAL AND PHYSICAL PROPERTIES OF AT13 ALLOYS 67-02 M17-59836
EFFECT OF HEAT TREATMENT ON THE PROPERTIES, STRUCTURE AND PHASE COMPOSITION OF VT3-1 ALLOY 67-02 M17-59841

EFFECT OF CARBURIZATION ON THE SHORT-TIME STRENGTH OF TUNGSTEN, MOLYBDENUM AND TANTALUM AT HIGH TEMPERATURES 67-02 M17-59872
INVESTIGATION OF THE DUCTILITY OF SOME AUSTENITIC STEELS AT HIGH LOAD RATES 67-02 M17-59943
MECHANICAL PROPERTIES OF L62 BRASS AFTER HIGH-SPEED RECRYSTALLIZATION ANNEALING 67-02 M17-59947
EFFECT OF THE QUENCHING TEMPERATURE ON THE PROCESS OF PORE FORMATION DURING THERMAL CYCLING OF ALUMINUM 67-02 M17-59948
SOME NOTES ON THE MANUAL ARC WELDING OF LOW-TEMPERATURE HIGH-STRENGTH STEELS 67-02 M17-60106
MECHANICAL PROPERTIES OF MA2-1 ALLOY CONTAINING VARIOUS AMOUNTS OF HYDROGEN 67-02 M17-61288
EFFECT OF TEMPERATURE CONDITIONS ON THE PROPERTIES AND GAS CONTENT OF A VACUUM-MELTED CHROMIUM-NICKEL ALLOY 67-02 M17-61905
THE ROLE OF NON-METALLIC INCLUSIONS IN THE FAILURE OF CAST STEEL 67-02 M17-61912
EFFECT OF HIGH DEGREES OF DEFORMATION ON THE MECHANICAL PROPERTIES AND ELECTRICAL RESISTANCE OF NI AND NI-ALLOY WIRE 67-02 M17-62058
EFFECT OF LOW-TEMPERATURE TREATMENT ON STRUCTURE AND PROPERTIES OF TITANIUM ALLOYS 67-02 M17-62060
MECHANICAL AND CORROSION PROPERTIES OF SHEETS OF VD3 ALLOY 67-02 M18-61287
THE EFFECT OF TEST BAR VARIABLES ON THE TENSILE PROPERTIES OF MAGNESIUM CASTING ALLOYS 67-03 M17-65318
AN EVALUATION OF MECHANICAL PROPERTIES OF CAST MARAGING STEELS 67-04 M17-67329
STUDY ON THE STRENGTH AND PLASTICITY OF SINTERED IRON DURING TENSION AT LOW TEMPERATURES 67-04 M17-67345
ALUMINUM-KILLED STEEL PLATES --NORMALIZED-- FOR LOW-TEMPERATURE SERVICES 67-04 M17-67516
INFLUENCE OF THE STRUCTURE ON THE DUCTILITY AND TYPE OF RUPTURE OF KHN70VMTYU AND EI826 ALLOYS 67-05 M17-68354
EFFECT OF HYDROGEN ON THE STRUCTURE AND PROPERTIES OF VT3-1 ALLOY AFTER VARIOUS HEAT TREATMENTS 67-05 M17-68977
HIGH-STRENGTH TITANIUM-BASE ALLOY 67-05 M17-69237
A NICKEL-BASE HEAT RESISTANT FORMING ALLOY 67-05 M17-69241
EFFECT OF THE NUMBER OF ROLLING PASSES ON THE STRENGTH, DUCTILITY, MICROSTRUCTURE AND FINE CRYSTALLINE STRUCTURE OF SILICON STEELS AS A RESULT OF HIGH-TEMPERATURE AUSROLLING 67-05 M17-69270
CROSS TRAVEL OF ARC AS A FACTOR IN IMPROVING THE STRUCTURE AND PROPERTIES OF WELDED JOINTS 67-05 M17-69406
PRESS WELDING UNIFORMLY HEATED LARGE SIZE STEEL BILLETS 67-05 M17-69409
ELECTROSLAG WELDING OF HEAVY-GAGE KH17N13M3T STEEL 67-05 M17-69416
EFFECT OF CYCLICAL THERMOMAGNETIC TREATMENT IN THE CURIE POINT REGION ON THE PLASTIC PROPERTIES OF IRON AND STEEL 67-05 M17-69660
EFFECT OF AUSFORMING ON THE PROPERTIES OF MACHINE STEEL 67-05 M17-69666
EFFECT OF AGING ON THE PROPERTIES OF MARTENSITE OBTAINED FROM STRAINED AUSTENITE 67-05 M17-69671
CRYOGENICS--APPLICATION OF AL ALLOYS, THEIR MECHANICAL PROPERTIES AND METHODS OF TESTING THEM 67-05 M17-69700
THE INFLUENCE OF THERMOMECHANICAL TREATMENTS ON THE MICROSTRUCTURE AND TENSILE PROPERTIES OF HASTELLOY X-280 67-06 M17-69934
CHANGE IN THE MECHANICAL PROPERTIES OF GAMMA BRASS AT HIGH TEMPERATURES 67-06 M17-70174
ESTABLISHING THE RELATIONSHIP BETWEEN THE TRUE STRAIN AND THE NECKING OF TENSILE TEST SPECIMENS 67-06 M17-70262
A TENSILE FAILURE MECHANISM FOR WHISKER REINFORCED COMPOSITES 67-06 M17-70615
THE EFFECT OF STRAINING AT 100-500 C. ON THE ROOM TEMPERATURE MECHANICAL PROPERTIES OF CARBON STEELS 67-06 M17-70838
IMPROVING THE STRENGTH OF CONTAINERS MADE OF THE VT15 TITANIUM ALLOY BY LOW-TEMPERATURE HEAT AND MECHANICAL TREATMENT 67-06 M17-70949
YIELDING AND PLASTIC FLOW IN A POLYCRYSTALLINE INTERSTITIAL-FREE FE-0.15 PER CENT TI ALLOY 67-06 M17-71083
CHANGE IN STRUCTURE AND PROPERTIES OF VT5 TITANIUM ALLOY AS A RESULT OF GAS ABSORPTION 67-06 M17-72122
SOME RESULTS OF THE PRODUCTION AND APPLICATION OF HIGH-STRENGTH STRUCTURAL STEELS 67-07 M01-74272
PROPERTIES OF COMPACT BILLETS ROLLED ON THREE-HIGH STANDS FOR FURTHER TRANSVERSE-HELICAL ROLLING INTO ROUND PERIODIC SECTIONS 67-07 M07-74076
HOT-EXTRUDED CHROMIUM COMPOSITE POWDER 67-07 M09-73868
BERYLLIUM POWDER FORGING 67-07 M09-73870
HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT OF STEEL 55S2 --AISI 9255-- ADDITIONALLY ALLOYED WITH CARBIDE-FORMING ELEMENTS 67-07 M10-73005
EFFECT OF TYPE OF DEFORMATION ON THE MECHANICAL PROPERTIES OF HAMMER FORGINGS 67-07 M17-72491
DUCTILITY OF CERTAIN AUSTENITIC STEELS UNDER HIGH-VELOCITY LOADING 67-07 M17-72598
MECHANICAL PROPERTIES OF ELECTRODEPOSITED IRON FROM SULFATE BATH--CONDITIONS OF ELECTRODEPOSITION 67-07 M17-72602
THE STRAIN IN TRIPLEX NICKEL PLATING PRODUCED BY INSTANTANEOUS INTERNAL STRESS 67-07 M17-72604
THE EVALUATION OF CAST IRON AS A STRUCTURAL MATERIAL 67-07 M17-72756
LOW-TEMPERATURE TENSION TESTS OF COPPER IN AN ULTRASONIC FIELD 67-07 M17-72786
HIGH STRENGTH CAST STEEL 67-07 M17-73251
THE FATIGUE OF CU-NI-FE ALLOYS 67-07 M17-73921
PLASTIC PROPERTIES OF THIN SHEET MOLYBDENUM AT VARIOUS DEFORMATION RATES 67-07 M17-73952
PRELIMINARY INVESTIGATIONS ON A NEW WELDABLE ALLOY --ARGONAL 50-- OF THE AL-ZN-MG SYSTEM 67-08 M01-75379
PRESENT STATUS AND DEVELOPMENT TENDENCIES OF CAST IRON WITH SPHEROIDAL GRAPHITE 67-08 M01-75676
IMPROVING THE TENSILE PROPERTIES OF EP543 ALLOY FORGINGS BY EFFICIENT FORGING AND STAMPING 67-08 M07-75480
PRODUCING HIGH STRENGTH R-65 CHROMIUM STEEL RAILS 67-08 M07-75724
A METALLOGRAPHIC STUDY OF SINTERED STEEL 67-08 M09-75493
WHATS SO TOUGH ABOUT CRYOGENIC COLD 67-08 M17-74441
FIGHT AGAINST WEAR STARTS WITH MATERIAL SELECTION 67-08 M17-74488
THE TENSILE PROPERTIES AND FRACTURE OF URANIUM BETWEEN MINUS 200 C. AND PLUS 900 C 67-08 M17-74514
MECHANICAL PROPERTIES OF G13L STEEL IN WORK-HARDENED STATE 67-08 M17-74587
PROPERTIES OF COMMERCIAL WROUGHT ALLOYS 67-08 M17-74810
SIGNIFICANCE OF MECHANICAL PROPERTIES IN DESIGN AND APPLICATION 67-08 M17-74817
INFLUENCE OF WALL THICKNESS ON PRIMARY STRUCTURE AND MECHANICAL PROPERTIES OF UNALLOYED AND 235 ALLOYED STEEL CASTINGS 67-08 M17-75030
HOT TENSILE PROPERTIES OF 1/2 PER CENT CR-1/2 PER CENT MO-1/4 PER CENT V AND 2 1/4 PER CENT CR-1 MO STEAM PIPE MATERIAL 67-08 M17-75361
MECHANICAL PROPERTIES OF PURE ALUMINUM WIRE. STUDIES ON FABRICATION OF ULTRA FINE WIRE OF ALUMINUM AND ALUMINUM ALLOYS. PT. 1 67-08 M17-75375
RESEARCH INTO THE STRUCTURE AND PROPERTIES OF MOLYBDENUM-NIOBIUM SYSTEM ALLOYS IN THE MONOCRYSTALLINE STATE 67-08 M17-75447
MECHANICAL PROPERTIES OF METALS 67-08 M17-75600
THE EFFECT OF CROSS ROLLING ON THE ANISOTROPIC PROPERTIES OF HOT ROLLED PLATE 67-08 M17-75803
CYCLIC STRAIN-SOFTENING EFFECTS IN METALS 67-08 M17-75970
CAVITATION RESISTANCE OF CHROMIUM-MANGANESE AUSTENITIC STEELS CONTAINING NITROGEN 67-08 M18-76282
UNALLOYED TUNGSTEN.. POWDER-METALLURGY MATERIAL 67-09 M09-77325
PROPERTIES OF AL-MG-FE ALLOY OBTAINED

BY SINTERING OF ATOMIZED POWDERS 67-09 M09-78256
MECHANICAL PROPERTIES OF CHROMIUM DIFFUSION COATINGS 67-09 M12-76435
INFLUENCE OF DEFORMATION AFTER QUENCHING ON THE MECHANICAL PROPERTIES AND CREEP STRENGTH OF ALUMINUM ALLOYS USED IN AERONAUTICS 67-09 M17-76381
INFLUENCE OF BORIDING ON SOME PHYSICAL AND MECHANICAL PROPERTIES OF STEEL 45 67-09 M17-76436
IMPROVING THE PROPERTIES OF HIGH-TEMPERATURE MAGNESIUM ALLOYS BY HEAT AND MECHANICAL TREATMENT 67-09 M17-77046
THE EFFECTS OF QUENCHING VT5-1 ALLOY FROM THE ALPHA-REGION, FOLLOWED BY TEMPERING, ON ITS MECHANICAL PROPERTIES 67-09 M17-77061
STEELS FOR HOUSING SOLID FUEL ROCKET MOTORS 67-09 M17-77191
SUSCEPTIBILITY FOR HYDROGEN EMBRITTLEMENT OF SEVERAL ULTRAHIGH-STRENGTH STEELS 67-09 M17-77260
MOLYBDENUM ALLOYS 67-09 M17-77324
COLUMBIUM ALLOYS 67-09 M17-77327
TANTALUM ALLOYS 67-09 M17-77328
NICKEL ALLOY STEEL CASTINGS 67-09 M17-77791
DETERMINING THE MECHANICAL PROPERTIES OF METALS BY PLURAL CORRELATION 67-09 M17-77868
ELASTIC ANISOTROPIES AND TEMPERATURE CHANGE OF SINGLE CRYSTALS OF HIGH ELASTICITY ALLOY DIA-FLEX IN THE CO-FE-NI-CR-W-MO SYSTEM 67-09 M17-77996
STRENGTH OF THE BENT PROFILES OF LOW-CARBON STEEL 67-09 M17-78122
FORGING METALLURGY--TITANIUM. PT. 1 67-09 M17-78168
CAVITY NUCLEATION DURING CREEP OF MAGNOX AL80 67-09 M17-78267
INVESTIGATION ON THE DAMAGE TO STEELS UNDER THE EFFECT OF MOIST HYDROGEN SULPHIDE 67-09 M18-77383
STAINLESS STEELS 67-10 M01-79217
PROPERTIES AND APPLICATIONS OF MODIFIED 12 PER CENT CR STEELS 67-10 M01-79487
APPLICATIONS AND PROPERTIES OF 15-5 PH 67-10 M01-79752
NEW CONCEPTS IN ECONOMY 67-10 M01-79753
CONTROLLED SOLIDFICATION 67-10 M06-79693
DUCTILITY OF SINTERED METAL-GLASS COMPOSITES 67-10 M09-79350
ONE PIECE ROCKET CASES BY ELECTROFORMING 67-10 M12-78658
ELEVATED NITROGEN CONTENTS IN AUSTENITIC CRNI AND CRMN STEELS 67-10 M17-78339
NOTCH TOUGHNESS OF SOME ALUMINUM ALLOY CASTINGS AT CRYOGENIC TEMPERATURES 67-10 M17-78485
A VERSATILE ALUMINUM ALLOY FOR CRYOGENIC APPLICATIONS 67-10 M17-78486
EFFECT OF AGING ON THE TENSILE PROPERTIES OF ALLOY 7039 GTA WELDS AT LOW TEMPERATURES 67-10 M17-78488
AN AGE-HARDENABLE, LOW-EXPANSION ALLOY FOR CRYOGENIC SERVICE 67-10 M17-78489
MECHANICAL PROPERTIES OF SEVERAL NICKEL-BASE ALLOYS AT ROOM AND CRYOGENIC TEMPERATURES 67-10 M17-78490
WEAVING THE ARC AS A FACTOR IN IMPROVING THE STRUCTURE AND PROPERTIES OF WELDED JOINTS 67-10 M17-78510
THE FORGE WELDING OF LARGE CROSS SECTION STEEL BLANKS 67-10 M17-78513
THE ELECTROSLAG WELDING OF KH17N13M3T STEEL PLATE 67-10 M17-78520
FOR HIGH FATIGUE STRENGTH, SELECT A STRONG STEEL 67-10 M17-78633
EFFECT OF THERMOMECHANICAL TREATMENT ON MECHANICAL PROPERTIES OF CR-NI-MO AUSTENITIC STAINLESS STEEL 67-10 M17-78749
STRENGTH OF NICKEL PLATED WITH BISMUTH IN AN ULTRASONIC FIELD 67-10 M17-78806
EXPERIENCE WITH PRODUCING 14KHGS STEEL FOR GAS MAIN PIPES AT THE KOMMUNAR IRON AND STEEL PLANT 67-10 M17-78926
THE STRUCTURE AND PROPERTIES OF EI437B ALLOY MELTED IN A VACUUM INDUCTION FURNACE 67-10 M17-78932
THE EFFECTS OF THERMOMECHANICAL TREATMENT ON THE MECHANICAL STRENGTH OF SPRING STEELS AFTER THEY HAVE BEEN USED 67-10 M17-78953
SOME PROPERTIES OF VACUUM MELTED NICKEL 67-10 M17-79045
STRAIN HARDENING CRYSTALLINE SOLIDS BY PROGRAMMED LOADING 67-10 M17-79209
THERMOMECHANICAL TREATMENT OF 20GMR STEEL DURING CONTINUOUS COOLING 67-10 M17-79212
EFFECT OF HYDROEXTRUSION ON THE MECHANICAL PROPERTIES OF MOLYBDENUM 67-10 M17-79222
RELAXATION STABILITY OF 30KHGSA STEEL 67-10 M17-79325
LOW-CARBON 713 LC ALLOY 67-10 M17-79934
MECHANICAL PROPERTIES OF 87/7/3/3 GUNMETAL WITH LEAD AND NICKEL ADDITIONS 67-10 M17-79935
HYDROGEN EMBRITTLEMENT OF NIOBIUM-OXYGEN AND NIOBIUM-NITROGEN SOLID SOLUTIONS AT ROOM TEMPERATURE 67-10 M17-80024
CAVITATION RESISTANCE OF CHROMIUM-MANGANESE AUSTENITIC STEELS CONTAINING NITROGEN 67-10 M18-79275
THE PROCESSING OF STELMOR WIRE 67-10 M20-78580
VACUUM ARC MELT FOR SAFE LANDINGS 67-10 M20-78596
EFFECT OF INCREASED COIL WEIGHTS ON THE PROPERTIES OF WIRE ROD AND ON ITS PREPARATION FOR DRAWING 67-11 M07-80364
INFLUENCING THE STRENGTH PROPERTIES OF CU-NI-MO STEELS AFTER THERMOMECHANICAL WORKING THROUGH SPECIAL MELTING TECHNIQUES 67-11 M17-80218
MECHANICAL-TECHNOLOGICAL PROPERTIES OF ULTRAPURE STRUCTURAL STEELS 67-11 M17-80221
CONTRIBUTION TO THE STUDY OF THE HALL AND PETCH FORMULA IN POLYCRYSTALLINE IRON 67-11 M17-80244
HIGH-TEMPERATURE PROPERTIES OF 9 PER CENT CR-1 PER CENT MO STEEL 67-11 M17-80263
ELEVATED-TEMPERATURE TENSILE, CREEP, AND RUPTURE PROPERTIES OF 1 PER CENT CR-1/2 PER CENT MO, 2 1/4 PER CENT CR-1 PER CENT MO AND 1/2 PER CENT CR-1/2 PER CENT MO-1/4 PER CENT V STEELS 67-11 M17-80267
ELEVATED-TEMPERATURE TENSILE, CREEP, AND RUPTURE PROPERTIES OF 18 PER CENT CR-8 PER CENT NI, 18 PER CENT CR-12 PER CENT NI-MO, 18 PER CENT CR-10 PER CENT NI-TI, AND 18 PER CENT CR-12 PER CENT NI-NB STEELS 67-11 M17-80268
A PRELIMINARY SURVEY OF THE ELEVATED-TEMPERATURE TENSILE PROPERTIES OF CAST CARBON STEELS 67-11 M17-80269
THE HIGH-TEMPERATURE PROPERTIES OF A MN-CR-MO-V NORMALIZED AND TEMPERED STEEL--DUCOL W30 67-11 M17-80270
PROPERTIES OF TWO HIGHLY ALLOYED MARTENSITIC STAINLESS STEELS AND A PRECIPITATION-HARDENED AUSTENITIC STAINLESS STEEL IN THE TEMPERATURE RANGE 500 TO 700 C 67-11 M17-80275
THE HIGH-TEMPERATURE PROPERTIES OF AN ADVANCED AUSTENITIC STEEL--ESSHETE 1250 67-11 M17-80276
IMPROVED BOILER-PLATE STEELS 67-11 M17-80277
EFFECT OF MECHANICAL PROPERTIES OF SHEET STEEL ON THE SPRINGBACK OF PRESS-FORMED PARTS 67-11 M17-80503
TENSILE AND FATIGUE PROPERTIES OF ALLOY 718 AT CRYOGENIC TEMPERATURES 67-11 M17-80520
THE SHORT-TIME TENSILE AND LONG-TIME CREEP-RUPTURE PROPERTIES OF THE HF AND HH ALLOYS 67-11 M17-80682
FRACTURE CHARACTERISTICS OF ALUMINUM-ALLOY PLATE IN TENSION TESTS OF LARGE CENTER-SLOTTED PANELS 67-11 M17-80684
THE MECHANICAL BEHAVIOR OF REFRACTORY-METAL ALLOYS 67-11 M17-80791
THE EFFECTS OF AUSFORMING ON THE MECHANICAL PROPERTIES OF 0.2 PER CENT C-3 PER CENT NI-2 PER CENT MO STEEL 67-11 M17-80947
STUDIES OF MALLEABLE IRON CASTINGS WITH SPHEROIDAL GRAPHITE. PT. 1. THE PRODUCTION AND MECHANICAL PROPERTIES OF MALLEABLE IRON CASTINGS WITH SPHEROIDAL GRAPHITE 67-11 M17-80956
ORIENTATION DEPENDENCE OF STRESS-STRAIN CURVES IN VACUUM DEPOSITED SINGLE CRYSTAL GOLD FILMS 67-11 M17-81272
TENSILE AND CREEP PROPERTIES OF SINGLE CRYSTALS OF THE NICKEL-BASE SUPERALLOY MAR-M200 67-11 M17-81344
MECHANICAL BEHAVIOR OF A FIBER REINFORCED METAL AND ITS EFFECT ON ENGINEERING APPLICATION 67-11 M17-81518
COMPOSITES AT LOW TEMPERATURES 67-11 M17-81519

EFFECT OF HYDROSTATIC EXTRUSION ON THE MECHANICAL PROPERTIES OF CUZN AND TINI 67-11 M17-81529
AL CASTING ALLOYS FOR HIGH-TEMPERATURE 67-11 M17-81547
EFFECT OF MAGNETIC IMPULSE DEFORMATION ON THE MECHANICAL PROPERTIES OF NICKEL, IRON AND COPPER 67-11 M17-81662
ON WELCON-2 H CR STEEL WITH HYDROGEN ATTACK RESISTANCE 67-11 M20-81181
THE METALLURGY OF ALLOY 718 67-12 M01-83246
EFFECTS OF NONUNIFORMITY OF OXIDE DISPERSION ON MECHANICAL PROPERTIES OF SINTERED ALUMINUM POWDER ALLOYS AT ROOM AND ELEVATED TEMPERATURES 67-12 M09-83112
EFFECT OF THERMOMECHANICAL TREATMENT ON MECHANICAL PROPERTIES OF CR-NI-MO AUSTENITIC STAINLESS STEEL 67-12 M10-83118
QUENCHED AND TEMPERED NICKEL ALLOY STEELS 67-12 M17-81803
ANNEALED, HOT ROLLED, AND NORMALIZED NICKEL ALLOY STEELS 67-12 M17-81805
NICKEL ALLOY STEEL CASTINGS 67-12 M17-81806
ELEVATED TEMPERATURE PROPERTIES OF NICKEL ALLOY STEELS 67-12 M17-81807
SEMIKILLED STEEL ST.5 GSK WITH IMPROVED WELDABILITY IN PLACE OF KILLED STEEL ST.5K 67-12 M17-81875
THE EFFECT OF ALPHA PLUS BETA AND BETA FORGING ON THE FRACTURE TOUGHNESS OF SEVERAL HIGH-STRENGTH TITANIUM ALLOYS 67-12 M17-81930
INTERNAL STRAIN IN PLASTICALLY DEFORMED TENSILE TESTPIECES OF NICKEL OF DIFFERENT PURITIES 67-12 M17-82058
EXAMINATION OF THE METASTABLE BETA-ALLOYS OF THE TI-MO-FE-AL SYSTEM 67-12 M17-82120
HIGH TEMPERATURE THERMOMECHANICAL TREATMENT OF CARBON STEELS 67-12 M17-82151
MECHANICAL PROPERTIES OF DI-1 STEEL AT ELEVATED TEMPERATURES 67-12 M17-82193
MARAGING STEEL WITH 18 PER CENT NICKEL 67-12 M17-82466
QUENCHED AND TEMPERED GRADE 18G2A STEEL FOR WELDED STRUCTURES 67-12 M17-82496
THE EFFECT OF INHOMOGENEOUS TEXTURES ON MECHANICAL PROPERTIES OF LOW-CARBON STEEL SHEETS 67-12 M17-82582
SILICEOUS FERRITIC MALLEABLE CAST IRON 67-12 M17-82619
TENSILE BEHAVIOR OF POLYCRYSTALLINE YTTRIUM FROM 77 TO 773 K 67-12 M17-83058
SHORT-TIME TENSILE AND LONG-TIME CREEP-RUPTURE PROPERTIES OF THE HK-40 ALLOY AND TYPE 310 STAINLESS STEEL AT TEMPERATURES TO 2000 F 67-12 M17-83240
MECHANICAL PROPERTIES AT ELEVATED TEMPERATURES OF SEAMLESS CARBON STEEL TUBING 67-12 M17-83337
MECHANICAL PROPERTIES AND INTERNAL STRESSES OF FIRST ORDER OF COLD-DEFORMED CONCRETE REINFORCING STEEL BARS 67-12 M17-83396
AUSFORMING STUDY OF THE WORK HARDENING OF METASTABLE AUSTENITE 67-12 M17-83495
DEFORMATION MECHANISMS IN HEXAGONAL METALS WITH A C..A RATIO ABOVE 1.633 67-12 M17-83499
INVESTIGATION OF ON6A AND ON9A STEELS FOR PERFORMANCE AT -196 C 67-12 M17-83531
TITANIUM ALLOYS FOR CRYOGENIC TECHNOLOGY 67-12 M17-83532
LOW-TEMPERATURE MECHANICAL PROPERTIES OF SOME ALUMINUM ALLOY WELDS 67-12 M17-83534
USE OF THE DEFORMED AD33 ALUMINUM ALLOY FOR LARGE COMPONENTS FOR USE AT SEA 67-12 M18-82495
THE CRITERIA OF QUALITY IN GRAY IRON CASTINGS 67-12 M19-83223
TITANIUM CASTINGS FOR AIRFRAME STRUCTURAL APPLICATIONS 67-12 M20-82453
STUDY ON AL203 DISPERSION HARDENED ALUMINUM USED FOR NUCLEAR APPLICATIONS 67-12 M20-82809

TENSILE PROPERTIES, ALLOYING EFFECTS

STUDIES ON THE MANUFACTURING AND MECHANICAL PROPERTIES OF VANADIUM-CONTAINING HIGH-GRADE CAST IRON 67-01 M06-58741
STUDY ON ALUMINUM ALLOYS USED FOR DIECASTING 67-01 M17-57617
DEVELOPMENT OF IMPROVED HIGH STRENGTH STEEL CASTING ALLOYS USING MATHEMATICAL MODELS 67-01 M17-58680
THE EFFECTS OF ADDITIONAL ELEMENTS ON DISCONTINUOUS PRECIPITATION IN COPPER-BERYLLIUM ALLOYS 67-02 M14-59128
INFLUENCE OF ALLOYING ELEMENTS ON AUSTENITE TRANSFORMATION DURING WELDING OF BAINITIC REINFORCING STEELS 67-02 M14-61970
THE EFFECT OF CALCIUM, SILICON, MANGANESE AND CHROMIUM ON THE MECHANICAL PROPERTIES OF FLASH BUTT WELDS 67-02 M17-59110
WHAT COLUMBIUM DOES TO TYPE 410 STAINLESS STEEL 67-02 M17-59465
INFLUENCE OF COPPER ON AL-SI-CU SYSTEM DIE CASTING ALLOYS 67-02 M17-59728
SOME MECHANICAL AND PHYSICAL PROPERTIES OF ALLOYS OF THE TI-CR-FE SYSTEM 67-02 M17-59835
HIGH-STRENGTH PRECIPITATION-HARDENED CONSTRUCTIONAL STEELS 67-02 M17-60692
INFLUENCE OF ZIRCONIUM ON STRAIN AGING OF STEEL 67-02 M17-61969
EFFECT OF CHEMICAL COMPOSITION, MELTING CONDITIONS, TEEMING AND SOLIDIFICATION ON THE MECHANICAL PROPERTIES OF NEW ALUMINUM-MAGNESIUM ALLOYS 67-04 M17-66413
STRUCTURE AND SOME PROPERTIES OF A CB-TA ALLOY WITH ADDITIONS OF W AND MO 67-04 M17-66444
ON THE STUDY OF AL-TH ALLOYS. PT. 1. THE EFFECT OF TH ON THE PROPERTIES OF AL ALLOYS 67-05 M17-68883
DEVELOPMENT OF IMPROVED WROUGHT ALLOYS FOR REFORMER TUBES 67-06 M17-70535
DUCTILITY AND STRENGTH OF IRON CONTAINING 3.1 TO 5.1 PER CENT SI 67-06 M17-70806
THE PRODUCTION OF COLD TOUGH STRUCTURAL STEELS FOR USE AT -65C 67-07 M17-73223
DUCTILITY OF SINTERED UNWORKED MOLYBDENUM-CARBON ALLOYS 67-07 M17-73401
EFFECT OF IRON CONTENT IN SAND-CAST COMPLEX BRASS BS1400..HTB2 AND HTB3 67-07 M17-74256
PROBLEMS ASSOCIATED WITH USE OF COPPER-ALLOY CASTINGS IN MARINE SERVICE 67-08 M17-74901
PROPERTIES OF ALLOYED NI-BE ALLOYS 67-08 M17-74984
A STUDY OF SOME OF THE PROPERTIES OF CAST CHROMIUM-NICKEL STEELS CONTAINING DIFFERENT AMOUNTS OF NICKEL 67-08 M17-75021
PRODUCTION OF CAST IRON WITH INCREASED STRENGTHS AND ELONGATION BY USE OF APPROPRIATE CHARGE MATERIALS AND ALLOYING ADDITIONS 67-08 M17-75031
STUDY ON HIGH-STRENGTH CASTING AL-SI-MG-ZN ALLOYS. PT. 1 67-08 M17-75357
EFFECTS OF CERIUM ON WORKABILITY OF MAGNESIUM 67-08 M17-75358
MILD STEEL WITH NIOBIUM ADDED 67-08 M17-75735
NOTE CONVERNING 13 PER CENT CHROME STEELS 67-08 M17-76234
INFLUENCE OF NIOBIUM AND NITROGEN ON THE STRENGTH OF HAVING A FERRITE-PEARLITE STRUCTURE 67-08 M17-76235
THE EFFECTS OF ADDING SMALL AMOUNTS OF HIGH-MELTING ELEMENTS TO AN ALUMINUM ALLOY CONTAINING 5 PER CENT ZN AND 2 PER CENT MG ON THE STRUCTURE AND PROPERTIES OF THE ALLOY SHEET 67-09 M01-77062
ELEVATED TEMPERATURE PROPERTIES OF ALUMINUM BRONZE --ALLOY D-- PARENT METAL, ROD AND WELD METAL 67-09 M17-76360
RESEARCH INTO ALUMINUM-ZINC-LITHIUM SYSTEM ALLOYS 67-09 M17-77041
EFFECT OF CARBON ON THE STRUCTURE AND TENSILE PROPERTIES OF NIOBIUM AND ITS ALLOYS 67-09 M17-77290
MECHANICAL PROPERTIES OF NIOBIUM-HYDROGEN ALLOYS 67-09 M17-78221
A CAST CHROMIUM STEEL FOR HEAVILY-LOADED COMPONENTS OPERATING AT ELEVATED TEMPERATURES 67-10 M04-79328
EFFECT OF ALLOYING ELEMENTS ON THE KINETICS OF THE TRANSFORMATION OF AUSTENITE DURING WELDING OF BAINITIC REINFORCING STEELS 67-10 M14-78827
THE EFFECT OF VARIOUS NB CONTENTS ON THE MECHANICAL PROPERTIES OF PLATES OF SEMIKILLED AND KILLED STEELS WITH YIELD STRENGTHS BETWEEN 36 AND 46 KG/MM2 67-10 M17-78645
EFFECT OF ZIRCONIUM ON THE SUSCEPTIBILITY OF STEEL TO STRAIN AGING 67-10 M17-78826
THE LOW TEMPERATURE PROPERTIES OF FERRITIC AND AUSTENITIC NODULAR IRONS 67-10 M17-79172
INFLUENCE OF IRON AND MANGANESE ON THE PROPERTIES OF PRESSURE DIE-CAST A-S10 U4 ALLOY 67-11 M06-80528
INFLUENCE OF PRECIPITATES ON THE MECHANICAL

TENSILE PROPERTIES

PROPERTIES OF ZR-CU ALLOYS 67-11 M17-80149
THE EFFECT OF CARBON, NITROGEN, AND BORON ON ELEVATED-TEMPERATURE PROPERTIES 67-11 M17-80282
STRUCTURE AND SOME PROPERTIES OF NIOBIUM-TANTALUM ALLOYS CONTAINING TUNGSTEN AND MOLYBDENUM 67-11 M17-80985
MECHANICAL PROPERTIES OF NB-ZR SOLID SOLUTION ALLOYS 67-11 M17-81064
EFFECT OF MANGANESE ON THE PROPERTIES OF MGZN-1 R. E. M. ALLOY SHEETS 67-11 M17-81162
THE INFLUENCE OF ZIRCONIUM ON DYNAMIC STRENGTHENING OF NIOBIUM ALLOYS 67-12 M17-81826
THE QUALITY ANALYSIS OF UNALLOYED WHITE IRON 67-12 M17-83483

TENSILE PROPERTIES, COMPOSITION EFFECTS
THE EFFECT OF NITROGEN ON THE TENSILE AND CREEP-RUPTURE PROPERTIES OF NIOBIUM 67-01 M17-58459
YIELD STRESS AND OTHER TENSILE PROPERTIES OF NITROGEN OR CARBON CHARGED PURE IRON 67-01 M17-58748
HYDRIDE MORPHOLOGY IN STRESSED ZIRCONIUM AND THE INFLUENCE OF SPECIMEN SIZE ON DUCTILITY 67-02 M17-59021
THE DEFORMATION BEHAVIOR OF ZIRCALOY-2 CONTAINING DIRECTIONALLY ORIENTED ZIRCONIUM HYDRIDE PRECIPITATES 67-02 M17-59023
HIGH ELECTRICAL CONDUCTIVITY AND HIGH HEAT RESISTIVITY OF SOME AL ALLOYS 67-04 M15-67575
NITROGEN IN NONALLOYED FERRITIC METAL 67-04 M17-66568
PROPERTIES OF RAILS WITH HIGH SILICON CONTENT 67-04 M17-66628
EFFECT OF RATIO OF REDUCTION BY ROLLING ON THE MECHANICAL PROPERTIES OF STEEL PLATE PRODUCED FROM CONTINUOUS-CAST SECTIONS 67-07 M17-72555
NITROGEN IN UNALLOYED FERRITIC METAL 67-07 M17-73425
THE EFFECT OF ALFEBE4 ON MECHANICAL PROPERTIES OF FABRICATED POLYCRYSTALLINE BERYLLIUM 67-07 M17-73745

TENSILE PROPERTIES, COOLING EFFECTS
FINE GRAIN SIZE IN BERYLLIUM BY SPLATCOOLING 67-07 M13-73764
EFFECTS OF THE RATE AT WHICH KHN77TYUR --EI4378-- ALLOY IS COOLED FROM THE HOMOGENIZATION TEMPERATURE ON ITS STRUCTURE AND PROPERTIES 67-09 M17-77060

TENSILE PROPERTIES, HEATING EFFECTS
RESEARCH INTO THE EFFECTS OF INDUCTION HEATING DURING NORMALIZATION ON THE MICROSTRUCTURE AND PROPERTIES OF BUTT WELDED JOINTS IN DRILL PIPE 67-02 M10-59790
EFFECT OF HEAT TREATMENT ON STRUCTURAL AND MECHANICAL PROPERTIES OF G-CU AL 11 FE 4-UNI 5274 ALUMINUM BRONZE EXTRUDED BARS 67-02 M14-62099
ON THE MECHANICAL PROPERTIES OF TI-AL-CO ALLOYS AT ROOM TEMPERATURE 67-02 M17-59989
SELECTING AN ANNEALING TEMPERATURE FOR WELDED BRASS CONSTRUCTIONS 67-04 M17-66433
ISOTHERMAL TREATMENT AND MECHANICAL PROPERTIES OF ALLOYED WIRE 67-04 M17-66626
EFFECT OF HEAT TREATMENT ON PROPERTIES OF SHEETS MADE OF ALLOY VD1 67-04 M17-67534
STABILITY OF HIGH-NICKEL ALLOYS IN SUPERHEATED STEAM 67-05 M14-69447
INCREASED RELIABILITY OF A HIGH-STRENGTH STEEL THROUGH THERMAL-MECHANICAL TREATMENTS 67-06 M17-71081
PROPERTIES OF PYROLYTICALLY PRODUCED BORON FIBERS 67-06 M17-71619
EFFECT OF STRUCTURE AND CHEMICAL COMPOSITION ON THE MECHANICAL PROPERTIES AND DEFORMING CHARACTERISTICS OF HYPOEUTECTOID HARDENABLE STRIP STEELS IN ANNEALED CONDITION 67-06 M17-71749
ON THE NATURE OF THE PROCESSES OCCURRING DURING THE TEMPERING OF QUENCHED LOW-CARBON STEEL 67-07 M10-72670
INTENSIFYING THE HEAT TREATMENT OF LOW-ALLOY LOW-CARBON SHEET STEEL 67-07 M10-73791
SELECTING THE STRESS RELIEVING TEMPERATURE FOR BRASS STRUCTURES 67-07 M17-72692
STRENGTHENING AUSTENITIC MANGANESE STEEL BY HEAT TREATMENT AND AUSROLLING 67-08 M04-74586
ANNEALED, HOT ROLLED AND NORMALIZED NICKEL ALLOY STEELS 67-08 M17-75381
THE EFFECTS OF QUENCH AGING, STRAIN AGING, AND SUBSTRUCTURE ON THE TENSILE PROPERTIES OF 1020 STEEL 67-08 M17-76144
INTENSIFYING HEAT-TREATMENT CONDITIONS FOR LOW-ALLOY MILD STEELPLATE 67-09 M10-76554
SHORT-TIME STRENGTH OF PLATINUM, PALLADIUM AND THEIR ALLOYS AT 1100 TO 1400 C 67-09 M17-77417
HEAT TREATMENT AND MECHANICAL PROPERTIES AT ROOM TEMPERATURE OF TI-8 PER CENT AL-4 PER CENT CO ALLOY 67-09 M17-77987
ELECTROFLUX REMELTING IMPROVES PROPERTIES OF INCONEL 718 67-10 M03-78634
HEAT TREATING TITANIUM AND ITS ALLOYS 67-10 M10-78626
HEAT TREATING NICKEL-BASE SUPERALLOYS 67-10 M10-78759
COOLING TRANSFORMATION DIAGRAM FOR AISI 8620 67-10 M10-78761
EFFECT OF RAPID HEAT TREATING ON MECHANICAL PROPERTIES OF LOW-CARBON STEEL SHEET 67-10 M10-79770
UNIFYING THE PROPERTIES OF ALUMINUM FOIL BY CONTROL OF MANUFACTURING CONDITIONS 67-10 M17-78706
A MARAGING STAINLESS FOR 800 TO 1100 F. SERVICE 67-10 M17-78764
EFFECT OF VARIATIONS IN COMPOSITION AND THERMAL TREATMENT ON CAST NICKEL-RICH ALLOY MC. 102 67-10 M17-79031
CHANGE IN FRACTURE STRUCTURE AND IMPACT STRENGTH OF 3KH13N7S2 STEEL AS A RESULT OF OVERHEATING DURING HOT PRESSWORKING AND HEAT TREATMENT 67-10 M17-79326
THE BASIC PRINCIPLES OF HEAT TREATMENT OF STEELS. PT. 7. STEELS FOR USE AT LOW TEMPERATURES 67-11 M10-80394
INFLUENCE OF LONG-TIME THERMAL TREATMENTS ON THE PROPERTIES OF AL-AL2O3 COMPOSITES 67-12 M09-83502
EFFECT OF HEAT TREATMENT ON THE STRUCTURE, MECHANICAL PROPERTIES AND CORROSION CHARACTERISTICS OF VTZ-1 ALLOY 67-12 M10-82190
EFFECT OF THE DEGREE OF STRUCTURAL DISPERSION ON THE PROPERTIES OF CAST MEDIUM-CARBON STEEL 67-12 M10-82192
BURNING-IN OF TIN-BRONZE CASTINGS 67-12 M11-83572
EFFECT OF TEMPERING TEMPERATURE ON THE FATIGUE STRENGTH OF LONGITUDINAL AND TRANSVERSE SPECIMENS OF STEELS OF VARIOUS PURITY 67-12 M17-82842

TENSILE PROPERTIES, IMPURITY EFFECTS
THE EFFECTS OF OXYGEN ON THE MECHANICAL AND CORROSION PROPERTIES OF HAFNIUM 67-01 M17-58457
MECHANICAL PROPERTIES OF REFRACTORY METALS 67-04 M17-66443
EFFECT OF DEGREE OF DEOXIDATION AND THICKNESS OF ROLLED PRODUCT ON THE MECHANICAL PROPERTIES OF LOW-CARBON STEEL AND BRITTLE FRACTURE IN ELEMENTS OF METAL STRUCTURES 67-05 M17-68555
EFFECT OF RESIDUALS IN STEEL FOR WIRE 67-06 M04-72023
EFFECT OF DEGREE OF DEOXIDATION AND THICKNESS OF ROLLED PRODUCT ON MECHANICAL PROPERTIES OF LOW CARBON STEEL AND THE OCCURRENCE OF BRITTLE FRACTURE IN METALLIC STRUCTURES 67-07 M17-72466
EFFECTS OF PURIFICATION, AGGLOMERATION AND HEAT TREATMENT ON THE PROPERTIES OF BERYLLIUM SINGLE CRYSTALS 67-07 M17-73737
SEGREGATION AND INCLUSIONS IN ZIRCONIUM-CONTAINING MAGNESIUM CASTING ALLOYS 67-10 M19-79751
MECHANICAL PROPERTIES OF REFRACTORY METALS 67-11 M17-80984

TENSILE PROPERTIES, POWDER METALLURGY
PRESSIBILITY OF SINTERED IRON 67-07 M17-72522

TENSILE PROPERTIES, PRESSURE EFFECTS
THE EFFECT OF HIGH-PRESSURE HYDROGEN UPON THE TENSILE PROPERTIES AND FRACTURE BEHAVIOR OF 304L STAINLESS STEEL 67-08 M17-75979

TENSILE PROPERTIES, RADIATION EFFECTS
EFFECTS OF IRRADIATION AND ENVIRONMENT ON THE MECHANICAL PROPERTIES AND HYDROGEN PICKUP OF ZIRCALOY 67-02 M17-59026
EFFECT OF NEUTRON IRRADIATION ON TENSILE PROPERTIES OF THE ZIRCONIUM-2.5 WEIGHT PER CENT NIOBIUM

ALLOY 67-02 M17-59029
THE USE OF SPHERICAL UO2 IN A CERMET FUEL PLATE 67-06 M16-71053
EFFECTS OF NEUTRON IRRADIATION ON THE FLOW AND FRACTURE BEHAVIOR OF ZIRCALOY-2 67-07 M17-73394
STRUCTURES AND EQUIPMENT FOR CHEMICAL, FOOD, DRUG, BEVERAGE AND ATOMIC INDUSTRIES 67-08 M20-74825
EXTREMES IN ENVIRONMENTAL TESTING 67-11 M17-81239
EFFECT OF CHEMICAL COMPOSITION AND NEUTRON IRRADIATION ON BRITTLE FRACTURE OF IRON AND STEEL 67-12 M16-82815
THROUGH-THICKNESS NOTCH DUCTILITY AND TENSION PROPERTIES AS A FUNCTION OF NEUTRON EXPOSURE TO A SIMULATED PRESSURE VESSEL WALL OF A 320-B STEEL 67-12 M16-83253

TENSILE PROPERTIES, SIZE EFFECTS
THE EFFECT OF SPECIMEN SIZE ON THE TENSILE STRENGTH OF PLASTIC COPPER ALLOYS 67-10 M17-78708

TENSILE PROPERTIES, STRESS EFFECTS
EFFECT OF PLASTIC DEFORMATION ON THE PROPERTIES OF OKHN40MDTYU --EP543-- ALLOY 67-03 M17-65782
STUDY OF THE EFFECT OF PLASTIC DEFORMATION DURING INTERMITTENT AGING ON THE STRUCTURE AND PROPERTIES OF AN ALUMINUM-MAGNESIUM ALLOY 67-04 M17-67385

TENSILE PROPERTIES, TEMPERATURE EFFECTS
LOW-TEMPERATURE IMPACT-RESISTANT STAINLESS STEELS USED IN WELDED VESSELS --TANKS-- 67-02 M17-59412
MECHANICAL PROPERTIES OF KH21G7AN5 STEEL AT LIQUID HYDROGEN TEMPERATURE 67-02 M17-61978
PLASTIC DEFORMATION OF TITANIUM AT LOW TEMPERATURES 67-02 M17-61980
INVESTIGATION OF THE STRUCTURE OF MG-3 PER CENT ND ALLOY, SUBJECTED TO HIGH-TEMPERATURE PLASTIC DEFORMATION 67-02 M17-62084
SHORT-TIME ELEVATED TEMPERATURE MECHANICAL PROPERTIES OF 2219-T87 AND 2219-T6 ALUMINUM ALLOY 67-06 M17-71627
ON THE HIGH-TEMPERATURE STRENGTH OF AUSTENITIC HEAT RESISTING ALLOYS 67-06 M17-71719
STRENGTH OF ALUMINUM WITH FINELY LINED LAYERS OF ALUMINUM OXIDE AT ROOM TEMPERATURE AND HIGH TEMPERATURE 67-07 M17-72517
MECHANICAL AND FORMING PROPERTIES OF INGOT BERYLLIUM SHEET 67-07 M17-73761
MECHANICAL PROPERTIES OF HIGH-STRENGH STEELS AT ELEVATED TEMPERATURES 67-08 M17-74342
MECHANICAL PROPERTIES OF THE EI827 ALLOY AT LOW TEMPERATURES 67-08 M17-76021
LOW-TEMPERATURE --295 TO 4K.-- MECHANICAL PROPERTIES OF SELECTED COPPER ALLOYS 67-08 M17-76146
NITROGEN-ALLOYED HEAT AND SCALE-RESISTANT STEEL CASTINGS. PT. 1 67-09 M17-76521
EFFECT OF AGING ON THE TENSILE PROPERTIES OF ALLOY 7039 GTA WELDS AT LOW TEMPERATURES 67-09 M17-77489
MULTIAXIAL STATE OF STRESS AND FRACTURE 67-09 M17-77851
MECHANICAL PROPERTIES OF SEVERAL NICKEL-BASE ALLOYS AT ROOM AND CRYOGENIC TEMPERATURES 67-09 M17-78271
MECHANICAL PROPERTIES OF KH21G7AN5 STEEL AT THE TEMPERATURE OF LIQUID HYDROGEN 67-10 M17-78835
CHARACTERISTICS OF PLASTIC DEFORMATION OF TITANIUM AT LOW TEMPERATURES 67-10 M17-78837
ELEVATED-TEMPERATURE TENSILE, CREEP, AND RUPTURE PROPERTIES OF VARIOUS CARBON STEELS 67-11 M17-80264
INFLUENCE OF TEMPERATURE AND DEFORMATION RATE ON MECHANICAL PROPERTIES OF AMG6 ALUMINUM ALLOY 67-12 M17-81841

TENSILE PROPERTIES, WELDING EFFECTS
MECHANICAL PROPERTIES OF JOINTS IN SMALL-DIAMETER THIN-WALLED TUBES IN ROLLING WELDING 67-04 M17-67008
EFFECT OF WELDING CONDITIONS ON THE STRENGTH OF WELDED AL ALLOY MEMBERS 67-05 M11-68861
TOMORROWS CHALLENGE TO WELDING 67-06 M11-70133
ULTRATOUGH STEEL WELD METALS 67-06 M11-70139
MECHANICAL PROPERTIES OF SEAM WELDED JOINTS IN THIN WALLED SLENDER TUBES 67-08 M17-74767

TENSILE SHEAR STRENGTH
SEE SHEAR STRENGTH

TENSILE STRENGTH
TITANIUM FIXTURES--THEIR CONSTRUCTION AND USE 67-01 M01-58122
PRELIMINARY ANALYSIS OF THE FACTORS AFFECTING THE BALLING OF IRON ORE FINES 67-01 M02-57512
EVALUATION OF STAINLESS STEEL CASTING ALLOYS FOR CRYOGENIC SERVICE IN THE 80-INCH LIQUID-HYDROGEN BUBBLE CHAMBER 67-01 M11-57622
IMPROVEMENT OF THE PROPERTIES OF EXTRUDED CONDUCTOR ALUMINUM 67-01 M14-58381
METHOD OF INVESTIGATING THE TENSILE STRENGTH OF SPECIMENS BY PRESSURE IMPULSE 67-01 M17-57141
TENSILE STRENGTH AND WEAR RESISTANCE OF STEEL IN RELATION TO QUENCHING TEMPERATURE 67-01 M17-57191
THE FAILURE OF COPPER-TUNGSTEN FIBER COMPOSITES IN REPEATED TENSION 67-01 M17-57222
SILICON.. CARBON RATIO--HOW IT AFFECTS STRENGTH AND SHRINKAGE OF CAST IRON 67-01 M17-57400
TITANIUM AS AN AEROSPACE MATERIAL 67-01 M17-57456
METALLURGICAL EVALUATION OF A NEW ALUMINUM CASTING ALLOY DEVELOPED FOR SPACE VEHICLE USE AT CRYOGENIC TEMPERATURES 67-01 M17-57623
SHEAR STRENGTH OF SEVERAL ALLOYS AT LIQUID-HYDROGEN TEMPERATURES 67-01 M17-57625
MECHANICAL PROPERTIES OF SEVERAL 2000 AND 6000 SERIES ALUMINUM ALLOYS 67-01 M17-57627
CAST IRON AND BRINELL HARDNESS. PT. 1 67-01 M17-58119
MECHANICAL PROPERTIES OF VARIOUS HEAT TREATED STRUCTURES IN THE LOW-CARBON LOW-ALLOY STEEL 67-01 M17-58247
PROPERTIES OF STEEL PLATES --SUMITEN 60-- HAVING TENSILE STRENGTH OF 60 KG/MM2 67-01 M17-58248
THE ATMOSPHERIC-CORROSION-RESISTANT STEEL, SUMITOMO CR2-50 67-01 M17-58249
STEEL PLATE FOR BOILERS 67-01 M17-58250
THE BEHAVIOR OF SUBMERGED ARC WELDED PIPE WHEN SUBJECTED TO REPETITIVE INTERNAL PRESSURE STRESSES 67-01 M17-58284
ALUMINUM AND ALUMINUM ALLOYS IN SHEET, PLATE AND TUBE FORM 67-01 M17-58306
THE EFFECT OF CHEMICAL POLISHING ON THE STRENGTH AND FRACTURE CHARACTERISTICS OF AMORPHOUS BORON FILAMENTS 67-01 M17-58423
HIGH-STRENGTH WELDABLE 13 PER CENT CHROMIUM CASTING STEEL 67-01 M17-58619
RATIONAL METHODS OF THERMOMECHANICAL WORKING TITANIUM ALLOY VT 15 AND ITS WELDED JOINTS 67-02 M10-58981
THE WELDING OF 35GS REINFORCING STEEL DURING THE CONSTRUCTION OF PITHEAD GEAR IN WINTER 67-02 M11-59643
STRENGTH OF ROTATING DISKS 67-02 M17-58812
A METHOD OF CONSTRUCTING AND ANALYZING TRUE TENSILE DIAGRAMS 67-02 M17-58837
ON THE CONNECTION BETWEEN TENSILE AND YIELD LIMITS OF STEEL DURING TENSION 67-02 M17-58839
DEFORMATION RESISTANCE OF EP375 AND EP495 ALLOYS 67-02 M17-58878
THE LOAD TESTING OF DOUBLE STRAP JOINTS MADE FROM GRADE ST 37 STEEL HAVING FLANK AND FRONTAL FILLET WELDS 67-02 M17-59145
THE FORTUITOUS STRENGTH OF WELDED JOINTS 67-02 M17-59146
THE PROPERTIES OF LOW-CARBON IRON-NICKEL-CHROMIUM MARTENSITES 67-02 M17-59426
DISCUSSION OF EFFECTS OF GRAIN SIZE ON TENSILE AND CREEP PROPERTIES OF ARC-MELTED AND ELECTRON BEAM-MELTED TUNGSTEN AT 2250 TO 4140 F 67-02 M17-59444
THE RELATION BETWEEN THE STRENGTH AND THE CONDITIONS OF PREPARING CU AND AL VACUUM CONDENSATES 67-02 M17-59556
DETAILS OF THE ADSORPTIVE DECREASE IN STRENGTH OF POLYCRYSTALLINE ZINC IN THE PRESENCE OF GALLIUM 67-02 M17-59637
EFFECT OF METALS DISSOLVED IN MERCURY ON THE ADSORPTIVE DECREASE IN STRENGTH OF ZINC 67-02 M17-59658
PROPERTIES OF MILD STEEL FROM 290 TO 970 K. OBTAINED USING DIFFERENT TYPES OF HEAT TREATMENT 67-02 M17-59689
STRENGTH TESTS ON BRITTLE MATERIALS WITH PARTICULAR REFERENCE TO CAST IRONS 67-02 M17-59714

CALCULATION OF THE WORK-HARDENING CHARACTERISTICS OF TENSILE TESTED POLYCRYSTALLINE METALS 67-02 M17-59718
AN IRON BASE ALLOY 67-02 M17-59954
PRESENT USE OF HIGH-STRENGTH STEEL FOR BRIDGE AND PENSTOCK STRUCTURES 67-02 M17-59965
CORRELATIONAL RELATIONSHIP BETWEEN HARDNESS AND TENSILE STRENGTH DURING STRETCHING FOR HIGH-STRENGTH MAGNESIUM IRONS 67-02 M17-60672
EFFECT OF SOME METALLURGICAL FACTORS ON THE MECHANICAL PROPERTIES OF FORGED STEEL 67-02 M17-60791
RESEARCH INTO THE EFFECT OF THE SHAPE OF TESTPIECES ON THEIR STRENGTH 67-02 M17-61061
INFLUENCE OF SUBSTRUCTURE ON YIELD STRENGTH OF D16 ALLOY 67-02 M17-61557
INFLUENCE OF SURFACE DEFECTS ON THE MECHANICAL PROPERTIES OF THIN-WALLED TUBING OF 304 STAINLESS STEEL 67-02 M17-61963
PROPERTIES OF 2KH13L STEEL IN MARTENSITIC STATE 67-02 M17-61991
SELECTION OF STEELS AND HEAT TREATMENTS FOR EASE OF COLD EXTRUSION. PT. 1 67-03 M07-65761
MECHANICAL PROPERTIES OF VANADIUM-CARBON ALLOYS 67-03 M17-65128
NEW VANADIUM-COLUMBIUM ALLOYS RESIST HIGH AND LOW TEMPERATURES 67-03 M17-65211
STRENGTH AND STRUCTURE OF VERY FINE SAPPHIRE WHISKERS 67-03 M17-65342
THE ULTRA-COLD WORKED DUCTILE STATE OF 70/30 BRASS. COMPARISON WITH MAGNESIUM 67-03 M17-65550
NEW DATA ON STEEL FOR HYDROCRACKING 67-03 M17-65810
HARDENABLE LOW-CARBON STEEL. U. S. STEELS Q-TEMP 67-04 M01-66293
DEVELOPMENT OF TUBE WELDING TECHNIQUES FOR CARBON STEEL FEEDWATER HEATERS 67-04 M11-67624
DETERMINING THE AMOUNT OF AUSTENITE IN MULTI-PHASE HARD DEPOSITED METAL 67-04 M12-67174
EFFECT OF MANGANESE ON THE STRUCTURE AND PROPERTIES OF NONMAGNETIC STAINLESS STEELS 67-04 M15-67974
INVESTIGATION OF THE EFFECT OF ALTERNATING ELECTRICAL HEAT TREATMENT ON THE MECHANICAL PROPERTIES OF 40KHN STEEL 67-04 M17-66091
THE MECHANICAL BEHAVIOR OF REFRACTORY-METAL ALLOYS 67-04 M17-66196
EFFECT OF RARE-EARTH METALS ON PROPERTIES OF 12KH1MF STEEL 67-04 M17-66217
TEXTURED TITANIUM IN DESIGN 67-04 M17-66290
SOME PROPERTIES OF POLYCRYSTALLINE MOLYBDENUM 67-04 M17-66452
WELDED SPIRAL-LAYERED PRESSURE CONTAINERS 67-04 M17-66561
OXIDE DISPERSION-STRENGTHENED NIAL AND FEAL 67-04 M17-66933
CREEP PROPERTIES OF CR-NI-MO AUSTENITIC STEEL IN RELATION TO STRUCTURE 67-04 M17-66983
INFLUENCE OF MOLYBDENUM ON THE STRUCTURE AND PROPERTIES OF A CARBIDE-BEARING AUSTENITIC STEEL 67-04 M17-67023
STATISTICAL ESTIMATION OF STRENGTH OF POROUS IRON SPECIMENS 67-04 M17-67342
NATURAL AND ARTIFICIAL AGING OF CSN 10602 STEEL 67-04 M17-67435
VARIATIONS OF THE STRUCTURE AND PROPERTIES OF SOME CARBON STEELS UNDER CYCLIC LOADS BELOW THE FATIGUE LIMIT 67-04 M17-67439
MECHANICAL PROPERTIES OF BUTT JOINTS OF ALUMINUM LEADS WELDED BY DIFFERENT TECHNIQUES 67-04 M17-67447
THE RELATIONSHIP BETWEEN MECHANICAL PROPERTIES AND THE MICROSTRUCTURE OF CR STEELS WITH 0.6-1 PER CENT C 67-04 M17-67711
SILICA FIBER REINFORCED ALUMINUM 67-04 M17-67736
STRENGTH AND DUCTILITY OF ALLOYED STEELS AFTER LOW TEMPERATURE THERMOMECHANICAL TREATMENT 67-04 M17-67963
EFFECT OF THE ADDITION OF SMALL AMOUNTS OF TITANIUM ON THE PROPERTIES AND STRUCTURE OF LOW-CARBON AND LOW-ALLOYED STEELS 67-04 M17-67968
EFFECT OF SHORT HEATING PERIODS ON THE MECHANICAL PROPERTIES OF 20S SHEET STEEL 67-04 M17-67969
MECHANICAL PROPERTIES OF AUSTENITIC STAINLESS STEELS AT -253 C 67-04 M17-67984
ON THE RELATIONSHIP BETWEEN THE TENSILE STRENGTH AND YIELD POINT FOR STEELS 67-04 M17-68085
THE STRENGTH AND DUCTILITY OF AUTOMATIC ARGON ARC WELDED JOINTS IN TITANIUM ALLOYS VT14 AND VT6S 67-05 M11-68267
EFFECT OF VIBRATION ON PROPERTIES AND STRUCTURE OF BRAZED SEAMS 67-05 M11-69410
BLOCK DISORIENTATION AND THE LOW-TEMPERATURE STRENGTH OF ALUMINUM 67-05 M17-68842
ON THE BRITTLENESS OF METALLIC COMPOUNDS 67-05 M17-68970
INVESTIGATION OF THE PHYSICAL AND MECHANICAL PROPERTIES OF A-4 TYPE REINFORCING STEEL 67-05 M17-69271
STAINLESS STEEL WIRE FEATURES GREAT STRENGTH AT HIGH TEMPERATURES 67-05 M17-69498
DEVELOPMENT OF 3.5 PER CENT NI-CR-MO ULTRA-HIGH STRENGTH STEEL AND ITS WELDABILITY 67-05 M17-69702
EVALUATION OF MECHANICAL PROPERTIES OF 2014-T6 WELDMENTS BY NONDESTRUCTIVE --EDDY CURRENT-- METHODS 67-05 M19-69086
EFFECT OF MICROPOROSITY ON THE TENSILE PROPERTIES OF QE22A ALLOY 67-06 M08-70674
SOME OBSERVATIONS ON THE MARSTRAINING OF A 12 PER CENT CHROMIUM STEEL 67-06 M10-70879
INFLUENCE OF AUSROLLING BY TWISTING ON BRITTLE FAILURE OF HIGH-CARBON STEELS 67-06 M17-70066
BEHAVIOUR OF WIRE REINFORCED PLASTICS USING THE WIRE SHEET AS REINFORCING MATERIAL 67-06 M17-70617
INFLUENCE OF SIZE AND SHAPE ON THE TENSILE STRENGTH OF BRITTLE MATERIALS 67-06 M17-71049
THE EFFECT OF FINITE SPECIMEN WIDTH ON THE RESIDUAL STRENGTH OF LIGHT ALLOY SHEET 67-06 M17-71499
DEFORMATION AND STRENGTH OF END FILLET WELDS 67-06 M17-71600
PREDICTION OF PHYSICAL PROPERTIES IN ARC WELDING 67-06 M17-71687
MECHANICAL BEHAVIOR OF A CONTINUOUS FILAMENT CARBON COMPOSITE 67-07 M09-73345
BORON CARBIDE FILAMENTS FROM ORGANOBORANES 67-07 M09-73350
CONTINUOUS SILICON CARBIDE FILAMENTS 67-07 M09-73351
STRESS-RUPTURE AND TENSILE TEST TECHNIQUES FOR SINGLE BORON FILAMENTS AT ROOM AND ELEVATED TEMPERATURES 67-07 M09-73367
THE COMPACTION OF METAL POWDERS BY ROLLING 67-07 M09-73866
THE STRENGTH OF CU-AU SOLID SOLUTIONS WITH DIFFERENT CONCENTRATION DISTRIBUTIONS 67-07 M17-72518
STUDIES ON THE MECHANICAL PROPERTIES OF HOT EXTRUDED BERYLLIUM AT ELEVATED TEMPERATURES 67-07 M17-72984
CORRELATION BETWEEN HARDNESS AND ULTIMATE TENSILE STRENGTH FOR HIGH-TENSILE MAGNESIUM CAST IRONS --EXCHANGE OF EXPERIENCE-- 67-07 M17-73108
INFLUENCE OF GRAIN SIZE ON ADSORPTION-CAUSED DECREASE IN STRENGTH OF POLYCRYSTALLINE ZINC 67-07 M17-73167
STRENGTH OF IRON-ZINC ALLOY LAYERS 67-07 M17-73234
OBSERVATIONS ON AN EFFECT OF THE CHARGE MIXTURE ON THE STRUCTURE AND MECHANICAL PROPERTIES OF BLACK-HEART MALLEABLE CAST IRON 67-07 M17-73243
ULTRASONIC EXAMINATION OF CAST IRON 67-07 M17-73254
THE EFFECT OF PHOSPHORUS ON THE MECHANICAL PROPERTIES AND WEAR RESISTANCE OF CAST IRON 67-07 M17-73478
RELATIONSHIP OF THE MECHANICAL PROPERTIES OF THE HEAT AFFECTED ZONE IN STRUCTURAL STEELS TO THE THERMAL WELDING CYCLE 67-07 M17-73966
COLUMBIUM AND TANTALUM ALLOY DEVELOPMENT 67-08 M01-74672
FIBER REINFORCED COMPOSITE MATERIALS 67-08 M09-74922
MECHANISM OF LIQUID PHASE SINTERING IN THE IRON-COPPER SYSTEM 67-08 M09-75389
DETERMINING FUSION STRENGTH IN INDUCTION BUILDUP OF HARD ALLOYS 67-08 M11-75413
STRAIN AGING OF MARTENSITE TEMPERED BELOW 400 F 67-08 M14-75973
DETERMINING THE STRENGTH AND PLASTICITY OF NODULAR IRON IN CRANKSHAFT CASTINGS BY THEIR

HARDNESS 67-08 M17-75199
EFFECT OF HEAT TREATMENT ON MECHANICAL PROPERTIES OF ABRASIVE GRAIN 67-08 M17-75569
ELEVATED TEMPERATURE STRENGTH OF TUBES AND PIPES FOR HIGH-TEMPERATURE SERVICES 67-08 M17-75808
ROOM AND ELEVATED TEMPERATURE STRENGTH OF ALPHA-AL2O3 WHISKERS AND THEIR STRUCTURAL CHARACTERISTICS 67-08 M17-76141
DEFORMATION PROPWETIES OF THE ALPHS PLUS BETA TITANIUM ALLOY, TIAL 8 MO 1 V 1 67-08 M17-76150
CONTRIBUTION TO THE INVESTIGATION OF THE PROBLEM OF THE RUPTURE OF EXTRA-MILD STEEL IN THE PRESENCE OF H2 67-08 M17-76220
NONDESTRUCTIVE DETERMINATION OF MECHANICAL PROPERTIES OF REFRACTORY MATERIALS 67-08 M19-75522
STUDY OF WARM WORKING. PT. 3. WARM DRAWING OF COPPER ALLOYS 67-09 M07-78251
INFLUENCE OF LITHIUM ON MECHANICAL PROPERTIES OF ARMCO IRON 67-09 M17-76427
INFLUENCE OF DIFFUSION CHROMIZING ON SOME PHYSICAL AND MECHANICAL PROPERTIES OF CARBON STEEL 67-09 M17-76434
THE MECHANICAL PROPERTIES OF CAST IRON WITH SPHEROIDAL GRAPHITE IN THICK-WALLED PARTS 67-09 M17-76520
DISPERSION STRENGTHENED LEAD--PROPERTIES AND POTENTIALITIES IN CHEMICAL PLANT AND SOME EARLY FIELD TRIALS 67-09 M17-76603
THE PROPERTIES AND STRUCTURE OF ALUMINUM-SILICON-ZINC ALLOYS 67-09 M17-76883
EFFECTS OF VIBRATIONS ON THE PROPERTIES AND STRUCTURES OF BRAZED SEAMS 67-10 M11-78514
METAL CLAD EXTENDS COPPER CONDUCTOR RANGE TO 1300 F 67-10 M12-80093
HEAT CONDUCTIVITY, STRENGTH AND COMPOSITION OF SOME CAST IRON MATERIALS 67-10 M15-79783
A STATISTICAL ANALYSIS OF ALUMINUM WELDS TESTED AT CRYOGENIC TEMPERATURES 67-10 M17-78487
CRYOGENIC PROPERTIES OF 18NI-9CO-5MO AND 18NI-7CO- 67-10 M17-78491
EFFECT OF HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT ON THE RESISTANCE TO RUPTURE OF HIGH-CARBON STEELS STRAINED BY TORSION 67-10 M17-78812
PROPERTIES OF 2KH13L STEEL WITH A MARTENSITE STRUCTURE 67-10 M17-78848
A HIGH-TENSILE STEEL FOR DRILL AND DRIVE PIPES 67-10 M17-78924
AL-SI CASTING ALLOYS WITH HIGH-SI CONTENT 67-11 M06-80459
RECRYSTALLIZATION AND MECHANICAL PROPERTIES OF COPPER, TENSILE STRAINED AT LOW TEMPERATURES 67-11 M14-80734
THE ANALYSIS AND ASSESSMENT OF ELEVATED-TEMPERATURE LOWER YIELD OR PROOF STRESS, CREEP, AND STRESS-RUPTURE DATA 67-11 M17-80258
QUENCHED AND TEMPERED CARBON-MANGANESE STEELS FOR USE AT ELEVATED TEMPERATURES 67-11 M17-80271
STRAIN AGING OF LIGHT STEEL SECTIONS 67-11 M17-80339
SELECTED METALLURGICAL ASPECTS OF CLADDING MATERIALS 67-11 M17-80473
CHANGES IN THE MECHANICAL PROPERTIES OF X10NICRWTI36.15 STEEL MELTED IN AN ELECTRIC FURNACE, CAUSED BY REMELTING IN A MULTIPLE-CHAMBER ELECTRON BEAM FURNACE 67-11 M17-80846
TENSILE STRENGTH OF DUCTILE SCREW THREADS 67-11 M17-80900
SOME PROPERTIES OF UNALLOYED MOLYBDENUM 67-11 M17-80993
A RAPID METHOD OF TESTING THE HOT TENSILE STRENGTH OF REFRACTORY ALLOYS 67-11 M17-81056
TECHNIQUE FOR THE DETERMINATION OF DYNAMIC-TENSILE-STRENGTH CHARACTERISTICS 67-11 M17-81091
PROBLEMS AND NOTES ON THE MANUFACTURE OF STEEL WIRES FOR ACSR OVERHEAD TRANSMISSION LINES 67-12 M01-82652
STEELS FOR ADVANCED TECHNOLOGY 67-12 M01-82802
PREDICTION OF EXTRUSION PRESSURES IN THE COLD FORGING OF STEEL 67-12 M07-82767
DETERMINING THE FUSION ZONE STRENGTH WHEN HARD ALLOYS ARE DEPOSITED BY INDUCTION 67-12 M11-82034
AN APPROXIMATE ESTIMATION OF THE STRENGTH INDICES OF THE HEAT AFFECTED ZONE METAL IN THE WELDING OF CARBON AND LOW ALLOY STEELS 67-12 M15-82240
PROPERTIES OF MOTTLED IRON AT ELEVATED TEMPERATURES 67-12 M17-81980
DYNAMIC STRENGTH OF TENSION MEMBERS --EXTENDERS-- MADE OF MR47-VP MO-RE ALLOY 67-12 M17-81994
STRUCTURE AND MECHANICAL PROPERTIES OF WC-TAC-CO SINTERED CARBIDES 67-12 M17-82160
SIMILARITY CRITERIA FOR THE ACTION OF MERCURY ON BRASS 67-12 M17-82181
ON THE STRUCTURE AND MECHANICAL PROPERTIES OF COPPER ROLLED AT 4.2 TO 300 K 67-12 M17-82341
DETERMINATION OF TENSILE STRENGTH AND FATIGUE LIMIT OF GRAY CAST IRON 67-12 M17-82392
THE STATIC STRENGTH OF ALUMINIUM ALLOY SHEET SPECIMENS CONTAINING BLUNT NOTCHES 67-12 M17-82474
CONTRIBUTION TO THE DISPERSION-HARDENING OF AG 67-12 M17-82666
MECHANICAL PROPERTIES OF METAL IMPREGNATED GRAPHITES 67-12 M17-82811
THE EFFECT OF SPECIMEN PREPARATION ON THE MECHANICAL PROPERTIES OF MALLEABLE CAST IRON 67-12 M17-82939
THE FATIGUE AND TENSILE FRACTURE OF TD-NICKEL 67-12 M17-82972
OBSERVATIONS ON THE TENSILE STRENGTH OF AMORPHOUS BORON 67-12 M17-83012
MECHANICAL PROPERTIES OF COPPER CLAD ALUMINUM WIRE. PT. 2. STUDIES ON FABRICATION OF ULTRAFINE WIRE OF ALUMINUM AND ALUMINUM ALLOYS 67-12 M17-83110
MANUFACTURE OF PLATE FUEL ELEMENTS FOR RESEARCH REACTORS 67-12 M20-82810

TENSILE STRENGTH, ALLOYING EFFECTS
NIOBIUM ALLOYS CONTAINING BERYLLIUM 67-01 M17-58538
THE INFLUENCE OF VANADIUM AND NIOBIUM ON THE MECHANICAL PROPERTIES AND WELDABILITY OF CARBON STEEL. PT. 1. AS ROLLED 67-02 M17-58846
INFLUENCE OF ZN ON THE PROPERTIES OF CREEP-RESISTING MG-ND-ZR ALLOYS 67-02 M17-61197
INFLUENCE OF ADDING CERIUM ALLOY MM5 ON THE PROPERTIES OF HEAT-RESISTING ALUMINIUM-SILICON CAST IRONS 67-02 M17-61199
INFLUENCE OF ALLOYED ELEMENTS ON THE MECHANICAL PROPERTIES OF QUENCHED STEEL SUBJECTED TO COLD DEFORMATION 67-05 M17-68377
EFFECT OF THE CONCENTRATION OF ALUMINUM ON THE STRENGTH PROPERTIES OF ALUMINUM BRONZES 67-05 M17-69269
BOOSTING LIGHT METAL PROPERTIES WITH BERYLLIUM 67-06 M01-71010
EFFECTS OF RARE ELEMENTS ON THE PROPERTIES OF ALLOY ALLOY 67-06 M17-70096
THE PART PLAYED BY VANADIUM IN ZINC-COPPER ALLOYS 67-06 M17-71120
PROPERTIES OF VANADIUM-BASE TUNGSTEN AND CHROMIUM ALLOYS 67-06 M17-71406
APPLICATION OF HIGH-PURITY AL IN THE DEVELOPMENT OF HIGH-STRENGTH AL-ZN-MG-CU ALLOYS 67-06 M17-71979
EFFECT OF CU IN GRAY CAST IRONS 67-06 M17-71980
THE EFFECT OF AL-CR AND AG-ZR ADDITIONS ON THE MECHANICAL PROPERTIES AND STRESS CORROSION BEHAVIOR OF HIGH-STRENGTH ALZNMGCU ALLOYS 67-06 M18-71984
SOME PROPERTIES OF P/M NICKEL ALLOY STEEL 67-07 M09-73958
MECHANICAL PROPERTIES, STRUCTURE AND INOCULATION TREATMENT OF ANTIMONY-BEARING CAST IRON 67-07 M17-73261
MECHANICAL PROPERTIES OF NODULAR CUPOLA IRON 67-07 M17-74052
MONEL METAL-BASE POWDER COMPOSITE COMPACTING MATERIAL 67-08 M09-74913
INFLUENCE OF ADDITIONS OF BERYLLIUM, THALLIUM, AND SILICON ON THE HEAT RESISTANCE AND ELECTRICAL AND MECHANICAL PROPERTIES OF SILVER 67-08 M15-74998
INCREASING THE STRENGTH OF CONDUCTORS MADE OF COPPER ALLOYS 67-08 M17-74862
NEW AUSTENITIC STAINLESS STEELS 67-08 M17-75101
EFFECT OF NI ON LOW NI-CR CAST IRON 67-09 M01-77248
INFLUENCES OF THE ADDITIONAL ELEMENTS ON SOME

PROPERTIES OF HIGH-ZIRCONIUM CU ZR ALLOYS 67-09 M01-77249
INFLUENCE OF COPPER UPON STRUCTURE AND MECHANICAL PROPERTIES OF GREY CAST IRON--RESULTS OF A SYSTEMATIC INVESTIGATION 67-10 M17-79404
THE TENSILE STRENGTH OF NIOBIUM-MOLYBDENUM ALLOYS 67-11 M17-80318
THE EFFECTS OF ADDITIONS OF CHEMICALLY PURE ELEMENTS ON PRECIPITATION OF AGE-HARDENABLE AL-ZN-MG ALLOYS 67-12 M10-83108
PHASE COMPOSITION OF ALUMINUM-RICH WELDS ALLOYED WITH RARE EARTH METALS 67-12 M13-81921
EFFECT OF CONTROLLED HEAT TREATMENT ON PROPERTIES OF AL-ZN-MG-CU ALLOYS 67-12 M17-82711

TENSILE STRENGTH, ANISOTROPY
THE EFFECT OF FIBER ORIENTATION AND MORPHOLOGY ON THE TENSILE BEHAVIOR OF AL3NI WHISKER REINFORCED ALUMINUM 67-12 M17-82129
THE EFFECT OF THERMOMECHANICAL TREATMENTS ON THE ELASTIC STORED ENERGY IN TD NICKEL 67-12 M17-82956

TENSILE STRENGTH, COMPOSITION EFFECTS
EVALUATION ON THE QUALITY OF FLAKE GRAPHITE CAST IRON 67-03 M17-65843
STRUCTURE AND MECHANICAL PROPERTIES OF CB-V-TI ALLOYS 67-04 M13-66447
STRENGTHENING MECHANISMS IN STEELS 67-05 M17-69712
STRUCTURE AND MECHANICAL PROPERTIES OF NB-V-TI ALLOYS 67-11 M13-80988

TENSILE STRENGTH, COOLING EFFECTS
EFFECT OF QUENCH RATE ON MECHANICAL PROPERTIES OF SUPRACRITICALLY ANNEALED AND QUENCHED MILD STEEL STRIP 67-10 M10-79768

TENSILE STRENGTH, HEATING EFFECTS
EFFECT OF HEAT TREATMENT AND PLATING ON THE BIAXIAL TENSILE STRENGTH OF TITANIUM ALLOYS VT14, VT15 AND VT16 67-04 M17-67535
PRECIPITATION HARDENING IN IRON-MOLYBDENUM ALLOY 67-04 M17-67550
THE EFFECT OF PROLONGED ANNEALING ON THE PROPERTIES OF LARGE FORGINGS 67-07 M10-72760
HIGH STRENGTH MAGNESIUM ALLOY 67-07 M10-74166
EFFECT OF STRUCTURE AND CHEMICAL COMPOSITION ON THE MECHANICAL PROPERTIES OF HEAT TREATED UNALLOYED STRIP STEELS 67-07 M17-73287
THE PROPERTIES OF STAINLESS STEEL 1H18N9T AFTER AGING IN THE POWER REACTOR TEMPERATURE RANGES. PT. 1. MECHANICAL PROPERTIES 67-07 M17-73884
NODULAR GRAPHITE STEEL. EFFECT OF HEAT TREATMENT ON MECHANICAL PROPERTIES 67-08 M17-74426
INFLUENCE OF THE AUSTENITIZING HEATING RATE ON THE PROPERTIES OF QUENCHED AND TEMPERED STEELS 67-09 M17-77306
THE NEW MAGNESIUM ALLOYS FOR AEROSPACE 67-10 M17-79179
STRUCTURAL CHANGES AND MECHANICAL PROPERTIES OF MOLYBDENUM AT ANNEALING 67-10 M17-79229
TOUGHNESS AND STRENGTH OF HARDENED TOOL STEELS 67-11 M17-80342
THE EFFECT OF ELEVATED-TEMPERATURE EXPOSURE ON THE MICROSTRUCTURE AND TENSILE STRENGTH OF AL3NI WHISKER-REINFORCED ALUMINUM 67-12 M17-82861

TENSILE STRENGTH, PRESSURE EFFECTS
EFFECT OF PRESSURE ON THE PROPERTIES OF CAST D16 ALUMINUM ALLOY 67-01 M17-58086

TENSILE STRENGTH, RADIATION EFFECTS
RADIATION EFFECTS IN URANIUM 67-04 M14-67322
RADIATION EFFECTS ON SHEAR STRENGTH OF SEVERAL ALLOYS AT LIQUID HYDROGEN ENVIRONMENT 67-09 M17-78109
RADIATION EFFECTS ON SHEAR STRENGTH OF SEVERAL ALLOYS AT LIQUID HYDROGEN ENVIRONMENT 67-10 M16-78492
SOME EFFECTS OF NEUTRON IRRADIATION ON MARAGING STEEL 67-12 M17-82768

TENSILE STRENGTH, STRESS EFFECTS
EFFECTS OF STRETCHING AND UPSETTING ON THE MECHANICAL PROPERTIES OF OPEN-DIE FORGINGS 67-02 M07-62098
WELD STRENGTH IMPROVED BY ROLL PLANISHING 67-03 M08-65170
EFFECT OF ALLOYING AND TEMPERING ON MECHANICAL PROPERTIES OF PATENTED COLD DRAWN WIRE 67-04 M17-66823

TENSILE STRENGTH, TEMPERATURE EFFECTS
HIGH-TEMPERATURE STRENGTH AND STRUCTURAL CHANGE OF TYPE 316 AUSTENITE STAINLESS STEEL CASTINGS 67-02 M17-59156
THE ELEVATED-TEMPERATURE STRENGTHS AND CORROSION-FATIGUE STRENGTHS OF NICKEL-COPPER ALLOY 67-02 M17-59723
CREEP AND TENSILE PROPERTIES OF HEAVILY DRAWN TUNGSTEN WIRE 67-04 M17-66926
TENSILE TESTS AND STRESS-STRAIN MEASUREMENTS IN VACUUM AT HIGH TEMPERATURES 67-06 M17-71513
MECHANICAL PROPERTIES OF HOT EXTRUDED OR HOT PRESSED DISPERSION STRENGTHENED IRONS CONTAINING AL2O3, MGO AND SIO2 PARTICLES 67-08 M17-74422
INDUSTRIAL PRODUCTION OF ROLLED SECTIONS OF 40 STEEL WITH THERMOMECHANICAL TREATMENT 67-09 M10-76551
CRYOGENIC PROPERTIES OF 18NI-9CO-5MO AND 18NI-7CO-5MO MARAGING STEEL SHEET 67-09 M17-77566
HIGH-TEMPERATURE MECHANICAL PROPERTIES OF TI-8 PER CENT AL-4 PER CENT CO ALLOY 67-09 M17-77988
A STATISTICAL ANALYSIS OF ALUMINUM WELDS TESTED AT CRYOGENIC TEMPERATURES 67-10 M17-78477
SOME MECHANICAL PROPERTIES OF BORON-TUNGSTEN BORIDE FILAMENTS 67-11 M17-80315

TENSILE STRENGTH, WELDING EFFECTS
WELDING AN EXPERIMENTAL VACUUM APPARATUS MADE OF AT3 TITANIUM ALLOY 67-03 M11-65061
DIFFUSION BONDING TECHNIQUES CHANGING AEROSPACE INDUSTRY 67-07 M11-73695
WELDING AN EXPERIMENTAL VACUUM APPARATUS IN AT3 TITANIUM ALLOY 67-07 M11-73981
THE INFLUENCE OF SHIELDING GAS COMPOSITION ON WELD METAL PROPERTIES 67-08 M17-75537

TENSILE STRESS
THE EFFECT OF STRESS ON STRAIN AGEING 67-01 M17-57480
EFFECT OF COPPER ON THE MECHANICAL PROPERTIES OF A HEAT-TREATED 0.3 PER CENT C STEEL 67-04 M17-66987
STRESS IN VACUUM DEPOSITED FILMS OF SILVER 67-05 M17-69291
MEASUREMENT OF BIAXIAL CREEP STRAINS USING THE MOIRE METHOD 67-06 M17-70867
CRACK PROPAGATION AT STRESSES BELOW THE FATIGUE LIMIT 67-06 M17-71084
COMPONENTS OF THE FLOW STRESS OF RION 67-07 M17-73924
EVOLUTION OF FOLDS DURING HOT TENSILE STRESSING OF LARGE AL CRYSTALS 67-08 M13-76218
SPRINGBACK BEHAVIOR OF LOW-CARBON STEEL SHEET AFTER STRETCH BENDING 67-08 M17-74518
EFFECT OF THERMAL CYCLING ON RESIDUAL STRESSES IN DIE STEEL 67-08 M17-75482
INFLUENCE OF REDUCTION OF CROSS SECTION UNDER TENSILE STRESS ON ANISOTROPY AND TEXTURE OF COLD ROLLED POLYCRYSTALLINE NICKEL 67-08 M17-76224

TENSILE STRESS, COOLING EFFECTS
STRESS AND STRAIN RATE DURING SOLIDIFICATION OF SPHERE CASTINGS 67-12 M06-83569

TENSILE TESTS
SEE TENSION TESTS

TENSILE YIELD STRENGTH
SEE YIELD STRENGTH

TENSIOMETERS
TENSILE TESTING MACHINE WITH PARTICULARLY HIGH SPRING CONSTANT 67-01 M17-58441
APPARATUS FOR TENSILE TESTS ON MICROFIBER SPECIMENS FROM 4 TO 330 K 67-08 M17-75650

TENSION
SEE ALSO SURFACE TENSION
CALCULATION OF THE COLD ROLLING TORQUE OF STRIP WITH TENSION 67-07 M07-73475

TENSION IMPACT TESTS
SEE IMPACT TESTS

TENSION ROLLING
TENSION LEVELING OF FERROUS AND NONFERROUS STRIP 67-12 M07-82928

TENSION TESTS
EFFECT OF HIGH HYDROSTATIC PRESSURES ON THE YIELD STRENGTH OF STEEL SPECIMENS DURING UNIDIRECTIONAL EXTENSION 67-01 M17-57139
TENSILE TESTING OF ALLOYS IN THE MELTING TEMPERATURE RANGE 67-01 M17-57465
HIGH-SPEED, HIGH-TEMPERATURE TENSION APPARATUS FOR THE STUDY OF AEROSPACE MATERIALS 67-01 M17-57609
EVALUATION OF THE EFFECTS OF SPECIMEN CONFIGURATION AND TESTING VARIABLES ON CRACK PROPAGATION PROPERTIES 67-01 M17-57629
LOW-TEMPERATURE FLOW AND FRACTURE BEHAVIOR OF

TANTALUM 67-01 M17-57630
TENSILE TESTING MACHINE WITH PARTICULARLY HIGH SPRING CONSTANT 67-01 M17-58441
A METHOD FOR INTERRUPTING A HIGH STRAIN RATE TENSION TEST BEFORE SPECIMEN FRACTURE 67-01 M17-58770
EFFECTIVE STRAIN RATES IN LOW-SPEED UNIAXIAL TENSIONAL TESTS 67-01 M17-58771
YIELD POINT OF MILD STEEL UNDER SHARPLY CONCENTRATED STRESS 67-02 M17-58809
STRENGTH OF ROTATING DISKS 67-02 M17-58812
A METHOD OF CONSTRUCTING AND ANALYZING TRUE TENSILE DIAGRAMS 67-02 M17-58837
ON THE CONNECTION BETWEEN TENSILE AND YIELD LIMITS OF STEEL DURING TENSION 67-02 M17-58839
A BRAZED TENSILE TEST-PIECE 67-02 M17-59798
SOME WORK WITH A MICROSTRAIN APPARATUS 67-02 M17-59913
THE ELASTIC BEHAVIOR OF GRAY CAST IRON. PT. 1. GENERAL AND EXPERIMENTAL PART 67-02 M17-60020
TEMPERATURE DEPENDENCE OF HIGH-TEMPERATURE VACUUM TENSILE-FATIGUE LIFE AND DEFORMATION IN COPPER 67-02 M17-60145
THE CREEP TESTING OF METALS 67-02 M17-61537
YIELD STRENGTH OF IRON QUENCHED FROM ALPHA REGION 67-02 M17-62092
INVESTIGATION OF THE MECHANICAL PROPERTIES OF POROUS IRON IN TENSION AND TORSION. PT. 2 67-02 M17-62115
MEASUREMENT OF RESIDUAL STRESSES IN A HEAVY WELDMENT 67-02 M19-61583
ELASTIC STRAINS IN COPPER DEFORMED BY ROLLING 67-03 M13-65123
DETERMINING THE THERMAL PLASTICITY OF STEEL DURING CYCLIC TENSILE TESTING FOLLOWED BY STRESS RELAXATION 67-03 M17-65072
THE EFFECT OF HYDROGEN CHARGING ON THE PETCH RELATIONSHIP FOR ZONE-REFINED IRON 67-03 M17-65093
STUDY OF STEEL THERMOMECHANICALLY STRENGTHENED DURING TENSION USING HIGH SPEED FILM 67-03 M17-65102
THE STRESS AND STRAIN DISTRIBUTION AT THE NECK OF A TENSILE SPECIMEN 67-03 M17-65197
DEFORMATION OF BERYLLIUM UNDER HYDROSTATIC PRESSURE TO 15 KILOBARS 67-03 M17-65280
THE EFFECT OF TEST BAR VARIABLES ON THE TENSILE PROPERTIES OF MAGNESIUM CASTING ALLOYS 67-03 M17-65318
MEASUREMENT OF STRAIN HARDENING AND PLASTIC STRAIN RATIO USING THE CIRCLE-ARC SPECIMEN 67-04 M17-66141
THE EFFECT OF FATIGUE ON THE DUCTILE-BRITTLE TRANSITION TEMPERATURE OF TWO MILD STEELS 67-04 M17-66172
EXPERIMENTAL INVESTIGATION OF STRESS-RUPTURE STRENGTH OF CHROMIUM-NICKEL-TITANIUM STEEL IN CONDITIONS OF BIAXIAL EXTENSION 67-04 M17-66821
MECHANICAL PROPERTIES OF JOINTS IN SMALL-DIAMETER THIN-WALLED TUBES IN ROLLING WELDING 67-04 M17-67008
HIGH-SPEED DEEP DRAWABILITY OF THE PURE ALUMINUM SINGLE CRYSTALS 67-04 M17-67584
ON THE HIGH-TEMPERATURE STRENGTH OF 0.35 PER CENT CARBON STEEL 67-04 M17-67595
ANALYSIS OF TEMPERATURE AND RATE RELATIONSHIPS OF YIELD STRENGTH AND FLOW STRESS OF ARMCO IRON IN THE LOW-TEMPERATURE RANGE 67-04 M17-67924
ELECTRICAL RESISTANCE AND DEFECTS IN CU-AL ALLOYS AT LOW TEMPERATURES 67-05 M15-69648
THE HIGH TEMPERATURE FLOW STRESS OF SINGLE CRYSTALS OF COPPER, SILVER AND GOLD. PT. 1 67-05 M17-68292
EFFECT OF PRE-YIELD RELAXATION ON THE YIELDING OF IRON 67-05 M17-68434
EXPERIMENTAL TECHNIQUE FOR IMPULSE LOADING OF STRUCTURES 67-05 M17-68651
TECHNIQUES FOR ELEVATED-TEMPERATURE TENSILE TESTING OF THIN SUPER ALLOYS 67-05 M17-68670
DESCRIPTION OF A SIMPLE EXTENSOMETER DETERMINING THE ELASTIC LIMIT AT HIGH TEMPERATURE. EXAMPLES OF APPLICATIONS 67-05 M17-68784
STUDY OF THE BEHAVIOR OF WELDED JOINTS INCORPORATING DESIGN DEFECTS UNDER UNIAXIAL TENSION LOADING 67-05 M17-68785
STUDY OF THE MECHANICAL PROPERTIES OF SILICON-CONTAINING FERRITE. THE INFLUENCE OF CARBON 67-05 M17-69112
A METHOD FOR TENSILE TESTING OF FOIL IN A WIDE TEMPERATURE RANGE 67-05 M17-69617
ON A METHOD OF TENSILE TESTING OF TUNGSTEN AND MOLYBDENUM SINGLE CRYSTALS 67-05 M17-69634
LOW-TEMPERATURE AGING OF DISEQUILIBRIUM D-1 ALUMINUM ALLOY 67-05 M17-69655
CRITICAL DEFORMATION OF METALS AT RUPTURE UNDER HYDROSTATIC PRESSURE 67-05 M17-69663
THEORY OF THE TENSILE TEST 67-06 M17-70422
TENSION TESTING ALUMINA WHISKERS 67-06 M17-70686
METHOD OF TESTING ALLOYS IN TENSION IN THE SOLIDUS-LIQUIDUS RANGE 67-06 M17-70753
THE CONDITION FOR THE APPEARANCE OF NECKING UNDER TENSILE TESTS 67-06 M17-71543
THE RECORDING OF A STRESS-STRAIN-CURVE EMPLOYING AN ELECTRONIC COMPUTER 67-06 M17-71865
CHARACTERISTICS OF PLASTIC DEFORMATION OF AL SINGLE CRYSTALS IN THE 1.3 TO 4.2 K. TEMPERATURE RANGE 67-06 M17-72357
STRESS-RUPTURE AND TENSILE TEST TECHNIQUES FOR SINGLE BORON FILAMENTS AT ROOM AND ELEVATED TEMPERATURES 67-07 M09-73367
SENSITIVITY IMPROVEMENT IN STRAIN GAGE MEASUREMENTS 67-07 M17-72767
LOW-TEMPERATURE TENSION TESTS OF COPPER IN AN ULTRASONIC FIELD 67-07 M17-72786
INVESTIGATION OF THERMOMECHANICALLY HARDENED STEEL WORKING IN TENSION BY MEANS OF HIGH-SPEED FILMING 67-07 M17-72790
MEASUREMENT OF THE MECHANICAL PROPERTIES OF SOLIDS AT HIGH PRESSURE 67-07 M17-72808
DETERMINATION OF THE THERMAL PLASTICITY OF STEEL BY A TEST WITH CYCLIC TENSION FOLLOWED BY STRESS RELAXATION 67-07 M17-72972
TRIAXIAL TESTS OF METALLIC MATERIALS AT ELEVATED TEMPERATURES 67-07 M17-72979
EXPERIMENTAL METHODS OF MATERIALS RESEARCH. V. 1. ADVANCES IN MATERIALS RESEARCH 67-08 M01-74690
MECHANICAL PROPERTIES OF SEAM WELDED JOINTS IN THIN WALLED SLENDER TUBES 67-08 M17-74767
APPARATUS FOR TENSILE TESTS ON MICROFIBER SPECIMENS FROM 4 TO 330 K 67-08 M17-75650
A NEW METHOD AND TECHNIQUES FOR TENSION TESTING WHISKERS 67-08 M17-76143
FATIGUE TEST PRACTICE IN CONNECTION WITH ELEMENTS. THE USEFULNESS OF TORSIONAL STRESS 67-08 M17-76232
THE PRESS FORMABILITY OF ALUMINIUM AND ITS ALLOYS 67-09 M08-76680
METHODS OF TESTING THE ADHESION OF METAL COATINGS TO METALS 67-09 M17-76665
THE APPLICABILITY OF THE DEFORMATION ENERGY HYPOTHESIS TO THE STUDY OF LARGE DEFORMATIONS 67-09 M17-76705
THE APPLICATION OF THE DIAMETRAL --SPLITTING-- TEST TO DETERMINE THE TENSILE STRENGTH, YOUNGS MODULUS AND POISSONS RATIO OF CERAMICS AND CERMETS 67-09 M17-77024
CYCLING TESTS ON GRADE 35 CAST IRON 67-09 M17-77556
A NEW METHOD OF DETERMINING EFFECTIVE FLOW STRESS IN PURE IRON AND SOME IRON ALLOYS 67-09 M17-77939
TESTING SHEET MATERIALS WITH VARIOUS RESERVES OF ELASTIC ENERGY FOR BIAXIAL TENSION 67-09 M17-78159
RUPTURE BEHAVIOR OF TENSILE TEST BARS OF A TUBE STEEL WITH A MINIMUM YIELD POINT OF 30 KG/MM2 IN SOLUTIONS AND GASES CONTAINING HYDROGEN SULPHIDE 67-09 M18-77384
RUPTURE TESTS CARRIED OUT ON STEELS WITH HIGH TENSILE STRENGTH IN GASES AND SOLUTIONS CONTAINING HYDROGEN SULPHIDE 67-09 M18-77385
INFLUENCE OF AGE HARDENING PHENOMENA ON THE FLOW CURVE 67-10 M10-78709
THE STRESS-STRAIN DIAGRAM AT THE YIELD POINT OF MILD STEEL 67-10 M17-79062
A TENSION TEST METHOD FOR HIGH MODULUS, HIGH-STRENGTH FILAMENTS 67-10 M17-79175
ULTIMATE PLASTICITY OF METALS DURING TENSION UNDER HIGH PRESSURE 67-10 M17-79223
INVESTIGATION OF THE INFLUENCE OF NONCORROSIVE FLUIDS ON THE MECHANICAL PROPERTIES OF METALS IN STATIC AND DYNAMIC LOADING 67-10 M17-79484
THE DETERMINATION OF THE ELEVATED-TEMPERATURE PROPERTIES OF STEEL 67-11 M17-80257

TENSION TESTS
THE EFFECT OF RATE OF STRAINING ON THE 0.2 PER CENT PROOF STRESS AND LOWER YIELD STRESS OF STEEL 67-11 M17-80259
A PRELIMINARY SURVEY OF THE ELEVATED-TEMPERATURE TENSILE PROPERTIES OF CAST CARBON STEELS 67-11 M17-80269
SOME CREEP AND RUPTURE PROPERTIES OF A FORGED LOW-ALLOY MN-CR-MO-V STEEL 67-11 M17-80272
HIGH-TEMPERATURE PROPERTIES OF STEELS 67-11 M17-80288
FURTHER DEVELOPMENT OF AN EXPONENTIAL RELATION FOR THE TENSILE WORK HARDENING OF STRUCTURAL ALLOYS 67-11 M17-80382
RELAXATION TESTS OF HIGH-TEMPERATURE STRUCTURAL STEELS AND CAST STEEL 67-11 M17-80511
A RAPID METHOD OF TESTING THE HOT TENSILE STRENGTH OF REFRACTORY ALLOYS 67-11 M17-81056
EFFECT OF PURITY AND TEMPERATURE ON DYNAMIC MICROSTRAIN OF NIOBIUM --COLUMBIUM-- 67-11 M17-81342
THE RUPTURE BEHAVIOUR OF METALS AT HIGH STRAIN RATES 67-11 M17-81527
EFFECT OF GRAIN SIZE, TEMPERATURE AND STRAIN RATE ON THE TENSILE AND PLASTIC CHARACTERISTICS OF LOW-CARBON STEELS 67-11 M17-81656
HIGH-TEMPERATURE METALLOGRAPHY 67-12 M13-83522
YIELD STRESS BEHAVIOR OF CARBON AND LOW-ALLOY STRUCTURAL STEELS IN RELATION TO GRAIN SIZE, TEMPERATURE, PRIOR DEFORMATION AND AGING 67-12 M17-81929
CORRELATION OF FATIGUE LIMIT WITH TRUE STRESS-- TRUE STRAIN BEHAVIOR 67-12 M17-82145
SIMILARITY CRITERIA FOR THE ACTION OF MERCURY ON BRASS 67-12 M17-82181
THE STATISTICAL FACTOR OF THE SIZE EFFECT IN FATIGUE TESTING OF STEEL 67-12 M17-82182
THE INFLUENCE OF DEFORMATION VELOCITY ON THE TENSILE RUPTURE DUCTILITY OF STRAIN-AGED STEEL 67-12 M17-82587
A COMPARISON--PLANE STRAIN FRACTURE TOUGHNESS AND THE ISOTHERMAL FLOW PROPERTIES OF A STRUCTURAL STEEL 67-12 M17-83130
CRACK SENSITIVITY OF HIGH-STRENGTH STEELS WHEN TESTED IN AIR AND IN DISTILLED WATER 67-12 M17-83525
EFFECT OF DEFORMATION RATES ON STRAIN AGING TEMPERATURE AND DISLOCATION DENSITY IN CARBON STEEL 67-12 M17-83526
TECHNIQUES FOR TESTING STRUCTURAL MATERIALS IN RELATION TO THEIR APPLICATION IN NUCLEAR REACTORS 67-12 M20-82813
FUNDAMENTAL PROPERTIES OF HIGH STRENGTH STEELS 67-12 M20-82922
TENSION TESTS, TEMPERATURE EFFECTS
TEMPERATURE DEPENDENCE OF HIGH-TEMPERATURE VACUUM TENSILE-FATIGUE LIFE AND DEFORMATION IN CU-AL ALLOY WITH 9 PER CENT AL 67-09 M17-77576
TENSION TESTS, ULTRASONICS
USE OF ULTRASOUND IN TENSILE TESTING OF METALS 67-02 M17-60666
USING ULTRASOUND TO TEST METALS UNDER TENSION 67-07 M17-73102
TERBIUM, BINARY SYSTEMS
A BASIS FOR SOME OF THE VARIETY OF MAGNETIC PROPERTIES OF THE HEAVY RARE-EARTH METALS AND ALLOYS 67-07 M15-73581
TERBIUM, INTERMETALLICS
NOTE ON THE STRUCTURES OF TBFE2 AND TBFE3 67-10 M13-78562
TERBIUM, MAGNETIC PROPERTIES
MAGNETIC PROPERTIES OF SOME RARE-EARTH ALLOYS AT HIGH PRESSURES 67-05 M15-69521
MAGNETIC ANISOTROPY OF TERBIUM AND DYSPROSIUM 67-07 M15-73584
MAGNETIC RESONANCE IN SINGLE-CRYSTAL TERBIUM METAL AT 100 GHZ 67-08 M15-75926
PRESSURE DEPENDENCE OF THE MAGNETIC TRANSITION TEMPERATURES IN TERBIUM FROM RESISTANCE MEASUREMENTS 67-10 M15-78736
MAGNETIC FORM FACTOR OF TERBIUM 67-12 M15-81900
TERBIUM, PHASE TRANSFORMATIONS
CRYSTAL STRUCTURE OF TERBIUM AT 120 TO 300 K 67-05 M14-69025
TERBIUM, THERMAL PROPERTIES
SPECIFIC HEAT OF GADOLINIUM, TERBIUM, DYSPROSIUM, HOLMIUM, AND THULIUM METALS BETWEEN 3 AND 25 K 67-01 M15-58750
TERBIUM COMPOUNDS, MAGNETIC PROPERTIES
MAGNETIC STRUCTURES OF TBC2 AND HOC2 67-01 M16-58639
TERNARY SYSTEMS
X-RAY STRUCTURAL AND METALLOGRAPHIC INVESTIGATIONS OF NB-CO-C ALLOYS 67-02 M13-60741
X-RAY INVESTIGATIONS IN A FEW T-T5-AL SYSTEMS 67-02 M13-61888
EFFECT OF COBALT ON THE ACTIVITY OF SULFUR IN LIQUID IRON 67-06 M15-72071
TERNARY SYSTEMS, ATOMIC PROPERTIES
STUDY OF ATOMIC INTERACTION IN ALLOYS OF THE COLUMBIUM-TUNGSTEN-MOLYBDENUM SYSTEM 67-10 M16-79730
TERNARY SYSTEMS, BAND THEORY
INVERSION OF CONDUCTION AND VALENCE BANDS IN PB1-XSNXSE ALLOYS 67-09 M16-77170
TERNARY SYSTEMS, CORROSION
ELECTROLYTIC A-C CORROSION OF POLYELECTRODE SYSTEMS 67-08 M18-74623
TERNARY SYSTEMS, CRYSTAL GROWTH
GROWTH OF COMPLEX SINGLE-CRYSTAL HEXAGONAL FERRITES 67-08 M14-75998
TERNARY SYSTEMS, CRYSTAL LATTICES
THE URANIUM-IRON-SILICON SYSTEM. THE NEW PHASE U2FESI3 67-04 M13-67108
THE CRYSTALLINE STRUCTURE OF V2C 67-04 M16-66912
THE CO REGION OF THE TERNARY SYSTEM CO-MO-B 67-06 M13-70220
TERNARY COMPOUNDS WITH A SUPERLATTICE OF THMN12 TYPE IN THE YTTRIUM-TRANSITION METAL-ALUMINUM SYSTEMS 67-07 M13-73480
INVESTIGATIONS ON THE SOLID SOLUTION SERIES-- Y6MN23-Y6FE23 AND YMN2-YFE2 67-09 M13-77025
COBALT, NICKEL AND COPPER PHASES IN TERNARY MNCU2AL SOLUTION 67-09 M13-77572
SOME NEW E-PHASES 67-09 M13-78111
LATTICE SPACINGS AND EFFECTIVE ATOMIC DIAMETERS IN THE TERNARY SYSTEM TH-CE-ZR 67-10 M16-78669
CHEMICAL BOND AND STRUCTURE OF THE TERNARY COMPOUND INASTE 67-11 M01-80234
LATTICE SPACINGS AND EFFECTIVE ATOMIC DIAMETERS IN THE TERNARY SYSTEMS FORMED BY TH AND CE WITH Y, LA, GD AND ER, AND BY TH, PR AND Y 67-11 M13-80308
AN X-RAY STUDY ON THE STRUCTURE OF THE TERNARY AU-CU-ZN MARTENSITE 67-11 M13-80810
TERNARY SYSTEMS, DEPOSITION
ELECTRODEPOSITION OF THIN MAGNETIC FILMS IN THE NI-FE-CU SYSTEM 67-07 M12-73593
TERNARY SYSTEMS, DIFFUSION
DIFFUSION CALCULATIONS IN THREE-COMPONENT SOLID SOLUTIONS 67-01 M14-58468
DIFFUSION IN A TERNARY SUBSTITUTIONAL SYSTEM-- APPLICATION TO THE COBALT-NICKEL-CHROMIUM SYSTEM 67-04 M14-67268
STUDY OF DIFFUSION PHENOMENA IN THE TERNARY SYSTEM FE-NI-CO 67-11 M14-80147
TERNARY DIFFUSION IN COPPER-SILVER-GOLD ALLOYS 67-12 M14-82713
PREDICTING THE COURSE OF HOMOGENIZATION IN MULTICOMPONENT ALLOYS 67-12 M14-82849
TERNARY SYSTEMS, ELECTRICAL PROPERTIES
THERMODYNAMIC PROPERTIES OF INDIUM-TIN-ANTIMONY LIQUID ALLOYS 67-10 M15-78747
ELECTRICAL RESISTANCE AND THERMAL EXPANSION OF TI-NB-CR ALLOYS 67-12 M15-82422
TERNARY SYSTEMS, INTERMETALLICS
PREPARATION OF HOMOGENEOUS HGTE-ZNTE ALLOYS 67-02 M14-61770
TERNARY SYSTEMS, MAGNETIC PROPERTIES
PERMANENT MAGNET CAPABLE OF COLD WORKING 67-01 M20-57518
NUCLEAR MAGNETIC RESONANCE AND SPECIFIC HEAT MEASUREMENTS OF TRANSITION METALS AND ALLOYS.. TI-V-FE AND ZR-NB-MO SYSTEMS 67-05 M16-69758
OPTICAL ABSORPTION OF ALUMINIUM AND SOME ALUMINIUM-MAGNESIUM ALLOYS 67-06 M16-70572
MAGNETIC PROPERTIES OF FE65 --NI1-XMNX--35 TERNARY ALLOYS 67-07 M15-72407
NONMAGNETOSTRICTIVE COMPOSITIONS OF FE-NI-CO FILMS 67-11 M15-81097
TERNARY SYSTEMS, MECHANICAL PROPERTIES
A STUDY ON THE TERNARY ALLOYS OF IRON AND BORON 67-01 M14-58321
SUPERPLASTICITY IN THE NI-FE-CR SYSTEM 67-06 M17-71073

CEMENTED CARBIDES WITH HIGH-MELTING BINDERS. PT. 2. TERNARY EQUILIBRIUM SYSTEMS 67-10 M14-79979
STUDIES ON PROPERTIES OF SOME TERNARY COPPER ALLOYS OF THE CU-MN-ZN AND CU-MN-NI SYSTEM 67-10 M17-78607
DUCTILE HIGH-TEMPERATURE NIOBIUM-NICKEL-ALUMINUM SYSTEM ALLOYS 67-10 M17-78967

TERNARY SYSTEMS, METALLOGRAPHY
THE ISOTHERMIC SHIFT AT ORDINARY TEMPERATURE OF THE URANIUM-CARBON-SILICON DIAGRAM 67-02 M13-61023

TERNARY SYSTEMS, MICROSTRUCTURE
THE TAU PHASE IN THE CO-TI-B TERNARY SYSTEM 67-05 M13-68583
THE WETTING OF PLATINUM AND ITS ALLOYS BY GLASS. PT. 3. MICROSTRUCTURE AND MECHANICAL PROPERTIES OF GOLD-RHODIUM-PLATINUM ALLOYS 67-05 M14-69419
TERNARY SYSTEMS NIOBIUM-RHENIUM-CARBON AND TANTALUM-RHENIUM-CARBON 67-08 M13-74309
TERNARY SYSTEMS OF TI-ZR-C AND TI-HF-C 67-08 M13-75435
THE MICROSTRUCTURES OF TERNARY EUTECTIC ALLOYS IN THE SYSTEMS CD-SN---PB, IN, TL--, AL-CU---MG, ZN, AG--, AND ZN-SN-PB 67-09 M13-76678

TERNARY SYSTEMS, PHASE DIAGRAMS
THE COPPER-TIN-ARSENIC CONSTITUTION DIAGRAM. PT. 1. SOLIDIFICATION REACTIONS 67-01 M13-57419
THE COPPER-TIN-ARSENIC CONSTITUTION DIAGRAM. PT. 2. REACTIONS IN THE SOLID STATE 67-01 M13-57420
PHASE EQUILIBRIA IN THE TI-V-C SYSTEM AT 1450, 1600 AND 1800 C 67-01 M13-57600
SHAPE OF SOLUBILITY ISOTHERMS IN TERNARY SYSTEMS 67-01 M13-58042
THE COPPER CORNER OF THE COPPER-NICKEL-BORON SYSTEM 67-01 M13-58046
ZIRCONIUM-VANADIUM-BORON SYSTEM 67-01 M13-58059
PROBLEM OF THE STRUCTURE OF ALLOYS IN THE TI-FE AND TI-CR-FE SYSTEMS 67-01 M13-58188
THE STRUCTURE OF SOME ALLOYS IN THE TERNARY TI-MO-C SYSTEM 67-01 M14-57599
THE GA-AS-SI TERNARY PHASE SYSTEM 67-02 M13-59453
PHASE EQUILIBRIUM DIAGRAM OF THE SYSTEM OF THE INTERMETALLIC COMPOUNDS NBCR2-ZRCR2 67-02 M13-59594
INVESTIGATION OF THE SYSTEM TICR2-TACR2-NBCR2 67-02 M13-59610
PHASE DIAGRAM OF THE HFC-MO SYSTEM 67-02 M13-59666
INVESTIGATION OF THE ALLOYS IN THE TI-AL-V SYSTEM 67-02 M13-59840
THE TERNARY CR-CO-SI SYSTEM 67-02 M13-59888
CONSTITUTION DIAGRAM OF THE ZR-FE-B SYSTEM 67-02 M13-59889
INTERACTIONS BETWEEN THE COMPOUND NIAL AND NIOBIUM 67-02 M13-59891
INVESTIGATION OF THE TICR2-ZRCR2 SYSTEM 67-02 M13-59897
PHASE EQUILIBRIUM DIAGRAM OF THE TI-NB-CR SYSTEM 67-02 M13-60743
PHASE DIAGRAM OF THE TITANIUM-OXYGEN-HYDROGEN SYSTEM 67-02 M13-61553
PHASE EQUILIBRIA IN THE TERNARY SYSTEMS ZR-CO-C AND NB-FE-C 67-02 M13-61635
STRUCTURE OF SOME ALLOYS OF THE TITANIUM-VANADIUM-CARBON SYSTEM 67-02 M13-62178
TERNARY CHEMICAL COMPOUNDS IN THE NI-TI-NB SYSTEM 67-02 M13-62183
PHASE COMPOSITION AND SOME PROPERTIES OF ALLOYS OF THE MOLYBDENUM-NICKEL-BORON SYSTEM 67-02 M13-62186
TI-V-C TERNARY SYSTEM 67-02 M13-62240
ISOTHERMAL SECTION OF THE FE-V-C TERNARY SYSTEM AT 500 C 67-02 M13-62275
THE TERNARY CONDENSED PHASE DIAGRAM OF THE GA-AS-TE SYSTEM 67-03 M14-65428
CHROMIUM BORON CARBIDE 67-04 M13-67865
THE ZRC-MO PHASE DIAGRAM 67-04 M14-67236
SOLID-PHASE EQUILIBRIA OF WUSTITE-IRON NICKEL ALLOY 67-05 M13-68227
THE STRUCTURE OF ALLOYS IN THE ZR-C-TA SYSTEM 67-05 M13-69492
PHASE DIAGRAM OF THE NB-TI-ZR SYSTEM AND SUPERCONDUCTING PROPERTIES OF THE ALLOYS OF THIS SYSTEM 67-05 M13-69640
INVESTIGATION OF THE CE-SI-GE SYSTEM 67-05 M14-68646
THE CONSTITUTION OF ALUMINIUM-CADMIUM-TIN ALLOYS 67-05 M14-68720
STUDY OF ISOTHERMAL TRANSFORMATIONS IN SEMI-FERRITIC STAINLESS STEELS WITH 17 PER CENT CHROMIUM 67-05 M14-69114
INTERACTION BETWEEN THE NBRU AND TARU COMPOUNDS 67-06 M13-70185
PHASE DIAGRAM OF ALLOYS OF THE COPPER-GERMANIUM-TIN TERNARY SYSTEM 67-06 M13-70375
STUDY OF A PBSE-PBI2 SECTION OF THE PB-SE-I TERNARY SYSTEM 67-06 M13-70744
ISOTHERMAL SECTION OF THE MOLYBDENUM-IRON-BORON SYSTEM 67-06 M13-70773
TRIANGULATION OF THE SYSTEM C-SI-BE 67-06 M13-70774
X-RAY DIFFRACTION STUDY OF THE SYSTEM NIOBIUM-TUNGSTEN-BORON 67-07 M13-73278
STRUCTURE OF SOME ALLOYS OF THE SYSTEM TITANIUM-VANADIUM-CARBON 67-08 M13-75954
TERNARY INTERMETALLIC COMPOUNDS IN THE SYSTEM NI-TI-NB 67-08 M13-75959
PHASE COMPOSITION AND SOME PROPERTIES OF ALLOYS OF THE SYSTEM MOLYBDENUM-NICKEL-BORON 67-08 M13-75962
THE SYSTEM KA1SIO4-MG2SIO4-KA1SI2O6 67-08 M13-76091
CONDENSED PHASE RELATIONS IN THE SYSTEMS ZRO2-WO2-WO3 AND HFO2-WO2-WO3 67-08 M13-76093
METAL-REFRACTORY REACTION STUDIES IN THE IRON-CHROMIUM-SILICA SYSTEM 67-08 M14-75035
STUDY OF THE A1SB-GASB-INSB SYSTEM 67-08 M14-75080
DETERMINATION OF THE COSOLUBILITY LIMIT OF NEODYMIUM AND NICKEL IN SOLID MAGNESIUM 67-09 M13-76842
INTERACTION BETWEEN THE METALLIDE TICR2 AND VANADIUM 67-09 M13-76942
INTERACTION BETWEEN THE METALLIDE TICR2 AND MOLYBDENUM 67-09 M13-76943
THE METASTABLE EQUILIBRIUM DIAGRAM OF THE FE-C-SI SYSTEM 67-09 M13-76944
PHASE DIAGRAMS OF PLUTONIUM WITH THE METALS OF GROUPS IIA, IVA, VIIIA AND IB 67-09 M14-76326
APPLICATION OF CHEMICAL ACTIVITY IN METALLURGY 67-11 M14-80803

TERNARY SYSTEMS, PHASE TRANSFORMATIONS
NEW PHASES IN THE ZINC-VANADIUM-OXYGEN SYSTEM 67-02 M14-62195
SOME CROSS-SUBSTITUTIONAL ALLOYS OF CDTE 67-02 M16-61765
X-RAY INVESTIGATIONS IN THE V-AS-C SYSTEM 67-04 M14-67055
STUDY OF ORDERING IN TERNARY SYSTEM ALLOYS 67-06 M14-70285
TITANIUM-CHROMIUM-VANADIUM SYSTEM 67-06 M14-71079
THERMODYNAMIC PROPERTIES 67-07 M15-73663
FUSIBILITY DIAGRAM OF THE TI-ZR-CR SYSTEM 67-08 M13-75895
SOLID SOLUTIONS IN THE ZR-NB-HF SYSTEM 67-08 M13-75896
THE CRYSTAL STRUCTURE OF THE LAVES PHASE IN MG-ZN-AG-SYSTEM. PT. 1 67-12 M13-81768
ZIRCONIUM-TANTALUM-CHROMIUM-SYSTEM 67-12 M13-82048
INFLUENCE OF NIOBIUM ON THE SOLID STATE TRANSFORMATIONS IN VANADIUM-TANTALUM ALLOYS 67-12 M13-82424
THERMODYNAMIC INTERACTIONS AND LIQUIDUS PHASE BOUNDARIES IN THE LEAD CORNER OF THE PB-ZN-AG AND PB-ZN-AU SYSTEMS 67-12 M15-82754

TERNARY SYSTEMS, PHASES /STATE OF MATTER/
TERNARY COMPOUNDS IN THE BERYLLIUM-BORON-CARBON SYSTEM 67-01 M13-58076
INVESTIGATION OF PHASE EQUILIBRIA IN ALUMINUM-RICH ALLOYS OF THE GE-AL-SB SYSTEM 67-01 M14-57653
PHASE EQUILIBRIA IN THE SYSTEM ZR-W-C 67-02 M13-60577
THEORETICAL STUDY OF TYPICAL CHANGES OF THREE-PHASE REACTIONS IN TERNARY SYSTEMS 67-02 M13-60750
PHASE EQUILIBRIA IN THE SYSTEM MOLYBDENUM-CHROMIUM-CARBON 67-02 M13-61790
EFFECT OF VANADIUM AND MOLYBDENUM ON THE PROPERTIES AND PHASE CONVERSIONS OF THE METALLIDE TICR2 67-02 M13-62181
THE TERNARY SYSTEM INDIUM TELLURIDE-INDIUM ANTIMONIDE-ANTIMONY 67-02 M14-61594

REACTION OF CHROMIUM, MOLYBDENUM, AND TUNGSTEN BORIDES WITH CARBON 67-02 M14-61634
STUDY OF THE PHASE DIAGRAM OF THE W-MO-TI TERNARY SYSTEM 67-03 M13-65792
X-RAY DIFFRACTION ANALYSIS OF THE NB-NI-AL SYSTEM 67-03 M13-65793
PHASE EQUILIBRIUM IN THE HF-RE-C TERNARY SYSTEM 67-03 M13-65794
SOLUBILITY OF NB IN NI-CR SOLID SOLUTION 67-03 M13-65795
THE TERNARY SYSTEM PLUTONIUM-CERIUM-COBALT 67-03 M14-65087
PHASE THEORY. PT. 3 67-03 M14-65484
EQUILIBRIUM OF METAL AND OXIDE SOLIDS IN THE FE-NI-O SYSTEM 67-04 M13-66968
STRUCTURE OF ALLOYS IN THE ZR-C-NB SYSTEM 67-04 M13-67097
THE RHENIUM-CHROMIUM-CARBON SYSTEM 67-04 M13-67341
THE STRUCTURE OF THE ZRCR2-TACR2 SYSTEM 67-04 M14-66165
HIGH TEMPERATURE PHASE-EQUILIBRIA IN THE TH-U-C SYSTEM IN THE PRESENCE OF FREE CARBON 67-04 M14-66240
CONTRIBUTION TO THE CR-C-N SYSTEM 67-04 M14-66915
THE URANIUM-CARBON-OXYGEN TERNARY DIAGRAM 67-04 M14-66916
STUDY OF THE EQUILIBRIUM OF FOUR SOLID PHASES IN THE TERNARY SYSTEM U-C-SI 67-04 M14-67454
THE TERNARY SYSTEM RE-FE-B 67-04 M16-66909
NEW G PHASES 67-05 M13-68485
HIGH-TEMPERATURE CONDENSED-PHASE EQUILIBRIA IN THE SYSTEM TI-W-O 67-05 M14-68216
RESEARCH ON THE URANIUM-OXYGEN-CARBON SYSTEM 67-05 M14-68765
CRSI2-MOSI2 DIAGRAM 67-06 M13-70170
PHASE EQUILIBRIA IN CR-CO-B, MN-FE-B AND MN-CO-B SYSTEMS 67-06 M13-70215
INVESTIGATIONS OF THE SYSTEMS --MO, W-----FE, CO, NI---B 67-06 M13-70219
ON THE TERNARY PHASES UCOAL, UIRAL, AND UNIAL OF THE C22 --FE2P-- TYPE 67-06 M13-71623
W-CR-C TERNARY SYSTEM 67-06 M14-69993
PLANES AND NONVARIANT EQUILIBRIA IN THE SYSTEM COPPER-CADMIUM-ZINC 67-06 M14-71660
PHASE-RELATIONS IN COPPER-CADMIUM-ZINC-ALLOYS 67-06 M14-71859
CONSTITUTIONAL SUPERCOOLING IN TIN-BASE TERNARY ALLOYS 67-07 M13-72818
INTERMEDIATE PHASES IN ALLOYS OF TITANIUM WITH IRIDIUM, RHODIUM, AND OSMIUM 67-07 M13-73277
CRYSTALLINE STRUCTURES OF COMPOUNDS ZR2NI21B6 AND ZR2CO21B6 67-07 M13-73481
EXTENT AND LATTICE PARAMETERS OF THE LAVES PHASE FIELD IN THE FE-NB-SI SYSTEM 67-07 M13-74174
NUMERICAL DETERMINATION OF PHASE COMPOSITION IN MULTI-ELEMENT SYSTEMS, FOR EXAMPLE U-C-CR SYSTEM 67-07 M13-74236
PHASE EQUILIBRIUM IN THE SYSTEM PBO-TIO2-ZRO2 67-07 M14-72825
TERNARY CONDENSED PHASE SYSTEMS OF GALLIUM AND ARSENIC WITH GROUP IB ELEMENTS 67-07 M14-73460
THE TITANIUM-RICH CORNER OF THE TERNARY TI-AL-CO SYSTEM 67-08 M13-75139
THE W-V-SI SYSTEM 67-08 M13-75436
EFFECT OF VANADIUM AND MOLYBDENUM ON THE PROPERTIES AND PHASE TRANSFORMATIONS OF THE INTERMETALLIC COMPOUND TICR2 67-08 M13-75957
PHASE RELATIONS IN THE URANIUM MONOCARBIDE REGION OF THE SYSTEM URANIUM-CARBON-OXYGEN AT 1700C 67-08 M13-76079
TERNARY AND HIGHER-ORDER ALLOYS OF SILVER 67-08 M14-75626
THE SYSTEM TICR2-TACR2-NBCR2 67-09 M13-76928
RESEARCH INTO CERTAIN PROPERTIES OF W2B-WC SYSTEM ALLOYS 67-09 M13-76955
THE MOLYBDENUM-IRON-SILICON SYSTEM 67-09 M13-77758
PHASE EQUILIBRIA IN THE TERNARY SYSTEM PLUTONIUM-CERIUM-IRON 67-09 M14-76324
CONSTITUTIONAL STUDIES ON THE TERNARY SYSTEM PLUTONIUM-MOLYBDENUM-CARBON, PLUTONIUM-SILICON-CARBON AND PLUTONIUM-THORIUM-CARBON 67-09 M14-76345
A STUDY OF PLUTONIUM OXIDES AND THEIR SOLUBILITY IN URANIUM DIOXIDE 67-09 M14-76346
THERMODYNAMIC AND PHASE STUDIES FOR PLUTONIUM AND URANIUM-PLUTONIUM OXIDES WITH APPLICATION TO COMPATIBILITY CALCULATIONS 67-09 M14-76349
RESEARCH INTO ZIRCONIUM-NICKEL-ALUMINIUM SYSTEM ALLOYS WITH HIGH ALUMINIUM CONTENT 67-09 M14-76937
THE SYSTEM GE-SE-TE AND THE PREPARATION AND PROPERTIES OF THE NEW NON-STOICHIOMETRIC COMPOUND GESE0.75TE0.25 67-09 M14-77015
EACH PHASE COMPOSITION OF TIC-NI CERMET 67-09 M14-77246
EQUIATOMIC TERNARY COMPOUNDS OF URANIUM AND ALUMINIUM WITH GROUP 8 TRANSITION ELEMENTS 67-09 M14-77466
PHASE RELATIONS IN THE SYSTEM CAO-AL2O3-IRON OXIDE 67-10 M05-79601
A CLARIFICATION OF THE PHASES OCCURRING IN ALUMINIUM-RICH ALUMINIUM-IRON-SILICON ALLOYS, WITH PARTICULAR REFERENCE TO THE TERNARY PHASE ALPHA-ALFESI 67-10 M13-78450
THE TERNARY SYSTEM NI-V-B 67-10 M13-79072
THE PHASE EQUILIBRIA IN THE TERNARY SYSTEMS ZIRCONIUM-VANADIUM-BORON, ZIRCONIUM-NIOBIUM-BORON AND ZIRCONIUM-MANGANESE-BORON 67-10 M13-79346
X-RAY STRUCTURE INVESTIGATIONS OF SUPERCONDUCTING ALLOYS WITH NIOBIUM AS THE BASE 67-10 M13-79542
THE PHASE DIAGRAM OF A TERNARY SYSTEM OF COPPER-GERMANIUM-TIN ALLOYS 67-10 M13-80027
THE PHASE AB2 IN THE TERNARY SYSTEMS LA-SB-TE AND LA-SN-SB 67-10 M14-78479
A NEW PHASE OF NONSTOICHIOMETRIC NATURE IN THE POTASSIUM-OXYGEN-VANADIUM SYSTEM 67-11 M01-81565
PHASE EQUILIBRIA IN THE SYSTEM MNO-MN2O3-SIO2 67-11 M04-80117
DISTRIBUTION OF OXYGEN AND ALUMINUM BETWEEN METALLIC AND OXIDE PHASES IN THE CO-O-AL AND NI-O-AL SYSTEMS 67-11 M13-81154
STUDY OF THE EQUILIBRIUM DIAGRAM OF THE TINI-TIFE SYSTEM 67-11 M13-81172
X-RAY DIFFRACTION ANALYSIS OF THE CE-MG-AL SYSTEM IN THE O-33.3 AT . PER CENT CE RANGE 67-11 M13-81173
STUDY OF THE W-TA-RE SYSTEM BY THE DIFFUSION LAYER METHOD 67-11 M13-81174
A CONTRIBUTION TO THE CHROMIUM-CARBON-NITROGEN SYSTEM 67-12 M13-82053
PHASE EQUILIBRIA AND DISTRIBUTION OF THE ELEMENTS IN THE FE-O-AL SYSTEM 67-12 M13-82108
CONSTITUTION DIAGRAM OF THE MG-ND-NI SYSTEM IN THE MAGNESIUM-RICH RANGE 67-12 M13-82121
X-RAY EXAMINATION OF THE AL-BE-CE SYSTEM UP TO 25 PER CENT CE 67-12 M13-82122
PHASE EQUILIBRIUM IN THE TI-CO-AL SYSTEM 67-12 M13-82123
THE TERNARY CR-FE-SI SYSTEM 67-12 M13-82124
PHASE EQUILIBRIA IN THE TI-CO-SI SYSTEM 67-12 M13-82423
THE TITANIUM-NICKEL-SILICON SYSTEM 67-12 M13-82492
THE STRUCTURE OF SEMICONDUCTOR AG2TE-GA2TE3 ALLOYS 67-12 M13-82493
SLAG-METAL EQUILIBRIA IN THE PB-PBO-SB2O3 SYSTEM 67-12 M13-82565
STRUCTURAL DIAGRAMS AND PHASE REACTIONS OF FE-CR-N TERNARY SYSTEM 67-12 M13-82826
THE STRUCTURE OF THE I PHASE --V-NI-SI-- AND THE S PHASE --MN-CO-SI-- 67-12 M13-82880
THE URANIUM-PLUTONIUM-OXYGEN TERNARY PHASE DIAGRAM 67-12 M13-82998
ISOTHERMAL SECTIONS AT 600 AND 750 C. OF THE PHASE DIAGRAM OF THE MOLYBDENUM-TITANIUM-ZIRCONIUM SYSTEM 67-12 M13-83353
STUDY OF THE MG2SN-MG2GE SYSTEM 67-12 M13-83354
PRIMARY SOLID-SOLUTION PHASE BOUNDARY IN SILVER CORNER OF SILVER-CADMIUM-INDIUM TERNARY SYSTEM 67-12 M14-82758

TERNARY SYSTEMS, PHYSICAL PROPERTIES
ALLOY COMPOSITIONS OF HFB2 WITH URANIUM AND TRANSITION METAL BORIDES 67-04 M14-67453
EXAMINATION OF THE SYSTEM CU-AS-S AND THE DISTRIBUTION OF AG BETWEEN MATTE AND SPEISS 67-08 M15-74598
SOLUBILITY OF CARBON IN COPPER-MANGANESE ALLOYS IN THE LIQUID STATE BETWEEN 1000 AND 1250 C 67-10 M14-79925

TERNARY SYSTEMS, REACTIONS /CHEMICAL/

URANIUM CARBIDE. REFRACTORY METAL INTERACTIONS AT HIGH TEMPERATURE 67-03 M14-65987
EQUILIBRIA IN THE IRON-CARBON-OXYGEN SYSTEM IN THE TEMPERATURE AND CONCENTRATION RANGE OF LIQUID STEEL, AND HOW IT IS INFLUENCED BY PHOSPHORUS, MANGANESE, AND SULPHUR 67-06 M13-70257
REACTIONS OF COMPOUNDS IN THE NB-C-O SYSTEM WITH CO OR CO2 67-09 M14-78220

TERNARY SYSTEMS, REFINING
THE RECIPROCAL INFLUENCES OF SOME TE IMPURITIES UPON THEIR SEGREGATIONIST BEHAVIOR 67-07 M03-73834
THE STRUCTURE OF THE COPPER-NICKEL-OXYGEN SYSTEM AND ITS EFFECT ON THE BEHAVIOR OF NICKEL IN DRY COPPER REFINING 67-08 M03-75693

TERNARY SYSTEMS, SOLUBILITY
THE NATURE AND TYPE OF SULFUR SOLUTIONS IN FE-S-NI AND FE-S-CR SYSTEMS 67-04 M14-66655
MEASUREMENT OF CARBON SOLUBILITY AND ELECTROCHEMICAL DETERMINATION OF MANGANESE ACTIVITY IN CARBON-SATURATED MN-CO-C AND MN-NI-C SYSTEMS AT 1320 C 67-09 M14-78014

TERNARY SYSTEMS, SUPERCONDUCTIVITY
SUPERCONDUCTING CRITICAL FIELDS, CURRENTS AND TEMPERATURES IN THE NB-ZR-N TERNARY SYSTEM 67-03 M16-65390
SUPERCONDUCTING HC-JC AND TC MEASUREMENTS IN THE NB-TI-N, NB-HF-N AND NB-V-N TERNARY SYSTEMS 67-09 M16-77449

TERNARY SYSTEMS, SURFACE PROPERTIES
SURFACE TENSION OF TERNARY IDEAL METALLIC SOLUTIONS 67-03 M15-65951

TERNARY SYSTEMS, THERMAL PROPERTIES
ANOMALOUS THERMAL CONDUCTIVITY OF CD3AS2 AND THE CD3AS2-ZN3AS2 ALLOYS 67-01 M15-57118
THE AU-PB-SN TERNARY SYSTEM 67-06 M14-70795

TERNARY SYSTEMS, THERMODYNAMICS
THE NATURE OF INTERACTION BETWEEN COMPONENTS IN THE GAMMA AND GAMMA PRIME PHASE OF THE NI-AL, NI-AL-CR, NI-AL-CO AND NI-AL-FE SYSTEMS 67-02 M14-58983
CALORIMETRIC DETERMINATION OF SOLUTE-SOLUTE INTERACTIONS IN SOME DILUTE TIN-RICH LIQUID ALLOYS 67-02 M15-59428
THE URANIUM-CARBON-NITROGEN SYSTEM 67-02 M15-60617
DILUTE SOLUTIONS IN MOLTEN ALLOYS 67-02 M15-60636
LOW TEMPERATURE SPECIFIC HEAT OF BCC ALLOYS OF 3D TRANSITION ELEMENTS WITH 20 PER CENT AL 67-07 M15-73630
MEASUREMENTS OF VAPOR PRESSURE FOR NAF3-ALF3 AND 67-07 M15-73878
THERMODYNAMICS OF TERNARY METALLIC SOLUTIONS 67-09 M15-77727

TERNARY SYSTEMS, X RAY ANALYSIS
STUDY OF THE ALSB-GASB-INSB SYSTEM 67-04 M13-68050

TERNARY SYSTEMS, X RAY DIFFRACTION
THE CRYSTAL STRUCTURES OF CR3 --C, N-- AND CR2VC2 67-05 M13-68486

TERTIARY DISPLACEMENTS
SEE DISPLACEMENTS /LATTICE/

TEST EQUIPMENT
SEE TESTING EQUIPMENT

TEST FACILITIES
SEE CREEP MACHINES
FATIGUE TESTING MACHINES
TESTING EQUIPMENT
TESTING MACHINES

TESTING APPARATUS
SEE TESTING EQUIPMENT

TESTING EQUIPMENT
SEE ALSO CREEP MACHINES
FATIGUE TESTING MACHINES
TESTING MACHINES
METAL WEAR AND RESEARCH METHODS 67-02 M17-59905
THE CREEP TESTING OF METALS 67-02 M17-61537
RECENT ADVANCES IN NONDESTRUCTIVE TESTING TECHNOLOGY AT HANFORD 67-03 M19-65316
INVESTIGATIONS OF THE MECHANICAL PROPERTIES OF REFRACTORY MATERIALS AT HIGH TEMPERATURES IN A VACUUM AND IN AN INERT MEDIUM 67-04 M17-66860
A COMPARATIVE STUDY OF THE A. S. T. M. THERMAL CONDUCTIVITY AND THE BLAKELEY-COBB APPARATUS AS INSTRUMENTS FOR ROUTINE MEASUREMENTS OF THERMAL CONDUCTIVITY OF REFRACTORIES 67-05 M15-68476
EXPERIMENTAL TECHNIQUE FOR IMPULSE LOADING OF STRUCTURES 67-05 M17-68651
A METHOD FOR TENSILE TESTING OF FOIL IN A WIDE TEMPERATURE RANGE 67-05 M17-69617
ON A METHOD OF TENSILE TESTING OF TUNGSTEN AND MOLYBDENUM SINGLE CRYSTALS 67-05 M17-69634
ON TESTING MATERIALS FOR CORROSION RESISTANCE 67-05 M18-69636
ELECTRO-DISCHARGE MACHINED REFERENCE DISCONTINUITIES 67-05 M19-68442
STRESS-RUPTURE AND TENSILE TEST TECHNIQUES FOR SINGLE BORON FILAMENTS AT ROOM AND ELEVATED TEMPERATURES 67-07 M09-73367
METAL SPECTROSCOPY--AN EFFECTIVE ACCELERATED TESTING METHOD FOR METAL PRODUCING AND METAL FINISHING PLANTS 67-09 M19-78110
CZECHOSLOVAK PRACTICE IN CREEP-TESTING TECHNIQUES AND DATA ANALYSIS --1966-- 67-11 M17-80252
EQUIPMENT TESTING. LEAK TESTING ASSURES SOUND VESSELS 67-11 M19-81569

TESTING MACHINES
SEE ALSO CREEP MACHINES
FATIGUE TESTING MACHINES
A DYNAMIC BIAXIAL TESTING MACHINE 67-03 M17-65661
TECHNIQUES FOR ELEVATED-TEMPERATURE TENSILE TESTING OF THIN SUPER ALLOYS 67-05 M17-68670
TENDENCIES IN THE GENERAL DEVELOPMENT OF STATIC AND DYNAMIC TESTING MACHINES 67-05 M17-69197
AUTOMATIC INDENTER FOR DETERMINING THE QUALITY OF WELDS BY COMPARATIVE METHOD 67-06 M19-70371
TORSION TESTING AS A MEANS OF ASSESSING DUCTILITY AT HIGH TEMPERATURES 67-08 M17-76142
STANDARDIZATION OF THE CREEP-TESTING MACHINE 67-11 M17-80255
THE DETERMINATION OF THE ELEVATED-TEMPERATURE PROPERTIES OF STEEL 67-11 M17-80257
HIGH-TEMPERATURE PROPERTIES OF STEELS 67-11 M17-80288

TESTING MACHINES, DRAWABILITY
ON TESTING DRAW PROPERTIES OF THIN-SHEET METALS ON PTL-10 AND MTL-10 TESTERS 67-01 M17-57246

TETRAGONAL LATTICE
THE CRYSTAL STRUCTURE OF CE5MG42 67-06 M13-71404
PHASE TRANSITIONS IN TEO4 AT HIGH PRESSURES 67-06 M14-70049
LOW TEMPERATURE STRUCTURAL TRANSFORMATION IN NB3SN 67-06 M14-70574
STRUCTURE OF MARTENSITE 67-07 M14-72634
CRYSTAL MODIFICATIONS OF BINARY SYSTEMS CONTAINING MOLTEN ZIRCONIA AND SPRAYED BY ARC-PLASMA 67-07 M14-73301
CRYSTAL STRUCTURE OF RHHG2 67-09 M13-77571
CRYSTAL STRUCTURE OF QUENCHED STEEL 67-10 M14-80014
EFFECT OF PLASTIC STRAIN ON THE STATE OF CARBON SOLID SOLUTION IN QUENCHED STEEL MARTENSITE 67-11 M14-80745
STEEL AND TEMPERATURE 67-11 M15-81538

TETRAGONAL LATTICE, PHASE TRANSFORMATIONS
STUDIES IN SOLID STATE CHEMISTRY. PT. 1. ON A SOLID-STATE MECHANISM FOR THE POLYMORPHIC TRANSFORMATION OF ORTHORHOMBIC TO TETRAGONAL PBO 67-07 M14-73637

TEXTURE
TEXTURES AS CAUSES OF EARING 67-01 M08-57286
ON THE DISCUSSION OF THE ROLLING TEXTURE OF IRON 67-01 M13-57294
HOT ROLLING TEXTURE OF LOW-CARBON STEEL 67-01 M13-58238
QUANTITATIVE RELATIONS BETWEEN TEXTURE AND REMANENCE OF HEXAGONAL FERRITES 67-01 M13-58443
RECRYSTALLIZATION TEXTURES IN COLD-ROLLED ELECTROLYTIC IRON CONTAINING ALUMINUM AND NITROGEN 67-01 M14-57414
TEXTURE OF HOT ROLLED BAND OF SILICON IRON 67-01 M14-58239
EFFECT OF CRYSTALLOGRAPHIC TEXTURE ON PRESS FORMING OF EXTRA-LOW-CARBON RIMMED STEEL SHEET 67-01 M17-58240
PRESS FORMABILITY OF 2S ALUMINUM AND PURE COPPER 67-01 M17-58331
MORPHOLOGY AND TEXTURE OF CARBONYL MOLYBDENUM AND TUNGSTEN PRECIPITATES 67-02 M13-59930
HOT EXTRUDED AND COLD ROLLED TEXTURES OF DISPERSION ALLOY, AL-AL2O3 --SAP-- 67-02 M13-59982

DEVELOPMENT OF AN AXIAL TEXTURE IN METALS WITH AN FCC LATTICE 67-02 M13-61674
A CONSIDERATION ON THE DEVELOPMENT OF ROLLING TEXTURES IN ALPHA IRON 67-02 M14-59112
THE REPRESENTATION OF TEXTURES ON ROTATING FILM WITH THE AID OF SINGLE-CRYSTAL X-RAY GONIOMETERS 67-02 M14-60027
ON THE INTERPRETATION OF ANNEALING TEXTURES OF WIRES OF FCC METALS AND ALLOYS 67-02 M14-61897
TEXTURE AND ELECTRICAL CONDUCTIVITY OF CADMIUM SULFIDE FILMS 67-02 M15-61658
FORMABILITY OF ALUMINUM SHEETS 67-02 M17-59748
METHODS OF STUDYING TEXTURE IN ELECTROLYTIC DEPOSITS 67-03 M13-65105
ESTIMATING THE DEGREE OF TEXTURING IN A LOW-TEXTURED ALLOY 67-03 M13-65604
QUALITATIVE STUDY OF THE ORIENTATION OF ROLLED IRON 67-03 M13-65781
GRAIN BOUNDARY MIGRATION AND THE FORMATION OF RECRYSTALLIZATION TEXTURES IN METAL SINGLE- AND POLYCRYSTALS 67-03 M14-65546
EVIDENCE FOR A HELICAL CRYSTALLOGRAPHIC TEXTURE IN URANIUM BARS OF MAGNOX CLAD FUEL ELEMENTS 67-03 M16-65854
CONTRIBUTION TO THE STUDY OF PLASTIC DEFORMATION MECHANISMS IN POLYCRYSTALLINE BERYLLIUM BETWEEN 80 AND 500 K 67-03 M17-65276
THE GROWTH OF LARGE SINGLE CRYSTAL SHEETS WITH THE --100-- --011-- ORIENTATION FROM ELECTROLYTIC IRON 67-04 M14-66269
STRUCTURAL INVESTIGATION OF REACTION DIFFUSION IN THE COPPER-ZINC SYSTEM 67-04 M14-66486
PHASE AND STRUCTURAL RECRYSTALLIZATION OF 15KH1M1F STEEL DURING HEATING 67-04 M14-66622
CHANGES IN TEXTURE OF HOT ROLLED STRIP OF LOW-CARBON STEEL 67-04 M14-67513
DEVELOPMENT OF RECRYSTALLIZATION TEXTURES IN SILICON IRON AFTER LOW AND MEDIUM DEFORMATIONS 67-04 M14-67614
EFFECT OF A MAGNETIC FIELD ON THE RECRYSTALLIZATION TEXTURE OF IRON 67-04 M14-67651
DILATOMETRIC ANOMALIES IN TEXTURED ALLOYS DURING ALPHA-TO-GAMMA TRANSFORMATION 67-04 M14-67921
TEXTURED TITANIUM IN DESIGN 67-04 M17-66290
TEXTURE OF HOT ROLLED BAND OF SILICON IRON 67-05 M07-68473
IRREGULAR TEXTURES OF ALUMINUM SHEETS 67-05 M13-68401
COMPARATIVE TEXTURES OF SLOWLY AND EXPLOSIVELY LOADED METALS 67-05 M13-69745
THE SHOCK LOADING OF AUSTENITIC SINGLE CRYSTALS 67-05 M13-69746
TEXTURE STUDY OF THE ALPHA-TO-GAMMA TRANSFORMATION 67-05 M14-68249
TEXTURAL AND ELECTRICAL PROPERTIES OF VACUUM-DEPOSITED GERMANIUM FILMS 67-05 M14-68622
ORIENTATION CHANGES OF SINGLE CRYSTALS OF FACE CENTERED CUBIC METALS ON WIRE DRAWING. PT. 3. DISCUSSION OF THE RESULTS 67-05 M14-69849
ROLLING TEXTURE OF --112-- --110-- COPPER SINGLE CRYSTAL 67-05 M14-69884
TEXTURE STRENGTHENING 67-05 M17-68669
ON THE STRUCTURE AND MECHANICAL PROPERTIES OF COPPER, ROLLED AT LOW TEMPERATURES 67-05 M17-69657
ROLLING TEXTURE OF SINTERED COPPER 67-06 M09-72321
THE NATURE OF TRANSITION TEXTURES IN COPPER 67-06 M13-69935
FORGING AND DRAWING TEXTURES OF MOLYBDENUM WIRE OBTAINED FROM SINGLE CRYSTALS OF VARIOUS ORIENTATIONS 67-06 M13-69983
ORIENTATION OF TWIN PARTICLES IN ROLLED ALUMINUM INGOTS 67-06 M13-70214
DISLOCATION CONFIGURATIONS IN WIRE-DRAWN POLYCRYSTALLINE COPPER ALLOYS.. A STUDY BY X-RAY DIFFRACTION 67-06 M13-71089
YIELDING AND PLASTIC DEFORMATION IN TEXTURED SHEET OF TITANIUM AND ITS ALLOYS 67-06 M13-71609
THE FORMATION OF THE ROLLING TEXTURE OF BODY-CENTERED CUBIC METALS AND ALLOYS 67-06 M13-71657
STUDY OF THE SURFACE MICRORELIEF OF STEEL WITH A WIDMANSTATTEN STRUCTURE 67-06 M14-69979
STRUCTURE OF THE ROLLING TEXTURE OF BCC METALS AND ALLOYS. PT. 2. ORIENTATION DISTRIBUTION OF CRYSTALLITES IN ROLLED NIOBIUM DETERMINED BY MEANS OF SELECTED AREA ELECTRON DIFFRACTION --SAED-- 67-06 M14-71723
THE GROWTH OF LARGE SINGLE CRYSTAL SHEETS WITH THE --100-- --011-- ORIENTATION FROM ELECTROLYTIC IRON 67-06 M14-71733
INFLUENCE OF ANNEALING CONDITIONS AND PRECIPITATION ON THE RECRYSTALLIZATION TEXTURE OF ALUMINUM 67-06 M14-71856
INFLUENCE OF ROLLING TEXTURE ON TOUGHNESS OF STEEL 67-06 M17-71262
ENAMELLED STEELS--THEIR PROPERTIES AND APPLICATION 67-07 M12-74018
ACHIEVING FINE SURFACE TEXTURE AND GEOMETRY WITH MACHINE LAPPING 67-07 M12-74223
MORPHOLOGY AND TEXTURE OF DEPOSITS OF CARBONYL MOLYBDENUM AND TUNGSTEN 67-07 M13-72585
METHODS OF STUDYING TEXTURE IN ELECTROLYTIC DEPOSITS 67-07 M13-72787
DEFORMATION TEXTURES IN INGOT BERYLLIUM 67-07 M13-73753
THE CRYSTALLOGRAPHY OF BERYLLIUM SHEET 67-07 M13-73757
ORIENTATION DISTRIBUTION OF CRYSTALLITES IN ROLLED 70-30 BRASS DETERMINED BY MEANS OF SELECTED AREA ELECTRON DIFFRACTION --SAED-- 67-07 M13-73847
TEXTURE-ELECTRICAL-PROPERTY CORRELATIONS IN ORIENTED SILICON STEEL 67-07 M15-73518
THE PLASTIC DEFORMATION OF ALNIFE ALLOYS ON THERMAL CYCLING 67-07 M17-73885
ESTIMATING THE DEGREE OF TEXTURE IN A LOW-TEXTURE ALLOY 67-08 M13-74529
FORMATION OF COLD ROLLED TEXTURE AND RECRYSTALLIZED TEXTURE IN SINGLE CRYSTALS OF 3 PER CENT SILICON IRON. PT. 1. 67-08 M13-75154
INFLUENCE OF ROLLING TEMPERATURE ON TEXTURES IN RIMMING STEEL 67-08 M13-75814
ORIENTED NUCLEATION IN THE FORMATION OF ANNEALING TEXTURES IN IRON 67-08 M14-75582
CHANGE IN THE SHAPE OF METALS UNDER THE COMBINED ACTION OF THERMAL CYCLES AND EXTERNAL LOADS 67-08 M15-74879
COMPRESSION AND COLD ROLLING OF DISPERSION STRENGTHENED ALUMINIUM ALLOY --S.A.P.-- 67-08 M17-74410
ROLLING TEXTURE AND ELASTIC ANISOTROPY OF THE KOVAR ALLOY 67-08 M17-74994
EFFECTS OF DIRECTION OF TEXTURE IN ROLLED STOCK ON RESISTANCE OF STEEL TO INITIATION AND DEVELOPMENT OF CRACKS 67-08 M17-75731
INFLUENCE OF REDUCTION OF CROSS SECTION UNDER TENSILE STRESS ON ANISOTROPY AND TEXTURE OF COLD ROLLED POLYCRYSTALLINE NICKEL 67-08 M17-76224
MEASUREMENT OF SURFACE TOPOGRAPHY IN THE FIELD OF ROLLING AND DEEP DRAWING 67-08 M19-75134
THE SUPERCONDUCTING GRADE 65BT ALLOY 67-08 M20-75442
STRUCTURES OF URANIUM EXTRUDED HIGH IN THE ALPHA PHASE 67-09 M07-77465
SPONTANEOUSLY AND ARTIFICIALLY RECRYSTALLIZED TEXTURES IN ROLLED 3 PER CENT SILICON-IRON SINGLE CRYSTALS 67-09 M13-77716
THERMOMAGNETIC TREATMENT OF SILICON IRON SINGLE CRYSTALS AND ITS EFFECT ON DOMAIN STRUCTURE 67-09 M13-77765
THE RELATION BETWEEN THE LATTICE DEFORMATIONS AND CRYSTAL ORIENTATION IN ELECTROLYTICALLY DEPOSITED POLYCRYSTALLINE NICKEL LAYERS 67-09 M14-76798
THE SHEET-TEXTURE OF FE-30.2 WT PER CENT NI ALLOY 67-09 M14-77253
DISTRIBUTION OF TEXTURE OVER THE SECTIONS OF ALPHA- AND GAMMA-DEFORMED AND QUENCHED BARS OF URANIUM STUDIED RADIOGRAPHICALLY 67-10 M13-78355
FURTHER CONTRIBUTIONS TO THE KNOWLEDGE OF THE RECRYSTALLIZATION OF COLD ROLLED IRON. THE TEXTURE OF IRON AS ROLLED AND ITS CHANGES DURING RELAXATION AND RECRYSTALLIZATION 67-10 M13-79068
QUANTITATIVE, METALLOGRAPHICAL ANALYSIS OF TEXTURE IN METALS 67-10 M13-79203
GRAIN GROWTH AND CHANGES IN MAGNETIC PROPERTIES DURING THE SECONDARY RECRYSTALLIZATION OF COLD ROLLED TRANSFORMER STEEL 67-10 M14-78972
EFFECT OF STRUCTURE AND PHASE COMPOSITION ON THE COERCIVE FORCE OF CONDENSED COBALT FILMS 67-10 M15-79839
STUDY OF THE TEXTURES DEVELOPED IN ELECTROLYTIC

URANIUM BY ROLLING AT ROOM TEMPERATURE AND THEIR EVOLUTION DURING ALPHA-PHASE ANNEALS
67-11 M13-80248

CRYSTALLOGRAPHIC RELATIONSHIPS BETWEEN THE ROLLING AND THE RECRYSTALLIZATION TEXTURES OF ALUMINIUM
67-11 M13-80378

FORMATION OF COLD ROLLED TEXTURE AND RECRYSTALLIZED TEXTURE IN SINGLE CRYSTALS OF 3 PER CENT SILICON IRON. PT. 2. RECRYSTALLIZED TEXTURE
67-11 M13-80797

THE MECHANISM OF RIDGING PHENOMENON IN 17 PER CENT-CHROMIUM STAINLESS STEEL SHEETS
67-11 M17-80941

INFLUENCE OF ROLLING TEXTURE ON THE COLD WELDING CONDITIONS FOR ALUMINIUM
67-12 M11-82245

FIBER TEXTURE IN DRAWN TUNGSTEN WIRES
67-12 M13-82733

TEXTURE, ALLOYING EFFECTS

EFFECT OF CHROMIUM AND COBALT ON ROLLING TEXTURE OF IRON
67-04 M07-66620

A COMPARISON OF THE USE OF ALUMINUM AND VANADIUM NITRIDES FOR MAKING GRAIN-ORIENTED SILICON-IRON
67-07 M13-73519

TEXTURE, HEATING EFFECTS

NATURE OF STRUCTURAL CHANGES DURING HEATING OF AL PLUS 5 PER CENT CU PLUS 0.7 PER CENT MN ALLOY WITH A DEFORMATION TEXTURE --111-- PLUS --100--
67-05 M14-69659

EFFECT OF PRERECRYSTALLIZATION ANNEAL ON CHANGES IN ELASTIC CHARACTERISTICS AND STRUCTURE OF COLD ROLLED TI AND ZR
67-05 M17-68973

THE SURFACE BORIDING OF STEEL. PT. 2. GROWTH MECHANISM AND STRUCTURE OF INTERMEDIATE AND DIFFUSION LAYERS
67-09 M10-77879

TEXTURE, IMPURITY EFFECTS

EFFECT OF IMPURITIES ON THE DEVELOPMENT OF --110-- --001-- SECONDARY RECRYSTALLIZATION TEXTURE IN 3 PER CENT SILICON IRON
67-09 M14-76758

EFFECTS OF IMPURITIES ON THE STRUCTURE OF EPITAXIAL GOLD FILMS
67-09 M14-77461

TEXTURE, STRESS EFFECTS

ON THE COLD ROLLING AND ANNEALING TEXTURES OF MILD STEEL SHEETS
67-01 M14-58737

EFFECT OF PLASTIC DEFORMATION AND SUBSEQUENT HEAT TREATMENT ON YOUNGS MODULUS AND CRYSTALLOGRAPHIC TEXTURE OF FE-NI-TI INVAR-TYPE ALLOYS
67-04 M17-67386

EFFECT OF DEGREE OF DEFORMATION ON TEXTURES OF DEFORMATION AND RECRYSTALLIZATION IN SILICON IRON
67-05 M17-68558

EFFECTS OF DEGREE OF DEFORMATION ON DEFORMATION AND RECRYSTALLIZATION TEXTURES IN SILICON IRON
67-07 M17-72469

INFLUENCE OF THE DEGREE OF SWAGING DURING COLD ROLLING ON THE FORMATION OF THE RECRYSTALLIZATION TEXTURE IN THE N29K18 AND N47KH ALLOYS
67-08 M14-74993

ROLLING AND ANNEALING TEXTURES IN CU-BE ALLOYS
67-09 M13-78206

ROLLING AND RECRYSTALLIZATION TEXTURES OF SILICON IRON CRYSTALS WITH --110-- --001-- ORIENTATIONS
67-09 M13-78216

THE ORIGIN OF RIDGING IN 17 PER CENT CR STAINLESS STEEL HOT STRIPS
67-09 M13-78241

COLD ROLLING AND RECRYSTALLIZATION TEXTURES OF 3003 AL-MN ALLOY
67-09 M13-78246

ORIENTATION RELATIONSHIPS BETWEEN THE ROLLING AND RECRYSTALLIZATION TEXTURE OF ALUMINUM
67-09 M14-76796

DEVELOPMENT OF DRAWING AND COMPRESSION TEXTURES
67-09 M14-77992

ROLLING AND RECRYSTALLIZATION TEXTURES IN ALUMINUM
67-09 M14-78207

ANOMALIES OF THE TEMPERATURE DEPENDENCE OF YOUNGS MODULUS OF NIOBIUM-ZIRCONIUM ALLOYS AND OF PURE NIOBIUM
67-09 M17-76791

TEXTURE, TEMPERATURE EFFECTS

GROWTH TEXTURES IN BERYLLIUM CONDENSATES
67-04 M14-66499

THALLIUM, ALLOYING ADDITIVE

SUPERCONDUCTING FLUXLINE PINNING BY TWIN BOUNDARIES
67-02 M15-61536

THE SUPERCONDUCTING PROPERTIES OF PB-TL ALLOYS
67-03 M16-65392

INFLUENCE OF ADDITIONS OF BERYLLIUM, THALLIUM, AND SILICON ON THE HEAT RESISTANCE AND ELECTRICAL AND MECHANICAL PROPERTIES OF SILVER
67-08 M15-74998

THALLIUM, BINARY SYSTEMS

CONDUCTIVITY MEASUREMENTS IN THE THALLIUM-TELLURIUM SYSTEM
67-02 M15-60880

ELECTRICAL CONDUCTIVITY AND ELECTRODE PROCESSES IN LIQUID AND SOLID THALLIUM SULFIDES AND SELENIDES
67-03 M15-65585

THE CONSTITUTION OF SN-TL ALLOYS
67-04 M13-68125

THE THALLIUM-INDIUM SYSTEM AT ELEVATED PRESSURES AND TEMPERATURES
67-04 M14-66050

SUPERCONDUCTIVITY IN THE ALLOY SYSTEM INDIUM-THALLIUM
67-05 M16-69519

LATTICE DYNAMICS OF THE ALLOY SYSTEMS BI-PB-TL
67-06 M16-70088

THE PRESSURE RELATIONSHIP BETWEEN THE KIRKENDALL EFFECT AND THE SELF-DIFFUSION IN A PB-TL SYSTEM
67-07 M14-72450

THE STRUCTURES OF THE BI-SN, BI-PB AND BI-TL EUTECTICS
67-08 M13-76053

THERMODYNAMIC PROPERTIES OF THE TWO-PHASE REGION OF CONSTANT-COMPOSITION BINARY SOLUTIONS
67-10 M15-79250

TRANSITION TEMPERATURE OF PB-IN AND PB-TL ALLOYS
67-11 M16-80720

THALLIUM, DIFFUSION

INTERSTITIAL SOLUTIONS OF NOBLE METALS IN METALS AND SEMICONDUCTORS
67-04 M14-67540

TRACER DIFFUSION OF MERCURY IN THALLIUM AMALGAMS
67-07 M14-72875

DETERMINATION OF THE DISTRIBUTION COEFFICIENT AND DIFFUSION CONSTANTS IN DILUTE ALLOYS OF THALLIUM IN TIN
67-12 M14-82738

THALLIUM, EXTRACTION

CEMENTATION OF THALLIUM FROM SULFURIC ACID SOLUTIONS BY ZINC GALLAM
67-06 M03-70906

INVESTIGATION OF CONDITIONS OF ROASTING A COPPER-PYRITE CONCENTRATE CONTAINING AN INCREASED AMOUNT OF RARE METALS
67-11 M03-81617

THALLIUM, INTERMETALLICS

NEW A-15 PHASES
67-08 M16-75002

THALLIUM, MAGNETIC PROPERTIES

MAGNETOACOUSTIC EFFECT IN THALLIUM
67-05 M15-68285

THALLIUM, MECHANICAL PROPERTIES

THE INFLUENCE OF VARIOUS PHYSICAL PROPERTIES OF METALS ON THEIR FRICTION AND WEAR BEHAVIOR IN VACUUM
67-07 M17-74054

THALLIUM, OPTICAL PROPERTIES

THE OPTICAL PROPERTIES OF INDIUM, GALLIUM AND THALLIUM
67-06 M15-72089

THALLIUM, PHASE TRANSFORMATIONS

EFFECT OF POLYMORPHIC TRANSFORMATION ON THE STRUCTURE OF THALLIUM
67-10 M14-79723

THALLIUM, PHYSICAL PROPERTIES

ON STRUCTURAL CHANGES IN LIQUID THALLIUM
67-08 M15-74865

THALLIUM, REFINING

THE ELECTRON BOMBARDMENT SMELTING FURNACE OF LA CIE PECHINEY
67-03 M03-65194

STUDY OF THE ELECTROCHEMICAL PROPERTIES OF TL
67-05 M03-68968

THALLIUM, SUPERCONDUCTIVITY

MAXIMUM CRITICAL MAGNETIC FIELDS IN SUPERCONDUCTING METALS
67-01 M16-58169

INCREASE OF THE ANISOTROPY OF THE ENERGY GAP IN SUPERCONDUCTING THALLIUM UNDER PRESSURE
67-04 M16-68137

SUPERCONDUCTING TRANSITIONS IN BODY-CENTERED CUBIC THALLIUM-INDIUM ALLOYS
67-05 M16-69520

THE INFLUENCE OF DIELECTRIC FILMS ON THE SUPERCONDUCTIVITY OF THIN SN AND TL FILMS
67-09 M16-76453

THE INFLUENCE OF ALPHA IRRADIATION ON THE TRANSITION TEMPERATURE OF SUPERCONDUCTIVE TIN, INDIUM AND THALLIUM FOILS
67-10 M16-78497

THALLIUM, TERNARY SYSTEMS

THE MICROSTRUCTURES OF TERNARY EUTECTIC ALLOYS IN THE SYSTEMS CD-SN---PB, IN, TL--, AL-CU---MG, ZN, AG--, AND ZN-SN-PB
67-09 M13-76678

THALLIUM, THERMAL PROPERTIES

THE ABSOLUTE THERMOELECTRIC POWER OF LIQUID METALS
67-01 M15-57972

THE HEAT OF MIXING OF SB WITH B-METALS. PT. 2. THE IN-TL SYSTEM
67-06 M15-71599

THALLIUM, THERMODYNAMICS

LATTICE SPECIFIC HEATS OF THALLIUM AND YTTRIUM
67-07 M15-72949

THALLIUM BASE ALLOYS, ELECTRICAL PROPERTIES

THE SEEBECK EMF FOR CERTAIN BI-, CD-, PB-, SN- AND TL-BASE ALLOYS AGAINST THE PURE SOLVENT

THALLIUM BASE ALLOYS
67-10 M15-79951
THALLIUM BASE ALLOYS, MECHANICAL PROPERTIES
SINGLE CRYSTALLINE ELASTIC CONSTANTS OF LEAD-THALLIUM ALLOYS 67-06 M17-70423
THALLIUM BASE ALLOYS, PHYSICAL PROPERTIES
INVESTIGATION OF THE VISCOSITY HYSTERESIS IN THALLIUM-BISMUTH MELTS 67-02 M15-60550
ELECTRICAL CONDUCTIVITY AND ELECTRODE PROCESSES IN LIQUID AND SOLID THALLIUM SULFIDES AND SELENIDES 67-03 M15-65585
THALLIUM BASE ALLOYS, THERMODYNAMICS
THERMODYNAMIC CHARACTERISTICS OF THE THALLIUM-TELLURIUM SYSTEM 67-01 M15-58000
THALLIUM COMPOUNDS, COATINGS
THE INFLUENCE OF DIELECTRIC FILMS ON THE SUPERCONDUCTIVITY OF THIN SN AND TL FILMS 67-09 M16-76453
THALLIUM COMPOUNDS, CRYSTAL LATTICES
AN ELECTRON-DIFFRACTION STUDY OF AMORPHOUS TLSE 67-02 M13-61656
THALLIUM COMPOUNDS, ELECTROLYSIS
STUDY OF ELECTROLYSIS IN THE TL-S AND TL-SE SYSTEMS 67-06 M03-72113
THALLIUM COMPOUNDS, PHASES /STATE OF MATTER/
NEW HIGH PRESSURE PHASES HAVING THE CORUNDUM STRUCTURE 67-04 M13-67364
THALLIUM COMPOUNDS, REDUCTION /CHEMICAL/
KINETICS OF THE REDUCTION OF THALLIUM SULPHIDE WITH CARBON MONOXIDE 67-02 M03-60730
THALLIUM COMPOUNDS, SEMICONDUCTORS
ELECTRIC PROPERTIES OF SEMICONDUCTOR MELTS OF TI-S SYSTEM 67-02 M15-61203
THALLIUM COMPOUNDS, SINGLE CRYSTALS
SEMICONDUCTING PROPERTIES OF THALLIUM SELENIDE 67-11 M15-81476
THALLIUM COMPOUNDS, THERMODYNAMICS
THERMODYNAMICS OF VAPORIZATION OF THALLIC OXIDE 67-05 M15-69596
THAWING
SEE MELTING
THERMAL ANALYSIS
A STUDY OF U PLUS CUC REACTION IN THE SOLID STATE, IN MIXED U AND C POWDERS. PT. 3. A STUDY BY DIFFERENTIAL-THERMAL ANALYSIS 67-02 M09-60746
HEATS OF FUSION AND TRANSFORMATION FOR SOME METALS AND COMPOUNDS 67-02 M15-61114
THE DETERMINATION OF RESIDUAL AUSTENITE BY DIFFERENTIAL THERMAL ANALYSIS --DTA-- 67-04 M13-67209
THE INTERDIFFUSION OF NIOBIUM AND MOLYBDENUM 67-04 M14-66160
HIGH-TEMPERATURE CHEMISTRY OF SILICATES AND OTHER OXIDE SYSTEMS 67-04 M15-66278
CERAMIC THERMOCHEMISTRY. PT. 2 67-06 M05-70611
THE CONTROL OF THE CHEMICAL COMPOSITION OF HYPOEUTECTIC CAST IRON MELTS BY THERMAL ANALYSIS 67-06 M06-71188
THE AU-PB-SN TERNARY SYSTEM 67-06 M14-70795
A MAGNETIC DEVICE FOR DETECTING PHASE CHANGES AT ELEVATED TEMPERATURES 67-06 M14-71011
DTA AND X-RAY STUDIES OF ELECTROLESS NICKEL 67-07 M14-73451
A STUDY OF UC1-XOX. PT. 3 67-07 M15-74013
STRUCTURE AND STOICHIOMETRY OF NICKEL HYDROXIDES IN SINTERED NICKEL POSITIVE ELECTRODES 67-07 M19-73447
THE CONSTITUTION OF NB-CO ALLOYS 67-08 M13-75293
CONDUCTION HEAT TRANSFER 67-08 M15-76073
THE RELATION BETWEEN DAMPING BEHAVIOR AND CONSTITUTIONAL OF QUENCHED ALUMINUM-COPPER-MAGNESIUM-SILICON ALLOYS 67-08 M17-76210
DETERMINATION OF THE STORED ENERGY OF DEFORMATION OF METALS AND ALLOYS 67-08 M19-74699
THERMAL ANALYSIS OF DUCTILE IRON 67-09 M06-77398
SOME STUDIES OF THE HIGH TEMPERATURE BEHAVIOR OF PUO2 AND PUO2-UO2 MIXTURES 67-09 M14-76347
SOLID HYDRIDES 67-11 M16-80469
RADIOCRYSTALLOGRAPHIC ANALYSIS OF LOW- AND HIGH-TEMPERATURE FORMS OF RB2SO4 67-12 M13-82694
THE USE OF IN SITU THERMAL ANALYSIS FOR STUDIES OF TRANSFORMATIONS IN STEELS DURING WELDING 67-12 M14-83497
THE THERMODYNAMIC PROPERTIES OF SEVERAL SOLID PHASES OF THE COMPOUND, INSB 67-12 M15-82973
THERMAL CAPACITY
SEE SPECIFIC HEAT
THERMAL CONDUCTIVITY
THERMAL CONDUCTIVITY OF BRIQUETTED STEEL CHIPS 67-01 M04-57330
ANOMALOUS THERMAL CONDUCTIVITY OF CD3AS2 AND THE CD3AS2-ZN3AS2 ALLOYS 67-01 M15-57118
THERMAL DIFFUSIVITY AND THERMAL CONDUCTIVITY OF METALLIC BERYLLIUM 67-01 M15-57634
MEASUREMENT OF THE THERMAL CONDUCTIVITY AND ELECTRICAL CONDUCTIVITY OF ZRC, HFC, NBC AND TAC AT HIGH TEMPERATURES 67-01 M15-58057
THERMAL CONDUCTIVITY OF THE BORIDES OF TRANSITION METALS OF THE 4-6 GROUPS IN THE PERIODIC TABLE 67-01 M15-58078
MEASURING THE THERMAL CONDUCTIVITY OF SOLIDS AT ELEVATED TEMPERATURES UP TO THE MELTING POINT 67-01 M15-58226
LOW-TEMPERATURE THERMAL CONDUCTIVITY OF BORON 67-01 M15-58421
CHARACTERISTICS OF REFRACTORY INSULATING MATERIALS 67-01 M15-58539
AMORPHOUS SELENIUM THERMAL CONDUCTIVITY STUDY IN SOFTENING REGION 67-01 M15-58641
ON HEAT CONDUCTIVITY AND THERMOELECTROMOTIVE FORCE OF HEXAGONAL SELENIUM SINGLE CRYSTALS 67-01 M16-58642
APPLICATIONS OF REFRACTORY METALS IN INDUSTRIAL FUR 67-01 M20-58451
THE EFFECT OF ELECTRICAL CONDUCTION IN UO2 ON THE MEASUREMENT OF ITS HIGH TEMPERATURE THERMAL CONDUCTIVITY AS DETERMINED BY RADIAL FLOW TECHNIQUES 67-02 M15-59052
LATTICE THERMAL CONDUCTIVITY OF ANTIMONY DOWN TO 0.4 K 67-02 M15-60256
THERMAL AND ELECTRICAL PROPERTIES 67-02 M15-60704
EXPERIMENTAL STUDY OF HEAT TRANSFER DURING QUENCHING OF VERY SMALL METAL PARTS 67-02 M15-61994
THERMAL CONDUCTIVITY OF DYSPROSIUM BETWEEN 1 AND 4 K 67-03 M15-65111
THE THERMAL AND ELECTRICAL CONDUCTIVITIES OF SCANDIUM, YTTRIUM AND MANGANESE AND TWELVE RARE-EARTH METALS, AT NORMAL TEMPERATURE 67-03 M15-65126
HEAT CONDUCTIVITY STUDY OF GASE MONOCRYSTALS 67-03 M15-65230
THE EFFECT OF A MAGNETIC FIELD ON THE HEAT CONDUCTIVITY OF ER POLYCRYSTALS 67-03 M15-65232
THE WIEDEMANN-FRANZ RATIO OF METALLIC URANIUM AT ELEVATED TEMPERATURES 67-03 M15-65869
ANISOTROPY OF HEAT CONDUCTIVITY OF REFRACTORY PIECES 67-03 M15-65908
GERMAN SILVERS IN THE FIRST AND SECOND CATEGORIES. PT. 3 AND 4 67-04 M01-66667
REGULARITIES OF HEATING STEEL INGOTS BEFORE ROLLING 67-04 M10-66218
ELECTRICAL RESISTIVITY, THERMAL CONDUCTIVITY AND MAGNETIC SUSCEPTIBILITY OF POLYCRYSTALLINE SAMARIUM AT LOW TEMPERATURES 67-04 M15-68152
DETERMINING THE THERMAL CONDUCTIVITY COEFFICIENT AND RADIATION CAPACITY OF ALUMINUM OXIDE COVERINGS 67-04 M16-66873
THE THERMAL CONDUCTIVITY AND ELECTRICAL RESISTIVITY OF POLYCRYSTALLINE METALS OF THE PLATINUM GROUP AND OF SINGLE CRYSTALS OF RUTHENIUM 67-05 M15-68210
UO2 THERMAL DIFFUSIVITY MEASUREMENTS WITH A MODULATED ELECTRON BEAM TECHNIQUE 67-05 M15-68650
THERMAL CONDUCTIVITY OF POLYCRYSTALLINE ZINC BELOW 1 K 67-05 M15-68657
CHANGE IN THE ELECTRO- AND THERMOPHYSICAL PROPERTIES IN PSEUDOBINARY ALLOYS ZRCO.92-ZRNO.85 OF THE ZIRCONIUM-NITROGEN-CARBON SYSTEM 67-05 M15-68711
THERMAL CONDUCTION IN BISMUTH AT LIQUID HELIUM TEMPERATURES 67-05 M15-69095
INVESTIGATION OF THE HEAT CONDUCTIVITY OF CERTAIN METALS ON TRANSITION FROM THE SOLID TO THE LIQUID STATE 67-05 M15-69394
THERMAL CONDUCTIVITY OF SILICON, GERMANIUM, 3-5 COMPOUNDS AND 3-5 ALLOYS 67-05 M15-69600
THE ELECTRICAL AND THERMAL RESISTIVITIES OF IRON 67-05 M15-69774
ON HEAT CONDUCTIVITY OF A3B6-TYPE SEMICONDUCTORS 67-05 M15-69791
LOW-TEMPERATURE LATTICE THERMAL CONDUCTIVITY OF POTASSIUM-CESIUM ALLOYS 67-05 M15-69814

NEW DATA ON THE INFLUENCE OF CHARGED AND NEUTRAL IMPURITIES ON THE THERMAL CONDUCTIVITY OF THE CRYSTAL LATTICE OF BI2TE3 67-05 M16-69385
SUPERCONDUCTING-AND NORMAL-STATE THERMAL CONDUCTIVITY OF IMPURE TIN 67-05 M16-69514
ENERGY GAP AND THERMAL CONDUCTIVITY OF PURE AND IMPURE SUPERCONDUCTING TIN 67-05 M16-69515
TECHNICAL NOTE.. AN EVALUATION OF COOLING RATES IN CHARPY IMPACT SPECIMENS 67-06 M10-71685
PREDICTION OF HEAT INPUT FOR WELDING 67-06 M11-71686
UO2/SHEATH HEAT TRANSFER DURING IRRADIATION 67-06 M15-70713
THE PREDICTION OF THE TOTAL HEMISPHERICAL EMISSIVITIES OF POLISHED METALS FROM THEIR THERMAL CONDUCTIVITIES 67-06 M15-71048
MEASURING THE THERMAL CONDUCTIVITY COEFFICIENTS AT HIGH TEMPERATURES OF HEAT RESISTANT MATERIALS 67-06 M15-71827
THERMOPHYSICAL PROPERTIES OF HEAT-RESISTANT TUNGSTEN-RHENIUM ALLOY VR-27-VT 67-06 M15-72043
INFLUENCE OF ORDERING ON THE PROPERTIES OF SOLID SOLUTIONS OF THE SYSTEM --HGSE--3X---IN2SE3--1-X 67-06 M16-70982
THERMAL CONDUCTIVITY OF SWARF BRIQUETTES 67-07 M04-73052
THE THERMAL CONDUCTIVITY OF GAP AND ALSB 67-07 M15-72750
THERMAL CONDUCTIVITY OF PLUTONIUM METAL 67-07 M15-72840
MATTHIESSENS RULE IN SOME DILUTE NICKEL ALLOYS 67-07 M15-73311
THERMAL CONDUCTIVITY OF CHROMITE-CONTAINING REFRACTORIES AND TEMPERATURE PATTERNS IN ROOF LININGS 67-07 M15-73474
THERMAL CONDUCTIVITY AND FAR-INFRARED ABSORPTION OF UO2 67-07 M15-73604
THERMOELECTRIC PROPERTIES 67-07 M15-73686
HIGH-TEMPERATURE BEARING MATERIALS 67-07 M20-74055
THE THEORY OF STABILITY DURING TEMPERATURE GRADIENT ZONE MELTING 67-08 M14-75230
KAPITZA RESISTANCE OF MERCURY BETWEEN 1.1 AND 2.1 K 67-08 M15-74664
THE PROPERTIES OF ELECTRODE GRAPHITE AND THEIR EFFECT ON THE USE OF ELECTRODES IN ARC FURNACES. PT. 1. THE TEMPERATURE DEPENDENCE OF VARIOUS PROPERTIES 67-08 M15-75111
CONDUCTION HEAT TRANSFER 67-08 M15-76073
A SHORT SYNTHESIS OF THE THERMAL CONDUCTIVITY OF SOLID METALS AT ABSOLUTE TEMPERATURES BELOW 500K 67-08 M15-76161
EXPERIMENTAL INVESTIGATION OF THE THERMAL CONDUCTIVITY OF LIQUID CESIUM 67-09 M15-76766
EXPERIMENTAL DETERMINATION OF THE THERMAL CONDUCTIVITY COEFFICIENT OF FUSED ALUMINUM FROM 725 TO 1570 C 67-09 M15-77752
THERMAL TRANSPORT ACROSS SUPERCONDUCTING SOLDER JOINTS NEAR 0.1 K 67-09 M15-78030
HEAT TRANSFER PROPERTIES OF LOOSE-FIBER MATERIALS IN VACUUM 67-10 M05-79251
THE THERMAL DIFFUSIVITY AND THERMAL CONDUCTIVITY OF METALS AT HIGH TEMPERATURES 67-10 M15-78346
HEAT CONDUCTIVITIES BELOW 1 K. PT. 1 67-10 M15-78780
RESEARCH INTO THE RELATIONSHIP OF THE THERMAL CONDUCTIVITY AND THERMAL DIFFUSIVITY OF TANTALUM AND NIOBIUM TO THE TEMPERATURE 67-10 M15-78950
ON THE THERMAL CONDUCTIVITY OF CDTE AND SOME CDTE1 MINUS X SX AND CDTE1 MINUS X SEX SOLID SOLUTIONS 67-10 M15-79007
THERMOPHYSICAL PROPERTIES OF TANTALUM AT TEMPERATURES ABOVE 1000 C 67-10 M15-79249
THERMOPHYSICAL CONSTANTS OF POROUS POWDER METALLURGY MATERIALS 67-10 M15-79344
HEAT CONDUCTIVITY, STRENGTH AND COMPOSITION OF SOME CAST IRON MATERIALS 67-10 M15-79783
THERMOPHYSICAL PROPERTIES OF TANTALUM, TUNGSTEN, RHENIUM, AND THEIR ALLOYS IN THE TEMPERATURE RANGE 1500 TO 3000 K 67-10 M15-79942
ELECTRON SCATTERING IN NICKEL AT LOW TEMPERATURES 67-10 M16-78732
THERMAL PROPERTIES OF ANOMALOUS SUPERCONDUCTORS 67-10 M16-79467
THERMAL DIFFUSIVITY OF PLATINUM FROM 300 TO 1200 K 67-11 M14-81083
THERMOELECTRIC AND GALVANOMAGNETIC MEASUREMENTS ON --BI2TE3--5--BI2SE3--1--SB2TE3--18 67-11 M15-80121
PHOTOMECHANICAL EFFECT AND ANOMALIES IN THE PROPERTIES OF CERTAIN ELEMENTS 67-11 M15-80168
INVESTIGATION OF THE THERMAL CONDUCTIVITY OF INSB-GASB SOLID SOLUTIONS 67-11 M15-80229
URANIUM AND THORIUM OXIDES 67-11 M15-80462
THERMAL CONDUCTIVITY AND EMISSIVITY OF ALUMINUM OXIDE COATINGS AT HIGH TEMPERATURES 67-11 M15-80493
LIQUID PLUTONIUM--A REVIEW OF ITS PHYSICAL PROPERTIES 67-11 M15-80543
ANOMALOUS THERMAL CONDUCTIVITY IN GADOLINIUM BELOW 4 K 67-11 M15-80775
THERMAL CONDUCTIVITY AND THERMOPOWER OF SILVER AND SILVER-BASE ALLOYS AT LOW TEMPERATURES. PT. 3. ALLOYS WITH GOLD, ANTIMONY AND PALLADIUM 67-11 M15-80907
THERMAL CONDUCTIVITY AND HEAT CAPACITY OF THE MONOCARBIDE, MONOPHOSPHIDE AND MONOSULFIDE OF URANIUM 67-11 M15-81089
MEASUREMENTS OF THE THERMAL CONDUCTIVITY OF SINGLE CRYSTALS OF POTASSIUM BETWEEN 2.5 AND 40 K 67-11 M15-81388
THERMAL PROPERTIES OF MOLD COATING IN THE METAL MOLD CASTING FOR CAST IRON 67-12 M06-82604
PHYSICAL PROPERTIES OF STEELS 67-12 M15-82394
THE DEPENDENCE ON MICROSTRUCTURE OF THE HIGH TEMPERATURE PROPERTIES OF URANIUM OXIDE MOLYBDENUM AND URANIUM OXIDE AND TUNGSTEN CERMETS. PT. 2. HEAT TRANSFER PROPERTIES 67-12 M15-82503
THE LATTICE THERMAL CONDUCTIVITY OF SOME PALLADIUM AND PLATINUM ALLOYS 67-12 M15-82547
CHANGE IN THE ELECTRO- AND THERMOPHYSICAL PROPERTIES IN PSEUDOBINARY ALLOYS ALONG THE RAY ZRC0.92-ZRN0.85 OF THE ZIRCONIUM-NITROGEN-CARBON SYSTEM 67-12 M15-82687
THERMAL CONDUCTIVITY OF SILICON CARBIDE AT HIGH TEMPERATURES 67-12 M15-82786
HEAT CONDUCTIVITIES BELOW 1 K. PT. 2 67-12 M15-83401
APPARATUS FOR TESTING THE THERMAL CONDUCTIVITY OF METALS 67-12 M19-83209

THERMAL CONDUCTIVITY, ALLOYING EFFECTS
ON THE STUDY OF AL-TH ALLOYS. PT. 1. THE EFFECT OF TH ON THE PROPERTIES OF AL ALLOYS 67-05 M17-68883

THERMAL CONDUCTIVITY, ANISOTROPY
EFFECTIVE THERMAL CONDUCTIVITY AND STRUCTURAL CHANGE OF UO2 POWDER COMPACTED FUEL IN THERMAL SIMULATION EXPERIMENT 67-12 M15-83550

THERMAL CONDUCTIVITY, COMPOSITION EFFECTS
TINY PARTICLES TURN METALS INTO SUPERPERFORMERS 67-01 M01-58473
THE INFLUENCE OF EXCESS NONSTOICHIOMETRIC BI ON THE THERMAL CONDUCTIVITY OF CRYSTAL LATTICES OF BI2TE3, BI2TE3-SB2-TE3 AND BI2TE3-BI2S3 WITH IODINE ADDITIONS 67-03 M15-65383
HIGH ELECTRICAL CONDUCTIVITY AND HIGH HEAT RESISTIVITY OF SOME AL ALLOYS 67-04 M15-67575

THERMAL CONDUCTIVITY, IMPURITY EFFECTS
INFLUENCE OF DEFECTS AND OF THE INTERACTION BETWEEN THEM ON PHONON SCATTERING IN HEAVILY DOPED GE AND SI CRYSTALS 67-10 M15-79013

THERMAL CONDUCTIVITY, MICROSTRUCTURE
THE RELATIONSHIP OF PHYSICAL PROPERTIES, MICROSTRUCTURE, AND FABRICATION 67-02 M15-60707

THERMAL CONDUCTIVITY, RADIATION EFFECTS
THE ANNEALING OF IRRADIATION DAMAGE IN GRAPHITE 67-02 M15-59054
EFFECT OF IRRADIATION ON THE THERMAL CONDUCTIVITY OF UO2-X, STOICHIOMETRIC AND NONSTOICHIOMETRIC UO2 AT 60 C 67-04 M15-67458
LOW-TEMPERATURE THERMAL CONDUCTIVITY OF FAST-NEUTRON-IRRADIATED SILICON AND GERMANIUM 67-07 M15-72626
GAMMA-IRRADIATION EFFECT ON THE THERMAL CONDUCTIVITY OF AL2O3 WITH CR OR MN IMPURITIES AT LOW TEMPERATURE 67-11 M15-80225
EFFECTS OF ELECTRON IRRADIATION ON THE THERMAL CONDUCTIVITY OF N-AND P-TYPE GERMANIUM 67-11 M16-81485

THERMAL CONDUCTIVITY, SIZE EFFECTS

THERMAL CONDUCTIVITY

THE EFFECT OF GRAIN SIZE ON THE LATTICE THERMAL CONDUCTIVITY OF COPPER ALUMINIUM ALLOYS 67-11 M15-80619

THERMAL CONDUCTIVITY, TEMPERATURE EFFECTS
THE THERMAL CONDUCTIVITY OF YELLOW PBO BETWEEN O AND 500 C 67-03 M15-65373
THE THERMAL CONDUCTIVITY OF PLATINUM BETWEEN 300 AND 1000 K 67-03 M15-65693
ELECTRO- AND THERMOTRANSPORT IN IRON 67-06 M15-70426
THERMAL AND ELECTRICAL CONDUCTIVITIES AND SPECTRAL AND TOTAL EMISSIVITIES OF NICKEL AT HIGH TEMPERATURES 67-06 M15-70574
ON THE MECHANISM OF THERMAL CONDUCTIVITY IN --GASB--3X---GA2TE3--1-X AND --GASB--X---GATE--1-X SOLID SOLUTIONS 67-08 M15-75237
THE ANOMALOUS THERMAL CONDUCTIVITY OF DILUTE AG-MN ALLOYS AT HELIUM TEMPERATURES 67-10 M15-79026

THERMAL CYCLING
CHANGE IN THE MAGNETIC PROPERTIES OF NICKEL DURING THERMOMAGNETIC CYCLING 67-01 M15-57659
IMPLEMENTATION OF HIGH RELIABILITY OBJECTIVES OF SURVEYOR PRESSURE VESSELS 67-01 M17-58729
THERMOCYCLIC STABILIZING TREATMENT OF SILUMIN AL-ALLOY 67-02 M10-61231
EFFECT OF THERMAL CYCLING ON DIMENSIONAL STABILITY OF D16 AL ALLOY 67-02 M15-59769
INFLUENCE OF THERMAL CYCLING ON THE IRREVERSIBLE DIMENSIONAL CHANGES IN ALUMINIUM ALLOY VAD23 SHEET 67-02 M17-59885
EFFECT OF THE QUENCHING TEMPERATURE ON THE PROCESS OF PORE FORMATION DURING THERMAL CYCLING OF ALUMINUM 67-02 M17-59948
PRACTICAL TESTING OF STEELS IN EQUIPMENT CONSTRUCTION 67-02 M17-60019
RELAXATION TESTS WITH ALTERNATING TEMPERATURES 67-02 M17-60209
CHANGES IN THE HIGH-TEMPERATURE STRENGTH OF 18CR9NI STEEL AFTER CYCLE HEAT TREATMENT 67-02 M17-60297
CRACK PROPAGATION IN POLYCRYSTALLINE CHROMIUM DURING THERMAL CYCLING 67-02 M17-62236
EFFECTS OF SEVERAL FACTORS ON THERMAL FATIGUE 67-03 M17-65313
EFFECT OF HEAT CYCLING ON PROPERTIES AND STRUCTURE OF ALLOYS CONTAINING PHASES WITH VARIOUS COEFFICIENTS OF LINEAR EXPANSION 67-04 M10-67922
STABILIZATION OF SILUMIN BY THERMAL CYCLING 67-04 M10-68092
THERMAL CYCLE OF THE WELD-AFFECTED ZONE IN ELECTROSLAG WELDING OF ALUMINUM ALLOYS 67-04 M11-66806
ESTABLISHMENT OF ARC WELDING PROCEDURE OF STRUCTURAL STEELS 67-04 M11-67586
EFFECT OF THERMAL CYCLING ON THE TRANSFORMATION OF AUSTENITE IN MAGNESIUM CAST IRON 67-04 M14-66901
INVESTIGATION OF THE STRUCTURE OF SURFACE LAYERS AND THE THERMAL STABILITY OF CAST TURBINE BLADES IN STEADY AND NONSTEADY CONDITIONS OF HEATING 67-04 M15-66859
FRACTURE OF STEEL BILLETS DUE TO THERMAL STRESSES 67-04 M17-66099
EFFECT OF LOAD AND TEMPERATURE CYCLING ON CREEP RESISTANCE AND STRUCTURE OF ESSHETE 1250 67-04 M17-66730
THE INFLUENCE OF THE THERMAL CYCLE ON THE QUALITY OF RESISTANCE BUTT WELDS IN GREY IRON 67-05 M11-68263
EFFECT OF CYCLIC HEATING AND COOLING ON FRAGMENTED STRUCTURE OF ALUMINUM AND CADMIUM SINGLE CRYSTALS 67-05 M13-69665
STRUCTURAL VARIATIONS ON THE GAMMA-EPSILON-GAMMA TRANSFORMATIONS IN THE IRON-MANGANESE ALLOY G19 67-05 M14-68252
EFFECTS OF THERMAL CYCLING ON URANIUM CARBON ALLOYS 67-05 M14-68563
TEMPERATURE-MAGNETIC HYSTERESIS IN THE HIGH-COERCIVITY ALLOY CO-PT 67-05 M15-68259
INVESTIGATION OF CREEP AT VARIABLE TEMPERATURES 67-05 M17-69612
EFFECT OF CYCLICAL THERMOMAGNETIC TREATMENT IN THE CURIE POINT REGION ON THE PLASTIC PROPERTIES OF IRON AND STEEL 67-05 M17-69660
THERMAL STRESSES IN PLATES DURING INTERMITTENT HEAT CYCLING 67-06 M17-70298
SOME PROBLEMS OF CYCLIC HEAT RESISTANCE 67-06 M17-70746
THERMAL FATIGUE UNDER MULTIAXIAL THERMAL STRESSES IN THE CASE OF SPHEROIDAL GRAPHITE CAST IRON 67-06 M17-70817
INVESTIGATION OF THERMAL FATIGUE IN COMPLEX STRESS CONDITIONS 67-06 M17-70902
PARAMETERS OF THERMAL CONDITIONS, RIGIDITY OF LOADING AND THEIR EFFECT ON THE APPEARANCE OF PRIMARY AND SECONDARY PLASTIC DEFORMATIONS DURING THERMAL LOAD CYCLING OF A METAL 67-06 M17-70927
THE INFLUENCE OF THE TEMPERATURE CYCLE PARAMETERS ON THE PLASTIC DEFORMATION OF ALUMINIUM DURING THERMAL CYCLING 67-06 M17-71223
EFFECT OF THERMAL HARDENING ON THE TENSILE PROPERTIES OF AUSTENITIC STEELS 67-06 M17-72358
TEMPERATURE CYCLES OF INGOT MOLDS DURING USE. PT. 1. DETERMINATION OF TEMPERATURE CYCLES OF INGOT MOLDS MOUNTED ON BOGIES 67-07 M04-73329
THE CHANGE OF HARDNESS IN 18-8 STAINLESS STEEL DURING THERMAL FATIGUE 67-07 M17-72981
SOME EFFECTS OF TEMPERATURE CYCLING ON THE CREEP BEHAVIOR OF A NICKEL-BASE ALLOY 67-08 M10-75137
THE ABNORMALLY INTENSIVE DEVELOPMENT OF POROSITY IN AL-CU ALLOY 67-08 M10-75276
THE THERMAL CYCLE IN THE HEAT AFFECTED ZONE DURING THE ELECTROSLAG WELDING OF ALUMINIUM ALLOYS 67-08 M11-75910
EXOEMISSION IN GAMMA-TO-EPSILON AND EPSILON-TO-GAMMA TRANSFORMATIONS 67-08 M14-75263
HARDENING AND TEMPERATURE STABILITY OF STRUCTURAL CHANGES, CAUSED BY GAMMA-TO-EPSILON AND EPSILON-TO-GAMMA TRANSFORMATIONS IN FE-MN ALLOYS 67-08 M14-75264
CHANGE IN THE SHAPE OF METALS UNDER THE COMBINED ACTION OF THERMAL CYCLES AND EXTERNAL LOADS 67-08 M15-74879
LINEAR CHANGE IN BASIC BRICK UNDER CYCLED TEMPERATURES 67-08 M15-75523
THE EFFECT OF THERMAL CYCLES ON THE STABILITY OF THE SIZES OF THE D16 ALLOY 67-08 M15-76127
TENSION TESTS OF REINFORCING STEELS AT GRADUAL TEMPERATURE 67-08 M17-74622
EFFECT OF THERMAL CYCLING ON RESIDUAL STRESSES IN DIE STEEL 67-08 M17-75482
THE EFFECT OF PRELIMINARY CYCLICAL HEAT TREATMENT ON FATIGUE 67-08 M17-75887
DEVELOPMENT OF MGO HEAT EXCHANGE MEDIA 67-09 M05-77962
FUNDAMENTALS OF THERMOMECHANICAL TREATMENTS 67-10 M10-79210
THERMOMECHANICAL STRENGTHENING OF STEEL 67-10 M10-79211
CHANGE IN THE SHAPE OF METALS UNDER THE SIMULTANEOUS EFFECTS OF THERMAL CYCLING AND AN EXTERNAL LOAD 67-10 M17-79638
INFLUENCE OF THE WELDING HEAT CYCLE AND HEAT TREATMENT ON THE INTERCRYSTALLINE CORROSION SUSCEPTIBILITY OF EI847 STEEL 67-11 M11-80651

THERMAL DECOMPOSITION
SEE PYROLYSIS

THERMAL DIFFUSION
ANISOTROPY OF DIFFUSION OF COPPER-64 IN BERYLLIUM 67-03 M15-65257
THERMAL DIFFUSION IN THE UO2-CEO2 SYSTEM 67-04 M14-67455
THERMAL DIFFUSION OF VACANCIES IN ALUMINUM 67-06 M14-70412
THE ISOTOPE EFFECT IN THERMAL DIFFUSION IN SOLIDS 67-09 M14-76593
THERMAL TRANSPORT IN TUNGSTEN 67-09 M15-77843
THE THERMAL DIFFUSIVITY AND THERMAL CONDUCTIVITY OF METALS AT HIGH TEMPERATURES 67-10 M15-78346
RESEARCH INTO THE RELATIONSHIP OF THE THERMAL CONDUCTIVITY AND THERMAL DIFFUSIVITY OF TANTALUM AND NIOBIUM TO THE TEMPERATURE 67-10 M15-78950

THERMAL DIFFUSIVITY
THERMAL DIFFUSIVITY AND THERMAL CONDUCTIVITY OF METALLIC BERYLLIUM 67-01 M15-57634
EXPERIMENTAL STUDY OF THE THERMAL DIFFUSIVITY OF MOLDING MATERIALS 67-02 M15-59091
EFFECT OF ION DIFFUSION IN HEAT TREATMENT AND THERMOMAGNETIC TREATMENT ON MAGNETOCRYSTALLOGRAPHIC ANISOTROPY IN NICKEL-

COBALT FERRITE SINGLE CRYSTALS
67-02 M15-59933
TRANSIENT DETERMINATIONS OF THERMAL DIFFUSIVITIES AND DISSIPATIONS OF METAL FOILS
67-02 M15-61073
THE WIEDEMANN-FRANZ RATIO OF METALLIC URANIUM AT ELEVATED TEMPERATURES 67-03 M15-65869
THERMOTRANSPORT OF OXYGEN IN BETA ZIRCONIUM
67-04 M15-66055
THERMAL DIFFUSIVITY OF TUNGSTEN AT HIGH TEMPERATURES 67-06 M14-72042
A METHOD OF MEASURING THERMAL DIFFUSIVITY BY HEATING OF STEP FUNCTION CHANGE
67-06 M15-71557
THERMAL DIFFUSIVITY OF PLATINUM FROM 300 TO 1200 K
67-11 M14-81083
THERMAL PROPERTIES OF ARMCO IRON
67-11 M15-80122
SURFACE LATTICE DYNAMICS OF SILVER. PT. 2. LOW-ENERGY ELECTRON THERMAL DIFFUSE SCATTERING
67-11 M16-81481

THERMAL DIFFUSIVITY, ALLOYING EFFECTS
THERMAL DIFFUSIVITY AND ELECTRICAL CONDUCTIVITY OF ALLOYS OF THE COPPER-ANTIMONY SYSTEM IN THE LIQUID STATE 67-11 M15-80654

THERMAL DIFFUSIVITY, TEMPERATURE EFFECTS
INVESTIGATION OF TEMPERATURE DEPENDENCE OF THERMAL DIFFUSIVITY OF NIOBIUM AND TANTALUM
67-09 M14-76763

THERMAL EFFICIENCY
THEORETICAL CONSIDERATION ON COKE RATIO OF THE BLAST FURNACE OPERATION. PT. 1. STUDIES FOR THE IMPROVEMENT IN THE BLAST FURNACE PRACTICE
67-01 M04-58259
COMPARATIVE STUDY OF HOT AND COLD BLAST CUPOLA OPERATION 67-01 M06-57595
AN EVALUATION OF EXOTHERMIC HOT TOPS
67-05 M04-69065
THERMAL EFFICIENCY OF RISERS AND THE CASTING YIELD
67-05 M06-68726
CONVERSION OF OPENHEARTH FURNACES IN A TUBE ROLLING WORKS TO NATURAL GAS 67-06 M04-71246
HEAT ABSORPTION OF POOL AND THERMAL EFFICIENCY OF HIGH-CAPACITY OPENHEARTH FURNACE
67-06 M04-71267
METABOLISM OF THE CUPOLA 67-06 M06-70027
COMPARATIVE ASSESSMENT OF THE PRODUCTION PERFORMANCE OF BLAST FURNACES
67-07 M04-72562
ANALYSIS OF THE THERMAL PERFORMANCE OF BLAST FURNACES 67-07 M04-73080
COMPARATIVE ASSESSMENT OF THE PRODUCTION PERFORMANCE OF BLAST FURNACES
67-07 M04-73110
SPECIFIC HEAT ENERGY OF ARC IN SOME WELDING PROCESSES WITH CONSUMABLE ELECTRODES
67-07 M11-72732
BLAST FURNACE PERFORMANCE USING HIGH-ASH COKE
67-08 M04-74452
CONVERTING OPENHEARTH FURNACES AT CHELYABINSK TUBE ROLLING-MILLS TO RUN ON NATURAL GAS
67-08 M04-75715
HEAT ABSORBTION BY THE BATH AND THERMAL EFFICIENCY OF VERY LARGE OPENHEARTH FURNACES
67-08 M04-75736
INCREASING THE OUTPUT OF OPENHEARTH FURNACES BY IMPROVED MELTING PRACTICE 67-09 M04-78049
EFFECTIVE HEAT INPUT WHEN WELDING WITH A CONSUMABLE ELECTRODE 67-12 M11-82311

THERMAL EFFICIENCY, IMPURITY EFFECTS
IRON FOR STEELMAKING AT APPLEBY-FRODINGHAM
67-07 M04-72412

THERMAL EMF
SEE THERMOELECTRICITY

THERMAL ENDURANCE
SEE THERMAL RESISTANCE

THERMAL ETCHING
THE THERMAL ETCHING OF COPPER IN VACUO AT ELEVATED TEMPERATURES 67-03 M13-65691
CHANGE IN THE PROFILE OF THERMAL ETCH GROOVES ON THE GRAIN BOUNDARIES IN TRANSFORMER STEEL
67-04 M13-67851
THE THERMAL ETCHING FIGURES OF METAL MICROSECTIONS 67-05 M13-68250
THERMAL ETCHING OF BETA ALLOY OF THE TI-MO-FE-AL SYSTEM 67-06 M13-69989
THE CONNECTION BETWEEN THE SURFACE MORPHOLOGY OF SPECIMENS OF CHROMIUM STEELS SUBJECTED TO THERMAL ETCHING AND THEIR DISLOCATION STRUCTURE
67-06 M13-70342
TOPOGRAPHIC X-RAY INVESTIGATION OF THE SUBSTRUCTURE OF NONDEFORMED SUPERRAFFINAL IN COMBINATION WITH CHEMICAL AND THERMAL ETCHING 67-09 M13-78175
CRYSTALLOGRAPHIC ETCH FIGURES FROM THERMAL ETCHING
67-10 M13-79354

THERMAL EXPANSION
ARC WELDING THE EDGES --ENDS-- OF STEEL TUBES
67-01 M11-57525
THERMAL EXPANSION OF SOLID SOLUTIONS OF REFRACTORY METALS OF THE 4, 5, AND 6 GROUPS IN THE PERIODIC TABLE 67-01 M15-58081
COEFFICIENT OF LINEAR EXPANSION OF COMMERCIAL TITANIUM 67-01 M15-58100
APPLICATIONS OF REFRACTORY METALS IN INDUSTRIAL FUR
67-01 M20-58451
ARC HEATING OF THE ENDS OF STEEL TUBES
67-02 M11-61144
THERMAL-DILATION BEHAVIOR OF TITANIUM ALLOYS DURING REPEATED CYCLING THROUGH THE ALPHA-BETA TRANSFORMATION 67-02 M14-59432
SURFACE LATTICE DYNAMICS OF SILVER. PT. 1. LOW-ENERGY ELECTRON DEBYE-WALLER FACTOR
67-02 M14-60763
THERMAL AND ELECTRICAL PROPERTIES
67-02 M15-60704
HEAT CAPACITY OF ALPHA URANIUM FROM 1.7 TO 25 K
67-02 M15-60770
DIAMAGNETIC SUSCEPTIBILITY AND LINEAR THERMAL EXPANSION OF GRAPHITIZED CARBONS
67-02 M15-62130
TEMPERATURE DEPENDENCE OF ELASTIC CONSTANTS AND THERMAL EXPANSION FOR UO2 67-03 M15-65311
TEMPERATURE VARIATION OF THE GRUNEISEN PARAMETER OF COPPER 67-03 M15-65372
STUDY OF CERAMIC MATERIAL BY HIGH-TEMPERATURE X-RAY ANALYSIS 67-03 M19-65443
EFFECT OF HEAT CYCLING ON PROPERTIES AND STRUCTURE OF ALLOYS CONTAINING PHASES WITH VARIOUS COEFFICIENTS OF LINEAR EXPANSION
67-04 M10-67922
PREPARATION OF TITANIUM DISILICIDE SINGLE CRYSTALS
67-04 M14-66343
THERMAL EXPANSION AND ELASTIC PROPERTIES OF TWO-PHASE CERAMIC BODIES 67-05 M15-68611
DILATOMETRIC INVESTIGATIONS OF BINARY ALLOYS IN THE AL-ZN SYSTEMS 67-05 M15-69054
MEASUREMENT OF THE LINEAR EXPANSION COEFFICIENTS OF HEXAGONAL ZINC SULFIDE IN THE TEMPERATURE RANGE 78-290 K 67-05 M16-69400
SINTERING PROCESS AND THERMAL EXPANSION OF SILVER-GRAPHITE 67-06 M14-72069
PROPERTIES OF WO3 MODIFIED BY THE SUBSTITUTION OF MO AND CR 67-06 M15-70605
HIGH-TEMPERATURE THERMAL EXPANSION OF CERTAIN GROUP 4 AND GROUP 5 DIBORIDES 67-06 M15-71162
THE INFLUENCE OF THERMAL EXPANSION ON THE FRICTION AND WEAR PROCESS 67-06 M17-71032
DIMENSIONAL STABILITY AND THERMAL EXPANSION CHARACTERISTICS OF BERYLLIUM 67-07 M15-73756
ELECTRICAL RESISTIVITY, MAGNETIC SUSCEPTIBILITY, AND THERMAL EXPANSION OF THORIUM MONOCARBIDE
67-07 M15-74239
HIGH-TEMPERATURE BEARING MATERIALS
67-07 M20-74055
CONTROLLING DEFORMATION DURING TEMPERING
67-08 M10-75325
ON THE THERMAL EXPANSION OF WUSTITE
67-08 M15-74894
THERMAL EXPANSION OF SOLID SOLUTIONS OF METALS OF GROUPS VI, V AND IV OF THE PERIODIC SYSTEM WITH HIGH MELTING POINTS 67-08 M15-74995
THE PROPERTIES OF ELECTRODE GRAPHITE AND THEIR EFFECT ON THE USE OF ELECTRODES IN ARC FURNACES. PT. 1. THE TEMPERATURE DEPENDENCE OF VARIOUS PROPERTIES 67-08 M15-75111
HEAT EXPANSION OF INVAR ALLOYS AT LOW TEMPERATURES
67-08 M15-75284
LINEAR CHANGE IN BASIC BRICK UNDER CYCLED TEMPERATURES 67-08 M15-75523
AN APPARATUS FOR MEASURING THERMAL EXPANSION AT ELEVATED TEMPERATURES 67-08 M15-76156
THE SIGNIFICANCE OF THE ELASTICITY MODULUS, COMPRESSIVE STRENGTH AND THE EXPANSION OF REFRACTORY MATERIALS IN FURNACE AND OVEN DESIGN. PT. 1 67-08 M17-74560
INTERNAL STRESSES IN THIN FILMS
67-08 M17-74721
BEHAVIOR OF HIGH-FIRED BASIC BRICK IN SPRUNG ARCHES

THERMAL EXPANSION
67-09 M05-76455
PHYSICAL PROPERTIES OF ALPHA PLUTONIUM AND DELTA PU-PHASE ALLOYS AT LOW TEMPERATURES
67-09 M15-76311
THE BAND STRUCTURE, SPECIFIC HEAT, MAGNETIC SUSCEPTIBILITY, AND ANOMALOUS THERMAL EXPANSION OF DELTA PLUTONIUM 67-09 M15-76316
PREPARATION AND PROPERTIES OF SOME GROUPS V AND VI COMPOUNDS OF PLUTONIUM 67-09 M15-76343
PREPARATION AND STUDIES OF SOME PROPERTIES OF PLUTONIUM MONOCARBIDES 67-09 M15-76344
GRUNEISEN GAMMA FROM ELASTIC DATA
67-09 M15-77162
STUDY OF CERTAIN PHYSICAL PROPERTIES OF NI3AL-NI3NB ALLOYS 67-09 M15-77292
THE THERMAL EXPANSION AND THE TEMPERATURE CHANGE OF YOUNGS MODULUS OF SINGLE CRYSTALS OF HEXAGONAL COBALT 67-09 M17-77251
THE THERMAL EXPANSION OF GAMMA PHASE CU-MN ALLOYS AT HIGH TEMPERATURES 67-10 M15-78588
STUDY OF THERMAL EXPANSION OF ALLOYS OF THE NI3AL-NI3NB SYSTEM 67-10 M15-79833
AN AGE-HARDENABLE, LOW-EXPANSION ALLOY FOR CRYOGENIC SERVICE 67-10 M17-78489
THERMAL-EXPANSION COEFFICIENTS OF SELENIUM AND GALLIUM SELENIDE FROM X-RAY STRUCTURAL ANALYSIS DATA IN ASSOCIATION WITH THE CHEMICAL BOND
67-11 M13-80176
THERMAL EXPANSION OF SEMICONDUCTING ELEMENTS AND COMPOUNDS AT LOW TEMPERATURES
67-11 M15-80170
PHYSICAL PROPERTIES OF STEELS 67-11 M15-81399
PLASTIC YIELDING AND STRAIN DISTRIBUTION IN FILAMENT-REINFORCED METALS 67-11 M17-80679
IRREVERSIBLE THERMAL EXPANSION 67-11 M19-80361
FE-36 PER CENT NI WITH LOW THERMAL EXPANSION FOR CRYOGENIC APPLICATIONS 67-12 M01-83342
X-RAY STUDIES ON THE THERMAL EXPANSION OF COPPER-NICKEL ALLOYS 67-12 M15-81734
ELECTRICAL RESISTANCE AND THERMAL EXPANSION OF TI-NB-CR ALLOYS 67-12 M15-82422
THE STRUCTURE AND THERMAL EXPANSION OF SMALL PARTICLES OF COBALT 67-12 M15-83307
THE ELASTIC CONSTANTS OF MERCURY TELLURIDE
67-12 M17-82288
THERMAL EXPANSION, ALLOYING EFFECTS
EFFECTS OF NICKEL ON THE FORMATION OF SIGMA PHASE AND SOME CHANGES OF PROPERTIES IN 25 PER CENT CHROMIUM STEELS 67-02 M14-59978
FORMATION OF SIGMA PHASE IN FE-45 PER CENT CR ALLOYS AND EFFECTS OF MOLYBDENUM ADDITIONS ON ITS DILATOMETRIC PROPERTIES 67-02 M14-59979
EFFECT OF NI ON LOW NI-CR CAST IRON
67-09 M01-77248
THERMAL EXPANSION, ANISOTROPY
THERMAL EXPANSION AT LOW TEMPERATURES OF ANISOTROPIC METALS. INDIUM 67-12 M16-83403
THERMAL EXPANSION, COMPOSITION EFFECTS
SUPERCONDUCTING TRANSITIONS IN BODY-CENTERED CUBIC THALLIUM-INDIUM ALLOYS 67-05 M16-69520
EFFECT OF STOICHIOMETRY ON THE THERMAL EXPANSION OF TACX 67-12 M15-82996
THERMAL EXPANSION, RADIATION EFFECTS
THE ANNEALING OF IRRADIATION DAMAGE IN GRAPHITE
67-02 M15-59054
THERMAL EXPANSION, TEMPERATURE EFFECTS
A USEFUL RELATIONSHIP BETWEEN ATOMIC VIBRATION AMPLITUDES AND THERMAL EXPANSION FOR CUBIC SOLIDS
67-02 M15-59099
THERMAL EXPANSION AND ELASTIC CONSTANTS OF BETA PRIME PHASE AGMG. PT. 1. THE COEFFICIENT OF THERMAL EXPANSION FROM 77 TO 800 K
67-07 M15-72638
TUNGSTEN-CARBIDE SEAL HANDLES RANGE FROM MINUS 423 TO PLUS 800 F 67-07 M20-73616
THE NATURE OF THE K-STATE IN THE SYSTEM OF IRON AND ALUMINIUM 67-08 M15-74405
THERMAL EXPANSION, WELDING EFFECTS
RELATIONSHIP OF RESIDUAL STRESSES IN WELDING TO THE PHYSICO MECHANICAL PROPERTIES OF THE STEEL
67-11 M17-80551
THERMAL FATIGUE
THE STUDY OF THERMAL FATIGUE OF BEARING METALS LINING ON STEEL PLATES 67-01 M17-57588
A METHOD OF STUDYING DAMAGE IN THERMAL FATIGUE
67-02 M17-60670
THERMAL FATIGUE TESTING WITH HOLDINGS AT MAXIMUM TEMPERATURE OF CYCLE 67-02 M17-60671
THE THERMAL FATIGUE TESTING OF HEAT-RESISTING SHEET MATERIALS 67-02 M17-62114
EFFECTS OF SEVERAL FACTORS ON THERMAL FATIGUE
67-03 M17-65313
THERMAL LOADING DURING CYCLIC TESTING
67-03 M17-65605
STUDY OF HEAT RESISTANCE TO THERMAL CYCLIC FATIGUE IN REFRACTORY METALS BY AN INTERNAL FRICTION METHOD 67-04 M15-67833
PUSH-PULL LOW-ENDURANCE FATIGUE OF CAST IRONS AND STEELS 67-04 M17-66729
INVESTIGATION OF CREEP AT VARIABLE TEMPERATURES
67-05 M17-69612
THERMAL STRESSES IN PLATES DURING INTERMITTENT HEAT CYCLING 67-06 M17-70298
SOME PROBLEMS OF CYCLIC HEAT RESISTANCE
67-06 M17-70746
THERMAL FATIGUE UNDER MULTIAXIAL THERMAL STRESSES IN THE CASE OF SPHEROIDAL GRAPHITE CAST IRON
67-06 M17-70817
INVESTIGATION OF THERMAL FATIGUE IN COMPLEX STRESS CONDITIONS 67-06 M17-70902
PARAMETERS OF THERMAL CONDITIONS, RIGIDITY OF LOADING AND THEIR EFFECT ON THE APPEARANCE OF PRIMARY AND SECONDARY PLASTIC DEFORMATIONS DURING THERMAL LOAD CYCLING OF A METAL
67-06 M17-70927
STUDIES ON THE THERMAL FATIGUE UNDER CONDITIONS OF TRANSIENT TEMPERATURE GRADIENT IN CROSS-SECTION
67-06 M17-72070
THE CHANGE OF HARDNESS IN 18-8 STAINLESS STEEL DURING THERMAL FATIGUE 67-07 M17-72981
EFFECT OF MAXIMUM CYCLIC TEMPERATURE ON THE CONFIGURATION OF THE HYSTERESIS LOOP WHEN STUDYING THERMAL FATIGUE OF EI703 STEEL
67-07 M17-73034
METHOD OF STUDYING THE DAMAGE ASSOCIATED WITH THERMAL FATIGUE 67-07 M17-73106
THERMAL-FATIGUE TESTS INCLUDING HOLDING PERIODS AT THE MAXIMUM TEMPERATURE OF THE CYCLE
67-07 M17-73107
THEORETICAL DETERMINATION OF OPTIMUM THICKNESS OF COATINGS OF PERMANENT MOLDS IN CENTRIFUGAL CASTING OF PIPE BILLETS 67-08 M06-74591
EFFECT OF THE HOLDING TIME AT MAXIMUM TEMPERATURE ON THE THERMAL FATIGUE LIFE UNDER CONDITIONS OF TRANSIENT TEMPERATURE GRADIENT
67-08 M15-75132
THERMAL METHOD OF LOADING IN INTERMITTENT STATIC TESTING 67-08 M17-74530
THERMAL-FATIGUE TESTS OF RESTRAINED COMBUSTOR-COOLING TUBES 67-08 M17-75367
THE THERMAL FATIGUE OF DIE-CASTING DIES
67-08 M17-75749
EFFECTS OF HEATING RATE AND COOLING RATE ON THE THERMAL FATIGUE LIFE UNDER CONDITIONS OF TRANSIENT TEMPERATURE GRADIENT
67-10 M17-78656
THERMAL FATIGUE IN METALS WITH CLOSE-PACKED CUBIC LATTICES 67-10 M17-79738
A METHOD OF INVESTIGATING LOW-CYCLE THERMAL FATIGUE
67-11 M17-80415
THE THERMAL FATIGUE OF SPHEROIDAL GRAPHITE CAST IRON 67-12 M17-82601
THERMAL FLUX
SEE HEAT TRANSMISSION
THERMAL INSULATION
SEE REFLECTIVE INSULATION
THERMAL MEASUREMENTS
SEE ALSO HEAT MEASUREMENT
THE THERMAL CONDUCTIVITY OF PLATINUM BETWEEN 300 AND 1000 K 67-03 M15-65693
THE OPTICAL AND PHYSICAL PROPERTIES OF THE GAS CURRENTS IN BASIC OXYGEN-BLOWN CONVERTERS WITHIN THE VISIBLE PART OF THE SPECTRUM, AND THEIR CONNECTION WITH THE TECHNOLOGICAL PARAMETERS OF BLOWS 67-04 M04-67239
A HIGH-TEMPERATURE X-RAY DIFFRACTOMETER FOR OPERATION UP TO 2500 C 67-04 M13-66245
OPERATING EXPERIENCE WITH THE CONTINUOUS MEASUREMENT OF TEMPERATURE IN FERROUS MELTS WITH MODERN RADIATION THERMOMETERS
67-04 M19-67931
A COMPARATIVE STUDY OF THE A. S. T. M. THERMAL CONDUCTIVITY AND THE BLAKELEY-COBB APPARATUS AS INSTRUMENTS FOR ROUTINE MEASUREMENTS OF THERMAL CONDUCTIVITY OF REFRACTORIES 67-05 M15-68476
CONTINUOUS MEASUREMENT OF THE BATH TEMPERATURE IN OXYGEN CONVERTERS AND DATA DERIVED WITH RESPECT TO THE MELTING PROCESS 67-06 M04-70977

ENTHALPY, HEAT CAPACITY, AND HEAT OF FUSION OF ALUMINUM FROM 366 TO 1647 K 67-06 M15-70701
HIGH TEMPERATURE HEAT CONTENTS OF THREE ALPHA BRASS ALLOYS 67-06 M15-70952
MEASURING THE THERMAL CONDUCTIVITY COEFFICIENTS AT HIGH TEMPERATURES OF HEAT RESISTANT MATERIALS 67-06 M15-71827
RAPID CARBON ANALYSIS --LECO-- 67-06 M19-71390
SUBSTRATE-TEMPERATURE MEASUREMENT AND CONTROL 67-08 M19-74563
THE PROPERTIES OF ELECTRODE GRAPHITE AND THEIR EFFECT ON THE USE OF ELECTRODES IN THE ELECTRIC ARC FURNACE. PT. 2. TEMPERATURE DISTRIBUTION IN ELECTRODES USED IN ELECTRIC ARC FURNACES 67-08 M19-75112
MEASUREMENT OF THE THERMAL CONDUCTIVITY OF MANUFACTURED CARBON PRODUCTS 67-09 M03-77033
MEASUREMENT OF THOMSON HEAT IN METALLIC SYSTEMS 67-10 M15-79998
MEASUREMENT OF THERMAL PARAMETERS OF THIN FILMS AND PLANE-PARALLEL PLATES LOCATED ON A THERMALLY CONDUCTIVE BASE 67-11 M15-80607

THERMAL MEASUREMENTS, AUTOMATION
DIGITAL TEMPERATURE MEASUREMENTS WITH IMMERSION THERMOCOUPLES 67-08 M19-75114

THERMAL MEASUREMENTS, ERRORS
DEGREE OF ERROR IN MEASURING TEMPERATURE IN AUTOMATICALLY CONTROLLED HEATING 67-04 M10-67623

THERMAL POWER
SEE THERMOELECTRICITY

THERMAL PROPERTIES
SEE ALSO CALORIFIC VALUE
EMISSIVITY
HEAT OF ADSORPTION
HEAT OF FORMATION
HEAT OF FUSION
HEAT OF MIXING
HEAT OF REACTION
HEAT OF SOLUTION
HEAT OF SUBLIMATION
HEAT OF TRANSFORMATION
HEAT OF VAPORIZATION
MELTING POINTS
SOFTENING POINTS
SOLIDIFICATION POINT
SPECIFIC HEAT
SUBLIMATION PRESSURE
THERMAL CONDUCTIVITY
THERMAL DIFFUSIVITY
THERMAL EXPANSION
THERMAL RESISTANCE
THERMAL STABILITY
VAPOR PRESSURE
VOLATILITY

CERAMIC HEAT-RESISTING MATERIALS 67-01 M05-57984
HEAVY ELECTRODEPOSITION FOR THE ENGINEER. PT. 4. HARD CHROMIUM PLATING 67-01 M12-57558
THERMAL RELAXATION OF INDIUM FILMS ON INSULATING SUBSTRATES BETWEEN 4 AND 300 K 67-01 M15-57114
SOME COMMENTS ON HIGH-TEMPERATURE PROPERTY DETERMINATION 67-02 M15-60708
PHOTOCURRENT AND THERMAL RELEASE TIME STUDIES OF URANIUM DIOXIDE 67-02 M16-60512
THERMAL AND OPTICAL ENERGY GAPS IN PBTE 67-03 M16-65884
GRAPHITE MOLDS IN THE CONTINUOUS CASTING OF NONFERROUS METALS 67-05 M03-68925
BORON NITRIDE-- HIGH COST MATERIAL WITH A PROMISING FUTURE 67-05 M05-68426
THERMAL PROPERTIES 67-05 M15-68995
ANHARMONICITY IN NOBLE METALS--SOME THERMAL PROPERTIES 67-05 M15-69812
ELASTIC AND ALLIED MODELS FOR ENERGIES OF POINT DEFECTS 67-06 M13-69940
THE ELECTROTHERMAL TREATMENT OF STEELS IN MAGNETIC FIELDS 67-06 M17-71127
INVESTIGATION OF THE VARIATION IN PROPERTIES OF PERMANENT TAR-DOLOMITE LININGS IN A BASIC CONVERTER AS A FUNCTION OF OPERATING STRESSES 67-07 M04-73266
TEMPERATURE KEY TO MACHINING 67-08 M08-75530
HIGH-TENSILE STAINLESS STEEL VNL 1 67-08 M17-74539
COLUMBIUM ALLOYS 67-09 M17-77327
METALS REFERENCE BOOK. V. 3 67-10 M01-79104
PROPERTIES AND APPLICATIONS OF MODIFIED 12 PER CENT CR STEELS 67-10 M01-79487
ELECTRONS, NEUTRONS AND PROTONS IN ENGINEERING 67-11 M01-81101
STUDY OF THE THERMODYNAMIC PROPERTIES OF CERTAIN SEMICONDUCTING ALLOYS BY THE ELECTROMOTIVE-FORCE METHOD 67-11 M15-80159
THERMAL SIMULATION OF IN-REACTION MICROSTRUCTURES IN THO2-UO2 67-12 M13-82992
GRAPHITE. PROGRESS OF A BLACK ART 67-12 M15-82997

THERMAL RADIATION
SURVEY OF THERMAL-NEUTRON DAMAGE IN PURE METALS 67-08 M16-74661

THERMAL REDUCTION
SEE ALSO FLUIDIZED BED REDUCTION
HYL SPONGE IRON PROCESS
KRUPP RENN PROCESS

METALLOTHERMIC REDUCTION OF BERYLLIUM OXIDE 67-02 M03-59430
A STUDY OF THE REACTION TEMPERATURES OBTAINED DURING THE ISOTHERMAL REDUCTION OF IRON ORES 67-04 M03-66173
THE KINETICS OF HEMATITE REDUCTION BY PARTIALLY REFORMED NATURAL GAS 67-04 M03-66174
ALUMINOTHERMAL REDUCTION OF TITANIUM OXIDES 67-04 M03-66819
THERMODYNAMICS OF THE REDUCTION OF POTASSIUM CHLORIDE BY CALCIUM-SILICON 67-04 M03-67093
OPTIMUM CONDITIONS FOR PRODUCING FERROMOLYBDENUM 67-04 M04-66211
GMELINS HANDBOOK OF INORGANIC CHEMISTRY. THE METALLURGY OF IRON 67-04 M04-67222
GMELINS HANDBOOK OF INORGANIC CHEMISTRY. METALLURGY OF IRONS 67-04 M04-67223
LANTHANO- AND CERIO-THERMAL REDUCTION OF YTTERBIUM OXIDE 67-06 M03-69998
PHYSICOCHEMICAL CHARACTERISTICS OF THE THERMAL REDUCTION OF ALKALI ALUMINATES 67-08 M03-75019
ON LANTHANO-AND CERIUM-THERMAL REDUCTION OF THULIUM OXIDE 67-09 M03-76953
CARBOTHERMAL REDUCTION OF SODIUM AND POTASSIUM ALUMINATES AT NORMAL PRESSURE 67-09 M03-77045
LOSSES OF REDUCING AGENT WHEN MG AND CA ARE PRODUCED BY THE SILICOTHERMAL METHOD 67-09 M03-77047
PRODUCTS AND MECHANISM OF THERMAL DISSOCIATION OF MOLYBDENITE 67-09 M03-77058
THERMAL PROCESSES FOR THE PRODUCTION OF MAGNESIUM 67-09 M03-77530

THERMAL RESISTANCE
THE DEPENDENCE OF THE STABILITY OF THE SOLID SOLUTION OF ALLOY D16 ON THE CHEMICAL COMPOSITION 67-01 M14-58085
THERMAL STRESS AND LOW-CYCLE FATIGUE 67-01 M17-58701
INVESTIGATION OF THE HEAT RESISTANCE OF BRITTLE POWDERED-METAL MATERIALS 67-02 M17-59874
MAGNESITE-CHROMITE ROOF PIECES OF NTMK REFRACTORY PRODUCTION 67-03 M05-65910
RARE METALS AND THEIR ALLOYS AS MATERIALS FOR MODERN TECHNOLOGY 67-03 M17-65181
METALS WORKABLE AT HIGH TEMPERATURES AND UNDER STRONG PRESSURE--THEIR CHARACTERISTICS, USE AND APPLICATION TO PETROLEUM CHEMISTRY 67-04 M15-67295
A CERAMIC ALLOY FOR ELEVATED TEMPERATURE DUTY 67-04 M17-66850
PROBLEM OF DETERMINING THE WORKING CYCLES OF STEEL IN CONDITIONS OF LOAD AT HIGH TEMPERATURES 67-04 M17-67136
HEAT RESISTING PROPERTIES OF THIN IRON CASTINGS 67-04 M18-67113
MEEHANITE HS A VERSATILE HEAT RESISTANT MATERIAL 67-04 M20-66244
CHARACTERISTICS OF SILICON CARBIDE PRODUCED BY THERMAL DECOMPOSITION OF TRIMETHYLCHLOROSILANE 67-05 M05-69570
SHELL MOLD CASTINGS RESIST HEAT AND CORROSION 67-05 M06-68424
HEAT RESISTANT CERAMIC MATERIALS 67-06 M05-70225
APPLICABILITY OF SINTERED ALUMINIUM OXIDE AS A WEAR-RESISTING AND HEAT-RESISTING MATERIAL 67-06 M09-71705
LOW-ALLOY HEAT PROOF COPPER ALLOYS WITH HIGH ELECTRICAL CONDUCTIVITY 67-06 M15-69986
ON THE SELECTION OF ALLOYING ELEMENTS FOR THE

THERMAL RESISTANCE

PRODUCTION OF TITANIUM-BASE HEAT RESISTANT ALLOYS 67-06 M17-69990
TRENDS IN IRON AND STEEL PLANT REFRACTORIES 67-07 M05-73719
OXIDATION RESISTANCE OF ALLOYS BASED ON TUNGSTEN AND NIOBIUM SILICIDES 67-07 M15-73280
THE PLASTIC DEFORMATION OF ALNIFE ALLOYS ON THERMAL CYCLING 67-07 M17-73885
SPECIAL STEELS FOR HIGH-TEMPERATURE SERVICE 67-07 M17-74270
RESISTANCE OF REFRACTORIES IN HEAVY-AND MEDIUM-DUTY FURNACES WITH COMBINED USE OF OXYGEN 67-08 M05-74888
LINEAR CHANGE IN BASIC BRICK UNDER CYCLED TEMPERATURES 67-08 M15-75523
SURFACE PROPERTIES.. KEY TO CONTACT SELECTION 67-11 M20-80525
PERICLASE-SPINEL BRICK WITH HIGH THERMAL STRENGTH 67-12 M04-82638
ELEVATED TEMPERATURE PROPERTIES OF NICKEL ALLOY STEELS 67-12 M17-81807
THE NATURE OF THE HEAT PROOF PROPERTIES OF CHROMIUM-MANGANESE STEEL 67-12 M18-83033
APPLICATIONS OF TITANIUM IN SUPERSONIC AIRCRAFT 67-12 M20-82301
STUDY ON AL2O3 DISPERSION HARDENED ALUMINUM USED FOR NUCLEAR APPLICATIONS 67-12 M20-82809

THERMAL RESISTANCE, ALLOYING EFFECTS
INFLUENCE OF ADDING CERIUM ALLOY MM5 ON THE PROPERTIES OF HEAT-RESISTING ALUMINIUM-SILICON CAST IRONS 67-02 M17-61199
THE EFFECT OF MOLYBDENUM ON THE HEAT RESISTANCE OF CR-MOV STEELS WITH A LOW CARBON CONTENT 67-04 M15-66020

THERMAL RESISTANCE, COMPOSITION EFFECTS
EFFECT OF THE SILICATE CONSTITUTION OF MAGNESITE BRICKS ON THE HIGH-TEMPERATURE STRENGTH 67-06 M17-70604

THERMAL RESISTANCE, COOLING EFFECTS
THE THERMAL RESISTANCE OF STEELS AND PRACTICAL PROBLEMS OF HEATING AND COOLING THEM 67-05 M15-69442

THERMAL RESISTIVITY
SEE THERMAL CONDUCTIVITY

THERMAL SHOCK
THE DEVELOPMENT AND EVALUATION OF HYPEREUTECTIC CARBIDES 67-02 M05-60712
STUDY OF THE HEMATITE-BONDING MECHANISM IN IRON-ORE PELLETS 67-07 M17-72570
PARAMETERS AFFECTING LASER WELDING 67-12 M11-82801

THERMAL SHOCK RESISTANCE
SEE SHOCK RESISTANCE
THERMAL RESISTANCE

THERMAL SPIKES
SEE SPIKES /LATTICE DEFECTS/

THERMAL STABILITY
EFFECT OF THE MAGNETIC FIELD ON THE METASTABILITY OF CEMENTITE IN WHITE CAST IRON 67-01 M14-57134
BEHAVIOR OF 9 PER CENT NICKEL STEEL IN REACTOR ENVIRONMENT 67-01 M17-58350
UNIFORMLY HEATED BIMETALLIC STRIPS 67-02 M01-60988
THERMAL STABILITY OF CERAMIC COATINGS DEPOSITED ON METALS 67-02 M12-59607
THE URANIUM-CARBON-NITROGEN SYSTEM 67-02 M15-60617
THERMAL STABILITY OF TUNGSTEN CARBIDE--COBALT ALLOYS 67-02 M17-59612
EFFECT OF THERMAL FATIGUE ON THE LIFE OF MATERIALS 67-02 M17-59641
OXIDATION-RESISTANT GRAPHITE-BASE COMPOSITES 67-02 M17-60714
PROSPECTS OF RAISING THE HIGH-TEMPERATURE STRENGTH OF MATERIALS ON THE BASIS OF REFRACTORY METALS 67-02 M17-62179
STRUCTURAL-KINETIC INVESTIGATION OF OXIDIZABILITY OF TITANIUM ALLOYS 67-02 M18-59644
HIGH-REFRACTORY MATERIALS BASED ON ZRO2, STABILIZED BY OXIDES OF RARE EARTH METALS 67-03 M05-65913
HIGH-DENSITY REFRACTORIES FOR BLAST FURNACE MADE OF KAOLINE FROM THE NOVOSELITSK DEPOSITS 67-04 M05-66584
CERAMIC-METAL COMPOSITES 67-04 M09-66280
METHODS FOR IMPROVING THERMAL STABILITY OF HOT PRESSED ZIRCONIA 67-04 M09-66586
PREVENTION OF GROWTH OF DISPERSE PARTICLES IN NICKEL 67-04 M10-67340
INVESTIGATION OF THE STRUCTURE OF SURFACE LAYERS AND THE THERMAL STABILITY OF CAST TURBINE BLADES IN STEADY AND NONSTEADY CONDITIONS OF HEATING 67-04 M15-66859
METALS WORKABLE AT HIGH TEMPERATURES AND UNDER STRONG PRESSURE--THEIR CHARACTERISTICS, USE AND APPLICATION TO PETROLEUM CHEMISTRY 67-04 M15-67295
AIRCRAFT JET TURBINE BLADES INVESTIGATED BY THE INTERNAL FRICTION METHOD 67-04 M15-67858
INFLUENCE OF STABILIZING ADDITIONS ON THERMAL STABILITY OF ZIRCONIA PARTS 67-06 M15-70566
AFTER BORON, GRAPHITE 67-06 M15-71744
A MODEL STUDY OF TEMPERATURE STRAINS IN MOLD WALLS 67-06 M17-70273
THE RESEARCH BACKGROUND OF THE THERMALLOY GRADES OF CHROMIUM-NICKEL-IRON HEAT-RESISTING ALLOYS 67-06 M17-70529
THE BEHAVIOR OF 9 PER CENT NICKEL STEEL IN A REACTOR ENVIRONMENT 67-06 M17-71682
EVALUATION OF SILICIDE COATINGS ON COLUMBIUM AND TANTALUM AND A MEANS FOR IMPROVING THEIR OXIDATION RESISTANCE 67-06 M18-69926
PROBLEMS WITH TURBINE AND GENERATOR MATERIALS 67-06 M20-70726
RUNNER BRICK WITH HIGH THERMAL RESISTANCE 67-07 M05-72614
REGULARITIES OF THERMAL STABILITY OF OXIDES OF TRANSITION METALS 67-07 M15-72511
DIMENSIONAL STABILITY AND THERMAL EXPANSION CHARACTERISTICS OF BERYLLIUM 67-07 M15-73756
VACUUM THERMIONIC WORK FUNCTIONS AND THERMAL STABILITY OF TAB2, ZRC, MO2C, MOSI2, TASI2 AND WSI2 67-08 M16-75125
PROSPECTS OF RAISING THE HEAT RESISTANCE OF MATERIALS BASED ON REFRACTORY METALS 67-08 M17-75955
THERMAL SHOCK RESISTANCE OF CERAMIC COATINGS ON METALS 67-09 M12-76925
THERMAL SHOCK RESISTANCE OF TUNGSTEN CARBIDE-COBALT ALLOYS 67-09 M15-76930
STABILITY OF COMMERCIAL SILICON NITRIDE WHEN HEATED IN AIR AND IN CARBON MONOXIDE 67-10 M05-79579
RESEARCH INTO PERMANENT THERMAL CHANGES IN PERMALLOYS 67-10 M15-78958
RESEARCH INTO THE EROSION-RESISTANCE, HARDENABILITY AND HEAT RESISTANCE OF 4KH5V2FS AND 3KH2V8 STEELS 67-10 M17-78979
REGULARITIES GOVERNING THE THERMAL STABILITY OF OXIDES OF THE TRANSITION METALS 67-11 M15-80897
THE STRUCTURAL STABILITY, GROWTH AND SCALING PROPERTIES OF AUSTENITIC CAST IRONS AT TEMPERATURES UP TO 800 C 67-11 M17-80405
THERMAL STABILITY OF LATTICE DEFECTS IN NICKEL AND ITS SOLID SOLUTIONS 67-11 M17-81426

THERMAL STABILITY, ALLOYING EFFECTS
EFFECT OF ALLOYING ON THE STABILITY OF THE STRUCTURE OF THE COMPOUND CD3SB2 IN ALLOYS IN THE CD-SB SYSTEM 67-02 M14-58982
STEELS FOR PIPES OF FURNACES FOR PYROLYSIS OF GASEOUS HYDROCARBONS 67-05 M17-68363
EFFECT OF MICROALLOYING WITH RARE EARTH ON THE STABILITY OF THERMAL STRENGTHENING OF STEEL 67-07 M10-73789
PROPERTIES OF ALLOYED NI-BE ALLOYS 67-08 M17-74984
EFFECT OF MICROALLOYING WITH RARE METALS ON STABILITY OF THERMOMECHANICAL HARDENING OF STEEL 67-09 M04-76552

THERMAL STABILITY, COMPOSITION EFFECTS
TINY PARTICLES TURN METALS INTO SUPERPERFORMERS 67-01 M01-58473
VARIATIONS IN SOME PROPERTIES OF SINTERED TUNGSTEN CARBIDE-COBALT ALLOYS WITH PARTICLE SIZE AND BINDER COMPOSITION 67-01 M15-58743

THERMAL STABILITY, COOLING EFFECTS
DEFORMATION OF STEEL DURING QUENCHING 67-08 M10-76104

THERMAL STABILITY, RADIATION EFFECTS
THE ANNEALING OF IRRADIATION DAMAGE IN GRAPHITE 67-02 M15-59054

THERMAL STRESSES
THERMAL STRESS AND LOW-CYCLE FATIGUE 67-01 M17-58701
DEFORMATION OF HIGH-SPEED STEELS DURING QUENCHING.

INDEFORMABLE HIGH-SPEED STEELS
67-05 M17-69195
CHOICE OF SHEET INGOT CASTING SPEEDS FOR KILLED STEEL 67-06 M06-70738
EFFECTS OF THERMAL STRAINING DURING WELDING ON THE FRACTURE TOUGHNESS OF A MILD STEEL
67-06 M17-70860
PHOTOELASTIC SIMULATION OF MOLDS
67-08 M06-76270
EFFECT OF THERMAL CYCLING ON RESIDUAL STRESSES IN DIE STEEL 67-08 M17-75482
ANALYSIS OF RESIDUAL, THERMAL, AND LOADING STRESSES IN A B33 WHEEL AND THEIR RELATIONSHIP TO FATIGUE DAMAGE 67-09 M17-76460
PHOTOELASTIC MODELLING OF INGOT MOULDS
67-10 M06-79263

THERMIONIC CONVERTERS
SEE THERMIONIC GENERATORS

THERMIONIC EMISSION
THERMIONIC EMISSION FROM RHENIUM
67-05 M16-68399
WORK FUNCTION OF METALS 67-06 M16-70492
INFLUENCE OF INTERELECTRODE DISTANCE ON THE OPERATION OF A CESIUM THERMIONIC CONVERTER
67-06 M16-70494
PREPARATION AND PHYSICAL PROPERTIES OF ALLOYS OF THE W-LAB6 SYSTEM 67-07 M15-73271
VACUUM THERMIONIC WORK FUNCTIONS AND THERMAL STABILITY OF TAB2, ZRC, MO2C, MOSI2, TASI2 AND WSI2 67-08 M16-75125
THERMIONIC PROPERTIES OF TUNGSTEN IN IODIDE VAPORS
67-09 M16-76481
ELECTRON AND ION EMISSION FROM A COPPER SURFACE IN THE PRESENCE OF OXYGEN, CESIUM AND OXYGEN PLUS CESIUM 67-09 M16-76484
THERMIONIC ELECTRON EMITTERS BASED ON THE ALLOYS OF RARE-EARTH METALS 67-09 M20-76663
THERMIONIC WORK FUNCTION OF POLYCRYSTALLINE RUTHENIUM 67-10 M15-79568

THERMIONIC EMISSION, TEMPERATURE EFFECTS
CHARACTER OF INTERACTION OF ZIRCONIUM CARBIDE WITH CESIUM VAPOR 67-09 M16-76764

THERMIONIC GENERATORS
INFLUENCE OF INTERELECTRODE DISTANCE ON THE OPERATION OF A CESIUM THERMIONIC CONVERTER
67-06 M16-70494

THERMIONIC GENERATORS, BRAZING
REFRACTORY METALS BRAZED FOR OPERATION AT 2200 F
67-06 M11-72254

THERMIONIC TUBES
SEE ALSO KLYSTRONS
TRAVELING WAVE TUBES

THERMIONIC TUBES, MATERIALS
KOVAR 61--AN ALLOY FOR SOLDERING WITH CZECHOSLOVAKIAN CERAMICS 67-02 M11-58869

THERMISTORS
B10/B11 THERMISTOR PAIRS AND THEIR APPLICATION
67-01 M16-58425
ROLE OF PURPOSELY PRODUCED ALTERNATIONS OF CRYSTAL STRUCTURE IN THE MANUFACTURE OF CERAMIC PRODUCTS
67-05 M15-68813
PRACTICAL ASPECTS OF TEMPERATURE CONTROL IN HEAT TREATMENT OPERATIONS. PT. 6 67-12 M19-82355

THERMISTORS, ELECTRICAL PROPERTIES
NONLINEAR RESISTANCES 67-03 M16-65724

THERMIT
SEE THERMIT WELDING

THERMIT WELDING
ALUMINOTHERMITE REINFORCING WELDING--A NEW HIGH-PRODUCTION RATE PROCESS 67-04 M11-67796
THERMOCRUCIBLE WELDING CONNECTIONS TO EARTHING DEVICES 67-04 M11-67937
METHOD AND DEVICE FOR JOINING SECTOR ALUMINUM CABLES AND SINGLE ROUND ALUMINUM CABLES BY THERMIT WELDING 67-06 M11-70376
THERMIT CRUCIBLE WELDING OF ELECTRIC GROUNDING WIRES TO METAL STRUCTURES 67-06 M11-70749
ALUMINO-THERMIC WELDING OF REINFORCING BARS
67-11 M11-80351

THERMOANALYSIS
SEE THERMAL ANALYSIS

THERMOCHEMISTRY
THE THERMOCHEMISTRY OF MN3SI 67-02 M15-59892
EFFECT OF OXYGEN LANCES ON THERMOCHEMISTRY OF OPEN HEARTH PROCESS 67-03 M04-65501
FUEL PRACTICE IN HIGH-OXYGEN OPEN HEARTH FURNACES
67-03 M04-65525
THERMOCHEMISTRY OF METAL-REFRACTORY INTERACTIONS
67-04 M15-66129
HIGH-TEMPERATURE CHEMISTRY OF SILICATES AND OTHER OXIDE SYSTEMS 67-04 M15-66278
ON THE REACTION HEAT OF OXIDATION OR REDUCTION OF IRON ORES IN THE PROCESS OF SINTERING
67-05 M04-69478
CERAMIC THERMOCHEMISTRY 67-05 M15-69139
SULPHUR POTENTIALS IN IRON AND IN IRON-MANGANESE ALLOYS 67-06 M14-70805
THE COMPATIBILITY OF GRAPHITE WITH CESIUM
67-06 M14-71056
THERMOCHEMICAL INVESTIGATIONS ON THE SYSTEM NAF-ALF3 67-07 M15-73879
THERMOCHEMISTRY OF FE-C ALLOYS IN SOLID AND LIQUID STATES 67-08 M15-75866
THE ANOMALOUS CHANGE IN VOLUME OF THE MIXED CRYSTAL SERIES --FE, CR--3C AND ITS SPECIFIC THERMOCHEMICAL AND MAGNETIC BEHAVIOR
67-09 M15-77197
STUDIES OF CONDENSED-PHASE MICROSPECIMENS AT HIGH TEMPERATURES OBTAINED WITH INTENSE THERMAL PULSES
67-09 M19-77503
INORGANIC CHEMISTRY. A GUIDE TO ADVANCED STUDY
67-10 M01-79615
CHEMICAL EXTRACTION FROM THE GAS PHASE--THE METHOD AND AN APPLICATION 67-10 M12-79486
THE THERMODYNAMIC STABILITY OF METALLIC PHASES
67-11 M15-81105
STUDY OF THE CORRELATION BETWEEN THE LIQUIDUS OF EQUILIBRIUM DIAGRAMS OF PHASES OF BINARY METALLIC SYSTEMS AND THE THERMOCHEMICAL DATA CONCERNING THE LIQUID STATE 67-12 M13-82472

THERMOCOUPLE PYROMETERS
CONTINUOUS TEMPERATURE MEASUREMENTS OF MOLTEN OPENHEARTH STEEL 67-06 M04-70180

THERMOCOUPLES
NEW ELECTRICAL FURNACES FOR REHEATING SLAB
67-02 M07-59818
GOLD CONDUCTORS, RESISTORS, AND THERMO-COUPLES
67-02 M15-58920
INFLUENCE OF THE LEG SIZE AND MECHANICAL SURFACE TREATMENT ON THE THERMOELECTRIC PROPERTIES OF THERMOCOUPLES OF SB2TE3/BI2TE3 AND BI2TE3/BI2SE3
67-02 M16-60126
THE MEASUREMENT OF TEMPERATURES AND ITS PRACTICE IN HEAT TREATMENT 67-02 M19-59806
DETERMINING ERROR IN MEASURING TEMPERATURE OF METAL IN A BOTTOM-BLOWN CONVERTER
67-03 M04-65959
SURVEY OF THERMOCOUPLES 67-03 M20-65626
LOW TEMPERATURE THERMOELECTRIC POWER OF GOLD-IRON VERSUS SILVER NORMAL THERMOCOUPLES
67-03 M20-65739
INVESTIGATING HOT-BLAST STOVES FOR A BLAST FURNACE 2000 M3 IN VOLUME 67-04 M04-67771
THE SELECTION AND USE OF PYROMETER SHEATHS
67-05 M20-68721
A RHODIUM-PLATINUM THERMOCOUPLE FOR HIGH TEMPERATURES 67-05 M20-69286
A RHODIUM-PLATINUM THERMOCOUPLE FOR HIGH TEMPERATURES 67-05 M20-69732
CONTINUOUS MEASUREMENT OF THE BATH TEMPERATURE IN OXYGEN CONVERTERS AND DATA DERIVED WITH RESPECT TO THE MELTING PROCESS 67-06 M04-70977
CONTINUOUS THERMOCOUPLE MONITORING OF LD FURNACE BATH TEMPERATURE 67-06 M04-72076
MEASUREMENT OF CYCLIC TEMPERATURE CHANGE OF TOOL-CHIP INTERFACE IN CARBIDE FLY MILLING
67-06 M08-72265
PRACTICAL ASPECTS OF THE TEMPERATURE CONTROL IN HEAT TREATMENT PROCESSES. PT. 4
67-06 M20-70830
MEASUREMENT OF THE TRUE TEMPERATURE BY MEANS OF RADIATION PYROMETERS AND DETERMINATION OF THE EMISSIVITY IN STEEL MELTS 67-07 M19-73286
THE MATERIALS SELECTION PROBLEM AS RELATED TO THERMOCOUPLES USED TO MEASURE NUCLEAR REACTOR FUEL PIN TEMPERATURES UP TO 2800 C
67-07 M20-73131
THE STABILITY OF THE THERMO-EMF/TEMPERATURE CHARACTERISTICS OF NICKEL-BASE THERMOCOUPLES
67-08 M19-74513
TUNGSTEN-RHENIUM THERMOCOUPLES FOR USE AT HIGH TEMPERATURES 67-10 M19-79995

THERMOCOUPLES, COATINGS
MEASURING TEMPERATURES IN HEAT TREATING
67-02 M19-60862

THERMOCOUPLES, CORROSION
OBSERVATIONS OF ZINC ATTACK ON STEEL PANS AND THERMOCOUPLE TUBES IN GAS FIRED WIRE GALVANIZING

THERMOCOUPLES

FURNACES 67-06 M18-71593
THERMOCOUPLES, ELECTRICAL PROPERTIES
QUALITY AND THERMOELECTRIC DEVIATION OF EXISTING THERMOCOUPLES 67-01 M15-57612
THERMOCOUPLES, MATERIALS
ELECTRIC INSULATION TUBE OF BORON CARBONITRIDE FOR PROTECTION OF METAL THERMOCOUPLES 67-06 M09-70970
TINY THERMOCOUPLES 67-06 M20-71151
HIGH-TEMPERATURE THERMOCOUPLE ELEMENTS OF GE-SI MIXED CRYSTALS FOR THERMAL GENERATORS 67-07 M20-74023
THERMOCOUPLES, PHYSICAL PROPERTIES
DILUTE GOLD-IRON THERMOELEMENTS IN LOW-TEMPERATURE THERMOCOUPLES 67-01 M15-57632
THERMOCOUPLES, SERVICE TIME
PROTECTION TUBES AND HIGH-TEMPERATURE THERMOCOUPLES WITH SILICON-CARBIDE THERMOELECTRODES 67-02 M09-61786
THERMOCOUPLES, STRUCTURAL MATERIALS
THERMOELECTRIC PROPERTIES OF VANADIUM 67-10 M15-78343
THERMOCOUPLES, WEAR
TIPS OF THERMOCOUPLES USED TO MEASURE MOLTEN ALUMINUM TEMPERATURES 67-04 M19-67528
THERMOCYCLING
SEE THERMAL CYCLING
THERMODYNAMIC PROPERTIES
SEE THERMODYNAMICS
THERMODYNAMICS
ON THE CAUSES OF TIN LOSSES IN SLAGS 67-01 M03-57272
THERMODYNAMIC STUDY ON CAST IRON INOCULATION 67-01 M06-57284
THE RELATIONSHIP BETWEEN INTERACTION PARAMETERS IN LIQUID IRON AND THOSE IN GAMMA-IRON 67-01 M14-58335
THERMODYNAMIC ASPECTS OF THE TEMPERATURE-PRESSURE PHASE DIAGRAM OF INTE 67-01 M15-57115
THERMODYNAMIC PROPERTIES OF COBALT ALLOYS 67-01 M15-57172
HEAT OF FORMATION OF PB-TEO3 67-01 M15-57302
THERMODYNAMICS OF THE SODIUM-HEAT REDUCTION OF TITANIUM TETRACHLORIDE IN A SODIUM CHLORIDE MELT 67-01 M15-57306
THERMODYNAMICS OF DILUTE SOLUTIONS OF PLUTONIUM IN LIQUID MAGNESIUM 67-01 M15-57405
QUASI-THERMODYNAMIC CALCULATION OF VACANCIES IN FCC METALS 67-01 M15-57418
THERMODYNAMIC CHARACTERISTICS OF THE THALLIUM-TELLURIUM SYSTEM 67-01 M15-58000
THE ACTIVITY OF OXYGEN IN THE LIQUID FE-PT ALLOY SYSTEM 67-01 M15-58469
THERMOCHEMICAL PROPERTIES. PT. 1 67-01 M15-58504
THERMODYNAMICS OF DIFFUSION CHROMIZING OF IRON 67-02 M12-62244
THE NATURE OF INTERACTION BETWEEN COMPONENTS IN THE GAMMA AND GAMMA PRIME PHASE OF THE NI-AL, NI-AL-CR, NI-AL-CO AND NI-AL-FE SYSTEMS 67-02 M14-58983
THERMAL DECOMPOSITION OF PYRITES 67-02 M14-59535
CHEMISTRY AT HIGH TEMPERATURES.. THE PROBLEM OF REDUCING CHEMICAL ATTACK 67-02 M14-60703
ELECTROMOTIVE-FORCE AND CALORIMETRIC STUDIES OF THERMODYNAMIC PROPERTIES OF SOLID AND LIQUID SILVER-TIN ALLOYS 67-02 M15-59421
THERMODYNAMICS OF CERTAIN REFRACTORY COMPOUNDS 67-02 M15-59601
VAPOR PRESSURE MEASUREMENTS ON BISMUTH-SELENIUM ALLOYS 67-02 M15-59990
THERMODYNAMICS OF CERTAIN REFRACTORY COMPOUNDS. V 2 67-02 M15-60001
THE THERMODYNAMIC STABILITY OF MONOCARBIDES OF TRANSITION METALS FROM SUBGROUPS 4-5 67-02 M15-60580
THERMODYNAMIC DATA ON REDUCTION OF IRON FROM FERRO-MONTICELLITE 67-02 M15-61218
THERMODYNAMIC PROPERTIES OF LIQUID SOLUTIONS OF THE ALUMINUM-TIN SYSTEM 67-02 M15-61715
THERMODYNAMIC PROPERTIES OF SOLID SOLUTION ALLOYS OF IRON AND CARBON WITH MANGANESE, SILICON, CHROMIUM OR NICKEL 67-02 M15-61734
THERMODYNAMIC PROPERTIES OF MGCL2 IN CHLORIDE MELTS 67-03 M03-65580
CALCULATING THE MAXIMUM CONCENTRATION OF GERMANIUM AND SILICON SOLID SOLUTIONS ON A SOLIDUS CURVE 67-03 M14-65588
THERMODYNAMIC PROPERTIES OF COPPER-PLATINUM ALLOYS 67-03 M15-65098
THERMODYNAMICS OF SHOCK COMPRESSION OF METALS 67-03 M15-65120
INVESTIGATIONS OF THE HALL EFFECT AND ELECTRICAL CONDUCTIVITY IN A SILVER-PALLADIUM SOLID SOLUTION 67-03 M16-65065
HYDROGEN ATTACK OF STEEL UNDER DYNAMIC EXPOSURE CONDITIONS 67-03 M18-65405
COMBUSTION IN FLUIDIZED BEDS 67-04 M02-67225
THE KINETICS OF HEMATITE REDUCTION BY PARTIALLY REFORMED NATURAL GAS 67-04 M03-66174
THERMODYNAMIC INVESTIGATIONS ON LIQUID AND SOLID MERCURY-INDIUM ALLOYS 67-04 M15-66542
THERMODYNAMICS OF MNSI1.70 ALLOY 67-04 M15-67601
INFLUENCE OF PRESSURE ON THE HEAT CAPACITY OF METALS 67-04 M15-68010
THERMODYNAMIC PROPERTIES OF THIN SUPERCONDUCTING FILMS 67-04 M16-66479
A THERMODYNAMIC STUDY OF SOLID IRON-GOLD AND COBALT-GOLD ALLOYS BY THE USE OF SOLID OXIDE ELECTROLYTES 67-05 M13-68693
HIGH-TEMPERATURE CHEMICAL STABILITY 67-05 M15-68996
THERMODYNAMICS OF VAPORIZATION OF THALLIC OXIDE 67-05 M15-69596
ANALYSIS AND EVALUATION OF MOLECULAR CONSTANTS OF BIATOMIC MOLECULES OF CHALCO-GENIDES OF THE V GROUP 67-05 M16-68956
CERTAIN QUESTIONS IN THE THERMODYNAMICS OF THE OXIDATION REACTION IN THE CONVERTER BATH 67-06 M04-70270
CALCULATION OF THERMODYNAMIC PROPERTIES OF SOME CARBIDES AND NITRIDES 67-06 M09-71466
THERMOKINETICS OF PROCESSES AT THE INTERFACE OF THE SOLID AND GASEOUS PHASES OF ALLOYS 67-06 M14-70979
LIQUID-VAPOR PHASE DIAGRAM AND THERMODYNAMICS OF THE SODIUM-BISMUTH SYSTEM 67-06 M14-72196
THERMODYNAMIC PROPERTIES OF THE GAMMA PHASE OF THE URANIUM-ZIRCONIUM SYSTEM 67-06 M15-70946
ON THE ENTROPY OF HYSTERETIC SUPERCONDUCTING STATES 67-06 M16-70466
EVIDENCE FOR THERMODYNAMIC FLUCTUATIONS IN A SUPERCONDUCTOR 67-06 M16-70639
PHYSICAL CHEMISTRY FOR METALLURGISTS 67-07 M01-72889
THE THERMODYNAMIC PROCESSES INVOLVED IN EXPLOSION WELDING 67-07 M11-73716
HIGH-TEMPERATURE VAPORIZATION AND THERMODYNAMICS OF TITANIUM OXIDES. PT. 1. VAPORIZATION CHARACTERISTICS OF THE CRYSTALLINE PHASES 67-07 M14-74215
DEPARTURES FROM LINEARITY IN ARRHENIUS PLOTS OF VACANCY CONCENTRATION 67-07 M15-73912
COMPRESSION OF MERCURY AT HIGH PRESSURE 67-07 M15-74216
THE APPLICATION OF STRAIN-RATE CYCLING DATA TO THERMALLY ACTIVATED DEFORMATION 67-07 M17-73914
KINETIC STUDY OF HIGH-TEMPERATURE OXIDATION OF HF 67-08 M14-75295
THERMODYNAMIC CALCULATION OF EQUILIBRIA IN THE SYSTEM CARBIDE-OXYGEN 67-08 M15-74310
USE OF THEMAL CONDUCTIVITY GAS ANALYSIS FOR THERMODYNAMIC MEASUREMENTS ON THE DISSOCIATION OF CUO, MN2O3 AND MNO2 67-08 M15-76055
CONDUCTION HEAT TRANSFER 67-08 M15-76073
A THERMODYNAMIC STUDY OF SOLID IRON-GOLD AND COBALT-GOLD ALLOYS BY THE USE OF SOLID OXIDE ELECTROLYTES 67-08 M15-76208
THERMODYNAMIC AND PHASE STUDIES FOR PLUTONIUM AND URANIUM-PLUTONIUM OXIDES WITH APPLICATION TO COMPATIBILITY CALCULATIONS 67-09 M14-76349
THERMODYNAMIC PROPERTIES OF SOLID SOLUTIONS OF THE MANGANESE-COBALT SYSTEM 67-09 M15-77293
THERMODYNAMICS OF BINARY FE-C AUSTENITE AND CEMENTITE 67-09 M15-77714
THERMODYNAMICS OF BINARY METALLIC SOLUTIONS 67-09 M15-77726
THERMODYNAMICS OF TERNARY METALLIC SOLUTIONS 67-09 M15-77727
THERMODYNAMICS OF PYRRHOTITE IN THE TEMPERATURE RANGE OF 800 TO 1100 C 67-09 M15-77993
ROASTING IN EXTRACTIVE METALLURGY--A THERMODYNAMIC AND KINETIC REVIEW 67-10 M02-79946
THERMODYNAMIC DISTRIBUTION OF ELEMENTS WHEN KILLING IRON WITH SILICON 67-10 M04-79315

PRESENT STATE OF THE METAL ALLOYS AGING THEORY
67-10 M10-79213
CHARACTERIZATION OF POINT DEFECTS IN NONSTOICHIOMETRIC COMPOUNDS FROM THERMODYNAMIC CONSIDERATIONS 67-10 M13-79116
EFFECTS OF CHROMIUM AND TUNGSTEN ON THE DIFFUSION AND THERMODYNAMIC ACTIVITY OF CARBON IN IRON ALLOYS 67-10 M14-78352
THE THERMODYNAMICS OF THE CARBIDE REACTION IN CR18NI9 STAINLESS CHROMIUM-NICKEL STEEL
67-10 M15-79736
EFFECT OF PRESSURE ON THE HEAT CAPACITY OF METALS
67-10 M15-79901
THERMODYNAMIC ACTIVITY OF CARBON IN FE-C-SI AND FE-C-CO ALLOYS 67-10 M15-79907
THERMODYNAMIC INTERACTION BETWEEN ZINC AND THE DILUTE SOLUTES ANTIMONY, BISMUTH, AND CADMIUM IN SOLUTION IN LIQUID LEAD 67-10 M15-79964
THERMODYNAMIC-KINETIC INTERPRETATION OF THE PASSIVATION PHENOMENA WITH FE-CR ALLOYS
67-10 M18-79090
THERMODYNAMICS OF REDUCTION OF RUBIDIUM CHLORIDE BY SILICOCALCIUM 67-11 M03-81439
THERMODYNAMICS OF THE REDUCTION OF CESIUM CHLORIDE BY SILICOCALCIUM 67-11 M03-81442
THERMODYNAMIC PROPERTIES AND SECOND-ORDER PHASE TRANSITION OF LIQUID CD-SB ALLOYS
67-11 M14-81336
DISCREPANCIES IN THE THERMODYNAMICS OF THE TITANIUM-OXYGEN SYSTEM 67-11 M15-80192
STUDY OF THE PHYSICO-CHEMICAL PROPERTIES OF MANGANESE ALLOYS IN LIQUID STATE
67-11 M15-80432
THE THERMODYNAMICS OF THE PHONON DRAG IN IONIC SEMICONDUCTORS 67-11 M15-80939
THE THERMODYNAMICS OF DILUTE INTERSTITIAL SOLID SOLUTIONS 67-11 M15-81119
HEAT CAPACITY AND THERMODYNAMIC FUNCTIONS OF IRON
67-11 M15-81151
STUDY OF CERTAIN THERMODYNAMIC PROPERTIES OF THE PH-HG SYSTEM 67-11 M15-81178
MEASUREMENT OF THE PARTIAL HEATS OF EVAPORATION OF MANGANESE AND ITS COMPOUNDS IN THE SYSTEMS MN-FE AND MN-SI BY A MASS SPECTROMETER
67-11 M15-81211
THERMODYNAMICS OF FERRITIC SOLUTIONS OF THE IRON-ZINC SYSTEM AT 700 TO 900 C 67-11 M15-81332
ACTIVITIES OF CHROMIUM AND TITANIUM IN BINARY CHROMIUM-TITANIUM ALLOYS 67-11 M15-81340
A THERMODYNAMIC INVESTIGATION OF THE COMPOUNDS, IN3SBTE2, INSB, AND INTE 67-11 M15-81348
HEAT CAPACITY OF SCANDIUM FROM 1 TO 23 K
67-11 M15-81477
THERMODYNAMIC PROPERTIES OF LIQUID SOLUTIONS OF METALS. PT. 13. THE SYSTEM ZN-ID-CD AND IN-CD
67-11 M15-81638
AN EXPERIMENTAL EQUATION OF STATE FOR ALUMINUM TO THE DEBYE APPROXIMATION 67-11 M15-81672
SOME ENERGY MEASUREMENTS RELATED TO STRUCTURE OF METALLIC LIQUIDS 67-11 M16-81570
DETERMINATION OF THE LATENT ENERGY OF PLASTIC DEFORMATION OF COPPER FROM THE DIFFERENCE OF ELECTROLYTIC POTENTIALS 67-11 M17-81051
THERMOELECTRIC AND THERMOMAGNETIC EFFECTS AND APPLICATIONS 67-12 M01-82986
CALCULATION OF THE REDUCED THERMODYNAMIC POTENTIALS OF SOME CARBIDES AND NITRIDES
67-12 M09-82787
X-RAY INVESTIGATION OF THE NB-FE SYSTEM AND THE DETERMINATION OF THE THERMODYNAMIC PROPERTIES OF THE COMPOUND NBFE2 67-12 M13-82166
PHASE RELATIONS AND THERMODYNAMIC PROPERTIES FOR THE SAMARIUM-ZINC SYSTEM 67-12 M13-82577
STUDY OF THE LIQUIDUS RELATIONS IN EQUILIBRIUM DIAGRAMS FOR PHASES WITH A DEFINITE COMPOSITION APPLICATION TO THE ESTIMATION OF THE LATENT HEAT OF FUSION 67-12 M13-82697
ANALYSIS OF THE THERMODYNAMIC PROPERTIES OF SOLID LEAD-BISMUTH-ALLOYS 67-12 M14-82051
THE SOLID SOLUBILITY LIMITS OF ZINC IN GAAS AT 1000 C 67-12 M14-82290
TERNARY DIFFUSION IN COPPER-SILVER-GOLD ALLOYS
67-12 M14-82713
HYDROGEN SOLUBILITY IN ALPHA TI-O ALLOYS
67-12 M14-82747
REACTION DIFFUSION AND KIRKENDALL-EFFECT IN THE NICKEL-ALUMINUM SYSTEM 67-12 M14-82757
ELECTROMIGRATION OF CADMIUM AND INDIUM IN LIQUID BISMUTH 67-12 M14-82957
INTERSTITIAL DIFFUSION IN THE BCC LATTICE
67-12 M14-82965
THERMODYNAMICS OF THE INTERACTION OF ZRO2, MGO AND CAO WITH REFRACTORY METALS 67-12 M15-81741
DETERMINATION OF THE THERMODYNAMIC ACTIVITY OF ALUMINIUM IN NI-AL-CR ALLOYS BY THE E. M. F. METHOD 67-12 M15-82168
THERMOMAGNETIC STUDIES OF THE MAGNETOCALORIC EFFECT OF COBALT NEAR THE CURIE POINT
67-12 M15-82222
HEATS OF FORMATION OF ALUMINUM DIBORIDE AND ALPHA-ALUMINUM DODECABORIDE 67-12 M15-82390
THERMOCHEMISTRY OF MOLTEN NICKEL OR IRON ALLOYS
67-12 M15-82402
THERMODYNAMIC PROPERTIES OF SOLID MAGNESIUM-NICKEL ALLOYS 67-12 M15-82420
PHENOMENOLOGICAL THERMODYNAMICS OF MELTING AND SOLIDIFICATION 67-12 M15-82502
THERMODYNAMIC PROPERTIES OF THE CALCIUM-ZINC SYSTEM 67-12 M15-82575
SOLUTE INTERACTIONS WITH ZINC IN DILUTE SOLUTION WITH MOLTEN BISMUTH. PT. 2. FOUR- AND FIVE-COMPONENT SOLUTIONS 67-12 M15-82580
THERMODYNAMIC PROPERTIES OF LIQUID MAGNESIUM-LEAD ALLOYS 67-12 M15-82581
THERMODYNAMIC ACTIVITY OF CHROMIUM IN FE-CR SOLUTIONS 67-12 M15-82594
THERMODYNAMIC PROPERTIES AND EQUILIBRIUM PHASE DIAGRAMS IN THE AL-PB AND AL-CD SYSTEMS
67-12 M15-82595
SOME FACTORS IN THE THERMODYNAMIC PROPERTIES OF LIQUID ALLOYS 67-12 M15-82670
ACTIVITY OF INTERSTITIAL AND NONMETALLIC SOLUTES IN DILUTE METALLIC SOLUTIONS--LATTICE RATIO AS A CONCENTRATION VARIABLE 67-12 M15-82750
THERMODYNAMICS OF IRON-PLATINUM ALLOYS
67-12 M15-82751
THERMODYNAMIC INTERACTIONS AND LIQUIDUS PHASE BOUNDARIES IN THE LEAD CORNER OF THE PB-ZN-AG AND PB-ZN-AU SYSTEMS 67-12 M15-82754
THERMODYNAMIC PROPERTIES OF LIQUID MAGNESIUM-SILICON ALLOYS. DISCUSSION OF THE MG-GROUP IVB SYSTEMS 67-12 M15-82850
THERMODYNAMIC FUNCTIONS OF IRON
67-12 M15-82958
A CORRELATION OF THERMODYNAMIC VARIABLES FOR IRON-RICH IRON-NICKEL-CARBON ALLOYS
67-12 M15-82959
THE THERMODYNAMIC PROPERTIES OF SEVERAL SOLID PHASES OF THE COMPOUND, INSB 67-12 M15-82973
VAPOR PRESSURE, ENTHALPY, EVAPORATION COEFFICIENT AND ENTHALPY OF ACTIVATION OF THE BERYLLIUM NITRIDE --BE3N2-- DECOMPOSITION REACTION
67-12 M15-82994
DIRECT DETERMINATION OF HEATS OF REACTIONS BETWEEN SOLID PHASES BY ANALYSIS OF THERMAL GRADIENT DATA
67-12 M15-83200

THERMODYNAMICS, ALLOYING EFFECTS
THE INFLUENCE OF ADDITIVE ELEMENTS ON THE ACTIVITY COEFFICIENT OF SULFUR IN LIQUID LEAD AT 600 C
67-02 M14-59424
THE EFFECT OF A THIRD COMPONENT ADDED TO NICKEL-ALUMINUM ALLOYS ON THE THERMODYNAMIC PROPERTIES OF THE GAMMA AND GAMMA-PRIME PHASE
67-06 M15-70368
THERMODYNAMIC BEHAVIOR OF COLUMBIUM CARBIDE, CARBONITRIDE, NITRIDE AND SULFIDE IN STEEL
67-07 M15-72492
SOLUTE INTERACTIONS WITH ZINC IN DILUTE SOLUTION WITH MOLTEN BISMUTH.. 1-THIRD-ELEMENT EFFECTS
67-09 M15-77720

THERMODYNAMICS, COMPOSITION EFFECTS
THERMODYNAMIC PROPERTIES AND NONSTOICHIOMETRY OF OF THORIUM DICARBIDE 67-07 M15-74227
THERMODYNAMIC PROPERTIES AND NONSTOICHIOMETRY OF THORIUM MONOCARBIDE 67-07 M15-74228

THERMODYNAMICS, TEMPERATURE EFFECTS
HEAT CAPACITY OF ALPHA URANIUM FROM 1.7 TO 25 K
67-02 M15-60770

THERMOELASTICITY
SEE ELASTICITY
THERMAL PROPERTIES

THERMOELECTRIC COOLING
THERMOMAGNETIC EFFECTS IN SUPERCONDUCTING NIOBIUM
67-10 M15-79149

THERMOELECTRIC EFFECT
SEE THERMOELECTRICITY

THERMOELECTRIC EMF

THERMOELECTRIC EMF

SEE THERMOELECTRICITY
THERMOELECTRIC GENERATORS
VARIATIONS IN PROPERTIES OF SINTERED THERMOELEMENTS 67-01 M09-58319
EFFECTS OF POWDER OXIDATION ON SINTERED THERMOELEMENTS 67-01 M09-58320
INVESTIGATION OF THE TEMPERATURE DEPENDENCE OF THE RESISTIVITY AND THERMO-EMF OF BISMUTH-CADMIUM AND BISMUTH-TIN MELTS OF EUTECTIC COMPOSITIONS 67-04 M15-67053
PHYSICAL PROPERTIES OF SOME RARE-EARTH METAL DICARBIDES 67-04 M15-67099
THERMOELECTRIC POWER GENERATION
ON THE THEORY OF ANISOTROPIC THERMOELECTRIC POWER IN SEMICONDUCTORS 67-01 M16-57563
SOME REMARKSO CONDUCTIVITY AND HALL CONSTANT 67-06 M16-71864
EFFECT OF PLASTIC DEFORMATION ON THE ABSOLUTE THERMOPOWER OF ALPHA-BRASS 67-11 M15-80633
THERMOELECTRIC POWER GENERATION, IMPURITY EFFECTS
ABSENCE OF GIANT THERMOELECTRIC POWER IN DILUTE AU-V ALLOYS 67-08 M15-75056
THERMOELECTRICITY
THERMOELECTRIC POWER AND ELECTRICAL RESISTIVITY OF CU3AU DOPED WITH 3D TRANSITION METALS 67-01 M15-57476
THE ABSOLUTE THERMOELECTRIC POWER OF LIQUID METALS 67-01 M15-57972
THERMOELECTRIC POWER OF ANNEALED AND QUENCHED GOLD-PLATINUM ALLOYS AT LOW TEMPERATURES 67-01 M15-58634
SIZE EFFECT IN THE THERMOPOWER OF BISMUTH 67-01 M16-57955
ON HEAT CONDUCTIVITY AND THERMOELECTROMOTIVE FORCE OF HEXAGONAL SELENIUM SINGLE CRYSTALS 67-01 M16-58642
GOLD CONDUCTORS, RESISTORS, AND THERMO-COUPLES 67-02 M15-58920
ELECTRICAL RESISTANCE AND THERMOELECTRIC POWER OF URANIUM DURING OXIDATION AT .001 TORR FROM 500 TO 800 C 67-02 M15-59048
INFLUENCE OF BAKING TEMPERATURE ON ELECTRICAL AND THERMOELECTRICAL PROPERTIES OF PETROLEUM COKE 67-02 M15-59194
ELECTRICAL AND THERMOELECTRICAL PROPERTIES OF COPPER THIN FILMS 67-02 M15-59920
THE EFFECT OF PRESSURE ON THE RESISTIVITY AND THERMOELECTRIC POWER OF LIQUID MERCURY-INDIUM ALLOYS 67-02 M15-60807
THERMOELECTRICAL PROPERTIES OF YTTRIUM 67-02 M15-61616
ELECTRON TRANSPORT AND THERMOELECTRIC PROPERTIES OF N-TYPE BI1.75SB0.25TE3 67-02 M15-61694
ELECTRICAL PROPERTIES OF SOME LIQUID SEMICONDUCTORS 67-02 M16-60810
STUDY OF THE NONPARABOLICITY OF THE PBTE VALENCE BAND BY MEASUREMENTS OF THE THERMAL EMF IN A STRONG MAGNETIC FIELD 67-03 M16-65460
THERMOELECTRIC POWER OF VANADIUM DIOXIDE WHISKERS 67-03 M16-65645
LOW TEMPERATURE THERMOELECTRIC POWER OF GOLD-IRON VERSUS SILVER NORMAL THERMOCOUPLES 67-03 M20-65739
ELECTRICAL PROPERTIES OF COPPER-ALUMINUM JOINTS MADE BY ARGON ARC WELDING 67-04 M15-66439
ELECTRICAL PROPERTIES OF MELTS OF SIO2-UO2 SYSTEMS 67-04 M15-67106
EFFECT OF THE TEMPERATURE ON THE CHANGE IN THE CONCENTRATION OF CONDUCTION ELECTRONS IN BISMUTH DUE TO THE PRESENCE OF ELEMENTS OF THE 4 AND 6 GROUPS 67-04 M16-67052
VARIATION IN THE THERMOELECTROMOTIVE FORCE ON THE MELTING OF ALLOYS IN THE SYSTEM BISMUTH-LEAD 67-05 M15-68242
THERMOELECTRIC POWER OF SILVER ALLOYS AT VERY LOW TEMPERATURES 67-05 M15-68290
THERMOELECTRICAL PROPERTIES OF TIN THIN FILMS 67-05 M15-69670
ON THE MIXED MECHANISM OF ELECTRON SCATTERING IN INSB CRYSTALS 67-05 M15-69789
ANALYSIS OF BINARY ALLOYS FROM THE THERMO-EMF AND TEMPERATURE COEFFICIENT OF ELECTRICAL RESISTIVITY 67-05 M19-69306
THERMAL CURRENTS AND THERMO-EMF IN INDUSTRIAL REFRACTORIES AT ELEVATED TEMPERATURES 67-06 M05-71400
THE THERMOELECTRIC PROPERTIES OF SOME REFRACTORY METALS 67-06 M15-70345
INVESTIGATION OF THE NONPARABOLICITY OF THE CONDUCTION BAND OF PBTE BY THE METHOD OF MEASURING THE THERMOELECTRIC POWER IN A STRONG MAGNETIC FIELD 67-06 M15-70511
THERMOMAGNETIC EFFECTS IN DEFORMED N-TYPE GE 67-06 M15-70521
CALCULATION OF THE ELECTRICAL RESISTIVITY AND THE THERMOELECTRIC POWER OF VACANCIES IN COPPER AND GOLD 67-06 M15-70715
SOME ELECTROPHYSICAL PROPERTIES OF NIOBIUM AND ZIRCONIUM CARBIDES IN THEIR HOMOGENEOUS REGIONS 67-06 M15-72041
MECHANISM OF SCATTERING OF ELECTRONS IN IN203 FILMS 67-06 M16-71923
PHASE RELATIONS AND THERMOELECTRIC PROPERTIES OF THE ALLOY SYSTEMS, SNTE-BI2TE3 AND PBTE-SB2TE3 67-07 M14-73462
ELECTRICAL AND THERMOELECTRICAL PROPERTIES OF THIN COPPER FILMS 67-07 M15-72575
THE ELECTRICAL PROPERTIES OF TIG WELDED JOINTS BETWEEN COPPER AND ALUMINIUM 67-07 M15-72698
LOW-TEMPERATURE THERMOELECTRIC POWER AND MAGNETIC SUSCEPTIBILITY OF RARE EARTH METALS IN GOLD AND SILVER 67-07 M15-73295
CALCULATION OF EFFECTIVE FORCES ON AN IMPURITY OF A METAL SUBJECTED TO A TEMPERATURE GRADIENT 67-07 M15-73632
THERMOELECTRIC POWERS OF PALLADIUM ALLOYS 67-07 M15-73982
HALL EFFECT AND THERMOELECTRIC POWER IN SEMICONDUCTIVE TIO2 67-07 M16-73320
QUANTUM OSCILLATIONS OF THE NERNST-ETTINGSHAUSEN EFFECT IN INDIUM ARSENIDE 67-08 M16-75246
THE STABILITY OF THE THERMO-EMF/TEMPERATURE CHARACTERISTICS OF NICKEL-BASE THERMOCOUPLES 67-08 M19-74513
ELECTRIC AND THERMOELECTRIC EFFECTS IN A SOLID SOLUTION OF ZNXCD1-XSB 67-09 M15-76737
THERMOSTIMULATED CURRENTS IN P-TYPE CADMIUM TELLURIDE SINGLE CRYSTALS 67-09 M15-76738
EFFECTS OF THE DEFORMATION OF NI-CU SYSTEM ALLOYS ON THEIR THERMAL EMF 67-09 M15-77071
STUDY OF THERMOELECTROMOTIVE FORCES IN CERTAIN COMPOUNDS DURING FUSION AND IN LIQUID PHASE 67-09 M15-77120
ANISOTROPY OF RELAXATION TIMES AND PHONON DRAG IN THE NOBLE METALS 67-09 M15-77158
THERMOELECTRIC POWER IN SILVER-GOLD AND SILVER-GERMANIUM ALLOYS 67-09 M15-77166
THERMOELECTRIC PROPERTIES OF VANADIUM 67-10 M15-78343
PREPARATION OF CU2SE SINGLE CRYSTALS AND INVESTIGATION OF THEIR ELECTRICAL PROPERTIES 67-10 M15-79004
THE THERMOELECTRIC EFFICIENCY OF CDSB AND SOLID SOLUTIONS OF ZNXCB1-XSB WITH HOLE CONDUCTIVITY 67-10 M15-79107
EFFECT OF MAGNETIC FIELD AND EXTERNAL LOADS ON THE THERMOELECTROMOTIVE FORCES OF FE-NI ALLOYS 67-10 M15-79219
ELASTIC HYSTERESIS OF THERMOELECTROMOTIVE FORCE OF FE-NI ALLOYS 67-10 M15-79233
THE THERMAL EMF AND K-STATE OF NICKEL-CHROMIUM ALLOYS 67-10 M15-79910
THE SEEBECK EMF FOR CERTAIN BI-, CD-, PB-, SN- AND TL-BASE ALLOYS AGAINST THE PURE SOLVENT 67-10 M15-79951
THERMOELECTRIC POWER OF ANNEALED AND QUENCHED GOLD-PLATINUM ALLOYS 67-10 M16-79418
STUDY OF THE THERMODYNAMIC PROPERTIES OF CERTAIN SEMICONDUCTING ALLOYS BY THE ELECTROMOTIVE-FORCE METHOD 67-11 M15-80159
THERMOMAGNETIC EFFECTS IN THE SEMICONDUCTING INTERMETALLIDES, ZN4SB3 AND ZN3SB2, AND THE CHARACTER OF THE CHEMICAL BOND 67-11 M15-80172
THERMOELECTRIC PROPERTIES OF YTTRIUM-GROUP V AND YTTRIUM-GROUP VI BINARY AND TERNARY COMPOUNDS 67-11 M15-80762
STRUCTURAL FEATURES OF TIN-ANTIMONY ALLOYS IN THE LIQUID STATE 67-11 M15-81043
THERMOELECTRIC POWER OF SOME METALS AND ALLOYS IN THE LIQUID STATE 67-11 M15-81047
RECOVERY OF THERMOELECTRIC POWER AND ELECTRICAL RESISTIVITY OF GOLD, FOLLOWING SMALL PLASTIC DEFORMATION AT-195 C 67-11 M15-81591
PRODUCTION OF THERMOELECTRIC MATERIALS BASED ON BI2TE3 SOLID SOLUTION OF BI2TE3-SB2TE3 WITH A GIVEN DISTRIBUTION OF IMPURITIES

67-11 M16-81317
PSEUDOATOM PHASE SHIFTS FOR MONOVALENT METALS AND ALLOYS. PT. 1. ELECTRICAL RESISTIVITIES AND THERMOELECTRIC POWERS OF THE MONOVALENT LIQUID METALS 67-11 M16-81478
ANTIFERROMAGNETISM OF GAMMA-FEMN ALLOYS. PT. 3. SPECIFIC HEAT AND THERMOELECTRIC POWER STUDIES 67-12 M15-81763
ABSOLUTE THERMOELECTRIC POWER OF VANADIUM-IRON ALLOYS BETWEEN 100 K. AND 600 K 67-12 M15-82292
COMPUTER CALCULATION OF THE THERMAL AND ELECTRICAL PHENOMENA IN THE CATHODES OF ALUMINUM ELECTROLYTIC CELLS 67-12 M15-82756
THERMOELECTRIC POWER AND RESISTIVITY OF CHROMIUM-RICH CR-FE ALLOYS BETWEEN 25 AND 1000 C 67-12 M15-83260
ON THE STATE OF THE INTERSTITIAL ATOM IN THE INTERCRYSTALLINE TRANSITION ZONE OF A POLYCRYSTALLINE SOLID SOLUTION 67-12 M16-82333

THERMOELECTRICITY, ALLOYING EFFECTS
THERMOELECTROMOTIVE FORCE OF ZINC-BISMUTH ALLOYS 67-11 M15-80738

THERMOELECTRICITY, COMPOSITION EFFECTS
THERMOELECTRIC POTENTIAL MEASUREMENTS ON FE SPECIMENS 67-06 M15-70081
CONDUCTIVITY AND HALL CONSTANT. PT. 35. ON THE INFLUENCE OF VALENCY OF BETA-METALS ON THE CHANGE OF ELECTRICAL PROPERTIES BY SHORT RANGE ORDER IN TERNARY COPPER AND SILVER BASE ALPHA-SOLID SOLUTIONS 67-06 M15-71720
DIFFUSION THERMOPOWER AND THE FERMI SURFACE IN DILUTE SILVER-GOLD ALLOYS 67-07 M15-72843

THERMOELECTRICITY, HEATING EFFECTS
THE EFFECT OF HEAT TREATING ON CERTAIN PROPERTIES OF HALF-CELLS OF BI2TE3 PLUS BI2SE3, BI2TE3 PLUS SB2TE3 TERNARY ALLOYS 67-11 M15-81320

THERMOELECTRICITY, PRESSURE EFFECTS
THERMOELECTRIC POWER OF GERMANIUM. EFFECT OF 2000-ATM PRESSURE 67-06 M16-69919
INFLUENCE OF HYDROSTATIC PRESSURE ON THE ELECTRIC PROPERTIES OF SINGLE CRYSTALS OF THE SOLID SOLUTION 0.85PBTE PLUS 0.15PBS 67-09 M15-76774
PRESSURE EFFECTS ON THE ELECTRICAL PROPERTIES OF POLYCRYSTALLINE BORON 67-10 M15-79965

THERMOELECTRICITY, SIZE EFFECTS
THE EFFECT OF GRAIN SIZE ON THE LATTICE THERMAL CONDUCTIVITY OF COPPER ALUMINIUM ALLOYS 67-11 M15-80619

THERMOELECTRICITY, STRESS EFFECTS
CHANGE IN THERMOELECTROMOTIVE FORCE OF COPPER UNDER THE EFFECT OF PLASTIC TENSILE STRAIN AT VARIOUS RATES 67-02 M15-62090

THERMOELECTRICITY, TEMPERATURE EFFECTS
SOME TRANSPORT PROPERTIES OF CONDUCTION ELECTRONS IN N-TYPE CDS 67-02 M15-59470
ELECTRICAL PROPERTIES OF ALPHA-IN2SE3 67-02 M15-59480
THERMOELECTRIC POWER OF LIQUID DILUTE ALLOYS OF MERCURY 67-03 M15-65636
STUDIES OF THE ELECTRICAL PROPERTIES OF URANIUM OXIDES. PT. 3. THERMOELECTRIC POWER OF ALPHA-U3O8 67-05 M15-69772

THERMOGRAPHS
SEE RECORDING INSTRUMENTS
TEMPERATURE MEASURING INSTRUMENTS

THERMOLUMINESCENCE
ENERGY AND KINETIC PARAMETERS OF NITROGEN IMPURITY IN SILICON CARBIDE CRYSTALS 67-06 M16-71769
THERMOLUMINESCENCE AND COLOR CENTERS IN LIF 67-09 M16-77438

THERMOLUMINESCENCE, IMPURITY EFFECTS
THERMOLUMINESCENT STUDY OF THE COLOR CENTERS IN IRRADIATED POLYCRYSTALLINE MGO 67-11 M15-81686

THERMOMAGNETIC EFFECTS
MAGNETIC AND IMPULSE PROPERTIES OF FERRITES CONTAINING VARIOUS AMOUNTS OF CO, SUBJECTED TO THERMOMAGNETIC TREATMENT 67-02 M15-59941
LOCALIZED MAGNETIC MOMENTS IN MN4N 67-03 M15-65638
TEMPERATURE DEPENDENCE OF THE LONGITUDINAL THERMOMAGNETIC EFFECT IN AN ALLOY NEAR THE NI3FE COMPOSITION WITH MOLYBDENUM IMPURITIES 67-06 M15-70327
USE OF THE NERNST-ETTINGS-HAUSEN THERMOMAGNETIC EFFECTS AS INDICATORS FOR THE SCATTERING MECHANISM 67-06 M15-70516
INFLUENCE OF MIXED CONDUCTION ON THE TEMPERATURE DEPENDENCE OF THE TRANSPORT COEFFICIENTS OF SEMICONDUCTORS 67-06 M15-70517
THERMOMAGNETIC EFFECTS IN DEFORMED N-TYPE GE 67-06 M15-70521
GALVANOMAGNETIC AND THERMOMAGNETIC EFFECTS IN STRAINED N-GE 67-06 M16-70504
THE ELECTROTHERMAL TREATMENT OF STEELS IN MAGNETIC FIELDS 67-06 M17-71127
MAGNETIC AND IMPULSE PROPERTIES OF FERRITES WITH DIFFERENT AMOUNTS OF CO AFTER THERMOMAGNETIC TREATMENT 67-07 M15-72596
OSCILLATORY THERMOMAGNETIC EFFECTS IN LEAD TELLURIDE 67-07 M15-72950
THERMOMAGNETIC EFFECTS IN ANISOTROPIC MEDIA 67-08 M15-75224
EFFECT OF THERMOMAGNETIC TREATMENT ON THE MAGNETIC PROPERTIES AND DOMAIN STRUCTURE OF SILICON IRON SINGLE CRYSTALS. PT. 1 67-08 M15-75258
TEMPERATURE DEPENDENCE OF THE THERMOMAGNETIC EFFECT IN NI-CU, NI-ZN, NI-AL, NI-SN ALLOYS 67-08 M15-75286
ANALOG OF THE NERNST EFFECT IN THE INTERMEDIATE STATE OF TYPE I SUPERCONDUCTORS 67-08 M16-75825
ON THE THEORY OF THERMOMAGNETIC TREATMENT OF HIGH COERCIVE ALLOYS OF THE TICONAL TYPE 67-10 M15-79838
THERMOMAGNETIC FIGURES OF MERIT OF BISMUTH AT 77 K 67-11 M15-80301
ELECTROMAGNETIC AND THERMOMAGNETIC EFFECTS IN CADMIUM ARSENIDE 67-11 M15-80611

THERMOMAGNETIC EFFECTS, TEMPERATURE EFFECTS
HALL AND NERNST-ETTINGS-HAUSEN EFFECTS IN FERRITES CONTAINING AN EXCESS OF IRON IONS 67-06 M15-70520

THERMOMAGNETISM
SEE THERMOMAGNETIC EFFECTS

THERMOMETERS /FILLED/
DIFFUSED SEMICONDUCTOR LOW TEMPERATURE THERMOMETERS 67-01 M19-57225

THERMONUCLEAR REACTIONS
IRRADIATION TESTING OF UO2-PUO2 FUELS 67-09 M16-76357
FISSION GAS RELEASE FROM MIXED OXIDE FUELS 67-09 M16-76358

THERMOPHYSICAL PROPERTIES
SEE THERMAL PROPERTIES

THERMOPLASTIC ADHESIVES
HOW TO USE FLUOROCARBON PLASTICS AS BONDING AGENTS 67-05 M11-68699

THERMOPLASTIC RESINS
SEE ALSO ACRYLIC RESINS
ELASTOMERS
POLYAMIDE RESINS
POLYVINYL CHLORIDE
RUBBER
VINYL RESINS

THERMOPLASTIC RESINS, COATINGS
COATING METAL PARTS WITH PLASTICS BY THE FLAME SPRAYING PROCESS 67-04 M12-66722

THERMOSETTING RESINS
SEE ALSO ALKYD RESINS
EPOXY RESINS

THERMOSETTING RESINS, ADHESIVES
NEW STICK FOR METALS 67-02 M11-59016

THERMOSTABILITY
SEE THERMAL STABILITY

THETA PHASE
SEE ALSO THETA PRIME PHASE
THE THETA PHASE IN THE PLUTONIUM-ZIRCONIUM SYSTEM 67-05 M14-68223
THE ORIENTATION AND SHAPE OF THETA PRECIPITATES FORMED IN AN AL-CU ALLOY 67-08 M13-75232

THETA PHASE, PRECIPITATION
DIRECT OBSERVATION OF CHANGE FROM THETA-PRIME TO THETA PHASE IN PRECIPITATION OF AN AL-CU ALLOY 67-05 M14-68872
PRECIPITATION FROM COLD-WORKED STRUCTURES 67-06 M14-70439

THETA PRIME PHASE
DISCUSSION OF MECHANISMS OF FORMATION OF THETA PRECIPITATES IN AL-4 PER CENT CU BY C. LAIRD AND H. I. AARONSON 67-06 M14-72231

THETA PRIME PHASE, PRECIPITATION
DIRECT OBSERVATION OF CHANGE FROM THETA-PRIME TO THETA PHASE IN PRECIPITATION OF AN AL-CU ALLOY 67-05 M14-68872

THICKNESS
THE DIMENSIONING OF ROLL BODIES IN ROLL STANDS FOR ROLLING ALUMINUM 67-01 M07-58220
THICKNESS OF CS-SB FILMS RELATIVE TO THE ORGINAL SB FILMS 67-01 M19-57112
NON-DESTRUCTIVE TESTING OF THIN COATINGS 67-01 M19-58581
THE ABSOLUTE DETERMINATION OF THE THICKNESS AND COMPOSITION OF SURFACE LAYERS WITH A MICROPROBE 67-02 M19-59087
MEASURING ELECTRODEPOSIT THICKNESS. A BETA BACK-SCATTER METHOD FOR THE PLATINUM METALS 67-05 M19-69287
EFFECT OF TRANSITION PROCESSES IN CONTINUOUS COLD ROLLING ON THE THICKNESS VARIATION OF THE STRIP 67-06 M07-71256
STRIP THICKNESS REGULATION FOR REVERSING COLD ROLLING MILLS 67-07 M07-74021
THE APPLICATION OF NONDESTRUCTIVE COATING THICKNESS-MEASURING METHODS 67-07 M12-73821
ULTRASONIC WALL THICKNESS GAGING OF BOILER TUBES 67-07 M19-72560
EFFECT OF TRANSITION PROCESSES IN CONTINUOUS COLD ROLLING ON THICKNESS VARIATIONS OF STRIP 67-08 M07-75725
COATING THICKNESS DETERMINATIONS OF TIN PLATE BY X-RAY METHODS 67-08 M12-75586
INTRINSIC SIZE EFFECTS IN TYPE-2 SUPERCONDUCTING FILMS 67-08 M16-75929
A SURVEY OF THIN FILM THICKNESS MEASUREMENT METHODS 67-08 M19-74712
OPTIMIZATION OF THE TOLANSKY TECHNIQUE FOR THIN FILM THICKNESS MEASUREMENTS 67-08 M19-74713
MEASURING PIECES WITH UNPARALLEL SURFACES BY AN ULTRASONIC RESONANCE THICKNESS GAGE 67-08 M19-75350
NO CONTACT STRIP THICKNESS MEASUREMENT WITH RADIOISOTOPES 67-08 M19-75765
THICKNESS MEASUREMENT OF STEEL PLATE WITH GAMMA-RAY THICKNESS GAGE 67-08 M19-75806
AGC.. PUTTING THICKNESS MEASUREMENT TO WORK 67-09 M19-76496
THICKNESS GAGING--WHERE THE CUSTOMERS MIKE IS ALWAYS RIGHT 67-09 M19-76497
DETERMINATION OF THE THICKNESS OF ALUMINUM ON SILICON BY X-RAY FLUORESCENCE 67-09 M19-76628
ELECTROHYDRAULIC SYSTEM FOR AUTOMATIC THICKNESS CONTROL OF STRIP ROLLED IN COLD ROLLING MILLS 67-09 M19-76836
AUTOMATIC THICKNESS GAGE FOR COLD ROLLED STRIP 67-09 M19-76858
CONTACTLESS WEIGHT DETERMINATION DURING THE ROLLING OF TUBES ACCORDING TO THE PILGER METHOD 67-09 M19-77386
COMPARISON OF VARIOUS METHODS FOR DETERMINING THE THICKNESS OF GALVANIZED COATINGS, OF THE IRON-ZINC ALLOY LAYERS AND OF THE PURE ZINC LAYER 67-09 M19-77656
STUDIES ON THICKNESS OF HOT DIPPED ZINC COATING. PT. 2 67-10 M12-79605
POSSIBLE APPLICATIONS OF NONDESTRUCTIVE TESTING IN THE PRODUCTION OF STEEL TUBES. PT. 1. WALL THICKNESS MEASUREMENTS 67-10 M19-79479
A GUIDE TO SELECTION OF MINIMUM PLATING THICKNESS FOR QUALITY COATINGS 67-11 M01-81196
INFLUENCE OF BILLET GEOMETRY ON WALL THICKNESS VARIATION IN EXTRUDED TUBES 67-11 M07-80756
DECREASING THE WALL THICKNESS VARIATION IN TUBES BY USING TWO-ROW ROLLER ROLLING 67-11 M07-80862
PRACTICAL DETERMINATION OF PARAMETERS AND EFFICIENCY IN ELECTROPLATING 67-11 M12-81700
THICKNESS MEASUREMENT OF ZN COATINGS 67-11 M19-80696
STATISTICAL ANALYSIS OF LENGTHWISE THICKNESS VARIATION IN COLD ROLLED STRIP 67-12 M07-81712
DETERMINING CROSSWISE THICKNESS VARIATION OF SHEETS WHEN ROLLING ON FOUR-HIGH WALLS 67-12 M07-81713
THICKNESS AND HARDNESS MEASUREMENTS OF ELECTRODEPOSITS 67-12 M12-81751
PRODUCTION METHODS FOR DETERMINING GOLD PLATE THICKNESS 67-12 M19-81749
AN X-RAY DIFFRACTION METHOD OF DETERMINING THE THICKNESS OF THIN NICKEL COATINGS WITHOUT USING STANDARDS 67-12 M19-82304
DETERMINATION OF THE THICKNESS OF AG, CD AND SN USING FLUORESCENT KALPHA X-RAYS INDUCED BY TM 170 67-12 M19-83256
THICKNESS, ALLOYING EFFECTS
EFFECT OF ALLOYING ELEMENTS ON THE PROPERTIES OF HOT DIP GALVANIZED COATINGS 67-09 M12-77651
THICKNESS, AUTOMATIC CONTROL
DETERMINING THE PARAMETERS OF A DEVICE USED FOR AUTOMATIC STRIP THICKNESS CONTROL IN THE FINISHING STANDS OF CONTINUOUS HOT ROLLING MILLS 67-09 M07-76977
THICKNESS, QUALITY CONTROL
AUTOMATIC STRIP THICKNESS REGULATOR 67-01 M19-57679
THIN FILMS
LIQUID BRIGHT GOLD COATINGS AND GOLD LEAF 67-02 M12-58910
SEMI-AUTOMATIC PREPARATION OF ULTRA-THIN AND LARGE-AREA PETROLOGICAL SECTIONS 67-03 M05-65673
PREPARATION OF SEMICONDUCTOR MATERIALS. PT. 3 67-03 M16-65456
CRUCIBLE TYPE EVAPORATION SOURCE FOR ALUMINUM 67-04 M12-67403
THINNING OF POLYCRYSTALLINE MGO FOR TRANSMISSION ELECTRON MICROSCOPY 67-05 M13-68659
INTERFEROMETER JIG FOR FILM THICKNESS MEASUREMENT 67-06 M19-70835
DEPOSITION OF TANTALUM AND TANTALUM OXIDE BY SUPERIMPOSED RF AND D-C SPUTTERING 67-07 M12-73458
MEASUREMENT TECHNIQUES FOR THIN FILMS 67-08 M01-74723
LARGE-AREA PLANAR AND NONPLANAR ALUMINUM OXIDE FILMS 67-11 M12-80830
THIN FILMS, ADSORPTION
INVESTIGATION OF THE ADSORPTION AND ELECTRON EMISSION OF CESIUM FILMS ON A TUNGSTEN SINGLE CRYSTAL 67-09 M13-76785
THIN FILMS, AGING /METALLURGICAL/
THE BASIC PROCESSES AFFECTING TWO-STEP AGING IN AN AL-MG-SI ALLOY 67-10 M14-78908
THIN FILMS, ATOMIC STRUCTURE
THE DEPOSITION OF ATOMS SPUTTERED IN AN ABNORMAL GLOW DISCHARGE 67-11 M16-80127
THIN FILMS, CHEMICAL ANALYSIS
ON THE CHEMICAL COMPOSITION OF SURFACE FILMS PRODUCED ON GERMANIUM IN DIFFERENT ETCHANTS 67-02 M19-61573
THICKNESS DETERMINATION OF THIN FILMS BY ELECTRON PROBE MICROANALYSIS 67-04 M19-67263
THICKNESS DEPENDENCE OF THE COMPOSITION IN ELECTROPLATED NI-FE CYLINDRICAL FILMS 67-07 M12-73594
ANALYSIS OF ALLOYING ELEMENTS IN VARIOUS ALLOYS AND DETERMINATION OF SMALL AMOUNTS OF ELEMENTS BY X-RAY FLUORESCENT SPECTROSCOPY 67-08 M19-74403
MASS SPECTROGRAPHIC ANALYSIS OF THIN FILMS 67-08 M19-74710
THE APPLICATION OF A XENON FLASH DISCHARGE LAMP TO THE ANALYSIS OF THIN METAL FILMS 67-08 M19-74711
GAS INCORPORATION INTO SPUTTERED FILMS 67-12 M14-83264
THIN FILMS, CHEMISORPTION
CHEMISORPTION OF OXYGEN AND HYDROGEN ON NICKEL FILMS--RECONSTITUTION OF THE ADSORBATE-ADSORBENT INTERFACE 67-10 M14-79552
THIN FILMS, COATING
DEPOSITION OF TANTALUM, TANTALUM OXIDE, AND TANTALUM NITRIDE WITH CONTROLLED ELECTRICAL CHARACTERISTICS 67-01 M12-57107
A NITRIC OXIDE PROCESS FOR THE DEPOSITION OF SILICA FILMS 67-06 M12-70665
PREPARATION AND PROPERTIES OF SPUTTERED BISMUTH OXIDE FILMS 67-06 M12-71045
BIAS SPUTTERING.. ITS TECHNIQUES AND APPLICATIONS 67-07 M12-73835
SOME APPLICATIONS OF TRIODE SPUTTERING TO INTEGRATED CIRCUITS CIRCUITS 67-08 M12-75602
THIN FILMS, COATINGS
EFFECT OF SELENIOUS ACID ON THE ELECTRODEPOSITION OF MANGANESE 67-03 M12-65658
THE ELECTRODEPOSITION OF THIN MAGNETIC PERMALLOY FILMS 67-07 M12-73589
DESIGN OF A NEW VACUUM DEPOSITION SPECIMEN HOLDER FOR AN ELECTRON MICROSCOPE OPERATING AT 10-8 TORR 67-08 M12-74787
PROGRESS IN THE PRODUCTION OF THIN OXIDE FILMS FOR OPTICAL AND ELECTRICAL APPLICATIONS

67-08 M12-75178
RESISTIVITY MEASUREMENTS OF VACUUM-RESIDUAL GASES DURING VACUUM DEPOSITION OF AU AND NI
67-08 M12-75181
PREPARATION OF PHOTOSENSITIVE FILMS OF CADMINUM SULFIDE BY VACUUM EVAPORATION
67-08 M12-75182
AGGREGATION OF AG AND AU THIN FILMS THAT ARE DEPOSITED ON CARBON FOILS AT ELEVATED TEMPERATURES AND IN ULTRAHIGH VACUUM
67-08 M14-75164
SUBSTRATE-TEMPERATURE MEASUREMENT AND CONTROL
67-08 M19-74563
INVESTIGATION OF THE DEPOSITION OF MOLYBDENUM CARBIDE FILMS FROM MOLYBDENUM HEXACARBONYL USING AN ELECTRON BEAM 67-11 M12-81052

THIN FILMS, CORROSION
PREVENTION OF TARNISHING OF SILVER SURFACE
67-01 M18-58710
AN ELLIPSOMETRIC DETERMINATION OF THE MECHANISM OF PASSIVITY OF NICKEL 67-02 M18-59448
GALVANIC EFFECTS IN VACUUM DEPOSITED THIN FILMS
67-02 M18-59454
MECHANISM OF STRESS CORROSION CRACKING OF FACE CENTERED CUBIC ALLOYS 67-08 M18-74409
STRESS-CORROSION CRACKING OF QUENCH-HARDENED STEEL WITH WHITE ETCH-RESISTANT SURFACE FILMS
67-12 M18-82184
ELECTROCHEMICAL PROPERTIES AND CHEMICAL PASSIVITY OF ETCH-RESISTANT SURFACE FILMS ON STEEL
67-12 M18-82185

THIN FILMS, CRYSTAL GROWTH
ELECTRON DIFFRACTION STUDIES OF THE EPITAXY OF CU SINGLE CRYSTALS. PT. 2. EARLY STAGES OF EPITAXY AND INTERFACIAL DISLOCATION NETWORKS
67-01 M13-57109
EPITAXIAL DEPOSITION OF GERMANIUM BY BOTH SPUTTERING AND EVAPORATION 67-01 M14-57106
GROWTH PYRAMIDS IN EPITAXIAL GAAS
67-01 M14-57448
INTERRUPTED VAPOUR DEPOSITION OF EPITAXIAL GOLD FILMS GROWN INSIDE AN ELECTRON MICROSCOPE
67-01 M14-57565
KINETICS OF DEPOSITION OF THIN LEAD SELENIDE FILMS
67-01 M16-57657
EPITAXY OF BODY-CENTERED CUBIC METALS EVAPORATED ONTO CLEAVAGE FACES OF ROCKSALT
67-02 M13-60522
THE CONTRAST FROM TWIN BOUNDARIES IN --111-- FILMS OF SILVER 67-02 M13-60806
EPITAXIAL FILMS OF ZNTE ON IONIC SUBSTRATES
67-02 M14-59013
THIN FILMS OF AMORPHOUS IRON 67-02 M14-60822
SELECTIVE EPITAXIAL DEPOSITION OF GALLIUM ARSENIDE IN HOLES 67-02 M14-61767
REPRODUCIBLE PREPARATION OF SN1-XPBXTE EPITAXIAL FILMS WITH MODERATE CARRIER CONCENTRATIONS
67-02 M14-61823
EVAPORATION AND DEPOSITION RATES, STICKING PROBABILITY, AND BACKGROUND PRESSURE DURING THE PRODUCTION OF THIN FILMS IN VACUUM
67-02 M14-61827
INFLUENCE OF THE VAPORIZATION METHOD ON THE STRUCTURE AND PROPERTIES OF AL AND CU VACUUM CONDENSATES 67-02 M17-62080
THE FORMATION OF SINGLE CRYSTAL FILMS OF FCC METALS ON ALKALI HALIDE CLEAVAGE PLANES IN ULTRAHIGH VACUUM
67-03 M14-65381
GROWTH MECHANISM OF VAPOR DEPOSITED GERMANIUM FILMS
67-03 M14-65429
DEFECT FORMATION IN EPITAXIAL FILMS ON NATIVE AND FOREIGN SUBSTRATES 67-04 M13-67741
FORMATION TEMPERATURES FOR EVAPORATED EPITAXIAL GERMANIUM FILMS 67-04 M14-66393
EPITAXIAL GROWTH OF UO2 ON GRAPHITE
67-04 M14-67461
EPITAXIAL GROWTH OF BETA-SIC BY CARBONIZING SILICON
67-05 M14-68567
FORMATION TEMPERATURES FOR EVAPORATED EPITAXIAL GERMANIUM FILMS 67-05 M14-68590
GROWTH OF THIN GOLD FILMS ON ROCKSALT FROM 80 K. TO 475 K 67-05 M14-69214
LOW-ENERGY ELECTRON DIFFRACTION STUDIES OF EPITAXIAL GROWTH OF SILVER AND GOLD IN ULTRA-HIGH VACUUM 67-05 M14-69426
USE OF THE METHOD OF SHORT-RANGE TRANSPORT FOR THE PREPARATION OF EPITAXIAL LAYERS OF SEMICONDUCTOR MATERIALS 67-06 M14-70216
METASTABLE EVAPORATED THIN FILMS OF CU-AG AND CO-AU ALLOYS. PT. 1. OCCURRENCE AND MORPHOLOGY OF PHASES 67-06 M14-70407
EPITAXIAL GROWTH OF SILVER AND NICKEL FILMS BY CATHODE SPUTTERING ON NACL CRYSTALS CLEAVED IN VACUUM 67-06 M14-70524
REFLECTION X-RAY TOPOGRAPHY OF GAAS DEPOSITED ON GE
67-06 M14-70667
THE DEVELOPMENT OF THE FACE-CENTERED CUBIC INTERFERENCE FUNCTIONS AS CRYSTALS GROW
67-06 M14-70898
PREFERRED ORIENTATION AND DOMAIN STRUCTURE OF IRON FILMS DEPOSITED ON --100-- COPPER SUBSTRATES
67-06 M14-70992
THE STRUCTURE OF SILVER FILMS DEPOSITED ON MICA SUBSTRATES IN ULTRAHIGH VACUUM
67-06 M14-71023
REACTIVELY SPUTTERED VANADIUM DIOXIDE THIN FILMS
67-06 M14-72199
EXPERIMENTAL EVIDENCE FOR PSEUDOMORPHIC GROWTH OF PLATINUM ON GOLD 67-06 M14-72220
CHEMICAL VAPOR GROWTH OF SINGLE-CRYSTAL MAGNETIC OXIDE FILMS 67-07 M14-73523
POLYMORPHISM IN SOME IV-VI COMPOUNDS INDUCED BY HIGH PRESSURE AND THIN-FILM EPITAXIAL GROWTH
67-08 M14-75552
GROWTH AND STRUCTURE OF SILVER FILMS EVAPORATED ON --111-- SI SURFACE 67-09 M14-76483
CRYSTALLOGRAPHIC AND MAGNETIC PROPERTIES OF THIN FILMS OF IRON EPITAXIALLY GROWN ON FCC SUBSTRATES
67-09 M14-76592
CONCERNING THE GROWTH OF EPITAXIAL GERMANIUM FILMS BY THE SANDWICH METHOD 67-09 M14-76768
METHOD OF OBTAINING HOMOGENEOUS FILMS OF SEMICONDUCTING III-V COMPOUNDS
67-09 M14-76770
INVESTIGATION OF THE PROCESS OF GROWING EPITAXIAL GAAS FILMS BY USING THE OPEN IODIDE METHOD
67-09 M14-76851
EVIDENCE FOR THE PROPAGATION OF CRYSTAL DEFECTS FROM THE SUBSTRATE INTO AN EPITAXIAL OVERGROWTH 67-10 M14-78752
TIN WHISKERS AND FILAMENTARY GROWTHS ON A THIN FILM CONDUCTOR IN RESPONSE TO DIRECT-CURRENT FLOW
67-11 M14-80831
SINGLE-CRYSTAL SELENIUM FILMS 67-12 M12-82217
A NEW MECHANISM FOR STACKING FAULT GENERATION IN EPITAXIAL GROWTH OF SILICON IN ULTRAHIGH VACUUM
67-12 M12-82219
EPITAXIAL GROWTH OF VACUUM-EVAPORATED CO ON NACL. PT. 1. CONDITIONS LEADING TO EPITAXY
67-12 M14-82007
EPITAXIAL GROWTH OF VACUUM-EVAPORATED CO ON NACL. PT. 2. ANALYSIS OF DIFFRACTION PATTERNS
67-12 M14-82008
EPITAXIAL GROWTH OF GOLD ON CADMIUM IODIDE
67-12 M14-82009

THIN FILMS, CRYSTAL LATTICES
ELECTRON DIFFRACTION STUDIES OF THE EPITAXY OF CU SINGLE CRYSTALS. PT. 1. EPITAXY OF EVAPORATED CU FILMS ON CU CRYSTALS 67-01 M13-57108
RECOVERY PROCESSES IN NICKEL THIN FILMS BETWEEN 20 AND 300 C 67-01 M15-57579
TRANSMISSION ELECTRON MICROSCOPE STUDIES OF NEUTRON IRRADIATED BERYLLIUM OXIDE 67-02 M13-59049
ELECTRON DIFFRACTION AT LOW TEMPERATURE. PT. 2. RADIAL DISTRIBUTION ANALYSIS OF METASTABLE STRUCTURE OF METAL FILMS PREPARED BY LOW TEMPERATURE CONDENSATION 67-02 M13-60514
ELECTRON DIFFRACTION OF LOW TEMPERATURE. PT. 3. RADIAL DISTRIBUTION ANALYSIS OF METASTABLE STRUCTURE OF METAL FILMS PREPARED BY LOW TEMPERATURE CONDENSATION 67-02 M13-60515
AN ELECTRON-DIFFRACTION STUDY OF AMORPHOUS TLSE
67-02 M13-61656
X-RAY DIFFRACTION ANALYSIS OF STACKING FAULTS IN CONDENSED COBALT FILMS 67-02 M13-61676
REGARDING THE EFFECT OF SPECIMEN SHAPE ON THE SELECTION OF THE PRIMARY SLIP PLANE
67-02 M13-61824
SURFACE STRUCTURE OF VAPOR-DEPOSITED SILVER
67-02 M14-60823
PREPARATION OF HEXAGONAL CADMIUM TELLURIDE FILMS
67-02 M14-61660
STRUCTURE OF VERY THIN TANTALUM AND MOLYBDENUM FILMS 67-02 M14-61826
ELECTRON DIFFRACTION AT LOW TEMPERATURE 4. AMORPHOUS FILMS OF IRON AND CHROMIUM PREPARED BY LOW TEMPERATURE CONDENSATION 67-03 M13-65157
THE CRYSTALLINE STRUCTURE OF ZNTE THIN FILMS

67-03 M13-65223
RADIATION-INDUCED POINT DEFECT CLUSTERS IN COPPER AND GOLD. PT. 1. CLUSTERS PRODUCED IN ENERGETIC DISPLACEMENT CASCADES 67-03 M13-65375
LATTICE CONTRACTIONS IN MICROCRYSTALS OF NICKEL-IRON 67-03 M13-65830
MULTIPLE DIFFRACTION EFFECTS IN ANNEALED PERMALLOY FILMS 67-03 M13-65882
LATTICE DEFECTS AND SURFACE PROPERTIES OF CLEAN GERMANIUM 67-04 M13-67738
ELECTRON MICROSCOPIC OBSERVATION OF CROSSED LATTICES IN GOLD CRYSTAL FILMS 67-04 M13-68122
GROWTH TEXTURES IN BERYLLIUM CONDENSATES 67-04 M14-66499
STRUCTURE AND MECHANICAL PROPERTIES OF COPPER VACUUM CONDENSATES 67-04 M14-67382
ORDERED ALLOYS OF THE GOLD-PALLADIUM SYSTEM. PT. 2. ELECTRON DIFFRACTION STUDY ON EVAPORATED AUPD3 FILMS 67-04 M14-67477
TEXTURAL AND ELECTRICAL PROPERTIES OF VACUUM-DEPOSITED GERMANIUM FILMS 67-05 M14-68622
DISLOCATION MULTIPLICATION, VACANCY ACCUMULATION, AND THE ONSET OF JERKY FLOW DURING FORWARD AND REVERSED STRAIN IN CU-3.2 AT. PER CENT SN 67-05 M14-68750
TWINNING AND MORPHOLOGY OF EPITAXIAL LAYERS OF GAAS ON GE 67-06 M13-70513
STACKING-FAULT TETRAHEDRA IN --001-- EPITAXIAL SILICON FILMS 67-06 M13-71091
SUPPLEMENT TO ELECTRON DIFFRACTION AT LOW TEMPERATURE RADIAL DISTRIBUTION ANALYSIS OF A FILM COMPOSED OF VERY FINE CRYSTALLITES 67-06 M13-71548
INITIAL STAGES OF THE CRYSTALLIZATION OF SELENIUM SPHERULITES AND THE MECHANISM OF THEIR FORMATION 67-06 M14-70519
THE CRYSTALLINE PERFECTION OF MELT-GROWN GAAS SUBSTRATES AND GA --AS, P-- EPITAXIAL DEPOSITS 67-06 M14-71422
EXPERIMENTAL STUDIES ON DYNAMIC MULTIPLE REFLECTIONS OBSERVED IN THIN FILMS OF METALS AND ALLOYS BY ELECTRON DIFFRACTION 67-08 M13-74414
SURFACE MEASUREMENTS USING LOW ENERGY ELECTRON DIFFRACTION 67-08 M13-74708
ANALYSIS OF THIN FILMS 67-08 M13-75345
THE OBSERVATION OF THICK SPECIMENS BY HIGH VOLTAGE ELECTRON MICROSCOPY. EXPERIMENTS WITH MOLYBDENITE FILMS AT 50-500 KV 67-08 M13-75934
PERFECT EPITAXY OF SILICON FILMS ON SILICON AS SEEN IN LARGE-AREA X-RAY TOPOGRAPHS 67-08 M14-75156
EFFECTS OF IMPURITIES ON THE STRUCTURE OF EPITAXIAL GOLD FILMS 67-09 M14-77461
MULTIPLE TWINNED PARTICLES AT EARLIER STAGES OF GOLD FILM FORMATION ON ALKALIHALIDE CRYSTALS 67-10 M13-78716
CRYSTAL STRUCTURE OF THIN GE FILMS PRODUCED BY CRYSTALLIZATION METHOD 67-11 M13-80227
THE INFLUENCE OF ANNEALING ON THE STRUCTURE OF POLYCRYSTALLINE PERMALLOY THIN FILMS 67-11 M14-80608
ORIENTED GROWTH OF THE INTERFACIAL PTSI LAYER BETWEEN PT AND SI 67-11 M16-81205
FACE-CENTERED CUBIC MODIFICATION IN SPUTTERED FILMS OF TANTALUM, MOLYBDENUM, TUNGSTEN, RHENIUM, HAFNIUM AND ZIRCONIUM 67-12 M13-82543

THIN FILMS, CRYSTAL STRUCTURE
AN X-RAY STUDY OF 99.99 PER CENT AL ANODIC OXIDE FILMS OBTAINED IN H2SO4 AS ELECTROLYTE 67-06 M13-70221
EXPLANATION OF THE CONTRAST DIFFERENCES OF AMORPHOUS AND CRYSTALLINE OBJECTS IN ELECTRON MICROSCOPY 67-06 M13-72144
ELECTRON MICROSCOPIC OBSERVATION OF OXIDES FORMED ON THIN FILM OF COPPER AT ELEVATED TEMPERATURE 67-06 M14-71544

THIN FILMS, DEPOSITION
THE MECHANISM OF CHEMICAL DEPOSITION OF THIN LEAD SELENIDE FILMS 67-01 M14-57656
PREPARATION AND PROPERTIES OF VACUUM DEPOSITED CDS AND CDSE FILMS 67-02 M16-61121
LABORATORY APPARATUS FOR PREPARING THIN MULTILAYER FILMS BY VACUUM VAPORIZATION 67-04 M12-68086
CHEMICAL VAPOR DEPOSITION OF MO ONTO SI 67-05 M12-68630
USE OF SIMULTANEOUS VAPORIZING OF TWO SUBSTANCES TO OBTAIN THIN FILMS 67-05 M12-68655
METHOD FOR MOUNTING THIN FILMS WITHOUT SUBSTRATES 67-05 M12-68658
SILICON-ON-SAPPHIRE APPROACH AFFORDS FREEDOM AND FLEXIBILITY 67-05 M12-68700
PLATINUM AND PALLADIUM METALLIZING PREPARATIONS 67-05 M12-69731
RHENIUM AND RHENIUM-TUNGSTEN DEPOSITION BY THERMOCHEMICAL REDUCTION OF THE HEXAFLUORIDES-A PRELIMINARY STUDY 67-06 M12-70600
ELECTRODEPOSITION OF COPPER-COBALT ALLOYS FROM THE PYROPHOSPHATE BATH 67-06 M12-70641
ELECTRON BEAM FORMATION OF 800 A. WIDE ALUMINIUM LINES 67-06 M12-71014
AN A-C ELECTRON BOMBARDMENT TECHNIQUE FOR VACUUM DEPOSITION OF CARBON 67-07 M12-72809
ELECTRODEPOSITION OF THIN MAGNETIC FILMS IN THE NI-FE-CU SYSTEM 67-07 M12-73593
GROWTH OF TI AND TIO2 THIN FILMS OBTAINED BY CATHODIC SPUTTERING 67-09 M12-77211
PRODUCTION OF MOLYBDENUM AND RHENIUM FOIL FOR NUCLEAR RESEARCH 67-10 M03-78978
THE ELECTRODEPOSITION OF THIN FE-NI FILMS 67-10 M12-79893
A SURVEY OF THIN-FILM VACUUM DEPOSITION TECHNIQUES 67-11 M12-80362

THIN FILMS, DIELECTRICS
THIN-FILM HAFNIUM-HAFIUM OXIDE CAPACITORS FOR HIGH TEMPERATURE OPERATION 67-08 M14-75163

THIN FILMS, DIFFUSION
SURFACE DIFFUSION AND MOVEMENT OF BUBBLES OF INERT GASES IN COPPER 67-02 M14-58929
DIFFUSION FROM DOPED OXIDE FILMS AS A PROCESS FOR THE PRODUCTION OF STRUCTURAL SEMICONDUCTOR ELEMENTS 67-02 M14-59620
DETERMINING THE CARBON DIFFUSION COEFFICIENT IN ZIRCONIUM CARBIDE AT HIGH TEMPERATURES 67-02 M14-60668
TRACER EVALUATION OF HYDROGEN IN STEAM-GROWN SIO2 FILMS 67-05 M14-68629
DIFFUSION OF COPPER IN GOLD 67-05 M15-69338
DIFFUSION OF ANTIMONY IN EPITAXIAL LAYERS OF GERMANIUM 67-06 M14-71921
ON THE NATURE OF SHORT-CIRCUIT DIFFUSION PATHS IN NICKEL OXIDE FILMS 67-06 M14-71975
DETERMINATION OF THE DIFFUSION COEFFICIENT OF CARBON INTO ZIRCONIUM CARBIDE AT HIGH TEMPERATURES 67-07 M14-73104
CU DIFFUSION IN ELECTRODEPOSITED PERMALLOY FILMS 67-07 M14-73591
SELF-DIFFUSION OF CALCIUM IN SINGLE CRYSTAL CALCIUM OXIDE 67-07 M14-73636
A POSSIBLE ALLOY OF NICKEL AND SILVER IN THIN FILMS 67-11 M14-81268
X-RAY DIFFRACTION BY MULTILAYERED THIN-FILM STRUCTURES AND THEIR DIFFUSION 67-12 M14-82377
DEFECT INTERACTION IN THE DIFFUSION ZONE OF SHORT GOLD-SILVER COUPLES 67-12 M14-82722

THIN FILMS, DIMENSIONAL ANALYSIS
DETERMINATION OF THE THICKNESS OF AG, CD AND SN USING FLUORESCENT KALPHA X-RAYS INDUCED BY TM 170 67-12 M19-83256

THIN FILMS, DIMENSIONS
NON-DESTRUCTIVE TESTING OF THIN COATINGS 67-01 M19-58581

THIN FILMS, ELECTRICAL PROPERTIES
THEORY OF SIZE EFFECTS IN ELECTRICAL CONDUCTIVITY 67-01 M15-57941
VACUUM-DEPOSITED AMORPHOUS BORON FILMS 67-01 M16-58420
GOLD CONDUCTORS, RESISTORS, AND THERMO-COUPLES 67-02 M15-58920
ELECTRICAL RESISTANCE AND THERMOELECTRIC POWER OF URANIUM DURING OXIDATION AT .001 TORR FROM 500 TO 800 C 67-02 M15-59048
ELECTRICAL AND THERMOELECTRICAL PROPERTIES OF COPPER THIN FILMS 67-02 M15-59920
HIGH RESISTANCE ANODIC OXIDE FILMS ON ALUMINIUM 67-02 M15-61106
LOW RESISTIVITY EPITAXIAL LAYERS OF SILICON 67-02 M16-61503
GOLD ELECTRICAL CONTACTS 67-02 M20-58918
RESISTIVITY AND TUNNELLING PROPERTIES OF PARAMAGNETIC ALLOY FILMS 67-03 M15-65108
ENHANCEMENT OF SUPERCONDUCTING CRITICAL CURRENT DENSITY IN NB3SN DIFFUSION LAYERS PRODUCED BY IRRADIATION WITH PROTONS 67-03 M16-65110
TEMPERATURE DEPENDENCE OF ELECTRON SCATTERING IN

THIN SINGLE CRYSTAL FILMS OF GALLIUM AT HE TEMPERATURES 67-03 M16-65140
THE INFLUENCE OF OXYGEN AND HYDROGEN ON THE ELECTRICAL CONDUCTIVITY OF IRON THIN FILMS 67-04 M15-67241
ELECTRICAL PROPERTIES OF SINGLE-CRYSTAL SILVER FILMS 67-04 M15-67661
CONDUCTANCE INCREASE IN N-PBTE FILMS VIA ION BOMBARDMENT 67-04 M16-66176
ELECTRON TRANSPORT PHENOMENA IN THIN FILMS OF BISMUTH 67-04 M16-66796
TEMPERATURE VARIATION OF THE RESISTIVITY OF THIN GOLD FILMS 67-05 M13-69038
MEASURING THE ELECTRICAL CONDUCTIVITY OF GALVANIC DEPOSITS IN THE COURSE OF ELECTROLYSIS 67-05 M15-68738
ELECTRICAL PROPERTIES OF VACUUM DEPOSITED NICKEL FILMS 67-05 M15-69094
BEHAVIOR OF GALVANOMAGNETIC COEFFICIENTS OF BISMUTH FILMS IN THE QUANTUM SIZE REGION 67-05 M15-69100
INTERACTION OF FERROMAGNETIC AND SUPERCONDUCTING THIN FILMS 67-05 M16-68905
DETERMINATION OF THE LOSS IN AN ALTERNATING FIELD ON A THIN FILM OF SUPERCONDUCTING NB-25 PER CENT ZR 67-05 M16-69097
ELECTRICAL PROPERTIES OF EPITAXIAL GE FILMS DEPOSITED ON --111-- CAF2 SUBSTRATES 67-05 M16-69212
STRAIN SENSITIVITY OF VACUUM DEPOSITED THIN FILMS 67-06 M12-71953
IONIC MIGRATION AS THE BREAKDOWN MECHANISM OF THIN ALUMINUM OXIDE LAYERS 67-06 M15-69961
HIGH PURITY EXPITAXIAL INAS 67-06 M15-70084
CHANGE OF ELECTRICAL RESISTANCE OF PALLADIUM FILM DUE TO ADSORPTION OF CARBON MONOXIDE 67-06 M15-71029
NEGATIVE RESISTANCE IN CADMIUM SULPHIDE FILMS 67-06 M15-71044
TRANSIENT PHOTOCONDUCTIVITY IN AMORPHOUS SELENIUM FILMS 67-06 M15-71139
INFLUENCE OF CONDENSATION RATE ON ELECTRICAL PROPERTIES OF SILICIDE THIN FILMS 67-06 M15-71474
STRUCTURE, CONDUCTIVITY AND HALL EFFECT OF ELECTRON BOMBARDMENT EVAPORATED SILICON FILMS ON SAPPHIRE 67-06 M15-72001
ELECTRICAL AND OPTICAL PROPERTIES OF AMORPHOUS GERMANIUM 67-06 M16-69921
SOME DIELECTRIC AND ELECTRONIC PROPERTIES OF CDSE FILMS 67-06 M16-71185
MEAN FREE PATHS OF ELECTRONS IN DISORDERED METAL FILMS 67-06 M16-72091
INCORPORATION OF IONS IN ANODIC OXIDE FILMS ON ZIRCONIUM AND THEIR EFFECT ON FILM BEHAVIOR 67-07 M15-73459
PHOTOVOLTAIC EFFECTS OBSERVED WITH THIN FILMS OF ZINC SULPHIDE 67-07 M15-73633
SIZE EFFECTS IN THE LONGITUDINAL MAGNETORESISTANCE OF THIN SILVER FILMS 67-07 M15-73939
SOME EXPERIMENTS IN THE REACTIVE EVAPORATION OF TANTALUM OXIDE 67-08 M14-75160
ELASTORESISTANCE EFFECTS IN EVAPORATED-ANTIMONY FILMS 67-08 M15-74611
EFFECT OF SUBSTRATE TEMPERATURE ON THE ELECTROCONDUCTIVITY OF FILMS, PRODUCED BY VACUUM DEPOSITION OF TANTALUM 67-08 M15-74626
ELECTRONIC CONDUCTION PROPERTIES OF DIELECTRIC THIN FILMS 67-08 M15-74717
RESISTIVITY PROFILES AND THICKNESS MEASUREMENTS ON MULTILAYERED SEMICONDUCTOR STRUCTURES BY THE SPREADING RESISTANCE TECHNIQUE 67-08 M15-74720
THE DEPENDENCE OF THE ELECTRICAL CHARACTERISTICS OF NI-CR THIN FILMS ON EVAPORATION PARAMETERS 67-08 M15-75183
QUENCHED THIN PB FILMS. COMPARISON OF MEAN FREE PATHS CALCULATED FROM CRITICAL MAGNETIC FIELD VALUES WITH ELECTRON DIFFRACTION RESULTS 67-08 M16-75834
ELECTRICAL EVALUATION OF SEMICONDUCTOR FILMS 67-08 M19-74718
LOW ENERGY SPUTTERING OF RESISTIVE FILMS 67-09 M12-77532
CURRENT SATURATION IN THE EVAPORATED GAAS FILMS 67-09 M16-77453
EFFECT OF DIELECTRIC AND HIGH-RESISTIVITY BARRIERS ON THE SUPERCONDUCTING TRANSITION TEMPERATURE OF THIN FILMS 67-09 M16-77562
ELECTRICAL RESISTIVITY OF INDIUM-ANTIMONY ALLOY FILMS PREPARED BY VACUUM EVAPORATION 67-10 M15-78775
NATURE OF ELECTRICAL CONTACT BETWEEN TARNISHED SURFACES 67-10 M15-79155
THICKNESS EFFECTS OF ELECTRON SCATTERING AT AU-FILM SURFACES 67-10 M15-79156
RADIATION DAMAGE IN THIN METAL FILMS AT 4.2 K 67-10 M15-79406
ELECTRON-BEAM DEPOSITION OF MOLYBDENUM CARBIDE FILMS FROM MOLYBDENUM HEXACARBONYL 67-10 M15-79446
INFLUENCE OF ADSORPTION OF CS, BA, TH AND CU ATOMS AND OF AN ELECTRIC FIELD ON THE HALL EFFECT AND ELECTRIC CONDUCTIVITY OF THIN NICKEL FILMS 67-10 M15-79649
PHOTOCONDUCTIVE DECAY IN N-TYPE POLYCRYSTALLINE FILMS OF INDIUM ARSENIDE 67-10 M16-79170
STRUCTURE AND ELECTRICAL PROPERTIES OF THIN OXIDE FILM DIODE WITH SPUTTERED TITANIUM BASE 67-11 M15-80824
EFFECT OF BACKGROUND-GAS IMPURITIES ON THE FORMATION OF SPUTTERED BETA-TANTALUM FILMS 67-11 M15-81078
INFLUENCE OF A SUPERIMPOSED FILM ON THE ELECTRICAL CONDUCTIVITY OF THIN METAL FILMS 67-11 M15-81087
FERROELECTRICITY OF BARIUM TITANATE THIN FILMS OF LESS THAN ONE MICRON THICKNESS 67-12 M15-82015
INVESTIGATION OF THE EFFECT OF CONDENSATION RATE OF SILICIDE FILMS ON THEIR ELECTRICAL CHARACTERISTICS 67-12 M15-82795

THIN FILMS, ELECTRON DIFFRACTION
ELECTRON DIFFRACTION AT LOW TEMPERATURE. PT. 5. ON AMORPHOUS FILMS OF TRANSITION METALS AND ALLOYS PREPARED BY LOW-TEMPERATURE CONDENSATION 67-07 M13-73319
DENSITY DETERMINATION OF SPUTTERED TANTALUM FILMS BY A BETA-BACKSCATTER TECHNIQUE 67-08 M19-74715

THIN FILMS, EMISSION
CESIUM ADSORPTION ON THE FACES OF A TUNGSTEN SINGLE CRYSTAL 67-06 M14-70512
ADSORPTION AND ELECTRON EMISSION OF ALKALINE-EARTH METAL FILMS ON TUNGSTEN, IRIDIUM, AND RHODIUM 67-06 M16-70508

THIN FILMS, EPITAXIAL GROWTH
IMPURITY DISTRIBUTION IN EPITAXIAL FILMS AFTER OXIDATION 67-03 M14-65771

THIN FILMS, FABRICATION
FABRICATION OF TELLURIUM THIN FILM TRANSISTOR 67-09 M16-78184

THIN FILMS, FORMING
THE PHOTOFABRICATION OF THIN METAL PARTS 67-09 M08-76494

THIN FILMS, FRACTOGRAPHY
MICROFRACTOGRAPHY OF THIN FILMS 67-01 M13-57555

THIN FILMS, HEAT TREATMENT
EFFECT OF ANNEALING IN A MAGNETIC FIELD APPLIED ALONG THE HARD OR EASY AXIS, ON THE PROPERTIES OF THIN MAGNETIC FILMS 67-04 M15-67659
EFFECT OF HEAT-TREATMENTS IN VACUUM-DEPOSITED CDS/AG AND CDS/LI FILMS 67-11 M14-80820

THIN FILMS, INTERMETALLICS
THICKNESS OF CS-SB FILMS RELATIVE TO THE ORGINAL SB FILMS 67-01 M19-57112

THIN FILMS, IONIZATION
ELECTRON DIFFRACTION DETERMINATION OF THE IONIZATION OF THE CARBON ATOM IN BETA-MO2C CRYSTAL 67-04 M13-67111

THIN FILMS, IRRADIATION
MEASUREMENT OF ABSORPTION OF FAST ELECTRONS IN SINGLE CRYSTAL FILMS OF ALUMINIUM 67-07 M16-73144
IMPACT ACTIVATED SORPTION AS A MEANS FOR GAS INCORPORATION IN SPUTTERED THIN FILMS 67-08 M14-75162
PHOTON EMISSION FROM AL FOILS BOMBARDED BY NONNORMALLY INCIDENT ELECTRONS 67-11 M16-80655

THIN FILMS, LUBRICANTS
IMPROVING FRICTIONAL BEHAVIOR WITH SOLID FILM LUBRICANTS 67-03 M05-65432

THIN FILMS, MAGNETIC PROPERTIES
EFFECTIVE BIAXIAL ANISOTROPY IN DOUBLE-LAYERED THIN MAGNETIC FILMS 67-01 M15-57111

EFFECTS OF GASES ON THE PROPERTIES OF VAPOR-DEPOSITED NI-FE FILMS 67-01 M15-57113
EFFECT OF CRYSTALLITE SIZE ON COERCIVE FORCE OF THIN FERROMAGNETIC FILMS 67-01 M15-57119
MAGNETIZATION CURVES AND STATIC HYSTERESIS LOOPS OF THIN PERMALLOY FILMS 67-01 M15-57353
MAGNETIC PROPERTIES AND STRUCTURE OF SPRAYED FERROMAGNETIC FILMS AS DEPENDENT ON THE TEMPERATURE OF THE BASE 67-01 M15-57360
INTERACTIONS BETWEEN DOMAIN WALLS IN COUPLED FILMS 67-01 M15-57567
COMPARISON OF MAGNETIC MEASUREMENTS AND THEORETICAL PREDICTIONS FOR NICKEL-IRON FILMS OVER A WIDE COMPOSITION RANGE 67-01 M15-57569
THE EFFECT OF UNIAXIAL ELASTIC STRESSES ON THE REMAGNETIZATION OF THIN PERMALLOY LAYERS 67-01 M15-57571
THE STRUCTURE AND POLARITY OF DOMAIN BOUNDARIES IN FERROMAGNETIC LAYERS 67-01 M15-57572
ON PARTICULARITIES OF MAGNETIC PROPERTIES OF THIN FILMS WITH EXCHANGE ANISOTROPY 67-01 M15-57577
THE REMAGNETIZATION OF THIN FERROMAGNETIC LAYERS ALONG THE AXIS OF LIGHT MAGNETIZATION 67-01 M15-57583
EFFECT OF THICKNESS ON THE COERCIVE FORCE OF THIN NICKEL FILMS 67-01 M15-58029
MAGNETORESISTANCE IN ELEMENTAL BORON 67-01 M15-58417
TEMPERATURE DEPENDENCE OF UNIAXIAL ANISOTROPY AND ANISOTROPY DISPERSION IN NI-FE THIN FILMS 67-02 M15-59070
INVESTIGATION OF TEMPERATURE AND STRUCTURAL DEPENDENCE OF FERROMAGNETIC PROPERTIES OF NICKEL FILMS PRODUCED CHEMICALLY 67-02 M15-59921
EFFECTIVE PERMEABILITY OF THIN MAGNETIC FILMS AS A FUNCTION OF AMPLITUDE OF RADIO FREQUENCY FIELD 67-02 M15-59924
MOBILITY AND LOSS MECHANISMS FOR DOMAIN WALL MOTION IN THIN FERROMAGNETIC FILMS 67-02 M15-61079
HYSTERESIS LOOPS ON BIAXIAL FERROMAGNETIC FILMS 67-02 M15-61161
TEMPERATURE DEPENDENCE OF OBLIQUE-INCIDENCE ANISOTROPY IN PERMALLOY FILMS 67-02 M15-61510
MAGNETIC ANISOTROPY INDUCED IN THIN FILMS AT LOW TEMPERATURES 67-02 M15-61511
NEGATIVE OBLIQUE-INCIDENCE ANISOTROPY IN MAGNETOSTRICTION-FREE PERMALLOY FILMS 67-02 M15-61517
ON THE ORIGIN OF M-INDUCED ANISOTROPY IN NICKEL AND PERMALLOY FILMS 67-02 M15-61519
OBLIQUE-INCIDENCE ANISOTROPY IN COBALT FILMS 67-02 M15-61523
EPITAXIAL INFLUENCE OF THE SUBSTRATES ON THE ANISOTROPY IN THIN ELECTRODEPOSITED NI-FE CYLINDRICAL FILMS 67-02 M15-61529
RELATIONSHIP OF COERCIVE FORCE TO THICKNESS OF FERROMAGNETIC FILMS 67-02 M15-62073
POLARITY EFFECT OF INTERDOMAIN BOUNDARIES IN THIN MAGNETIC FILMS 67-02 M15-62075
EPITAXIAL FILMS OF IRON, NICKEL AND COBALT 67-02 M15-62078
MEASUREMENT OF THE NORMAL COMPONENT OF SWITCHING SIGNALS IN MAGNETIC THIN FILMS 67-03 M15-65159
HALL EFFECT OF THIN IRON FILMS 67-03 M15-65187
TESTING THE MAGNETIC PROPERTIES OF ELECTROLYTICALLY DEPOSITED CO ALLOYS 67-03 M15-65831
THE CRITICAL FIELDS OF SUPERCONDUCTING THIN FILMS OF TIN AND INDIUM ALLOYS 67-03 M16-65736
RELATIONSHIP OF THE COERCIVITY OF THIN FERROMAGNETIC FILMS TO CERTAIN FACTORS 67-04 M15-66482
MAGNETIC ANISOTROPY IN COBALT FERROMAGNETIC THIN FILMS 67-04 M15-66815
EFFECTIVE TRIAXIAL ANISOTROPY IN TRIPLE-LAYERED THIN MAGNETIC FILMS 67-04 M15-66997
STRUCTURE OF THE STRIPE DOMAINS OF ANOMALOUS MAGNETIC THIN FILMS 67-04 M15-66999
IN-SITU MEASUREMENTS OF MAGNETIC PROPERTIES IN VACUUM-DEPOSITED PERMALLOY FILMS 67-04 M15-67104
STATIC AND IMPULSE MAGNETIZATION AND MAGNETIC REVERSAL OF THIN FILMS 67-04 M15-67374
MAGNETIZATION OF THIN NICKEL FILMS 67-04 M15-67390
TEMPERATURE DEPENDENCE AND CRITICAL TEMPERATURE OF MAGNETIC DOMAIN STRUCTURES IN THIN FILMS 67-04 M15-67471
NUCLEATION PROCESSES ON THE EDGE OF THIN PERMALLOY FILMS 67-04 M15-67636
PARTIAL REMAGNETIZATION OF THIN FERROMAGNETIC FILMS 67-04 M15-67663
LOCKING EFFECT ON MAGNETIZATION REVERSAL IN MAGNETIC THIN FILMS 67-04 M15-68170
MAGNETIZATION REVERSALS DRIVEN BY SINUSOIDAL FIELDS IN MAGNETIC THIN FILMS 67-04 M15-68171
MULTILAYER THIN-FILM SYSTEMS 67-05 M15-68852
THE NON-PENETRATING DOMAIN STRUCTURE IN THIN PERMALLOY FILMS 67-05 M15-68856
THE COERCIVE FORCE OF THIN MAGNETIC FILMS REMAGNETIZED IN THE PRESENCE OF A SUPERHIGH-FREQUENCY FIELD 67-05 M15-68859
ORIGIN OF THE PERIODIC COMPONENT OF ANISOTROPY DISPERSION IN NI-FE THIN FILMS 67-05 M15-69289
ROTATIONAL ANISOTROPY IN PERMALLOY FILMS 67-05 M15-69388
INVESTIGATION OF THE MAGNETIC STRUCTURE OF THIN FILMS BY MEANS OF UEMV-100 ELECTRON MICROSCOPES 67-05 M15-69629
OBLIQUE-INCIDENCE ANISOTROPY AND DOMAIN CONFIGURATION IN NI-CO FILMS 67-05 M15-69762
SUBSTRATE TEMPERATURE DEPENDENCE OF OBLIQUE-INCIDENCE ANISOTROPY IN NI-FE FILMS 67-05 M15-69764
EXCHANGE ANISOTROPY IN THIN MAGNETIC FILMS 67-06 M15-70871
REVIEW OF WALL CREEPING IN THIN MAGNETIC FILMS 67-06 M15-71417
ELASTORESISTANCE EFFECT IN THIN FILMS OF CU-NI 67-06 M15-71546
MAGNETIC THIN FILMS DEPOSITED ONTO A LIQUID-LIKE SURFACE 67-06 M15-71547
EXCHANGE ANISOTROPY IN THIN MAGNETIC FILMS 67-06 M15-71833
INVESTIGATION OF THE MAGNETIC STRUCTURE OF A FERROMAGNETIC SUBSTANCE BY MAGNETO-OPTIC APPARATUS WITH MICRON RESOLUTION 67-06 M15-71922
THE POSSIBILITY OF HIGH-FREQUENCY FERROMAGNETIC RESONANCE IN THIN MAGNETIC FILMS 67-06 M15-72341
MAGNETIZATION CURVE FOR THIN FERROMAGNETIC FILMS 67-06 M15-72370
PULSED MAGNETIC REVERSAL OF CYLINDRICAL POLYCRYSTALLINE THIN FERROMAGNETIC FILMS 67-06 M15-72378
INTERBAND MAGNETOABSORPTION IN INAS AND INSB 67-06 M16-69920
EFFECT OF PH VARIATION ON THE MAGNETIC PROPERTIES OF ELECTROLESS COBALT-PHOSPHORUS THIN FILMS 67-07 M12-74123
THE INFLUENCE OF CERTAIN ADDITION AGENTS ON THE DEPOSITION RATE AND HARD MAGNETIC PROPERTIES OF ELECTROLESS COBALT 67-07 M12-74124
EVALUATION AND CONTROL OF THE MAGNETIC PROPERTIES OF CONTINUOUSLY PLATED ELECTROLESS NICKEL-COBALT-PHOSPHORUS MAGNETIC TAPE 67-07 M12-74125
THE TEMPERATURE AND STRUCTURE DEPENDENCE OF THE FERROMAGNETIC PROPERTIES OF CHEMICALLY PRODUCED NICKEL FILMS 67-07 M15-72576
EFFECTIVE PERMEABILITY OF THIN MAGNETIC FILMS AS A FUNCTION OF THE AMPLITUDE OF A RADIOFREQUENCY FIELD 67-07 M15-72579
EFFECTS OF STRAIN, PREFERRED ORIENTATION, AND LOCAL CRYSTALLITE SIZE VARIATION ON NEEL AND CROSS-TIE DOMAIN WALLS 67-07 M15-72642
DIRECT OBSERVATION OF DOMAIN-WALL MOVEMENTS IN MNBI FILMS 67-07 M15-73557
MAGNETORESISTANCE OF NICKEL-COPPER SINGLE-CRYSTAL THIN FILMS 67-07 M15-73568
AVERAGE RIPPLE-ANGLE MAGNITUDE, WALL PINNING, AND SUSCEPTIBILITY IN THIN PERMALLOY FILMS 67-07 M15-73569
ORIGIN OF STRIPE DOMAINS IN NI-FE FILMS 67-07 M15-73570
LORENTZ MICROSCOPY IN POLYCRYSTALLINE NI-FE FILMS 2000-A THICK 67-07 M15-73571
ANISOTROPY CONSTANT OF 50..50 NI-CO ALLOY FILMS 67-07 M15-73572
CALCULATIONS OF THE STRUCTURE OF NEEL, BLOCH, AND INTERMEDIATE WALLS AND THE INFLUENCE OF THEIR 67-07 M15-73573
PARALLEL OBLIQUE-INCIDENCE ANISOTROPY IN NIFE FILMS

67-07 M15-73574
MAGNETOSTRESS EFFECTS IN EVAPORATED NI FILMS
67-07 M15-73575
DEPENDENCE OF MAGNETIC ANISOTROPY ON THE CRYSTAL STRUCTURE OF NI-FE THIN FILMS
67-07 M15-73576
RELAXATION PROCESSES FOR FERROMAGNETIC RESONANCE IN THIN FILMS 67-07 M15-73577
ANOMALOUS HYSTERESIS LOOPS IN PERMALLOY THIN FILMS NEAR 4.2 K 67-07 M15-73578
MAGNETIZATION RIPPLE IN MULTILAYER FILMS
67-07 M15-73579
PROPERTIES OF MANGANESE-PERMALLOY FILMS
67-07 M15-73590
UNIAXIAL ANISOTROPY AND ROTATIONAL HYSTERESIS IN THIN GADOLINIUM FILMS 67-07 M15-73592
THERMALLY INDUCED PARALLEL MAGNETIC COUPLING IN COUPLED THIN FILMS 67-07 M15-73595
MAGNETIC PROPERTIES AND ANNEALING BEHAVIOR OF ELECTRODEPOSITED NIFES THIN FILMS
67-07 M15-73596
MAGNETOELASTIC COEFFICIENT AND TEMPERATURE RELATIONSHIP IN THIN NI-FE FILMS
67-07 M15-73597
ZERO MAGNETOSTRICTION COMPOSITION OF NIFE FILMS
67-07 M15-73598
FERROMAGNETIC RESONANCE IN EVAPORATED THIN FILM OF MNSB 67-07 M15-73987
MAGNETIC PERPENDICULAR ANISOTROPY OF NICKEL THIN FILMS EVAPORATED IN ULTRA HIGH VACUUM
67-07 M15-73988
MAGNETIC MEASUREMENT TECHNIQUES FOR THIN FILMS AND SMALL PARTICLES 67-07 M19-73605
MAGNETIC RECORDING MATERIALS 67-07 M20-73540
ORIGIN OF THE PERIODIC COMPONENT OF ANISOTROPY DISPERSION IN NI-FE FILMS. PT. 2
67-08 M15-74608
ROTATING FIELD MAGNETOMETER FOR MEASUREMENT OF ANISOTROPIC MAGNETIC MATERIALS
67-08 M15-74932
STRUCTURAL AND MAGNETIC PROPERTIES OF EPITAXIAL FILMS OF IRON 67-08 M15-75243
INTRINSIC SIZE EFFECTS IN TYPE-2 SUPERCONDUCTING FILMS 67-08 M16-75929
ELECTROLESS PLATING VARIABLES AND COERCIVE FORCE OF NICKEL-COBALT-PHOSPHORUS FILMS
67-09 M12-76997
MAGNETIC PROPERTIES OF CHEMICALLY DEPOSITED COBALT-IRON FILMS 67-09 M15-76996
MAGNETOSTRICTION AND COMPOSITIONAL GRADIENTS IN BOAT-EVAPORATED PERMALLOY FILMS
67-09 M15-77431
EFFECT OF UNIAXIAL STRESS ON DOMAIN STRUCTURE OF PERMALLOY FILMS 67-09 M15-77788
MAGNETIC ANISOTROPY IN FERROMAGNETIC THIN FILMS
67-10 M15-78496
CRITICAL PARAMETERS OF EVAPORATED NIFE FILMS FOR FAST STORES 67-10 M15-78868
INVESTIGATION OF MAGNETIZATION CURVES OF UNIAXIAL FILMS 67-10 M15-79458
TWO-LAYER FILMS OF MANGANESE-PERMALLOY WITH UNIDIRECTIONAL ANISOTROPY --FEATURES OF DOMAIN STRUCTURE--
67-10 M15-79834
EFFECT OF STRUCTURE AND PHASE COMPOSITION ON THE COERCIVE FORCE OF CONDENSED COBALT FILMS
67-10 M15-79839
FINE MAGNETIC DOMAIN STRUCTURES OF IRON, NICKEL AND COBALT FILMS 67-10 M15-79840
STUDY OF THE ROTATION OF MAGNETIC MOMENT IN PERMALLOY FILMS 67-10 M15-79841
A HALL FOUR-POINT PROBE ON THIN PLATES. THEORY AND EXPERIMENT 67-11 M15-80536
COERCIVE FORCE AND ANISOTROPY FIELD OF MULTI-LAYER PERMALLOY FILMS 67-11 M15-81053
PERPENDICULAR ANISOTROPY IN 81NI-19FE THIN FILMS
67-11 M15-81096
ELECTRON MICROSCOPIC STUDIES ON ORIGINS OF MAGNETIZATION RIPPLES IN FERROMAGNETIC THIN FILMS
67-12 M15-81761
MAGNETIC PROPERTIES OF ANOMALOUS NICKEL THIN FILMS
67-12 M15-81765
DYNAMIC HYSTERESIS LOOPS IN THIN FILMS OF SI-FE ALLOY 67-12 M15-82223
INFLUENCE OF RESIDUAL GAS AND VAPORIZED BASE METAL ON THE PROPERTIES OF PERMALLOY EVAPORATED COATINGS 67-12 M15-82230
EFFECT OF DEPOSITION CONDITIONS ON ROTATING HYSTERESIS IN THIN FERROMAGNETIC FILMS
67-12 M15-82324
TEMPERATURE DEPENDENCE OF THE FERROMAGNETIC RESONANCE LINEWIDTH IN THIN NI-FE FILMS
67-12 M15-82366
THE STABILITY OF CYLINDRICAL PERMALLOY FILMS IN AN INHOMOGENEOUS MAGNETIC FIELD 67-12 M15-83011
FERROMAGNETIC RESONANCE OF HE3-IRRADIATED THIN METAL FILMS 67-12 M15-83266
THE MAGNETIC PROPERTIES OF SPUTTERED NIFE FILMS
67-12 M15-83276

THIN FILMS, MECHANICAL PROPERTIES
DEFORMATION CAUSED BY STYLUS TRACKING ON THIN GOLD FILM 67-01 M17-57557
THE EFFECT OF DEFORMATION ON PRECIPITATION OF THETA PRIME AND THETA IN AL-4 PER CENT CU
67-01 M17-57937
THE RELATION BETWEEN THE STRENGTH AND THE CONDITIONS OF PREPARING CU AND AL VACUUM CONDENSATES 67-02 M17-59556
DEFORMATION OF ANODIC OXIDE FILMS
67-02 M17-61764
STRENGTH OF MULTILAYERED VACUUM CONDENSATES
67-05 M17-68578
STRESS IN VACUUM DEPOSITED FILMS OF SILVER
67-05 M17-69291
MECHANICAL PROPERTIES OF ELECTRODEPOSITED IRON FROM SULFATE BATH--CONDITIONS OF ELECTRODEPOSITION
67-07 M17-72602
THE STRAIN IN TRIPLEX NICKEL PLATING PRODUCED BY INSTANTANEOUS INTERNAL STRESS
67-07 M17-72604
INTERNAL STRESSES IN THIN FILMS
67-08 M17-74721
ACOUSTICS AND THIN FILMS 67-08 M17-74722
INTERNAL FRICTION AND ELASTIC MODULUS OF SILVER THIN FILMS 67-09 M17-77785
THE EFFECT OF OXIDE FILMS ON DISLOCATION-SURFACE INTERACTIONS IN ALUMINUM 67-10 M13-79553
INTERNAL STRESS OF ELECTRODEPOSITED NICKEL IRON FILMS 67-11 M17-80817
ORIENTATION DEPENDENCE OF STRESS-STRAIN CURVES IN VACUUM DEPOSITED SINGLE CRYSTAL GOLD FILMS
67-11 M17-81272
EVIDENCE FOR THE PROPAGATION OF CRYSTAL DEFECTS FROM THE SUBSTRATE INTO AN EPITAXIAL OVERGROWTH
67-12 M17-83121

THIN FILMS, METALLOGRAPHY
IMPROVED METALLOGRAPHIC TECHNIQUE FOR OBSERVING REACTIONS OF THIN METAL FILMS ON SILICON
67-05 M13-69225
PRODUCTION OF CARBON REPLICAS OF TRANSVERSE SECTIONS OF GERMANIUM FILMS 67-05 M13-69628
NEW TECHNIQUE FOR PREPARING UO2 THIN FOILS FOR ELECTRON MICROSCOPY 67-12 M13-82804

THIN FILMS, MICROSTRUCTURE
OBSERVATION OF THIN FILMS OF ZIRCONIUM UNDER THE TRANSMISSION ELECTRON MICROSCOPE
67-01 M13-58023
EFFECT OF ANNEALING ON THE STRUCTURE OF VACUUM METAL CONDENSATES 67-02 M13-61926
STRUCTURE OF ANTIMONY SPHERULITES CRYSTALLIZED FROM AN AMORPHOUS FILM
P 147-150 67-02 M13-61938
THE EFFECT OF PRECIPITATION CONDITIONS ON THE PROPERTIES OF ELECTROLYTIC CU DEPOSITS
67-02 M14-61885
TEXTURE AND ELECTRICAL CONDUCTIVITY OF CADMIUM SULFIDE FILMS 67-02 M15-61658
PSEUDO-FIVEFOLD SYMMETRY IN CARBONYL PROCESS NICKEL
67-03 M13-65488
THE NATURE OF THE NEAR FOCUS E. M. IMAGES OF AMORPHOUS SUBSTRATES AND ITS SIGNIFICANCE FOR OBTAINING HIGH RESOLUTION PICTURES
67-04 M13-66155
SURFACE STRUCTURE AND CHEMICAL REACTIVITY OF ELECTRODEPOSITED NICKEL 67-04 M13-66270
SCANNING ELECTRON DIFFRACTION OBSERVATIONS ON DIFFUSE INNER RINGS FROM VERY THIN VAPOR-DEPOSITED FILMS 67-05 M13-69209
OBSERVATION OF GOLD FILMS ON THINNED ROCKSALT
67-05 M13-69222
EMMA-2, AN INSTRUMENT FOR ELECTRON-MICROSCOPIC AND X-RAY SPECTRAL MICROANALYSIS OF THIN FILMS AND EXTRACTION REPLICAS 67-05 M13-69637
THE STRUCTURE AND PERFECTION OF THERMALLY GROWN OXIDE FILMS ON SILICON 67-05 M14-68779
THE MECHANISM OF THE FORMATION OF GALVANICALLY SUBSTITUTED CU FILMS 67-06 M12-71291
THE PREPARATION OF THIN FOILS OF TITANIUM ALLOYS
67-06 M13-69950

THIN FILMS

GROWTH AND STRUCTURE OF GE THIN FILMS PRODUCED BY THE METHOD OF FOIL CRYSTALLIZATION 67-11 M13-80226
LAYER STRUCTURE OF CODEPOSITED MN-AL ALLOY FILM 67-11 M13-80819
STUDY OF THE STRUCTURE OF METAL SURFACES BY LOW-ENERGY ELECTRON DIFFRACTION 67-12 M13-82352

THIN FILMS, NONDESTRUCTIVE TESTING
FILM THICKNESS DETERMINATION BY ELECTRON PROBE MICROANALYSIS 67-04 M19-67430
MEASUREMENT OF FILM THICKNESS USING INFRARED INTERFERENCE 67-10 M19-79999

THIN FILMS, NUCLEATION
AMORPHOUS NUCLEATION IN METALS 67-05 M14-68413

THIN FILMS, OPTICAL PROPERTIES
ANOMALOUS OPTICAL EFFECTS IN GERMANIUM FILMS 67-01 M15-57219
GOLD FILMS AND GOLD FILM LIGHT FILTERS 67-02 M12-58909
OPTICAL PROPERTIES OF EVAPORATED FILMS OF CHROMIUM AND COPPER 67-02 M15-60688
OPTICAL PROPERTIES OF THIN FILMS OF INDIUM 67-03 M15-65188
OPTICAL PROPERTIES OF IN THIN FILMS 67-04 M15-67729
THE THICKNESS AND OPTICAL PROPERTIES OF FILMS OF ANODIC ALUMINIUM OXIDE 67-05 M15-68636
TEMPERATURE-MODULATED REFLECTANCE OF GOLD FROM 2 TO 10 EV 67-05 M15-69592
THE OPTICAL CONSTANTS OF ALUMINIUM FROM 12 TO 36 EV 67-06 M15-70695
TUNGSTEN SHADOW CASTING FOR ELECTRON MICROSCOPICAL SPECIMENS 67-06 M15-71012
THE OPTICAL PROPERTIES OF INDIUM, GALLIUM AND THALLIUM 67-06 M15-72089
SUITABILITY OF MAGNESIUM FLUORIDE, CRYOLITE AND FLUORITE AS ANTIREFLECTION MATERIALS FOR INFRARED RADIATIONS 67-08 M15-75566
EMISSION FROM NONRELATIVISTIC ELECTRONS IN THIN METAL FOILS 67-11 M15-80785
PHOTOCONDUCTIVITY OF ZNSE THIN FILMS 67-12 M15-82017
OPTICAL EFFECTS IN METALS APPLICATION OF A LEAST-SQUARES METHOD TO MEASUREMENTS ON GOLD AND SILVER 67-12 M15-82374

THIN FILMS, OXIDATION
HIGH-TEMPERATURE OXIDATION OF THIN MAGNESIUM FILMS 67-04 M18-66668
ORIENTED GROWTH OF AN OXIDE FILM ON BERYLLIUM 67-05 M14-68244
OXIDATION OF THIN FILMS OF IRON 67-08 M18-76227
THE APPLICATION OF A GLANCING-ANGLE X-RAY DIFFRACTION FILM TECHNIQUE TO THE STUDY OF THE LOW-TEMPERATURE OXIDATION OF FE-CR ALLOYS 67-08 M18-76252
EXCHANGE ANISOTROPY IN OXIDIZED PERMALLOY THIN FILMS AT LOW TEMPERATURES 67-12 M15-82371

THIN FILMS, OXIDATION TESTS
OXIDATION OF THIN MAGNESIUM LAYERS AT HIGH TEMPERATURES 67-01 M18-58126

THIN FILMS, PHASE TRANSFORMATIONS
PHASE AND ORDER TRANSITIONS DURING AND AFTER FILM DEPOSITION 67-01 M14-57121
FACE-CENTERED-CUBIC TUNGSTEN FILMS 67-04 M14-68073
ELECTRON DIFFRACTION AND ELECTRON MICROSCOPE ANALYSIS OF THE CARBIDES IN VACUUM-CONDENSED IRON-CARBON FILMS 67-05 M14-68837
METASTABLE EVAPORATED THIN FILMS OF CU-AG AND CO-AU ALLOYS. PT. 2. KINETICS OF THE TRANSFORMATIONS 67-06 M14-70408

THIN FILMS, PHASES /STATE OF MATTER/
ON AN AMORPHOUS AU-CO ALLOY FILM 67-02 M13-59074
RESEARCH INTO THE PROCESSES OF PRECIPITATION IN SUPERPARAMAGNETIC ALLOYS 67-09 M14-76817

THIN FILMS, PHYSICAL PROPERTIES
POROSITY AND COERCIVE FORCE IN EVAPORATED PERMALLOY THIN FILMS 67-02 M15-59063
THE WORK FUNCTION OF GOLD 67-02 M15-61574
MEASURING THE SPECIFIC RESISTANCE OF PLATES AND EPITAXIAL FILMS BY THE COUNTER PROBE METHOD 67-03 M15-65076
CESIUM-ANTIMONY FILMS IN EQUILIBRIUM WITH CESIUM VAPOR 67-03 M16-65891
DEPOSITION OF THIN FILMS UNDER THE INFLUENCE OF FAST ION IRRADIATION 67-04 M12-67057
ELECTRICAL AND THERMOMETRIC PROPERTIES OF SUPERIMPOSED LEAD-COPPER FILMS AT LOW TEMPERATURES 67-04 M15-66120
THE EFFECT OF STRAIN HARDENING AND HEAT TREATMENT ON THE ELECTRICAL CONDUCTIVITY OF POLYCRYSTALLINE COPPER FILMS 67-06 M15-70745
INVESTIGATION OF THE STRUCTURE AND SOME ELECTRIC CHARACTERISTICS OF CHROMOSILICON FILMS IN THE PROCESS OF THEIR HEAT TREATMENT 67-06 M15-71473
MEASURING THE SPECIFIC RESISTANCE OF PLATES AND EPITAXIAL LAYERS BY THE OPPOSING PROBE METHOD 67-07 M15-72967
DENSITY OF THIN EVAPORATED ALUMINUM FILMS 67-08 M19-74714
ADSORPTION, SURFACE REACTION, AND MUTUAL DISPLACEMENT OF CO, CO2 AND O2 ON TITANIUM FILM 67-10 M14-79576
SOME WORK FUNCTIONS OF VAPOR DEPOSITED URANIUM ON POLYCRYSTALLINE TUNGSTEN FOIL 67-10 M15-79570
EVAPORATED METAL FILMS ON FERROELECTRIC CRYSTALS 67-11 M15-81474
DETERMINATION OF THE REDUCED EFFECTIVE MASS IN ZINC SELENIDE 67-11 M16-81689
REDUCTION IN THE SURFACE TENSION OF SOLID METALS DUE TO ATOMS OF LIQUID SURFACE-ACTIVE METALS ADSORBED ON THEIR SURFACE 67-12 M15-82180
INVESTIGATION OF THE STRUCTURE AND CERTAIN ELECTRICAL CHARACTERISTICS OF CHROMOSILICON FILMS DURING HEAT TREATMENT 67-12 M15-82794
ELECTRICAL CONDUCTIVITY AND HALL EFFECT IN THIN VANADIUM FILMS 67-12 M15-83272
THE MAGNETIC AND ELECTRICAL PROPETIES OF IRON-GADOLINIUM FILMS 67-12 M15-83306
SCHOTTKY FIELD EMISSION THROUGH AL-AL2O3-AL STRUCTURES 67-12 M16-81848

THIN FILMS, QUALITY CONTROL
A CONTACTLESS METHOD FOR MEASURING SPECIFIC RESISTANCE OF SEMICONDUCTOR PLATES AND EPITAXIAL LAYERS 67-03 M15-65075
CONTACTLESS METHOD FOR MEASURING THE SPECIFIC RESISTANCE OF SEMICONDUCTOR PLATES AND EPITAXIAL LAYERS 67-07 M15-72966

THIN FILMS, RADIATION EFFECTS
INFLUENCE OF GAMMA RADIATION ON ELECTRICAL RESISTANCE OF VAPOR DEPOSITED THIN FILMS OF AG, AL, NI AND PERMALLOY 67-06 M16-72376
THE AMORPHISM IN POLYCRYSTALLINE GERMANIUM FILMS RESULTING FROM IRRADIATION WITH ARGON IONS 67-09 M16-76772

THIN FILMS, RADIOACTIVITY
THE DEPOSITION OF THIN FILMS OF ENRICHED URANIUM DIOXIDE 67-03 M12-65016

THIN FILMS, REACTIONS /CHEMICAL/
INTERACTION OF BORON WITH TUNGSTEN SINGLE CRYSTAL SUBSTRATES 67-02 M14-61572
THE ELECTRODE POTENTIAL OF EVAPORATED ALUMINUM FILMS IN CHLORIDE SOLUTION 67-02 M14-61774
ELECTRON MICROSCOPIC OBSERVATION ON HEAT OXIDATION OF VACUUM-DEPOSITED ALUMINIUM FILMS 67-04 M14-66998
A KINETIC STUDY OF THE HETEROGENEOUS REACTIONS OF METALLIC SODIUM WITH CHLORINE AND BROMINE 67-05 M14-68616
KINETICS OF TANTALUM CORROSION IN AQUEOUS ELECTROLYTES 67-06 M18-72172
THE OXIDATION OF VACUUM DEPOSITED THIN FILMS IN A JET STREAM OF O2 67-08 M12-75179

THIN FILMS, ROLLING
HOT ROLLING OF U AND U-AL ALLOYS 67-12 M07-82812

THIN FILMS, SEMICONDUCTORS
CARRIER-CONCENTRATION PROFILES OF N-TYPE SN AND TE DOPED EPITAXIAL GAAS FILMS 67-03 M16-65430
TEMPERATURE AND MAGNETIC FIELD DEPENDENCES OF THE JOSEPHSON CURRENT IN THE JUNCTION WITH A VERY THIN FILM OF TIN 67-03 M16-65643
RELATION OF DEGREE OF VACUUM DURING EVAPORATION TO THE CLEANLINESS OF THE METAL-SEMICONDUCTOR CONTACT 67-05 M16-68568
THIN AND THICK FILM ELECTRONICS 67-06 M16-70847

THIN FILMS, SORPTION
ADSORPTION OF GASES ON CHROMIUM FILMS 67-12 M14-82671

THIN FILMS, SPUTTERING
SIMPLIFIED OPERATIONS ANALYSIS IN CONTINUOUS SPUTTERING OF THIN FILMS 67-03 M12-65066
TANTALUM INTEGRATED CIRCUITS 67-04 M14-66881

THIN FILMS, STACKING FAULTS
INVESTIGATION OF STACKING FAULTS, DISPERSION AND COHERENT SCATTERING REGIONS AND THE MICRODEFORMATION IN CONDENSED FILMS OF PERMALLOY AND NICKEL 67-01 M13-57349
THIN FILMS, STOICHIOMETRY
NONSTOICHIOMETRY OF CADMIUM SULFIDE THIN FILMS 67-04 M15-67327
THIN FILMS, STRESSES
ORIGIN OF INTERNAL STRESSES IN ELECTRODEPOSITED METALS 67-02 M17-61173
STRESS IN FILMS OF SILICON MONOXIDE 67-03 M12-65751
THIN FILMS, SUPERCONDUCTIVITY
MAXIMUM CRITICAL MAGNETIC FIELDS IN SUPERCONDUCTING METALS 67-01 M16-58169
ANGULAR DEPENDENCE OF THE PINNING AND THE FLOW OF VORTICES IN THIN SUPERCONDUCTING FILMS 67-01 M16-58632
CRITICAL MAGNETIC FIELDS IN SUPERCONDUCTING FILMS OF INDIUM 67-02 M16-60527
CRITICAL-CURRENT BEHAVIOR IN NARROW THIN-FILM SUPERCONDUCTORS 67-02 M16-60534
MAGNETIC PROPERTIES OF THIN FILMS OF SOFT SUPERCONDUCTORS 67-02 M16-60593
PARALLEL CRITICAL FIELDS OF TYPE I TIN FILMS 67-02 M16-60594
MAGNETIC PROPERTIES OF SUPERCONDUCTING SN FILMS 67-03 M16-65646
A LAYERED SUPERCONDUCTING STRIP 67-04 M16-66492
TUNNELING INVESTIGATION OF ENERGY-GAP ANISOTROPY IN SUPERCONDUCTORS 67-04 M16-66511
SUPERCONDUCTING CRITICAL FIELDS OF NIOBIUM THIN FILMS 67-04 M16-67552
STRONG-COUPLING SUPERCONDUCTIVITY IN GALLIUM 67-06 M16-70636
EXPERIMENTAL STUDY OF SURFACE SUPERCONDUCTIVITY 67-07 M16-73634
SUPERCONDUCTING HOMOGENEOUS INTI AND PBBI FILMS EVAPORATED FROM A SINGLE SOURCE 67-08 M12-76152
THICKNESS DEPENDENCE OF KAPPA2 AND RELATED PROBLEMS FOR SUPERCONDUCTING ALLOY FILMS IN STRONG FIELDS 67-08 M16-74944
RELAXATION AND RECOMBINATION TIMES OF QUASIPARTICLES IN SUPERCONDUCTING AL THIN FILMS 67-08 M16-75785
THE INFLUENCE OF DIELECTRIC FILMS ON THE SUPERCONDUCTIVITY OF THIN SN AND TL FILMS 67-09 M16-76453
THIN FILMS, SUPERCONDUCTORS
ENERGY GAP OF V3SI 67-02 M16-60532
THIN FILMS, SURFACE PROPERTIES
TEMPERATURE EFFECT OF CONDUCTIVITY OF TELLURIUM FILMS IN A MODULATING ELECTRIC FIELD 67-04 M16-66181
DETERMINING THE TRUE SURFACE VALUE OF ZN, CD AND MG VACUUM CONDENSATES IN THE PROCESS OF OXIDATION 67-04 M18-67654
SURFACE BLISTERING OF METALS DUE TO LOW ENERGY HYDROGEN BOMBARDMENT 67-06 M16-70612
THE CHARACTERIZATION OF SOLID THIN FILMS BY ELECTRON MICROSCOPY AND DIFFRACTION 67-08 M13-74707
SORPTION OF INERT GAS IONS BY TITANIUM 67-08 M14-75045
THE ADSORPTION OF OXYGEN ON DISCONTINUOUS METAL FILMS 67-08 M14-75046
THIN FILMS, THERMAL PROPERTIES
THERMAL RELAXATION OF INDIUM FILMS ON INSULATING SUBSTRATES BETWEEN 4 AND 300 K 67-01 M15-57114
EMISSIVITY OF MOLYBDENUM DISILICIDE COATINGS 67-06 M15-72039
MEASUREMENT OF THERMAL PARAMETERS OF THIN FILMS AND PLANE-PARALLEL PLATES LOCATED ON A THERMALLY CONDUCTIVE BASE 67-11 M15-80607
ESTIMATION OF TEMPERATURE RISE IN ELECTRON BEAM HEATING OF THIN FILMS 67-12 M15-83274
THIN FILMS, THERMODYNAMICS
THERMODYNAMIC PROPERTIES OF THIN SUPERCONDUCTING FILMS 67-04 M16-66479
OSCILLATIONS OF ELECTRONIC THERMODYNAMIC CHARACTERISTICS OF A METAL FILM AT HIGH PRESSURES 67-06 M16-71912
THIN FILMS, THERMOELECTRICITY
ELECTRICAL AND THERMOELECTRICAL PROPERTIES OF THIN COPPER FILMS 67-07 M15-72575
THIN FILMS, THICKNESS
A SURVEY OF THIN FILM THICKNESS MEASUREMENT METHODS 67-08 M19-74712
OPTIMIZATION OF THE TOLANSKY TECHNIQUE FOR THIN FILM THICKNESS MEASUREMENTS 67-08 M19-74713
THIN FILMS, TRANSPORT PROPERTIES
EFFECT OF SUBSTRATE TEMPERATURE ON HALL COEFFICIENT OF THIN FILMS 67-01 M15-57214
QUANTUM SIZE EFFECT IN THIN BISMUTH FILMS 67-01 M15-58736
DEPOSITION OF SILICA FILMS BY THE GLOW DISCHARGE TECHNIQUE 67-02 M12-61769
PROPERTIES OF MERCURY TELLURIDE THIN FILMS 67-03 M16-65735
HALL EFFECT IN FE THIN FILMS 67-04 M15-67728
PHOTOCONDUCTION AND TRAPPING IN SPUTTERED TANTALUM OXIDE FILMS 67-05 M15-68283
THERMOELECTRICAL PROPERTIES OF TIN THIN FILMS 67-05 M15-69670
PREPARATION OF CDS AND CD --S, SE-- EVAPORATED LAYERS AND THEIR PHOTOELECTRIC PROPERTIES 67-05 M15-69881
MECHANISM OF SCATTERING OF ELECTRONS IN IN203 FILMS 67-06 M16-71923
SURFACE TRANSPORT PHENOMENA IN PBS% EPITAXIAL FILMS 67-07 M16-73944
PREPARATION OF HIGH-MOBILITY THIN FILMS OF INDIUM ANTIMONIDE 67-08 M14-75161
ELECTRICAL CONDUCTION IN THIN METAL FILMS 67-08 M15-74716
BALLISTIC MEAN-FREE PATH MEASUREMENTS OF HOT ELECTRONS IN METAL FILMS 67-08 M15-74719
THIN FILM SEMICONDUCTORS 67-08 M15-75159
STRUCTURE AND GROWTH OF THIN FILMS ON METALS EXPOSED TO OXYGEN 67-09 M14-76645
EFFECT OF STRESS ON THE HALL COEFFICIENT OF CHROMIUM FILMS 67-09 M16-77428
BEHAVIOR OF ULTRATHIN ZIRCONIUM FILMS UPON EXPOSURE TO OXYGEN 67-09 M16-77446
SOME OBSERVATIONS ON THE ELECTROMIGRATION IN ALUMINUM FILMS 67-10 M15-78870
SEEBECK COEFFICIENT OF THIN-FILM GERMANIUM 67-12 M15-82361
HALL EFFECT IN THIN METAL FILMS 67-12 M15-82369
THIN FILMS, VAPOR DEPOSITION
A LABORATORY INSTALLATION FOR PREPARING THIN MULTILAYER FILMS BY VACUUM DEPOSITION 67-02 M12-58840
A MICRORELIEF OF THE SURFACE OF BE CONDENSATES 67-04 M13-67928
THIN FILMS, WAVE MECHANICS
THEORY OF MAGNETOELASTIC INTERACTION IN THIN MAGNETIC FILM 67-04 M16-66493
THIN FILMS, WELDING
ULTRASONIC WELDING WITH PULSED INDIRECT HEATING OF MICROCIRCUIT ELEMENTS 67-04 M11-66812
THE ULTRASONIC WELDING OF MICROCIRCUIT COMPONENTS 67-08 M11-75916
ULTRASONIC WELDING OF ALUMINUM CONDUCTORS TO SPUTTERED GOLD FOILS 67-09 M11-78124
TEMPERATURE DISTRIBUTION DURING PRESSURE WELDING WITH INDIRECT PULSE HEATING 67-12 M19-82628
THIN FILMS, X RAY ANALYSIS
X-RAY FLUORESCENCE ANALYSIS FOR THE ABSOLUTE DETERMINATION OF THE THICKNESS OF THIN FILMS OF ELEMENTS 67-04 M19-67059
METHODS FOR INTERPRETING ELECTRON DIFFRACTION PATTERNS OF THIN ALLOY FILMS 67-05 M13-68439
A SPECIAL METHOD OF POLE FIGURE ANALYSIS OF CDS FILMS 67-08 M13-74709
DETERMINATION OF THE THICKNESS OF ALUMINUM ON SILICON BY X-RAY FLUORESCENCE 67-09 M19-76628
REFLECTION OF SOFT X-RAYS FROM THIN LAYERS OF ALUMINUM AND CHROMIUM 67-10 M16-79454
AN X-RAY DIFFRACTION METHOD OF DETERMINING THE THICKNESS OF THIN NICKEL COATINGS WITHOUT USING STANDARDS 67-12 M19-82304
THIN FOIL
SEE METAL FOILS
THOMAS PROCESS
SEE BASIC BESSEMER CONVERTERS
THORIUM, ALLOYING ADDITIVE
ELASTIC PROPERTIES OF THORIATED W-MO AND W-MO-RE ALLOYS 67-06 M17-70799
THORIUM, BINARY SYSTEMS
TH-THC PHASE DIAGRAM 67-04 M13-66274
PHASE DIAGRAMS OF THE TH-PR AND TH-ND SYSTEMS

67-06 M14-69991

THORIUM, COMPOSITE MATERIALS
A NEW TYPE OF COMPOSITE ALL-METAL ELECTRON EMITTER FOR VALVES AND ELECTRON-OPTICAL DEVICES 67-08 M15-74394

THORIUM, CRYSTAL LATTICES
THE LATTICE PARAMETER OF HIGH-PURITY THORIUM WITH REFERENCE TO IMPURITY CONTENT AND HEAT-TREATMENT 67-09 M13-77475

THORIUM, DESORPTION
DESORPTION OF SURFACE ATOMS BY EMERGING HIGH-ENERGY ELECTRONS 67-10 M14-78869

THORIUM, DIFFUSION
DIFFUSION OF THORIUM, PROTACTINIUM AND URANIUM IN FACE-CENTERED CUBIC THORIUM 67-07 M14-74235
STRUCTURAL DEPENDENCE OF THE TRACER-LEVEL DIFFUSION OF THORIUM IN PYROLYTIC CARBONS 67-12 M14-82370

THORIUM, ELECTRICAL PROPERTIES
RESISTIVITY OF VERY PURE TH AND TH-RARE-EARTH ALLOYS 67-05 M15-69805
EFFECT OF CARBON ON THE ELECTRICAL RESISTIVITY AND ALLOTROPIC TRANSFORMATION OF THORIUM 67-10 M15-79595

THORIUM, EXTRACTION
THE STUDIES ON THE POSSIBILITIES OF THORIUM RECOVERING FROM POLISH THORIUM ORES 67-02 M03-59129
AN INTENSIFIED METHOD OF EXTRACTING THORIUM AND RARE EARTHS FROM MONAZITE BY TREATING IT WITH ALKALIS 67-06 M03-69969
ION EXTRACTION BY FOAM. SEPARATION OF URANIUM FROM THORIUM IN HYDROCHLORIDE MEDIUM 67-06 M03-71018
STUDIES ON THE SOLVENT EXTRACTION OF ACTINIDE ELEMENTS BY ORGANOPHOSPHORUS COMPOUNDS 67-08 M03-75302
SEPARATION AND PURIFICATION OF THORIUM FROM EGYPTIAN MONAZITE SANDS 67-10 M03-79053

THORIUM, INTERMETALLICS
X-RAY STUDIES IN THE SYSTEM THNI5-XALX 67-10 M13-78670

THORIUM, MECHANICAL PROPERTIES
DEFORMATION CHARACTERISTICS OF POLYCRYSTALLINE THORIUM FROM 78 TO 473 K 67-12 M17-82560

THORIUM, NUCLEAR FUELS
THORIUM 67-09 M16-77310
URANIUM AND THORIUM OXIDES--PROPERTIES AND BEHAVIOR 67-09 M16-77314

THORIUM, PHASE TRANSFORMATIONS
THE EFFECT OF CERTAIN RARE-EARTH SOLUTES UPON THE FCC-BCC TRANSFORMATION TEMPERATURE OF THORIUM 67-01 M14-58532

THORIUM, REACTIONS /CHEMICAL/
THORIUM 67-06 M14-70481

THORIUM, REFINING
ELECTROTRANSPORT OF CARBON, NITROGEN, AND OXYGEN IN THORIUM 67-01 M14-57416
OBTAINING PURE METALS BY CHEMICAL METHODS 67-04 M03-67843
STUDIES ON THE REDUCTION OF THORIA BY CALCIUM 67-09 M03-77254

THORIUM, SOLID SOLUTIONS
THE LATTICE SPACINGS OF THORIUM-RICH SOLID SOLUTIONS WITH PRASEODYMIUM, SAMARIUM, GADOLINIUM AND ERBIUM 67-03 M13-65127

THORIUM, SUPERCONDUCTIVITY
SUPERCONDUCTIVITY OF THORIUM AND URANIUM 67-02 M15-61571

THORIUM, TERNARY SYSTEMS
HIGH TEMPERATURE PHASE-EQUILIBRIA IN THE TH-U-C SYSTEM IN THE PRESENCE OF FREE CARBON 67-04 M14-66240
CONSTITUTIONAL STUDIES ON THE TERNARY SYSTEM PLUTONIUM-MOLYBDENUM-CARBON, PLUTONIUM-SILICON-CARBON AND PLUTONIUM-THORIUM-CARBON 67-09 M14-76345
LATTICE SPACINGS AND EFFECTIVE ATOMIC DIAMETERS IN THE TERNARY SYSTEM TH-CE-ZR 67-10 M16-78669
LATTICE SPACINGS AND EFFECTIVE ATOMIC DIAMETERS IN THE TERNARY SYSTEMS FORMED BY TH AND CE WITH Y, LA, GD AND ER, AND BY TH, PR AND Y 67-11 M13-80308

THORIUM BASE ALLOYS, CRYSTAL LATTICES
MISCIBILITY GAP IN THE TH-THC SYSTEM FROM HIGH-TEMPERATURE X-RAY DATA 67-10 M13-79594

THORIUM BASE ALLOYS, ELECTRICAL PROPERTIES
RESISTIVITY OF VERY PURE TH AND TH-RARE-EARTH ALLOYS 67-05 M15-69805
ELECTRICAL RESISTIVITY AND PHASE RELATIONS FOR THE THORIUM-CARBON SYSTEM 67-10 M15-79596

THORIUM BASE ALLOYS, MAGNETIC PROPERTIES
MAGNETIC PROPERTIES OF SOME ALLOYS OF THORIUM WITH HOLMIUM AND ERBIUM 67-07 M15-73586

THORIUM BASE ALLOYS, SOLID SOLUTIONS
THE LATTICE SPACINGS OF THORIUM-RICH SOLID SOLUTIONS WITH PRASEODYMIUM, SAMARIUM, GADOLINIUM AND ERBIUM 67-03 M13-65127

THORIUM BASE ALLOYS, SUPERCONDUCTIVITY
MEISSNER EFFECT FOR SUPERCONDUCTORS WITH MAGNETIC IMPURITIES 67-08 M16-74400

THORIUM COMPOUNDS, ALLOYING ADDITIVE
DISPERSION-STRENGTHENED COBALT ALLOYS 67-01 M14-58646
THE INFLUENCE OF A FINE DISPERSION ON THE CLEAVAGE STRENGTH OF IRON 67-12 M17-82963
THE FATIGUE AND TENSILE FRACTURE OF TD-NICKEL 67-12 M17-82972

THORIUM COMPOUNDS, ATOMIC PROPERTIES
BOND AND MOLECULAR POLARIZABILITIES, MEAN AMPLITUDES OF VIBRATION AND THERMODYNAMIC FUNCTIONS OF THORIUM OXIDE AND ZIRCONIUM OXIDE 67-09 M16-77526

THORIUM COMPOUNDS, BINARY SYSTEMS
TH-THC PHASE DIAGRAM 67-04 M13-66274

THORIUM COMPOUNDS, CHEMICAL ANALYSIS
RADIOMETRIC DETERMINATION OF THORIUM IN MIXED OXALATES OF URANIUM AND THORIUM 67-12 M19-82270

THORIUM COMPOUNDS, COATING
CARBON-COATED CARBIDE PARTICLES FOR NUCLEAR FUEL ELEMENTS 67-02 M16-60713

THORIUM COMPOUNDS, CRYSTAL GROWTH
THORIA SINGLE CRYSTALS GROWN BY VAPOR DEPOSITION IN A SOLAR FURNACE 67-05 M14-68286

THORIUM COMPOUNDS, HEAT TREATMENT
HEAT TREATMENT OF URANIUM AND URANIUM-THORIUM OXIDES PRODUCED BY SOL-GEL PROCESS 67-02 M10-59413

THORIUM COMPOUNDS, METALLOGRAPHY
A TECHNIQUE FOR PREPARING SAMPLES OF SMALL FRAGILE PARTICLES FOR ELECTRON MICROSCOPE EXAMINATION BY MEANS OF REPLICAS 67-01 M13-58543

THORIUM COMPOUNDS, PHASES /STATE OF MATTER/
FUSIBILITY CURVE OF THE KCL-THCL4 SYSTEM 67-02 M13-61725

THORIUM COMPOUNDS, PHYSICAL PROPERTIES
THE RELATIONSHIP OF PHYSICAL PROPERTIES, MICROSTRUCTURE, AND FABRICATION 67-02 M15-60707
ELECTRICAL RESISTIVITY, MAGNETIC SUSCEPTIBILITY, AND THERMAL EXPANSION OF THORIUM MONOCARBIDE 67-07 M15-74239
EVALUATION OF THE DEBYE TEMPERATURE OF THORIUM DIOXIDE 67-11 M15-80603

THORIUM COMPOUNDS, POWDER METALLURGY
ATOMIZING TECHNIQUES AS AUXILIARY MEANS IN THE POWDER SINTERING PROCESS 67-02 M09-58932
OXIDE DISPERSION-STRENGTHENED PLATINUM 67-05 M09-68945
EFFECT OF ISOSTATIC PRESSURE ON SINTERING 67-10 M09-79433
SINTERING OF PURE THORIUM OXIDE 67-12 M09-82056

THORIUM COMPOUNDS, RADIATION EFFECTS
DIRECT OBSERVATION OF FISSION FRAGMENT DAMAGE IN SOME CERAMIC OXIDES 67-04 M16-67459

THORIUM COMPOUNDS, REACTIONS /CHEMICAL/
THE REACTION OF SOME NOBLE AND TRANSITION METALS WITH REFRACTORY CARBIDES 67-06 M14-70892
A METHOD FOR PREPARING DENSE SPHERICAL PARTICLES OF THORIUM AND THORIUM-URANIUM DICARBIDES 67-07 M09-73151
PREPARATION OF THORIUM CARBIDES 67-09 M14-76753

THORIUM COMPOUNDS, REDUCTION /CHEMICAL/
THE BEHAVIOR OF FLUX CACL2 IN THE CALCIUM REDUCTION PROCESS OF THO2 67-09 M03-78235

THORIUM COMPOUNDS, SEMICONDUCTORS
ELECTRICAL PROPERTIES OF NONSTOICHIOMETRIC THORIUM CARBIDES 67-12 M15-82364

THORIUM COMPOUNDS, SINTERING
ON THE EFFECT OF TIO2 ADDITIONS ON SINTERING OF UO2 67-03 M14-65857
EXPERIMENTAL STUDY OF PRODUCTION OF THO2 AND THO2-UO2 PELLETS 67-04 M03-68037

THORIUM COMPOUNDS, THERMAL PROPERTIES
URANIUM AND THORIUM OXIDES 67-11 M15-80462
THORIUM COMPOUNDS, THERMODYNAMICS
REVIEW OF THE SCIENCE OF CERAMIC MATERIALS 67-02 M05-60702
THERMODYNAMIC PROPERTIES AND NONSTOICHIOMETRY OF OF
THORIUM DICARBIDE 67-07 M15-74227
THERMODYNAMIC PROPERTIES AND NONSTOICHIOMETRY OF THORIUM MONOCARBIDE 67-07 M15-74228
THREAD CUTTING
TAPPING AN IMPOSSIBLE STEEL 67-03 M08-65942
MACHINING OPERATIONS FACILITATED WITH ROCOL SOLUBLE OIL 67-06 M08-70708
TAPS FOR CUTTING THREADS IN A QUENCHED HIGH-MANGANESE STEEL 67-07 M08-74290
WEAR AND LIFE OF TOOL FOR ROLLING INTERNAL THREADS 67-07 M08-74291
THREAD ROLLING
AUTOMATED THREAD ROLLING 67-01 M08-58497
EFFECT OF PARTIAL DECARBURIZATION ON FATIGUE STRENGTH OF BOLTS 67-04 M17-66994
THREAD ROLLING--FEEDS, REVS AND BLANK DESIGN 67-05 M08-69022
THREAD-FORMING BY NONCUTTING OR SCRAPLESS DEFORMATION. PT. 2 67-06 M08-70556
COMBINED ROLLING AND CALIBRATION OF LARGE-GAGE THREADS 67-12 M07-81795
THREADS
SEE SCREW THREADS
THREADS /FILAMENTS/, DEPOSITION
CONTINUOUS SILICON CARBIDE FILAMENTS 67-07 M09-73351
THREADS /FILAMENTS/, FIBER METALLURGY
RESEARCH ON BORON FILAMENTS AND BORON-REINFORCED COMPOSITES 67-07 M09-73340
BORON FILAMENT FOR STRUCTURAL COMPOSITES 67-07 M09-73348
THE FABRICATION AND MECHANICAL PROPERTIES OF SIC FILAMENT-METAL MATRIX COMPOSITES 67-07 M09-73366
THREADS /FILAMENTS/, MECHANICAL PROPERTIES
BORON CARBIDE FILAMENTS FROM ORGANOBORANES 67-07 M09-73350
STRESS-RUPTURE AND TENSILE TEST TECHNIQUES FOR SINGLE BORON FILAMENTS AT ROOM AND ELEVATED TEMPERATURES 67-07 M09-73367
THREADS /FILAMENTS/, NONDESTRUCTIVE TESTING
PROPERTIES DETERMINATION AND PROCESS CONTROL OF BORON FILAMENT COMPOSITES USING NONDESTRUCTIVE TEST METHODS 67-07 M09-73368
THREADS /FILAMENTS/, REACTIONS /CHEMICAL/
MODIFIED SILICON-CARBIDE CONTINUOUS FILAMENTS 67-07 M09-73352
THREE ROLL FORMING
SEE ROLL BENDING
THROATS
ACTION OF A THROAT ARMOUR OF VARIABLE DIAMETER ON THE GAS FLOW IN A BLAST FURNACE 67-06 M04-71438
THROWING POWER
THROWING POWER OF CUSO4-5H2O-H2SO4-H2O 67-01 M12-58707
THROWING POWER OF NICKEL BARREL PLATING 67-02 M12-59160
THE EFFECT OF THE THROWING POWER OF SN-PB ELECTROLYTES ON THE UNIFORMITY OF LAYER THICKNESS IN PRODUCTION ELECTROPLATING 67-08 M12-75503
SOME REGULARITIES IN ELECTRODEPOSITION OF ZINC COATINGS FROM POLYETHYLENE POLYAMINE ELECTROLYTES 67-10 M12-78533
THRUST BEARINGS
SEE TAPER ROLLER BEARINGS
THULIUM, GETTERS
A NEW GETTER SYSTEM FOR OPAQUE VACUUM TUBES, USING SAMARIUM OR THULIUM 67-06 M20-71493
THULIUM, MAGNETIC PROPERTIES
ANALYSIS OF THE MAGNETIC HYPERFINE STRUCTURE OBSERVED USING THE MOSSBAUER EFFECT IN TM METAL 67-08 M16-75835
APPROACH TO MAGNETIC SATURATION IN SINGLE CRYSTAL THULIUM AT 4.2 K AND 140 KG 67-12 M15-81850
THULIUM, NUCLEAR PROPERTIES
OBSERVATION OF THE PR141 AND TM169 NUCLEAR MAGNETIC RESONANCES IN THE PARAMAGNETIC STATES OF RARE-EARTH INTERMETALLIC COMPOUNDS 67-11 M16-80406
THULIUM, PHASE TRANSFORMATIONS
A MOSSBAUER EFFECT INVESTIGATION OF THE CRYSTALLINE ELECTRIC FIELD IN THULIUM METAL 67-06 M16-71988
THULIUM, THERMAL PROPERTIES
SPECIFIC HEAT OF GADOLINIUM, TERBIUM, DYSPROSIUM, HOLMIUM, AND THULIUM METALS BETWEEN 3 AND 25 K 67-01 M15-58750
THULIUM BASE ALLOYS, CRYSTAL LATTICES
COMPOUNDS OF EUNI5, TMNI5 AND LUNI5 AND THEIR CRYSTALLINE STRUCTURES 67-09 M13-76826
THULIUM COMPOUNDS, REFINING
ON LANTHANO-AND CERIUM-THERMAL REDUCTION OF THULIUM OXIDE 67-09 M03-76953
THYRISTORS
APPLICATION AND MAINTENANCE EXPERIENCE WITH THYRISTOR POWDERED ROLLING MILLS 67-10 M07-78615
THE MICROSTRUCTURE OF THE MO-BASE FUSION ZONE IN SI-THYRISTOR DEVICES 67-11 M13-80836
EFFECTS OF IMPERFECTIONS ON THE FORWARD-BLOCKING BEHAVIOR OF DIFFUSED-ALLOYED SILICON DEVICES 67-11 M16-80833
TIG ARC WELDING
SEE GAS TUNGSTEN ARC WELDING
TILE /MATERIAL/, CASTING
CASTING LINING TILES INTO PREHEATED SAND MOLDS 67-02 M05-61803
CASTING LINING TILES IN HEATED SAND MOULDS 67-09 M05-78075
TILTING FURNACES
SEE ACID CONVERTERS
BASIC BESSEMER CONVERTERS
BASIC CONVERTERS
BESSEMER CONVERTERS
BOTTOM BLOWN CONVERTERS
LD CONVERTERS
OXYGEN BLOWN CONVERTERS
STEEL CONVERTERS
TILTING OPENHEARTH FURNACES
TOP BLOWN CONVERTERS
TILTING OPENHEARTH FURNACES
DEVELOPMENT OF RAPID CHARGING OF OH FURNACES AT GKIS 67-06 M04-72100
IRON FOR STEELMAKING AT APPLEBY-FRODINGHAM 67-07 M04-72412
TILTING OPENHEARTH FURNACES, DESIGN
IMPROVING OPEN-HEARTH FURNACE DESIGN 67-04 M04-66207
TIME QUENCHING
SEE INTERRUPTED QUENCHING
TIN, ALLOYING ADDITIVE
CAST IRONS WITH TIN ADDITIONS 67-01 M01-57521
MARTENSITE IN TERNARY CU-ZN-BASED BETA-PHASE ALLOYS 67-03 M14-65079
THE INFLUENCE OF ALLOYING ELEMENTS ON ALUMINUM ANODES IN SEA WATER 67-03 M18-65473
ELECTRICAL PROPERTIES OF PURE BISMUTH AND ITS ALLOYS WITH TIN IN A WIDE TEMPERATURE RANGE 67-04 M15-66016
EFFECTS OF GERMANIUM AND TIN ON THE PHOTOELECTRIC PROPERTIES OF ARSENIC SELENIDE 67-05 M16-69386
GALVANOMAGNETIC EFFECTS AND MAGNETIC SUSCEPTIBILITY OF TIN-DOPED BISMUTH CRYSTALS 67-05 M16-69752
TEMPERATURE DEPENDENCE OF THE MECHANICAL PROPERTIES, MICROSTRUCTURE AND STACKING FAULT ENERGY OF AN ARSENIC-CONTAINING ALUMINUM BRONZE OF THE CUAL15-TYPE 67-05 M17-69586
TIN ADDITIONS TO AID THE SINTERING OF IRON POWDER 67-06 M09-70884
ON THE SELECTION OF ALLOYING ELEMENTS FOR THE PRODUCTION OF TITANIUM-BASE HEAT RESISTANT ALLOYS 67-06 M17-69990
THE YIELD POINT OF ALPHA-COPPER-TIN ALLOYS 67-06 M17-70991
WORK HARDENING DATA OF ALPHA-COPPER-TIN-ALLOYS 67-06 M17-71658
CHANGE OF MAGNETIC PROPERTIES OF DILUTE GOLD-CHROMIUM ALLOYS BY SUBSTITUTIONS OF TIN, ALUMINUM, AND COPPER FOR GOLD 67-07 M15-73560
TIN ADDITIONS TO AID THE SINTERING OF IRON POWDER 67-08 M09-74671
NONLINEAR AND NONLOCAL EFFECTS ON THE CRITICAL MAGNETIC FIELD FOR SUPERCONDUCTING IN-SN ALLOYED FILMS 67-08 M16-75081
HIGH TEMPERATURE OXIDATION OF MILD STEELS CONTAINING ARSENIC AND TIN AS TRAMP ELEMENTS

67-09 M18-78133
THE SOLUBILITY OF LEAD IN LIQUID ALUMINUM ALLOYS AT DIFFERENT TEMPERATURES 67-11 M14-81636
EFFECT OF TIN ON THE STRUCTURE AND PROPERTIES OF GRAY CAST IRON 67-12 M06-82098
THE MORPHOLOGY AND MORPHOLOGICAL STABILITY OF LARGE PRECIPITATES FORMED IN CUZN AND CUZN SN 67-12 M14-82759

TIN, ALLOYING EFFECTS
THE EFFECTS OF TIN ON THE TRANSITION TEMPERATURE OF 30KHGSA STRUCTURAL STEEL 67-10 M17-78935

TIN, ATOMIC PROPERTIES
ISOMER SHIFTS ON SN119 IMPURITY NUCLEI IN PD-H ALLOYS 67-07 M16-73705

TIN, BAND THEORY
NEW STUDIES OF THE BAND STRUCTURE OF THE DIAMOND-TYPE CRYSTALS 67-04 M16-66739
BAND STRUCTURE OF GRAY TIN UNDER UNIAXIAL STRESS 67-08 M16-75004
ABSORPTION MEASUREMENTS OF COPPER, SILVER, TIN, GOLD AND BISMUTH IN THE FAR ULTRAVIOLET 67-11 M16-80771

TIN, BINARY SYSTEMS
THE CRYSTALLINE STRUCTURE AND STRUCTURAL RELATIONSHIP OF THE GAMMA AND EPSILON PHASES IN THE SYSTEM CU-SN 67-01 M14-58625
THE STUDY OF FUSING OF VARIOUS ALLOYS MADE BY MEANS OF X-RAY FLUORESCENCE ANALYSIS 67-02 M14-60122
A CALORIMETRIC INVESTIGATION OF LIQUID GOLD-TIN ALLOYS 67-02 M15-60647
DIFFUSION OF SILVER IN MOLTEN LEAD-TIN ALLOYS 67-03 M14-65847
DIFFUSION OF SILVER IN MOLTEN LEAD-BISMUTH AND TIN-BISMUTH ALLOYS 67-03 M14-65848
PHASE EQUILIBRIA IN THE NB-SN SYSTEM 67-04 M13-67266
STUDY OF THE MG2SN-MG2SI SYSTEM 67-04 M13-67939
THE CONSTITUTION OF SN-TL ALLOYS 67-04 M13-68125
FORMATION AND GROWTH OF INTERMETALLIC COMPOUNDS IN THE CU-ZN SYSTEM 67-04 M14-66014
SELF-DIFFUSION OF ANTIMONY IN SB-SN AND SB-PB LIQUID ALLOYS 67-04 M14-67389
INVESTIGATION OF THE TEMPERATURE DEPENDENCE OF THE RESISTIVITY AND THERMO-EMF OF BISMUTH-CADMIUM AND BISMUTH-TIN MELTS OF EUTECTIC COMPOSITIONS 67-04 M15-67053
EFFECT OF THE TEMPERATURE ON THE CHANGE IN THE CONCENTRATION OF CONDUCTION ELECTRONS IN BISMUTH DUE TO THE PRESENCE OF ELEMENTS OF THE 4 AND 6 GROUPS 67-04 M16-67052
ON THE FUSIBILITY DIAGRAM OF THE TIN-SELENIUM SYSTEM 67-05 M13-68404
PHASE DIAGRAM OF THE NIOBIUM-TIN SYSTEM 67-05 M13-68450
NUCLEAR MAGNETIC RESONANCE IN LIQUID GALLIUM ALLOYS 67-05 M16-69785
SOLUBILITY OF GALLIUM IN SOLID TIN 67-06 M13-70105
SELF-DIFFUSION IN MOLTEN ALLOYS OF SN-SB, SN-PB AND SN-ZN 67-06 M14-70904
THE RELATION OF SHAPE OF THE HOMOGENEITY FIELD 67-06 M16-70319
AN INTERPRETATION OF THE SUPERPLASTICITY PHENOMENON IN TWO-PHASE ALLOYS 67-06 M17-71075
PHASE RELATIONS AND THERMOELECTRIC PROPERTIES OF THE ALLOY SYSTEMS, SNTE-BI2TE3 AND PBTE-SB2TE3 67-07 M14-73462
SUPERCONDUCTING TRANSITION TEMPERATURE AND ELECTRONIC STRUCTURE IN THE PSEUDOBINARIES NB3AL-NB3SN AND NB3SN-NB3SB 67-07 M16-73640
THE ALPHA-GAMMA EQUILIBRIUM IN FE-MN, FE-MO, FE-NI, FE-SB, FE-SN AND FE-W SYSTEMS 67-08 M13-75813
THE STRUCTURES OF THE BI-SN, BI-PB AND BI-TL EUTECTICS 67-08 M13-76053
THE TIN-IRON SYSTEM. PT. 1. THE PHASE DIAGRAM LIQUIDUS BOUNDARIES 67-08 M13-76062
THE STRUCTURE OF SOME EUTECTICS WITH HIGH RATIOS OF THE VOLUME FRACTIONS 67-08 M14-76054
ON THE TIN-SULFUR FUSIBILITY CURVE 67-09 M13-76853
HEAT OF MIXING OF ANTIMONY WITH B-METALS. PT. 3. THE SYSTEM WITH TIN AND LEAD 67-10 M15-78741
A NOTE ON THE ELECTRICAL RESISTIVITY OF SOME 1-4 AND 3-5 LIQUID ALLOY SYSTEMS 67-11 M15-81571
THERMODYNAMIC STUDY OF THE MERCURY-TIN SYSTEM 67-12 M13-83104
STUDY OF BISMUTH-TIN ALLOYS IN THE SOLID AND LIQUID STATES IN RELATION TO THE PHASE DIAGRAM 67-12 M13-83360
THE DENDRITE-EUTECTIC TRANSITION 67-12 M14-82863
THE EFFECT OF AN ELECTRIC FIELD UPON SOLUTE REDISTRIBUTION DURING SOLIDIFICATION OF BI-SN ALLOYS 67-12 M14-82968

TIN, BRAZING
OBSERVATIONS ON THE USE OF BRAZING IN ELECTRICAL INDUSTRIES AND ELECTRONICS 67-02 M11-60989

TIN, CASTING
CONTINUOUS CASTING OF NON-FERROUS METAL BILLETS AND SLABS. PT. 1 67-02 M03-61644
CONTINUOUS PRODUCTION OF WIRE, TAPE AND NARROW STRIP 67-05 M06-69593
METHODS OF TREATING METAL AND STEEL MELTS BY VIBRATION WITH EMPHASIS ON GRAIN REFINEMENT BY TREATING WITH ULTRASONIC WAVES DURING SOLIDIFICATION 67-09 M06-77845

TIN, CHEMICAL ANALYSIS
POLAROGRAPHIC METHODS OF SIMULTANEOUS DETERMINATION OF TIN, NICKEL, LEAD AND ZINC IN BRONZE 67-01 M19-57495
DIRECT ELECTROCHEMICAL DETERMINATION OF THE OXYGEN CONTENT OF METAL MELTS. PT. 2. INVESTIGATIONS CARRIED OUT ON SILVER, TIN AND LEAD MELTS 67-09 M19-77190

TIN, COATING
ELECTRODEPOSITION OF SOME METALS FROM TETRAMETHYLUREA 67-03 M12-65809
DEVELOPMENTS AND TENDENCIES IN PRECIOUS-METAL ELECTROPLATING. PT. 4 67-07 M12-73820

TIN, COATINGS
NEW METALLIC COATINGS AND TREATMENTS FOR CONTAINER STEEL SURFACES 67-01 M12-57547
THE DEVELOPMENT OF TIN PLATING. PT. 3. WITH SPECIAL REFERENCE TO BRIGHT-TIN ELECTRODEPOSITION 67-01 M12-57560
DEFINITION OF ELECTROLYTES AND ELECTRODEPOSITS 67-02 M12-62288
EPITAXY OF TIN ELECTRODEPOSITED ON IRON 67-04 M13-66919
NEW LOOK AT COATING THICKNESS 67-05 M19-68469
TIN COATING METHODS 67-07 M12-72488
INVESTIGATION OF INTERNAL STRESSES IN SN-NI COATINGS 67-07 M12-73652
THE LARGE-SCALE DEPOSITION OF PROTECTIVE LAYERS ON STEEL STRIP BY VACUUM DEPOSITION 67-08 M12-75671
SUPERPLASTICITY IN ELECTROPLATED COMPOSITES OF LEAD AND TIN 67-12 M17-83053

TIN, CORROSION
CORROSION RESISTANCE OF TIN IN HALIDE ELECTROLYTES USED FOR TINPLATING 67-04 M18-67292
RESISTANCE OF SOME MATERIALS IN MOLTEN TIN 67-08 M18-75147

TIN, CRYSTAL GROWTH
CONTROLLED GROWTH OF TIN DENDRITES 67-06 M14-70410
TIN WHISKERS AND FILAMENTARY GROWTHS ON A THIN FILM CONDUCTOR IN RESPONSE TO DIRECT-CURRENT FLOW 67-11 M14-80831
MORPHOLOGY OF CELLULAR PRECIPITATION OF TIN FROM LEAD-TIN BICRYSTALS. PT. 2 67-11 M14-81265
METHODS OF DETERMINING THE COEFFICIENT OF IMPURITY DISTRIBUTION IN DIRECTIONAL SOLIDIFICATION 67-12 M14-82332
TEMPERATURE MEASUREMENTS AND FLUID FLOW DISTRIBUTIONS AHEAD OF SOLID-LIQUID INTERFACES 67-12 M14-82744

TIN, CRYSTAL LATTICES
CONTRIBUTION TO THE STUDY OF SOLIDIFICATION OF NUCLEI 67-02 M14-60751
TECHNIQUES OF EXPOSING DISLOCATIONS IN TIN 67-05 M13-69262

TIN, DIFFUSION
ON THE GRAIN BOUNDARY DIFFUSION OF SILVER IN TIN 67-01 M14-57296
DIFFUSION OF IRON IN SOME MOLTEN NONFERROUS METALS 67-01 M14-57515
A REVIEW OF DIFFUSION PROCESSES IN ZIRCONIUM AND ITS ALLOYS 67-02 M14-59018
SOME RELATIONSHIPS BETWEEN SELFDIFFUSION AND MELTING BEHAVIOR OF METALS 67-02 M14-60881
SPREADING OF GALLIUM ON TIN SURFACE 67-02 M14-60972
MASS-TRANSFER FROM SOLID METAL CYLINDER INTO LIQUID

METAL 67-02 M15-61852
DIFFUSION OF SN AND ZN IN SN AND IN HOMOGENEOUS SN-ZN ALLOYS 67-03 M14-65368
STUDY OF DIFFUSION ON THE PHASE BOUNDARIES 67-03 M14-65786
DIFFUSION CONSTANTS IN LIQUID LEAD-TIN ALLOYS 67-04 M14-66175
INTERSTITIAL SOLUTIONS OF NOBLE METALS IN METALS AND SEMICONDUCTORS 67-04 MI4-67540
ELECTRODIFFUSION OF SN AND HG IN THEIR ALLOYS CONTAINING GA 67-04 M14-67918
STRESS-INDUCED SOLUTE DIFFUSION ALONG DISLOCATIONS IN DILUTE COPPER ALLOYS 67-07 M14-73911
THE MECHANISM OF SUBSTITUTIONAL DIFFUSION IN SILICON 67-08 M16-75242
EFFECT OF AN INTERNAL ELECTRIC FIELD ON SIMULTANEOUS DIFFUSION OF IMPURITIES IN SEMICONDUCTORS 67-11 M14-81044
DIFFUSION OF CADMIUM AND TIN IN LIQUID BISMUTH 67-11 M14-81207
ELECTROTRANSPORT OF BISMUTH IN LIQUID TIN 67-11 M14-81273
DETERMINATION OF THE DISTRIBUTION COEFFICIENT AND DIFFUSION CONSTANTS IN DILUTE ALLOYS OF THALLIUM IN TIN 67-12 M14-82738

TIN, ELECTRICAL PROPERTIES
INVESTIGATION OF THE ELECTRICAL AND SUPERCONDUCTIVE PROPERTIES OF METALS OF DIFFERENT PURITIES. PT. 3 67-02 M16-58925
SCREENING-ENHANCED SHUBNIKOV-DE HAAS OSCILLATIONS IN SB-DOPED GRAY TIN 67-06 M16-71224

TIN, ELECTROLYSIS
INVESTIGATION OF ELECTROLYSIS OF TIN FROM SODIUM STANNATE SOLUTIONS 67-02 M03-61545

TIN, EXTRACTION
PRODUCTION OF METALS OR ALLOYS FROM ASH, SCALE AND FROM THE LIGHT FRACTION OF FUSIBLE ALLOYS 67-02 M03-59573
USE OF CARNALLITE IN CHLORINATION ROASTING 67-02 M03-59595
SLAG-METAL EQUILIBRIA IN TIN SMELTING 67-02 M03-60255
FUMING TIN-BEARING RAW MATERIAL 67-02 M03-61278
ELECTROLYTIC RECOVERY OF TIN FROM TIN-PLATE SCRAP 67-04 M03-66306
TRENDS AND PROSPECTS IN THE DEVELOPMENT OF THE TIN SMELTING PROCESS 67-04 M03-67523
REDUCTION MECHANISM OF TIN CONCENTRATE AND SLAG 67-07 M03-73412
METHOD OF RECOVERING REJECT TRANSISTORIZED DEVICES 67-10 M03-79863
ON THE TRANSFORMATION OF TIN INTO A SUBLIMATE BY VACUUM SULFURIZATION 67-12 M03-83318
THE HYDROMETALLURGICAL TREATMENT OF CHLORIDE SUBLIMATES 67-12 M03-83319
ELECTROLYZER FOR REMOVING TIN FROM TIN SCRAP OR FOR PRECIPITATING TIN FROM SOLUTIONS BY ELECTROLYSIS WITH NONCONSUMABLE ANODES 67-12 M03-83327
RECOVERY OF NONFERROUS METALS FROM METALLURGICAL FUMES 67-12 M03-83581

TIN, FERMI SURFACE
THE FERMI SURFACE OF WHITE TIN 67-01 M16-58631

TIN, HEAT TREATMENT
QUENCHING OF TIN WIRES 67-02 M14-61182

TIN, IMPURITIES
HIGH TEMPERATURE OXIDATION OF MILD STEELS CONTAINING ARSENIC AND TIN AS TRAMP ELEMENTS 67-01 M18-57491
EFFECT OF METAL IMPURITIES ON MECHANICAL PROPERTIES OF NICKEL IN TENSION 67-02 M17-62235

TIN, INTERMETALLICS
ANOMALOUS SPECIFIC HEAT OF NB3SN IN THE LIQUID HELIUM REGION 67-01 M15-58644
SUPERCONDUCTIVITY DEGRADATION IN BETA-TUNGSTEN STRUCTURE COMPOUNDS-NB3SN--CB3SN AND NB3AL 67-01 M16-57408
COLOR METALLOGRAPHY IN BLACK AND WHITE 67-02 M13-59440
THE PARTIAL STRUCTURE FACTORS OF LIQUID CU-SN 67-02 M13-60808
NUCLEAR MAGNETIC RESONANCE OF CUBIC FERROMAGNETIC COMPOUNDS CO2MNSN AND COMNSB 67-02 M16-59472
ENHANCEMENT OF SUPERCONDUCTING CRITICAL CURRENT DENSITY IN NB3SN DIFFUSION LAYERS PRODUCED BY IRRADIATION WITH PROTONS 67-03 M16-65110
SUPERCONDUCTING PROPERTIES OF NB6SN5 AND OF MUTLPHASE NB-SN ALLOYS 67-03 M16-65888
TRANSITION TEMPERATURE AND COMPOSITION OF THE SUPERCONDUCTING NB3SN-PHASE 67-05 M16-69092
NMR STUDY OF TWO ENERGY GAPS IN SUPERCONDUCTING COMPOUNDS 67-05 M16-69767
NUCLEAR MAGNETIC RESONANCE AND MOSSBAUER EFFECT STUDY OF SN119 IN RARE EARTH-TIN INTERMETALLIC COMPOUNDS 67-05 M16-69788
ELASTIC CONSTANTS AND CALCULATED LATTICE VIBRATION FREQUENCIES OF MG2SN 67-05 M17-69576
LOW TEMPERATURE STRUCTURAL TRANSFORMATION IN NB3SN 67-06 M14-70574
ULTRASONIC MEASUREMENT IN SINGLE-CRYSTAL NB3SN 67-06 M16-69917
D88 PHASES OF THE RARE EARTH ELEMENTS WITH TIN AND LEAD 67-07 M13-73437
NEUTRON DIFFRACTION STUDY OF FESN 67-08 M15-76170
FABRICATION OF MULTILAYERED NB3SN SUPERCONDUCTING WIRES 67-08 M16-75757
INTERNAL MAGNETIC FIELDS AT SN119 NUCLEI IN HEUSLER ALLOYS 67-11 M15-80783
ENERGY GAP OF SUPERCONDUCTING NB3SN 67-11 M16-80656
PROPERTIES OF SN ALLOYS CONTAINING SM, EVIDENCE FOR A NEW PHASE 67-12 M13-82513

TIN, LIQUID METALS
THERMAL CONVECTION AND CRYSTAL GROWTH 67-06 M14-71036

TIN, MAGNETIC PROPERTIES
MAGNETOACOUSTIC ATTENUATION OF CIRCULARLY POLARIZED ULTRASOUND IN SN, AL, AND SB 67-02 M15-60767
MAGNETORESISTANCE AND COUPLED ORBITS IN TIN 67-03 M15-65032
EXPERIMENTAL STUDIES OF MAGNETIC PROPERTIES OF A METAL IN THE NORMAL AND SUPERCONDUCTING STATES 67-10 M15-78397

TIN, MAGNETIC RESONANCE
PRESSURE-DEPENDENCE OF THE KNIGHT SHIFT IN POLYCRYSTALLINE BETA TIN, LEAD, AND PLATINUM 67-02 M16-60535

TIN, MECHANICAL PROPERTIES
PROBLEM OF THE INTERRELATION BETWEEN THE SPEED, TEMPERATURE AND FORCE INDICES OF HARDNESS NUMBERS 67-01 M17-58136
INDENTATION HARDNESS AND THE CREEP OF SOLIDS 67-02 M17-61291
DEFORMATION RESISTANCE OF CERTAIN DUCTILE METALS IN DEFORMATION AT A HIGH RATE 67-04 M17-67155

TIN, MELTING
STUDY OF THE EFFECT OF FREQUENCY ON MAGNETOHYDRODYNAMIC EFFECTS IN AN INDUCTION CRUCIBLE FURNACE 67-02 M06-58875
EXPERIMENTAL STUDY OF BODY MELTING IN A FUSED LIQUID SYSTEM 67-02 M15-58858

TIN, METALLOGRAPHY
A METALLOGRAPHIC METHOD FOR THE DETERMINATION OF THE SPECIFIC AREA OF POWDER MATERIALS 67-05 M13-69608

TIN, MICROSTRUCTURE
GRAIN-BOUNDARY SLIDING IN METALS 67-02 M13-61780
DIFFRACTOMETRIC STUDY OF THE RECRYSTALLIZATION OF TIN UNDER THE EFFECT OF LIQUID GALLIUM 67-02 M14-59659
COMBINED EFFECT OF SURFACE-ACTIVE AND SURFACE-INACTIVE IMPURITIES ON THE MICROSTRUCTURE OF TIN 67-05 M13-69264
GRAIN BOUNDARY MIGRATION DURING RECRYSTALLIZATION. PT. 1. ZONE-REFINED LEAD, ZINC, TIN AND BISMUTH. PT. 2. ZONE-REFINED ALUMINUM 67-06 M14-69933
SOLIDIFICATION STRUCTURES IN DIRECTIONALLY FROZEN INGOTS 67-11 M13-81333

TIN, MOSSBAUER EFFECT
EFFECT OF IMPURITIES ON ISOMER SHIFTS IN METALLIC TIN 67-05 M16-69023
NUCLEAR GAMMA RESONANCE IN HIGHLY DISPERSED TIN 67-05 M16-69030

TIN, OPTICAL PROPERTIES
OPTICAL CONSTANTS OF GERMANIUM AND GRAY TIN, THE K.P METHOD 67-10 M16-79358

TIN, PHASE TRANSFORMATIONS
KINETICS OF THE SOLID-LIQUID TRANSITION IN TIN 67-02 M14-58966
THE INFLUENCE OF LOW-FREQUENCY VIBRATION ON THE NUCLEATION OF SOLIDIFYING METALS 67-02 M14-61840
TIN IN COLD SERVICE 67-04 M14-67762
THE ELECTRON EMISSION DURING THE MELTING AND

SOLIDIFICATION OF METALS 67-05 M15-69190
THE RELATIONSHIP OF THE RATE AT WHICH ALPHA-MODIFICATION CENTERS GROW IN VERY PURE TIN TO TEMPERATURE 67-09 M14-77749

TIN, PHYSICAL PROPERTIES
THERMAL RELAXATION OF MECHANICAL VIBRATIONS IN POLYCRYSTALS 67-04 M15-67824
EXPERIMENTAL INVESTIGATION OF THE FREQUENCY DEPENDENCE OF ELECTRON ABSORPTION OF ULTRASOUND IN TIN SINGLE CRYSTALS OF VARIOUS CRYSTALLOGRAPHIC ORIENTATIONS 67-11 M15-80784

TIN, POWDER METALLURGY
A STATISTICAL INTERPRETATION OF METAL ATOMIZATION 67-08 M09-75388
DESIGN FOR POWDER METALLURGY 67-08 M09-75611

TIN, PRECIPITATION
MORPHOLOGY OF CELLULAR PRECIPITATION OF TIN FROM LEAD-TIN BICRYSTALS 67-06 M14-70425

TIN, QUATERNARY SYSTEMS
STUDY OF THE QUATERNARY SYSTEM IN-SB-CD-SN TO DETERMINE THE PHASE EQUILIBRIA IN THE SECTION OF INSB --CDSNSB2-- 67-06 M13-71119

TIN, REACTIONS /CHEMICAL/
INFLUENCE OF CARBURIZING AND CHROMIZING ON INTERACTION BETWEEN IRON AND LIQUID ZN 67-02 M18-61992
INFLUENCE OF CHLORIDE IONS ON THE RATE OF THE ELECTRODE PROCESSES UNDER CONDITIONS OF ADSORPTION OF ADDITIVES ON THE ELECTRODES 67-08 M03-74477
ANODIC PROCESS IN ACID TIN PLATING ELECTROLYTES 67-11 M12-81297

TIN, RECOVERING
A STUDY OF TIN AND LEAD DISTRIBUTION AMONG SMELTING PRODUCTS 67-06 M03-71346

TIN, REFINING
ELECTROMAGNETIC SEPARATION OF FESN2 CRYSTALS FROM LIQUID TIN 67-02 M03-59881
CONTINUOUS ZONE-TRANSPORT REFINEMENT IN SINGLE-SECTION APPARATUS 67-02 M03-62246
REFINING OF BLACK TIN FROM LEAD AND BISMUTH IN A CONTINUOUS HEAT-TREATING VACUUM FURNACE 67-08 M03-75148
EFFECT OF IMPURITY SEGREGATION DURING CONTROLLED CRYSTALLIZATION OF TIN 67-10 M13-79143

TIN, SEMICONDUCTORS
TEMPERATURE AND MAGNETIC FIELD DEPENDENCES OF THE JOSEPHSON CURRENT IN THE JUNCTION WITH A VERY THIN FILM OF TIN 67-03 M16-65643

TIN, SINGLE CRYSTALS
AN ACID SAW FOR THE STRAIN-FREE CUTTING OF SINGLE CRYSTALS 67-06 M13-71013

TIN, SOLUBILITY
THE SOLID SOLUBILITY OF TIN-ANTIMONY ALLOYS, AND ITS MICROHETEROGENIZATION 67-09 M14-76965
RATE OF SOLUTION OF ROTATING TANTALUM DISKS IN LIQUID TIN 67-09 M14-77890
THE SOLUBILITY OF CHROMIUM IN LIQUID SILVER AND MOLYBDENUM AND TUNGSTEN IN LIQUID TIN 67-12 M14-82726

TIN, SUPERCONDUCTIVITY
MAXIMUM CRITICAL MAGNETIC FIELDS IN SUPERCONDUCTING METALS 67-01 M16-58169
ANGULAR DEPENDENCE OF THE PINNING AND THE FLOW OF VORTICES IN THIN SUPERCONDUCTING FILMS 67-01 M16-58632
GEOMETRICAL RESONANCE EFFECT IN SUPERCONDUCTING SN 67-01 M16-58637
CRITICAL-CURRENT BEHAVIOR IN NARROW THIN-FILM SUPERCONDUCTORS 67-02 M16-60534
MAGNETIC PROPERTIES OF THIN FILMS OF SOFT SUPERCONDUCTORS 67-02 M16-60593
PARALLEL CRITICAL FIELDS OF TYPE I TIN FILMS 67-02 M16-60594
SUPERCONDUCTIVITY OF GERMANIUM AND SILICON AT HIGH PRESSURE 67-02 M16-60820
SUPERCONDUCTIVITY OF TIN AND LEAD AT VERY HIGH PRESSURE 67-02 M16-60821
MAGNETIC PROPERTIES OF SUPERCONDUCTING SN FILMS 67-03 M16-65646
SUPERCONDUCTING TRANSITION TEMPERATURE AND RESISTIVITY OF TIN WHISKERS AS A FUNCTION OF UNIAXIAL TENSION 67-03 M16-65748
TUNNELING INVESTIGATION OF ENERGY-GAP ANISOTROPY IN SUPERCONDUCTORS 67-04 M16-66511
ANISOTROPIC ENERGY GAP IN SUPERCONDUCTING WHITE TIN.. SEMIEMPIRICAL APPROACH 67-04 M16-68139
SEARCH FOR SURFACE SUPERCONDUCTIVITY INDUCED BY AN ELECTRIC FIELD 67-05 M16-69518
SUPERHEATING AND SUPERCOOLING IN TYPE I SUPERCONDUCTORS--TIN 67-06 M16-70464
EVIDENCE FOR THERMODYNAMIC FLUCTUATIONS IN A SUPERCONDUCTOR 67-06 M16-70639
SUPERCONDUCTING CONTACTS UNDER MECHANICAL LOADS 67-06 M16-71027
THE INFLUENCE OF DIELECTRIC FILMS ON THE SUPERCONDUCTIVITY OF THIN SN AND TL FILMS 67-09 M16-76453
THE INFLUENCE OF ALPHA IRRADIATION ON THE TRANSITION TEMPERATURE OF SUPERCONDUCTIVE TIN, INDIUM AND THALLIUM FOILS 67-10 M16-78497

TIN, SUPERCONDUCTORS
A NEW TYPE OF SUPERCONDUCTING N83SN-TAPE 67-05 M16-69848
IRREVERSIBLE MAGNETIZATION IN SUPERCONDUCTORS 67-09 M16-77014

TIN, SURFACE PROPERTIES
SURFACE TENSION OF SOLID TIN 67-03 M15-65879
THE EFFECT OF A SURFACES ROUGHNESS ON ITS WETTABILITY BY METALS 67-09 M15-76954

TIN, TERNARY SYSTEMS
THE COPPER-TIN-ARSENIC CONSTITUTION DIAGRAM. PT. 1. SOLIDIFICATION REACTIONS 67-01 M13-57419
THE COPPER-TIN-ARSENIC CONSTITUTION DIAGRAM. PT. 2. REACTIONS IN THE SOLID STATE 67-01 M13-57420
CALORIMETRIC DETERMINATION OF SOLUTE-SOLUTE INTERACTIONS IN SOME DILUTE TIN-RICH LIQUID ALLOYS 67-02 M15-59428
SURFACE TENSION OF TERNARY IDEAL METALLIC SOLUTIONS 67-03 M15-65951
THE CONSTITUTION OF ALUMINIUM-CADMIUM-TIN ALLOYS 67-05 M14-68720
PHASE DIAGRAM OF ALLOYS OF THE COPPER-GERMANIUM-TIN TERNARY SYSTEM 67-06 M13-70375
THE AU-PB-SN TERNARY SYSTEM 67-06 M14-70795
CONSTITUTIONAL SUPERCOOLING IN TIN-BASE TERNARY ALLOYS 67-07 M13-72818
THE MICROSTRUCTURES OF TERNARY EUTECTIC ALLOYS IN THE SYSTEMS CD-SN---PB, IN, TL--, AL-CU---MG, ZN, AG--, AND ZN-SN-PB 67-09 M13-76678
THE PHASE DIAGRAM OF A TERNARY SYSTEM OF COPPER-GERMANIUM-TIN ALLOYS 67-10 M13-80027
THE PHASE AB2 IN THE TERNARY SYSTEMS LA-SB-TE AND LA-SN-SB 67-10 M14-78479
THERMODYNAMIC PROPERTIES OF INDIUM-TIN-ANTIMONY LIQUID ALLOYS 67-10 M15-78747
STUDY OF THE MG2SN-MG2GE SYSTEM 67-12 M13-83354
PREDICTING THE COURSE OF HOMOGENIZATION IN MULTICOMPONENT ALLOYS 67-12 M14-82849

TIN, THERMAL PROPERTIES
THE ABSOLUTE THERMOELECTRIC POWER OF LIQUID METALS 67-01 M15-57972
DISSOLUTION CALORIMETER IN TIN AND APPLICATION TO THE STUDY OF CERTAIN ORDER-DISORDER TRANSFORMATIONS 67-04 M14-66047
INVESTIGATION OF THE HEAT CONDUCTIVITY OF CERTAIN METALS ON TRANSITION FROM THE SOLID TO THE LIQUID STATE 67-05 M15-69394
SUPERCONDUCTING-AND NORMAL-STATE THERMAL CONDUCTIVITY OF IMPURE TIN 67-05 M16-69514
ENERGY GAP AND THERMAL CONDUCTIVITY OF PURE AND IMPURE SUPERCONDUCTING TIN 67-05 M16-69515
THERMOELECTRIC POWER OF SOME METALS AND ALLOYS IN THE LIQUID STATE 67-11 M15-81047

TIN, THERMODYNAMICS
ELECTROMOTIVE-FORCE AND CALORIMETRIC STUDIES OF THERMODYNAMIC PROPERTIES OF SOLID AND LIQUID SILVER-TIN ALLOYS 67-02 M15-59421
ESTIMATION BY THE PARTITION METHOD OF THE ACTIVITY OF SMALL AMOUNTS OF IRON IN LIQUID BERYLLIUM AT 1645 K 67-03 M15-65238
SPECIFIC HEAT OF LIQUID TIN AT 1000 TO 1700 C 67-10 M15-79832

TIN, THIN FILMS
DETERMINATION OF THE THICKNESS OF AG, CD AND SN USING FLUORESCENT KALPHA X-RAYS INDUCED BY TM 170 67-12 M19-83256

TIN, TRANSPORT PROPERTIES
THE MECHANISM OF IONIC MOBILITY IN MOLTEN METALS 67-02 M15-59932
ELECTRON TRANSPORT IN POLYCRYSTALLINE TIN 67-05 M15-68854
THERMOELECTRICAL PROPERTIES OF TIN THIN FILMS 67-05 M15-69670
MECHANISM OF IONIC MOBILITY IN LIQUID METALS 67-07 M15-72587

FLUX NONFLOW IN THE FLUX-FLOW REGIME IN BULK TIN
67-10 M16-78731
ANOMALOUS SKIN EFFECT IN TIN AND INDIUM
67-10 M16-79412
EFFECT OF ELECTRICAL FIELD ON INTERCRYSTALLINE DIFFUSION IN GROUP 1 NOBLE METALS
67-12 M14-82331

TIN, ULTRASONICS
EFFECT OF STRAIN AND IMPURITIES ON THE ULTRASONIC ATTENUATION IN SUPERCONDUCTING TIN
67-04 M16-66180

TIN, WHISKERS /METALS/
NOTES ON THE GROWTH OF TIN WHISKERS
67-10 M14-80021

TIN BASE ALLOYS
GROWTH OF WHISKER CRYSTALS AND RELATED MORPHOLOGIES BY ELECTROTRANSPORT
67-01 M14-58694

TIN BASE ALLOYS, ALLOYING EFFECTS
ON SPONTANEOUS RECRYSTALLIZATION OF SN-GA SOLID SOLUTION 67-07 M14-73163

TIN BASE ALLOYS, CASTING
PRESSURE CASTING WITH CORED INSERTS--SEVERAL EXAMPLES FROM PRACTICE 67-12 M06-81754

TIN BASE ALLOYS, CHEMICAL ANALYSIS
ANALYSIS OF ALLOYING ELEMENTS IN VARIOUS ALLOYS AND DETERMINATION OF SMALL AMOUNTS OF ELEMENTS BY X-RAY FLUORESCENT SPECTROSCOPY
67-08 M19-74403

TIN BASE ALLOYS, COATING
BOND STRENGTH OF WHITE METALLING
67-11 M12-81246

TIN BASE ALLOYS, COATINGS
THE STRUCTURE OF AN ELECTRODEPOSITED COPPER-TIN ALLOY 67-04 M13-67098
STRUCTURE AND PROPERTIES OF LEAD-TIN ALLOYS
67-05 M13-69254

TIN BASE ALLOYS, CRYSTAL GROWTH
THE MECHANISMS OF CRYSTAL MULTIPLICATION DURING SOLIDIFICATION IN THE PRESENCE OF FLUID MOTION 67-12 M14-82569
TEMPERATURE MEASUREMENTS AND FLUID FLOW DISTRIBUTIONS AHEAD OF SOLID-LIQUID INTERFACES
67-12 M14-82744

TIN BASE ALLOYS, CRYSTAL LATTICES
THE PARTIAL STRUCTURE FACTORS OF LIQUID CU-SN
67-02 M13-60808

TIN BASE ALLOYS, DEPOSITION
METHOD OF ELECTRODEPOSITION OF A TIN-MOLYBDENUM ALLOY 67-05 M12-69056

TIN BASE ALLOYS, DIFFUSION
VOLUME AND GRAIN BOUNDARY DIFFUSION OF SN AND ZN IN HETEROGENEOUS SN-ZN ALLOYS 67-03 M14-65369

TIN BASE ALLOYS, ELECTRICAL PROPERTIES
EXPERIMENTAL EVIDENCE FOR A SURFACE MECHANISM FOR HYSTERESIS IN LOW-K TYPE-2 SUPERCONDUCTORS
67-02 M15-61569
THE EFFECT OF TRANSITION METAL IMPURITIES ON THE RESIDUAL RESISTIVITY OF AL, ZN, IN AND SN
67-03 M15-65687
PREDICTED RESISTIVITIES OF LIQUID SILVER-TIN ALLOYS
67-06 M15-71990
RESISTIVITY OF LIQUID LEAD-TIN ALLOYS
67-07 M15-74243
THE SEEBECK EMF FOR CERTAIN BI-, CD-, PB-, SN- AND TL-BASE ALLOYS AGAINST THE PURE SOLVENT
67-10 M15-79951

TIN BASE ALLOYS, MAGNETIC PROPERTIES
THE CRITICAL FIELDS OF SUPERCONDUCTING THIN FILMS OF TIN AND INDIUM ALLOYS 67-03 M16-65736
THE MAGNETIC SUSCEPTIBILITIES AND SN119 ISOMER SHIFTS OF SOME PD-SN ALLOYS 67-04 M15-66179

TIN BASE ALLOYS, MECHANICAL PROPERTIES
THE STUDY OF THERMAL FATIGUE OF BEARING METALS LINING ON STEEL PLATES 67-01 M17-57588
SUPERPLASTIC BEHAVIOR OF A SOLID-SOLUTION SN-1 PER CENT BI ALLOY 67-03 M17-65096
EFFECT OF ALUMINUM ON THE CHANGE IN HARDNESS OF CALCIUM BABBIT 67-06 M17-70171
PROPERTIES OF BKA BABBIT AT ELEVATED TESTING TEMPERATURES 67-06 M17-70176
THE ORIGIN OF SUPERPLASTICITY IN THE SN-5 PER CENT BI ALLOY 67-06 M17-71957
A THEORY FOR FLOW OF POLYCRYSTALS
67-11 M17-81599
RATE-SENSITIVE DEFORMATION IN TIN-LEAD ALLOYS
67-12 M17-82970

TIN BASE ALLOYS, METALLOGRAPHY
ANODIC OXIDATION OF NB-SN ALLOYS
67-03 M13-65904
METALLOGRAPHIC STUDY OF WHITE METALS
67-04 M13-68035

TIN BASE ALLOYS, MICROSTRUCTURE
COMBINED EFFECT OF SURFACE-ACTIVE AND SURFACE-INACTIVE IMPURITIES ON THE MICROSTRUCTURE OF TIN
67-05 M13-69264
THE DEPENDENCE OF THE SIZE OF THE CELLULAR INTERFACE STRUCTURE IN DILUTE BINARY ALLOYS ON SOLIDIFICATION CONDITIONS 67-05 M14-68723
DIRECT OBSERVATION OF DENDRITE REMELTING IN METAL ALLOYS 67-06 M13-69945
THE MORPHOLOGY OF SOME BINARY EUTECTIC ALLOYS
67-08 M14-74519
SEGREGATION AND GRAIN GROWTH IN DILUTE ALLOYS
67-12 M13-82879

TIN BASE ALLOYS, PHASES /STATE OF MATTER/
TEMPERATURE AFTER-EFFECTS IN TWO-PHASE ALLOYS
67-08 M15-75279
THE STRUCTURE OF THE ALUMINIUM-CADMIUM-TIN EUTECTIC
67-12 M13-81774

TIN BASE ALLOYS, PHYSICAL PROPERTIES
VAPOR PRESSURE OF LEAD AND ACTIVITY MEASUREMENTS ON LIQUID LEAD-TIN ALLOYS BY THE TORSION EFFUSION METHOD 67-12 M15-82730

TIN BASE ALLOYS, SOLDERING
SOLDERING PROBLEMS IN THE PRODUCTION OF ELECTRONIC TUBES 67-05 M11-68606

TIN BASE ALLOYS, SOLUBILITY
EFFECT OF CURRENT DENSITY ON FIELD-FREEZING EXPERIMENTS 67-12 M14-82982

TIN BASE ALLOYS, THERMAL PROPERTIES
THE CONTACT MELTING OF TIN SYSTEMS
67-07 M14-73485
STRUCTURAL FEATURES OF TIN-ANTIMONY ALLOYS IN THE LIQUID STATE 67-11 M15-81043
ACTIVITIES OF MOLTEN TIN ALLOYS FROM EMF MEASUREMENTS 67-12 M15-82458

TIN BASE ALLOYS, THERMODYNAMICS
CALORIMETRIC DETERMINATION OF SOLUTE-SOLUTE INTERACTIONS IN SOME DILUTE TIN-RICH LIQUID ALLOYS 67-02 M15-59428
THERMODYNAMIC PROPERTIES OF LIQUID SOLUTIONS OF THE ALUMINUM-TIN SYSTEM 67-02 M15-61715

TIN BASE ALLOYS, X RAY ANALYSIS
LOCAL ORDER IN LIQUID ALLOYS 67-08 M13-75340

TIN BRONZES
SEE ALSO PHOSPHOR BRONZES
DYNALLOY 6731--603-- --BRONZE GEAR ALLOY--
67-11 M01-81254

TIN BRONZES, BEARINGS
THE RELATIONSHIP BETWEEN BASIC MODES OF WEAR AND EXPERIENCE IN ENGINEERING PRACTICE
67-04 M17-66292

TIN BRONZES, BIMETALS
CARBON MIGRATION IN THE HEAT-AFFECTED ZONE OF THE BIMETAL STEEL-BRONZE 67-02 M14-61914

TIN BRONZES, BONDING
THE ADHESIVE BONDING OF METALS WITH DIFFERENT COEFFICIENTS OF THERMAL EXPANSION
67-05 M11-68939
INFLUENCE OF TECHNOLOGICAL FACTORS ON STRENGTH OF ADHESIVE BONDS 67-12 M11-81776

TIN BRONZES, BRAZING
BRAZING OF ALUMINUM BRONZE 67-01 M11-57374

TIN BRONZES, CASTING
OPERATING EXPERIENCE OF THE HORIZONTAL CASTING MACHINE IN THE CONTINUOUS CASTING OF BRONZE
67-02 M03-60966
STRONGER GEARS WITH SILICON BRONZES
67-06 M06-70241
SPACE AGE MEETS BRONZE AGE 67-10 M06-78569
SHOP FLOOR CONTROL IN COPPER ALLOY FOUNDRIES
67-10 M06-79240
CONTINUOUS SOLIDIFICATION. IMPROVED INSTALLATIONS FOR CASTING BRONZE 67-12 M03-83114
CASTING COPPER ALLOYS INTO SHELL MOLDS OF METALLIC SAND 67-12 M06-81982
CASTING PUMP ROTOR WHEELS OF BR. ONF 9-2.5-0.2 BRONZE ALLOY IN SAND MOLDS 67-12 M06-81989
INTERACTION OF LIQUID TIN BRONZE WITH MOLD MOISTURE
67-12 M06-82092
MECHANIZATION AND AUTOMATION OF CASTING INTO ALUMINUM ANODIZED CHILL MOLDS
67-12 M06-82614
PARTING COMPOUNDS AND MOLDING PAINTS FOR COPPER ALLOY CASTINGS 67-12 M06-83042

TIN BRONZES, CAVITATION
INVESTIGATION OF THE RESISTANCE TO CAVITATION AND

TIN BRONZES

THE KINETICS OF CAVITATION BREAKDOWN OF METALLIC ALLOYS 67-02 M18-59896
TIN BRONZES, CHEMICAL ANALYSIS
POLAROGRAPHIC METHODS OF SIMULTANEOUS DETERMINATION OF TIN, NICKEL, LEAD AND ZINC IN BRONZE 67-01 M19-57495
TIN BRONZES, CLEANING
AUTOMATIC PICKLING OF BRASS AND COPPER WIRE 67-03 M12-65121
TIN BRONZES, COATING
STUDY OF VIBROARC BUILDING OF BRONZE ON STEEL 67-01 M12-58027
DEVELOPMENTS AND TENDENCIES IN PRECIOUS-METAL ELECTROPLATING. PT. 4 67-07 M12-73820
ELECTRODEPOSITION OF CU-SN ALLOYS WITH HIGH TIN CONTENT FROM PYROPHOSPHORIC ELECTROLYTE 67-10 M12-78530
TIN BRONZES, COATINGS
THE THERMAL AND PHYSICAL CONDITIONS FOR THE PLASMA JET DEPOSITION OF COPPER AND BRONZE ON STEEL 67-08 M12-75914
STRUCTURE OF COPPER-TIN GALVANIC DEPOSITS 67-11 M12-81288
INVESTIGATION OF THE PROCESS OF FRICTION DEPOSITION OF BRONZE ONTO STEEL 67-12 M12-82629
TIN BRONZES, CORROSION
OXIDATION OF SOME BRONZES AND SILICON IRON IN WATER VAPORS 67-06 M18-70173
CORROSION RESISTANT MATERIALS IN ACYLATING HYDROLYZING MEDIA IN THE PRODUCTION OF CELLULOSE ACETOBUTYRATE 67-07 M18-72872
CAVITATION DAMAGE PATTERNS WITH MAGNETOSTRICTIVE OSCILLATORS 67-09 M18-76662
ELECTROCHEMICAL CORROSION OF WHITE-METAL BEARINGS 67-11 M18-81247
ATMOSPHERIC CORROSION TESTS IN SWEDEN. COPPER AND COPPER ALLOYS 67-11 M18-81521
TIN BRONZES, CRYSTAL LATTICES
DISLOCATION CONFIGURATIONS IN WIRE-DRAWN POLYCRYSTALLINE COPPER ALLOYS.. A STUDY BY X-RAY DIFFRACTION 67-06 M13-71089
TIN BRONZES, CUTTING
CONTACT ARC FLASH CUTTING OF FERROUS AND NONFERROUS ALLOYS 67-08 M11-75417
ARC CUTTING OF FERROUS AND NON-FERROUS METALS WITH A ROTATING DISC ELECTRODE 67-12 M11-82038
TIN BRONZES, DIFFUSION
DIFFUSION OF ALUMINUM IN THE BINARY IRON-BRONZE SYSTEM 67-10 M14-78368
TIN BRONZES, GRAIN STRUCTURE
INFLUENCE OF RARE EARTH METALS ON STRUCTURE AND PROPERTIES OF BR. OS 5-25 BRONZE 67-01 M06-57329
TIN BRONZES, HARDENING
STRENGTHENING OF DISPERSION HARDENING ALLOYS SUBJECTED TO HIGH-VELOCITY DEFORMATION 67-09 M14-76442
TIN BRONZES, HEAT TREATMENT
AGE-HARDENING CU-NI-SN BRONZES. PT. 9. THE DEVELOPMENT OF COMPLEX, ECONOMICAL ALLOYING POWDERS 67-01 M14-58627
INFLUENCE OF RARE EARTH METALS ON THE STRUCTURE AND PROPERTIES OF BRONZE BR. OS 5-25 67-07 M06-73051
RESEARCH INTO THE PROCESSES TAKING PLACE WHEN TIN-PHOSPHORUS BRONZE IS ANNEALED FOR HOMOGENIZATION 67-10 M10-79654
TIN BRONZES, MACHINE TOOLS
AIR BEARINGS AID LINE BORING 67-09 M08-77392
TIN BRONZES, MACHINING
CONTINUOUS CAST BRONZES FOR SCREW MACHINING 67-02 M08-60247
MACHINABILITY OF FREE CUTTING BRASSES 67-03 M08-65700
DIAMOND TOOLS IMPROVE HONING 67-06 M08-70844
MACHINING--NEW TRENDS IN OLD TECHNIQUES 67-12 M08-83134
TIN BRONZES, MECHANICAL PROPERTIES
CASTING ALUMINUM ALLOY BRONZE 67-01 M17-58028
AGE-HARDENING BEHAVIOUR IN A 5 PER CENT TIN BRONZE CONTAINING TITANIUM 67-02 M14-61845
THE FATIGUE STRENGTH OF SINTERED MATERIALS 67-02 M17-60507
FRACTURE OF COPPER ALLOYS BY MICROIMPACT ACTION 67-02 M17-61729
ALUMINIUM-TIN ALLOY AS A BEARING MATERIAL FOR MACHINE TOOL APPLICATION 67-02 M20-61565
INVESTIGATION OF THE EFFECT OF POROSITY ON THE STRENGTH PROPERTIES OF POWDERED-METAL BRONZES 67-05 M09-68201
FRICTION AND WEAR TESTING UNDER HIGH TEMPERATURE OF CAST AND OTHER METALS 67-05 M17-68953
EFFECT OF THE CONCENTRATION OF ALUMINUM ON THE STRENGTH PROPERTIES OF ALUMINUM BRONZES 67-05 M17-69269
PROMET-115N 67-06 M01-71157
EFFECT OF ADDITIVES ON THE PROPERTIES OF BR. OTS10-2 TIN BRONZE 67-06 M17-72125
INFLUENCE OF SURFACE TREATMENT ON THE ELASTIC PROPERTIES OF THIN RIBBONS OF BR. OF 6.5-0.15 BRONZE 67-08 M17-74986
A SPECIAL FEATURE OF METAL FLOW IN COOLING MEDIA CONSISTING OF LIQUIDS AND AIR 67-08 M17-75010
AL2EN 305 WHITE BRONZE--AN ECONOMICAL BEARING MATERIAL 67-10 M01-79490
COPPER ALLOYS IN PUMP CONSTRUCTION 67-12 M01-83210
A STUDY OF THE ANTIFRICTION PROPERTIES OF COMPOSITE METAL/POLYMER MATERIALS IN A VACUUM AND IN CERTAIN GAS ATMOSPHERES 67-12 M17-82195
FRICTIONAL AND WEAR RESISTANT BEHAVIOR OF A MACHINE TOOL SLIP-GUIDE 67-12 M17-82462
TIN BRONZES, MECHANICAL TESTS
A NEW HARDNESS NUMBER FOR THE BALL TEST OF NONFERROUS METALS AND ALLOYS 67-02 M17-58896
TIN BRONZES, MELTING
COPPER AND ALUMINUM --NON-FERROUS AND LIGHT METALS AND ALLOYS--. PT. 2 67-04 M06-66243
INDUCTION MELTING IN THE FOUNDRY 67-06 M06-71598
TIN BRONZES, MICROSTRUCTURE
ELECTRON MICROSCOPE STUDY OF THE EFFECT OF LOW-TEMPERATURE ANNEALING ON THE STRUCTURE OF THE COLD-DEFORMED ALLOYS BR. A7 AND L62 67-02 M13-61162
TIN BRONZES, PHASES /STATE OF MATTER/
IDENTIFICATION OF THE KAPPA PHASE IN ALUMINUM BRONZE CONTAINING NICKEL AND IRON 67-01 M13-58143
RECENT RESEARCH ON VANADIUM BRONZES. PT. 2. INSERTION OF MONOVALENT ELEMENTS 67-02 M14-60924
TIN BRONZES, POWDER METALLURGY
INVESTIGATION OF ULTRAFINE POWDERS OF COPPER AND BRONZE 67-08 M09-74320
PROCESSES OF MANUFACTURING ANISOTROPIC POWDER COMPOSITES AND DEVELOPMENT OF PRODUCTION PLANS 67-08 M09-75451
DESIGN FOR POWDER METALLURGY 67-08 M09-75611
NEW TECHNIQUES FOR MAKING FILTERS FROM TIN-PLATED BRONZE FRACTIONS 67-09 M09-76571
ATOMIZING OF BRONZE AND PROPERTIES OF THE POWDER PRODUCED 67-12 M09-82204
TIN AGAINST FRICTION AND WEAR 67-12 M20-81733
TIN BRONZES, POWDER METALLURGY PARTS
PRODUCTION OF CERMET MACHINE PARTS AT THE MOSCOW POWDER METALLURGY PLANT 67-02 M09-61796
THE MOTION OF GASES AND LIQUIDS IN POROUS SINTERED MATERIALS 67-02 M09-62125
TIN BRONZES, REFINING
PURGING OTSSN3-7-5-1 BRONZE WITH NITROGEN AND WITH FLUX POWDERS IN A NITROGEN STREAM 67-01 M06-57321
INJECTION OF BRONZE OTSSN3-7-5-1 WITH NITROGEN AND POWDERED FLUXES IN NITROGEN 67-07 M06-73043
TIN BRONZES, SEALS /STOPPERS/
MATERIALS FOR MECHANICAL SEALS 67-05 M20-69546
TIN BRONZES, SURFACE FINISHING
NEW POLISHING MATERIALS FOR PROCESSING OF SINGLE CRYSTALS 67-06 M12-72324
TIN BRONZES, SURFACE PROPERTIES
RESEARCH IN THE FIELD OF OIL-IMPREGNATED, POROUS BRONZE BEARINGS 67-04 M20-67211
TIN BRONZES, WEAR
WEAR OF METALS IN SUCROSE SOLUTIONS 67-09 M17-76438
TIN BRONZES, WELD METAL
SURFACING WITH BRONZE 67-07 M11-74277
TIN BRONZES, WELDING
WIRE AND ROD FOR WELDING STANNOUS BRONZE--TECHNICAL SPECIFICATIONS FOR PRODUCTION AND DELIVERY 67-02 M11-58865
PERCUSSION WELDING OF RELAY ELEMENTS 67-03 M11-65054
CAPACITOR DISCHARGE SPOT WELDING OF RELAY ELEMENTS 67-07 M11-73974
DIFFUSION WELDING TITANIUM ALLOYS WITH COPPER

ALLOYS 67-08 M11-75419
THE DIFFUSION WELDING OF TITANIUM ALLOYS TO COPPER ALLOYS 67-12 M11-82040
BURNING-IN OF TIN-BRONZE CASTINGS 67-12 M11-83572

TIN BRONZES, WELDING ELECTRODES
NEW CONDUCTOR COPPER ALLOYS, PRINCIPLES OF ALLOYING, PROPERTIES AND APPLICATIONS 67-02 M11-60546

TIN BRONZES, WIRE
WIRE TEMPERATURE AND ITS MEASUREMENT IN DRAWING 67-02 M08-59561

TIN COATINGS
SEE METAL COATINGS TIN

TIN COMPOUNDS, BINARY SYSTEMS
VAPOR PRESSURE OF METAL HALIDES. THE SNCL2-ZNCL2 BINARY SYSTEM 67-11 M15-80761

TIN COMPOUNDS, COATINGS
THE INFLUENCE OF DIELECTRIC FILMS ON THE SUPERCONDUCTIVITY OF THIN SN AND TL FILMS 67-09 M16-76453

TIN COMPOUNDS, CRYSTAL GROWTH
REPRODUCIBLE PREPARATION OF SN1-XPBXTE EPITAXIAL FILMS WITH MODERATE CARRIER CONCENTRATIONS 67-02 M14-61823
POLYMORPHISM IN SOME IV-VI COMPOUNDS INDUCED BY HIGH PRESSURE AND THIN-FILM EPITAXIAL GROWTH 67-08 M14-75552

TIN COMPOUNDS, MOSSBAUER EFFECT
TEMPERATURE-DEPENDENT ISOMER SHIFT AND ANHARMONIC BINDING OF SN119 IN NB3SN 67-06 M16-71173

TIN COMPOUNDS, OPTICAL PROPERTIES
FREE CARRIER OPTICAL CONSTANTS OF SNTE 67-06 M16-70469

TIN COMPOUNDS, PHASE TRANSFORMATIONS
THE SOLIDIFICATION OF BI2TE3 AND ITS SOLID SOLUTIONS WITH BI2SE3 AND SB2TE3 UNDER THE INFLUENCE OF ULTRASONIC AGITATION 67-06 M14-70664

TIN COMPOUNDS, PHYSICAL PROPERTIES
STUDY OF THE ELECTRICAL CONDUCTIVITY OF CDSNAS2 IN THE SOLID AND LIQUID STATES 67-10 M15-79831

TIN COMPOUNDS, SEMICONDUCTORS
ELECTRON SPIN RESONANCE IN REDUCED SNO2 67-01 M16-57961
CRITICAL MAGNETIC FIELDS OF SUPERCONDUCTING SNTE 67-03 M16-65142
ELECTRICAL AND OPTICAL PROPERTIES OF SNO2-SI HETEROJUNCTIONS 67-11 M15-80823

TIN COMPOUNDS, TERNARY SYSTEMS
INVERSION OF CONDUCTION AND VALENCE BANDS IN PB1-XSNXSE ALLOYS 67-09 M16-77170

TIN COMPOUNDS, THERMODYNAMICS
ON THE CAUSES OF TIN LOSSES IN SLAGS 67-01 M03-57272
THERMAL STUDY OF GROUP 2-4 SEMICONDUCTORS. PT. 2. HEAT CAPACITY OF MG2SN IN THE RANGE 5 TO 300 K 67-05 M15-68281

TIN COMPOUNDS, TRANSPORT PROPERTIES
BURSTEIN SHIFT OF THE FUNDAMENTAL ABSORPTION EDGE OF TIN TELLURIDE 67-01 M16-57443
PHYSICAL AND ELECTRONIC PROPERTIES OF CD3AS2-ZNSNAS2 ALLOYS 67-04 M15-67578
THE FERMI SURFACE OF TIN TELLURIDE--SHUBNIKOV-DE HAAS EFFECT 67-04 M16-66771
OPTICAL ENERGY GAPS OF PBSE-SNTE, PBSE-SNSE, PBTE-SNTE AND PBTE-SNSE 67-10 M16-79335

TIN NICKEL ALLOY PLATING
SEE ALLOY PLATING NICKEL PLATING TIN PLATING

TIN ORES
SEE ALSO CASSITERITE

TIN ORES, BENEFICIATION
TECHNOLOGY OF PRODUCING HIGH-GRADE CONCENTRATES FROM TIN-LEAD RAW MATERIAL 67-05 M02-69272
BRIEF REVIEW OF RESEARCH AND CERTAIN CONCLUSIONS ON THE BENEFICIATION OF STANNITE ORES 67-06 M02-70189
UPGRADING OF A TIN PRODUCT CONTAINING RODOCHROSITE 67-06 M02-70190
COMBINED BENEFICIATION--METALLURGICAL METHOD FOR PROCESSING CASSITERITE-SULFIDE ORES 67-11 M02-81503
FLOTATION OF SULFIDES FROM CRUDE FINE-GRAINED TIN CONCENTRATES 67-11 M02-81504
UPGRADING CRUDE TIN-TUNGSTEN CONCENTRATES 67-12 M02-81894

TIN ORES, CHEMICAL ANALYSIS
ESTIMATING THE ACCURACY OF DETERMINING SMALL AMOUNTS OF TIN IN TIN CONCENTRATES BY RADIOACTIVE TRACERS 67-06 M19-70340

TIN ORES, REFINING
TRENDS AND PROSPECTS IN THE DEVELOPMENT OF THE TIN SMELTING PROCESS 67-04 M03-67523

TIN PLATE
IMPROVING TINPLATES ALLOY LAYER 67-03 M12-65164
TIN PLATE STEEL 67-09 M01-78006

TIN PLATE, BRAZING
FLASH BRAZING WITH HEATING IN GLYCERIN 67-12 M11-83194

TIN PLATE, COATING
PRECOATED STRIP 67-04 M12-66137

TIN PLATE, COATINGS
COATING THICKNESS DETERMINATIONS OF TIN PLATE BY X-RAY METHODS 67-08 M12-75586

TIN PLATE, CONTAINERS
NEW METAL SUBSTRATES FROM THE CAN MAKERS VIEWPOINT 67-01 M20-58799

TIN PLATE, CORROSION
CORROSION RESISTANCE OF TIN IN HALIDE ELECTROLYTES USED FOR TINPLATING 67-04 M18-67292
THE CORROSION OF TIN PLATE BY FOODSTUFFS 67-07 M18-72538
INTERNAL CAN CORROSION DUE TO HIGH NITRATE CONTENT OF CANNED VEGETABLES 67-07 M18-73000
LABORATORY STUDIES OF THE FORMATION OF THE INTERMETALLIC LAYER IN TINPLATE 67-08 M18-74670
STUDIES ON ALLOY-TIN COUPLE TEST 67-09 M18-76683

TIN PLATE, FORMING
THE AGING OF TINPLATE 67-12 M08-83450

TIN PLATE, METAL WORKING
NEW TECHNIQUES IN RIGID METAL CONTAINER MANUFACTURE 67-01 M08-57548
AN EMPIRICAL EQUATION FOR THE STRAIN-RATE EFFECT ON ROLL SEPARATING FORCE IN COLD ROLLING 67-03 M07-65939
CAN MAKING IN AUSTRALIA MATCHES WORLD STANDARDS 67-09 M08-76488

TIN PLATE, MICROSTRUCTURE
STRUCTURE AND CONSTITUTION OF THE TIN-PLATE ALLOY LAYER 67-07 M12-73326
STRUCTURE AND CONSTITUTION OF THE TIN-PLATE ALLOY LAYER --CONCLUSION-- 67-08 M13-74735

TIN PLATE, NONDESTRUCTIVE TESTING
THE APPLICATION OF AN X-RAY FLUORESCENT TECHNIQUE TO THE MEASUREMENT OF TIN-COATING THICKNESS OF SMALL AREAS 67-06 M19-72019

TIN PLATE, NUCLEATION
THE BEHAVIOR OF NUCLEATION OF TIN ELECTRODEPOSITS ON COLD ROLLED STEEL SHEETS 67-06 M12-70781

TIN PLATE, PICKLING
FACTORS INFLUENCING THE PICKLING TIME REQUIRED FOR HOT ROLLED STEEL STRIP 67-06 M12-71384

TIN PLATE, REFINING
ELECTROLYTIC RECOVERY OF TIN FROM TIN-PLATE SCRAP 67-04 M03-66306

TIN PLATE, ROLLING
PRE-STRESSED MILL FOR EXTRA-THIN TINPLATE 67-04 M07-67405
COLD ROLLING OF STEEL SHEET 67-10 M07-78391
PRODUCTION AND USE OF THIN SHEET FOR PACKAGING 67-12 M07-83451
KAISER STEELS 3-STAND COLD REDUCING MILL FOR LIGHT WEIGHT TIN MILL PRODUCTS 67-12 M07-83590

TIN PLATE, WELDING
A REVOLUTION IN CAN-MAKING--THE WIRED WHEEL 67-11 M11-81499

TIN PLATING
PROPERTIES AND SOME USES OF STEEL FOILS AND STEEL FOIL COMPOSITES 67-01 M01-58285
PLATING LEAD ON STEEL AT HIGH SPEED 67-02 M12-58973
HOT DIP TINNING PRACTICE 67-02 M12-62299
IMPROVING TINPLATES ALLOY LAYER 67-03 M12-65164
IMMERSION TINNING OF BRASS BUTTONS 67-03 M12-65680
SOLDERABILITY OF COATINGS FOR PRINTED CIRCUITS 67-05 M11-68827
POROSITY IN SINGLE AND MULTI-LAYER ELECTRODEPOSITS, AND ITS RELATION TO THE BASIS METAL STATE 67-05 M12-68819
A METHOD OF LOCAL TINNING OF HUNTING RIFLE BARRELS

TIN PLATING
67-06 M11-70398
A SURVEY OF TIN COATING METHODS
67-06 M12-70608
TIN COATING TODAY 67-06 M12-70656
BRIGHT ACID TINNING 67-06 M12-70657
THE BEHAVIOR OF NUCLEATION OF TIN ELECTRODEPOSITS ON COLD ROLLED STEEL SHEETS 67-06 M12-70781
ELECTROLYTIC TINNING OF STEEL STRIP
67-06 M12-72194
TIN COATING METHODS 67-07 M12-72488
STRUCTURE AND CONSTITUTION OF THE TIN-PLATE ALLOY LAYER 67-07 M12-73326
INVESTIGATION OF INTERNAL STRESSES IN SN-NI COATINGS 67-07 M12-73652
THE CULMO HIGH SPEED BRIGHT ACID TIN PROCESS FOR RACK OR BARREL PLATING 67-07 M12-74164
A METHOD OF LOCALLY TINPLATING SHOTGUN BARRELS
67-09 M11-78098
HOMOGENEOUS LEAD COATINGS ON STEEL
67-09 M12-76615
HOT DIP TINNING DEVICE 67-09 M12-76835
ELECTROLYTIC TINNING OF STRIP STEEL
67-09 M12-77674
INFLUENCE OF ORGANIC ADDITIONS ON THE STRUCTURE OF TIN DURING ELECTROLYTIC TIN PLATING
67-10 M12-78529
TINPLATE 67-10 M12-79440
VAPOR PLATING OF TIN ONTO GALLIUM ARSENIDE
67-10 M15-79126
BOND STRENGTH OF WHITE METALLING
67-11 M12-81246
ANODIC PROCESS IN ACID TIN PLATING ELECTROLYTES
67-11 M12-81297
TIN AGAINST FRICTION AND WEAR 67-12 M20-81733
TINNING /COATING/
SEE TIN PLATING
TINNING /SOLDERING/
SEE SOLDERING
TITANATES, CRYSTAL GROWTH
COMPOSITIONAL INHOMOGENEITY OF --BA, PB-- TIO3 CRYSTALS 67-08 M14-75991
TITANATES, ELECTRICAL PROPERTIES
HALOGEN TREATMENT OF BATIO3 SEMICONDUCTORS
67-08 M15-75990
TITANATES, POWDER METALLURGY
THE EFFECTS OF SOME VARIATIONS IN FABRICATION PROCEDURE ON THE PROPERTIES OF LEAD ZIRCONATE-TITANATE CERAMICS MADE FROM SPRAY-DRIED, CO-PRECIPITATED POWDERS 67-09 M09-76747
TITANATES, THIN FILMS
FERROELECTRICITY OF BARIUM TITANATE THIN FILMS OF LESS THAN ONE MICRON THICKNESS
67-12 M15-82015
TITANIUM
A SURVEY OF THE TITANIUM ALLOYS, THEIR APPLICATIONS AND THEIR PROCESSING AND MANUFACTURING TECHNOLOGY
67-03 M01-65064
ZR, HF, TI NEWSLETTER 67-04 M01-66684
NONUNIFORM DISTRIBUTION OF TITANIUM IN AN FE-NI-TI ALLOY 67-06 M13-70921
TITANIUM, ALLOYING ADDITIVE
TITANIUM IN CAST IRONS 67-02 M13-59094
EXPLORATORY EXPERIMENT ON FEASIBILITY OF MAKING A TI-MG ALLOY UNDER HIGH PRESSURE
67-02 M13-59442
AGE-HARDENING BEHAVIOUR IN A 5 PER CENT TIN BRONZE CONTAINING TITANIUM 67-02 M14-61845
ON THE YIELD OF SULFUR AND THE INFLUENCE OF SULFUR ON THE MAGNETIC PROPERTIES OF TITANIUM CONTAINING HIGH-COERCIVE FORCE ALNICO MAGNET ALLOYS WITH SULFUR 67-02 M15-60141
HEAT RESISTANT STEEL WHICH IS NOT ALLOYED WITH CHROMIUM AND NICKEL 67-02 M17-58867
EFFECT OF NB, TI AND B ON THE ELEVATED-TEMPERATURE MECHANICAL PROPERTIES OF A CR12W2V STEEL
67-02 M17-60210
EFFECT OF ALLOYING WITH MOLYBDENUM, TUNGSTEN AND OTHER ELEMENTS ON PROPERTIES AND STRUCTURE OF HEAT RESISTANT NICKEL ALLOYS IN CAST STATE
67-02 M17-61876
EFFECT OF TITANIUM ON NI-AL AGE HARDENING STEELS
67-04 M14-67563
INFLUENCE OF TITANIUM ON PHYSICAL PROPERTIES OF IRON-NICKEL ALLOYS 67-04 M17-66089
INFLUENCE OF A PIG IRON CONTAINING VANADIUM AND TITANIUM ON THE SURFACE HARDENABILITY OF CAST IRON WITH FLAKE-TYPE GRAPHITE
67-04 M17-66183
FORMING ZN-CU-TI ALLOYS 67-04 M17-67140
STUDY OF THE EFFECT OF MICROALLOYING ELEMENTS ON THE INCREASE IN STRENGTH OF STRUCTURAL STEELS USED FOR PRESTRESSED CONCRETE
67-04 M17-67436
EFFECT OF ALLOYING WITH MOLYBDENUM, TUNGSTEN, AND OTHER ELEMENTS ON THE PROPERTIES AND STRUCTURE OF HEAT-RESISTING NICKEL ALLOYS IN THE CAST CONDITION 67-04 M17-67695
EFFECT OF THE ADDITION OF SMALL AMOUNTS OF TITANIUM ON THE PROPERTIES AND STRUCTURE OF LOW-CARBON AND LOW-ALLOYED STEELS
67-04 M17-67968
HARDENING BY ORDERED PRECIPITATES
67-05 M14-69471
EFFECT OF ALLOYING ELEMENTS ON THE FORMABILITY OF CAST RE 67-05 M17-68978
THE EFFECT OF COMBINED, SIMULTANEOUS ADDITION OF MO, NB, TI, N, B ON HIGH TEMPERATURE PROPERTIES OF 18CR-12NI AUSTENITIC HEAT RESISTING STEEL
67-05 M17-69711
OXIDATION OF FE-TI ALLOYS IN CO-CO2 MIXTURES
67-05 M18-69472
SIGMA FORMATION IN NICKEL-RICH NICKEL-COBALT-CHROMIUM-ALUMINUM-TITANIUM-CARBON ALLOYS AT 1650 F 67-06 M14-69932
STUDY OF THE EFFECT OF TITANIUM ON ALNICO ALLOYS CONTAINING 34 PER CENT COBALT
67-06 M14-70598
PRECIPITATION-HARDENING BEHAVIOR AND MECHANICAL PROPERTIES OF HEAT-RESISTING ALLOYS CONTAINING UP TO 35 PER CENT COBALT 67-06 M17-70599
RESEARCH INTO THE OXIDATION OF NIOBIUM ALLOYED WITH VANADIUM, TITANIUM AND ZIRCONIUM
67-06 M18-70926
INOCULATING IRON FOR MOLDS WITH TITANIUM
67-07 M04-73779
STRENGTHENING OF SAPPHIRE BY PRECIPITATES CONTAINING TITANIUM 67-07 M10-72829
INTERCRYSTALLINE CORROSION OF TWO-PHASE STEELS OF THE OKH21N5 TYPE 67-07 M18-73646
MECHANISM OF THE INFLUENCE OF DIFFERENT ELEMENTS ON THE GRAPHITIZATION OF CAST IRON
67-08 M14-74545
NITROGEN SOLUBILITY AND NITRIDE FORMATION IN LIQUID NI-TI-AL ALLOYS 67-08 M14-75871
THE PRODUCTION OF COLUMNAR STRUCTURES IN HIGH-COBALT HIGH-TITANIUM PERMANENT MAGNET ALLOYS
67-08 M14-75985
COMPATIBILITY OF TWO NI-TI ALLOYS WITH MERCURY
67-08 M18-75776
INOCULATING IRON FOR INGOT MOULDS WITH TITANIUM
67-09 M04-76542
THE INFLUENCE OF TITANIUM ON THE ELECTROSLAG WELDING OF STEEL 67-09 M11-77341
THE KINETICS OF THE ALPHA TO BETA TO ALPHA TRANSFORMATIONS IN SOME DILUTE PLUTONIUM ALLOYS
67-09 M14-78264
DUCTILE-BRITTLE TRANSITION IN IRON FREE FROM INTERSTITIALS 67-09 M17-78292
NONMETALLIC INCLUSIONS IN RAIL STEEL INOCULATED WITH TITANIUM 67-10 M13-80035
EFFECTS OF TITANIUM ON THE AUSTENITIC STRUCTURE OF RAIL STEEL 67-10 M14-78941
MECHANISM BY WHICH INOCULATION STRENGTHENS RAIL STEEL 67-10 M17-78938
THE SERVICE LIFE OF RAILS INOCULATED WITH TITANIUM
67-10 M17-78940
DUCTILE ZINC-COPPER-TITANIUM ALLOYS. PT. 2
67-10 M17-79652
INFLUENCE OF NIOBIUM, TITANIUM, AND BORON ON HIGH-TEMPERATURE PROPERTIES OF 12 PER CENT CR-2 PER CENT W-V STEEL 67-10 M17-79772
EFFECTS OF TITANIUM ON THE PHASE COMPOSITION OF A STAINLESS FERRITIC-AUSTENITIC STEEL
67-10 M18-78922
EFFECT OF CRYSTALLIZATION AND HEAT TREATMENT ON THE STRUCTURE AND PROPERTIES OF CAST HIGH-SPEED STEEL
67-11 M04-81664
EFFECT OF SLIGHT TITANIUM ADDITIONS ON THE PROPERTIES OF CRYSTAL-ORIENTED ALNICO ALLOYS
67-11 M15-80344
EFFECT OF TITANIUM, ZIRCONIUM, AND HAFNIUM ON THE PROPERTIES OF MOLYBDENUM ALLOYED WITH CARBON
67-11 M17-80991
THE AGING BEHAVIOR OF CU-4WT PER CENT TI ALLOY
67-11 M17-81060
CORROSION CRACKING IN FERTILIZER EQUIPMENT
67-11 M18-81488
EFFECT OF MN, SI AND TI ON THE PROPERTIES OF

KH8M4D4 STEEL 67-12 M06-83032
X-RAY AND ELECTRON MICROSCOPY STUDY OF PREPRECIPITATION PHENOMENA IN CU-RICH TI ALLOYS 67-12 M13-83151

TITANIUM, ATOMIC PROPERTIES
K- AND L-SPECTRA OF METAL-LIKE TITANIUM COMPOUNDS 67-12 M16-82329

TITANIUM, BENEFICIATION
PROPERTIES OF TITANIUM PREPARED BY SODIUM REDUCTION PROCESS 67-01 M03-58544

TITANIUM, BINARY SYSTEMS
METASTABLE DIAGRAM OF PHASE COMPOSITION OF TITANIUM-CHROMIUM ALLOYS 67-01 M13-57312
INTERDIFFUSION BETWEEN COMPONENTS AND THE PHASE DIAGRAM OF THE TI-W SYSTEM 67-01 M13-58099
PROBLEM OF THE STRUCTURE OF ALLOYS IN THE TI-FE AND TI-CR-FE SYSTEMS 67-01 M13-58188
ANODIZING AS A TECHNIQUE FOR STUDYING DIFFUSION IN THE TICB SYSTEM 67-01 M14-57432
THERMOCHEMICAL INVESTIGATION OF ALLOYS OF THE TI-AL SYSTEM IN THE REGION OF THE ALPHA-SOLID SOLUTION 67-01 M15-58098
INVESTIGATION OF THE EQUILIBRIUM DIAGRAM OF TITANIUM-RICH ALLOYS IN THE TI-AL SYSTEM 67-02 M13-59837
PHASE DIAGRAMS OF THE TI-P SYSTEM 67-02 M13-59839
THE TITANIUM-RHODIUM ALLOYS 67-02 M13-61890
REINVESTIGATION OF THE TITANIUM-RICH REGION OF THE TITANIUM-ALUMINUM EQUILIBRIUM DIAGRAM 67-02 M14-61776
ALLOY PROPERTIES ON AN ALUMINIDE BASE 67-02 M17-62180
PHASE DIAGRAMS OF SYSTEMS OF HYDROGEN WITH TITANIUM, ZIRCONIUM, VANADIUM AND NIOBIUM 67-04 M13-66824
THE EFFECT OF ALLOYING ADDITIONS ON THE EQUILIBRIUM OF HIGH-CU CU-TI ALLOYS 67-05 M13-68513
INTERMEDIATE PHASES IN TITANIUM ALLOYS WITH IRIDIUM AND RHODIUM 67-05 M13-69277
MAGNETISM OF THE TITANIUM-OXYGEN SYSTEM 67-05 M15-69300
MAGNETIC SUSCEPTIBILITY MEASUREMENTS OF RUTILE AND THE MAGNELI PHASES OF THE TI-O SYSTEM 67-05 M15-69523
PHASE DIAGRAM OF THE SYSTEM TITANIUM-COPPER 67-07 M13-73279
PROPERTIES OF ALLOYS BASED ON THE ALUMINIDE TI3AL 67-08 M17-75956
PHASE DIAGRAM AND PROPERTIES OF ALLOYS IN THE TI2TE3-SB2TE3 SYSTEM 67-09 M13-76848
ON THE MARTENSITIC TRANSFORMATION IN TINI 67-11 M14-80104
ACTIVITIES OF CHROMIUM AND TITANIUM IN BINARY CHROMIUM-TITANIUM ALLOYS 67-11 M15-81340
HYDROGEN SOLUBILITY IN ALPHA TI-O ALLOYS 67-12 M14-82747

TITANIUM, BONDING
DIFFUSION-BONDING OF FORMABLE STRUCTURAL PANELS BY COMPOSITE ROLLING 67-02 M11-61841
STRESSED SKIN STRUCTURES IN SANDWICH CONSTRUCTION 67-04 M09-66142
EXPLOSION-BONDING PROCESS FOR METALS 67-05 M12-68479
ADHESION THEORY--INITIAL CONSIDERATIONS, DESIGN REQUIREMENTS AND BONDING AGENTS 67-10 M11-79689

TITANIUM, BRAZING
BRAZING OF TITANIUM WITH LI-CONTAINING SILVER 67-04 M11-67590

TITANIUM, BRITTLENESS
INFLUENCE OF HYDROGEN IN THE PROCESS OF CORROSION ON PROPERTIES OF WELDED TITANIUM ALLOYS 67-06 M18-71646

TITANIUM, CASTING
NEW DEVELOPMENTS IN TITANIUM CASTINGS 67-06 M06-71676
MELTING AND CASTING REFRACTORY OR REACTIVE METALS BY PLASMA ELECTRON BEAM 67-09 M06-78223

TITANIUM, CASTINGS
TITANIUM CASTINGS 67-10 M06-79093
TITANIUM CASTINGS FOR AIRFRAME STRUCTURAL APPLICATIONS 67-12 M20-82453

TITANIUM, CHEMICAL ANALYSIS
USE OF CORRELATION ANALYSIS AND COMPUTERS TO STUDY THE PROCESS OF TITANIUM SLAG SMELTING 67-04 M02-67531
DETERMINATION OF OXYGEN IN TITANIUM BY ISOTOPIC DILUTION 67-06 M19-69904

TITANIUM, CHIPS
PURIFYING TITANIUM SHAVINGS OF SOLID ALLOY IMPURITIES 67-12 M02-83096

TITANIUM, CLAD METALS
PRODUCING BIMETALS BY VACUUM ROLLING 67-05 M12-68235

TITANIUM, CLADDING
TRANSITION LAYER IN IRON-TITANIUM BIMETAL 67-01 M12-58033
PACK ROLLING TITANIUM-IRON 67-01 M12-58068
PRODUCTION OF BIMETAL SHEETS BY VACUUM PACK ROLLING 67-05 M12-68550
MANUFACTURE OF BIMETALLIC SHEETS BY ROLLING VACUUM PACKS 67-07 M12-72461
CLADDING TITANIUM IN A VACUUM 67-08 M12-75097
WORKING TECHNIQUES OF TITANIUM AND TITANIUM-CLAD STEELS FOR CHEMICAL VESSELS 67-10 M12-79493

TITANIUM, CLEANING
INVESTIGATION OF THE EFFECT OF CHEMICAL TREATMENT OF TITANIUM ALLOY TUBES ON THEIR MECHANICAL PROPERTIES 67-09 M12-76437
A NEW METHOD FOR SURFACE TREATMENT OF TI AND TI ALLOYS 67-12 M12-83257

TITANIUM, COATING
SECRET IN ANODIC OXIDIZING AND BLACKING 67-01 M12-58005
PROCESSES MODIFYING THE PROPERTIES OF TOOL SURFACES 67-02 M12-60865
HIGHLIGHT DEVELOPMENTS IN PLATING 67-02 M12-60904
HEAT-RESISTANT TITANIUM ALLOYS CLAD WITH TITANIUM 67-02 M12-61618
THE ELECTRODEPOSITION OF IRIDIUM 67-05 M12-68829
THE RESISTANCE OF TITANATED CARBON STEEL TO EROSION IN WATER 67-06 M12-71117
PLATING ON TITANIUM AND ITS ALLOYS 67-07 M12-73627
ANODIZING TITANIUM 67-07 M12-73628
BATHING METAL WITH ALLOY COATINGS 67-09 M12-76448
INFLUENCE OF THE EDGE EFFECT ON THE TEXTURE OF COPPER DEPOSITS 67-11 M12-80729

TITANIUM, COATINGS
NEW METALLIC COATINGS AND TREATMENTS FOR CONTAINER STEEL SURFACES 67-01 M12-57547
DIFFUSION SATURATION BY BORON AND TITANIUM 67-02 M12-60072
CLADDING STEEL WITH TITANIUM THROUGH A VANADIUM INTERLAYER 67-02 M12-61289
TECHNICAL PROCESSES USING SHOCK WAVES AND THEIR APPLICATION 67-04 M08-66409
TITANIUM-CLAD STEEL BY EXPLOSION WELDING 67-04 M12-66134
THE COATING ON IRON AND STEEL WITH TITANIUM TETRACHLORIDE 67-06 M12-71294
NON-FERROUS METALS RESEARCH 67-07 M01-74165
COATING OF MOLYBDENUM WITH TITANIUM IN MOLTEN SALT ELECTROLYTE 67-07 M12-73658
ELECTROLYTIC METALLIDING 67-12 M12-82074
CORROSION PROPERTIES OF COMBINATION COATINGS 67-12 M18-81721

TITANIUM, COMPOSITE MATERIALS
THE CHARACTER OF REACTION OF TITANIUM NITRIDE WITH THE IRON GROUP METALS, MOLYBDENUM, AND TUNGSTEN 67-02 M09-62213

TITANIUM, CORROSION
TITANIUM AND ITS ALLOYS USED IN CHEMICAL ENGINEERING AS CORROSION-RESISTANT MATERIALS 67-01 M18-57597
SINTERED FILTERS FOR FILTERING CORROSIVE LIQUIDS AND HOT GASES 67-01 M18-57601
SOME CHARACTERISTICS OF THE MECHANISM OF OXIDATION OF TITANIUM AND ZIRCONIUM 67-01 M18-58045
EFFECT OF INTERSTITIAL ELEMENTS AND IRON ON CORROSION RESISTANCE OF COMMERCIALLY PURE TITANIUM IN HYDROCHLORIC ACID AND SULFURIC ACID 67-01 M18-58237
TITANIUM-PERFORMANCE UP, COST DOWN 67-01 M18-58500
SOME CORROSION PROBLEMS ARISING IN HEAT EXCHANGERS IN THE CHEMICAL INDUSTRY 67-02 M18-59485
EFFECT OF NITRIC ACID ON THE CORROSION AND ELECTROCHEMICAL BEHAVIOR OR TITANIUM IN TITANIUM IN SOLUTIONS OF MINERAL ACIDS --HCL AND H2SO4-- 67-02 M18-59784
INVESTIGATION OF THE CORROSION AND ELECTROCHEMICAL BEHAVIOR OF TITANIUM AND ITS ALLOYS IN SOLUTIONS OF PERCHLORIC ACID 67-02 M18-59787

CORROSION AND ELECTROCHEMICAL BEHAVIOR OF TITANIUM AND ITS ALLOYS IN EXTRACTING PHOSPHORIC ACID 67-02 M18-59898
CORROSION OF ALUMINUM AND TITANIUM IN GAPS 67-02 M18-60787
APPLICATION OF TITANIUM IN CHEMICAL AND NUCLEAR INDUSTRIES 67-02 M18-60982
CORROSION OF TITANIUM 67-03 M18-65431
MATERIALS OF CONSTRUCTION 67-03 M20-65696
CORROSION RESISTANCE OF STRUCTURAL MATERIALS IN SODIUM CHLORITE SOLUTIONS 67-04 M18-66591
CORROSION RESISTANCE OF TITANIUM IN NITRIC ACID 67-04 M18-66642
CREVICE CORROSION OF TITANIUM IN SULFURIC ACID 67-04 M18-67280
INFLUENCE OF MONONITROANILINES AND MONONITROPHENOLS ON CORROSION OF TITANIUM IN SULFURIC AND HYDROCHLORIC ACIDS 67-04 M18-67282
EFFECT OF THE HYDRIDE LAYER ON THE ANODIC POLARIZATION BEHAVIOR OF TITANIUM IN SULFURIC ACID 67-05 M18-68767
A KINETIC AND MORPHOLOGICAL STUDY OF THE OXIDATION OF TI-CR ALLOYS IN CO2 AT 1000 C 67-05 M18-69704
INVESTIGATION OF CORROSION INHIBITION EFFECT OF NITRIC ACID DURING CORROSION TESTING OF TITANIUM IN SULFURIC ACID SOLUTIONS 67-05 M18-69825
CORROSION OF TITANIUM ALLOYS IN NITRIC ACID AT HIGH TEMPERATURE 67-05 M18-69826
TITANIUM IN PROCESS EQUIPMENT 67-05 M20-68683
CORROSION OF SOME METALS AND ALLOYS IN ALUMINUM ALLOY 67-06 M18-70177
CAVITATION DAMAGE AND CRYSTAL STRUCTURE --A STUDY OF CAVITATION DAMAGE FROM THE VIEWPOINT OF MATERIAL SCIENCE. PT. 3.-- 67-06 M18-70780
EFFECT OF INTERSTITIAL ELEMENTS AND IRON ON CORROSION RESISTANCE OF COMMERCIALLY PURE TITANIUM IN HYDROCHLORIC ACID AND SULFURIC ACID 67-06 M18-71444
DEGRADATION MECHANISMS OF PLATINUM- AND RHODIUM-COATED TITANIUM ANODES IN THE ELECTROLYSIS OF CHLORIDE AND CHLORIDE-CHLORATE SOLUTIONS 67-06 M18-71697
CORROSION RESISTANT MATERIALS IN ACYLATING HYDROLYZING MEDIA IN THE PRODUCTION OF CELLULOSE ACETOBUTYRATE 67-07 M18-72872
THE ELECTROCHEMICAL PARAMETERS OF STAINLESS STEEL PASSIVATION BY SOME REVERSIBLE REDOX-SYSTEMS 67-07 M18-73700
RESISTANCE OF SOME MATERIALS IN MOLTEN TIN 67-08 M18-75147
FACTORS AFFECTING WATER CONTENT NEEDED TO PASSIVATE TITANIUM IN CHLORINE 67-08 M18-76186
CREVICE CORROSION OF TI IN BOILING AMMONIUM CHLORIDE SOLUTION 67-08 M18-76249
CORROSION RESISTANCE OF TITANIUM IN THE CHEMICAL INDUSTRY 67-08 M18-76295
EXPERIENCE WITH TITANIUM IN CHEMICAL PLANTS 67-09 M18-76365
INFLUENCE OF WATER AND THE NATURE OF THE ELECTROLYTE ON THE ANODIC ACTIVATION OF TITANIUM IN METHANOL SOLUTIONS 67-09 M18-77093
TITANIUM APPLICATIONS IN THE CHEMICAL INDUSTRY 67-09 M18-78026
THERMODYNAMIC REFERENCE POTENTIALS WITH THE SELF-PASSIVATION OF TITANIUM 67-10 M18-78919
THE APPLICATION OF TITANIUM FOR DESALINATION PLANTS 67-11 M18-80290
EXPERIENCE WITH TI APPARATUS IN THE CHEMICAL INDUSTRY 67-11 M18-81258
RADIOMETRIC METHODS OF MEASURING LOW RATES OF CORROSION OF TITANIUM 67-11 M18-81300
CORROSION UNDER HEAT TRANSFER--SERVICE FAILURES AND LABORATORY TESTING 67-11 M18-81552
INVESTIGATION OF THE MECHANISM OF PROTECTION OF TITANIUM BY ADDITION OF NITRIC ACID TO SULFURIC ACID SOLUTIONS 67-12 M18-82259
BEHAVIOR OF TITANIUM ALLOYS IN NITRIC ACID AT HIGH TEMPERATURES 67-12 M18-82260
THE CORROSION BEHAVIOR OF PALLADIUM IN TITANIUM-PALLADIUM ALLOY 67-12 M18-82501

TITANIUM, CRYSTAL LATTICES
STUDY OF THE HARDNESS OF TITANIUM-OXYGEN ALLOYS 67-02 M14-62252
THE ELECTRON MICROSCOPIC STRUCTURE AND LATTICE DEFECTS OF THE MARTENSITE IN COMMERCIALLY PURE TITANIUM 67-03 M13-65840
TRANSFORMATION TWINS IN TITANIUM 67-03 M13-65841
BASAL AND PRISMATIC SLIP IN HCP CRYSTALS 67-06 M13-71974
INVESTIGATION OF THE QUASI-LOCAL LEVEL IN THE VIBRATIONAL SPECTRUM OF THE TI LATTICE WITH HEAVY IMPURITY ATOMS 67-08 M16-75235
INTERPLANAR ANGLES AND STANDARD PROJECTIONS OF TITANIUM 67-10 M13-78672
X-RAY STUDY OF COLD WORK AND RECOVERY IN SOME HCP METALS AND ALLOYS 67-11 M13-80377
THE SOLUTION OF INTERSTITIAL ELEMENTS IN THE BODY-CENTERED CUBIC EARLY TRANSITION METALS 67-11 M14-81118

TITANIUM, DEFECTS
STRUCTURE AND PROPERTIES OF SLURRY-LIKE TITANIUM 67-07 M03-73418

TITANIUM, DEFORMATION
CHARACTERISTICS OF HOT DEFORMATION OF TITANIUM AND ITS ALLOYS 67-07 M07-73439

TITANIUM, DEOXIDIZERS
THE DEOXIDATION OF LIQUID IRON WITH TITANIUM 67-06 M04-72213

TITANIUM, DEPOSITION
GROWTH OF TI AND TIO2 THIN FILMS OBTAINED BY CATHODIC SPUTTERING 67-09 M12-77211

TITANIUM, DESORPTION
THE TRAPPING OF HYDROGEN IONS IN MOLYBDENUM, TITANIUM, TANTALUM AND ZIRCONIUM 67-10 M14-79336

TITANIUM, DIFFUSION
THE DETERMINATION OF THE TEMPERATURE DEPENDENCE PARAMETERS OF THE DIFFUSION COEFFICIENT BY THE METHOD OF REDUCED TIME 67-05 M14-69609
SELF-DIFFUSION AND ELASTIC CONSTANTS IN THE ANOMALOUS BCC METALS 67-06 M14-70427
DIFFUSION MECHANISM IN BODY-CENTERED CUBIC METALS 67-06 M14-72066
MUTUAL DIFFUSION OF COLUMBIUM WITH SOME REFRACTORY METALS 67-07 M14-74188
SOLUBILITY OF HYDROGEN IN TITANIUM AT 900 TO 1500 C 67-08 M14-74412
ABSORPTION METHOD OF DETERMINING THE DIFFUSION COEFFICIENT OF ALPHA-RADIOACTIVE ELEMENTS 67-10 M14-79639
DIFFUSION OF METALLIC IMPURITIES IN ZIRCONIUM AND TITANIUM 67-12 M14-82330

TITANIUM, ELECTRICAL PHENOMENA
INFLUENCE OF LOWER CHLORIDES OF TITANIUM ON THE ELECTRODE POTENTIALS OF CERTAIN METALS IN MOLTEN SALTS 67-09 M15-76510

TITANIUM, ELECTRICAL PROPERTIES
WORK FUNCTION OF METALS 67-06 M16-70492

TITANIUM, ELECTRODES
PREVENTION OF CORROSION IN PAPERMAKING MACHINES. CATHODIC POLARIZATION WITH PLATINUM-TITANIUM ANODES 67-05 M18-69418

TITANIUM, EXTRACTION
NONFERROUS METALS AND THE CHEMICAL ENGINEER. PT. 1. TITANIUM 67-02 M01-61140
USE OF COMPUTERS FOR CENTRALIZED CONTROL OF TITANIUM SPONGE MANUFACTURING 67-02 M03-59195
CRYSTALLIZATION OF METALS ON THE CATHODE DURING ELECTROLYSIS OF FUSED SALTS 67-02 M03-59647
ELECTROLYTIC METHODS FOR PRODUCING TITANIUM AND TITANIUM ALLOYS 67-02 M03-60229
REDUCING TITANIUM TETRACHLORIDE TO LOWER CHLORIDES BY SODIUM 67-02 M03-60542
CHARACTERISTICS OF PRODUCTS OF ELECTROLYTIC REFINEMENT OF SOME TITANIUM WASTES 67-02 M03-62055
CHLORINATION OF GRANULATED HIGH TI SLAGS IN A FLUID BED. PT. 2 67-04 M02-66866
EXTRACTION OF EUXENITE METAL VALUES BY FUSION WITH AMMONIUM SULFATE OR AMMONIUM BISULFATE 67-04 M03-67031
THE PATTERN OF NITROGEN, SILICON, AND SULFUR ELIMINATION AND THE BEHAVIOR OF TITANIUM DURING THE PRETREATMENT OF OPENHEARTH AND BASIC BESSEMER HOT METALS WITH SODA 67-07 M04-72707
COMPLEX UTILIZATION OF COPPER-VANADIUM CAKES OBTAINED IN TITANIUM PRODUCTION 67-08 M03-75211
TITANIUM MADE FROM POWER STATION ASH 67-09 M03-76811
EFFECT OF CERTAIN FACTORS ON THE ELECTROCRYSTALLIZATION OF TITANIUM FROM SALT MELTS 67-09 M03-77275

TITANIUM 67-10 M01-78362
CHEMICAL BENEFICIATION OF QUILON ILMENITE BY HIGH TEMPERATURE HYDROCHLORIC ACID LEACHING 67-10 M02-78758

TITANIUM, EXTRUSION
DEVELOPMENT AND STATUS OF THE APPLICATION OF THE EXTRUSION PROCESS TO STEEL 67-06 M07-70452

TITANIUM, FORGING
NEW BREAKTHROUGHS IN FORGING 67-04 M07-66284
NEW LIGHT METAL FABRICATING TECHNIQUES DEVELOPED WITH NUCLEAR ENGINES 67-06 M20-71586
FORGING INDUSTRY STANDARDS. A BUYER SERVICE 67-12 M07-82701

TITANIUM, FORMING
SOME ASPECTS OF HIGH ENERGY RATE FORMING RESEARCH AT R. A. R. D. E. 67-05 M08-69750

TITANIUM, GRAIN STRUCTURE
YIELDING AND PLASTIC DEFORMATION IN TEXTURED SHEET OF TITANIUM AND ITS ALLOYS 67-06 M13-71609

TITANIUM, HEAT TREATMENT
ISOTHERMAL SATURATION OF REFRACTORY METALS WITH NITROGEN AND STEP-WISE NITROGENATION 67-02 M10-61629
AUTOMATIC TOP-LOADED VACUUM FURNACE UTILIZED FOR SHEET OR PLATE HEAT TREATMENT 67-07 M10-73840
TITANIUM IS BEING READIED FOR MAJOR ROLE IN SST DESIGN 67-08 M07-76080
HEAT TREATMENTS OF TITANIUM AND ITS ALLOYS 67-08 M10-74749

TITANIUM, INTERMETALLICS
ELECTRIC AND MAGNETIC PROPERTIES OF THE SOLID SOLUTION VSI2-CRSI2 AND TISI2-CRSI2 67-02 M15-60183
ELASTIC PROPERTIES OF NITI AS A FUNCTION OF TEMPERATURE 67-04 M17-66116
IMPROVEMENT OF HEAT-RESISTING COBALT-BASE ALLOYS BY PRECIPITATION HARDENING 67-06 M14-70597
MOSSBAUER EFFECT STUDY OF BCC STRUCTURE ALLOYS, FEAL AND FETI 67-06 M15-70418
ELECTRICAL RESISTIVITY, ELASTIC MODULUS, AND DEBYE TEMPERATURE OF TITANIUM DIBORIDE 67-06 M15-71058
NEW A-15 PHASES 67-08 M16-75002
HALL COEFFICIENT BEHAVIOR IN TIFE, TICO, TINI, AND THEIR ALLOYS 67-10 M16-79119
EFFECT OF HYDROSTATIC EXTRUSION ON THE MECHANICAL PROPERTIES OF CUZN AND TINI 67-11 M17-81529

TITANIUM, JOINING
METALS JOINING 67-06 M11-71821
BRAZING OF TITANIUM AND TITANIUM ALLOYS 67-07 M11-72420

TITANIUM, MACHINING
TOUGH, TEMPERAMENTAL TITANIUM TAMED 67-05 M08-68421
CUTTING FLUID ADDITIVES TAME TITANIUM 67-06 M08-71206
MILLING TITANIUM EXTRUSIONS 67-06 M08-71488
WHAT YOU CAN DO WITH ABRASIVE-BELT MACHINING 67-08 M08-74464
MILLING TITANIUM EXTRUSIONS 67-09 M08-78274
WHAT HAS CHEM-MILL DONE FOR YOU LATELY 67-12 M08-82912
THERMAL COEFFICIENTS. A PROPOSED MACHINABILITY INDEX 67-12 M08-82949
PLASMA-ARC CUTTING OF TITANIUM AND ITS ALLOYS 67-12 M08-83182

TITANIUM, MECHANICAL PROPERTIES
TITANIUM FIXTURES--THEIR CONSTRUCTION AND USE 67-01 M01-58122
MECHANICAL PROPERTIES OF COMMERCIAL PURE TITANIUM AT HIGH TEMPERATURE 67-01 M17-58738
THE USE OF TITANIUM IN THE PULP AND PAPER INDUSTRY 67-01 M20-58767
THE RATE CONTROLLING MECHANISM DURING YIELDING AND FLOW OF ALPHA TITANIUM AT TEMPERATURES BELOW 0.4 TM 67-02 M17-60651
INFLUENCE OF HOT ROLLING CONDITIONS ON THE STRUCTURE AND PROPERTIES OF MOLYBDENUM, NIOBIUM AND TITANIUM 67-02 M17-60737
MECHANICAL PROPERTIES AT HIGH TEMPERATURE AND OPTICAL ELECTRON MICROSTRUCTURES OF ROLLED TITANIUM 67-02 M17-61029
DETERMINING THE QUALITY OF TITANIUM SPONGE BY ITS HARDNESS 67-02 M17-61284
PLASTIC DEFORMATION OF TITANIUM AT LOW TEMPERATURES 67-02 M17-61980
EFFECT OF SIDE GROOVING ON MEASUREMENTS OF PLANE-STRAIN FRACTURE TOUGHNESS 67-03 M17-65314
MICROHARDNESS OF CHEMICAL ELEMENTS 67-04 M17-66858
BRITTLE FRACTURE IN ALPHA-TITANIUM 67-04 M17-66938
THE CONFIGURATION OF IMPACT ENERGY-DEFLECTION DIAGRAMS 67-04 M17-67412
TEXTURE STRENGTHENING 67-05 M17-68669
ON THE IMPACT DEFORMATION OF LIGHT METALS 67-05 M17-68862
EFFECT OF PRERECRYSTALLIZATION ANNEAL ON CHANGES IN ELASTIC CHARACTERISTICS AND STRUCTURE OF COLD ROLLED TI AND ZR 67-05 M17-68973
MEASUREMENT OF ELASTIC MICROSTRAIN OF POLYCRYSTALLINE TITANIUM 67-05 M17-69638
TWINNING DURING PLASTIC DEFORMATION OF TITANIUM 67-06 M17-69982
REQUIREMENTS FOR METALLIC SURGICAL IMPLANTS AND PROSTHETIC DEVICES 67-06 M17-70121
ON SERRATED YIELDING AND NEGATIVE STRAIN-RATE SENSITIVITY 67-06 M17-71087
THE EFFECT OF TEMPERATURE ON THE YIELD STRESS OF COMMERCIAL PURITY ALPHA-TITANIUM 67-06 M17-72226
TITANIUM.. METAL WITH UNIQUE PROPERTIES 67-06 M20-70841
TRIAXIAL TESTS OF METALLIC MATERIALS AT ELEVATED TEMPERATURES 67-07 M17-72979
THERMALLY ACTIVATED DEFORMATION OF ALPHA TITANIUM BELOW 0.4 TM 67-07 M17-73062
A SPECIAL FEATURE OF METAL FLOW IN COOLING MEDIA CONSISTING OF LIQUIDS AND AIR 67-08 M17-75010
THE TEMPERATURE DEPENDENCE OF THE ELASTIC CONSTANTS OF TI AND TI ALLOYS 67-08 M17-75066
THE DROP IN THE DUCTILITY OF TITANIUM AT HIGH TEMPERATURES 67-09 M17-77042
CHARACTERISTICS OF PLASTIC DEFORMATION OF TITANIUM AT LOW TEMPERATURES 67-10 M17-78837
THE DEFORMATION OF TITANIUM WHEN TESTED IN DIFFERENT STRESSED STATES 67-10 M17-78947
BEHAVIOR OF MATERIALS FOR CHEMICAL APPARATUS AT HIGHER TEMPERATURES 67-10 M17-79095
HIGH-ENERGY RATE FORMING OF DIE CAVITIES 67-11 M08-80566
THE ANISOTROPY OF KNOOP HARDNESS IN UNALLOYED TITANIUM SHEET 67-11 M17-80683
EXTREMES IN ENVIRONMENTAL TESTING 67-11 M17-81239
METALS FOR THE SPACE AGE 67-12 M20-83001

TITANIUM, MELTING
LARGEST TITANIUM MELTING PLANT 67-03 M03-65149
THE ELECTRON BEAM MELTING OF TITANIUM 67-08 M03-74356

TITANIUM, METAL POWDERS
STUDY OF THE PRESSIBILITY OF METAL POWDERS OF DIFFERENT DISPERSITY 67-02 M09-62119

TITANIUM, METAL WORKING
DISCUSSION OF THE STRETCH-FORMABILITY 67-01 M08-58246
HOW TO BEND TITANIUM TUBING 67-02 M08-59033
CASTING HOT-SIZING DIES FOR TITANIUM 67-03 M06-65767
HOT DEEP DRAWING--B&P EXPERIENCE 67-03 M07-65036
USE OF POLYURETHANE PADS FOR COLD FORMING OPERATIONS 67-04 M07-66335
EXTRUDING DOWN PLUS FORGING UP GIVES HIGH HEAD-TO-SHANK RATIOS 67-05 M07-68303
FORMING TITANIUM IN HOT PRESS-WORKING 67-05 M08-69540
METAL SPINNING TOOLS UP FOR SPACE AGE JOBS 67-06 M08-70680
ATMOSPHERIC PRESSURE FORMS TITANIUM PANELS 67-07 M08-72987
ROLLING OF REFRACTORY METALS IN INERT CONTROLLED ATMOSPHERE 67-08 M07-76246
NEW HOT SIZING DIES FORM TITANIUM PARTS TO NET DIMENSIONS AT 1450 F 67-09 M08-77568
FORMING OF TITANIUM AND TITANIUM ALLOYS 67-11 M08-80678
TRIMMING OF TITANIUM MADE EASY 67-11 M08-81193
FORMING TITANIUM IN ONE STEP 67-11 M08-81361
DRIFT-BOLT AND FLOW-TURNING. PT. 2 67-12 M08-82060
RESEARCH AND DEVELOPMENT OF HIGH-RATE FORMING TECHNIQUES 67-12 M08-83235
EXPLOSIVES BLAST METAL INTO SHAPE 67-12 M08-83480

TITANIUM, METALLOGRAPHY
THE PREPARATION OF TITANIUM FOR TRANSMISSION ELECTRON MICROSCOPY 67-02 M13-59439
PREPARATION OF THIN FOILS OF TITANIUM AND TITANIUM ALLOYS FOR TRANSMISSION ELECTRON MICROSCOPY 67-04 M13-66338
TITANIUM, MICROSTRUCTURE
ALTERATIONS IN THE MICROSTRUCTURE OF TITANIUM ACCORDING TO DEFORMATION CONDITIONS 67-09 M13-77052
FISSION TRACK ETCHING AS A METALLOGRAPHIC TOOL 67-09 M13-77480
EXAMINATIONS OF TITANIUM USING AN ELECTRON MICROSCOPE 67-10 M13-79873
TITANIUM, NONDESTRUCTIVE TESTING
NONDESTRUCTIVE TESTING OF COMPOSITE STRUCTURES WITH THE SONIC RESONATOR 67-02 M19-60916
NONDESTRUCTIVE TEST DEVELOPMENT FOR ADVANCED AIRPLANES 67-03 M19-65317
TITANIUM, OXIDATION
ON THE FORMATION OF POLYMORPHIC OXIDE ON TITANIUM SURFACE 67-09 M18-77808
ON THE FORMATION OF POLYMORPHIC OXIDE ON THE TITANIUM SURFACE IN HIGH-TEMPERATURE WATER AND STEAM 67-09 M18-78217
HIGH-TEMPERATURE OXIDATION OF TITANIUM 67-10 M18-78668
TITANIUM, PHASE TRANSFORMATIONS
BULK SUBLIMATION OF TITANIUM 67-08 M14-75180
TITANIUM, PHASES /STATE OF MATTER/
HYDROGEN ABSORBTION AND ELASTO-MECHANICAL PROPERTIES OF PURE TITANIUM AND TITANIUM ALLOYS 67-02 M14-59089
TITANIUM, PHYSICAL PROPERTIES
MECHANISM OF SORPTION OF INERT-GAS IONS BY TITANIUM 67-06 M15-70493
STUDY OF THE WETTING OF TITANIUM 3 STEEL AND 1KH18N9T STEEL BY MAGNESIUM AND MAGNESIUM CHLORIDE 67-06 M15-71129
STUDY ON SOLUBILITY OF HYDROGEN IN TITANIUM AT 900 TO 1500 C 67-07 M15-72531
SUBLIMATION RATES, VAPOR PRESSURE AND HEATS OF SUBLIMATION OF RHENIUM, RHODIUM, PALLADIUM AND TITANIUM 67-09 M15-77835
TITANIUM, POWDER METALLURGY
CALCULATION OF TERMINAL FEED ANGLE DURING VERTICAL ROLLING OF POWDERS 67-06 M09-72318
TITANIUM, PRESSURE VESSELS
MANUFACTURE AND STUDY OF PRESSURE VESSELS WITH TITANIUM. PT. 3 67-11 M20-81183
TITANIUM, QUATERNARY SYSTEMS
THE 1200 C. ISOTHERMAL SECTION OF THE PHASE DIAGRAM OF THE QUASITERNARY SYSTEM TIC-NI-CR 67-02 M13-60578
STUDY OF PHASE EQUILIBRIUM IN A PORTION OF THE TI-AL-CR-FE-SI-B SYSTEM 67-09 M13-77298
TITANIUM, REACTIONS /CHEMICAL/
RESULTS OF TESTS ON DEOXIDIZING TITANIUM 67-02 M03-62056
CONTACT INTERACTION OF TIN WITH TI, ZR AND V IN VACUUM 67-02 M14-62243
EFFECT OF RATE OF MAGNESIOTHERMAL PRODUCTION OF TITANIUM SPONGE ON ITS STRUCTURE 67-04 M03-66975
THE DEOXIDIZING CAPACITY AND ACTIVITY OF TITANIUM IN NICKEL ALLOYS CONTAINING CHROMIUM 67-06 M03-69970
MAGNESIUM THERMAL METHOD OF OBTAINING TITANIUM-ALUMINUM ALLOYS 67-06 M03-70947
INVESTIGATION OF THE ELECTROLYTIC REDUCTION OF TITANIUM SULFATE --4-- DURING THE MANUFACTURE OF HIGHLY DISPERSED POWDERED COPPER 67-09 M03-77050
EFFECT OF VARIOUS FACTORS ON THE ELECTRODEPOSITION OF MANGANESE USING A TITANIUM CATHODE 67-11 M03-80455
CONSIDERATIONS AND EXPERIMENTS FOR A CRITICAL EVALUATION OF THE PT-COATED TI ANODES 67-11 M18-80804
THE REACTIONS OF LIQUID TITANIUM AND HAFNIUM WITH CARBON 67-12 M14-82878
TITANIUM, RECOVERING
HYDRATION OF TITANIUM ALLOY SCRAP 67-06 M03-71310
TITANIUM, REDUCTION /CHEMICAL/
EFFECT OF PRODUCTION CONDITIONS ON PHYSICAL CHARACTERISTICS OF MAGNESIOTHERMIC TITANIUM SPONGE 67-01 M03-57305
QUALITY OF MAGNESIUM-REDUCED TITANIUM SPONGE AS MEASURED FROM THE RESIDUAL AMOUNT OF CHLORINE 67-06 M03-71354
SOURCES OF CARBON CONTAMINATION OF MAGNESIUM-THERMAL SPONGE TITANIUM 67-06 M03-71883
METALLOGRAPHIC ANALYSIS OF POROSITY IN TITANIUM SPONGE, OBTAINED BY REDUCTION WITH MAGNESIUM 67-06 M13-71355
TITANIUM, REFINING
SEPARATION OF A MAGNESIOTHERMIC REACTION MASS IN AN APPARATUS WITH A BOTTOM CONDENSER 67-01 M03-57278
ELECTROREFINING OF TITANIUM-NITROGEN ALLOYS 67-02 M02-61775
STUDY OF ELECTRODE PROCESSES IN ELECTROLYTIC PRODUCTION AND REFINING OF TITANIUM IN FUSED SALTS 67-02 M03-59640
ELECTROLYTIC REFINING OF INDUSTRIAL WASTES OF TITANIUM ALLOYS 67-02 M03-61614
A COMPARATIVE EVALUATION OF TWO PLANS FOR REPROCESSING LIQUID MAGNESIUM RAW MATERIAL 67-04 M03-66973
FORMING THE STRUCTURE OF SPONGY TI 67-05 M03-68231
APPARATUS FOR OBTAINING TITANIUM METAL 67-06 M03-70141
HIGH-PURITY TITANIUM ELECTROWON FROM TITANIUM TETRACHLORIDE 67-06 M03-71386
THE ELECTROLYTIC REFINEMENT OF TITANIUM ALLOYS 67-09 M03-77276
SEPARATION OF AL FROM TI-AL ALLOYS BY A THERMAL METHOD 67-11 M03-81176
TITANIUM, ROLLING
SOME SPECIFIC FEATURES OF HOT ROLLING REFRACTORY METALS IN A VACUUM AND IN AN ATMOSPHERE OF INERT GAS 67-02 M07-62220
ROLLING ULTRATHIN TITANIUM FOIL 67-06 M07-71583
THE QUALITY OF THIN FOILS OF TITANIUM 67-10 M07-79046
TITANIUM, SINGLE CRYSTALS
DEFORMATION MECHANISMS IN TITANIUM AT LOW TEMPERATURES 67-03 M17-65084
TITANIUM, SOLUBILITY
SOLUBILITY OF HYDROGEN IN TITANIUM 67-12 M14-82164
SOLUBILITY OF HYDROGEN IN LIQUID TITANIUM AND NICKEL 67-12 M14-82165
TITANIUM, SPECTRA
EMISSION AND ABSORPTION K-SPECTRA OF METALLIC TITANIUM 67-02 M19-59945
K-ABSORPTION AND EMISSION SPECTRA OF METALLIC TITANIUM 67-07 M19-72600
TITANIUM, STABILIZERS /AGENTS/
THE ROLE OF THE GAS PHASE IN THE OXIDATION OF TITANIUM AND ALUMINUM DURING ELECTRO-MELTING OF STAINLESS STEEL 67-04 M04-66613
TITANIUM, STEEL MAKING
DEOXIDATION WITH TITANIUM IN LIQUID IRON 67-01 M04-58595
TITANIUM, SURFACE FINISHING
USE OF ELECTROMACHINING OPERATIONS IN INDUSTRIAL PRODUCTION. PT. 2. APPLICATIONS 67-01 M08-58718
HONE TO SIZE--SUPERFINISH TO SHAPE 67-02 M08-61126
TITANIUM, SURFACE PROPERTIES
SORPTION OF INERT GAS IONS BY TITANIUM 67-08 M14-75045
TITANIUM, TERNARY SYSTEMS
PHASE EQUILIBRIA IN THE TI-V-C SYSTEM AT 1450, 1600 AND 1800 C 67-01 M13-57600
THE STRUCTURE OF SOME ALLOYS IN THE TERNARY TI-MO-C SYSTEM 67-01 M14-57599
INVESTIGATION OF THE SYSTEM TICR2-TACR2-NBCR2 67-02 M13-59610
INVESTIGATION OF THE ALLOYS IN THE TI-AL-V SYSTEM 67-02 M13-59840
INVESTIGATION OF THE TICR2-ZRCR2 SYSTEM 67-02 M13-59897
PHASE EQUILIBRIUM DIAGRAM OF THE TI-NB-CR SYSTEM 67-02 M13-60743
X-RAY INVESTIGATIONS IN A FEW T-T5-AL SYSTEMS 67-02 M13-61888
STRUCTURE OF SOME ALLOYS OF THE TITANIUM-VANADIUM-CARBON SYSTEM 67-02 M13-62178
EFFECT OF VANADIUM AND MOLYBDENUM ON THE PROPERTIES AND PHASE CONVERSIONS OF THE METALLIDE TICR2 67-02 M13-62181
TERNARY CHEMICAL COMPOUNDS IN THE NI-TI-NB SYSTEM

67-02 M13-62183
TI-V-C TERNARY SYSTEM 67-02 M13-62240
STUDY OF THE PHASE DIAGRAM OF THE W-MO-TI TERNARY SYSTEM 67-03 M13-65792
THE TAU PHASE IN THE CO-TI-B TERNARY SYSTEM 67-05 M13-68583
ON THE EQUILIBRIUM DIAGRAM OF AL-NI-TI TERNARY SYSTEM 67-05 M13-68870
PHASE DIAGRAM OF THE NB-TI-ZR SYSTEM AND SUPERCONDUCTING PROPERTIES OF THE ALLOYS OF THIS SYSTEM 67-05 M13-69640
HIGH-TEMPERATURE CONDENSED-PHASE EQUILIBRIA IN THE SYSTEM TI-W-O 67-05 M14-68216
NUCLEAR MAGNETIC RESONANCE AND SPECIFIC HEAT MEASUREMENTS OF TRANSITION METALS AND ALLOYS.. TI-V-FE AND ZR-NB-MO SYSTEMS 67-05 M16-69758
TITANIUM-CHROMIUM-VANADIUM SYSTEM 67-06 M14-71079
INTERMEDIATE PHASES IN ALLOYS OF TITANIUM WITH IRIDIUM, RHODIUM, AND OSMIUM 67-07 M13-73277
LOW TEMPERATURE SPECIFIC HEAT OF BCC ALLOYS OF 3D TRANSITION ELEMENTS WITH 20 PER CENT AL 67-07 M15-73630
THE TITANIUM-RICH CORNER OF THE TERNARY TI-AL-CO SYSTEM 67-08 M13-75139
TERNARY SYSTEMS OF TI-ZR-C AND TI-HF-C 67-08 M13-75435
FUSIBILITY DIAGRAM OF THE TI-ZR-CR SYSTEM 67-08 M13-75895
STRUCTURE OF SOME ALLOYS OF THE SYSTEM TITANIUM-VANADIUM-CARBON 67-08 M13-75954
EFFECT OF VANADIUM AND MOLYBDENUM ON THE PROPERTIES AND PHASE TRANSFORMATIONS OF THE INTERMETALLIC COMPOUND TICR2 67-08 M13-75957
TERNARY INTERMETALLIC COMPOUNDS IN THE SYSTEM NI-TI-NB 67-08 M13-75959
THE SYSTEM TICR2-TACR2-NBCR2 67-09 M13-76928
INTERACTION BETWEEN THE METALLIDE TICR2 AND VANADIUM 67-09 M13-76942
INTERACTION BETWEEN THE METALLIDE TICR2 AND MOLYBDENUM 67-09 M13-76943
COBALT, NICKEL AND COPPER PHASES IN TERNARY MNCU2AL SOLUTION 67-09 M13-77572
EACH PHASE COMPOSITION OF TIC-NI CERMET 67-09 M14-77246
SUPERCONDUCTING HC-JC AND TC MEASUREMENTS IN THE NB-TI-N, NB-HF-N AND NB-V-N TERNARY SYSTEMS 67-09 M16-77449
X-RAY STRUCTURE INVESTIGATIONS OF SUPERCONDUCTING ALLOYS WITH NIOBIUM AS THE BASE 67-10 M13-79542
CEMENTED CARBIDES WITH HIGH-MELTING BINDERS. PT. 2. TERNARY EQUILIBRIUM SYSTEMS 67-10 M14-79979
STUDY OF THE EQUILIBRIUM DIAGRAM OF THE TINI-TIFE SYSTEM 67-11 M13-81172
PHASE EQUILIBRIUM IN THE TI-CO-AL SYSTEM 67-12 M13-82123
PHASE EQUILIBRIA IN THE TI-CO-SI SYSTEM 67-12 M13-82423
THE TITANIUM-NICKEL-SILICON SYSTEM 67-12 M13-82492
ISOTHERMAL SECTIONS AT 600 AND 750 C. OF THE PHASE DIAGRAM OF THE MOLYBDENUM-TITANIUM-ZIRCONIUM SYSTEM 67-12 M13-83353
ELECTRICAL RESISTANCE AND THERMAL EXPANSION OF TI-NB-CR ALLOYS 67-12 M15-82422

TITANIUM, THERMAL PROPERTIES
COEFFICIENT OF LINEAR EXPANSION OF COMMERCIAL TITANIUM 67-01 M15-58100
DETERMINING THE FUSION HEAT OF TITANIUM 67-06 M15-72110
TEMPERATURE DEPENDENCE OF HEAT CAPACITY OF SOME TITANIUM ALLOYS 67-12 M15-83535
APPLICATIONS OF TITANIUM IN SUPERSONIC AIRCRAFT 67-12 M20-82301

TITANIUM, THIN FILMS
THE PREPARATION OF THIN FOILS OF TITANIUM ALLOYS 67-06 M13-69950
ADSORPTION, SURFACE REACTION, AND MUTUAL DISPLACEMENT OF CO, CO2 AND O2 ON TITANIUM FILM 67-10 M14-79576

TITANIUM, TUBING /METAL/
STUDY OF THE PRODUCTION TECHNOLOGY OF POROUS TITANIUM TUBES 67-02 M09-60575

TITANIUM, WELDING
DIFFUSION WELDING OF TITANIUM WITH STEEL THROUGH AN INTERLAYER OF VANADIUM 67-01 M11-58217
NEW GUNS FOR ARGON ARC WELDING OF TITANIUM PARTS 67-02 M11-60135
NONHYGROSCOPIC FLUX FOR WELDING TITANIUM AND ITS ALLOYS 67-02 M11-61254
WELD STRENGTH IMPROVED BY ROLL PLANISHING 67-03 M08-65170
WELDING OF APPARATUS FROM TI-CLAD BIMETALS 67-04 M11-66347
ELECTRON MECHANISM OF DIFFUSION WELDING 67-04 M11-66432
A NON-HYGROSCOPIC FLUX FOR WELDING TITANIUM AND ITS ALLOYS 67-04 M11-66528
TORCHES FOR THE TIG WELDING OF TITANIUM PRODUCTS 67-04 M11-67675
ADVANTAGES OF PLASMA ARC WELDING 67-05 M11-69557
FORMING TITANIUM 67-06 M07-71584
FLUX FOR WELDING LIGHT METALS AND THEIR ALLOYS 67-06 M11-70151
FLUX FOR WELDING LIGHT ALLOYS FOR INSTANCE, TITANIUM AND ITS ALLOYS 67-06 M11-70153
NEW DEVELOPMENTS IN ELECTRON-BEAM WELDING 67-06 M11-70236
WARM-WELDING OF METALS IN ULTRA-HIGH VACUUM 67-06 M11-70953
DIFFUSION BONDING OF TITANIUM TO STEEL 67-06 M12-71727
THE ELECTRON THEORY OF DIFFUSION WELDING 67-07 M11-72691
GUIDE TO MIG WELDING PROCESSES 67-07 M11-73304
TITANIUM 67-07 M11-73305
THE WELDING OF TITANIUM FOR THE CHEMICAL INDUSTRY 67-07 M11-73797
ELECTRON BEAM WELDING DEVELOPMENTS IN U.S.A. 67-08 M11-75563
THE OPEN AIR WELDING OF TITANIUM 67-08 M11-75752
AN EQUATION FOR CALCULATING OPTIMUM WELDING CONDITION IN ELECTRON BEAM WELDING. PT. 7. STUDIES ON ELECTRON BEAM WELDING 67-08 M11-75758
LASER WELDING MOVES UP A NOTCH 67-08 M11-76063
MANUFACTURING TITANIUM HEAT EXCHANGERS 67-09 M11-77959
DIFFUSION WELDING OF COMMERCIALLY PURE TITANIUM 67-09 M11-78145
PLASMA ARC WELDS THIN MATERIALS FAST 67-11 M11-80524
FUEL TANKS FOR MOON SHOT--TIG-WELDED TITANIUM 67-12 M11-81931
NEW TECHNIQUES FOR MELT-THRU TEE WELDING 67-12 M11-82659

TITANIUM, X RAY ANALYSIS
A DIFFUSION STUDY IN THE TITANIUM-SILVER SYSTEM 67-04 M14-67265
COMPARISON OF ABSORPTION COEFFICIENTS OBTAINED BY DIFFERENT METHODS IN THE ULTRASOFT X-RAY REGION OF THE SPECTRUM 67-10 M16-79456

TITANIUM BASE ALLOYS
TI-679 --HIGH TEMPERATURE ALLOY-- 67-02 M01-59494
PLASTIC DEFORMATION OF TITANIUM AT LOW TEMPERATURES 67-02 M17-61980
A SURVEY OF THE TITANIUM ALLOYS, THEIR APPLICATIONS AND THEIR PROCESSING AND MANUFACTURING TECHNOLOGY 67-03 M01-65064
DEVELOPMENT OF TI-8AL-4CO ALLOY AT NRIM 67-04 M01-67571
HARVEY HA8116 --HIGH TEMPERATURE ALLOY-- 67-04 M01-68066
A TITANIUM-BASE ALLOY 67-06 M01-70383
A METHOD OF HEAT TREATING BETA-STRUCTURE-BASE TITANIUM ALLOYS 67-06 M01-70384

TITANIUM BASE ALLOYS, ABSORPTION /MATERIAL/
HYDROGEN ABSORPTION BY TI-NI, TI-CR AND TI-AL ALLOYS 67-02 M14-59893

TITANIUM BASE ALLOYS, AEROSPACE
AEROSPACE STRUCTURAL METALS HANDBOOK. V2. NON-FERROUS LIGHT METAL ALLOYS 67-04 M01-66200

TITANIUM BASE ALLOYS, AIRCRAFT
BOEING PUSHES TITANIUM AIRFRAME EFFORT 67-06 M20-70603

TITANIUM BASE ALLOYS, BOLTS
PREVENTING STRESS-CORROSION CRACKING IN THREADED FASTENERS 67-11 M18-81194

TITANIUM BASE ALLOYS, BONDING
MANUFACTURE OF VACUUM VESSELS FOR THE NINA SYNCHROTRON 67-05 M20-68503
DIFFUSION BONDING TECHNIQUES CHANGING AEROSPACE INDUSTRY 67-07 M11-73695
FORMING OF LARGE PARTS BY DIFFUSION BONDING

67-12 M11-82836

TITANIUM BASE ALLOYS, BRAZING
ON THE INTERACTION OF SOLDERS WITH TITANIUM DURING DIFFUSION BRAZING 67-01 M11-58209
DIFFUSION BRAZING OF TITANIUM USING INTERMEDIATE ELECTRODEPOSITS 67-02 M11-59516
DIFFUSION BRAZING OF TITANIUM WITH INTERMEDIATE ELECTROLYTIC COATINGS 67-04 M12-66465
DIFFUSION WELDING AND BRAZING OF TITANIUM 6AL-4V PROCESS DEVELOPMENT 67-12 M11-82819

TITANIUM BASE ALLOYS, BRITTLENESS
INFLUENCE OF HYDROGEN IN THE PROCESS OF CORROSION ON PROPERTIES OF WELDED TITANIUM ALLOYS 67-06 M18-71646

TITANIUM BASE ALLOYS, CENTRIFUGES
NEW ASPECTS IN THE DEVELOPMENT OF PREPARATIVE ULTRACENTRIFUGES 67-06 M20-70224

TITANIUM BASE ALLOYS, CHEMICAL ANALYSIS
SPECTROPHOTOMETRIC DETERMINATION OF GOLD IN TITANIUM ALLOYS, USING THE COLOR-REACTION OF M-SN-CL SYSTEM 67-02 M19-59720
SPECTROPHOTOMETRIC DETERMINATION OF GOLD IN TITANIUM ALLOYS 67-02 M19-60273
THE SPECTROPHOTOMETRIC DETERMINATION OF CHROMIUM IN ANODIC POWDERS 67-05 M19-69618

TITANIUM BASE ALLOYS, CHEMICAL CLEANING
PICKLING TITANIUM ALLOYS BY THE SULFURIC ACID METHOD 67-08 M12-75099

TITANIUM BASE ALLOYS, CHIPS
PURIFYING TITANIUM SHAVINGS OF SOLID ALLOY IMPURITIES 67-12 M02-83096

TITANIUM BASE ALLOYS, CLADDING
ROLLING TITANIUM-STEEL BIMETAL IN VACUUM AND IN AN INERT MEDIUM 67-01 M12-57280

TITANIUM BASE ALLOYS, CLEANING
INVESTIGATION OF THE EFFECT OF CHEMICAL TREATMENT OF TITANIUM ALLOY TUBES ON THEIR MECHANICAL PROPERTIES 67-09 M12-76437
A NEW METHOD FOR SURFACE TREATMENT OF TI AND TI ALLOYS 67-12 M12-83257

TITANIUM BASE ALLOYS, COATING
HIGHLIGHT DEVELOPMENTS IN PLATING 67-02 M12-60904
HEAT-RESISTANT TITANIUM ALLOYS CLAD WITH TITANIUM 67-02 M12-61618
EFFECT OF HEAT TREATMENT ON TEXTURE OF TI ALLOYS AND ON THE CR AND NI ELECTRO-DEPOSITED ON THEM 67-03 M14-65591
PLATING ON TITANIUM AND ITS ALLOYS 67-07 M12-73627
PROTECTION OF TITANIUM ALLOYS FROM HIGH-TEMPERATURE GAS CORROSION 67-07 M18-73016

TITANIUM BASE ALLOYS, COLD ROLLING
RESISTANCE TO DEFORMATION DURING COLD ROLLING OF VT14, VT15, AND VT16 TITANIUM-ALLOY STRIPS 67-12 M07-83097

TITANIUM BASE ALLOYS, COMBUSTION
COMBUSTIBILITY OF METAL POWDER 67-02 M09-61797

TITANIUM BASE ALLOYS, CORROSION
TITANIUM AND ITS ALLOYS USED IN CHEMICAL ENGINEERING AS CORROSION-RESISTANT MATERIALS 67-01 M18-57597
EFFECT OF OXYGEN CONTENT AND HEAT TREATMENT ON THE CORROSION RESISTANCE OF AT3 AND AT8 ALLOYS 67-01 M18-57598
CORROSION CRACKING OF TITANIUM ALLOYS IN ACIDS 67-01 M18-57602
INVESTIGATION OF THE CORROSION RESISTANCE AND ELECTROCHEMICAL AND MECHANICAL PROPERTIES OF ALLOYS OF THE TITANIUM-NIOBIUM SYSTEM 67-01 M18-57641
INVESTIGATION OF THE CORROSION RESISTANCE AND THE ELECTROCHEMICAL AND MECHANICAL PROPERTIES OF ALLOYS OF THE NIOBIUM-TITANIUM SYSTEM 67-01 M18-57643
TITANIUM-PERFORMANCE UP, COST DOWN 67-01 M18-58500
A CASE HISTORY OF TITANIUM STRESS CORROSION IN NITROGEN TETROXIDE 67-01 M18-58728
STRUCTURAL-KINETIC INVESTIGATION OF OXIDIZABILITY OF TITANIUM ALLOYS 67-02 M18-59644
THE EFFECT OF NICKEL, SILICON AND NIOBIUM ON THE OXIDATION OF TITANIUM AT HIGH TEMPERATURES 67-02 M18-59785
TITANIUM AND ITS ALLOYS FOR THE HEAVY CHEMICAL INDUSTRY 67-02 M18-59786
INVESTIGATION OF THE CORROSION AND ELECTROCHEMICAL BEHAVIOR OF TITANIUM AND ITS ALLOYS IN SOLUTIONS OF PERCHLORIC ACID 67-02 M18-59787
CORROSION AND ELECTROCHEMICAL BEHAVIOR OF TITANIUM AND ITS ALLOYS IN EXTRACTING PHOSPHORIC ACID 67-02 M18-59898
EFFECT OF OXYGEN ON THE MECHANICAL PROPERTIES AND HIGH-TEMPERATURE CORROSION RESISTANCE OF AT3 AND AT8 ALLOYS 67-02 M18-59899
CORROSION OF ALUMINUM AND TITANIUM IN GAPS 67-02 M18-60787
CORROSION AND COMPATIBILITY 67-02 M18-61113
THE APPLICATION OF TITANIUM ALLOYS FOR DISTILLATION PLANTS 67-03 M18-65310
ENVIRONMENTAL EFFECTS ON TITANIUM ALLOYS 67-03 M18-65406
INCREASING THE LIFE OF COMPRESSOR VALVE PLATES 67-04 M18-66346
CORROSION RESISTANCE OF STRUCTURAL MATERIALS IN SODIUM CHLORITE SOLUTIONS 67-04 M18-66591
CORROSION RESISTANCE OF TITANIUM IN NITRIC ACID 67-04 M18-66642
OXIDATION OF TITANIUM ALLOY CONTAINING UP TO 11 PER CENT ALUMINUM 67-04 M18-67285
RESISTANCE OF ALLOYED STEELS TO CORROSION AND EROSION 67-05 M18-68388
INFLUENCE OF HEAT TREATMENT ON THE STRUCTURE AND PROPERTIES OF VT1 TITANIUM AND THE OT4 ALLOY 67-05 M18-68390
WATER DESALINATION POSES TOUGH MATERIALS PROBLEMS 67-05 M18-68427
HYDRIDE FORMATION IN CORRODED TITANIUM ALLOYS 67-05 M18-68640
THE PART PLAYED BY NITROGEN IN THE OXIDATION OF TITANIUM IN AIR AT HIGH TEMPERATURES 67-05 M18-69052
A KINETIC AND MORPHOLOGICAL STUDY OF THE OXIDATION OF TI-CR ALLOYS IN CO2 AT 1000 C 67-05 M18-69704
BASIC PRINCIPLES FOR STRUCTURING CORROSION RESISTANT ALLOYS 67-05 M18-69821
CORROSION OF TITANIUM ALLOYS IN NITRIC ACID AT HIGH TEMPERATURE 67-05 M18-69826
CORROSION-RESISTANT ALLOYS IN CHLORIDE SOLUTIONS--MATERIALS FOR SURGICAL IMPLANTS 67-06 M18-70694
THE SCALING OF BINARY ALLOYS OF TITANIUM CONTAINING 5 WT. PER CENT OF ALUMINIUM, COPPER, OR COBALT IN CARBON DIOXIDE AT 1000 C 67-06 M18-70794
PROPERTIES AND APPLICATIONS OF TITANIUM AND ITS ALLOYS, PARTICULARLY IN THE SHAPE OF SHEETS AND TUBES 67-06 M18-71893
THE ROLE OF PALLADIUM IN ENHANCING CORROSION RESISTANCE OF TITANIUM 67-07 M18-72543
KINETIC FEATURES OF STRESS-CORROSION CRACKING 67-07 M18-73697
UTILIZATION OF THE POTENTIOSTATIC PULSE METHOD IN THE STUDY OF CORROSION PROCESSES 67-07 M18-73698
FRACTURE BEHAVIOR OF TITANIUM ALLOYS IN AQUEOUS ENVIRONMENT 67-07 M18-73723
CORROSION TESTING TITANIUM 67-08 M18-75059
PROTECTING TITANIUM ALLOYS AGAINST OXIDATION 67-08 M18-75096
RESEARCH INTO THE HIGH-TEMPERATURE CORROSION-RESISTANCE OF ALLOYS OF TUNGSTEN WITH NIOBIUM AND TITANIUM 67-08 M18-75143
STRESS CORROSION CRACKING OF HIGH-STRENGTH STEELS AND TITANIUM ALLOYS IN CHLORIDE SOLUTIONS AT AMBIENT TEMPERATURE 67-08 M18-75775
STRESS CORROSION CRACKING OF TITANIUM ALLOYS. PT. 1. TI..8-1-1 ALLOY IN AQUEOUS SOLUTIONS 67-09 M18-76623
RESEARCH INTO TITANIUM ALLOYS FOR USE IN COMPRESSORS 67-10 M18-78371
STRESS-CORROSION CRACKING OF A TITANIUM ALLOY 67-12 M18-82073
BASIC PRINCIPLES IN THE CREATION OF CORROSION-RESISTANT METAL ALLOYS 67-12 M18-82255
BEHAVIOR OF TITANIUM ALLOYS IN NITRIC ACID AT HIGH TEMPERATURES 67-12 M18-82260
FUNDAMENTAL ASPECTS OF THE DEVELOPMENT OF CORROSION PROOF ALLOYS 67-12 M18-82299
THE CORROSION BEHAVIOR OF PALLADIUM IN TITANIUM-PALLADIUM ALLOY 67-12 M18-82501
STRUCTURE OF TARNISH FILMS ON STRESS-CORROSION FRACTURE SURFACES OF TI-5 PER CENT AL-2.5 PER CENT SN ALLOY TESTED IN NITROGEN TETROXIDE 67-12 M18-82871

TITANIUM BASE ALLOYS, CRYSTAL LATTICES
A NOTE ON THE TEMPERING BEHAVIOR OF A TI-9 WT PER

CENT TA ALLOY QUENCHED FROM BETA REGION
67-01 M14-58739
THE ROLE OF YIELDING IN STRESS-CORROSION CRACKING
67-06 M18-70630
NEUTRON DIFFRACTION DETERMINATION OF THE STRUCTURE OF TI-FE AND TI-CO ALLOYS
67-08 M13-74646
NEUTRON DIFFRACTION STUDIES ON TITANIUM-CARBON AND ZIRCONIUM-CARBON ALLOYS 67-08 M14-75249

TITANIUM BASE ALLOYS, CRYSTAL STRUCTURE
INVESTIGATION OF THE FINE STRUCTURE IN TWO-PHASE TITANIUM ALLOYS 67-02 M13-59834
STUDY OF THE FINE STRUCTURE OF VT15 ALLOY AFTER HIGH-TEMPERATURE STRAIN HARDENING
67-06 M13-72121

TITANIUM BASE ALLOYS, DEFORMATION
NATURE OF PLASTIC DEFORMATION OF TITANIUM ALLOYS WITH VARIOUS FORMS OF LOADS 67-02 M17-60961
CHARACTERISTICS OF HOT DEFORMATION OF TITANIUM AND ITS ALLOYS 67-07 M07-73439

TITANIUM BASE ALLOYS, DIFFUSION
HIGH-TEMPERATURE STRENGTH AND DIFFUSIBILITY OF TITANIUM ALLOYS AFTER HEAT-TREATMENT AND THERMOMECHANICAL TREATMENT 67-02 M14-60292
RELATIONSHIPS GOVERNING THE FORMATION AND GROWTH OF A NEW PHASE DURING MUTUAL DIFFUSION OF METALS
67-02 M14-60738
SELF-DIFFUSION OF NIOBIUM IN NB-TI AND NB-ZR ALLOYS
67-02 M14-62241
SELF-DIFFUSION AND ELASTIC CONSTANTS IN THE ANOMALOUS BCC METALS 67-06 M14-70427
EFFECT OF PRESSURE ON THE DIFFUSION OF FE IN TI AND TI PLUS 10 PER CENT FE 67-08 M14-75225
CHARACTERISTICS OF GAS SATURATION OF ALPHA-BETA TITANIUM ALLOYS 67-10 M14-79141

TITANIUM BASE ALLOYS, ELECTRICAL PROPERTIES
ELECTRICAL RESISTANCE OF TI-AL ALLOYS AT 78 TO 373 K 67-08 M15-75280

TITANIUM BASE ALLOYS, EXTRACTION
ELECTROLYTIC METHODS FOR PRODUCING TITANIUM AND TITANIUM ALLOYS 67-02 M03-60229

TITANIUM BASE ALLOYS, EXTRUSION
INFLUENCE OF FRICTION AND THE BEVEL ANGLE OF A DIE ON PRESSING OF TITANIUM 67-10 M07-79047

TITANIUM BASE ALLOYS, FIBER METALLURGY
INFLUENCE OF CONSTITUENT PROPERTIES UPON THE STRUCTURAL EFFICIENCY OF FIBROUS COMPOSITE SHELLS
67-01 M17-58521

TITANIUM BASE ALLOYS, FORGING
NEW BREAKTHROUGHS IN FORGING 67-04 M07-66284
DROP FORGING. A SURVEY OF THE INDUSTRY IN THE U. K.
67-07 M07-72759
FORGING METALLURGY--TITANIUM. PT. 2. FORGING METHODS AND EQUIPMENT 67-10 M07-79778
THE INFLUENCE OF FORGING CONDITIONS IN DIE FORGING PRACTICE ON THE MECHANICAL PROPERTIES OF TITANIUM-ALLOY DIE FORGINGS 67-10 M07-79956
HOT DIE FORGING STUDY AIMED AT HIKING TITANIUM POTENTIAL 67-11 M07-80768
THE EFFECT OF BETA FORGING ON SEVERAL TITANIUM ALLOYS 67-11 M17-80517
HOT DIE FORGING STUDY AIMED AT HIKING TITANIUM POTENTIAL 67-12 M07-81851
FORGING METALLURGY--TITANIUM. PT. 3. HEAT TREATING AND MECHANICAL PROPERTIES 67-12 M07-82703

TITANIUM BASE ALLOYS, FORGINGS
COMBINED HEAT AND MECHANICAL TREATMENT OF VT14 ALLOY FORGINGS 67-06 M10-71357

TITANIUM BASE ALLOYS, FORMING
TRANSITION BETWEEN THEORY AND PRACTICE IN ULTRASONIC METAL DEFORMATION PROCESSING
67-03 M08-65812
HIGH ENERGY RATE FORGING OF TI-6AL-4V ALLOY
67-05 M08-69740
CONTROL OF SPRINGBACK BY POSITIVE EDGE RESTRAINT DURING HIGH ENERGY DEFORMATION
67-10 M08-79527

TITANIUM BASE ALLOYS, GRAIN STRUCTURE
YIELDING AND PLASTIC DEFORMATION IN TEXTURED SHEET OF TITANIUM AND ITS ALLOYS 67-06 M13-71609

TITANIUM BASE ALLOYS, HARDENING
EXPLOSIVE SHOCK HARDENING.. NEW TOOL SHOWS PROMISE
67-02 M17-60246

TITANIUM BASE ALLOYS, HEAT TREATMENT
RATIONAL METHODS OF THERMOMECHANICAL WORKING TITANIUM ALLOY VT 15 AND ITS WELDED JOINTS
67-02 M10-58981
EFFECT OF HEAT CYCLING ON PROPERTIES AND STRUCTURE OF ALLOYS CONTAINING PHASES WITH VARIOUS COEFFICIENTS OF LINEAR EXPANSION
67-04 M10-67922
EFFECT OF SECONDARY RECRYSTALLIZATION ON THE STRUCTURE AND MECHANICAL PROPERTIES OF SINGLE-PHASE TITANIUM ALLOYS IN THE CAST STATE
67-05 M17-68246
INFLUENCE OF HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT ON STRUCTURE AND MECHANICAL PROPERTIES OF TITANIUM ALLOYS 67-06 M10-70069
HEAT TREATMENT OF NONFERROUS ALLOYS
67-06 M10-71935
TITANIUM IS BEING READIED FOR MAJOR ROLE IN SST DESIGN 67-08 M07-76080
HEAT TREATMENTS OF TITANIUM AND ITS ALLOYS
67-08 M10-74749
HEAT TREATING TITANIUM AND ITS ALLOYS
67-10 M10-78626
EFFECT OF HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT ON THE FINE STRUCTURE AND MECHANICAL PROPERTIES OF TITANIUM ALLOYS
67-10 M10-78815
DEVELOPMENT OF HEAT TREATMENT PROCESSES IN MACHINERY CONSTRUCTION 67-10 M10-79214
FURNACES FOR TREATING THE REFRACTORY STEELS AND SPECIAL ALLOYS USED IN THE AERONAUTICS AND SPACE INDUSTRY 67-12 M10-83377

TITANIUM BASE ALLOYS, INGOTS
ZONAL CORING IN INGOTS OF TITANIUM ALLOYS
67-02 M03-62221

TITANIUM BASE ALLOYS, JOINING
THE BIG SQUEEZE 67-06 M11-71745
BRAZING OF TITANIUM AND TITANIUM ALLOYS
67-07 M11-72420

TITANIUM BASE ALLOYS, MACHINING
ROTATING CARBIDE INSERTS MACHINE TITANIUM FASTER
67-03 M08-65119
TOOL SELECTION FOR TOUGH ALLOYS
67-03 M08-65492
THE ROLE OF CHEMICAL REACTIONS IN THE PREPARATION OF METAL SURFACES BY ABRASION
67-03 M08-65596
EDM FLEXES ITS MUSCLES 67-03 M08-65666
CUTTING FLUIDS TAME TITANIUM 67-04 M08-66301
NC MACHINING OF TITANIUM 67-05 M08-69502
RECOMMENDATIONS FOR DRILLING TOUGH MATERIALS
67-05 M08-69798
PRODUCTION EDM COMES OF AGE 67-06 M08-71450
ECM, AND THE SHAPE OF THINGS TO COME
67-07 M08-72799
CUTTING PROPERTIES OF MONOLITHIC CERMET END CUTTERS
67-07 M08-74292
TEMPERATURE KEY TO MACHINING 67-08 M08-75530
MACHINING TITANIUM ALLOYS 67-08 M08-75859
MILLING TITANIUM AT HIGH SPEED WITH ROTATING CARBIDE INSERTS 67-09 M08-77742
ELECTROCHEMICAL MACHINING TITANIUM ALLOY WAFFLE-GRID PANELS 67-09 M08-77905
THE APPLICABILITY OF THE BINOMIAL LAW TO THE PROCESS OF FRICTION IN THE CUTTING OF METALS
67-10 M08-79108
APPLICATION OF CUTTING FLUIDS IN DRILLING
67-10 M08-79505
ELECTROCHEMICAL MACHINING AIRFOIL CONTOURS OF TURBINE BLADES 67-10 M08-79511
SURFACE INTEGRITY IN MACHINING AND GRINDING
67-10 M08-79515
EFFICIENT METHODS OF MACHINING NONMAGNETIC MATERIALS 67-12 M08-81995
ADVANCED MACHINING TECHNOLOGY 67-12 M08-82645
PRODUCIBILITY ASPECTS OF AEROSPACE PRODUCTS WITH REGARD TO MACHINABILITY 67-12 M08-82889
PLASMA-ARC CUTTING OF TITANIUM AND ITS ALLOYS
67-12 M08-83182

TITANIUM BASE ALLOYS, MECHANICAL PROPERTIES
FATIGUE STRENGTH OF THE COMMERCIAL TI ALLOYS
67-01 M17-57386
TITANIUM AS AN AEROSPACE MATERIAL
67-01 M17-57456
FATIGUE BEHAVIOR OF ALUMINUM AND TITANIUM SHEET MATERIALS DOWN TO MINUS 423 F
67-01 M17-57620
SHEAR STRENGTH OF SEVERAL ALLOYS AT LIQUID-HYDROGEN TEMPERATURES 67-01 M17-57625
CHANGE IN THE STRUCTURE AND PROPERTIES OF THE BASIC MATERIAL AND WELDED JOINTS OF VT15 ALLOY DURING HEAT TREATMENT 67-01 M17-58097
EFFECT OF ALLOYING ON THE ELASTIC MODULUS, STRENGTH AND PLASTICITY OF TITANIUM AT MINUS 196 TO 800 C 67-01 M17-58129

DEPENDENCE OF THE MECHANICAL AND HEAT RESISTING PROPERTIES OF ST1 TITANIUM ALLOY ON HEAT TREATMENT 67-01 M17-58130
INVESTIGATION OF ALLOYS OF THE TI-MO-CR-FE-AL SYSTEM 67-01 M17-58293
FRACTURE TOUGHNESS TESTS FOR TITANIUM ALLOY PLATE AND FORGINGS 67-01 M17-58605
EFFECT OF DEFORMATION RATE AND TEMPERATURE ON MECHANICAL PROPERTIES OF SELECTED HIGH STRENGTH ALLOYS 67-01 M17-58682
IMPLEMENTATION OF HIGH RELIABILITY OBJECTIVES OF SURVEYOR PRESSURE VESSELS 67-01 M17-58729
TITANIUM AND TITANIUM ALLOYS 67-02 M01-61798
INVESTIGATION OF THE HEAT RESISTANCE OF AT3 TITANIUM ALLOY AFTER CONVENTIONAL HEAT TREATMENT AND AFTER AUSFORMING 67-02 M17-59642
INVESTIGATION OF THE STRENGTH OF TITANIUM ALLOYS BY THE BENDING METHOD AT 600 C 67-02 M17-59783
THE ELASTIC MODULUS OF METALS AND TITANIUM ALLOYS 67-02 M17-59832
SOME MECHANICAL AND PHYSICAL PROPERTIES OF ALLOYS OF THE TI-CR-FE SYSTEM 67-02 M17-59835
SOME MECHANICAL AND PHYSICAL PROPERTIES OF AT13 ALLOYS 67-02 M17-59836
EFFECT OF HEAT TREATMENT ON THE PROPERTIES, STRUCTURE AND PHASE COMPOSITION OF VT3-1 ALLOY 67-02 M17-59841
SOME REGULARITIES OF THE FORMATION OF HYDROGEN BRITTLENESS IN VT3-1 AND VT15 ALLOYS 67-02 M17-59842
INVESTIGATION OF THE POSSIBILITY OF USING TITANIUM ALLOYS FOR SURGICAL INSTRUMENTS AND APPARATUS AND METHODS FOR JOINING TISSUES 67-02 M17-59900
ON THE MECHANICAL PROPERTIES OF TI-AL-CO ALLOYS AT ROOM TEMPERATURE 67-02 M17-59989
AN EXAMINATION OF ALLOYS IN THE SYSTEM TI-AL-MO-FE 67-02 M17-60571
DETERMINING THE STRESSED STATE OF MATERIALS BY ULTRASONICS 67-02 M17-60665
FATIGUE CRACK PROPAGATION IN METALS 67-02 M17-60700
SOME FRACTURE CONSIDERATIONS IN THE DESIGN AND ANALYSIS OF SPACECRAFT PRESSURE VESSELS 67-02 M17-61138
EFFECT OF LOW-TEMPERATURE TREATMENT ON STRUCTURE AND PROPERTIES OF TITANIUM ALLOYS 67-02 M17-62060
ALLOY PROPERTIES ON AN ALUMINIDE BASE 67-02 M17-62180
SUPERSONIC TRANSPORT DESIGN EVOLUTION 67-02 M20-61136
HOW TO USE EXOTIC MATERIALS IN AEROSPACE STRUCTURES 67-02 M20-61623
EFFECT OF GAS CONTENT ON TENDENCY TO DELAYED FRACTURE AND COLD CRACKING IN WELDING TITANIUM ALLOYS OF THE TI-AL-ZR SYSTEM 67-03 M17-65047
TITANIUM ALLOYS LOOK BEST FOR MACH 3 TRANSPORT AIRCRAFT 67-03 M17-65489
STABILIZATION OF SILUMIN BY THERMAL CYCLING 67-04 M10-68092
TEXTURED TITANIUM IN DESIGN 67-04 M17-66290
CASE HISTORIES OF FAILURES IN TITANIUM AND SUPER-ALLOY FORGINGS 67-04 M17-66689
A DISCUSSION OF SLOW CRACK GROWTH ASSOCIATED WITH PLANE-STRAIN INSTABILITY 67-04 M17-66936
EFFECT OF QUALITY OF STARTING BILLET OF VT8 ALLOY ON PROPERTIES OF THE PIECES 67-04 M17-66978
A METHOD OF DETERMINING PLASTIC ANISOTROPY OF SHEET METAL 67-04 M17-67091
NEW TITANIUM ALLOYS FOR STRUCTURAL FORGINGS 67-04 M17-67200
EFFECT OF HEAT TREATMENT AND PLATING ON THE BIAXIAL TENSILE STRENGTH OF TITANIUM ALLOYS VT14, VT15 AND VT16 67-04 M17-67535
METHOD OF TESTING WELDED JOINTS AND UNITS, MAINLY FROM TITANIUM ALLOYS 67-04 M19-66835
THE BEHAVIOR OF SOME --ALPHA PLUS BETA-- TI ALLOYS UNDER STATIC AND DYNAMIC STRESS AT ELEVATED TEMPERATURES 67-05 M17-68514
DISCUSSION ON METHODS OF ESTIMATING THE TENDENCY OF METALS AND ALLOYS TOWARD BRITTLE FAILURE. METHOD OF ESTIMATING THE CRITICAL LENGTH OF A CRACK IN A SINGLE LOADING 67-05 M17-68740
HIGH-STRENGTH TI ALLOY, HYLITE 50, FOR AERONAUTICAL APPLICATIONS 67-05 M17-68788
EDGEWISE COMPRESSIVE PROPERTIES OF TITANIUM AND NICKEL-BASE SANDWICH CONSTRUCTIONS AT ELEVATED TEMPERATURES 67-05 M17-68932
EFFECT OF HYDROGEN ON THE STRUCTURE AND PROPERTIES OF VT3-1 ALLOY AFTER VARIOUS HEAT TREATMENTS 67-05 M17-68977
HIGH-STRENGTH TITANIUM-BASE ALLOY 67-05 M17-69237
MEASUREMENT OF ELASTIC MICROSTRAIN OF POLYCRYSTALLINE TITANIUM 67-05 M17-69638
TWINNING DURING PLASTIC DEFORMATION OF TITANIUM 67-06 M17-69982
STUDY OF THE MECHANICAL PROPERTIES OF SOME TITANIUM ALLOYS AT LOW TEMPERATURES 67-06 M17-69988
ON THE SELECTION OF ALLOYING ELEMENTS FOR THE PRODUCTION OF TITANIUM-BASE HEAT RESISTANT ALLOYS 67-06 M17-69990
TITANIUM AND TITANIUM ALLOYS 67-06 M17-70017
MECHANICOTHERMAL TREATMENT OF VT15 TITANIUM ALLOY WELDED JOINTS 67-06 M17-70386
ROOM-TEMPERATURE CREEP AND FATIGUE PROPERTIES OF TITANIUM ALLOYS 67-06 M17-70685
IMPROVING THE STRENGTH OF CONTAINERS MADE OF THE VT15 TITANIUM ALLOY BY LOW-TEMPERATURE HEAT AND MECHANICAL TREATMENT 67-06 M17-70949
CRACK PROPAGATION AT STRESSES BELOW THE FATIGUE LIMIT 67-06 M17-71084
STUDY OF CREEP AND STRESS RELAXATION OF HIGH STRENGTH NONMAGNETIC MATERIALS 67-06 M17-71370
TENSILE TESTS AND STRESS-STRAIN MEASUREMENTS IN VACUUM AT HIGH TEMPERATURES 67-06 M17-71513
THE BIAXIAL STRENGTHENING OF TEXTURED TITANIUM 67-06 M17-71628
EFFECT OF VARIATION IN POISSONS RATIO ON PLASTIC TENSILE INSTABILITY 67-06 M17-71631
PROBLEMS, PROPERTIES AND SELECTION OF STRUCTURAL METALS FOR USE IN CRYOGENIC ENVIRONMENT 67-06 M17-72092
CHANGE IN STRUCTURE AND PROPERTIES OF VT5 TITANIUM ALLOY AS A RESULT OF GAS ABSORPTION 67-06 M17-72122
TITANIUM.. METAL WITH UNIQUE PROPERTIES 67-06 M20-70841
HIGH-STRENGTH LIGHT ALLOYS 67-07 M01-74260
ADVANCED METAL COMPOSITES--A STATUS REPORT 67-07 M09-73720
EFFECT OF GAS CONTENT ON THE TENDENCY TO DELAYED FAILURE AND COLD CRACKING WHEN WELDING CERTAIN TITANIUM ALLOYS 67-07 M17-73967
HYLITE 50 67-08 M01-75685
DETERMINATION OF PLANE STRAIN FRACTURE TOUGHNESS 67-08 M17-74683
NEW FINDINGS STRETCH TITANIUM PERFORMANCE LIMITS 67-08 M17-74742
HIGH-TEMPERATURE THERMOMECHANICAL TREATMENT OF THE BETA-ALLOY OF THE TI-MO-CR-FE-AL SYSTEM 67-08 M17-74962
THE TEMPERATURE DEPENDENCE OF THE ELASTIC CONSTANTS OF TI AND TI ALLOYS 67-08 M17-75066
CRACK SENSITIVITY OF VT14 AND VT16 TITANIUM 67-08 M17-75217
CREEP RUPTURE AND DYNAMIC STRENGTH TESTS OF TI ALLOYS TIALV4, TIAL6V4 AND TIAL9V3 AT TEMPERATURES OF 350 TO 500 C 67-08 M17-75324
MECHANICAL PROPERTIES OF METALS 67-08 M17-75600
PROPERTIES OF ALLOYS BASED ON THE ALUMINIDE TI3AL 67-08 M17-75956
DETERMINATION OF THE HEAT RESISTANCE OF TITANIUM ALLOYS 67-08 M17-76012
VARIATION OF STRESS RELAXATION OF TITANIUM ALLOYS AS A FUNCTION OF THE CONDITIONS OF DEFORMATION AT HIGH TEMPERATURE 67-08 M17-76019
DEFORMATION PROPWETIES OF THE ALPHS PLUS BETA TITANIUM ALLOY, TIAL 8 MO 1 V 1 67-08 M17-76150
STRUCTURE AND PROPERTIES OF AT6 TI ALLOY AS AFFECTED BY STRESSES 67-08 M17-76248
EFFECTS OF HYDROGEN ON THE PROCESSES TAKING PLACE IN VT3-1 ALLOY DURING AGING 67-09 M17-77040
THE EFFECTS OF QUENCHING VT5-1 ALLOY FROM THE ALPHA-REGION, FOLLOWED BY TEMPERING, ON ITS MECHANICAL PROPERTIES 67-09 M17-77061
EFFECT OF HYDROGEN ON THE NATURE OF CRACK PROPAGATION IN VT15 TITANIUM ALLOY DURING TENSILE TESTING 67-09 M17-77127
ELASTIC CONSTANTS OF TI-AL-CR-FE-SI SYSTEM ALLOYS 67-09 M17-77297

HEAT TREATMENT AND MECHANICAL PROPERTIES AT ROOM TEMPERATURE OF TI-8 PER CENT AL-4 PER CENT CO ALLOY 67-09 M17-77987
HIGH-TEMPERATURE MECHANICAL PROPERTIES OF TI-8 PER CENT AL-4 PER CENT CO ALLOY 67-09 M17-77988
MECHANICAL-THERMAL TREATMENT OF WELDED JOINTS IN VT-15 TITANIUM ALLOY 67-09 M17-78086
TESTING SHEET MATERIALS WITH VARIOUS RESERVES OF ELASTIC ENERGY FOR BIAXIAL TENSION 67-09 M17-78159
CREEP OF TITANIUM ALLOYS 67-09 M17-78161
FORGING METALLURGY--TITANIUM. PT. 1 67-09 M17-78168
DESIGN CONSIDERATIONS IN MATERIAL SELECTION FOR ROCKET-MOTOR CASES 67-09 M20-78270
RADIATION EFFECTS ON SHEAR STRENGTH OF SEVERAL ALLOYS AT LIQUID HYDROGEN ENVIRONMENT 67-10 M16-78492
A REVIEW OF CRYOGENIC FRACTURE TOUGHNESS BEHAVIOR 67-10 M17-78484
EVALUATING ALLOYS FOR FAILURE-SAFE STRUCTURES 67-10 M17-78763
FATIGUE PROPERTIES OF TITANIUM ALLOY FASTENERS 67-10 M17-78851
BENDING WITHOUT BREAKING 67-10 M17-79184
INNER SPACE--A METALLURGICAL CHALLENGE 67-10 M17-79781
INFLUENCE OF HYDROGEN DURING CORROSION ON THE PROPERTIES OF TITANIUM WELDS 67-10 M18-79613
MECHANICAL PROPERTIES OF METALS 67-11 M17-80764
EFFECT OF CERTAIN ALLOYING ELEMENTS ON THE STRENGTH AND PLASTICITY OF TITANIUM IN THE -196 TO 800 C. TEMPERATURE RANGE 67-11 M17-81163
EFFECT OF HYDROGEN ON THE MECHANICAL PROPERTIES OF VT15 ALLOY AND DISCUSSION OF THE MECHANISM OF HYDROGEN EMBRITTLEMENT 67-11 M17-81168
TITANIUM AND TITANIUM ALLOYS 67-12 M01-81942
EFFECT OF HEAT TREATMENT ON THE STRUCTURE, MECHANICAL PROPERTIES AND CORROSION CHARACTERISTICS OF VTZ-1 ALLOY 67-12 M10-82190
THE EFFECT OF ALPHA PLUS BETA AND BETA FORGING ON THE FRACTURE TOUGHNESS OF SEVERAL HIGH-STRENGTH TITANIUM ALLOYS 67-12 M17-81930
EXAMINATION OF THE METASTABLE BETA-ALLOYS OF THE TI-MO-FE-AL SYSTEM 67-12 M17-82120
CREEP DETERMINATIONS ON TI-AL-V ALLOYS BY BENDING AT ELEVATED TEMPERATURES 67-12 M17-82163
THE MECHANISM OF HIGH TEMPERATURE STEADY STATE CREEP OF METALS AND ALLOYS 67-12 M17-82416
SUPERPLASTICITY IN SOME TITANIUM AND ZIRCONIUM ALLOYS 67-12 M17-82728
THE KNOOP-HARDNESS YIELD LOCI FOR TWO TITANIUM ALLOYS 67-12 M17-82770
TITANIUM ALLOYS FOR CRYOGENIC TECHNOLOGY 67-12 M17-83532

TITANIUM BASE ALLOYS, MELTING
ELECTRON BEAM MELTING OF COLUMBIUM-BASE AND TITANIUM-BASE ALLOYS 67-08 M03-75212

TITANIUM BASE ALLOYS, METAL WORKING
HIGH-TEMPERATURE THERMOMECHANICAL WORKING OF TITANIUM VT15 ALLOY 67-02 M10-58900
LOCKHEED REFINES TITANIUM FORMING 67-03 M07-65408
COLD DEFORMATION AND ANNEALING OF THE VT15 ALLOY 67-05 M07-68389
AIR FORCE MATERIALS LABORATORY INTERESTS AND PAST EXPERIENCE IN HIGH-ENERGY-RATE FORMING OF METALS 67-05 M07-68985
FORMING TITANIUM 67-06 M07-71584
HIGH ENERGY RATE FORMING COMES OF AGE 67-10 M08-78766
EFFICIENCY OF DRAWING IN AN ULTRASONIC FIELD 67-11 M08-80757
TRIMMING OF TITANIUM MADE EASY 67-11 M08-81193
THE USE OF HIGH TEMPERATURE THERMOMECHANICAL TREATMENT IN THE MANUFACTURE OF EXTRUDED TUBES OF TITANIUM ALLOY VT 15 67-12 M07-82414

TITANIUM BASE ALLOYS, METALLOGRAPHY
PREPARATION OF THIN FOILS OF TITANIUM AND TITANIUM ALLOYS FOR TRANSMISSION ELECTRON MICROSCOPY 67-04 M13-66338

TITANIUM BASE ALLOYS, MICROSTRUCTURE
EXPLORATORY EXPERIMENT ON FEASIBILITY OF MAKING A TI-MG ALLOY UNDER HIGH PRESSURE 67-02 M13-59442
INFLUENCE OF DEFORMATION RATE AND DEFORMATION DEGREE ON TWINNING IN TITANIUM 67-02 M13-61224
RELATIONSHIP OF MICROSTRUCTURE TO SOME MECHANICAL PROPERTIES OF TI-8AL-1V-1MO 67-04 M14-66924
THERMAL ETCHING OF BETA ALLOY OF THE TI-MO-FE-AL SYSTEM 67-06 M13-69989
TRANSMISSION ELECTRON MICROSCOPE STUDY OF THE MARTENSITE OF TITANIUM-3 WT PER CENT IRON ALLOY 67-09 M13-78242
ELECTRON-MICROSCOPY STUDIES OF TRANSFORMATIONS IN A TI-V ALLOY 67-12 M13-82975

TITANIUM BASE ALLOYS, OPTICAL PROPERTIES
OPTICAL PROPERTIES OF SUPERCONDUCTING NB-TI ALLOYS 67-08 M15-74637

TITANIUM BASE ALLOYS, OXIDATION
COMPARATIVE OXIDIZABILITY OF TITANIUM ALLOYS WHEN HEATED IN AIR 67-01 M18-57315
SOME FEATURES OF THE OXIDATION OF TITANIUM 67-05 M18-68245
STUDY OF OXIDATION IN HF-TI ALLOYS 67-08 M18-75898
OXIDATION RESISTANCE OF TI-AL ALLOYS 67-08 M18-75899

TITANIUM BASE ALLOYS, PHASE DIAGRAMS
PHASE DIAGRAM OF THE TITANIUM-OXYGEN-HYDROGEN SYSTEM 67-02 M13-61553

TITANIUM BASE ALLOYS, PHASE TRANSFORMATIONS
THERMAL-DILATION BEHAVIOR OF TITANIUM ALLOYS DURING REPEATED CYCLING THROUGH THE ALPHA-BETA TRANSFORMATION 67-02 M14-59432
ON THE CLASSIFICATION OF ALLOYING ELEMENTS DURING FORMATION OF TITANIUM-BASE ALLOYS 67-02 M14-60547
PHASE TRANSFORMATIONS IN TITANIUM ALLOYS 67-02 M14-60548
EFFECT OF OXYGEN ON PROPERTIES AND STRUCTURE OF VT16 TITANIUM ALLOY 67-03 M14-65587
PHASE TRANSFORMATION IN THE ALLOY TI-8AL-1MO-1V 67-04 M14-66934
X-RAY STUDY OF PHASE TRANSFORMATIONS DURING HEAT TREATMENT OF VT3-1 TI ALLOY 67-05 M14-69645
STUDY OF THE NI3AL-NI3TI SYSTEM 67-08 M13-75890
STUDY OF A PORTION OF THE TI-AL-CR-FE-SI-B SYSTEM 67-08 M13-75897
THE MARTENSITIC TRANSFORMATION IN TI-NI ALLOYS OF NEAR-EQUIATOMIC COMPOSITION 67-08 M14-76217
ISOTHERMAL TRANSFORMATIONS IN TITANIUM-MOLYBDENUM ALLOYS 67-09 M14-76562
ISOTHERMAL TRANSFORMATIONS IN TITANIUM-CHROMIUM ALLOYS 67-09 M14-77069
SPONTANEOUS MARTENSITE REACTION IN TI-CR ALLOYS 67-09 M14-77737
PHASE TRANSFORMATIONS IN --ALPHA PLUS BETA-- TITANIUM ALLOYS, AND CONSISTENCY OF THEIR DIMENSIONS 67-10 M14-78344
REINVESTIGATION OF THE TITANIUM-RICH REGION OF THE TITANIUM-ALUMINIUM DIAGRAM 67-10 M14-78451
INFLUENCE OF HYDROGEN ON ISOTHERMAL TRANSFORMATIONS IN VT15 TITANIUM ALLOY 67-10 M14-79140
THE ORDERING TRANSFORMATION IN TITANIUM-ALUMINUM ALLOYS CONTAINING UP TO 25 AT. PER CENT ALUMINUM 67-11 M14-81343
INFLUENCE OF OXYGEN ON THE KINETICS OF THE BETA-PHASE DECOMPOSITION OF THE TITANIUM ALLOY VT15 67-12 M14-82162
A COMPARISON OF PHASE TRANSFORMATIONS IN THREE COMMERCIAL TITANIUM ALLOYS 67-12 M14-83055

TITANIUM BASE ALLOYS, PHASES /STATE OF MATTER/
NATURE OF METALLIC PHASES 67-01 M16-58138
HYDROGEN ABSORBTION AND ELASTO-MECHANICAL PROPERTIES OF PURE TITANIUM AND TITANIUM ALLOYS 67-02 M14-59089
EFFECT OF ALUMINIUM ON THE STABILITY OF THE BETA-PHASE IN TI-MO-MN ALLOYS 67-02 M14-60291
COMBINED INFLUENCE OF PLASTIC DEFORMATION AND AGING ON STRUCTURE AND PROPERTIES OF TS6 TITANIUM ALLOY 67-04 M17-66487
STUDY OF THE STRUCTURE OF SOME TITANIUM ALLOYS IN AN ELECTRON MICROSCOPE USING THIN FOILS 67-09 M13-77770
LAWS FOR THE HIGH-TEMPERATURE STRENGTH OF TITANIUM ALLOYS., DIAGRAMS SHOWING VARIATION OF HIGH-TEMPERATURE STRENGTH WITH COMPOSITION 67-12 M13-83369

TITANIUM BASE ALLOYS, PHYSICAL PROPERTIES
PHYSICAL PROPERTIES OF QUENCHED BINARY TITANIUM ALLOYS 67-01 M15-58128
PROPERTIES OF TITANIUM-MOLYBDENUM ALLOY WIRE AS A SOURCE OF TITANIUM FOR SUBLIMATION PUMPS

67-08 M15-74785
ZR HF TI NEWSLETTER 67-09 M01-78164
PHYSICAL AND MECHANICAL PROPERTIES OF TI-NB-MO ALLOYS 67-12 M15-82161

TITANIUM BASE ALLOYS, POWDER METALLURGY
NONFERROUS METALS AND ALLOYS PRODUCED BY POWDER METALLURGY 67-01 M09-58374

TITANIUM BASE ALLOYS, PRESSURE VESSELS
DEFORMABLE ALLOY ZR-TI-O-FE FOR HIGH-PRESSURE VESSELS 67-02 M09-61631

TITANIUM BASE ALLOYS, PUNCHING
A NEW DEVICE FOR PIERCING LARGE UPSET FORGINGS ON STEAM-HYDRAULIC PRESSES 67-01 M07-57249

TITANIUM BASE ALLOYS, REACTIONS /CHEMICAL/
ALUMINOTHERMAL REDUCTION OF TITANIUM OXIDES 67-02 M03-61721
MAGNESIUM THERMAL METHOD OF OBTAINING TITANIUM-ALUMINUM ALLOYS 67-06 M03-70947
EXPLOSIVE PRESSURE OF NICKEL ALLOY AEROSOLS 67-11 M15-81644

TITANIUM BASE ALLOYS, RECOVERING
HYDRATION OF TITANIUM ALLOY SCRAP 67-06 M03-71310

TITANIUM BASE ALLOYS, REFINING
ELECTROLYTIC REFINING OF INDUSTRIAL WASTES OF TITANIUM ALLOYS 67-02 M03-61614
CHARACTERISTICS OF PRODUCTS OF ELECTROLYTIC REFINEMENT OF SOME TITANIUM WASTES 67-02 M03-62055
EFFECT OF CERTAIN TECHNOLOGICAL FACTORS ON THE ELECTROREFINING OF TITANIUM AND TITANIUM ALLOY SCRAP 67-08 M03-75874
THE ELECTROLYTIC REFINEMENT OF TITANIUM ALLOYS 67-09 M03-77276

TITANIUM BASE ALLOYS, ROLLING
ROLLING ROUND SHAPES IN TITANIUM ALLOYS 67-02 M07-61285

TITANIUM BASE ALLOYS, SEMICONDUCTORS
EFFECT OF MARTENSITIC TRANSFORMATION ON THE ELECTRICAL AND MAGNETIC PROPERTIES OF NITI 67-12 M15-82748

TITANIUM BASE ALLOYS, SOLUBILITY
SOLUBILITY OF HYDROGEN IN TITANIUM 67-12 M14-82164

TITANIUM BASE ALLOYS, SPECTRUM ANALYSIS
X-RAY SPECTRAL ANALYSIS OF THE ENERGY SPECTRA OF TI-FE ALLOYS 67-08 M13-74629

TITANIUM BASE ALLOYS, SUPERCONDUCTIVITY
NIOBIUM-TITANIUM ALLOY SOLENOID 67-02 M15-60891
SUPERCONDUCTING TRANSITION TEMPERATURE OF SOLID-SOLUTION TA-TI ALLOYS 67-03 M16-65878
THE ALPHA-TI-FE SOLID SOLUTION AND ITS SUPERCONDUCTING PROPERTIES 67-05 M14-68214
SIZE EFFECT AND CRITICAL TRANSPORT CURRENT IN TITANIUM --22 AT. PER CENT NIOBIUM-- 67-07 M16-72628
MICROWAVE FLUX-FLOW DISSIPATION IN PARAMAGNETICALLY-LIMITED TI-V ALLOYS 67-08 M16-75829

TITANIUM BASE ALLOYS, THERMAL PROPERTIES
THERMOCYCLIC STABILIZING TREATMENT OF SILUMIN AL-ALLOY 67-02 M10-61231
TEMPERATURE DEPENDENCE OF HEAT CAPACITY OF SOME TITANIUM ALLOYS 67-12 M15-83535

TITANIUM BASE ALLOYS, THIN FILMS,
THE PREPARATION OF THIN FOILS OF TITANIUM ALLOYS 67-06 M13-69950

TITANIUM BASE ALLOYS, TRANSPORT PROPERTIES
HALL COEFFICIENT BEHAVIOR IN TIFE, TICO, TINI, AND THEIR ALLOYS 67-10 M16-79119

TITANIUM BASE ALLOYS, TUBING /METAL/
STUDY OF THE PRODUCTION TECHNOLOGY OF POROUS TITANIUM TUBES 67-02 M09-60575

TITANIUM BASE ALLOYS, WELDED JOINTS
MECHANICAL PROPERTIES OF WELDED JOINTS OF BETA-ALLOYS IN TI-AL-MO-V-CR SYSTEM 67-06 M10-71311

TITANIUM BASE ALLOYS, WELDING
THE EFFECT OF HYDROGEN ON PORE FORMATION IN ARGON ARC WELDING OF TITANIUM 67-01 M11-57524
ARGON ARC WELDING TI-AL-MN AND TI-AL-CR-FE ALPHA PLUS BETA ALLOYS 67-01 M11-58160
PHASE TRANSFORMATION IN WELDED JOINTS OF VT15 ALLOY 67-01 M11-58204
STUDY OF DIFFUSION IN NONSTATIONARY HEATING DURING DIFFUSION WELDING 67-01 M11-58267
WELDING OT4-2 TITANIUM ALLOY 67-01 M11-58282
WELD-QUALITY MONITOR FOR RESISTANCE WELDING 67-01 M11-58351
PLASMA ARC WELDING OF TITANIUM 67-01 M11-58772
STABILITY OF PULSED-ARC WELDING WITH CONSUMABLE ELECTRODE 67-02 M11-59515
NEW GUNS FOR ARGON ARC WELDING OF TITANIUM PARTS 67-02 M11-60135
THE FUSION WELDING OF BETA-TITANIUM ALLOYS 67-02 M11-61069
INFLUENCE OF HYDROGEN ON PORE FORMATION DURING THE ARGON ARC WELDING OF TITANIUM 67-02 M11-61143
NONHYGROSCOPIC FLUX FOR WELDING TITANIUM AND ITS ALLOYS 67-02 M11-61254
PULSE ARC WELDING OF AT3 TITANIUM ALLOY 67-02 M11-61255
STRENGTH AND PLASTICITY OF JOINTS IN AUTOMATIC ARC WELDING OF VT14 AND VT6S TITANIUM ALLOYS 67-02 M11-61267
NARROW WELDED JOINTS 67-02 M11-61539
AN ANALYTICAL AND EXPERIMENTAL STUDY OF DIFFUSION BONDING 67-02 M11-61580
SOME CAUSES FOR DECREASE IN PLASTICITY OF VT15 TI ALLOY WELDED JOINTS AFTER QUENCHING 67-02 M11-62162
ELECTRON BEAM WELDING OF VT15 TITANIUM ALLOY 67-03 M11-65053
WELDING AN EXPERIMENTAL VACUUM APPARATUS MADE OF AT3 TITANIUM ALLOY 67-03 M11-65061
RESEARCH TEAM LEANS ON COMPUTER TO CONTROL WELD VARIABLES 67-03 M11-65618
CONSISTENCY OF PULSED ARC WELDING WITH A CONSUMABLE ELECTRODE 67-04 M11-66464
THE PULSED ARC WELDING OF AT3 TITANIUM ALLOY 67-04 M11-66527
A NON-HYGROSCOPIC FLUX FOR WELDING TITANIUM AND ITS ALLOYS 67-04 M11-66528
SOME FEATURES OF WELDING TITANIUM WITH NONCONSUMABLE ELECTRODE USING FLUX 67-04 M11-66803
PROGRAMMING FOR PULSED ARC WELDING OF TUBES 67-04 M11-67006
CHARACTERISTIC REDISTRIBUTION OF SOLUTE IN FUSION WELDING 67-04 M11-67036
CAUSES OF REDUCTION IN DUCTILITY OF WELDED JOINTS IN VT15 ALLOY AFTER QUENCHING 67-04 M11-67169
DIFFUSION TAKING PLACE DURING THE NON-STEADY HEATING IN DIFFUSION WELDING 67-04 M11-67348
WELDING OT4-2 TITANIUM ALLOY 67-04 M11-67363
TORCHES FOR THE TIG WELDING OF TITANIUM PRODUCTS 67-04 M11-67675
THE STRENGTH AND DUCTILITY OF AUTOMATIC ARGON ARC WELDED JOINTS IN TITANIUM ALLOYS VT14 AND VT6S 67-05 M11-68267
ELECTROSLAG WELDING OF TITANIUM WITH A CONSUMABLE TIP 67-05 M11-69414
SPOT ARC WELDING AND SPOT RESISTANCE WELDING OF THERMALLY STRENGTHENED VT14 TITANIUM ALLOY 67-06 M11-70020
FLUX FOR WELDING LIGHT METALS AND THEIR ALLOYS 67-06 M11-70151
FLUX FOR WELDING LIGHT ALLOYS FOR INSTANCE, TITANIUM AND ITS ALLOYS 67-06 M11-70153
IMPROVING THE EFFICIENCY OF A TITANIUM WELDED JOINT 67-06 M11-70389
EFFECT OF WELDING CONDITIONS AND HEAT TREATMENT ON THE BRITTLENESS OF VT15 TITANIUM ALLOY WELDED JOINTS 67-06 M11-70390
CALCULATION OF THE WEIGHT OF WELDING POOL DURING FUSION WELDING 67-06 M11-71841
WELDABILITY OF TITANIUM ALLOY SHEETS 6AL-6V-2SN AND 8AL-1MO-1V 67-06 M17-70138
ARGON SHIELDED PULSE WELDING OF TITANIUM ALLOYS OF SMALL THICKNESS 67-07 M11-72739
TITANIUM 67-07 M11-73305
ELECTRON BEAM WELDING OF VT15 TITANIUM ALLOY 67-07 M11-73972
WELDING AN EXPERIMENTAL VACUUM APPARATUS IN AT3 TITANIUM ALLOY 67-07 M11-73981
THE PULSED INERT GAS METAL-ACR WELDING 1 IN. THICK TITANIUM 721 ALLOY 67-07 M11-74281
INCREASING THE FATIGUE LIFE OF SPOT-WELDS IN ALUMINUM AND TITANIUM ALLOYS 67-07 M17-72785
PROGRAMMING THE CONDITIONS FOR PULSATING ARC WELDS ON PIPES 67-08 M11-74765
DIFFUSION WELDING TITANIUM ALLOYS WITH COPPER ALLOYS 67-08 M11-75419
WELDING TITANIUM WITH A NONCONSUMABLE ELECTRODE USING FLUXES 67-08 M11-75907

WELDING OF ALPHA-BETA TITANIUM ALLOYS IN ONE INCH PLATE 67-08 M11-76069
AN IMPROVEMENT TO WELDED JOINTS IN TITANIUM 67-09 M11-78089
EFFECT OF WELDING CONDITIONS AND HEAT TREATMENT ON THE BRITTLENESS OF WELDED JOINTS IN VT15 TITANIUM ALLOY 67-09 M11-78090
THE ELECTROSLAG WELDING OF TITANIUM WITH A CONSUMABLE GUIDE 67-10 M11-78518
DISTORTION-FREE WELDS IN TITANIUM 67-10 M11-80033
SMALL TUBE UNCONFINED AREA RESISTANCE CLOSURE WELDING 67-11 M11-80409
HEAT GENERATION AND RESIDUAL STRESS DEVELOPMENT IN RESISTANCE SPOT WELDING 67-11 M11-80413
EFFECT OF GAS IMPURITIES ON THE MECHANICAL PROPERTIES OF VT6S ALLOY WELDED JOINTS 67-11 M11-80557
CALCULATING THE DIMENSIONS AND WEIGHT OF THE WELD POOL DURING WELDING WITH FULL THICKNESS PENETRATION 67-11 M11-80873
EFFECT OF WELDING WITH CONSUMABLE ELECTRODE IN INERT GASES ON DIMENSION OF WELDS 67-12 M11-81910
THE DIFFUSION WELDING OF TITANIUM ALLOYS TO COPPER ALLOYS 67-12 M11-82040
PULSED ARGON ARC WELDING OF THIN TITANIUM ALLOYS 67-12 M11-82318
EFFECT OF ANNEALING TEMPERATURE ON AMOUNT OF RESIDUAL STRESSES AND PROPERTIES OF OT4 TI-ALLOY WELDED JOINTS 67-12 M11-83192

TITANIUM CARBIDE
TITANIUM CARBIDE DISPERSION-STRENGTHENED NICKEL BY INTERNAL CARBURIZATION 67-06 M17-71076

TITANIUM CARBIDE, ATOMIC STRUCTURE
BAND STRUCTURE AND BONDING IN TITANIUM CARBIDE METALS. AMERICAN SOCIETY FOR METALS, METALS PARK, 67-10 M16-78306

TITANIUM CARBIDE, CERMETS
A CERAMIC ALLOY FOR ELEVATED TEMPERATURE DUTY 67-04 M17-66850
THE USE OF MOLYBDENUM IN TIC-BASE CERMETS 67-06 M01-70003

TITANIUM CARBIDE, COATINGS
TITANIUM-CARBIDE COATINGS ON STEEL 67-04 M12-67965
STUDIES ON CARBIDES OF TITANIUM GROUP. PT. 1. FORMATION OF TITANIUM CARBIDE FILM 67-11 M12-80505

TITANIUM CARBIDE, CORROSION
APPLICATION OF REFRACTORY COMPOUNDS IN PRODUCTION OF CHLORINE AND CAUSTIC 67-10 M18-79342

TITANIUM CARBIDE, CRYSTAL LATTICES
FIELD-ION MICROSCOPY OF TITANIUM CARBIDE 67-12 M13-82552

TITANIUM CARBIDE, MECHANICAL PROPERTIES
THE DEVELOPMENT AND EVALUATION OF HYPEREUTECTIC CARBIDES 67-02 M05-60712
TIC.. A NEW ERA IN CUTTING TOOLS 67-03 M17-65011
AN EVALUATION OF NEW TITANIUM GRADE CARBIDE TOOL MATERIALS 67-06 M08-71483
BRIDGING THE GAP WITH THE NEW TITANIUM GRADE CARBIDES 67-06 M17-71587
RELATIONSHIP BETWEEN STRUCTURE, CREEP BEHAVIOR, AND HARDNESS OF ALLOYS IN THE WC-TIC-CO SYSTEM 67-07 M17-72679
TITANIUM CARBIDE OPENS NEW ERA IN CUTTING TOOLS 67-12 M17-82648

TITANIUM CARBIDE, MICROSTRUCTURE
THE MICROSTRUCTURE OF SINGLE-CRYSTAL TITANIUM CARBIDE 67-10 M13-78666

TITANIUM CARBIDE, OXIDATION
EFFECT OF TEMPERATURE AND OXYGEN PARTIAL PRESSURE PRESSURE ON THE OXIDATION OF TITANIUM CARBIDE 67-08 M18-76092

TITANIUM CARBIDE, PHASE TRANSFORMATIONS
EFFECTS OF THE CARBON CONTENT ON THE PROPERTIES OF WC-TIC-CO ALLOYS 67-03 M14-65846

TITANIUM CARBIDE, PHYSICAL PROPERTIES
PHYSICAL PROPERTIES AND METALLOGRAPHY OF TITANIUM CARBIDE/STEEL INFILTRATION ALLOYS 67-05 M09-69061

TITANIUM CARBIDE, POWDER METALLURGY
TITANIUM CARBIDE FORMATION 67-10 M09-79980
INVESTIGATION OF SINTERING OF LOOSE POWDERS OF TIC AND ZRC 67-12 M09-83552

TITANIUM CARBIDE, SINGLE CRYSTALS
FLOATING-ZONE REFINING BY ELECTRON BOMBARDMENT 67-01 M14-57982

TITANIUM CARBIDE, SYNTHESIS
MECHANISM OF TIC SYNTHESIS IN THE PRESENCE OF HYDROCARBONS 67-09 M14-76882

TITANIUM CARBIDE, WELDING
ELECTRON MECHANISM OF DIFFUSION WELDING 67-04 M11-66432
THE ELECTRON THEORY OF DIFFUSION WELDING 67-07 M11-72691

TITANIUM COMPOUNDS
SEE ALSO TITANIUM CARBIDE
TITANIUM DIOXIDE

TITANIUM COMPOUNDS, ATOMIC PROPERTIES
THE COHESIVE ENERGY OF TIO2 --RUTILE-- 67-11 M16-81681
K- AND L-SPECTRA OF METAL-LIKE TITANIUM COMPOUNDS 67-12 M16-82329

TITANIUM COMPOUNDS, BAND THEORY
X-RAY SPECTRA, ELECTRON STRUCTURE AND PROPERTIES OF TITANIUM METALLIC COMPOUNDS 67-04 M16-67372

TITANIUM COMPOUNDS, BINARY SYSTEMS
PREPARATION OF OXIDE SINGLE CRYSTALS BY FLAME FUSION METHOD 67-04 M14-67579

TITANIUM COMPOUNDS, CHLORINATION
CONSTRUCTING A MATHEMATICAL MODEL OF THE PROCESS OF CHLORINATING TITANIUM SLAGS IN A MELT 67-03 M02-65594
CHLORINATING TIO2 IN THE PRESENCE OF CO IN A NACL MELT 67-03 M03-65581
REACTION KINETICS OF TITANIUM AND NIOBIUM OXIDES IN A FUSED SYSTEM WITH SODIUM CHLOROALUMINATE 67-06 M02-71880

TITANIUM COMPOUNDS, COATINGS
INVESTIGATION OF REDUCTION OF TICL4 BY HYDROGEN ON GRAPHITE SUBSTRATE 67-10 M12-79134

TITANIUM COMPOUNDS, CORROSION
SEALING CORROSIVE MATERIALS WITH HARD CARBON ALLOYS 67-08 M18-76197

TITANIUM COMPOUNDS, CRYSTAL LATTICES
EFFECT OF NEUTRON IRRADIATION ON THE PROPERTIES OF TITANIUM AND CHROMIUM CARBIDES 67-02 M09-59609
STUDY OF THE HARDNESS OF TITANIUM-OXYGEN ALLOYS 67-02 M14-62252
BONDING, LATTICE PARAMETER, DENSITY AND DEFECT STRUCTURE OF TIN CONTAINING AN EXCESS OF N 67-04 M13-66537
STUDIES OF THE DEFECT STRUCTURE OF NONSTOICHIOMETRIC RUTILE, TIO2-X 67-05 M13-68624
PREPARATION AND STRUCTURAL DATA OF --TI1-XVX--O2 67-05 M13-69297
THE OBSERVATION OF INTERSTICE LATTICE STACKING FAULTS IN ALPHA-TI-O ALLOYS 67-06 M13-71964
POINT DEFECTS IN BINARY COMPOUNDS 67-07 M13-74099
THE CRYSTAL STRUCTURE OF TI3SIC2--A NEW COMPLEX CARBIDE 67-09 M13-77515

TITANIUM COMPOUNDS, DIFFUSION
DIFFUSION OF CARBON IN VANADIUM CARBIDES AND TITANIUM CARBIDES 67-08 M14-74314
EFFECT OF MGO AND MGTIO3 DOPING ON DIFFUSION-CONTROLLED CREEP OF POLYCRYSTALLINE ALUMINUM OXIDE 67-08 M17-76095

TITANIUM COMPOUNDS, ELECTRICAL PROPERTIES
THE TEMPERATURE DEPENDENCE OF THE THERMO-EMF AND OF THE ELECTRICAL RESISTIVITY OF TITANIUM, VANADIUM, CHROMIUM AND THEIR BORIDES, CARBIDES AND NITRIDES 67-01 M15-58348
ELECTRICAL AND MAGNETIC PROPERTIES OF SOLID SOLUTIONS OF VANADIUM AND TITANIUM DISILICIDES IN CHROMIUM DISILICIDE 67-09 M15-76916

TITANIUM COMPOUNDS, EXTRACTION
ON THE RATE OF CHLORINATING TITANIUM-BEARING BRIQUETTES 67-02 M02-61615
CHARGE BALANCE AND HEAT BALANCE OF THE FURNACE FOR MELTING TITANIUM SLAGS 67-08 M03-76243

TITANIUM COMPOUNDS, MAGNETIC PROPERTIES
MAGNETIC-SUSCEPTIBILITY STUDIES ON THE MAGNELI PHASES OF THE TITANIUM-OXYGEN SYSTEM 67-07 M15-73601
THE ELECTRON PARAMAGNETIC RESONANCE IN REDUCED BATIO3 CRYSTALS 67-11 M15-80319

TITANIUM COMPOUNDS, MECHANICAL PROPERTIES
LOW-TEMPERATURE ELASTIC PROPERTIES OF ZRC AND TIC 67-01 M17-57116
PLASTIC DEFORMATION OF REFRACTORY COMPOUNDS 67-02 M09-60184
DENSIFICATION AND WEAR RESISTANCE OF CERAMIC

TITANIUM COMPOUNDS

SYSTEMS. PT. 1. TITANIUM DIBORIDE 67-09 M15-77963
PLASTIC STRAIN OF HIGH-MELTING POINT COMPOUNDS 67-09 M17-76917

TITANIUM COMPOUNDS, PHASES /STATE OF MATTER/
PHASE CHEMICAL ANALYSIS OF ALLOYS OF THE ZRO2-ZRC AND ZRO2-TIC SYSTEM 67-06 M14-69995
STRUCTURAL STUDY OF A NEW TITANIUM SELENIDE--TI9SE4 67-09 M13-77682
DETERMINING THE TITANIUM COMPOUNDS IN TRANSFORMER STEEL 67-10 M14-78956

TITANIUM COMPOUNDS, PHYSICAL PROPERTIES
X-RAY KAPPA ABSORPTION SPECTRA OF TITANIUM, VANADIUM AND GERMANIUM IN GERMANIDES 67-02 M15-62184
PREPARATION OF TITANIUM DISILICIDE SINGLE CRYSTALS 67-04 M14-66343
SOME PROPERTIES OF PYROLYTIC CARBIDES AND NITRIDES OF GROUP 4 METALS 67-06 M15-71471
DISCREPANCIES IN THE THERMODYNAMICS OF THE TITANIUM-OXYGEN SYSTEM 67-11 M15-80192
SOME PROPERTIES OF PYROLYTIC CARBIDES AND NITRIDES OF GROUP 4 METALS 67-12 M15-82792

TITANIUM COMPOUNDS, POWDER METALLURGY
ON THE SINTERING OF SINGLE CRYSTAL RUTILE 67-02 M09-61822
THE PREPARATION OF LOW-POROSITY SPECIMENS OF TITANIUM AND ZIRCONIUM HYDRIDES BY THE METHOD OF REACTIVE SINTERING 67-02 M09-62105
THE PREPARATION AND INVESTIGATION OF SOME TITANIUM NITRIDE-MOLYBDENUM CERMETS 67-02 M09-62106

TITANIUM COMPOUNDS, RADIATION EFFECTS
RADIATION EFFECTS IN TITANIUM CARBIDES AND CHROMIUM CARBIDES 67-02 M01-60975
EFFECT OF NEUTRON IRRADIATION ON THE PROPERTIES OF TITANIUM AND CHROMIUM CARBIDES 67-09 M16-76927

TITANIUM COMPOUNDS, REACTIONS /CHEMICAL/
ON PREPARING SILICIDES BY REDUCTION OF MIXTURES OF TITANIUM AND SILICON TETRACHLORIDES WITH HYDROGEN 67-02 M03-59880
REDUCING TITANIUM TETRACHLORIDE TO LOWER CHLORIDES BY SODIUM 67-02 M03-60542
CHLORINATING NBOCL3 AND TIO2 ON A CARBON SETTING 67-02 M03-61722
INVESTIGATION OF INITIAL STAGES OF INTERACTION OF OXIDES OF CERTAIN METALS WITH CARBON 67-02 M14-60543
CONTACT INTERACTION OF TIN WITH TI, ZR AND V IN VACUUM 67-02 M14-62243
STUDY OF HIGH-TEMPERATURE INTERACTION IN THE TIC-ZRO2 SYSTEM 67-03 M15-65912
THE NATURE OF THE INTERACTION OF ZIRCONIUM DIOXIDE WITH TITANIUM, NIOBIUM AND CHROMIUM CARBIDES 67-06 M14-71101
STABILITY OF THE HYDRIDES OF CERTAIN TRANSITION METALS WHEN HEATED IN VACUUM 67-06 M15-70160

TITANIUM COMPOUNDS, REDUCTION /CHEMICAL/
PRODUCTION OF A MASTER ALLOY FROM AN ALUMINUM-TITANIUM ALLOY BY REDUCTION OF TITANIUM TETRACHLORIDE -- WITH ALUMINUM-- 67-04 M03-67133

TITANIUM COMPOUNDS, REFINING
SEPARATION OF VANADIUM OXYCHLORIDE FROM TITANIUM TETRACHLORIDE AND OTHER IMPURITIES BY DISTILLATION 67-12 M02-82111

TITANIUM COMPOUNDS, SINTERING
INVESTIGATION OF SINTERING AND PROPERTIES OF SOLID SOLUTIONS OF TIC AND ZRC CARBIDES WITH NBC 67-08 M09-74306

TITANIUM COMPOUNDS, SOLUBILITY
STRUCTURAL CHARACTERISTICS OF SOLID SOLUTIONS CRSI2-VSI2 AND CRSI2-TISI2 67-04 M13-66264
STRUCTURAL CHARACTERISTICS OF SOLID SOLUTIONS OF CHROMIUM DISILICIDE WITH VANADIUM AND TITANIUM DISILICIDES 67-10 M13-78996

TITANIUM COMPOUNDS, TERNARY SYSTEMS
PHASE EQUILIBRIUM IN THE SYSTEM PBO-TIO2-ZRO2 67-07 M14-72825

TITANIUM COMPOUNDS, THERMAL PROPERTIES
A USEFUL RELATIONSHIP BETWEEN ATOMIC VIBRATION AMPLITUDES AND THERMAL EXPANSION FOR CUBIC SOLIDS 67-02 M15-59099
HIGH-TEMPERATURE THERMAL EXPANSION OF CERTAIN GROUP 4 AND GROUP 5 DIBORIDES 67-06 M15-71162
MASS SPECTROMETRIC STUDIES AT HIGH TEMPERATURES. PT. 16. SUBLIMATION PRESSURES FOR TIF3 AND THE STABILITIES OF TIF2 --G-- AND TIF --G-- 67-11 M15-80699

TITANIUM COMPOUNDS, THERMODYNAMICS
THERMODYNAMICS OF THE SODIUM-HEAT REDUCTION OF TITANIUM TETRACHLORIDE IN A SODIUM CHLORIDE MELT 67-01 M15-57306
HIGH-TEMPERATURE VAPORIZATION AND THERMODYNAMICS OF TITANIUM OXIDES. PT. 1. VAPORIZATION CHARACTERISTICS OF THE CRYSTALLINE PHASES 67-07 M14-74215
THERMODYNAMIC CALCULATION OF EQUILIBRIA IN THE SYSTEM CARBIDE-OXYGEN 67-08 M15-74310

TITANIUM COMPOUNDS, TRANSPORT PROPERTIES
EFFECT OF CARBON ON THE PHYSICAL PROPERTIES OF TITANIUM CARBIDE IN ITS HOMOGENEITY REGION 67-01 M16-58347
SEMICONDUCTOR-TO METAL TRANSITIONS IN TRANSITION-METAL COMPOUNDS 67-07 M16-73947

TITANIUM DIOXIDE, COATINGS
PROGRESS IN THE PRODUCTION OF THIN OXIDE FILMS FOR OPTICAL AND ELECTRICAL APPLICATIONS 67-08 M12-75178

TITANIUM DIOXIDE, CRYSTAL LATTICES
REMARK ON THE THEORY OF THE ESR SPECTRUM OF THE D1-CONFIGURATION IN RUTILE --TIO2-- 67-08 M16-75244

TITANIUM DIOXIDE, DEPOSITION
GROWTH OF TI AND TIO2 THIN FILMS OBTAINED BY CATHODIC SPUTTERING 67-09 M12-77211

TITANIUM DIOXIDE, ELECTRICAL PROPERTIES
TIME DEPENDENT CONDUCTIVITY IN TITANIUM OXIDE 67-07 M15-73638
VARIATIONS OF THE ELECTRICAL CONDUCTIVITY OF TITANIUM AND NIOBIUM OXIDES WITH THE PARTIAL BALANCING OF O2 PRESSURE AT HIGH TEMPERATURE 67-10 M15-79708
STRUCTURE AND ELECTRICAL PROPERTIES OF THIN OXIDE FILM DIODE WITH SPUTTERED TITANIUM BASE 67-11 M15-80824

TITANIUM DIOXIDE, EXTRACTION
TITANIUM DIOXIDE 67-10 M02-79982

TITANIUM DIOXIDE, MAGNETIC PROPERTIES
MAGNETISM OF THE TITANIUM-OXYGEN SYSTEM 67-05 M15-69300
MAGNETIC-SUSCEPTIBILITY STUDIES ON THE MAGNELI PHASES OF THE TITANIUM-OXYGEN SYSTEM 67-07 M15-73601
MAGNETIC STUDIES OF TI3O5 67-08 M15-75819
ELECTRON PARAMAGNETIC RESONANCE STUDY OF A PARTIALLY REDUCED TITANIUM DIOXIDE 67-11 M13-81559

TITANIUM DIOXIDE, OPTICAL PROPERTIES
ELECTROMODULATION OF THE OPTICAL CONSTANTS OF RUTILE IN THE UV 67-09 M15-77177

TITANIUM DIOXIDE, PHASES /STATE OF MATTER/
ROLE OF TITANIA IN BAUXITE REFRACTORIES 67-07 M04-73622

TITANIUM DIOXIDE, POWDER METALLURGY
COARSENING A TITANIUM POWDER 67-04 M09-67836

TITANIUM DIOXIDE, REACTIONS /CHEMICAL/
THE REDUCTION OF TITANIUM DIOXIDE AND MIXTURES WITH FERRIOXIDES AND METALLIC IRON IN THE SOLID STATE WITH H2 67-02 M03-60600
ALUMINOTHERMAL REDUCTION OF TITANIUM OXIDES 67-04 M03-66819
EFFECT OF THE COMPOSITION OF MCl MELTS ON THE CHLORINATION OF TIO2 IN THE PRESENCE OF CO 67-08 M02-75149

TITANIUM DIOXIDE, SINTERING
ON THE EFFECT OF TIO2 ADDITIONS ON SINTERING OF UO2 67-03 M14-65857

TITANIUM DIOXIDE, SOLUBILITY
SOLID SOLUTION OF TITANIUM DIOXIDE IN ALUMINUM OXIDE 67-04 M14-67323

TITANIUM DIOXIDE, SYNTHESIS
A NEW TECHNOLOGICAL PROCESS FOR OBTAINING HIGH-QUALITY TIO2 67-05 M03-68927

TITANIUM DIOXIDE, TRANSPORT PROPERTIES
HALL EFFECT AND THERMOELECTRIC POWER IN SEMICONDUCTIVE TIO2 67-07 M16-73320

TITANIUM ORES
SEE ALSO ILMENITE
RUTILE

TITANIUM ORES, BENEFICIATION
GRANULATION OF YAGERSK TITANIUM CONCENTRATES 67-04 M02-66822
METHOD OF PREPARING NATURALLY OIL-SATURATED TITANIUM-BEARING SANDS FOR FLOTATION 67-06 M02-70733
PYROGALLOL AS A REGULATOR IN NON-SULFIDE MINERAL FLOTATION 67-08 M02-75169

CONCENTRATING CAPACITY OF TITANIUM-MAGNESITE ORES FROM THE VELIKOVETS DEPOSITS 67-09 M02-76719
SEPARATING A BULK TITANIUM-ZIRCONIUM CONCENTRATE BY FLOTATION 67-09 M02-76863
REACTION PATTERNS BETWEEN SODIUM FLUORIDE AND OLEIC ACID IN THE SEPARATION OF TITANIUM AND ZIRCONIUM MINERALS BY FLOTATION 67-09 M02-76874
RESULTS OF THE INDUSTRIAL TESTING OF WASTE ACIDS FOR FLOTATION OF TITANIUM-ZIRCONIUM SANDS 67-10 M02-79032
THE ADSORPTION OF DEHYDROABIETYLAMINE ACETATE ON SYNTHETIC RUTILE 67-10 M02-79950
AUTOCLAVE RECOVERY OF PEROVSKITE CONCENTRATES 67-11 M02-81227
FLOTABILITY STUDY OF RUTILE-GARNET ORES FROM THE SHUBINSK DEPOSIT 67-12 M02-82490
CHEMICAL BENEFICIATION OF QUILON ILMENITE BY HIGH TEMPERATURE HYDROCHLORIC ACID LEACHING 67-12 M02-83127

TITANIUM ORES, CRYSTAL LATTICES
DETERMINATION OF THE DISPLACEMENT VECTOR AT THE ANTI-PHASE BOUNDARIES IN RUTILE BY CONTRAST EXPERIMENTS IN THE ELECTRON MICROSCOPE 67-01 M13-57568

TITANIUM ORES, QUALITY CONTROL
X-RAY DETERMINATION OF TITANIUM USING FE55 RADIOISOTOPE 67-07 M02-72864

TITANIUM ORES, REACTIONS /CHEMICAL/
USE OF AN ANALOG COMPUTER TO DEVELOP A SYSTEM FOR CONTROLLING THE CHLORINATION OF TI SLAGS IN MELT 67-05 M03-68980

TITANIUM ORES, REFINING
IMPROVING THE BENEFICIATION OF PEROVSKITE ORES 67-05 M02-68955
REDUCTION KINETICS IN TITANIFEROUS SLAGS 67-10 M04-79948

TITANIUM ORES, X RAY ANALYSIS
DETERMINATION OF TITANIUM BY AN X-RAY RADIOMETRIC METHOD USING THE RADIOACTIVE ISOTOPE FE55 67-12 M02-82172

TITANIUM STEELS, GRAIN GROWTH
EFFECTS OF TITANIUM ON THE AUSTENITIC STRUCTURE OF RAIL STEEL 67-10 M14-78941

TITANIUM STEELS, HEAT TREATMENT
NITRIDABLE TITANIUM STEELS AND THEIR APPLICATION IN THE PRODUCTION OF MILL PRODUCTS 67-07 M10-74212

TITANIUM STEELS, MELTING
EFFECT OF CHEMICAL COMPOSITION OF THE METAL AND THE SMELTING AND TEEMING TECHNOLOGY ON THE QUALITY OF TITANIUM STRUCTURAL STEELS 67-12 M04-83468

TITANIUM STEELS, WEAR
THE SERVICE LIFE OF RAILS INOCULATED WITH TITANIUM 67-10 M17-78940

TITANIUM STEELS, WELDING
BINDING MECHANISM IN EXPLOSION WELDING 67-07 M11-73715

TITRATION
SEE VOLUMETRIC ANALYSIS

TOLERANCES
SEE ALSO DIMENSIONAL TOLERANCES
FORGING INDUSTRY STANDARDS. A BUYER SERVICE 67-12 M07-82701

TOOL FORCES
THE MEASUREMENT OF FORCE FOR THE DETERMINATION OF OPTIMUM CONDITIONS IN DEEP DRAWING 67-03 M08-65758
ON THE CUT-OFF TURNING TEST OF AL BAR 67-06 M08-71216
INVESTIGATIONS ON THE CUTTING POWER AND SURFACE QUALITY IN THE INTERNAL BROACHING OF STEEL 67-06 M08-71804
PURPOSES AND ATTRIBUTES OF METALWORKING LUBRICANTS 67-07 M08-73692
THE STATE OF STRESSES IN THE CUTTING ZONE 67-08 M17-75567
TOOL WEAR AND HEIGHT OF BURR IN CUTTING SHEET 67-10 M08-78700
THE DEPENDENCE OF TOOL WEAR ON CUTTING CONDITIONS CHIP-FORMING MACHINING 67-11 M08-81530

TOOL LIFE
CUTTING FLUID APPLICATIONS--HOW IT CAN IMPROVE YOUR MACHINING DOLLAR 67-01 M08-58550
STUDY ON THE MACHINABILITY OF COLD FINISHED STEEL BARS 67-01 M08-58556
HOW RELIABLE IS MACHINABILITY DATA 67-03 M08-65566
DRILL LIFE.. A MEANINGFUL TEST 67-03 M08-65617
CERAMIC CUTTING TOOLS--THEIR CAPABILITIES AND LIMITATIONS 67-03 M20-65688
BRASS MACHINABILITY--THE STORY BEHIND BLUE DOT 67-04 M08-68101
IMPROVING THE DUCTILITY OF HIGH-SPEED STEELS WITH 9 PER CENT TUNGSTEN BY ADDING ALLOYING ELEMENTS 67-04 M17-67449
LOW COST STEEL COVERS SPECTRUM OF TOOL STEEL APPLICATIONS 67-05 M17-68775
CARBIDES FOR SCREW MACHINES. TESTS ON FREE-CUTTING STEELS. PT. 1 67-05 M18-69797
FREE-MACHINING STAINLESS STEELS UP SCREW MACHINE PRODUCTIVITY 67-06 M08-70237
MACHINING OPERATIONS FACILITATED WITH ROCOL SOLUBLE OIL 67-06 M08-70708
DIAMOND TOOLS IMPROVE HONING 67-06 M08-70844
CUTTING FLUID ADDITIVES TAME TITANIUM 67-06 M08-71206
AN EVALUATION OF NEW TITANIUM GRADE CARBIDE TOOL MATERIALS 67-06 M08-71483
BRIDGING THE GAP WITH THE NEW TITANIUM GRADE CARBIDES 67-06 M17-71587
DEVELOPMENTS IN CUTTING-TOOL MATERIALS 67-06 M20-70654
COMPARATIVE INVESTIGATIONS INTO THE MACHINABILITY OF GRAPHITE-CONTAINING CAST IRON-BASE MATERIALS 67-07 M08-73247
HIGH SPEED, HIGH PRESSURE GRINDING HIKES OUTPUT, WHEEL LIFE 67-07 M08-73798
LUBRICATING WITH MOLYBDENUM DISULFIDE 67-07 M08-74289
WEAR AND LIFE OF TOOL FOR ROLLING INTERNAL THREADS 67-07 M08-74291
SIMPLE DIAL-IN CHUCKING MACHINE COMBINES VERSATILITY AND SPEED 67-07 M08-74294
NITRIDABLE TITANIUM STEELS AND THEIR APPLICATION IN THE PRODUCTION OF MILL PRODUCTS 67-07 M10-74212
THE CONTRIBUTION OF PLASMA SPRAYING TECHNIQUES TO THE PROTECTION AGAINST WEAR OF TOOLS 67-07 M12-74160
SOME ADVANCED MILLING HEAD DESIGNS AND THEIR PERFORMANCE 67-08 M08-74758
THEORY OF TOOL LIFE FOR THE GRINDING WHEEL 67-08 M08-75568
A MEASUREMENT OF THE MACHINABILITY OF FREE-MACHINING STEELS THROUGH THE USE OF RADIOACTIVE CUTTING TOOLS 67-08 M08-75643
WEAR OF THE CUTTERS DURING MACHINING OF POROUS MATERIALS 67-08 M09-74316
TOOL WEAR IN STEEL CUTTING 67-08 M17-74522
WEAR AND OXIDATION PHENOMENA ON THE END CUTTING EDGE OF CARBIDE TURNING TOOLS 67-08 M18-75574
DRILLING CAST HEAT RESISTANT STEELS WITH HIGH-SPEED COBALT AND MOLYBDENUM STEEL DRILLS 67-09 M08-76444
METALWORKINGS GUIDE TO CARBIDE AND HIGH-SPEED-STEEL CUTTING TOOLS 67-09 M08-76744
IMPROVING THE EDGE LIFE OF CUTTING TOOLS BY SPARK MACHINING 67-09 M08-77155
DEVELOPMENTS IN DIE PUNCHING TECHNOLOGY. PT. 3 67-09 M08-77944
RELATIONSHIP BETWEEN CUTTING GEOMETRY, TOOL WEAR AND SURFACE QUALITY IN THE PEELING OF STEEL BARS WITH CARBIDE TOOLS. PT. 2. EFFECT OF VARIABLE PROCESSING CONDITIONS ON TOOL WEAR 67-09 M08-78281
RELATIONSHIP BETWEEN CUTTING GEOMETRY, TOOL WEAR AND SURFACE QUALITY IN THE PEELING OF STEEL BARS WITH CARBIDE TOOLS. PT. 3. EFFECT OF PEELING AND STRAIGHTENING CONDITIONS ON THE SURFACE OF BRIGHT BARS.. RELATIONSHIP BETWEEN TOOL WEAR AND SURFACE QUALITY 67-09 M08-78282
RELATIONSHIP BETWEEN CUTTING GEOMETRY, TOOL WEAR AND SURFACE QUALITY IN THE PEELING OF STEEL BARS WITH CARBIDE TOOLS. PT. 4. DETERMINATION OF THE MOST FAVORABLE GEOMETRY OF THE CUTTING EDGE OF HARD METAL PEELING TOOLS AND EFFECT OF THE PEELING TOOL WEAR ON THE SURFACE FINISH OF BRIGHT STEEL BARS 67-09 M08-78283
THE WEAR OF CUTTING TOOLS AND POSSIBILITIES OF DIMINUTION 67-09 M17-76370
THE COMPARATIVE WEAR RESISTANCE AND LIFE OF DIAMOND TURNING TOOLS IN MACHINING HARD CARBON 67-09 M17-78285
RESEARCH, DEVELOPMENT AND APPLICATIONS OF MACHINE TOOLS. PT. 4 67-09 M20-76687
TECHNICAL FACTORS IN THE OPERATION OF GRINDING MACHINES 67-10 M08-78897

TOOL LIFE

WEAR AND WEAR DISTRIBUTION IN SPARK EROSION 67-10 M08-79495
DRILL DESIGN AND APPLICATION REQUIREMENTS FOR OPTIMUM COOLANT-FEEDING TWIST DRILL USAGE 67-10 M08-79504
APPLICATION OF CUTTING FLUIDS IN DRILLING 67-10 M08-79505
CARBIDE TOOL SELECTION--A DECISION IN ECONOMICS 67-10 M08-79509
THE ECONOMICS OF COLLECTING AND APPLYING MACHINING DATA TO CARBIDE TOOLS--AN ENGINEERING APPROACH 67-10 M08-79510
MACHINING HIGH STRENGTH STEELS AND THERMAL RESISTANT ALLOYS 67-10 M08-79516
THE INCREASE IN WEAR RESISTANCE OF STAMPING TOOLS THROUGH SURFACE TREATMENT 67-10 M12-79501
CARBIDE GRADE SELECTION 67-10 M17-79508
THE DEPENDENCE OF TOOL WEAR ON CUTTING CONDITIONS CHIP-FORMING MACHINING 67-11 M08-81530
RESULTS OBTAINED WITH STELLITE FOR BLANKING, TRIMMING, AND SHEARING TOOLS 67-11 M08-81692
TECHNOLOGY OF ADVANCED CUTTING TOOL MATERIALS 67-11 M17-80294
ANALYSIS OF TOOL AND DIE FAILURES 67-11 M17-80686
CAST CUTTING DIES IN TOOLMAKING 67-12 M06-83574
FORGING INDUSTRY STANDARDS. A BUYER SERVICE 67-12 M07-82701
CUTTING FORCE DURING MACHINING OF POROUS SINTERED MATERIALS 67-12 M08-82215
ADVANCED MACHINING TECHNOLOGY 67-12 M08-82645
ELECTROCHEMICAL GRINDING OF HARD METALS 67-12 M08-82774
A TECHNIQUE TO OPTIMIZE CONTROL OF PROCESS VARIABLES IN RELATED STUDIES OF CAUSES AND EFFECTS OF METAL CUTTING BEHAVIOUR 67-12 M08-82779
CUTTING TOOL AND CUTTING FLUID EVALUATION. ECONOMIC CONSIDERATIONS FOR AEROSPACE MANUFACTURING 67-12 M08-82888
PRODUCIBILITY ASPECTS OF AEROSPACE PRODUCTS WITH REGARD TO MACHINABILITY 67-12 M08-82889
THE USE OF CUTTING TEMPERATURE AS A MEASURE OF THE MACHINABILITY OF STEELS 67-12 M08-82948
URANIUM MACHINING 67-12 M08-82952
THE EFFECT OF HEAT TREATMENT ON THE PROPERTIES OF THE HIGH-SPEED TOOL STEEL, X 85 W MO CO 6.5.5 67-12 M10-82932
ROUGHNESS OF FINISHED SURFACE IN GRINDING OPERATION OF HARDENED STEEL 67-12 M12-83600
NITRIDING FOR IMPROVING THE STABILITY OF CUTTING TOOLS 67-12 M17-81777
TITANIUM CARBIDE OPENS NEW ERA IN CUTTING TOOLS 67-12 M17-82648
THE MECHANISM OF FLANK WEAR IN CARBIDE TOOLS 67-12 M17-82773
DEVELOPMENT OF ADVANCED CERAMIC CUTTING TOOLS 67-12 M17-82947
RADIOACTIVE TOOL-WEAR TESTING ON FREE-CUTTING BRASS 67-12 M17-83285
LIFE TESTING HOT WORK DIE STEELS 67-12 M19-82702

TOOL LIFE, ALLOYING EFFECTS
EFFECTS OF NI AND CR ON SOME PROPERTIES OF PLAIN CARBON STEEL 67-04 M17-67561
INFLUENCE OF SMALL AMOUNTS OF BORON ON THE PROPERTIES OF HIGH-SPEED STEELS 67-07 M17-73259

TOOL LIFE, LUBRICATION
EVALUATION OF CUTTING FLUIDS FOR TAPPING CAST IRONS 67-07 M08-72995

TOOL STEELS
SEE ALSO CARBON TOOL STEELS
DIE STEELS
HIGH SPEED TOOL STEELS
HOT WORK TOOL STEELS
THERMOLD-Z --ZINC DIE CASTING AND PLASTIC MOLD STEEL, TYPE P20-- 67-02 M01-59493
JESSOP-SAVILLE H.50 --NON-DEFORMING TOOL STEEL-- 67-04 M01-68069
TOOL STEELS 67-05 M20-69184
HOW SHOULD A TOOL STEEL PROBLEM BE PRESENTED TO THE METALLURGIST 67-05 M20-69185
TOOL STEELS FOR COLD WORKING APPLICATIONS 67-05 M20-69186
SPECIAL STEELS FOR TOOLING OF HOT EXTRUSION PRESSES 67-05 M20-69189
HIGH-STRENGTH STEELS 67-06 M01-71183
NEW STEELS FOR AEROSPACE TOOLING 67-06 M20-71553
RESEARCH INTO THE DENSITY OF DEFORMED METALS AND ALLOYS 67-08 M17-75441
THERMOLD 75 --HOT WORK TOOL STEEL-- 67-11 M01-81251

TOOL STEELS, BOLTS
PREVENTING STRESS-CORROSION CRACKING IN THREADED FASTENERS 67-11 M18-81194

TOOL STEELS, CASTING
APPLICATION OF ALTERNATING ELECTROMAGNETIC FIELDS IN THE CONTINUOUS CASTING OF STEEL 67-01 M04-57932
THE APPLICATION OF NONSTATIONARY ELECTROMAGNETIC FIELDS IN THE CONTINUOUS CASTING OF STEEL 67-02 M04-59135
DIMENSIONAL ACCURACY AND SURFACE FINISH OF CAST ROCK BITS 67-02 M06-61194
INFLUENCE OF THE PRESSURE ON STRUCTURE AND PROPERTIES OF CAST DIE STEEL, 5KHNT 67-04 M06-67504
HEATING THE FEEDER HEADS OF ALLOY STEEL INGOTS BY EXOTHERMIC SLEEVES 67-05 M04-69683
THE CONTINUOUS CASTING OF SMALL SECTIONS 67-06 M04-71566
THE CONTINUOUS CASTING PLANT FOR ALLOY STEELS AT BAILDON, POLAND, WORKS 67-07 M04-73246
EXOTHERMIC SLEEVES FOR CONSERVING HEAT IN THE FEEDER HEADS OF ALLOY STEEL INGOTS 67-07 M04-74069
INCREASING THE YIELD OF KILLED INGOT STEEL BY USING ISOTHERMAL HOT STOPS 67-08 M04-74351
RESEARCH INTO THE PROPERTIES OF CAST HIGH-SPEED STEELS 67-08 M06-75460
SELECTION FACTORS FOR STEEL INVESTMENT CASTINGS 67-08 M06-75491
THE BOOM IN FERROUS INVESTMENT CASTINGS 67-08 M06-75495
HIGH INTEGRITY PRECISION CAST TOOL STEELS 67-09 M06-77982
CAST CUTTING DIES IN TOOLMAKING 67-12 M06-83574

TOOL STEELS, CHEMICAL ANALYSIS
SAMPLE PREPARATION AND REPRODUCIBILITY IN SPECTROGRAPHIC ANALYSIS OF HIGH-ALLOY STEELS 67-02 M19-59165
EFFECT OF SAMPLE GRAIN SIZE ON RESULTS OF SPECTRAL ANALYSIS STEELS 67-04 M19-67085
MICROCONSTITUENTS IN HIGH SPEED STEELS 67-04 M19-67271
OPERATING EXPERIENCE WITH EMISSION SPECTROANALYTICAL INVESTIGATIONS OF UNALLOYED AND ALLOYED STEELS WITH A VACUUM SPECTROMETER 67-06 M19-70047
ANALYSIS OF HIGH-ALLOY STEELS 67-06 M19-71706
EFFECT OF THE GRAIN SIZE OF THE SAMPLE ON THE RESULTS OF THE SPECTRAL ANALYSIS OF STEELS 67-09 M19-78066

TOOL STEELS, CLADDING
THIN STEEL SANDWICH FOR THE WOODWORKING INDUSTRY 67-02 M12-58853

TOOL STEELS, CLEANING
POLISHING POWER OF REFRACTORY COMPOUNDS 67-12 M09-82785

TOOL STEELS, COATING
PERCUSSION WELD SURFACING--A NEW APPROACH FOR CARBIDE COATING OF TOOLS AND DIES 67-01 M12-58689
CIRCULAR ELECTROSLAG DEPOSIT WELDING OF PARTS IN VERTICAL POSITION 67-02 M12-61252
CARBON TOOL STEEL AND CHROMIUM-NICKEL STRUCTURAL STEEL COATED WITH MOLYBDENUM BY DIFFUSION 67-04 M12-66023
THE CIRCUMFERENTIAL ELECTROSLAG BUILDING UP OF CYLINDRICAL COMPONENTS 67-04 M12-66525
HARD CHROME PLATING LENGTHENS LIFE OF MOLDS 67-05 M12-68665
SURFACE HARDENING, CORROSION AND SCALING PROTECTION OF STEEL BY METALLIC SURFACE IMPREGNATION 67-05 M18-68734
CHEMICAL NICKEL PALTING AND COBALT PLATING 67-08 M12-76018

TOOL STEELS, COATINGS
INVESTIGATION OF THE JET-STREAM WEAR IN BUILT-UP METAL 67-04 M17-66569

TOOL STEELS, CORROSION
CORROSION RESISTANCE OF STEELS USED FOR COMPONENTS OF METALLURGICAL EQUIPMENT 67-02 M18-61751
USE OF ACID CORROSION INHIBITORS FOR CORROSION

PROTECTION OF HIGH-STRENGTH CARBON STEELS
67-09 M18-76433
GASEOUS CORROSION RESISTANCE OF STEELS USED FOR COMPONENTS OF METALLURGICAL EQUIPMENT
67-10 M18-79667

TOOL STEELS, CRYSTAL LATTICES
STUDY OF THE RECRYSTALLIZATION OF STEEL ON HEATING IN VACUUM 67-04 M14-68077
FORMATION OF TUNGSTEN CARBIDE IN COMMERCIAL LOW-TUNGSTEN TOOL STEELS 67-09 M14-78225

TOOL STEELS, CUTTING
HARD METAL FOR CUTTING TOOL FACING
67-01 M11-58152
THE MECHANISM OF MATERIAL REMOVAL IN THE EROSIVE CUTTING OF BRITTLE MATERIALS 67-03 M08-65937
CONTACT ARC FLASH CUTTING OF FERROUS AND NONFERROUS ALLOYS 67-08 M11-75417
ARC CUTTING OF FERROUS AND NON-FERROUS METALS WITH A ROTATING DISC ELECTRODE 67-12 M11-82038

TOOL STEELS, DIE CASTING DIES
INNOVATIONS IN DIE CASTING DIE STEELS
67-03 M20-65402

TOOL STEELS, DIE MAKING
USE OF PRE-FINISHED DECARB-FREE FLATS
67-06 M07-70594

TOOL STEELS, DIES
APPLICATION AND BEHAVIOR OF CAST FORGING DIES
67-02 M07-59083
INTRODUCING 5KHGSVF STEEL FOR DIES
67-07 M08-73956
HIGH-STRENGTH STEEL FOR MOLDS AND DIES
67-08 M17-74970

TOOL STEELS, DIFFUSION
DIFFUSION KINETICS IN BINARY SYSTEMS IN THE PRESENCE OF CERTAIN PHASES 67-01 M14-57345
SOLUBILITY OF RARE EARTH METALS IN IRON
67-06 M14-69985

TOOL STEELS, FORGING
HERF UNDER THE MICROSCOPE 67-01 M07-57968
COLD FORMING 67-02 M07-59631
THE FORGING OF BLOCKS FOR FORGING DIES
67-06 M07-71271

TOOL STEELS, FORMING
MECHANIZED STRAIGHTENING OF HIGH-SPEED STEEL DRILLS DURING THE QUENCHING PROCESS 67-02 M08-61259
EXPLOSIVE HOT FORMING OF STEELS AND REFRACTORY METALS 67-05 M08-69742

TOOL STEELS, FRICTION
PROCESSES OF FRICTION AND WEAR AT DIFFERENT CONTENTS OF OXYGEN IN THE ZONE OF CONTACT
67-01 M17-57692

TOOL STEELS, HARD SURFACING
STRUCTURAL CHANGES IN METALS AFTER ELECTRIC SPARK ALLOYING 67-01 M11-57687
STRUCTURE OF TRANSITION ZONES IN ELECTROSLAG BUILDUP WITH A COMPOUND ELECTRODE
67-02 M11-62170
FEATURES OF THE TRANSITION ZONES DURING ELECTROSLAG METAL DEPOSITION USING COMPOSITE ELECTRODES 67-04 M12-67177
RECLAMATION OF OLD AND PRODUCTION OF NEW DROP FORGING DIES BY ELECTROSLAG WELDING
67-08 M11-75412

TOOL STEELS, HARDENING
USE OF INDUCTION HEATING FOR QUENCHING SWAGING DIES
67-01 M10-58089
IMPROVING THE WEAR RESISTANCE OF PUNCHES BY ULTRASONIC WORK HARDENING 67-01 M17-57334
STABILITY OF PLASTIC WORK HARDENING OF TOOL STEELS UNDER THE EFFECT OF HEAT 67-01 M17-58088
CHANGE IN THE MICROHARDNESS DURING THE STRENGTHENING OF METALS AND ALLOYS BY NUCLEAR IRRADIATION 67-02 M17-60897

TOOL STEELS, HEAT TREATMENT
QUENCHING SALT FOR THE HEAT TREATMENT OF HIGH-SPEED STEEL AND POSSIBILITIES OF REDUCING ITS DECARBURIZING EFFECT 67-02 M10-58862
EFFECT OF THE COMPOSITION OF MIXED NITRIDING ATMOSPHERES ON THE THICKNESS AND HARDNESS
67-02 M10-59582
STABILIZATION OF RETAINED AUSTENITE IN COBALT-VANADIUM HIGH-SPEED STEEL 67-02 M10-59951
DEFORMATION OF STEEL DURING QUENCHING
67-02 M10-60846
QUENCH HEATING OF STRUCTURAL STEELS IN MOLTEN NACL AND KCL SALTS 67-02 M10-60851
INFLUENCE OF HEATING RATE DURING TEMPERING OF QUENCHED STEEL AND INFLUENCE OF END-OF-QUENCH TEMPERATURE 67-02 M14-59418
HEAT TREATMENT OF STRUCTURAL STEELS AND OF TOOL STEELS 67-03 M10-65174
ISOTHERMAL QUENCHING OF BAINITIC TOOL STEELS
67-04 M10-66367
LOW-TEMPERATURE CARBONITRIDING OF TOOL STEELS IN AMMONIUM PASSED THROUGH HOT COAL
67-04 M10-66453
HOT HARDNESS OF HARD SURFACED LAYER OF VARIOUS MATERIALS 67-04 M10-66454
HEAT TREATMENT OF METALS. PT. 3
67-04 M10-66685
VACUUM HEAT TREATING FINDS A SPOT
67-04 M10-66698
LOW-TEMPERATURE GAS CYANIDING OF STEELS FOR MOLDS
67-04 M10-67966
FURNACE ELIMINATES FINISHING 67-05 M10-68420
DETERMINING THE CASE DEPTH IN HIGH-FREQUENCY INDUCTION SURFACE HARDENING 67-05 M10-68763
HEAT TREATMENT OF TOOL STEELS 67-05 M10-69183
HEAT TREATMENT OF BAR STEEL AT ACIERIES DU TEMPLE
67-05 M10-69346
NEW VACUUM FURNACE IMPROVES METAL PROPERTIES AND ELIMINATES FINISHING OPERATIONS
67-05 M10-69548
HEAT TREATMENT OF STRUCTURAL STEELS AND OF TOOL STEELS. PT. 2 67-06 M10-70855
RESIDUAL STRESS AND ANGULAR DISTRIBUTION OF TOOL STEEL 67-07 M10-73795
HEAT TREATMENT OF STRUCTURAL STEEL AND OF TOOL STEELS. PT. 16. FLAME HARDENING
67-07 M10-74221
THE REMOVAL OF HYDROGEN BY ANNEALING WITH INTERMEDIATE TRANSFORMATION 67-08 M10-74353
REMOVAL OF HYDROGEN FROM SMALL FORGINGS
67-08 M10-74354
CONTROLLING HARDNESS OF TEMPERED STEEL
67-08 M10-74457
SULFIDIZING OF STEELS TO INCREASE THEIR RESISTANCE TO SCORING 67-08 M10-74980
CONTROLLING DEFORMATION DURING TEMPERING
67-08 M10-75325
THERMOMECHANICAL TREATMENT OF BORING CHISELS
67-08 M10-76041
DEFORMATION OF STEEL DURING QUENCHING
67-08 M10-76104
HEATING OF STRUCTURAL STEELS TO QUENCHING TEMPERATURE IN MOLTEN NACL AND KCL
67-08 M10-76109
AN EVALUATION OF TYPE 321 STAINLESS STEEL FOIL WRAP IN HARDENING TOOL STEEL PARTS
67-08 M10-76175
INFLUENCE OF ADDITION OF AMMONIUM TO THE CARBURIZING GAS ON STRUCTURE AND MECHANICAL PROPERTIES OF DRILLING CHISELS
67-09 M10-77420
HARDNESS INCREMENT OF TOOL STEEL BY COMPRESSION QUENCHING 67-09 M10-78224
INFLUENCE OF THERMAL AND ULTRASONIC TREATMENT ON CARBIDE FORMATION DURING ANNEALING OF QUENCHED U12 CARBON TOOL STEEL 67-09 M14-77367
EXPERIENCE OF USING SHIELDING ATMOSPHERES IN HEAT TREATING FURNACES 67-10 M10-78373
HEAT TREATMENT IN THE TOOL INDUSTRY
67-10 M10-79215
SOME SPECIFIC DATA ON THE USE OF AISI 52100 STEEL FOR TOOLING APPLICATIONS 67-10 M10-79519
HEAT TREATING OF FERRO-TIC C STEEL-BONDED CARBIDE
67-10 M10-79526
HEAT TREATMENT OF STRUCTURAL STEELS AND OF TOOL STEEL 67-10 M10-79681
STEELS FOR PARTS ISOTHERMALLY ANNEALED TO BAINITE
67-11 M10-80969
LOW-TEMPERATURE CYANIDING OF HIGH-SPEED STEELS IN AMMONIA FILTERED THROUGH GLOWING COAL
67-11 M10-80994
RED HARDNESS OF HARDFACINGS OF DIFFERENT MATERIALS
67-11 M10-80995
EFFECT OF HEAT TREATMENT AND ALLOYING ON THE COLD HARDENING OF MANGANESE HIGH-CARBON STEEL
67-11 M10-81378
MATERIALS AND HEAT TREATMENT 67-11 M10-81496
RELATING THE FURNACE ATMOSPHERE TO THE JOB. PT. 2
67-12 M10-82882
THE EFFECT OF HEAT TREATMENT ON THE PROPERTIES OF THE HIGH-SPEED TOOL STEEL, X 85 W MO CO 6.5.5
67-12 M10-82932

TOOL STEELS, HEATING
RECENT DEVELOPMENTS IN ELECTRIC REHEAT FURNACES
67-02 M07-59150

DEVELOPMENT AND INVESTIGATION OF SPECIAL COMPOSITIONS OF GLASS FOR HEATING BILLETS 67-02 M10-59408

TOOL STEELS, MACHINING
TREATMENT OF STEEL WITH LASER RAYS 67-05 M08-68384
EFFECT OF EDM ON THE SURFACE PROPERTIES OF TOOL AND DIE STEELS 67-05 M08-69450
NEW HIGH-EFFICIENCY ELECTRODES--TOOLS FOR SPARK MACHINING MADE OF CERMET CHIPS 67-06 M09-72325
QUALITY OF THE SURFACE LAYER WHEN GRINDING WITH A DIAMOND WHEEL WITH A BAKELITE BINDER 67-07 M08-74287
FASTER FINISHING OF TUNGSTEN CARBIDE DIES 67-07 M12-74168
IMPROVING THE EDGE LIFE OF CUTTING TOOLS BY SPARK MACHINING 67-09 M08-77155
THE FORMATION OF THE MICROPROFILE ON BURNISHED WORKPIECES 67-10 M08-79680
PRODUCTION IS BASED ON EDM AT THIS PLANT 67-12 M08-82383
DIEMAKING ACQUIRES A NEW LOOK WITH EDM 67-12 M08-82803
MACHINING--NEW TRENDS IN OLD TECHNIQUES 67-12 M08-83134

TOOL STEELS, MAGNETIC PROPERTIES
PROCESSES OF CARBIDE TRANSFORMATION ON THE TEMPERING OF STEEL 67-01 M15-57357
MAGNETIC AND ELECTRICAL PROPERTIES OF QUENCHED AND TEMPERED CARBON STEELS 67-01 M15-58044

TOOL STEELS, MATERIALS
A CHROMIUM-MOLYBDENUM-TUNGSTEN-VANADIUM TOOL STEEL, FOR USE AT 200 TO 600 C., WHICH IS RESISTANT TO ABRASIVE WEAR 67-10 M01-79664

TOOL STEELS, MATERIALS TESTING
THE SUITABILITY OF THE R9500-1E MAGNETIC INDUCTION TESTING DEVICE FOR THE DETERMINATION OF SURFACE DECARBURIZATION IN STEEL RODS 67-03 M19-65571

TOOL STEELS, MECHANICAL PROPERTIES
INDUSTRIAL APPLICATION OF R12 STEEL 67-01 M17-57335
INFLUENCE OF AUSFORMING ON HARDNESS OF 18-4-1 HIGH SPEED STEEL 67-01 M17-57499
FATIGUE STRENGTH OF 90KHMF STEEL GROUND WITH DIAMOND DISKS 67-01 M17-57669
CHANGE IN THE MECHANICAL PROPERTIES OF 3KH2V8 AND 5KHGSVF STEELS DURING SECONDARY HIGH-FREQUENCY QUENCHING 67-01 M17-57675
DEFORMATION OF TOOL STEEL DURING HEAT TREATMENT 67-02 M10-58863
PROPERTIES OF CONTINUOUSLY CAST PRODUCTS 67-02 M17-59138
INVESTIGATION OF CONTACT FATIGUE DURING PRESSURE CYCLING 67-02 M17-59553
TOOL WEAR IN THE MACHINING OF STEEL MATERIALS 67-02 M17-59616
INVESTIGATION OF THE STRESS-RUPTURE STRENGTH OF CAST AND FORGED 15KH1M1F STEEL 67-02 M17-59670
EFFECT OF VARIOUS FACTORS ON THE STRESS CONCENTRATION SENSITIVITY OF HEAT RESISTANT MATERIALS AT HIGH TEMPERATURES 67-02 M17-59690
STRUCTURE AND CUTTING PROPERTIES OF SMALL SIZE DRILL BITS OF R18 TOOL STEEL 67-02 M17-59774
TOOL STEEL 67-02 M17-59949
HIGH-SPEED STEEL 67-02 M17-59950
ON THE DUCTILITY CRITERION IN PRESSURE DEFORMATION OF METALS 67-02 M17-60735
INFLUENCE OF DECARBURIZING ON THE PROPERTIES OF CARBURIZED STEELS 67-02 M17-60850
CREEP RESISTANCE OF WELDED JOINTS OF HEAT RESISTANT PEARLITIC STEELS 67-02 M17-61248
THE INHERENCE OF THE PROPERTIES OF THERMOMECHANICALLY TREATED STEEL 67-02 M17-61931
REDUCTION OF AREA IN HOT DEFORMATION BY TENSILE STRESS 67-02 M17-61996
STUDY OF MATERIAL FOR UNLUBRICATED ROLLING PARTS FOR HIGH-TEMPERATURE SERVICE 67-02 M17-61998
A METHOD FOR DECREASING RESIDUAL STRESSES IN QUENCHED STEEL PARTS 67-03 M10-65204
EFFECT OF COOLING LIQUID ON THE FRICTION PROCESS AND TOOL WEAR 67-03 M17-65207
CHARACTERISTICS OF STRESS-STRAIN DIAGRAMS WHEN TESTING HIGH-STRENGTH STEEL CONTAINING STRAINED MARTENSITE 67-03 M17-65610
ON THE DUCTILE BEHAVIOR OF NOMINALLY BRITTLE MATERIALS DURING EROSIVE CUTTING 67-03 M17-65936
FRACTURE OF STEEL BILLETS DUE TO THERMAL STRESSES 67-04 M17-66099
PHASE TRANSFORMATIONS AND PROPERTIES OF CUTTING TOOL ALLOYS WITH INTERMETALLIC STRENGTHENING PHASES 67-04 M17-66366
THE HEAT RESISTANCE OF WELDED JOINTS IN HIGH TEMPERATURE PEARLITIC STEEL 67-04 M17-66521
ISOTHERMAL TREATMENT AND MECHANICAL PROPERTIES OF ALLOYED WIRE 67-04 M17-66626
EFFECT OF COLD WORKING ON THE RESISTANCE OF PEARLITIC STEEL TO PROLONGED EXPOSURE TO HIGH TEMPERATURES 67-04 M17-67970
HEAT RESISTANCE OF CHROMIUM STEELS SUBJECTED TO PROLONGED TESTS 67-05 M17-68355
PROLONGED RESISTANCE OF EI579 STEEL TO HIGH TEMPERATURES IN HYDROGEN 67-05 M17-68364
EFFECT OF PLASTIC STRENGTHENING ON THE HEAT RESISTANCE OF 3KH2V8 DIE STEEL 67-05 M17-68447
LOW COST STEEL COVERS SPECTRUM OF TOOL STEEL APPLICATIONS 67-05 M17-68775
DEFORMATION OF HIGH-SPEED STEELS DURING QUENCHING. INDEFORMABLE HIGH-SPEED STEELS 67-05 M17-69195
AISI 5160 --HIGH STRENGTH MACHINERY STEEL-- 67-06 M01-71452
HEPPENSTALL GR. C57 --HOT WORK DIE STEEL-- 67-06 M01-71453
A METHOD OF DETERMINING THE RED HARDNESS OF HIGH-SPEED ALLOYS 67-06 M17-70290
DETERMINATION OF TOUGHNESS OF HARD STEELS 67-06 M17-70824
DETERMINATION OF TOUGHNESS OF HARD STEELS BY STATIC COMPRESSION TESTING AND BY TORSION TESTING 67-06 M17-70825
CRACK FORMATION IN HYDROGEN-CHARGED STEEL TENSILE-TEST SPECIMENS 67-06 M17-70839
DETERMINING THE DUCTILITY OF METALS FROM THE RESULTS OF DYNAMIC BEND TESTS 67-06 M17-70913
BRIDGING THE GAP WITH THE NEW TITANIUM GRADE CARBIDES 67-06 M17-71587
THE DETERMINATION OF THE DUCTILITY OF HARD TOOL STEELS WITH PARTICULAR EMPHASIS ON TORSION IMPACT TESTING 67-06 M17-72161
TOOL STEEL SOCKET SCREWS KEEP HOT WORK DIES ON LINE 67-06 M20-70682
THE EROSION OF DEPOSITED METALS BY STREAMS OF ABRASIVE SUBSTANCES 67-07 M17-73426
INFLUENCE OF THE ACIDITY OF CORROSION MEDIUM AND POLARIZATION CONDITIONS ON CRACK PROPAGATION KINETICS IN QUENCHED U8 STEEL 67-07 M18-73170
EFFECT OF MOLYBDENUM ON THE PROPERTIES OF STAINLESS TOOL STEELS 67-08 M17-74344
FIGHT AGAINST WEAR STARTS WITH MATERIAL SELECTION 67-08 M17-74488
CHARACTERISTICS OF STRESS-STRAIN DIAGRAMS IN TESTING HIGH-STRENGTH STEEL WITH DEFORMED MARTENSITE 67-08 M17-74535
STRUCTURE AND HARDNESS OF AUSFORMED OR DEFORMED FERROUS MARTENSITES 67-08 M17-75151
TORSIONAL DUCTILITY AND STRENGTH OF IRON-CARBON ALLOYS AT ELEVATED TEMPERATURE 67-08 M17-75975
INFLUENCE OF DECARBURIZATION ON THE PROPERTIES OF CASE HARDENED STEEL 67-08 M17-76108
STRUCTURE AND CUTTING PROPERTIES OF SMALL DRILLS MADE OF R18 STEEL 67-08 M17-76133
HARD SURFACING OF HOT STAMPING DIES 67-09 M12-76414
THE MECHANICAL PROPERTIES OF AUSFORMED TOOL STEELS CONTAINING 9 PER CENT W-3 PER CENT CR 67-09 M17-77252
COLD WORK DIE STEELS MEET NEW DEMANDS IN THE AUTOMATION AND SPACE AGE 67-10 M01-79518
A LOW-COST, SECONDARY HARDENING STEEL THAT COVERS THE SPECTRUM OF TOOL-STEEL APPLICATIONS 67-10 M01-79520
CHANGES IN THE WEAR RESISTANCE OF GRADE R18 STEEL THROUGH INTRODUCING ULTRASONIC VIBRATIONS 67-10 M17-78380
THERMOMECHANICAL TREATMENT OF 20GMR STEEL DURING CONTINUOUS COOLING 67-10 M17-79212
CREEP AND FATIGUE STRENGTH OF QUENCHED AND TEMPERED TYPE M-2 AND TYPE H-13 STEELS IN

TEMPERATURE RANGE OF 300 TO 550 C
67-10 M17-79994
TOUGHNESS AND STRENGTH OF HARDENED TOOL STEELS
67-11 M17-80342
ANALYSIS OF TOOL AND DIE FAILURES
67-11 M17-80686
TRANSFORMATIONS AND PROPERTIES OF HIGH-SPEED ALLOYS HARDENED WITH INTERMETALLIC COMPOUNDS
67-11 M17-80968
STUDY OF THE ABRASIVE WEAR OF MATERIALS UNDER ACTUAL CONDITIONS OF BLAST FURNACE OPERATION
67-12 M17-81728
NITRIDING FOR IMPROVING THE STABILITY OF CUTTING TOOLS
67-12 M17-81777
IMPACT STRENGTH OF CAST TOOLS MADE OF R5M2F2 HIGH-SPEED TOOL STEEL
67-12 M17-81778
HIGH TEMPERATURE THERMOMECHANICAL TREATMENT OF CARBON STEELS
67-12 M17-82151
BREAKING TORQUE OF TAPS
67-12 M17-82300
STRENGTH AND WORK-HARDENING BEHAVIOR OF THE 100CR6 TOOL STEEL AS A FUNCTION OF HEAT TREATMENT
67-12 M17-82839

TOOL STEELS, MELTING
ELECTROSLAG REFINING PROMISES BETTER QUALITY TOOL STEELS
67-05 M04-68933
CONSUMABLE REMELTING WITH THE HOPKINS PROCESS
67-06 M04-70128
THE HYDROGEN CONTENTS OF LIQUID STEEL FROM THE ELECTRIC ARC FURNACE WHEN USING LUMP LIME, LIME FINES, AND SMALL-SIZE SOFT-BURNT LIME
67-07 M04-72711
STREAM DEGASSING AS A METHOD TO IMPROVE QUALITY AND INCREASE PRODUCTION IN THE MELTING OF SPECIAL STEELS
67-08 M04-74352

TOOL STEELS, METAL WORKING
THE IMPROVEMENT IN MECHANICAL PROPERTIES BY THERMO-MECHANICAL TREATMENT AND ITS APPLICATION TO TOOL MATERIALS
67-01 M17-57218
SHOCK TREATMENT IMPROVES HIGH-SPEED STEEL TOOLS
67-03 M08-65118
THE FINE GRINDING OF SUPERFINISHING OF COLD-ROLLING ROLLS--A COMPARISON. PT. 1
67-04 M08-67187
RAPID DIE STEEL RULE PRESS TOOLS
67-06 M08-70709
TOOLS MADE OF CRUCIBLE STEELS AND COMPARABLE GRADES
67-06 M20-72137
DETERMINING THE FORMABILITY OF R18 STEEL AT HIGH LOADING RATES
67-07 M08-73951
FASTENERS MADE STRONGER VIA VACUUM PROCESSING
67-12 M08-82400

TOOL STEELS, METALLOGRAPHY
METALLOGRAPHIC STUDY OF THE STRUCTURE OF SECONDARY HARDENING ZONES
67-06 M13-70110
NEW METALLOGRAPHIC REAGENT FOR IRON, CARBON-ALLOY, AND TOOL STEELS
67-11 M13-81142
WORK WITH THE HIGH-TEMPERATURE MICROSCOPE
67-12 M13-83397

TOOL STEELS, MICROSTRUCTURE
ESTABLISHMENT OF DIAGRAMS OF STRUCTURES OF CHROMIUM AND TUNGSTEN STEELS ON THE BASIS OF THE EXTENT IN SPACE OF THE AUSTENITE DOMAIN IN THE TERNARY ALLOYS IRON---CHROMIUM OR TUNGSTEN---CARBON
67-02 M13-58928
GRAIN-SIZE DETERMINATION ON HARDENED STEEL FROM X-RAY INTENSITY FLUCTUATIONS
67-04 M13-67666
THE EFFECT OF CRYSTALLINE SEGREGATIONS ON THE DEFORMATION BEHAVIOR OF ALLOY STEELS
67-04 M14-67208
PROBLEMS IN THE DIRECT DETERMINATION OF GRAIN SIZE AT ELEVATED TEMPERATURES
67-06 M13-72160
BEHAVIOR OF THE INCLUSIONS FORMED IN HIGH-CHROMIUM FREE-CUTTING STEEL. PT. 2. A STUDY OF INCLUSIONS IN FREE-CUTTING STEEL
67-06 M14-72021
HEREDITARY EFFECT OF ULTRASONIC TREATMENT ON THE GROWTH OF AUSTENITIC GRAINS
67-09 M14-77368
THE AMOUNT AND LOCAL DISTRIBUTION OF CARBIDES IN TOOL STEELS
67-10 M13-79065
EFFECT OF ULTRASONIC VIBRATIONS ON THE STRUCTURES OF ALLOYS
67-10 M14-78801

TOOL STEELS, PHASE TRANSFORMATIONS
MICROSTRUCTURAL TRANSFORMATIONS DURING TEMPERING OF COMPLEX ALLOY STEELS WITH 12 PER CENT CR ARE STUDIED BY AN ELECTRON MICROSCOPE
67-01 M14-58173
PROBLEM OF THE FORMATION OF AUSTENITE DURING ELECTRIC HEATING OF HYPEREUTECTOID STEELS
67-02 M14-58892
THE NATURE OF TRANSFORMATIONS DURING HIGH-TEMPERATURE TEMPERING OF ANNEALED HIGH-SPEED STEEL
67-02 M14-59677
EFFECT OF ULTRASONIC VIBRATION ON DECOMPOSITION OF RESIDUAL AUSTENITE IN KHVG STEEL
67-02 M14-62268
TRANSFORMATION OF AUSTENITE DURING CONTINUOUS COOLING
67-04 M14-67615
THE PHASE TRANSITION DUE TO SHOCK COMPRESSION IN IRON
67-05 M14-68843
CARBIDE TRANSFORMATIONS ON THE TEMPERING OF STEELS 12KH1MF AND 15KH1M1F
67-05 M14-68851
MARTENSITIC TRANSFORMATION IN MEDIUM- AND LOW-ALLOY TOOL STEEL
67-06 M14-70288
THE PROBLEM OF STABILIZING AUSTENITE
67-08 M14-74343
STUDY OF CARBIDE TRANSFORMATIONS DURING HEAT RESISTANCE TESTING OF 12KH1MF AND 15KH1M1F STEELS
67-12 M14-82345

TOOL STEELS, PHASES /STATE OF MATTER/
THE STRUCTURE AND PROPERTIES OF A HIGH-SPEED STEEL CONTAINING ALUMINUM IN THE CAST STATE
67-10 M14-78345

TOOL STEELS, RECRYSTALLIZATION /METALLURGICAL/
INVESTIGATION OF THE RECRYSTALLIZATION OF STEEL DURING VACUUM HEATING
67-02 M14-58831

TOOL STEELS, REFINING
THE ELECTROSLAG REFINING PROCESS
67-01 M04-57975
ELECTROSLAG REFINING AT HALL AND PICKLES
67-07 M04-72485
ELECTROSLAG REMELTING AT ESC
67-11 M04-80403
ELECTROSLAG REMELTING AT ESC
67-12 M04-81952

TOOL STEELS, ROLLING
EXPERIMENTAL STUDY OF CONTACT STRESSES IN HOT ROLLING OF CARBON STEELS
67-02 M07-61747
NEW PROCESS IMPROVES MACHINABILITY OF BAR STOCK
67-11 M07-80933

TOOL STEELS, SPECIFICATIONS
VERSASTEEL --HIGH-CARBON ALLOY TOOL STEEL--
67-04 M01-66320
CHOICE OF STEELS FOR MOULDS AND DIES
67-04 M17-67068

TOOL STEELS, STRUCTURES /CRYSTALLINE/
INFLUENCE OF ULTRASOUND ON THE STRUCTURE OF ALLOYS
67-06 M14-70055

TOOL STEELS, SURFACE FINISHING
DIAMOND LAPPING A CUTTING INSTRUMENT MADE OF HIGH-SPEED STEEL
67-01 M08-57336
DIAMOND LAPPING OF STEEL PIECES
67-01 M08-57337

TOOL STEELS, THERMAL STABILITY
HEAT RESISTANCE OF MACHINE PARTS OF METALLURGICAL EQUIPMENT
67-05 M17-68370

TOOL STEELS, VACUUM METALLURGY
METALLURGICAL AND OPERATIONAL CONSIDERATIONS OF MELTING IN THE THERM-I-VAC FURNACE
67-02 M06-60225

TOOL STEELS, WEAR
EFFECT OF HEAT TREATMENT CONDITIONS ON THE SERVICE LIFE OF CR12MOV STEEL DIES
67-02 M17-60792
ABRASIVE-RESISTANT ALLOYS FOR LINING THE PLATES OF ROD MILLS
67-06 M17-70318
WEAR RESISTANCE OF TOOL STEELS IN ORGANIC MEDIA
67-08 M17-74978
DRILLING CAST HEAT RESISTANT STEELS WITH HIGH-SPEED COBALT AND MOLYBDENUM STEEL DRILLS
67-09 M08-76444
SOME REGULARITIES OF WEAR AND WEAR INCREASE OF PUNCHES USED IN CRANK FORGE PRESSES
67-10 M17-78546

TOOL STEELS, WELDING
ON THE WELDING OF STEELS WITH LIMITED WELDABILITY. EXAMPLES FOR MATERIALS PROBLEMS
67-01 M11-58114
TEMPORARY STRUCTURAL DEFORMATIONS IN ELECTROSLAG WELDING
67-01 M11-58207
CHARACTERISTICS OF PLASTIC DEFORMATION DURING WELDING WITHOUT FUSION
67-02 M11-59512
RESISTANCE BUTT WELDING AND HEAT TREATMENT OF BAND SAWS
67-02 M11-60136
WHERE DO WE STAND IN WELDING HIGH STRENGTH STEELS
67-02 M11-61098
ELECTRON BEAM WELDING SOLVES PRODUCTION PROBLEM
67-02 M11-61859
THE FLASH WELDING AND HEAT TREATMENT OF BAND SAWS
67-04 M11-67676
CONDENSER WELDING OF TOOL STEELS AND CERMETS
67-07 M11-72740
MANUFACTURING CUTTING TOOLS BY DEPOSIT WELDING
67-10 M11-78414

TOOL STEELS
RECONDITIONING WORN DROP STAMP DIES AND PRODUCING NEW DIES 67-12 M11-82033
CAPACITOR DISCHARGE WELDING OF TOOL STEELS AND HARD ALLOYS 67-12 M11-82319
MECHANIZED HARD SURFACING OF TRIMMING DIES 67-12 M11-82635
TRANSFORMATIONS AND REACTIONS IN THE HEAT AFFECTED ZONE DURING WELDING AND FLAME CUTTING 67-12 M11-83205
TOOLING
SEE ALSO FIXTURES
JIGS
CUTTING, STAMPING AND DRAWING TOOLS 67-06 M08-70696
NEW MATERIALS TAME TOUGH JOBS 67-07 M20-72536
BEARINGS, TOOLING, INSTRUMENTS AND OTHER MECHANICAL APPLICATIONS 67-08 M20-74833
TOOLS
HOT-WORKING TOOLS 67-01 M20-58700
TOOLS MADE OF CRUCIBLE STEELS AND COMPARABLE GRADES 67-06 M20-72137
TOOLS, CORROSION PREVENTION
THE PROTECTIVE MECHANISM OF EMULSIFIABLE OILS AGAINST CAVITATION AND CORROSION 67-01 M18-58438
TOOLS, DESIGN
THEORETICAL METHOD OF DESIGNING TOOLS FOR METAL-FORMING PROCESSES 67-08 M01-76078
TOOLS, MACHINING
TIME AND WHEEL SAVINGS IN ROUGH-GRINDING TUNGSTEN CARBIDE 67-01 M08-58788
SPARK EROSION IN TOOL MANUFACTURE 67-08 M08-74567
TOOLS, WEAR
ECONOMICAL PRODUCTION IN THE DAIRY FITTINGS INDUSTRY THROUGH THE INTRODUCTION OF PRECISION-CAST HOUSING PARTS 67-02 M06-60034
TOP BLOWN CONVERTERS
SEE ALSO LD CONVERTERS
METHODS OF STEELMAKING IN CONVERTERS 67-01 M04-57680
MODELING THE DESULFURIZATION PROCESS IN THE BATH OF A CONVERTER TOP-BLOWN WITH OXYGEN 67-04 M04-67240
CONTRIBUTION TO THE STUDY OF DEPHOSPHORIZATION IN THE OXYGEN TOP-BLOWING CONVERTER 67-07 M04-72475
BLOW CONTROL IN TOP-BLOWING OXYGEN CONVERTERS 67-09 M04-76502
METALLURGICAL STUDIES ON OXYGEN STEEL MELTS TOP-BLOWN FROM HIGH-PHOSPHORUS PIG IRON 67-09 M04-76503
RESEARCH INTO BLOWING VANADIUM-CONTAINING IRONS FROM KACHKANARSK ORE IN 100-TON OXYGEN CONVERTERS 67-09 M04-76573
TOP CASTING
INVESTIGATION OF EFFICIENT METHODS OF CASTING DIFFERENT GRADE STEELS 67-02 M04-59849
TOP GAS
SEE BLAST FURNACE GAS
TOP POURING
MODEL EXPERIMENT ON THE TOP POURING OF STEEL INGOTS 67-06 M04-72279
POURING HIGHER CARBON RIMMING STEELS WITH THE ADDITION OF OXYGEN TO THE METAL STREAM 67-07 M04-73265
TOPOLOGY
IDENTIFICATION AND GROWTH TOPOLOGY OF CRYSTALS DEPOSITED IN AN AL-CU-AG ALLOY 67-04 M14-66395
IDENTIFICATION AND GROWTH TOPOLOGY OF CRYSTALS DEPOSITED IN AN AL-CU-AG ALLOY 67-05 M14-68594
TOPPING /HOT/
SEE HOT TOPPING
TORCH WELDING
SEE GAS WELDING
TORCHES
SEE PLASMA ARC TORCHES
TOROIDAL CORES
SEE MAGNETIC CORES
TORQUE
HOW ROLLING RATE AFFECTS BITE TORQUE ON A COLD 2800 MILL 67-01 M07-58171
CALCULATION OF THE ROLL FORCE AND TORQUE REQUIRED IN ROLLING STRIP WITH ELEVATED DEFORMING SPEEDS 67-07 M07-73285
CALCULATION OF THE COLD ROLLING TORQUE OF STRIP WITH TENSION 67-07 M07-73475
PERFORMANCE OF NUTS ON HIGH STRENGTH BOLTS 67-08 M17-74795
RESISTANCE TO DEFORMATION AND TORQUE WHEN ROLLING IN BREAKING-DOWN PASSES 67-09 M07-76505
MAGNETIC AND MAGNETOSTRICTION PROPERTIES OF AN ERBIUM SINGLE CRYSTAL IN THE PARAMAGNETIC REGION 67-11 M15-81370
MAGNETIC PROPERTIES OF ANOMALOUS NICKEL THIN FILMS 67-12 M15-81765
TORQUE CONVERTERS
SEE ALSO TRANSMISSIONS /AUTOMOTIVE/
TORQUE CONVERTERS, METAL WORKING
PRESSWORK--PRESS TOOLS FOR PRODUCING COMPONENTS FOR FLUID TRANSMISSIONS 67-08 M08-75560
TORQUE CONVERTERS, WELDING
HIGH SPEED WELDER FOR TORQUE CONVERTER TRANSMISSIONS 67-05 M12-68666
TORSION
MAGNETOELASTIC INTERACTION OF DISLOCATIONS AND FERROMAGNETIC DOMAIN WALLS AND TORSIONAL MICROCREEP EXPERIMENTS ON IRON AND NICKEL TUBES 67-07 M15-73565
TORSION
TORSION CREEP OF CIRCULAR AND NONCIRCULAR TUBES
TORSION CREEP OF CIRCULAR AND NONCIRCULAR TUBES 67-12 M17-83568
TORSION TESTS
THE BEHAVIOUR OF STEEL TUBES FITTED WITH APERTURES AND SUBJECTED TO BENDING AND TORSION 67-01 M17-57204
SIMPLE CONSTRUCTION FOR MEASURING INTERNAL FRICTION IN TORSION 67-01 M17-57227
CROSS-SECTIONAL AND LONGITUDINAL YIELDING OF MILD STEEL CYLINDERS UNDER TORSION 67-02 M17-58805
LIMIT OF THE GREATEST STRESS AT YIELD POINT 67-02 M17-58806
THE SHAPE OF MECHANICAL HYSTERESIS LOOP, ITS DEFORMATION DUE TO STRESS REPETITION AND RESULTING INCREASE IN FLOW STRESS. PT. 2. THEORY FOR TORSION 67-02 M17-58828
THE USE OF IMPACT TORSION TESTING IN THE TESTING OF SURFACE-TREATED MATERIALS 67-02 M17-60024
INVESTIGATION OF THE MECHANICAL PROPERTIES OF POROUS IRON IN TENSION AND TORSION. PT. 2 67-02 M17-62115
EFFECT OF SPECIMEN THICKNESS ON THE SUPERCONDUCTING BEHAVIOR OF NIOBIUM SINGLE CRYSTALS IN TORSION 67-03 M16-65224
STUDY ON THE EVALUATION OF HOT WORKABILITY OF STEELS BY HOT TORSION TESTS 67-04 M08-67184
DISCUSSION OF THE EFFECTS OF METALLIC COATINGS ON THE TORSIONAL RECOVERY OF WIRES 67-04 M17-66543
RELATIONSHIP BETWEEN THE TORSION OR BENDING CREEP STRENGTH AND THE TENSION CREEP STRENGTH OF 13 PER CENT CR STEEL 67-04 M17-66894
TORSION PENDULUM FOR THE MEASUREMENT OF INTERNAL FRICTION IN BULK SAMPLES OF STEEL AT LOW FREQUENCIES 67-04 M17-67192
EVALUATION OF THE BEHAVIOR OF STEELS AND ALLOYS DURING HOT DEFORMATION WITH THE AID OF HOT TORSION SPECIMENS 67-04 M17-67202
THE EFFECT OF TRACE ELEMENTS ON THE DEFORMATION BEHAVIOR OF A HIGH-TEMPERATURE NICR STEEL 67-04 M17-67410
PLASTIC TORSION 67-04 M17-67611
AN EXPERIMENTAL STUDY ON THE TORSIONAL FATIGUE STRENGTH OF HOLLOW SPECIMENS WITH DRILL HOLES 67-05 M17-68463
TORSIONAL FATIGUE TEST OF MILD STEEL CONTAINING NONMETALLIC INCLUSIONS 67-05 M17-68464
STUDY OF THE RECOVERY OF AL TWISTED AT LOW TEMPERATURES 67-05 M17-68873
TEMPERATURE DEPENDENCE OF INTERNAL FRICTION IN GRAY CAST IRON 67-05 M17-69661
DUCTILITY OF STAINLESS AND HEATPROOF STEELS 67-05 M17-69695
STUDY OF PROCESS OF MANUFACTURE OF 13 PER CENT CHROMIUM STAINLESS STEEL TUBE. PT. 1. HOT WORKABILITY 67-06 M07-72393
INTERNAL FRICTION MEASUREMENTS IN PLASTICALLY DEFORMED ALUMINUM AT CONSTANT VIBRATION AMPLITUDE 67-06 M17-69958
DUCTILITY CRITERION FOR NICKEL AND CHROMIUM STEELS AND ALLOYS 67-06 M17-70102
MEASUREMENT AND SIGNIFICANCE OF THE SPRING BACK OF METAL WIRES 67-06 M17-71592
HOT WORKING PROPERTIES OF CONTINUOUSLY CAST STEELS

67-06 M17-72022
THE DETERMINATION OF THE DUCTILITY OF HARD TOOL STEELS WITH PARTICULAR EMPHASIS ON TORSION IMPACT TESTING 67-06 M17-72161
RECOVERY OF INTERNAL FRICTION IN MO SINGLE CRYSTALS 67-06 M17-72355
AN INSTALLATION FOR DETERMINING THE PLASTICITY OF METALS BY TORSION AT HIGH TEMPERATURES 67-07 M17-72871
TECHNOLOGICAL DUCTILITY OF STAINLESS AND HEAT-RESISTANT STEELS 67-07 M17-74081
TORSION TESTING AS A MEANS OF ASSESSING DUCTILITY AT HIGH TEMPERATURES 67-08 M17-76142
APPARATUS FOR DETERMINING THE PLASTICITY OF METALS IN TORSION AT HIGH TEMPERATURES 67-12 M17-82179
BREAKING TORQUE OF TAPS 67-12 M17-82300

TORSIONAL FATIGUE
ON SECOND-ORDER STRAIN ACCUMULATION IN TORSION FATIGUE 67-02 M17-61295
AN APPARATUS FOR DETERMINING THE ELASTIC CONSTANT OF METALS IN THE 20 TO - 253 C. TEMPERATURE RANGE 67-03 M17-65612
MEASUREMENT AND SIGNIFICANCE OF THE SPRING BACK OF METAL WIRES 67-06 M17-71592
ON THE CHANGES OF SOME PROPERTIES OF STEEL DURING ALTERNATING STRESSES 67-07 M17-73708
PERFORMANCE OF NUTS ON HIGH STRENGTH BOLTS 67-08 M17-74795

TORSIONAL FATIGUE, HEATING EFFECTS
THE BEHAVIOR OF SOME --ALPHA PLUS BETA-- TI ALLOYS UNDER STATIC AND DYNAMIC STRESS AT ELEVATED TEMPERATURES 67-05 M17-68514

TORSIONAL MODULUS
SEE SHEAR MODULUS

TORSIONAL STRENGTH
SEE SHEAR STRENGTH

TORSIONAL VIBRATION
SEE TORSION
VIBRATION

TOUGHNESS
SEE ALSO FRACTURE TOUGHNESS
NOTCH TOUGHNESS
THE TECHNOLOGY OF HIGH SPEED STEELS. PT. 1 67-01 M17-58720
THE PROPERTIES OF LOW-CARBON IRON-NICKEL-CHROMIUM MARTENSITES 67-02 M17-59426
ROLLING HISTORY IN RELATION TO THE TOUGHNESS OF SHIP PLATE 67-04 M17-66682
A NEW TYPE OF 13 PER CENT CR CAST STEEL WITH HIGH PROPERTIES AND IMPROVED WELDABILITY 67-05 M17-68782
INFLUENCE OF DEOXIDATION PRACTICE IN BASIC ELECTRIC ARC STEELMAKING ON THE CLEANNESS AND MECHANICAL PROPERTIES OF 0.20-0.25 PER CENT CARBON CAST STEELS 67-07 M04-72754
THE MECHANICAL PROPERTIES OF CARBONITRIDED STEELS. PT. 1. BENDING STRENGTH AND TOUGHNESS OF CARBONITRIDED STEELS WITH HIGH CORE STRENGTHS 67-07 M17-73186
MECHANICAL PROPERTIES OF CERAMICS--AN INTRODUCTORY SURVEY 67-11 M05-80669
FRACTURE CHARACTERISTICS OF ALUMINUM-ALLOY PLATE IN TENSION TESTS OF LARGE CENTER-SLOTTED PANELS 67-11 M17-80684
THE APPLICATION OF THERMOMECHANICAL TREATMENTS TO STEELS 67-11 M17-80685

TOUGHNESS, ALLOYING EFFECTS
TOUGHNESS OF HIGH-STRENGTH, HOT ROLLED STEELS 67-05 M17-69445
THE EFFECT OF NICKEL ON THE LOW-TEMPERATURE BRITTLENESS OF IRON AND STEELS 67-11 M17-80948

TOUGHNESS, COMPOSITION EFFECTS
EVALUATION ON THE QUALITY OF FLAKE GRAPHITE CAST IRON 67-03 M17-65843

TOUGHNESS, HEATING EFFECTS
TOUGHNESS AND STRENGTH OF HARDENED TOOL STEELS 67-11 M17-80342
THE TOUGHNESS OF FERRITIC STEEL STRENGTHENED BY PRECIPITATION OF CBC 67-12 M17-82566

TOUGHNESS, TEMPERATURE EFFECTS
PROBLEMS, PROPERTIES AND SELECTION OF STRUCTURAL METALS FOR USE IN CRYOGENIC ENVIRONMENT 67-06 M17-72092

TOWERS
SEE ALSO RADIO TOWERS
TRANSMISSION TOWERS
SPECIAL CORROSION RESISTANT ALLOY USED FOR LARGE NITROGEN FERTILIZER TOWER 67-06 M20-71319

TOWERS, WELDING
AN ALUMINUM BELL TOWER 67-06 M11-71839

TOXICITY
SEE TOXICOLOGY

TOXICOLOGY
DEGASSING ABILITY OF FREON 12 --CCL2F2-- AND NITROGEN-FREON 12 GAS MIXTURE. PT. 2. STUDIES ON DEGASSING MEDIUM FOR ALUMINUM 67-06 M06-71214

TRACE ELEMENTS
RESIDUAL METALS IN OPEN HEARTH STEEL 67-03 M04-65542
IMPURITY DISTRIBUTION IN MGO 67-03 M09-65652
HIGH-STRENGTH WELDABLE STRUCTURAL STEELS AND THEIR PROPERTIES 67-04 M17-66906
DETERMINATION OF TRACE IMPURITIES IN METALS BY SPARK SOURCE MASS SPECTROMETRY 67-04 M19-67599
THE RECRYSTALLIZATION BEHAVIOUR OF ZINC ALLOYS CONTAINING MAGNESIUM, CADMIUM, COPPER, SILVER, LEAD AND IRON 67-06 M14-69903
SUGGESTED METHOD FOR SPECTRO-CHEMICAL ANALYSIS OF PALLADIUM BY THE PELLET-SPARK AND D-C ARC TECHNIQUES 67-06 M19-70861
SUGGESTED METHOD FOR SPECTROCHEMICAL ANALYSIS OF RHODIUM BY THE PELLET TECHNIQUE 67-06 M19-70862
DETERMINATION OF MINOR AND TRACE ELEMENTS IN NICKEL BY X-RAY SPECTROSCOPY 67-06 M19-70863
RESIDUAL ELEMENTS IN FLAT ROLLED PRODUCTS 67-07 M19-73294
SOLIDIFICATION OF THE ALUMINUM-SILICON ALLOYS AND THE EFFECT OF ADDITION ELEMENTS. PT. 1 67-10 M14-79082

TRACE ELEMENTS, ALLOYING EFFECTS
CONTRIBUTION TO THE STUDY OF URANIUM ALLOYS CONTAINING SMALL AMOUNTS OF ADDITION ELEMENTS 67-01 M14-57169

TRACE ELEMENTS, CHEMICAL ANALYSIS
THE DETERMINATION OF METALLIC TRACE ELEMENTS BY AUTOMATIC ATOMIC ABSORPTION SPECTROMETRY 67-03 M19-65703
ATOMIC ANALYSIS IN FLAMES 67-05 M19-69358
A METHOD FOR TRACE ANALYSIS WITH AN ELECTRON MICROPROBE 67-06 M19-71431
TOTAL-BURN SPECTROGRAPHIC DETERMINATION OF SILICON IN PLUTONIUM 67-07 M19-73876
THE DETERMINATION OF TRACE ELEMENTS IN CAST IRON USING A DIRECT READING SPECTROMETER 67-08 M19-75585
IMPURITY ANALYSIS OF ALKALI HALIDES BY MASS SPECTROGRAPHY 67-08 M19-75992
TRACE CHARACTERIZATION BY ELECTROCHEMICAL METHODS 67-11 M19-80133
CHEMICAL SPECTROPHOTOMETRY IN TRACE CHARACTERIZATION 67-11 M19-80136
RADIOACTIVITY TECHNIQUES IN TRACE CHARACTERIZATION 67-11 M19-80137
NEW CONTRIBUTIONS TO THE SPECTROGRAPHIC DETERMINATION OF IMPURITIES IN URANIUM MATERIALS BY THE FRACTIONAL CARRIER DISTILLATION METHOD 67-12 M19-83493

TRACE ELEMENTS, DIFFUSION
TRACER DIFFUSION OF MERCURY IN THALLIUM AMALGAMS 67-07 M14-72875

TRACE ELEMENTS, EXTRACTION
PRECONCENTRATION IN TRACE ANALYSIS 67-11 M19-80139

TRACE ELEMENTS, IRRADIATION
ACTIVATION ANALYSIS OF CERTAIN METALLOIDS IN THE TRACE CONDITION IN ULTRAPURE BERYLLIUM 67-03 M19-65250

TRACER MACHINES
COPY-MACHINING OPERATIONS ON A COMPLEX THIN-WALLED COMPONENT 67-04 M08-68052

TRACERS
SEE RADIOACTIVE TRACERS

TRACING /RADIOACTIVE/
SEE RADIOACTIVE TRACERS

TRACK /RAILROAD/
SEE RAILROAD TRACK

TRACKS /VEHICLE PARTS/, HEAT TREATMENT
MORE PRODUCTION THROUGH MODERNIZATION 67-02 M10-61102

TRACTORS
IMPROVING THE QUALITY OF TRACKLINK CASTINGS 67-07 M06-73054

TRACTORS, COATING

TRACTORS
ELECTROPAINTING AT MASSEY-FERGUSON TRACTORS
67-04 M12-66720
TRACTORS, MATERIALS
IMPROVING THE QUALITY OF CATERPILLAR CHAIN LINK CASTINGS 67-01 M06-57332
STEEL WITH LOW HARDENABILITY FOR TRACTOR PARTS
67-04 M20-67957
NEW CASE-HARDENABLE 20KHGSVT STEEL
67-04 M20-67959
USE OF LOW-NICKEL AND NICKEL-FREE STEELS FOR HEAVILY STRESSED TRACTOR GEARS
67-04 M20-67960
TRACTORS, WELDING
CO2 WELDING OF A TRACTOR FRAME 67-04 M11-67814
CO2 WELDING OF A TRACTOR CHASSIS
67-06 M11-70314
TRAILERS
USE OF HIGH STRENGTH STEEL IN THE TRAILER INDUSTRY
67-05 M20-69089
TRAILERS, WELDING
A MULTI-ELECTRODE MACHINE FOR SPOT WELDING HATCH COVERS 67-04 M11-67361
DOUBLE ARC WELDING A SEMITRAILER BEAM
67-08 M11-75410
THE TWIN ARC WELDING OF OPEN TOP WAGON SOLE BARS
67-12 M11-82031
TRANSDUCERS
TWO TYPES OF HIGH-TEMPERATURE WELDABLE STRAIN GAGES--NI-CR HALF-BRIDGE FILAMENTS AND PT-W HALF-BRIDGE FILAMENTS 67-10 M19-78777
MECHANICAL FORMING REPLACES ELECTROFORMING
67-11 M07-80676
FLUIDIZED BED EPOXY COAT PROTECTS SONAR
67-12 M12-82382
TRANSDUCERS, MAGNETIC PROPERTIES
METALLIC, SOFT-MAGNETIC MATERIALS FOR ULTRASONIC TRANSDUCERS 67-11 M15-80867
TRANSDUCERS, MATERIALS
A NICKEL-BASE ALLOY 67-05 M20-69233
TRANSFER MACHINES
TRIMMING AT THE DIECASTING MACHINE AND A NEW DEVICE FOR HANDLING REMOVAL OF CASTINGS
67-06 M06-71096
DIECASTING INSTALLATIONS IN CONNECTION WITH AN INTERCONNECTED AUTOMATIC TRIMMING MACHINE AND TRANSPORT FACILITY 67-06 M06-71097
CYLINDER BLOCK CASTINGS DEFINNED ON TRANSFER MACHINE 67-09 M07-78034
COLD FORMING ON HORIZONTAL MULTI-STATION TRANSFER MACHINES 67-09 M08-77513
TRANSFERRING
SEE HEAT TRANSFER
MASS TRANSFER
MELT TRANSFER
TRANSFORMATIONS /MATERIALS/
SEE ALLOTROPIC TRANSFORMATION
GAMMA TRANSFORMATION
MASSIVE TYPE TRANSFORMATION
PHASE TRANSFORMATIONS
TRANSFORMER STEELS
SEE ELECTRICAL STEELS
TRANSFORMERS
CONTINUOUS CASTING FACILITY--IMPORTANT IN FOIL ROLLERS SERVICE 67-06 M03-71585
THE MANUFACTURE OF STRIP CONDUCTORS FOR POWER TRANSFORMERS. PT. 2 67-06 M17-71414
THE MANUFACTURE OF STRIP CONDUCTORS FOR POWER TRANSFORMERS 67-06 M20-71561
IS 3.25 PER CENT SI ORIENTED CORE STEEL THE ULTIMATE 67-07 M15-73512
A TEXTURED TRANSFORMER STEEL 67-08 M15-74872
TRANSGRANULAR CORROSION
THE CHARACTERISTICS OF TRANSGRANULAR STRESS-CORROSION CRACKING 67-03 M18-65997
TRANSISTORS
SEE ALSO JUNCTION TRANSISTORS
THYRISTORS
RELATION OF DEGREE OF VACUUM DURING EVAPORATION TO THE CLEANLINESS OF THE METAL-SEMICONDUCTOR CONTACT 67-05 M16-68568
MANUFACTURE AND TESTING OF TRANSISTORS
67-06 M16-70234
EVAPORATED SILICON THIN-FILM TRANSISTORS
67-07 M16-73183
EXPERIMENTAL STUDY ON THE OUT-DIFFUSION OF SB FROM GE AND ITS APPLICATION TO TRANSISTORS
67-08 M16-74606
MECHANICAL PROPERTIES OF COPPER CLAD ALUMINUM WIRE. PT. 2. STUDIES ON FABRICATION OF ULTRAFINE WIRE OF ALUMINUM AND ALUMINUM ALLOYS
67-12 M17-83110
TRANSISTORS, DIFFUSION
METALLURGICAL ASPECTS OF THE ALLOY-DIFFUSION METHOD IN TRANSISTOR TECHNOLOGY 67-10 M14-79954
TRANSISTORS, ELECTRICAL PROPERTIES
EFFECTS OF PREOXIDATION TREATMENT ON MOS TRANSISTOR CHARACTERISTICS 67-05 M16-69299
DIELECTRICALLY ISOLATED SILICON WITH A SHARP IMPURITY GRADIENT 67-06 M16-71694
GALLIUM ARSENIDE FETS OUTPERFORM CONVENTIONAL SILICON MOS DEVICES 67-09 M16-76640
TRANSISTORS, FABRICATION
FABRICATION OF TELLURIUM THIN FILM TRANSISTOR
67-09 M16-78184
TRANSISTORS, TRANSPORT PROPERTIES
CHARGE TRANSPORT PHENOMENA IN MOS SYSTEM
67-05 M16-69293
TRANSITION METALS
SEE ALSO CHROMIUM
COBALT
HAFNIUM
IRIDIUM
IRON
MANGANESE
MOLYBDENUM
NICKEL
NIOBIUM
OSMIUM
PALLADIUM
PLATINUM
REFRACTORY METALS
RHENIUM
RHODIUM
RUTHENIUM
SCANDIUM
TANTALUM
TECHNETIUM
TITANIUM
TUNGSTEN
VANADIUM
YTTRIUM
ZIRCONIUM
TRANSITION METALS, ALLOYING ADDITIVE
THE EFFECT OF TRANSITION METAL IMPURITIES ON THE RESIDUAL RESISTIVITY OF AL, ZN, IN AND SN
67-03 M15-65687
THEORETICAL PROBLEMS OF MODIFYING ALUMINUM AND ITS ALLOYS 67-06 M14-70930
ON THE HEXAGONAL CRYSTAL STRUCTURE OF IRON ALLOYS WITH TRANSITION METALS 67-06 M14-71867
THE EFFECT OF ALUMINIUM GRAIN SIZE OF INTERACTIONS BETWEEN ELEMENTS ADDED TO THE LIQUID METAL
67-12 M14-82117
TRANSITION METALS, ATOMIC PROPERTIES
CERTAIN CHARACTERISTICS OF INTERMOLECULAR INTERACTION IN ALLOYS OF GROUPS IVA-VIA METALS
67-09 M14-77294
TRANSITION METALS, ATOMIC STRUCTURE
DETERMINATION OF THE NUMBER OF 3D-ELECTRONS IN TRANSITION METALS OF THE IRON GROUP FROM THE COHERENT AND NONCOHERENT SCATTERING OF X RAYS
67-01 M16-57341
THE ELECTRONIC STRUCTURES OF TRANSITION AND NOBLE METALS 67-10 M16-78304
TRANSITION METALS, BAND THEORY
COMBINED INTERPOLATION SCHEME FOR TRANSITION AND NOBLE METALS 67-05 M16-69802
TRANSITION METALS, COATING
NEW TECHNIQUE OF CHEMICOTHERMAL TREATMENT OF TRANSITION METALS IN MOLTEN ALUMINUM
67-08 M12-74975
TRANSITION METALS, CORROSION
LIQUIDUS CURVES AND CORROSION OF FE, CR, NI, CO, V, CB, TA, TI, ZR, IN 500 TO 750 C. MERCURY
67-08 M18-76187
TRANSITION METALS, CRYSTAL LATTICES
COMPARING THE STACKING FAULT ENERGY AND ELECTRON STRUCTURE OF A METAL 67-05 M16-68254
COMPARISON OF THE ENERGY OF STACKING FAULTS WITH THE ELECTRON STRUCTURE OF THE METAL
67-07 M13-73483
CRYSTAL STRUCTURE-GROUP NUMBER CORRELATION IN THE FIFTH- AND SIXTH-PERIOD LATTICE TRANSITION METALS AND ALLOYS 67-09 M13-77723
THE LATTICE STABILITY OF THE TRANSITION METALS
67-11 M13-81107
TRANSITION METALS, HEAT TREATMENT
A PRACTICAL VIEW OF DEFORMATION AND

RECRYSTALLIZATION OF METALS 67-05 M14-69550
TRANSITION METALS, MAGNETIC PROPERTIES
ON THE MAGNETIC STRUCTURE OF SOME ALLOYS OF TRANSITION METALS 67-01 M15-57576
LOW-TEMPERATURE PARAMAGNETIC SUSCEPTIBILITY OF TRANSITION METALS WITH A SMALL NUMBER OF D-ELECTRONS 67-02 M15-61921
HYPERFINE MAGNETIC FIELDS AT COBALT AND TIN NUCLEI IN DILUTE ALLOYS 67-11 M15-80190
ON THE MAGNETIC BEHAVIOR OF MOLTEN B-T-ALLOYS 67-12 M15-82049
TRANSITION METALS, MECHANICAL PROPERTIES
IRRADIATION HARDENING AND EMBRITTLEMENT IN BODY-CENTERED CUBIC TRANSITION METALS 67-07 M17-73376
THE INFLUENCE OF VARIOUS PHYSICAL PROPERTIES OF METALS ON THEIR FRICTION AND WEAR BEHAVIOR IN VACUUM 67-07 M17-74054
TRANSITION METALS, OPTICAL PROPERTIES
K-SPECTRUM OF METALLIC CA. CONNECTION BETWEEN ELECTRON STRUCTURE OF CA AND TRANSITION METALS OF THE BEGINNING OF THE FIRST PERIOD 67-04 M15-67914
TRANSITION METALS, OXIDATION
STRUCTURE AND GROWTH OF THIN OXIDE FILMS ON METALS IN CONTACT WITH OXYGEN 67-01 M18-58702
TRANSITION METALS, PHYSICAL PROPERTIES
PROPERTIES OF TRANSITION METALS VIEWED FROM THE POINT OF STABLE ELECTRON CONFIGURATIONS 67-05 M15-68707
PROPERTIES OF TRANSITION METALS FROM THE POINT OF VIEW OF THE CONCEPT OF STABLE ELECTRONIC CONFIGURATIONS 67-12 M15-82683
TRANSITION METALS, POWDER METALLURGY
ELECTRONIC MODELING OF THE SINTERING MECHANISM OF METALLIC AND NONMETALLIC POWDERS 67-08 M09-74934
TRANSITION METALS, REACTIONS /CHEMICAL/
ELECTRON BINDING ENERGIES IN TRANSITION METALS 67-10 M16-79703
TRANSITION METALS, SOLUBILITY
CARBON SOLUBILITY IN LIQUID METALS OF THE SIXTH PEROID 67-08 M15-74323
TRANSITION METALS, SURFACE PROPERTIES
WETTING TRANSITION-ELEMENT NITRIDES WITH FUSED OXIDES AND METALS 67-02 M15-60091
TRANSITION METALS, TERNARY SYSTEMS
EQUIATOMIC TERNARY COMPOUNDS OF URANIUM AND ALUMINIUM WITH GROUP 8 TRANSITION ELEMENTS 67-09 M14-77466
TRANSITION METALS, THERMAL PROPERTIES
REGULARITIES OF THERMAL STABILITY OF OXIDES OF TRANSITION METALS 67-07 M15-72511
REGULARITIES GOVERNING THE THERMAL STABILITY OF OXIDES OF THE TRANSITION METALS 67-11 M15-80897
TRANSITION METALS, THERMODYNAMICS
LOW TEMPERATURE SPECIFIC HEAT OF BCC ALLOYS OF 3D TRANSITION ELEMENTS WITH 20 PER CENT AL 67-07 M15-73630
TRANSITION METALS, TRANSPORT PROPERTIES
HALL EFFECT IN TRANSITION METALS WITH A SMALL NUMBER OF D-ELECTRONS 67-02 M15-61943
TRANSITION METALS, WELDING
ELECTRON BEAM WELDING AS A PRODUCTION TOOL 67-08 M11-75559
TRANSITION POINT
NATURE OF THE A-C TRANSITION IN THE SUPERCONDUCTING SURFACE SHEATH IN PB-2 PER CENT IN 67-06 M16-71793
SUPERCONDUCTIVITY AND ISOTOPE EFFECT IN BE22X COMPOUNDS AND MOLYBDENUM 67-06 M16-71989
EFFECT OF PRESSURE ON MAGNETIC TRANSFORMATIONS IN MANGANESE ARSENIDE 67-07 M15-73706
TRANSMISSION
SEE ALSO CONDUCTION
HEAT TRANSMISSION
DIRECT COMPARISON OF THE PENETRATION OF SOLIDS AND LIQUIDS BY POSITRONS AND ELECTRONS 67-08 M16-75927
TRANSMISSION ELECTRON MICROSCOPY
PREPARATION OF THIN FOILS OF TITANIUM AND TITANIUM ALLOYS FOR TRANSMISSION ELECTRON MICROSCOPY 67-04 M13-66338
CHEMICAL THINNING TECHNIQUE FOR THE PREPARATION OF THIN FOILS FROM BULK SAMPLES OF FERROUS MATERIALS 67-04 M13-67026
DIRECT OBSERVATION OF STRESS ASSOCIATED WITH NITRIDIC PRECIPITATION IN IRON 67-04 M14-67021
ELECTROPOLISHING OF PLATINUM FOILS AT -35 C. FOR TRANSMISSION ELECTRON MICROSCOPY 67-07 M13-72665
A SIMPLE METHOD OF PREPARING THIN METAL FOILS FOR TRANSMISSION ELECTRON MICROSCOPY 67-07 M13-73210
TRANSMISSION ELECTRON MICROSCOPY OF PU-1 WT PER CENT GA 67-07 M13-74240
DETECTION OF SELENIUM CLUSTERING IN GAAS BY TRANSMISSION ELECTRON MICROSCOPY 67-07 M14-72650
THE NATURE AND ANNEALING BEHAVIOR OF IRRADIATION DAMAGE IN MOLYBDENUM 67-07 M14-73383
TRANSMISSION ELECTRON MICROSCOPIC OBSERVATION OF LOW CARBON STEELS DURING CREEP 67-07 M17-72982
DIRECT OBSERVATION OF THE MULTIPLICATION OF DISLOCATIONS IN THIN FOILS OF ALUMINIUM-BASED ALLOYS 67-08 M13-74420
THE MICROSTRUCTURE OF CAST FOILS OF ALUMINUM OBSERVED BY TRANSMISSION ELECTRON MICROSCOPY 67-08 M13-75142
THE OBSERVATION OF THICK SPECIMENS BY HIGH VOLTAGE ELECTRON MICROSCOPY. EXPERIMENTS WITH MOLYBDENITE FILMS AT 50-500 KV 67-08 M13-75934
TRANSMISSION ELECTRON MICROSCOPY STUDIES ON PRECIPITATION IN AL-AG-CU ALLOYS 67-08 M14-75320
DETERMINING DISLOCATION DENSITIES BY TRANSMISSION ELECTRON MICROSCOPY 67-09 M13-77070
TRANSMISSION ELECTRON MICROSCOPE STUDY OF THE MARTENSITE OF TITANIUM-3 WT PER CENT IRON ALLOY 67-09 M13-78242
EXPERIMENTAL TECHNIQUES USED TO STUDY LATTICE DEFECTS IN AL-MG ALLOYS 67-09 M13-78291
ELECTRON MICROSCOPE OBSERVATIONS ON THE OXIDATION OF ZIRCONIUM. A CONTRIBUTION TO THE CUBIC KINETIC THEORY 67-09 M14-76513
A NEW METHOD OF THINNING MASSIVE ALUMINUM OR ALUMINUM ALLOY SPECIMENS FOR TRANSMISSION ELECTRON MICROSCOPY 67-10 M13-78859
DIFFRACTION CONTRAST AT PLANAR INTERFACES OF LARGE COHERENT PRECIPITATES 67-10 M13-78913
IMMERSED DOUBLE-JET TECHNIQUE FOR ELECTROTHINNING TUNGSTEN FOR TRANSMISSION ELECTRON MICROSCOPY 67-10 M13-80000
A STUDY OF TENSILE-DEFORMED ALUMINUM BY TRANSMISSION ELECTRON MICROSCOPY 67-10 M14-79288
A UNIVERSAL ELECTROLYTIC THINNING APPARATUS TO PRODUCE METAL FOILS FOR ELECTRON MICROSCOPY 67-11 M13-80702
TRANSMISSION ELECTRON MICROSCOPE STUDY OF THE STRUCTURE OF HIGH TEMPERATURE BETA-PHASE IN CU-SN ALLOY 67-11 M13-80809
ORIENTATION RELATIONSHIP AND COHERENCY BETWEEN MO2C AND THE FERRITE MATRIX 67-11 M13-81144
ELECTRON-MICROSCOPIC INVESTIGATION OF INITIAL STAGES IN THE DECOMPOSITION OF SUPERSATURATED CU-2 PER CENT BE SOLID SOLUTION 67-11 M14-81045
A TRANSMISSION ELECTRON MICROSCOPIC STUDY OF THE EARLY STAGE OF RECRYSTALLIZATION IN PURE IRON 67-11 M14-81061
ELECTRON MICROSCOPIC STUDY OF SUBSTRUCTURE DEVELOPED AROUND FATIGUE CRACKS 67-11 M17-81066
FOREST DISLOCATIONS IN SILVER SINGLE CRYSTALS 67-12 M13-82553
TRANSMISSION GEARS
SEE GEARS
TRANSMISSIONS /AUTOMOTIVE/
TRANSMISSION LINES
SEE ALSO COAXIAL CABLES
COMMUNICATION CABLES
POWER CABLES
SUBMARINE CABLES
WAVEGUIDES
TRANSMISSION LINES, CLADDING
A HYDRAULIC PRESS FOR CLADDING A STEEL WIRE WITH AN ALUMINUM SHEATH 67-12 M12-82067
TRANSMISSION LINES, MECHANICAL PROPERTIES
MEASURING CREEP IN TRANSMISSION LINES 67-10 M17-79496
PROBLEMS AND NOTES ON THE MANUFACTURE OF STEEL WIRES FOR ACSR OVERHEAD TRANSMISSION LINES

67-12 M01-82652
TRANSMISSION LINES, STRUCTURAL MATERIALS
INFLUENCE OF SMALL ADDITIONS OF CE, FE, NI AND CO ON MECHANICAL PROPERTIES AND ELECTRICAL CONDUCTIVITY OF ALUMINUM 67-02 M17-59770
INFLUENCE OF SMALL AMOUNTS OF CERIUM, IRON, NICKEL, AND COBALT ON THE MECHANICAL PROPERTIES AND ELECTRICAL CONDUCTIVITY OF ALUMINUM 67-08 M17-76128
TRANSMISSION TOWERS, CORROSION
TEST ON PROTECTIVE COATINGS FOR POWER TRANSMISSION TOWERS. PT. 3 67-08 M18-76250
TRANSMISSIONS /AUTOMOTIVE/
SLIM TWO-PIECE GEARS FABRICATED BY BRAZING 67-05 M11-68306
AUTOMOTIVE APPLICATIONS OUTSIDE THE ENGINE 67-08 M20-74828
TRANSMISSIONS /AUTOMOTIVE/, CASTINGS
GENERAL MOTORS BUILDS FOUNDRY OF TOMORROW 67-05 M20-68686
TRANSMISSIONS /AUTOMOTIVE/, WELDING
HIGH SPEED WELDER FOR TORQUE CONVERTER TRANSMISSIONS 67-05 M12-68666
TRANSMISSIVITY
OPTICAL PROPERTIES OF THIN FILMS OF INDIUM 67-03 M15-65188
OPTICAL PROPERTIES OF IN THIN FILMS 67-04 M15-67729
SUITABILITY OF MAGNESIUM FLUORIDE, CRYOLITE AND FLUORITE AS ANTIREFLECTION MATERIALS FOR INFRARED RADIATIONS 67-08 M15-75566
TRANSMITTANCE
SEE OPACITY
TRANSMITTING
SEE TRANSMISSION
TRANSPORT PROPERTIES
STUDIES ON ELECTRODEPOSITION OF COPPER. PT. 1. FARADAIC IMPEDANCE IN THE VICINITY OF THE EQUILIBRIUM POTENTIAL 67-01 M12-58546
ELECTROTRANSPORT OF CARBON, NITROGEN, AND OXYGEN IN THORIUM 67-01 M14-57416
INVESTIGATION OF SOME ELECTRICAL PROPERTIES AND PREPARATION OF ZINC ARSENIDE SINGLE CRYSTALS 67-01 M15-58040
QUANTUM SIZE EFFECT IN THIN BISMUTH FILMS 67-01 M15-58736
OSCILLATORY PHOTOCONDUCTIVITY IN INSB 67-01 M15-58756
BURSTEIN SHIFT OF THE FUNDAMENTAL ABSORPTION EDGE OF TIN TELLURIDE 67-01 M16-57443
SURFACE CONDUCTIVITY ON DEGENERATE GERMANIUM 67-01 M16-57553
SEMICONDUCTOR PROPERTIES OF BORON 67-01 M16-58414
SURFACE SELF-DIFFUSION AT HIGH TEMPERATURES 67-02 M14-59103
SELF-DIFFUSION ON NEARLY PURE METALLIC SURFACES 67-02 M14-59104
THE MECHANISM OF IONIC MOBILITY IN MOLTEN METALS 67-02 M15-59932
HIGH-TEMPERATURE HALL EFFECT IN GASB 67-02 M15-61692
STUDY OF GALVANO- AND THERMOMAGNETIC PHENOMENA IN SEMICONDUCTORS BY A NONSTATIONARY METHOD 67-03 M15-65069
THE WIEDEMANN-FRANZ RATIO OF METALLIC URANIUM AT ELEVATED TEMPERATURES 67-03 M15-65869
ELECTRICAL PROPERTIES OF TELLURIUM DOPED WITH IODINE 67-03 M16-65459
DEPENDENCE OF THE TRANSVERSE HALL EFFECT IN P-TYPE SILICON ON THE MAGNETIC FIELD INTENSITY 67-03 M16-65634
THERMOELECTRIC POWER OF VANADIUM DIOXIDE WHISKERS 67-03 M16-65645
SOLID-STATE ELECTRONICS PT. 2. PROPERTIES OF SEMICONDUCTORS 67-03 M16-65669
PROPERTIES OF MERCURY TELLURIDE THIN FILMS 67-03 M16-65735
EFFECTS OF OXYGEN AND DOPANT ON LIFE-TIME IN NEUTRON-IRRADIATED SILICON 67-03 M16-65743
THE INFLUENCE OF COPPER IONS ON FAST SURFACE STATES OF GERMANIUM 67-03 M16-65804
FIELD EFFECT MEASUREMENTS ON THE A AND B --111-- SURFACES OF INDIUM ANTIMONIDE 67-03 M16-65805
THERMOTRANSPORT OF OXYGEN IN BETA ZIRCONIUM 67-04 M15-66055
THE SYNTHESIS OF LEAD TELLURIDE WITH THE AID OF CHEMICAL REACTIONS 67-04 M16-66031
IONIZATION ENERGY AND IMPURITY BAND CONDUCTION OF SHALLOW DONORS IN N-GALLIUM ARSENIDE 67-04 M16-66510
THE PHYSICS OF SEMICONDUCTORS, PROCEEDINGS OF THE INTERNATIONAL CONFERENCE 67-04 M16-66738
EFFECT OF CARRIER-CARRIER SCATTERING ON THE HALL EFFECT IN GRAPHITE 67-04 M16-66763
GALVANOMAGNETIC PROPERTIES OF SURFACE LAYERS IN INDIUM ARSENIDE 67-04 M16-66764
GALVANOMAGNETIC EFFECTS AND BAND STRUCTURE OF CDSB 67-04 M16-66765
THE STRUCTURE OF THE CONDUCTION BAND AND THE ANISOTROPY OF THE ELECTRON SCATTERING IN N-GAAS 67-04 M16-66766
LOW TEMPERATURE TRANSPORT EFFECTS IN N-TYPE GASB AT HIGH MAGNETIC FIELDS 67-04 M16-66767
MAGNETORESISTANCE STUDIES OF HGTE AT LOW TEMPERATURES 67-04 M16-66769
THE FERMI SURFACE OF TIN TELLURIDE--SHUBNIKOV-DE HAAS EFFECT 67-04 M16-66771
MECHANISM OF THE GUNN EFFECT 67-04 M16-66780
NEGATIVE MAGNETORESISTANCE IN THE METALLIC IMPURITY CONDUCTION 67-04 M16-66783
AN EXPERIMENTAL INVESTIGATION OF THE HALL EFFECT IN THE HOPPING REGION 67-04 M16-66784
MAGNETORESISTANCE OF HEAVILY DOPED N-TYPE SILICON 67-04 M16-66785
TRANSPORT PROPERTIES AND LOCALIZED SPINS IN N-TYPE INSB 67-04 M16-66786
SHUBNIKOV-DE HAAS INVESTIGATIONS OF THE BI-SB --0-30 PER CENT-- SYSTEM 67-04 M16-66794
GALVANOMAGNETIC STUDIES OF SN-DOPED BI 67-04 M16-66795
ELECTRON TRANSPORT PHENOMENA IN THIN FILMS OF BISMUTH 67-04 M16-66796
ON THE ELECTRICAL PROPERTIES OF THE ZNGEAS2 SEMICONDUCTOR COMPOUND 67-04 M16-67107
HIGH FREQUENCY PROPERTIES OF INSB UNDER A MAGNETIC FIELD 67-04 M16-67425
PREPARATION AND PROPERTIES OF EPITAXIAL GALLIUM PHOSPHIDE 67-05 M14-68628
INVESTIGATION OF ELECTRIC TRANSPORT AND DIFFUSION IN INDIUM-ANTIMONY SYSTEMS 67-05 M15-69260
ELECTROLYSIS AND ION TRANSPORT MECHANISM IN URANIUM DIOXIDE 67-05 M15-69295
THERMOELECTRICAL PROPERTIES OF TIN THIN FILMS 67-05 M15-69670
CONDUCTION ELECTRONS IN SOLIDS 67-05 M16-68992
CHARGE TRANSPORT PHENOMENA IN MOS SYSTEM 67-05 M16-69293
DIFFUSION AND ELECTRICAL TRANSPORT OF ZINC IN INDIUM ARSENIDE 67-05 M16-69383
EFFECT OF TEMPERATURE ON THE HALL COEFFICIENT OF INDIUM AND INDIUM-RICH SOLID SOLUTIONS 67-05 M16-69753
MAGNETORESISTANCE OF UNIAXIALLY STRESSED GERMANIUM IN IMPURITY BAND CONDUCTION REGION 67-05 M16-69754
DIFFUSION OF INDIUM OVER THE SURFACE OF GERMANIUM 67-06 M14-71831
DIFFUSION AND ELECTROTRANSPORT OF SOLUTES IN MOLTEN GERMANIUM--IMPLICATIONS FOR PRODUCING P-N JUNCTIONS 67-06 M15-69927
MASS TRANSFER IN TWO IRON-NICKEL ALLOYS 67-06 M15-70365
LUX-AMPERE CHARACTERISTICS OF THE ANOMALOUS PHOTOCONDUCTIVITY OF AMORPHOUS SELENIUM UNDER CONTINUOUS ELLUMINATION 67-06 M15-70523
CONCERNING NEGATIVE PHOTOCONDUCTIVITY IN GERMANIUM 67-06 M15-70527
ELECTRICAL PROPERTIES OF BORON IN THE TEMPERATURE RANGE 300-1500 K 67-06 M15-70875
HEAT CONDUCTIVITY OF SILICON CARBIDE AT HIGH TEMPERATURES 67-06 M15-71465
ON THE NATURE OF HEAT CONDUCTIVITY OF CARBIDES OF SOME TRANSITION METALS OF GROUPS 4 AND 5 67-06 M15-71470
TRANSPORT OF CARBON IN SOLID SOLUTIONS WITH IRON GROUP METALS BASE 67-06 M15-72372
ELECTRICAL AND OPTICAL PROPERTIES OF AMORPHOUS GERMANIUM 67-06 M16-69921
THE THERMAL PRODUCTION OF ACCEPTORS IN INSB 67-06 M16-69960
ATOM MOTION IN LIQUID ALLOYS IN THE PRESENCE OF AN ELECTRIC FIELD 67-06 M16-70573
HALL EFFECT IN SEMICONDUCTORS WITH TWO TYPES OF CARRIER 67-06 M16-70868
NEGATIVE LONGITUDINAL MAGNETORESISTANCE OF N-TYPE INAS 67-06 M16-70874

ELECTRIC PROPERTIES OF P-TYPE GERMANIUM STRONGLY DOPED WITH BERYLLIUM 67-06 M16-71924
THE PREPARATION AND PROPERTIES OF EPITAXIAL GALLIUM ARSENIDE 67-07 M14-72914
RECENT PROGRESS IN THE PREPARATION OF VERY PURE GALLIUM ARSENIDE 67-07 M14-72921
ORDINARY TRANSPORT PROPERTIES OF THE GAMMA PHASE ALLOYS 67-07 M15-72405
MECHANISM OF IONIC MOBILITY IN LIQUID METALS 67-07 M15-72587
PHOTORESPONSE STUDIES OF VAPOR-DEPOSITED MO-SI SYSTEMS 67-07 M15-72631
PHOTOELECTRIC MEASUREMENT OF TUNGSTEN SILICIDE AND N-TYPE SILICON BARRIERS 67-07 M15-72661
NEGATIVE PHOTOCONDUCTIVITY IN GOLD-DOPED SILICON 67-07 M15-72662
INVESTIGATION OF GALVANIC AND THERMOMAGNETIC PHENOMENA IN SEMICONDUCTORS BY A TRANSIENT METHOD 67-07 M15-72968
PREPARATION AND CHARACTERISTICS OF GALLIUM ARSENIDE 67-07 M16-72916
HOT-CARRIER D-C CONDUCTION IN ELEMENTAL SEMICONDUCTORS 67-07 M16-73181
EVAPORATED SILICON THIN-FILM TRANSISTORS 67-07 M16-73183
SOME KEY FEATURES OF 3-V COMPOUNDS 67-07 M16-74202
ELECTRICAL RESISTANCE AND ELECTRICAL TRANSPORT IN THE BI-ZN SYSTEM AT 700 C 67-08 M15-74644
ELECTRICAL CONDUCTION IN THIN METAL FILMS 67-08 M15-74716
ELECTRONIC CONDUCTION PROPERTIES OF DIELECTRIC THIN FILMS 67-08 M15-74717
BALLISTIC MEAN-FREE PATH MEASUREMENTS OF HOT ELECTRONS IN METAL FILMS 67-08 M15-74719
THIN FILM SEMICONDUCTORS 67-08 M15-75159
INTERNATIONAL ENCYCLOPEDIA OF PHYSICAL CHEMISTRY AND CHEMICAL PHYSICS--TOPIC 11. THE IDEAL CRYSTALLINE STATE. V. 2. ELEMENTARY THEORY OF METALS 67-09 M01-77496
ELECTRONIC TRANSPORT IN TUNGSTEN 67-09 M15-77103
ELECTRIC TRANSPORT IN MOLYBDENUM-BASE ALLOYS 67-09 M15-77278
THERMAL TRANSPORT IN TUNGSTEN 67-09 M15-77843
NEUTRON DIFFRACTION AND ELECTRICAL TRANSPORT PROPERTIES OF CUCR2SE4 67-09 M16-77013
ION BOMBARDMENT OF SOLIDS 67-09 M16-77544
GAAS-INSB GRADED-GAP HETEROJUNCTION 67-09 M16-78062
DIFFUSION AND ELECTRIC TRANSPORT OF INDIUM AND SILVER ALONG DISLOCATIONS IN SILICON 67-10 M14-79474
ELECTRICAL TRANSFER OF SILVER IN POLYCRYSTALS OF FIRST GROUP NOBLE METALS 67-10 M15-78353
THE THERMOELECTRIC EFFICIENCY OF CDSB AND SOLID SOLUTIONS OF ZNXCB1-XSB WITH HOLE CONDUCTIVITY 67-10 M15-79107
OBTAINING A FALLING VOLTAGE-CURRENT CHARACTERISTIC IN SEMICONDUCTORS IN CROSSED ELECTRIC AND MAGNETIC FIELDS BY SHORT CIRCUITING THE TRANSVERSE HALL FIELD 67-10 M15-79465
ELECTRICAL AND TRANSPORT PROPERTIES OF CU IN INAS 67-10 M15-79968
ELECTRONIC STRUCTURE AND PROPERTIES OF PALLADIUM AND ITS ALLOYS 67-10 M16-78723
FLUX NONFLOW IN THE FLUX-FLOW REGIME IN BULK TIN 67-10 M16-78731
NOISE IN CU-GAAS 67-10 M16-79367
ANOMALOUS SKIN EFFECT IN TIN AND INDIUM 67-10 M16-79412
THE CONTROLLING STAGE OF CARBON TRANSPORT IN THE CARBON STEEL-SODIUM MELT-CHROMIUM-NICKEL STEEL SYSTEM 67-11 M14-80581
NONOHMIC AND OSCILLATORY BEHAVIORS AT STRONG ELECTRIC FIELD IN TELLURIUM 67-11 M15-80815
METHOD OF DETERMINING THE ELECTRICAL MOBILITIES OF IMPURITIES IN LIQUID METALS AND THE MOBILITY OF BISMUTH IN LIQUID GALLIUM 67-11 M15-81208
HARTREE SELF-CONSISTENT FIELD OF SEMICONDUCTOR PBSE 67-11 M16-80155
IMPROVEMENT OF MINORITY CARRIER LIFETIME IN SILICON DIODES 67-11 M16-80839
TRANSPORT PHENOMENA IN THE SIMPLE METALS 67-11 M16-81393
THERMOELECTRIC AND THERMOMAGNETIC EFFECTS AND APPLICATIONS 67-12 M01-82986
EFFECT OF ELECTRICAL FIELD ON INTERCRYSTALLINE DIFFUSION IN GROUP 1 NOBLE METALS 67-12 M14-82331
NATURE OF THE THERMAL CONDUCTIVITY IN THE CARBIDES OF SOME TRANSITION METALS OF GROUPS 4 AND 5 67-12 M15-82791

TRANSPORT PROPERTIES, ALLOYING EFFECTS
BEHAVIOR OF PHOSPHORUS IN CADMIUM TELLURIDE 67-05 M16-69399

TRANSPORT PROPERTIES, ATMOSPHERES
THE EFFECT OF VARIATIONS IN THE CONCENTRATION OF ATMOSPHERIC CONSTITUENTS ON THE ELECTRICAL CONDUCTIVITY OF ZINC OXIDE 67-05 M15-68276

TRANSPORT PROPERTIES, COMPOSITION EFFECTS
PHYSICAL AND ELECTRONIC PROPERTIES OF CD3AS2-ZNSNAS2 ALLOYS 67-04 M15-67578

TRANSPORT PROPERTIES, CRYSTAL LATTICES
RELATIONS BETWEEN ELECTRICAL NOISE AND DISLOCATIONS IN SILICON 67-07 M15-72633

TRANSPORT PROPERTIES, ELECTRIC FIELDS
HOT CARRIER CONCENTRATION IN NI-TYPE GERMANIUM--A SUGGESTED EXPERIMENT 67-02 M15-60772

TRANSPORT PROPERTIES, HEATING EFFECTS
ELECTROTRANSPORT IN ALUMINIUM 67-02 M15-61894
PREPARATION OF CDS AND CD --S, SE-- EVAPORATED LAYERS AND THEIR PHOTOELECTRIC PROPERTIES 67-05 M15-69881

TRANSPORT PROPERTIES, IMPURITY EFFECTS
MAGNETORESISTANCE OF N-TYPE GERMANIUM IN THE PHONON-ASSISTED HOPPING CONDUCTION RANGE AT HIGH MAGNETIC FIELDS 67-02 M15-60771
CONDUCTION BAND OF GASB 67-02 M15-61693
GALVANOMAGNETIC STUDIES OF SN-DOPED BI. PT. 1. POSITIVE FERMI ENERGIES 67-05 M15-69815
INFRARED QUENCHING OF THE IMPURITY PHOTOCONDUCTIVITY IN CADMIUM SULFIDE 67-06 M15-70522

TRANSPORT PROPERTIES, PRESSURE EFFECTS
THE EFFECT OF HYDROSTATIC PRESSURE ON THE TRANSPORT PROPERTIES OF INSB 67-04 M16-67028
PRESSURE EFFECTS ON CHARGE TRANSPORT IN NICKEL AND CHROMIUM OXIDES 67-09 M16-77443

TRANSPORT PROPERTIES, RADIATION EFFECTS
MODIFICATIONS OF THE DENSITY AND MOBILITY OF MAJOR CARRIERS IN N-TYPE GERMANIUM BOMBARDED BY PROTONS OF 600 MVT 67-02 M16-60171
STUDY OF N- AND P-TYPE SILICON EXPOSED TO HIGHLY ENERGETIC RADIATION 67-03 M16-65741
NEUTRON-INDUCED TYPE CHANGES IN P-TYPE SILICON 67-11 M16-81691

TRANSPORT PROPERTIES, STRESS EFFECTS
HALL EFFECT VOLTAGE REVERSAL IN SHOCK-LOADED P-TYPE --100-- GERMANIUM 67-06 M16-70086
GALVANOMAGNETIC AND THERMOMAGNETIC EFFECTS IN STRAINED N-GE 67-06 M16-70504
ELASTOGALVANOMAGNETIC EFFECTS IN N-TYPE GE 67-06 M16-70505

TRANSPORT PROPERTIES, TEMPERATURE EFFECTS
SOME TRANSPORT PROPERTIES OF CONDUCTION ELECTRONS IN N-TYPE CDS 67-02 M15-59470
ELECTRICAL PROPERTIES OF ALPHA-IN2SE3 67-02 M15-59480
RESISTANCE ANOMALY AND NEGATIVE MAGNETORESISTANCE IN N-TYPE INSB AT VERY LOW TEMPERATURES 67-05 M15-69820
ELECTRO- AND THERMOTRANSPORT IN IRON 67-06 M15-70426
ELECTRICAL PROPERTIES OF BETA-AG2TE AND BETA-AG2SE FROM 4.2 TO 300 K 67-07 M15-72648
ELECTROTRANSPORT AND EFFECTIVE SELF-DIFFUSION IN PURE LIQUID GALLIUM METAL 67-07 M15-72838

TRANSPORTATION
SEE GAS PIPELINES
PETROLEUM PIPELINES
PIPELINES
WATER PIPELINES

TRANSURANIUM METALS
SEE AMERICIUM
BERKELIUM
CALIFORNIUM
CURIUM
NEPTUNIUM
PLUTONIUM

TRANSVERSE WAVES
SEE ALSO BREMSSTRAHLUNG
ELECTROMAGNETIC WAVES
GAMMA RAYS
INFRARED RADIATION
MICROWAVES
POLARIZED LIGHT
THERMAL RADIATION

TRANSVERSE WAVES
X RAYS
DISPERSION OF TRANSVERSE SOUND IN SUPERCONDUCTORS 67-01 M16-57962
ATTENUATION OF TRANSVERSE ULTRASOUND IN COPPER 67-09 M16-77160
TRAVELING WAVE TUBES
HIGH GRADE CERAMICS FOR MICROWAVE AND OTHER APPLICATIONS 67-03 M20-65715
TREPANNING
PRECISION FINISHING OF FERRITE AND CERAMIC MAGNETIC COMPONENTS 67-07 M08-73830
TRIAXIAL STRESS
SEE AXIAL STRESS
TRIMMING
PRESS TRIMMING DIECASTINGS 67-05 M08-69796
TRIMMING AT THE DIECASTING MACHINE AND A NEW DEVICE FOR HANDLING REMOVAL OF CASTINGS 67-06 M06-71096
DIECASTING INSTALLATIONS IN CONNECTION WITH AN INTERCONNECTED AUTOMATIC TRIMMING MACHINE AND TRANSPORT FACILITY 67-06 M06-71097
TRIMMING OF TITANIUM MADE EASY 67-11 M08-81193
TRIODES, COATING
SOME APPLICATIONS OF TRIODE SPUTTERING TO INTEGRATED CIRCUITS
CIRCUITS 67-08 M12-75602
TRITIUM, DIFFUSION
THE MOBILITY OF TRITIUM IN SILVER AND ALUMINUM AFTER ION BOMBARDMENT 67-12 M16-82057
TROUGHS, SERVICE TIME
LINING SLAG LAUNDERS WITH CARBON BLOCKS 67-09 M04-77036
TRUCKS
SEE MOTOR TRUCKS
TRUNNIONS
SEE AXLES
TTT CURVES
INFLUENCE OF AUSTENITIZING TEMPERATURE ON STABILITY OF SUPERCOOLED AUSTENITE IN REINFORCING STEELS 67-04 M10-66365
NATURE OF THE CHANGE IN COOLING RATES IN DIFFERENT POINTS IN THE CROSS-SECTION OF BILLETS 67-04 M14-66701
TRANSFORMATION OF AUSTENITE DURING CONTINUOUS COOLING 67-04 M14-67615
SURFACE PHENOMENA OBSERVED WHILE STUDYING THE METALLOGRAPHIC STRUCTURE OF ALLOY STEELS AT HIGH TEMPERATURES 67-04 M14-67878
EFFECT OF COOLING RATE ON THE STRUCTURE AND PROPERTIES OF ST. 3 STEEL 67-05 M10-68332
KINETICS OF THE INTERMEDIATE TRANSFORMATION IN CHROMIUM-NICKEL-MANGANESE STEELS 67-05 M14-68255
DECOMPOSITION OF GAMMA PHASE IN URANIUM ALLOYS CONTAINING 8, 10.8, AND 14.3 WT PER CENT MOLYBDENUM 67-05 M14-68722
EFFECT OF HOT PLASTIC DEFORMATION ON THE KINETICS OF ISOTHERMAL TRANSFORMATION OF AUSTENITE 67-05 M14-69668
EXPERIMENTAL OBSERVATION OF THE INTERMEDIATE MU-PHASE IN CU-AL BETA ALLOYS 67-05 M14-69869
HEAT TREATMENT OF LOW-CARBON STEELS 67-06 M10-71933
MARTENSITIC TRANSFORMATION IN MEDIUM- AND LOW-ALLOY TOOL STEEL 67-06 M14-70288
THERMOGRAPHIC DETERMINATION OF THE CARBON EQUIVALENT OF HYPOEUTECTOID CAST IRON 67-06 M14-70295
EFFECTS OF IDENTICAL COOLING CONDITIONS ON THE STRUCTURE AND PROPERTIES OF STEEL BLANKS WITH DIFFERENT DIMENSIONS 67-06 M14-71110
INTERRELATION OF ISOTHERMAL AND CONTINUOUS-COOLING HEAT TREATMENTS OF LOW-ALLOY STEELS AND THEIR PRACTICAL SIGNIFICANCE 67-06 M14-71934
KINETICS OF THE DECOMPOSITION OF AUSTENITE AND FORMATION OF MICROSTRUCTURE OF STEEL IN THE BAINITE REGION 67-06 M14-72377
EFFECT OF COOLING RATE ON STRUCTURE AND PROPERTIES OF ST. 3 STEEL 67-07 M10-72860
APPLICATION OF THE CONTINUOUS COOLING TRANSFORMATION DIAGRAM TO THE PRACTICE OF HEAT TREATMENT 67-07 M14-73029
THE PROBLEM OF STABILIZING AUSTENITE 67-08 M14-74343
INFLUENCE OF CARBON IN MAGNICO ALLOYS 67-08 M14-74991
THE BETA TO ALPHA PHASE TRANSFORMATION IN HIGH PURITY PLUTONIUM 67-09 M14-76303
ISOTHERMAL TRANSFORMATIONS IN TITANIUM-MOLYBDENUM ALLOYS 67-09 M14-76562
ISOTHERMAL TRANSFORMATIONS IN HYPOEUTECTIC GRAY IRON BETWEEN THE CRITICAL RANGE AND ROOM TEMPERATURE 67-09 M14-77670
SOME SPECIFIC DATA ON THE USE OF AISI 52100 STEEL FOR TOOLING APPLICATIONS 67-10 M10-79519
HEAT TREATING OF FERRO-TIC C STEEL-BONDED CARBIDE 67-10 M10-79526
CONSTITUTION, TTT CHARACTERISTICS AND HARDENABILITY OF A 0.3 PER CENT STEEL WITH AL ADDITIONS UP TO 2.45 PER CENT 67-10 M13-78334
INFLUENCE OF HYDROGEN ON ISOTHERMAL TRANSFORMATIONS IN VT15 TITANIUM ALLOY 67-10 M14-79140
DECOMPOSITION OF AUSTENITE IN CAST SILICON STEELS AT SUBCRITICAL TEMPERATURES 67-10 M14-79329
THERMOKINETIC DIAGRAM AND COOLING CURVES, PRODUCT STRUCTURE AND PROPERTIES 67-10 M14-79855
INFLUENCE OF THE PARTIAL MARTENSITIC TRANSFORMATION ON THE ISOTHERMAL TRANSFORMATION OF AUSTENITE 67-10 M14-80016
EFFECT OF THE AUSTENITIZATION TEMPERATURE ON THE STABILITY OF SUPERCOOLED AUSTENITE IN REINFORCING STEELS 67-11 M10-80967
TRANSFORMATIONS IN HEAT RESISTANT STEELS, AN ATTEMPT AT AN EQUILIBRIUM REPRESENTATION IN THE CARBIDE PHASES 67-11 M14-80334
THE CONTINUOUS COOLING TRANSFORMATION OF WELDABLE HIGH-STRENGTH STEELS 67-12 M14-81745
ISOTHERMAL TRANSFORMATION DIAGRAMS OF NICKEL ALLOY STEELS 67-12 M14-81809
STRUCTURAL TRANSFORMATIONS IN KHN77TYUR NICKEL ALLOY UNDER PROLONGED HEATING 67-12 M14-81837
ISOTHERMAL MARTENSITE FORMATION IN IRON-MANGANESE-CARBON ALLOYS 67-12 M14-83398
TTT CURVES, ALLOYING EFFECTS
THE BETA TO ALPHA PHASE CHANGE IN A URANIUM-PLATINUM-NIOBIUM ALLOY 67-05 M14-69566
TUBE COMPONENTS
SEE GRIDS /TUBE COMPONENTS/
HEATERS /TUBE/
TUBE FITTINGS, FORGING
FITTINGS FORGED ONTO TUBE ENDS 67-04 M07-67769
TUBE FURNACES
SEE METALLURGICAL FURNACES
REGENERATORS
TUBE JOINTS, WELDING
EXPLOSIVE WELDING 67-11 M11-81201
TUBE ROLLING
SEE HOT ROLLING
TUBEMAKING
TUBEMAKING
SEE ALSO PLUG ROLLING
JONES AND LAUGHLIN STEEL CORPORATIONS ALIQUIPPA WORKS 67-01 M04-58503
CONTINUOUS DRAWING OF TUBING 67-01 M07-57261
ANNALYTICAL DETERMINATION OF STRAIN FORCES IN TUBE EXTRUSION 67-01 M07-57316
EXPERIMENTAL RESEARCH INTO METAL-ON-ROLLS PRESSURE AND THE ROLLING MOMENTS IN A REDUCING PULLING MILL IN CONTINUOUS FURNACE-WELDING OF 1/2-2 IN. TUBE 67-01 M07-58135
STUDY OF TUBE DRAWING ON A CONTINUOUS DRAWING MILL 67-01 M07-58185
THE NEW CSR MILL AT REPUBLIC STEELS YOUNGSTOWN PLANT 67-01 M07-58502
FABRICATION OF TUNGSTEN AND TUNGSTEN-25 PER CENT-RHENIUM TUBING 67-01 M07-58584
HIGH-STRENGTH ELECTROWELDED TUBES FOR BUILDING STRUCTURES 67-01 M11-58281
STUDY OF TUBULAR BILLETS MADE OF 38KHA STEEL 67-02 M04-59851
MAKING TUNGSTEN-BEARING STEEL FOR THE PRODUCTION OF HIGH-STRENGTH TUBES 67-02 M04-61956
MELTING AND WORKING GOLD ALLOYS 67-02 M06-58915
THE PRODUCTION OF TUBES FROM CONTINUOUSLY CAST MATERIAL 67-02 M07-59134
STAINLESS STEEL EXTRUSION ELIMINATES THERMAL DISTORTION AND CRACKING 67-02 M07-59200
TOOL FOR TUBE EXTRUSION 67-02 M07-59679
EXTRUSION OF STEEL-COPPER BIMETAL TUBES 67-02 M07-59698
SLIP IN CROSS-HELICAL ROLLING. PT. 1 67-02 M07-60065
WHEN YOU NEED 3 3/4 MILE LENGTHS OF TUBING, CHASE BRASS IS READY 67-02 M07-60624
MATHEMATICAL MODELING OF TUBE PRODUCTION 67-02 M07-61620

THE EXTRUSION OF COPPER AND ALLOYS FOR TUBE MANUFACTURE 67-02 M07-61652
COMPUTERS CONTROL TUBE ROLLING 67-02 M07-61855
DETERMINING FORCES FOR FORMING SPIRAL-SEAMED TUBES ON CONTINUOUS MILLS 1020 67-02 M07-61873
COLD DRAWING TUBES IN WORK HARDENED STATE 67-02 M07-61874
CHARACTERISTICS AND NEW TRENDS IN THE PRODUCTION OF SEMI-FINISHED PARTS FROM SINTERED ALUMINUM POWDER 67-02 M09-61627
RADIOFREQUENCY WELDING OF TUBES OF AVERAGE DIAMETERS 67-02 M11-59681
BIMETAL TUBES WELDED IN VOLUME 67-02 M11-61856
COPPER TUBE TAKES ONE-PRODUCT ROUTE 67-03 M07-65433
DRAWING NON-FERROUS TUBING ON BLOCKS 67-03 M07-65928
CONTINUOUS STRETCH-REDUCTION PIPE MILL IN OHIO 67-03 M08-65716
MAKING STEEL PIPE BY STRETCH REDUCTION 67-03 M08-65984
FABRICATION AND MECHANICAL PROPERTIES OF SEMIFINISHED BERYLLIUM-CALCIUM PRODUCTS FOR CO2-COOLED REACTORS. PRODUCTION, TRANSFORMATION AND PROPERTIES OF EXTRUDED CAST BERYLLIUM TUBING 67-03 M17-65287
MANUFACTURE OF STEEL FOR BOILER TUBE IN BOF AND QUALITY THEREOF 67-04 M04-67512
STEEL CONTAINING TUNGSTEN MELTED FOR HIGH-TENSILE TUBES 67-04 M04-67774
USE OF 14KHGS OXYGEN-CONVERTER STEEL IN PRODUCTION OF ELECTRICALLY-WELDED PIPES 67-04 M04-68194
RELATIONSHIP BETWEEN PARAMETERS OF PIERCING OPERATION AND QUALITY OF INITIAL TUBE BILLET 67-04 M07-66214
MANUFACTURE OF SEAMLESS TUBES IN A MODERN TUBE PUSH BENCH INSTALLATION 67-04 M07-66326
FORCES ACTING ON THE INSTRUMENT IN TUBE COLD ROLLING 67-04 M07-66615
COMPUTER-CONTROLLED CONTINUOUS TUBE MILL 67-04 M07-66700
COLD DRAWING TUBES IN A WORK-HARDENED CONDITION 67-04 M07-67693
COPPER TUBE PROCESSING MILL IN OHIO 67-04 M07-68129
TWO-SIDED TRIPLE-LAYER WELDING OF SPIRAL-SEAMED TUBES, 1020 MM DIAMETER 67-04 M11-66435
HIGH STRENGTH INDUCTION WELDED TUBES 67-04 M11-67362
FROM STRIP TO GALVANIZED TUBING IN ONE CONTINUOUS OPERATION 67-04 M12-67766
CALCULATING THE FORCES OF FORMING HELICALLY WELDED PIPES ON THE CONTINUOUS 1020 MILLS 67-04 M17-67692
ROLLING TUBES ON A KHPTR MILL WITH A TWO-ROW SEPARATOR 67-05 M07-68553
A NEW TUBE-PIERCING TECHNIQUE 67-05 M07-68633
THREE-ROLL PIERCER IMPROVES TUBE QUALITY 67-05 M07-68935
A MECHANIZED METHOD OF EXPANDING TUBES WITH AUTOMATIC QUALITY CONTROL 67-05 M07-69044
A NEW LUBRICANT AND PROTECTIVE AGENT FOR USE ON STEEL ROD AND TUBE EXTRUSION PRESSES 67-05 M07-69432
THREE-ROLL PIERCER DEVELOPED BY TI 67-05 M07-69435
THREE ROLL PIERCER MAKES DIRECT ROLLING OF CONTINUOUSLY CAST BILLET POSSIBLE 67-05 M07-69594
ON THE THEORY OF THE HYDROEXTRUSION OF BRITTLE METALS 67-05 M07-69664
IMPROVING THE ROLLING TECHNOLOGY AND THE CONSTRUCTION OF PLUG MILLS ON INSTALLATIONS WITH AN AUTOMATIC MILL 67-05 M07-69693
PRODUCING TUBES FROM EI711 STEEL 67-05 M07-69694
AUTOMATION TURNS TUBING TO CORES 67-05 M08-68482
PRODUCING TUBES ON A 72-219 ELECTROWELDING UNIT 67-05 M11-68329
IMPROVING THE TECHNOLOGY OF WELDING AND REDUCING THIN-WALLED GAS PIPES ON CONTINUOUS FURNACE BUTT WELDING MILLS 67-05 M11-68552
NEW ELECTRIC ARC FURNACE INITIATES SEMI-CONTINUOUS CASTING, EXTRUDING AND DRAWING OF COPPER TUBING AT HALSTEADS WYNNE PLANT 67-06 M03-71317
INFLUENCE OF THE INGOT GEOMETRY ON THE QUALITY OF TUBULAR BILLETS OF 12KH11V2MF STEEL 67-06 M06-70479
NEW TUBEMAKING TECHNIQUE--UK WORLD LEAD 67-06 M07-70021
APPARATUS FOR TUBE ROLLING 67-06 M07-70149
DETERMINING ABSOLUTE STRAINS IN MANDREL-FREE DRAWING OF TUBES 67-06 M07-70283
TUBING ZIPS THROUGH PUSH PRESS 67-06 M07-70499
BLANKING-OFF REFORMER TUBES DURING PLANT OPERATION 67-06 M07-70540
ROLL-PASS DESIGN OF ROLLS IN A CONTINUOUS MANDREL MILL WITH GROUP DRIVE 67-06 M07-70747
EXPERIMENTAL INVESTIGATION OF THE SPECIFIC PRESSURE DURING PILGER MILL ROLLING OF PIPES 67-06 M07-70901
FORCE PATTERN DURING HOT ROLLING OF ALUMINUM ALLOY TUBES 67-06 M07-71356
MANUFACTURE OF SEAMLESS STEEL PIPE AND TUBING 67-06 M07-72138
MANUFACTURE OF WELDED STEEL PIPE 67-06 M07-72139
THREE-ROLL PIERCING IN TUBE MAKING 67-06 M07-72183
STUDY OF PROCESS OF MANUFACTURE OF 13 PER CENT CHROMIUM STAINLESS STEEL TUBE. PT. 1. HOT WORKABILITY 67-06 M07-72393
TOOL FOR PRESSING PIPES 67-06 M08-70148
FIELD-FLANGED WELDED STEEL TUBING SLASHES COST OF CHEM-PLANT PIPING 67-06 M11-71200
THE HIGH-FREQUENCY INDUCTION WELDING OF TUBES 67-06 M11-72059
TRANSMITTER FOR CONTROLLING THE PARAMETERS OF HOT ARTICLES 67-06 M19-70150
RELATIONSHIP BETWEEN ULTRASONIC DEFECT ECHOES FROM LOW-CARBON RIMMED STEEL BILLETS AND THE INTERNAL DEFECTS OF SEAMLESS TUBE. PT. 1. A STUDY OF THE PROPERTIES OF STEEL-TUBE BLANKS AND THE DEFECTS IN FINISHED STEEL TUBE 67-06 M19-72286
INCLUSIONS IN CONTINUOUSLY CAST CARBON STEELS 67-07 M04-73081
CENTRIFUGAL CASTING OF IRON PIPES INTO METAL MOLDS COATED WITH SAND-RESIN 67-07 M06-74036
ABNORMALITITES IN THE LEADING END OF EXTRUDED STEEL TUBE. PT. 1. RESULTS OF RING TESTS ON 18-8 STAINLESS TUBE 67-07 M07-72439
ROLLING TUBES ON THE KHPTR MILL WITH TWIN SEPARATORS 67-07 M07-72464
AN ASSESSMENT OF A COMBINED ROTARY PIERCING AND ELONGATING PROCESS FOR TUBE MAKING 67-07 M07-72813
MANUFACTURE OF SEAMLESS TUBES IN A MODERN TUBE PUSH BENCH 67-07 M07-72909
THREE ROLL PIERCER FOR BETTER TUBES 67-07 M07-73127
EXTRUSION OF ALUMINUM TUBES AND SECTIONS 67-07 M07-73620
THREE-ROLL PIERCER--NEW SYSTEM OF SEAMLESS STEEL TUBEMAKING 67-07 M07-73621
PRODUCTION OF FINNED TUBES BY ROLLING 67-07 M07-74002
IMPROVING ROLLING TECHNOLOGY AND DESIGN OF THE FINISHING STANDS IN PLANT INCLUDING AUTOMATIC MILLS 67-07 M07-74079
PRODUCTION OF GRADE EI711 STEEL TUBES 67-07 M07-74080
THREE ROLLS IMPROVE QUALITY AND LOWER COST OF SEAMLESS TUBING 67-07 M07-74092
DRAWING TUBES AND BARS ON ONE BENCH 67-07 M07-74154
CONSOLIDATING METAL POWDERS MAGNETICALLY 67-07 M09-73863
IMPROVING THE METHOD OF WELDING AND REDUCING THIN-WALLED GAS AND WATER PIPES ON BENCHES FOR CONTINUOUS FURNACE BUTT WELDING 67-07 M11-72463
THREE PASS SPIRAL WELDS MADE FROM BOTH SIDES IN 1020 MM DIAM PIPES 67-07 M11-72694
PRODUCING TUBES ON ELECTRICAL TUBE-WELDING UNIT 73-219 67-07 M11-72857
WELDING METHODS TO PRODUCE TUBES AND SHAPES. PT. 1 67-07 M11-73710
MACROSTRUCTURE OF PIPES CAST BY THE CENTRIFUGAL METHOD 67-08 M06-76038
EFFECT OF KINEMATIC CHARACTERISTICS ON THE TORSION MOMENT IN COLD ROLLING OF TUBES 67-08 M07-74333
TYPES OF INTERNAL SEAMS ON WHOLLY-DRAWN STEEL TUBES 67-08 M07-74334
THE PRODUCTION OF CLAD HOLLOW BODIES BY HOT EXTRUSION 67-08 M07-75108

MANUFACTURING SEAMLESS STEEL TUBES BY COMBINING EXTRUSION AND WARM REDUCTION RESULTING IN MINIMUM CROPPING LOSS 67-08 M07-75514
HOT PIERCING TUBES BY A THREE-ROLL TECHNIQUE 67-08 M07-75562
FORMATION OF SUB-SURFACE CRACKS DURING HOT ROLLING OF AUSTENITIC GRADE STAINLESS STEEL TUBES 67-08 M07-75727
MANUFACTURING WELDED TUBES OF LOW-ALLOY STEELS 67-08 M11-74374
THE CONVERSION OF EXISTING TUBE WELDING INSTALLATIONS TO HIGH-FREQUENCY INDUCTION WELDING 67-08 M11-75672
STRAIN RATES IN WIRE DRAWING AND TUBE MAKING 67-08 M17-75288
BIG METAL BELLOWS DUCTS FEED SATURNS S-IC BOOSTER 67-08 M20-74733
MANUFACTURING THICK-WALLED LARGE-DIAMETER TUBES OF OKH18N12T STAINLESS STEEL 67-09 M07-76410
STAINLESS STEEL TUBES BY STEWARTS AND LLOYDS 67-09 M07-76458
LUBRICANTS FOR HOT BROACHING OF ROUND BILLETS 67-09 M07-76550
ROLLING OF BIMETALLIC STEEL/COPPER PIPES IN CONTINUOUS PIPE AND TUBE MILLS 67-09 M07-76862
STEEL EXTRUSION USING GLASS AS A LUBRICANT. --UGINE-SEJOURNET PROCESS-- 67-09 M07-77154
VARIATIONS IN STEEL TUBE WALL THICKNESS CAUSED BY TWO-ROLL BARREL TYPE PIERCING MILL 67-09 M07-77331
EXTRUDING INSTALLATIONS FOR THE PRODUCTION OF SEAMLESS STEEL TUBES 67-09 M07-77942
TUBE ROLLING ON STRETCH-REDUCING MILLS 67-09 M07-78037
THE THREE-ROLL DRILLING MACHINE BY TUBES, LTD., GREAT BRITAIN 67-09 M07-78299
APPARATUS WITH ROTATING CONTACT ROLLERS FOR RADIOFREQUENCY WELDING OF PIPES 67-09 M11-76843
AUTOMATIC TEMPERATURE CONTROL DURING INDUCTION WELDING OF PIPES 67-09 M11-76856
PRODUCING TUBES ON INDUCTION WELDING MILLS WITH REDUCTION 67-09 M11-77635
CONTACTLESS WEIGHT DETERMINATION DURING THE ROLLING OF TUBES ACCORDING TO THE PILGER METHOD 67-09 M19-77386
FINNED TUBES 67-09 M20-77547
ECONOMICAL PRODUCTION OF COPPER TUBE 67-10 M03-79494
SELECTING A SUITABLE RANGE OF CAST IRON PIPES FOR CENTRIFUGAL AND SEMICONTINUOUS CASTING 67-10 M06-78883
MATERIAL FLOW IN THE HOLLOW DRAWING OF TUBES 67-10 M07-78590
TUBE DRAWING VIA ULTRASONICS 67-10 M07-78595
INTENSE RESEARCH ACHIEVES BIG ADVANCE IN TUBING 67-10 M07-78772
BETTER STAINLESS TUBE 67-10 M07-78864
EVALUATION OF THE DEFORMATION PROPERTIES WITHOUT RUPTURE OF KH18N10T AND KH18N12M2T --EI448-- STEELS DURING HELICAL CROSS-ROLLING 67-10 M07-78975
PRESSING OF ALUMINUM ALLOY TUBES WITH APPLICATION OF A SHIFTABLE MANDREL 67-10 M07-79042
METAL DEFORMATION IN THE PRODUCTION OF LARGE-DIAMETER ELECTROWELDED TUBES 67-10 M08-78434
RELATION BETWEEN INTERNAL STRESSES AND MECHANICAL PROPERTIES OF BRASS TUBES MADE BY COLD WORKING 67-10 M17-79744
CONTROL OF THE INTERNAL SURFACE CONTINUITY OF FERROMAGNETIC TUBES USING A ROTARY DATA UNIT 67-10 M19-78392
PRESSURE CASTING OF TUBE HOLLOWS 67-11 M06-80421
TECHNOLOGICAL PROPERTIES OF HEAT RESISTANT EP150 TUBE STEEL 67-11 M07-80864
MANUFACTURE OF FINNED TUBE FOR HIGH-PRESSURE GAS SYSTEMS 67-11 M07-81525
POWER PARAMETERS IN ROLLING TUBES ON A SHORT MANDREL 67-11 M07-81655
PRODUCTION OF TUBES IN MILLS WITH INDUCTION WELDING AND REDUCTION 67-11 M11-80923
EXPERIENCE WITH THE WORKABILITY OF THE CONTINUOUS-CAST SEMIPRODUCT 67-12 M04-81928
IMPROVING TUBE QUALITY BY CORRECT GROOVING OF THE PIERCING MILL TOOL 67-12 M07-81873
POSSIBILITIES OF IMPROVING THE PRODUCTIVITY OF COLD ROLLING TUBE MILLS 67-12 M07-81874
ULTRASONICS MAKES BIG IMPACT ON TUBE DRAWING 67-12 M07-82471
TUBE PRODUCTION CAPACITY INCREASED 67-12 M07-83165
WARM PRESSURE SHAPING OF METALS 67-12 M07-83334
USE OF SYNTHETIC ALIPHATIC ACID-BASE LUBRICANTS FOR DRAWING TUBES 67-12 M07-83410
METAL DEFORMATION IN PRODUCTION OF LARGE DIAMETER ELECTRIC-WELDED TUBES 67-12 M07-83432
TUBULAR PRODUCTION IN THE COLD PILGER MACHINE 67-12 M07-83594
PRODUCTION OF WELDED TUBES IN LOW ALLOY STEELS 67-12 M11-82247

TUBEMAKING, AUTOMATION
NEW PRESS EXTRUDES BIG, CLOSE TOLERANCE SHAPES FOR OIL, CHEMICAL, POWER INDUSTRIES 67-08 M07-74731

TUBEMAKING, CRACKING /FRACTURING/
CAUSES FOR CRACK DEFECTS IN HOT ROLLED TUBES OF AUSTENITIC STAINLESS STEELS 67-06 M07-71258

TUBEMAKING, LUBRICATION
DEVICE FOR AUTOMATIC LUBRICANT FEED IN TUBE DRAWING AND ROLLING 67-02 M07-59680
CHOOSING LUBRICANTS FOR HOT PIERCING OF ROUND BILLETS 67-07 M07-73787
EQUIPMENT AND LUBRICATION USED WHEN HOT ROLLING TUBES MADE OF ALLOY AMG6 67-08 M07-75095

TUBEMAKING, STRESSES
ULTIMATE TENSION FORCE IN CONTINUOUS ROLLING OF BILLETS AND TUBES 67-01 M07-57181

TUBEMAKING, ULTRASONICS
ULTRASONICS TAKES ON ANOTHER METALFORMING JOB 67-09 M07-76745

TUBES
SEE ALSO BOILER TUBES
BOURDON TUBES
CONDENSER TUBES
SOME CURRENT DEVELOPMENTS IN ELECTROFORMING 67-07 M12-73372

TUBES, CASTING
SELECTING A SUITABLE RANGE OF CAST IRON PIPES FOR CENTRIFUGAL AND SEMICONTINUOUS CASTING 67-10 M06-78883
CENTRIFUGAL CASTING OF STEEL OKH23N28M3D3T PIPES 67-12 M06-81887
STAINLESS STEEL TUBE PRODUCTION DEVELOPMENT-- METHOD BASED ON PRESSURE CAST HOLLOWS 67-12 M06-83163
SLIP CASTING OF NIOBIUM CARBIDE 67-12 M09-82205

TUBES, EXTRUSION
DEPENDENCE OF THE PROPERTIES OF EXTRUDED SEMI-FINISHED PRODUCTS MADE FROM ALUMINUM ALLOYS ON THE STATE OF THE BILLETS 67-08 M07-76129

TUBES, MECHANICAL PROPERTIES
MARTENSITIC TRANSFORMATION IN 1KH15N9S3B STEEL DURING DEFORMATION 67-04 M07-67978
EFFECTS OF NONMETALLIC INCLUSIONS ON MECHANICAL PROPERTIES OF ELECTRIC RESISTANCE WELDED STEEL TUBES 67-04 M17-67514

TUBES, METAL WORKING
EXPERIMENTAL STUDY OF FORCES IN SPIN FORMING TUBE BOTTOMS 67-12 M08-82065

TUBES, NONDESTRUCTIVE TESTING
CONTACTLESS WEIGHT DETERMINATION DURING THE ROLLING OF TUBES ACCORDING TO THE PILGER METHOD 67-09 M19-77386

TUBES, SURFACE FINISHING
GRIT BLASTING NOZZLE FABRICATED FROM MILD TOOL STEEL PROVES SATISFACTORY 67-06 M12-70001

TUBES, WELDING
PLATING STEEL TUBES WITH ZIRCALOY-2 TUBES BY SWAGING 67-11 M08-80384

TUBES /ELECTRONIC/
SEE ALSO KLYSTRONS
THERMIONIC TUBES
TRAVELING WAVE TUBES
VACUUM TUBES
SOLDERING PROBLEMS IN THE PRODUCTION OF ELECTRONIC TUBES 67-05 M11-68606

TUBING, QUALITY CONTROL
BETA RAY THICKNESS MEASUREMENTS OF LIGHT ALLOY TUBES 67-01 M19-57989

TUBING /METAL/
FABRICATION OF TUNGSTEN AND TUNGSTEN-25 PER CENT-RHENIUM TUBING 67-01 M07-58584
ECONOMICAL PRODUCTION IN THE DAIRY FITTINGS INDUSTRY THROUGH THE INTRODUCTION OF PRECISION-

CAST HOUSING PARTS 67-02 M06-60034
STUDY OF THE PRODUCTION TECHNOLOGY OF POROUS TITANIUM TUBES 67-02 M09-60575
MAKING STEEL PIPE BY STRETCH REDUCTION 67-03 M08-65984
GEOMETRIC PARAMETERS OF THE CONTINUOUS AREA OF FORMATION OF TUBES 67-04 M07-67613

TUBING /METAL/, BONDING
INVESTIGATION OF ADHESIVELY BONDED TUBE JOINTS OF ALUMINUM 67-05 M11-69034

TUBING /METAL/, BRAZING
A TWO-MILE COPPER TUBE FOR THE WORLDS LARGEST LINEAR ELECTRON ACCELERATOR 67-03 M20-65498
INVESTIGATION OF THE EFFECT OF THE CONSTRUCTION OF FITTINGS WITH BRAZED JOINTS ON THE FATIGUE STRENGTH OF PIPELINES 67-04 M17-66828
DIFFUSION BRAZING IN STAINLESS STEEL FUEL ELEMENTS FOR WATER COOLED POWER REACTORS 67-07 M11-73900
FLUXLESS BRAZING OF STAINLESS STEEL 67-11 M11-80904

TUBING /METAL/, CASTING
EFFICIENT GRADING OF CAST IRON PIPES FOR CENTRIFUGAL AND SEMICONTINUOUS CASTING 67-02 M06-59174
SOLIDIFICATION OF SEMI-CONTINUOUS CAST IRON PIPES 67-02 M06-61907
STRUCTURE OF THE IRON IN SPUNCAST PIPES 67-02 M13-61917
HOT TEARING IN SEMI-CONTINUOUSLY CAST PIPES 67-02 M17-61190
COOLING OF MOLDS DURING PIPE CASTING 67-04 M06-67505
THE CONTINUOUS CASTING OF HOLLOW BILLETS 67-06 M04-72159
CENTRIFUGAL CASTING OF IRON PIPES INTO METAL MOLDS COATED WITH SAND-RESIN 67-07 M06-74036
PRESHRINKAGE EXPANSION OF IRON IN SEMICONTINUOUS CAST PIPES 67-07 M15-74048
MACROSTRUCTURE OF PIPES CAST BY THE CENTRIFUGAL METHOD 67-08 M06-76038
LEAD PRODUCTS BY CONTINUOUS CASTING 67-09 M03-76618
PRESSURE CASTING OF TUBE HOLLOWS 67-11 M06-80672
RESIDUAL STRESS IN CAST IRON TUBES 67-12 M06-82087
MOLD LIFE IN CENTRIFUGAL CASTING OF IRON PIPES 67-12 M06-82096
POURING CHUTES FOR CENTRIFUGAL CASTING OF IRON PIPES 67-12 M06-83030
HEAT EXCHANGE ON THE INTERNAL SERVICE DURING CENTRIFUGAL CASTING OF PIPES 67-12 M06-83036

TUBING /METAL/, CLADDING
EXPLOSION FORCE FOR FORMING TUBULAR BIMETAL BILLETS FOR HOT DEFORMATION 67-10 M12-78390

TUBING /METAL/, CLEANING
METHOD OF DESCALING TUBES 67-02 M12-59684
AUTOMATICALLY CONTROLLED EQUIPMENT FOR THE PICKLING OF TUBES 67-07 M12-72565
INVESTIGATION OF THE EFFECT OF CHEMICAL TREATMENT OF TITANIUM ALLOY TUBES ON THEIR MECHANICAL PROPERTIES 67-09 M12-76437
MODERN APPROACH TO IMPACT FINISHING 67-09 M12-77740

TUBING /METAL/, COATING
EXTRUSION OF STEEL-COPPER BIMETAL TUBES 67-02 M07-59698
POLYMER COATING OF THE INTERNAL SURFACE IN PIPES 67-04 M12-66817
VAPOR PHASE FORMING 67-04 M12-68155
PRODUCTION OF PLASTIC-LINED PIPES 67-05 M18-69692
TUBES VITREOUS ENAMELLED INSIDE OR OUT 67-06 M12-71901
USE OF DIFFUSION ZINC PLATING IN TUBE INDUSTRY 67-07 M12-74187
METAL PIPE FOR MOLTEN ALLOYS 67-07 M18-74040
MANUFACTURE AND USE OF PLASTIC-LINED PIPES 67-07 M18-74078
VITREOUS ENAMELLING TREBLES HEATER TUBE LIFE 67-08 M12-74951
GLASS COATING OF THE INTERNAL SURFACE OF STEEL TUBES BY A POWDER METHOD 67-08 M12-75016
HOMOGENEOUS LEAD COATINGS ON STEEL 67-09 M12-76615
IMPROVED QUALITY AND SAVING OF MATERIALS DURING HOT GALVANIZING OF GAS AND WATER PIPES 67-09 M12-76841
COMPARISON OF GALVANIZED WELDED AND UNWELDED TUBES 67-09 M12-77647
BLACK CHROMIUM PLATING AT COMMERCIAL PLATING 67-09 M12-77695
PROTECTION OF TUBES IN THE OIL INDUSTRY 67-10 M12-78543
STANDARD MILL IS MODIFIED TO PRODUCE GALVANIZED TUBING 67-10 M12-78579
VITREOUS ENAMELLING TREBLES HEATER-TUBE LIFE 67-10 M12-79787
EFFECT OF LIQUID CALORIZING ON THE TENSILE PROPERTIES OF STEEL-ALUMINUM WELDED TUBE 67-11 M17-80591
TRENDS IN PLASTIC COATED PIPING 67-12 M12-82647
INTRODUCTION OF A UNIT FOR CONTINUOUS GALVANIZING OF TUBES 67-12 M12-83477

TUBING /METAL/, CORROSION
THE BEHAVIOR OF VARIOUS COATINGS ON TUBULAR DOLPHINS IN SEA WATER 67-02 M18-59107
FIELD TEST RESULTS OF HIGH-PRESSURE FEED WATER HEATER TUBING MATERIALS OF A POWER PLANT 67-02 M18-59143
CORROSION MONITORING IN OIL WELLS WITH A RADIOACTIVE SPECIMEN 67-02 M18-60252
CORROSION-RESISTANT COPPER ALLOY MAY DOOM STEEL TUBING FOR HYDRAULIC BRAKE LINES 67-02 M20-61641
CORROSION RESISTANCE OF WELDED JOINTS OF HEAT RESISTANT STEELS WHEN USED IN THE PRODUCTION OF METHANOL AND ISOBUTANOL 67-03 M18-65060
THE APPLICATION OF TITANIUM ALLOYS FOR DISTILLATION PLANTS 67-03 M18-65310
A STAND FOR TESTING TUBULAR SPECIMENS IN HEAT TRANSFER CONDITIONS 67-03 M18-65613
EFFECT OF RATE OF INGOT COOLING AFTER HOMOGENIZATION ON QUALITY OF D16 ALLOY TUBES 67-04 M18-66980
WATER DESALINATION POSES TOUGH MATERIALS PROBLEMS 67-05 M18-68427
INFLUENCE OF RESIDUAL STRESSES ON CORROSION CRACKING OF AUSTENITIC STAINLESS STEELS 67-05 M18-69007
CORROSION PROBLEMS ON FINNED AIR-COOLED HEAT EXCHANGER TUBING 67-06 M18-70546
CHEMICAL TREATMENT OF STAINLESS STEEL TUBES FOR PREVENTION OF PITTING CORROSION 67-06 M18-71264
STEAM-METHANE REFORMING PROBLEMS--STRESS CORROSION CRACKING IN PRIMARY CONVERSION 67-06 M18-72337
CORROSION CRACKING OF THE COOLER OF KH18N10T STAINLESS STEEL USED IN MANUFACTURING SULFURIC ACID 67-07 M18-73198
CORROSION RESISTANCE OF WELDED JOINTS IN HEAT RESISTING STEELS FOR METHANOL AND ISOBUTANOL PRODUCTION PLANT 67-07 M18-73978
APPARATUS FOR TESTING TUBULAR SPECIMENS DURING HEAT TRANSFER 67-08 M18-74538
CHEMICAL TREATMENT OF STAINLESS STEEL TUBES TO ELIMINATE RUSTY SPOTS 67-08 M18-75733
ANTICORROSION PROTECTION OF STEEL TUBES BY VARNISH COATINGS 67-08 M18-76280
CORROSION BEHAVIOR OF CR-NI-MO-CU STEELS IN SULFURIC AND PHOSPHORIC ACIDS 67-09 M18-76516
STRESS RELIEF IN AUSTENITIC STEEL WELDS 67-09 M18-76517
PITTING CORROSION OF STAINLESS STEELS IN WATER CONTAINING CHLORINE IONS 67-10 M18-78528
INVESTIGATING INTERNAL CORROSION OF COPPER TUBING 67-10 M18-78601
ANTICORROSION PROTECTION OF STEEL TUBES BY COATINGS OF LACQUER 67-10 M18-79273
SOME NOTES ON CURRENT DISTRIBUTION IN CATHODIC PROTECTION SYSTEMS 67-10 M18-79429
EXPERIENCE WITH TI APPARATUS IN THE CHEMICAL INDUSTRY 67-11 M18-81258
BACTERIAL CORROSION OF STEEL WATERPIPES 67-11 M18-81279

TUBING /METAL/, CRYSTAL GROWTH
SPECIAL FEATURES OF RECRYSTALLIZATION OF THE KH18N12T TUBE STEEL 67-09 M14-76956

TUBING /METAL/, DRAWING
DEVICE FOR AUTOMATIC LUBRICANT FEED IN TUBE DRAWING AND ROLLING 67-02 M07-59680
METHOD FOR PRODUCTION OF SEAMLESS TUBES 67-02 M07-59683
DRAWING TUBES AND BARS ON ONE BENCH

67-07 M07-74154
MECHANIZATION OF MILL FOR DRAWING OF LARGE SIZE COPPER TUBES 67-08 M07-75214

TUBING /METAL/, EROSION
DUPLEX REFRACTORY SNORKLE TUBE ADVANCES PRESSURE POURING PROCESS 67-07 M05-73843

TUBING /METAL/, EXTRUSION
PRODUCTION OF THIN-WALLED TUBES OF RECTANGULAR SECTION DIRECTLY FROM THE MELT 67-01 M07-58199
EXTRUSION AND FORMING UNDER HIGH FLUID PRESSURES 67-01 M07-58672
TOOL FOR TUBE EXTRUSION 67-02 M07-59679
DETERMINATION OF THE COLD EXTRUSION STRESS WITH THE AID OF CORRELATION ANALYSIS 67-02 M07-60675
INFLUENCE OF THE STATE OF THE BILLETS ON THE PROPERTIES OF COLD PRESSED ALUMINUM ALLOY PRODUCTS 67-02 M08-59771
EXTRUDED BIMETALLIC FINNED TUBES 67-02 M08-59817
N36KHT STEEL TUBE MANUFACTURE 67-04 M07-67828
ON THE THEORY OF THE HYDROEXTRUSION OF BRITTLE METALS 67-05 M07-69664
TOOL FOR PRESSING PIPES 67-06 M08-70148
HYDROMECHANICAL EXTRUSION OF THIN-WALLED TUBES 67-08 M07-75479
PRESSING OF ALUMINUM ALLOY TUBES WITH APPLICATION OF A SHIFTABLE MANDREL 67-10 M07-79042
PROBLEMS IN THE EXTRUSION OF STRUCTURAL BERYLLIUM SHAPES 67-10 M08-79535
CEMERON COMMISSIONS SCOTTISH FORGING PLANT 67-11 M07-80673
INFLUENCE OF BILLET GEOMETRY ON WALL THICKNESS VARIATION IN EXTRUDED TUBES 67-11 M07-80756
PRESSING OF MOLYBDENUM TUBES 67-12 M08-81798
DETERMINING FORCES IN COLD DIRECT EXTRUSION, REDUCTION AND SIZING OF CONTINUOUS AND HOLLOW PIECES 67-12 M08-82061
VACUUM PRESSING OF HEAT RESISTANT METALS 67-12 M08-83024

TUBING /METAL/, FORMING
PRODUCING THIN-WALLED PIECES FROM MELT WITH AIR-BLOWING 67-02 M03-61561
KINEMATIC AND FORCE PARAMETERS OF HELICAL CROSS ROLLING UNDER VARIOUS CONDITIONS OF DEFORMATION 67-08 M07-75015
FORMING BAR, TUBE, SHAPES AND WIRE 67-08 M08-74844
A METHOD FOR CONTINUOUS SHAPING OF STRAIGHT-SEAMED TUBE BLANKS 67-09 M07-77636
A NEW CONTINUOUS METHOD OF FORMING THE SKELP FOR STRAIGHT SEAM WELDED TUBES 67-11 M07-80924

TUBING /METAL/, HEAT TREATMENT
TEMPERATURE DISTRIBUTION DURING TEMPERING INDUCTION HEATING OF STAND PIPES 67-02 M10-59685
OPERATION OF A CONVEYOR FURNACE FOR TUBE ANNEALING IN A PROTECTIVE ATMOSPHERE OF DISSOCIATED AMMONIA 67-02 M10-61881
ADJUSTMENT OF A NEW CONTINUOUS ROLLER HEARTH FURNACE FOR HEAT TREATING SHKH15 STEEL TUBES 67-02 M10-62156
OPERATION OF A CONVEYER FURNACE FOR ANNEALING TUBES IN A PROTECTIVE ATMOSPHERE OF CRACKED AMMONIA 67-04 M10-67700
THERMOMECHANICAL TREATMENT OF COLD ROLLED TUBE 67-04 M10-68145
A SECTIONAL FURNACE FOR HEAT TREATING TUBES 67-05 M10-68559
PRELIMINARY STRENGTHENING OF TUBES 67-06 M10-70068
A MULTI-STAGE FURNACE FOR HEAT TREATMENT OF TUBES 67-07 M10-72470
STUDY OF PERFORMANCE OF ROLLER-HEARTH TUNNEL FURNACES FOR HEAT TREATMENT OF BALL-BEARING TUBES 67-07 M10-74148
A METHOD OF HEAT TREATING STAINLESS STEEL TUBES 67-10 M10-78360
HEAT TREATMENT OF 36G2S STEEL DRIVE PIPES 67-10 M10-78438
PRELIMINARY THERMOMECHANICAL TREATMENT OF PIPES 67-10 M10-78814
HEAT TREATMENT OF DRILL PIPES MADE FROM 36G2S STEEL 67-12 M10-83436
ALLOYING OF STEELS FOR PETROLEUM INDUSTRY TUBING 67-12 M10-83536

TUBING /METAL/, HEATING
METAL HEATING IN TUBE PRODUCTION 67-01 M10-57266

TUBING /METAL/, MACHINING
DIAMOND TOOLS SHAPE TWO-MILE TUBE 67-02 M08-61003
ABRASIVE MACHINING--WHY AND WHEN 67-07 M08-73858
DEVELOPMENT OF ECM PROTOTYPE EQUIPMENT FOR GUN TUBE MANUFACTURE 67-09 M08-77906

TUBING /METAL/, MAGNETIC PROPERTIES
MAGNETOELASTIC INTERACTION OF DISLOCATIONS AND FERROMAGNETIC DOMAIN WALLS AND TORSIONAL MICROCREEP EXPERIMENTS ON IRON AND NICKEL TUBES 67-07 M15-73565

TUBING /METAL/, MATERIALS
INTRODUCTION TO THE METALLURGY OF CAST HEAT-RESISTING ALLOYS 67-06 M17-70534
DEVELOPMENT OF IMPROVED WROUGHT ALLOYS FOR REFORMER TUBES 67-06 M17-70535
INTRODUCTION TO THE USE OF CAST ALLOY MATERIAL FOR HYDROCARBON PROCESSING IN THE U. S. A. 67-06 M20-70532

TUBING /METAL/, MECHANICAL PROPERTIES
RESEARCH INTO THE FATIGUE STRENGTH OF BUTT WELDED JOINTS BETWEEN STEEL TUBES 67-02 M17-59794
INFLUENCE OF ANNEALING ON CREEP STRENGTH OF KH18N10T STEEL WELDS 67-02 M17-60133
BRITTLE BEHAVIOR IN EXTRUDED BERYLLIUM TUBES 67-02 M17-60906
INFLUENCE OF SURFACE DEFECTS ON THE MECHANICAL PROPERTIES OF THIN-WALLED TUBING OF 304 STAINLESS STEEL 67-02 M17-61963
A METHOD FOR TESTING TUBES FOR CREEP STRENGTH 67-03 M17-65074
BUCKLING STRESS BEHAVIOR PIPES UNDER INTERNAL AND/OR EXTERNAL LOADS 67-03 M17-65186
FABRICATION AND MECHANICAL PROPERTIES OF SEMIFINISHED BERYLLIUM-CALCIUM PRODUCTS FOR CO2-COOLED REACTORS. PRODUCTION, TRANSFORMATION AND PROPERTIES OF EXTRUDED CAST BERYLLIUM TUBING 67-03 M17-65287
A DYNAMIC BIAXIAL TESTING MACHINE 67-03 M17-65661
MARTENSITIC TRANSFORMATION IN 1KH15N9S3B STEEL DURING DEFORMATION 67-04 M07-67978
DEVELOPMENT OF TUBE WELDING TECHNIQUES FOR CARBON STEEL FEEDWATER HEATERS 67-04 M11-67624
EXOTHERMICALLY BRAZED HYDRAULIC FITTINGS FOR AIRCRAFT 67-04 M11-67625
INFLUENCE OF THE LIQUID SLAG REFINING ON TOUGHNESS OF LOW ALLOY STRUCTURAL STEEL 67-04 M17-66360
MECHANICAL PROPERTIES OF TUBES OF D1 AL ALLOY 67-04 M17-66372
SUPERHEATING PIPES TESTED AFTER OPERATION FOR 100,000 HR 67-04 M17-67131
MECHANICAL PROPERTIES AND STRUCTURE OF COLD-EXTRUDED, ALUMINUM-ALLOY TUBE AND ROD 67-04 M17-67533
THE EFFECTS OF STABILIZING ANNEALING ON THE LONG TIME STRENGTH OF JOINTS IN KH18N10T STEEL 67-04 M17-67673
THE EFFECT OF WIDELY SPACED COMPRESSION CYCLES ON THE STRENGTH OF A STRUCTURAL ELEMENT 67-04 M17-68079
EXPANDABILITY TEST ON BERYLLIUM TUBE TO BE USED FOR FUEL CLADDING OF NUCLEAR POWER REACTORS 67-05 M17-69883
THE STRESSES IN A BULGING TUBE SUBJECTED TO INTERNAL PRESSURE AND AN ADDITIONAL AXIAL FORCE 67-06 M17-70263
HIGH TEMPERATURE ALLOYS FOR USE IN REFORMER FURNACES 67-06 M17-70528
QUALITY OF 1020 MM DIAMETER SPIRAL SEAM TUBES OF 15G2S STEEL 67-06 M17-71260
PLASTIC DEFORMATION OF STEEL IN COMBINED LOADING WITH A CONSTANT STRESS INTENSITY 67-06 M17-71375
EFFECT OF PRESTRAINING ON IMPACT STRENGTH OF 30KHGSA STEEL 67-06 M17-72352
EMBRITTLEMENT OF SOME STEELS BY AMMONIA AT HIGH TEMPERATURES AND PRESSURES 67-06 M17-72398
ON THE TESTING OF STEEL IN BIAXIAL TENSION AT ROOM TEMPERATURE AND LOWER TEMPERATURES 67-07 M17-72789
A METHOD FOR TESTING TUBES FOR LONG-TERM STRENGTH 67-07 M17-72973
THE TESTING OF THE BEHAVIOR OF METAL PIPELINES UNDER VARYING INTERNAL HYDRAULIC PRESSURE 67-07 M17-73149
CREEP STRENGTH OF 40KH STEEL AT COMPLEX STRESS

STATE IN PB-SN EUTECTIC 67-07 M17-73165
CRACK PROPAGATION TESTS ON ZIRCALOY-2 REACTOR PRESSURE TUBING IN BOTH THE NORMAL AND HYDRIDED CONDITIONS 67-07 M17-73400
EFFECT OF STATE OF STRESS ON THE CREEP BEHAVIOR OF LEAD AND LEAD ALLOY TUBES 67-07 M17-73709
BRITTLE FAILURE OF A STEEL SCAFFOLD TUBE 67-08 M17-74506
MECHANICAL PROPERTIES OF SEAM WELDED JOINTS IN THIN WALLED SLENDER TUBES 67-08 M17-74767
INVESTIGATING QUALITY OF 1020 MM DIAMETER HELICALLY WELDED TUBES MADE FROM 15G2S STEEL 67-08 M17-75729
STABILITY OF THE STRUCTURE AND PROPERTIES OF 125H1M1F STEEL PIPES 67-08 M17-76016
FATIGUE STRENGTH OF TUBES BUTT WELDED USING A CERAMIC COATED BACKING MEMBER 67-09 M17-78152
EFFECT OF REFINING WITH LIQUID SYNTHETIC SLAG ON THE DUCTILE CHARACTERISTICS OF LOW-ALLOY STRUCTURAL STEELS 67-11 M17-80962
MECHANICAL PROPERTIES OF PIPES OF THE D1 ALLOY 67-11 M17-80974
THE EFFECT OF HYDRAULIC TEST PRESSURE UPON THE SUBSEQUENT SERVICEABILITY OF PARTS OPERATING IN HYDROGEN 67-12 M17-82432
MECHANICAL PROPERTIES AT ELEVATED TEMPERATURES OF SEAMLESS CARBON STEEL TUBING 67-12 M17-83337

TUBING #METAL#, MECHANICAL PROPERTIES
TORSION CREEP OF CIRCULAR AND NONCIRCULAR TUBES
TORSION CREEP OF CIRCULAR AND NONCIRCULAR TUBES 67-12 M17-83568

TUBING /METAL/, METAL FORMING
COOLED DIES FOR METAL PRESSING 67-08 M08-76245

TUBING /METAL/, METAL WORKING
SLIP IN CROSS-HELICAL ROLLING. PT. 1 67-02 M07-60065
WHEN YOU NEED 3 3/4 MILE LENGTHS OF TUBING, CHASE BRASS IS READY 67-02 M07-60624
A COMBINED DEVICE FOR STUDYING FORCES ACTING ON ROLLERS OF A PIERCING MILL 67-02 M07-61213
FORCES OF STRIPPING WORKING CONE FROM MANDREL IN COLD ROLLING OF TUBES ON KHPT MILLS 67-02 M07-61215
TOOLING FOR COLD PRESSING ALUMINUM ALLOY TUBES 67-02 M07-61617
MATHEMATICAL MODELING OF TUBE PRODUCTION 67-02 M07-61620
IS TUBE BENDING YOUR PROBLEM 67-02 M07-61643
DETERMINING FORCES FOR FORMING SPIRAL-SEAMED TUBES ON CONTINUOUS MILLS 1020 67-02 M07-61873
COLD DRAWING TUBES IN WORK HARDENED STATE 67-02 M07-61874
TUBE ROLLING ON KHPT MILLS WITH ECCENTRIC DRIVING GEARS 67-02 M07-62150
HOW TO BEND TITANIUM TUBING 67-02 M08-59033
THE COLD NECKING OF 3 TO 9 MM THICK SHEETS AND TUBES --2-- 67-02 M08-59807
CONTINUOUS STRETCH-REDUCTION PIPE MILL IN OHIO 67-03 M08-65716
THIN-WALLED M-40 ALLOY PIPES 67-04 M07-66831
EXPERIMENTAL DETERMINATION OF FORCES IN A THREE-LINE TUBE MILL 67-04 M07-66977
COLD DRAWING TUBES IN A WORK-HARDENED CONDITION 67-04 M07-67693
THE QUALITY OF ELECTRICALLY WELDED TUBE AS RELATED TO THE FLAT ANISOTROPY OF THE HOT ROLLED STRIP 67-04 M07-68148
INVESTIGATION OF KH18N10T STAINLESS STEEL TUBES BENT BY INDUCTION HEATING 67-04 M08-66592
CALCULATING THE FORCES OF FORMING HELICALLY WELDED PIPES ON THE CONTINUOUS 1020 MILLS 67-04 M17-67692
AUTOMATION TURNS TUBING TO CORES 67-05 M08-68482
BLANKING-OFF REFORMER TUBES DURING PLANT OPERATION 67-06 M07-70540
PRODUCTION TUBE BENDING 67-06 M07-70595
CHANGE IN THE PROPERTIES AND STRUCTURE OF PIPES DURING DRAWING AFTER INDUCTION HEATING 67-06 M07-70911
HEATING OF PIPES DURING DRAWING IN AN ULTRASONIC FIELD 67-06 M07-70912
MANUFACTURE OF SEAMLESS STEEL PIPE AND TUBING 67-06 M07-72138
COLD DRAWING OF STEEL PIPE AND TUBING 67-06 M07-72140
PIPE AND TUBE PROCESSING MACHINERY 67-06 M07-72141
DETERMINING THE CONTACT AREA WHEN SPINNING BOTTOMS 67-06 M08-70281
BENDING WITHOUT MANDRELS 67-06 M08-71403
BENDING THIN-WALLED TUBES WITHOUT A MANDREL 67-07 M08-73954
STAINLESS STEEL FUEL PIN CLADDING 67-09 M20-77548
METAL DEFORMATION IN THE PRODUCTION OF LARGE-DIAMETER ELECTROWELDED TUBES 67-10 M08-78434
MEASUREMENTS OF PRESSURE DISTRIBUTION IN THE DRAWING OF TUBES AND BARS 67-11 M07-81375
THE ART OF SHAPING STAINLESS TUBING 67-11 M08-81199
STUDIES ON FORMING TECHNIQUES AT THE FREIBERG ACADAMY 67-12 M07-81962
THE USE OF HIGH TEMPERATURE THERMOMECHANICAL TREATMENT IN THE MANUFACTURE OF EXTRUDED TUBES OF TITANIUM ALLOY VT 15 67-12 M07-82414
METAL DEFORMATION IN PRODUCTION OF LARGE DIAMETER ELECTRIC-WELDED TUBES 67-12 M07-83432
PRODUCING THIN-WALLED TUBULAR BILLETS IN 4KH13 STEEL AND SHAPING THE WORKING PORTION OF A COILED TUBULAR SPRING 67-12 M08-82066

TUBING /METAL/, MICROSTRUCTURE
INTERNAL SCABS IN TUBES MADE FROM INGOTS OF CIRCULAR CROSS SECTION 67-02 M07-59693

TUBING /METAL/, NONDESTRUCTIVE TESTING
THE CONTINUOUS ULTRASONIC INSPECTION OF ELECTRORESISTANCE WELDED TUBING 67-02 M19-58850
ULTRASONIC INSPECTION OF BUTT WELDS IN BOILER TUBES 67-03 M11-65055
EXCITATION OF LAMB WAVES IN THICK PLATES BY ULTRASONIC IMPULSES 67-03 M19-65602
GAMMA-DEFECTOSCOPE RID-21G FOR QUALITY CONTROL OF WELDED JOINTS IN MAINS 67-04 M19-66876
DETERMINATION OF THE TOLERABLE RADII AND OF THE THICKNESS OF STEEL PIPES IN WHICH GAMMA DEFECTOSCOPY OF TRANSVERSE FILLET WELD BY DOUBLE EXPOSURE WITH IR192 IS POSSIBLE ALONG THE ENTIRE WELD LENGTH 67-04 M19-67434
EDDY CURRENT TESTING OF TUBES WITH INTERNAL PROBE 67-04 M19-68030
TESTING TUBING FOR A PLASTICS PROCESS 67-04 M19-68153
TUBE CONTROL BY ELECTRONIC SOUND 67-05 M19-68929
ULTRASONIC INSPECTION OF A TUBE OF SMALL DIAMETER AND THIN WALL 67-05 M19-69481
TRANSMITTER FOR CONTROLLING THE PARAMETERS OF HOT ARTICLES 67-06 M19-70150
TWIN PROBES TRIM MARGIN OF ERROR 67-06 M19-71052
NEW TUBE TESTING EQUIPMENT 67-06 M19-71820
NEW DEVELOPMENTS IN NONDESTRUCTIVE TESTING OF TUBES 67-06 M19-72097
ON THE CORRELATION BETWEEN COERCIVITY AND THE MECHANICAL PROPERTIES OF 40KHNMA --AISI 4340 TYPE-- STEEL 67-07 M19-72672
ULTRASONIC INSPECTION OF WELDED JOINTS IN BOILER TUBES 67-07 M19-73975
WALL THICKNESS MEASUREMENTS BY NONDESTRUCTIVE METHODS IN THE PRODUCTION OF STEEL TUBES 67-07 M19-74110
THE ULTRASONIC TESTING OF TUBES AND RODS 67-07 M19-74158
EXCITATION CONDITIONS FOR LAMB WAVES IN THICK PLATES BY MEANS OF ULTRASONIC PULSES 67-08 M19-74527
POSSIBILITIES FOR THE USE OF NONDESTRUCTIVE TESTING FOR THE DETECTION OF DEFECTS IN THE PRODUCTION OF STEEL TUBES 67-09 M19-76696
DOUBLE ULTRASONIC PROBE AIDS IN TUBE QUALITY CONTROL 67-09 M19-77150
POSSIBLE APPLICATIONS OF NONDESTRUCTIVE TESTING IN THE PRODUCTION OF STEEL TUBES. PT. 1. WALL THICKNESS MEASUREMENTS 67-10 M19-79479
POSSIBLE APPLICATIONS OF NONDESTRUCTIVE TESTING IN THE PRODUCTION OF STEEL TUBES. PT. 2. DEFECT DETECTION 67-10 M19-79480
AUTOMATIC FLAW DETECTION OF WELDED JOINTS IN TUBES 67-12 M19-81920

TUBING /METAL/, PIERCING
DETERMINING RADIUS OF BILLET AND ACTUAL ANGLES OF GRADIENT OF ITS FLANK FACE IN HELICAL PIERCING 67-04 M07-66085
CHOOSING LUBRICANTS FOR HOT PIERCING OF ROUND BILLETS 67-07 M07-73787

TUBING /METAL/, QUALITY CONTROL

TUBING /METAL/

CONTROL OF THE INTERNAL SURFACE CONTINUITY OF FERROMAGNETIC TUBES USING A ROTARY DATA UNIT 67-10 M19-78392
PROBELMS AND EXPERIENCE IN THE TESTING OF BALL BEARING TUBES IN A FULLY AUTOMATIC INSTALLATION 67-12 M19-83575

TUBING /METAL/, QUENCHING /COOLING/
COOLING OF PIECES DURING QUENCHING 67-02 M10-62059

TUBING /METAL/, REACTIONS /CHEMICAL/
EFFECT OF STRESSES ON STEEL DECARBURIZATION 67-04 M14-66027
CATALYTIC ACTIVITY OF STAINLESS STEEL TUBES 67-08 M14-76294

TUBING /METAL/, ROLLING
THE PRODUCTION OF TUBES FROM CONTINUOUSLY CAST MATERIAL 67-02 M07-59134
DEVICE FOR INVESTIGATING CONTINUOUS ROLLING 67-02 M07-60084
WALL THICKNESS VARIATION OF TUBE AND ROLLING TORQUE IN STRETCH REDUCING MILL STEEL TUBE WORKS 67-02 M08-58847
POWER CONDITIONS IN MANDREL ROLLING OF TUBES 67-04 M07-66082
ROLLING PROCESS FOR TUBES ON COLD-ROLLING MILLS WITH ECCENTRIC DRIVING GEARS 67-04 M07-68192
IMPROVING THE ROLLING TECHNOLOGY AND THE CONSTRUCTION OF PLUG MILLS ON INSTALLATIONS WITH AN AUTOMATIC MILL 67-05 M07-69693
A MODERN MILL FOR COPPER TUBING 67-05 M20-69499
APPARATUS FOR TUBE ROLLING 67-06 M07-70149
EXPERIMENTAL INVESTIGATION OF THE SPECIFIC PRESSURE DURING PILGER MILL ROLLING OF PIPES 67-06 M07-70901
OPERATION OF A UNIT FOR CONTINUOUS REDUCTION OF ELECTROWELDED PIPES 67-06 M07-71257
IMPROVING ROLLING TECHNOLOGY AND DESIGN OF THE FINISHING STANDS IN PLANT INCLUDING AUTOMATIC MILLS 67-07 M07-74079
RELATIVE MOVEMENT OF METAL BEING FORMED AND FREE FLOATING MANDREL WHEN ROLLING TUBES ON A CONTINUOUS MILL 67-07 M07-74144
EXPERIENCE WITH PLANT FOR CONTINUOUS REDUCTION OF ELECTRIC-WELDED TUBES 67-08 M07-75726
DOUBLE ROLLING OF AUSTENITIC STAINLESS TUBES ON KHPT MILLS 67-08 M07-76279
MECHANISM FOR FEEDING PIPES INTO ROLLING MILLS 67-09 M07-76860
ROLLING OF BIMETALLIC STEEL/COPPER PIPES IN CONTINUOUS PIPE AND TUBE MILLS 67-09 M07-76862
EFFECT OF TECHNICAL PARAMETERS AND METHODS OF DEFORMATION ON THE RUPTURE OF THE AXIAL ZONE DURING HELICAL CROSS ROLLING 67-10 M07-78976
TWO-STAGE ROLLING ON COLD-ROLLING MILLS OF AUSTENITIC STAINLESS STEEL TUBES 67-10 M07-79272
RADIOISOTOPIC DETERMINATION OF THE POSITION OF PIPES IN HOT BILLETS 67-10 M07-79869
ANISOTROPY OF MECHANICAL PROPERTIES IN TUBES AS ONE OF THE FACTORS IN THE SELECTION OF A HOT DEFORMATION METHOD 67-11 M07-80861
DECREASING THE WALL THICKNESS VARIATION IN TUBES BY USING TWO-ROW ROLLER ROLLING 67-11 M07-80862
TECHNOLOGICAL PROPERTIES OF HEAT RESISTANT EP150 TUBE STEEL 67-11 M07-80864
POWER PARAMETERS IN ROLLING TUBES ON A SHORT MANDREL 67-11 M07-81655
TUBULAR PRODUCTION IN THE COLD PILGER MACHINE 67-12 M07-83594

TUBING /METAL/, SPECIFICATIONS
STAINLESS STEEL TUBING 67-07 M19-72933

TUBING /METAL/, STRUCTURAL MATERIALS
EXPERIENCE WITH PRODUCING 14KHGS STEEL FOR GAS MAIN PIPES AT THE KOMMUNAR IRON AND STEEL PLANT 67-10 M17-78926

TUBING /METAL/, SURFACE FINISHING
ABRASIVE BLASTING--NEW EQUIPMENT MEANS NEW APPLICATIONS 67-02 M12-59015
ELECTROLYTIC POLISHING OF CARBON STEEL TUBES 67-08 M12-75017
ABRASION AND POLISHING OF TUBES AND RODS 67-10 M12-79397

TUBING /METAL/, TENSION TESTS
INVESTIGATION OF STEEL UNDER CONDITIONS OF BIAXIAL TENSION AT ROOM AND LOW TEMPERATURES 67-03 M17-65103

TUBING /METAL/, TESTING
ULTRASONIC DEFECTOSCOPY OF SMALL-BORE PIPES 67-04 M19-66839

TUBING /METAL/, THERMAL PROPERTIES
ARC WELDING THE EDGES --ENDS-- OF STEEL TUBES 67-01 M11-57525
ARC HEATING OF THE ENDS OF STEEL TUBES 67-02 M11-61144

TUBING /METAL/, THICKNESS
MEASURING PIECES WITH UNPARALLEL SURFACES BY AN ULTRASONIC RESONANCE THICKNESS GAGE 67-08 M19-75350

TUBING /METAL/, WELDED JOINTS
APPARATUS FOR TESTING WELDED JOINTS IN TUBULAR SPECIMENS 67-02 M17-59799

TUBING /METAL/, WELDING
CHARACTERISTICS OF CO2 AUTOMATIC WELDING WITH SPLIT ELECTRODE 67-01 M11-57532
INERT GAS WELDING OF ROTATING AND NONROTATING BUTTS OF A VIAL TYPE ALLOY PIPES 67-01 M11-57533
ARC WELDING LOW-ALLOY STEEL THICK-WALLED PIPES OPERATING UNDER 180-320 ATMOSPHERES 67-01 M11-57536
PORTABLE WELDER 67-01 M11-57677
RESISTANCE BUTT WELDING OF FINNED TUBES 67-01 M11-57685
A FLUX CUSHION FOR AUTOMATIC WELDING OF CONNECTING PIPES FOR VESSELS 67-01 M11-58279
HIGH-STRENGTH ELECTROWELDED TUBES FOR BUILDING STRUCTURES 67-01 M11-58281
USE OF 14KHGS OXYGEN CONVERTER STEEL FOR PRODUCING ELECTROWELDED TUBING 67-02 M04-62152
THE SIGNIFICANCE OF INERT-GAS WELDING IN THE PRODUCTION OF TUBE JOINTS 67-02 M11-58943
FATIGUE STRENGTH OF CONNECTING PIPE WELDED JOINTS 67-02 M11-59513
AN ELECTRONICALLY CONTROLLED METHOD OF RESISTANCE WELDING THE ENDS OF HEAT EXCHANGER TUBES INTO THE HOLES IN END PLATES 67-02 M11-59648
RADIOFREQUENCY WELDING OF TUBES OF AVERAGE DIAMETERS 67-02 M11-59681
WELDING OF KH8VL STEEL CAST FITTINGS TO PREVIOUSLY WELDED KH8VF STEEL TUBES 67-02 M11-60011
THE THERMODIFFUSION WELDING OF METAL COMPONENTS 67-02 M11-60190
RESISTANCE WELDING OF STEEL TUBES. PT. 2 67-02 M11-60250
INSURING THE CONSTANCY OF THE HEAT CONDITIONS IN ARGON ARC WELDING CIRCULAR SEAMS 67-02 M11-60830
CHARACTERISTICS OF AUTOMATIC TWIN ARC CO2 WELDING 67-02 M11-61151
GAS SHIELDED WELDING OF BUTT JOINTS BETWEEN AVIAL TUBES 67-02 M11-61152
ARC WELDING OF THICK WALLED TUBES MADE OF LOW CARBON STEEL 67-02 M11-61155
REGULATING THE AMOUNT OF FUSION IN ARC WELDING OF NONROTATED BUTT WELDS IN TUBES 67-02 M11-61262
WELDING THIN-WALLED STAINLESS STEEL TUBES BY BUTT SPIRAL SEAMS 67-02 M11-61269
BIMETAL TUBES WELDED IN VOLUME 67-02 M11-61856
A COMBINATION METHOD OF WELDING THE BUTTS OF STEEL PIPES 67-02 M11-62169
FINNING OF TUBES AND FINNED TUBES IN THE PRODUCTION OF STEAM BOILERS WITHOUT WALL CLADDING 67-02 M11-62196
FUSION WELDED 17 STEEL TUBES 67-02 M19-61045
WELDING OF SPECIAL AND COMMON STEEL PIPE 67-03 M11-65062
POTENTIAL OF INDUCTION HEATING 67-04 M01-66399
APPARATUS FOR ELECTRON BEAM WELDING OF CIRCUMFERENTIAL SEAMS IN PIPES 67-04 M11-66818
MECHANIZED WELDING OF FLANGES IN THE CONSTRUCTION OF RADIO TOWERS 67-04 M11-66875
PROGRAMMING FOR PULSED ARC WELDING OF TUBES 67-04 M11-67006
CONTROL OF PARAMETERS OF RADIO-FREQUENCY WELDING OF TUBES 67-04 M11-67015
FLUX CUSHION FOR THE AUTOMATIC WELDING OF BRANCH PIPES TO VESSELS 67-04 M11-67360
HIGH STRENGTH INDUCTION WELDED TUBES 67-04 M11-67362
QUALITY OF RESISTANCE BUTT WELDED ZIRCONIUM ALLOY TUBES 67-04 M11-67809
MAINTENANCE OF CONSTANT THERMAL CONDITIONS DURING ARGON ARC WELDING OF PIPES 67-04 M11-67987

FINNED WALLS IN MODERN STEAM PRESSURE VESSEL CONSTRUCTION. PT. 1 67-04 M11-68005
REGULATING THE REINFORCEMENT IN UNROTATED PIPE JOINTS MADE BY ARC WELDING 67-05 M11-68262
SPIRAL BUTT WELDS IN THIN WALLED STAINLESS STEEL TUBES 67-05 M11-68269
PRODUCING TUBES ON A 72-219 ELECTROWELDING UNIT 67-05 M11-68329
RING-TYPE INDUCTOR FOR HIGH-FREQUENCY PIPE WELDING 67-05 M11-68412
RW CLOSER, THINNER FINS FOR BETTER TUBE HEAT EXCHANGE 67-05 M11-68432
SPACECRAFT PLUMBING SYSTEMS 67-05 M11-68674
WELDING WITH AN ARC ROTATING IN A MAGNETIC FIELD 67-05 M11-69412
PROPERTIES OF ANNULAR SEAM WELDED JOINTS IN THIN WALLED TUBES OF ZIRCONIUM ALLOY 67-06 M11-70309
CONTACT WELDING OF PINS TO BOILER PIPES 67-06 M11-70393
ARC WELDING OF COMBINED BUTTS OF STEAM HEATER PIPES IN 12KH1MF PLUS 1KH18N12T --1KH18N9T-- STEEL 67-06 M11-70396
GAS-TIGHT TUBEWALLS AS STRUCTURAL ELEMENTS OF PRESSURE VESSELS 67-06 M11-70460
WELDING METALLURGY OF CAST AUSTENITIC MATERIALS 67-06 M11-70536
EXPERIENCES IN CONSTRUCTION AND OPERATION OF THE ICI TUBULAR REFORMER AT THE EFFINGHAM STREET WORKS OF THE EAST MIDLANDS GAS BOARD 67-06 M11-70541
GAS-TIGHT TUBE WALLS AS STRUCTURAL ELEMENTS IN PRESSURE VESSEL CONSTRUCTION. PT. 1 67-06 M11-70712
WELDED EXPANDED TUBES OF LARGE DIAMETER MADE OF STEEL BIMETAL 67-06 M11-71259
CORED WELDING WIRE FOR SEMI-AUTOMATIC WELDING OF KH18N10T STAINLESS STEEL 67-06 M11-71650
THE HIGH-FREQUENCY INDUCTION WELDING OF TUBES 67-06 M11-72059
WELDING OF HIGH-PRESSURE PIPELINES WITHOUT INSERT RINGS 67-06 M11-72314
NOTES ON THE PROPERTIES AND WELDING OF CENTRIFUGALLY CAST 25 PER CENT CHROMIUM 20 PER CENT NICKEL ALLOY STEEL TUBE 67-06 M17-70533
INDUCTION HEATING FOR LONGITUDINAL SEAM WELDING OF TUBES WITH SURROUNDING HEATING INDUCTOR 67-07 M11-72426
PRODUCING TUBES ON ELECTRICAL TUBE-WELDING UNIT 73-219 67-07 M11-72857
WELDING METHODS TO PRODUCE TUBES AND SHAPES. PT. 1 67-07 M11-73710
SOME REGULARITIES IN WELD PENETRATION DURING BUTT WELDING OF TUBES IN STATIONARY POSITION 67-08 M11-74373
MANUFACTURING WELDED TUBES OF LOW-ALLOY STEELS 67-08 M11-74374
PROGRAMMING THE CONDITIONS FOR PULSATING ARC WELDS ON PIPES 67-08 M11-74765
MONITORING THE PARAMETERS IN RADIO FREQUENCY WELDING OF TUBES 67-08 M11-74774
PLASMA WELDING IN TUBE PRODUCTION 67-08 M11-75012
STUDY OF THE EFFECT OF CERTAIN HEATING PARAMETERS ON THE QUALITY OF WELD SEAM IN TUBES OBTAINED BY CONTINUOUS FURNACE BUTT WELDING 67-08 M11-75013
STUDY OF HEATING STRIP DURING CONTINUOUS FURNACE WELDING OF TUBES 67-08 M11-75014
EXPANDED LARGE DIAMETER WELDED PIPES OF TWO-LAYER STEEL 67-08 M11-75728
APPARATUS WITH ROTATING CONTACT ROLLERS FOR RADIOFREQUENCY WELDING OF PIPES 67-09 M11-76843
PROBLEM OF MECHANIZED WELDING OF DRILL PIPES MADE OF D BRAND STEEL 67-09 M11-76845
AUTOMATIC TEMPERATURE CONTROL DURING INDUCTION WELDING OF PIPES 67-09 M11-76856
UNDERWATER WELDING AND CUTTING REPAIRS OF MARINE OIL INSTALLATIONS 67-09 M11-76886
WELDING METHODS IN THE PRODUCTION OF TUBES AND SHAPES. PT. 2 67-09 M11-77023
PRODUCING TUBES ON INDUCTION WELDING MILLS WITH REDUCTION 67-09 M11-77635
THE RESISTANCE WELDING OF STUDS TO BOILER TUBES 67-09 M11-78093
ARC BUTT WELDS BETWEEN STEAM SUPERHEATER TUBES MADE OF GRADES 12KH1MF AND 1KH18N12T --1KH18N12T-- STEELS 67-09 M11-78096
WELDING HIGH-PRESSURE PIPELINE UNDER FIELD CONDITIONS 67-09 M11-78123
A DEVICE FOR AUTOMATIC MEASUREMENT OF THE LENGTH OF LARGE-DIAMETER TUBE BILLETS 67-09 M11-78128
CONCERNING THE TRAVEL RATE OF THE WELDING ARC IN A MAGNETIC FIELD 67-10 M11-78403
RADIOFREQUENCY WELDING OF ULTRA-THIN-WALLED HELICAL-SEAMED TUBES 67-10 M11-78433
WELDING WITH AN ARC ROTATED IN A MAGNETIC FIELD 67-10 M11-78516
WELDING HELPS MAKE PIPERS PAWNEE ONE OF THE SAFEST PLANES 67-10 M11-78661
EFFECT OF BLASTING STRIP EDGES ON WELD SEAM QUALITY IN TUBES MADE BY CONTINUOUS FURNACE WELDING 67-10 M11-78973
INVESTIGATION OF ROLL METAL PRESSURE AND TORQUE ON THE SPINDLES OF AN EXPERIMENTAL RADIO-FREQUENCY MILL 67-10 M11-78974
HELICALLY AND LONGITUDINALLY FINNED TUBING BY HIGH-FREQUENCY RESISTANCE WELDING 67-10 M11-79195
POWDER FILLED WIRE FOR THE SEMI-AUTOMATIC WELDING OF KH18N10T STEEL 67-10 M11-79618
HIGH-ENERGY-RATE PROCESSES 67-11 M11-80763
PRODUCTION OF TUBES IN MILLS WITH INDUCTION WELDING AND REDUCTION 67-11 M11-80923
WELDING HIGH PRESSURE PIPING WITHOUT PERMANENT BACKING RINGS 67-11 M11-81586
FORMATION OF HOT CRACKS WHEN FINISHING ARC WELDING AT AN INCREASED SPEED 67-12 M11-81909
CALCULATING THE HEATING OF THE EDGES OF A TUBULAR BILLET IN RADIOFREQUENCY WELDING 67-12 M11-81912
THE GAS-SHIELDED WELDING OF ALUMINIUM IN CONTAINER MANUFACTURE, WITH SPECIAL REFERENCE TO LOW-TEMPERATURE TECHNOLOGY 67-12 M11-81964
INTERNAL REINFORCEMENT FORMATION IN UNROTATED PIPE WELDS 67-12 M11-82246
PRODUCTION OF WELDED TUBES IN LOW ALLOY STEELS 67-12 M11-82247
NEW TECHNIQUES OF MANUFACTURING BRASS CONDENSER TUBING 67-12 M11-82494
OPTIMUM THERMAL CYCLE DURING RESISTANCE WELDING OF 12KH1MF STEEL 67-12 M11-82626
THERMAL EFFICIENCY OF A FAST-MOVING ARC 67-12 M11-83183
POWER EFFICIENCY OF ARC RESISTANCE BUTT WELDING OF STEEL TUBES 67-12 M11-83184
WELDING 1KH13M2S2 STEEL WITH OKH18N10T STEEL 67-12 M11-83187
A MACHINE FOR PULSATION ARGON ARC WELDING OF STATIONARY THICK-WALLED TUBES 67-12 M11-83190
INVESTIGATION OF THE WELDING OF ZIRCONIUM ALLOYS 67-12 M11-83281
VERY THIN SPIRAL SEAM TUBES WELDED WITH CURRENT AT RADIO FREQUENCIES 67-12 M11-83431

TUBING /METAL/, X RAY ANALYSIS
VISUAL X-RAY INSPECTION OF WELDED JOINTS 67-05 M19-69046
RADIOGRAPHY OF WELDMENTS 67-11 M19-80574

TUBULAR GOODS
SEE ALSO CASING /MATERIAL/
PIPE
TUBING /METAL/

TUBULAR GOODS, CORROSION
WELL TREATMENT WITH INERT GAS. INERT GAS VS SQUEEZE FOR CORROSION CONTROL 67-08 M18-75741
EVALUATION OF THICK FILM COATINGS. CORROSION PROTECTION FOR OIL CONTRY TUBING 67-08 M18-75746

TUBULAR GOODS, EXTRUSION
EXPERIMENTAL DETERMINATION OF CONTACT STRESSES IN PRESSING 67-07 M07-73949
COLD EXTRUSION OF PIECES FROM LOW-CARBON STEELS 67-07 M08-73957

TUBULAR GOODS, FORMING
CLOSED DIES WITH A SLIDING BLOCK FOR REDUCING BILLETS 67-08 M08-75485

TUBULAR GOODS, MACHINING
HIGHER EFFICIENCY OF PIPE AND TUBE CUTTING 67-10 M08-79784

TUBULAR GOODS, METAL FORMING
THE FEASIBILITY OF ROLL FORMING SPHERICAL BOTTOMS ON THICK-WALLED TUBULAR BILLETS 67-07 M08-73953

TUFFTRIDING
GEAR CAPACITIES MULTIPLY WITH BATH NITRIDING 67-03 M10-65013

TUFFTRIDING
IMPROVED NITRIDING PROCESS PROLONGS GEAR LIFE 67-04 M10-68172
BATH CONTROL KEY IN NITRIDING GEARS 67-07 M10-72993
FABRICATION AND TREATMENT OF EXTRUSION DIES. PT. 3 67-09 M10-76787
TOUGHER GEARS, LESS DISTORTION, RESULT OF NEW HEAT TREATMENT 67-10 M10-78578
TUMBLING
THROWING POWER OF NICKEL BARREL PLATING 67-02 M12-59160
RESIDUAL STRESSES AND WORK HARDENING DURING VIBRO-POLISHING 67-03 M12-65205
PRECISION DEBURRING CONDITIONS WORKPIECES WITHOUT DISTORTION OR CHANGE OF DIMENSION 67-12 M12-82380
TUNGSTATES, CRYSTAL LATTICES
RAMAN SPECTRA OF CAWO4, SRWO4, CAMOO AND SRMOO4 67-09 M13-77179
TUNGSTEN
TUNGSTEN NEWS 67-02 M01-59030
TUNGSTEN NEWS 67-04 M01-66125
REFRACTORY METALS CB, TA, MO, W 67-05 M01-68419
TUNGSTEN NEWS 67-07 M01-72753
TUNGSTEN NEWS 67-12 M01-81759
TUNGSTEN, ABSORPTION /MATERIAL/
CHEMISORPTION AND OXIDATION--OXYGEN ON TUNGSTEN 67-05 M18-68746
TUNGSTEN, ADSORPTION
INVESTIGATION OF THE ADSORPTION AND ELECTRON EMISSION OF CESIUM FILMS ON A TUNGSTEN SINGLE CRYSTAL 67-09 M13-76785
ABSORPTION OF LITHIUM ON SINGLE-CRYSTAL TUNGSTEN FACES COATED WITH AN ADSORBED OXYGEN FILM 67-09 M14-76779
INVESTIGATION OF ADSORPTION OF CESIUM ON A TUNGSTEN SINGLE CRYSTAL 67-10 M14-79543
ADSORPTION AND ELECTRON EMISSION OF POTASSIUM FILMS ON TUNGSTEN SINGLE CRYSTAL FACES 67-10 M15-79443
ADSORPTION OF NITROGEN ON SINGLE-CRYSTAL FACES OF TUNGSTEN 67-11 M14-80522
TUNGSTEN, ALLOYING
BEHAVIOR OF IMPURITIES WHEN PRODUCING COMPACT TUNGSTEN 67-02 M03-60962
TUNGSTEN, ALLOYING ADDITIVE
EFFECT OF MOLYBDENUM, NIOBIUM, AND TUNGSTEN ON THE STRUCTURE AND PROPERTIES OF AUSTENITIC CHROMIUM-MANGANESE STEELS CONTAINING NITROGEN 67-01 M17-58070
ESTABLISHMENT OF DIAGRAMS OF STRUCTURES OF CHROMIUM AND TUNGSTEN STEELS ON THE BASIS OF THE EXTENT IN SPACE OF THE AUSTENITE DOMAIN IN THE TERNARY ALLOYS IRON---CHROMIUM OR TUNGSTEN---CARBON 67-02 M13-58928
INVESTIGATION OF THE EFFECT OF COMPLEX ALLOYING ON THE PHYSICAL AND MECHANICAL PROPERTIES OF NIOBIUM 67-02 M17-59873
THE EFFECT OF MOLYBDENUM, TUNGSTEN AND VANADIUM ON THE ANNEAL HARDENING OF COLD WORKED 18 CR-12 NI STAINLESS STEEL 67-02 M17-60147
STRUCTURE AND SOME PROPERTIES OF A CB-TA ALLOY WITH ADDITIONS OF W AND MO 67-04 M17-66444
POSSIBILITY OF USING CASE-HARDENING STEELS CONTAINING TUNGSTEN 67-04 M17-67701
PHOTOELECTRIC PROPERTIES OF SILICON DOPED WITH COPPER, TUNGSTEN AND PLATINUM 67-05 M16-69380
EFFECT OF MOLYBDENUM AND TUNGSTEN ON THE PROPERTIES OF KH25N16G7AR STEEL 67-05 M17-68356
SUBSTITUTE TUNGSTEN STEELS IN THE AUTOMOBILE INDUSTRY 67-06 M10-71816
PRECIPITATION-HARDENING BEHAVIOR AND MECHANICAL PROPERTIES OF HEAT-RESISTING ALLOYS CONTAINING UP TO 35 PER CENT COBALT 67-06 M17-70599
PROPERTIES OF VANADIUM-BASE TUNGSTEN AND CHROMIUM ALLOYS 67-06 M17-71406
A PRIMER ON SOVIET SUPERALLOYS 67-06 M20-71819
ALLOYING STEEL WITH TUNGSTEN IN THE LABLE USING BRIQUETS 67-07 M04-73775
EFFECT OF MOLYBDENUM, TUNGSTEN AND COLUMBIUM ON THE RESISTING 20 PER CENT CO, 20 PER CENT CR, 20 PER CENT NI ALLOYS 67-07 M17-73028
SELF-DIFFUSION OF NIOBIUM IN CERTAIN NB-W ALLOYS 67-08 M14-75877
NEW SPANISH STEELS AND COPPER ALLOYS IN FORGINGS FOR THE AUTOMOTIVE INDUSTRY 67-09 M01-77900
ALLOYING STEEL WITH TUNGSTEN IN THE LADLE USING BRIQUETS 67-09 M04-76538
POSSIBLE APPLICATIONS OF TUNGSTEN CASE-HARDENING STEELS 67-09 M10-77885
FORMATION OF TUNGSTEN CARBIDE IN COMMERCIAL LOW-TUNGSTEN TOOL STEELS 67-09 M14-78225
LADLE-ALLOYING STEEL WITH TUNGSTEN 67-11 M04-81413
STRUCTURE AND SOME PROPERTIES OF NIOBIUM-TANTALUM ALLOYS CONTAINING TUNGSTEN AND MOLYBDENUM 67-11 M17-80985
ALLOYING 5KHNV STEEL OUTSIDE THE FURNACE 67-12 M04-82491
ALLOYING OF STEELS FOR PETROLEUM INDUSTRY TUBING 67-12 M10-83536
RESEARCH INTO THE INTERATOMIC REACTIONS IN NIOBIUM-TUNGSTEN-MOLYBDENUM SYSTEM ALLOYS 67-12 M17-82497
TUNGSTEN, ATOMIC PROPERTIES
MOSSBAUER EFFECT IN SURFACE STUDIES--FE57 ON W AND ON AG 67-09 M16-77684
ENERGY SPECTRA OF INELASTICALLY SCATTERED ELECTRONS AND LEED STUDIES OF TUNGSTEN 67-11 M16-81095
ATOMIC PERFECTION AND FIELD EMISSION FROM TUNGSTEN --110-- SURFACE 67-12 M16-83013
TUNGSTEN, ATOMIC STRUCTURE
OXIDATION OF THE --112-- FACE OF TUNGSTEN 67-10 M13-79550
TUNGSTEN, BENEFICIATION
RECOVERY OF TUNGSTEN FROM SCRAP 67-04 M03-68167
THE STATE-OF-THE-ART TUNGSTEN AND SCHEELITE --CAWO4-- ORE DRESSING AT THE TUX PLANT AS PRACTICED BY OAMAG 67-07 M02-73728
FLOTATION OF TUNGSTITE-BEARING ORES 67-08 M02-75166
TUNGSTEN, BINARY SYSTEMS
INTERDIFFUSION BETWEEN COMPONENTS AND THE PHASE DIAGRAM OF THE TI-W SYSTEM 67-01 M13-58099
ON THE TUNGSTEN-RICH REGION OF THE TUNGSTEN-SILICON PHASE EQUILIBRIUM DIAGRAM 67-02 M13-60742
STATE OF ORDERING AND THE ELECTRICAL RESISTIVITY IN THE QUASIBINARY SECTION NI4MO-NI4-W 67-02 M13-61896
HIGH-TEMPERATURE MOBILITY OF ATOMS OF MOLYBDENUM-TUNGSTEN SYSTEM COMPONENTS 67-04 M14-66262
THE DECOMPOSITION OF TUNGSTEN-CHROMIUM SOLID SOLUTION 67-07 M15-73905
TUNGSTEN-COBALT SYSTEM FOR COMPOSITIONS TO 85 ATOMIC PER CENT COBALT 67-08 M13-75309
PHASE DIAGRAM OF THE W-B SYSTEM 67-08 M13-75434
THE ALPHA-GAMMA EQUILIBRIUM IN FE-MN, FE-MO, FE-NI, FE-SB, FE-SN AND FE-W SYSTEMS 67-08 M13-75813
PHASE DIAGRAM OF THE UC-W SYSTEM AND DIFFUSION OF URANIUM FROM URANIUM CARBIDE INTO TUNGSTEN 67-10 M14-79636
TUNGSTEN, BRAZING
BRAZING OF MO AND W WITH SN-BASE BRAZING ALLOY 67-07 M11-72735
SOLDERING MOLYBDENUM AND TUNGSTEN WITH TIN BASE SOLDERS 67-12 M11-82314
TUNGSTEN, CEMENTED CARBIDES
A STUDY ON THE CO PHASE COMPOSITION CONTAINED IN WC -CO-BASE CEMENTED CARBIDES 67-01 M14-58333
TUNGSTEN, CHEMICAL PROPERTIES
CHEMISTRY OF METALS OF TUNGSTEN 67-06 M15-70163
TUNGSTEN, CHEMISORPTION
CHARACTERIZATION OF CHEMISORPTION BY LEED 67-10 M14-79549
TUNGSTEN, COATING
PROPERTIES OF COATED REFRACTORY METALS. PT. 2 67-01 M12-58003
THERMAL STABILITY OF CERAMIC COATINGS DEPOSITED ON METALS 67-02 M12-59607
REFRACTORY METALS PROTECTION 67-06 M12-71318
THERMAL SHOCK RESISTANCE OF CERAMIC COATINGS ON METALS 67-09 M12-76925
ELECTRODEPOSITION OF IRIDIUM FROM FUSED SODIUM CYANIDE AND AQUEOUS ELECTROLYTES. A PRELIMINARY STUDY 67-12 M12-81941
TUNGSTEN, COATINGS
THE PLASMA TECHNOLOGY OF TUNGSTEN 67-02 M12-60104
DEPOSITION OF THIN FILMS UNDER THE INFLUENCE OF FAST ION IRRADIATION 67-04 M12-67057
VAPOR PHASE FORMING 67-04 M12-68155
NON-FERROUS METALS RESEARCH 67-07 M01-74165

VAPOR-PHASE DEPOSITION OF REFRACTORY METALS BY THERMAL DECOMPOSITION OF REDUCTION OF ONE OF THEIR HALIDES 67-08 M12-76214
VAPOR DEPOSITION OF TUNGSTEN BY HYDROGEN REDUCTION OF TUNGSTEN HEXAFLUORIDE--PROCESS VARIABLES AND PROPERTIES OF THE DEPOSIT 67-09 M12-76625
ELECTRODEPOSITION OF COHERENT DEPOSITS OF REFRACTORY METALS. PT. 6. MECHANISM OF DEPOSITION OF MOLYBDENUM AND TUNGSTEN FROM FLUORIDE MELTS 67-09 M12-76627
FORMATION OF COATINGS DURING METALLIZING OF TUNGSTEN ONTO GRAPHITE 67-10 M12-78405
PLATING 67-11 M12-80480

TUNGSTEN, COMPOSITE MATERIALS
THE CHARACTER OF REACTION OF TITANIUM NITRIDE WITH THE IRON GROUP METALS, MOLYBDENUM, AND TUNGSTEN 67-02 M09-62213
FIBER-METAL COMPOSITES 67-03 M14-65346
ELECTRICAL RESISTIVITY AND CONDUCTIVITY OF TUNGSTEN-FIBER-REINFORCED COPPER COMPOSITES 67-04 M15-66944
A NEW TYPE OF COMPOSITE ALL-METAL ELECTRON EMITTER FOR VALVES AND ELECTRON-OPTICAL DEVICES 67-08 M15-74394
AN INVESTIGATION OF THE FATIGUE BEHAVIOR OF TUNGSTEN-REINFORCED AND STEEL- REINFORCED SILVER COMPOSITES 67-12 M17-82974

TUNGSTEN, CORROSION
OXIDATION CHARACTERISTICS OF VAPOR-PLATED TUNGSTEN 67-01 M18-58514
DONT OVERLOOK REFRACTORY METALS FOR CORROSIVE ENVIRONMENTS 67-02 M18-61099
RETARDATION OF THE OXIDATION RATES OF NIOBIUM, TANTALUM AND TUNGSTEN BY FLUORIDE COATING 67-04 M18-66164
CORROSION STUDIES OF TUNGSTEN MOLYBDENUM AND RHENIUM IN LITHIUM 67-04 M18-66390
USE OF THE REFRACTORY METALS IN CORROSIVE ENVIRONMENT SERVICE 67-05 M01-69103
USE OF THE REFRACTORY METALS IN CORROSIVE ENVIRONMENT SERVICE 67-11 M18-80295

TUNGSTEN, CRYSTAL GROWTH
GROWING PURE SINGLE CRYSTALS OF REFRACTORY METALS AND MEASUREMENT OF THE HALL EFFECT ON THESE 67-01 M14-58080
THE GROWTH OF NEEDLE-LIKE CRYSTALS ON TUNGSTEN IN ARGON 67-02 M14-60878
STUDY OF RECRYSTALLIZATION OF TUNGSTEN 67-10 M14-80066
STUDY OF WORK HARDENING AND RECOVERY IN MOLYBDENUM AND TUNGSTEN 67-12 M14-83520

TUNGSTEN, CRYSTAL LATTICES
A FIELD ION MICROSCOPE STUDY OF NEUTRON IRRADIATED TUNGSTEN 67-01 M16-57562
DISPLACEMENT SPIKES IN CUBIC METALS. PT. 1. ALPHA IRON, COPPER, AND TUNGSTEN 67-01 M16-58753
FIELD ION MICROSCOPIC OBSERVATIONS OF DISLOCATION STRUCTURES AT GRAIN BOUNDARIES 67-02 M13-61828
INTERACTION OF THE RELAXATION SPECTRUM AND HIGH-TEMPERATURE INTERNAL FRICTION BACKGROUND OF REFRACTORY METALS 67-04 M17-67648
SUGGESTIONS REGARDING CERTAIN OXYGEN STRUCTURES FORMED ON THE W --110-- SURFACE 67-05 M13-69039
RECOVERY OF DEFECTS IN NEUTRON-IRRADIATED TUNGSTEN 67-07 M14-73382
A FIELD ION MICROSCOPE INVESTIGATION OF OXYGEN IN TUNGSTEN 67-08 M13-75981
GAS BUBBLES IN THERMOCHEMICALLY DEPOSITED TUNGSTEN 67-09 M14-77477
INTERSTITIAL REMOVAL IN STAGE-311 RECOVERY OF NEUTRON-IRRADIATED W 67-10 M14-79280
ENERGY OF MOTION OF VACANCIES IN TUNGSTEN 67-10 M16-79151
STACKING FAULTS IN TUNGSTEN 67-11 M13-80233
EFFECT OF TEMPERATURE ON THE PENETRATION OF HEAVY KEV IONS IN MONOCRYSTALLINE SOLIDS. PT. 2. VARIOUS IONS IN GOLD, ALUMINUM, AND TUNGSTEN 67-11 M16-80323
FIBER TEXTURE IN DRAWN TUNGSTEN WIRES 67-12 M13-82733
MORPHOLOGIES OF BUBBLES AND VOIDS IN TUNGSTEN 67-12 M13-83064

TUNGSTEN, CRYSTAL STRUCTURE
THE ELECTRON BEAM MELTING OF TUNGSTEN. PT. 8. THE ELECTRON BEAM MELTING OF REFRACTORY METALS 67-05 M14-69857

TUNGSTEN, CUTTING
GAS-BORNE ABRASIVE CUTS BRITTLE MATERIALS 67-06 M08-71205

TUNGSTEN, DEPOSITION
INFLUENCE OF THE ACIDITY OF SOLUTION ON COPRECIPITATION OF CO AND W IONS 67-04 M12-67294

TUNGSTEN, DESORPTION
FIELD EMISSION MICROSCOPIC OBSERVATION OF EFFECTS OF OXYGEN OR AIR ON THE HIGH TEMPERATURE TUNGSTEN CATHODE 67-09 M14-77878

TUNGSTEN, DIFFUSION
CALCULATION OF DIFFUSION PARAMETERS 67-02 M14-61918
THE EFFECT OF P VAPOR ON COMMERCIAL NI AND W 67-05 M14-68586
THE DETERMINATION OF THE TEMPERATURE DEPENDENCE PARAMETERS OF THE DIFFUSION COEFFICIENT BY THE METHOD OF REDUCED TIME 67-05 M14-69609
THERMAL DIFFUSIVITY OF TUNGSTEN AT HIGH TEMPERATURES 67-06 M14-72042
DIFFUSION MECHANISM IN BODY-CENTERED CUBIC METALS 67-06 M14-72066
MUTUAL DIFFUSION OF COLUMBIUM WITH SOME REFRACTORY METALS 67-07 M14-74188
THE POSITION ENERGY AND ACTIVATION ENERGY OF DIFFUSION OF INTERSTITIAL IMPURITIES 67-08 M14-75077
HIGH-TEMPERATURE MOBILITY OF ATOMS OF THE COMPONENTS IN THE SYSTEM MOLYBDENUM-TUNGSTEN 67-10 M14-78994
SELF-DIFFUSION IN SINGLE AND POLYCRYSTALLINE TUNGSTEN 67-10 M14-80068
GRAIN BOUNDARY DIFFUSION IN TUNGSTEN 67-11 M14-81346

TUNGSTEN, ELECTRICAL PROPERTIES
WORK FUNCTION OF TUNGSTEN SINGLE CRYSTALS 67-04 M15-66512
COMMENTS ON THE LOW TEMPERATURE ELECTRICAL RESISTIVITY OF LATTICE DEFECTS IN DEFORMED TUNGSTEN SINGLE CRYSTALS 67-06 M15-70429
REPLY TO COMMENTS ON THE LOW TEMPERATURE ELECTRICAL RESISTIVITY OF LATTICE DEFECTS IN DEFORMED TUNGSTEN SINGLE CRYSTALS 67-06 M15-70430
WORK FUNCTION OF METALS 67-06 M16-70492
PRODUCTION AND PURITY CONTROL OF TUNGSTEN AND MOLYBDENUM SINGLE CRYSTALS 67-08 M01-75875
TWO-BAND CONDUCTION IN PT, W, AND PB 67-11 M16-80325

TUNGSTEN, ELECTRODEPOSITION
ELECTROLYTIC POLARIZATION ON ELECTRODEPOSITION OF TUNGSTEN ALLOYS. PT. 4. STUDIES OF ELECTRODEPOSITION OF TUNGSTEN ALLOYS 67-01 M12-58618

TUNGSTEN, ELECTRODES
REPORTS ON THE BEHAVIOR OF TUNGSTEN ELECTRODES IN TIG WELDING 67-02 M11-59758
A TUNGSTEN ELECTRODE FOR THE ARGON TUNGSTEN ARC WELDING OF METALS 67-02 M11-59800
PROPERTIES OF TUNGSTEN ELECTRODES USED IN TIG WELDING 67-02 M11-60102

TUNGSTEN, EMISSION
EMISSION AND ADSORPTION PROPERTIES OF THE W-LA SYSTEM 67-06 M16-70510

TUNGSTEN, EXTRACTION
CHLORIDE TREATMENT FOR PROCESSING PULVERIZED HARD-ALLOY TAILINGS 67-06 M03-70732
EXTRACTION OF MOLYBDENUM AND TUNGSTEN FROM ACID SOLUTIONS 67-07 M03-73408
OXIDATION KINETICS OF TUNGSTEN CARBIDE 67-10 M03-79136
PRECIPITATION OF MOLYBDENUM AND TUNGSTEN FROM ACID AQUEOUS SOLUTIONS --EXTRACTION WITH TRIBUTYL PHOSPHATE-- 67-10 M03-80074
HYDROMETALLURGICAL METHOD OF TREATING POWDER WASTE FROM HARD ALLOYS 67-12 M03-83325

TUNGSTEN, EXTRUSION
EXTRUSION AND FORMING UNDER HIGH FLUID PRESSURES 67-01 M07-58672
ON THE THEORY OF THE HYDROEXTRUSION OF BRITTLE METALS 67-05 M07-69664
LOW-TEMPERATURE EXTRUSION OF REFRACTORY METALS 67-06 M07-70474
LOW-TEMPERATURE EXTRUSION OF REFRACTORY METALS 67-10 M07-79674

TUNGSTEN, FASTENERS
METAL FASTENERS IN ULTRA-HIGH TEMPERATURES 67-05 M20-69556

TUNGSTEN, FIBER METALLURGY

EOS PROBES ELECTRODEPOSITED COMPOSITE STRUCTURES MARKET 67-02 M12-59482
A THEORY OF FIBER STRENGTHENING 67-02 M17-60630
FILAMENT-REINFORCED REFRACTORY METALS 67-07 M09-73360
FIBER-REINFORCEMENT OF METALS BY FILAMENT-WINDING AND ELECTROFORMING TECHNIQUE 67-10 M09-79171
THE STRENGTH OF TUNGSTEN-FIBER-REINFORCED ALUMINUM COMPOSITES AT HIGH TEMPERATURES 67-11 M17-81057
MICROSTRAIN BEHAVIOR OF METAL MATRIX COMPOSITES 67-11 M17-81129

TUNGSTEN, FILAMENTS
THE HEATING AND METALLOGRAPHY OF ULTRA-FINE RECRYSTALLIZED TUNGSTEN WIRE 67-02 M14-59007
SOME MECHANICAL PROPERTIES OF BORON-TUNGSTEN BORIDE FILAMENTS 67-11 M17-80315

TUNGSTEN, FORMING
EXPLOSIVE HOT FORMING OF STEELS AND REFRACTORY METALS 67-05 M08-69742
FORMING, DRAWING AND BLANKING PRODUCTION UNDER HIGH PRESSURE 67-07 M08-73220

TUNGSTEN, GRAIN STRUCTURE
SOME OBSERVATIONS ON BOUNDARIES IN TUNGSTEN 67-06 M13-70432

TUNGSTEN, HEAT TREATMENT
STUDY OF THE WORKS OF CARBURIZATION AND DECARBURIZATION OF TUNGSTEN RIBBONS BY THE MEASURE OF THEIR CONDUCTIVITY 67-02 M10-60984
THE SIGNIFICANCE OF A CONTROLLABLE COMPOSITON OF RESIDUAL GASES IN HIGH-TEMPERATURE INVESTIGATION OF METALS BY ELECTRON MICROSCOPY 67-09 M10-76464
ELECTRON DIFFRACTION ANALYSIS OF THE CARBURIZING OF THIN TUNGSTEN LAYERS ANNEALED IN VACUUM AT HIGH TEMPERATURES 67-10 M10-80067
STRESS RELIEF MECHANISM IN REFRACTORY METALS 67-11 M10-81421

TUNGSTEN, INTERMETALLICS
SUPERCONDUCTIVITY AND ISOTOPE EFFECT IN BE22X COMPOUNDS AND MOLYBDENUM 67-06 M16-71989

TUNGSTEN, IRRADIATION
THE SPUTTERING OF TRAPPED GAS FROM TUNGSTEN 67-08 M16-74389
INVESTIGATION OF SURFACE BOMBARDMENT DAMAGE BY LEED 67-10 M16-79546
ELECTRON-BOMBARDMENT DESORPTION OF CARBON MONOXIDE ADSORBED ON TUNGSTEN 67-11 M16-80120
INVESTIGATION OF THE EMISSIVITY OF SINTERED TUNGSTEN 67-12 M16-82216

TUNGSTEN, MACHINING
SPARK EROSION FABRICATION OF SINGLE CRYSTAL TUNGSTEN RIBBON FILAMENTS 67-04 M08-67402
PRODUCTION OF A TUNGSTEN JET-PIPE NECK AT THE SEPR PLANT 67-08 M08-75860
GAS-BORNE ABRASIVE CUTS BRITTLE MATERIALS 67-09 M08-76498

TUNGSTEN, MATERIALS
TUNGSTEN NEWS
AVENUE OF THE AMERICAS, NEW YORK, N. Y. 10020 67-09 M01-78101

TUNGSTEN, MECHANICAL PROPERTIES
THE FAILURE OF COPPER-TUNGSTEN FIBER COMPOSITES IN REPEATED TENSION 67-01 M17-57222
PROPORTIONAL-LIMIT STRESS OF TUNGSTEN SINGLE CRYSTALS 67-01 M17-57430
SINGLE CRYSTALS OF METALS 67-02 M14-60288
SOME CORRELATION PROCEDURES BASED ON THE LARSON-MILLER PARAMETER AND THEIR APPLICATION TO REFRACTORY METAL DATA 67-02 M17-59436
AN EVALUATION OF VARIOUS EQUATIONS FOR EXPRESSING FIRST-STAGE CREEP BEHAVIOR 67-02 M17-59438
DISCUSSION OF EFFECTS OF GRAIN SIZE ON TENSILE AND CREEP PROPERTIES OF ARC-MELTED AND ELECTRON BEAM-MELTED TUNGSTEN AT 2250 TO 4140 F 67-02 M17-59444
EFFECT OF CARBURIZATION ON THE SHORT-TIME STRENGTH OF TUNGSTEN, MOLYBDENUM AND TANTALUM AT HIGH TEMPERATURES 67-02 M17-59872
RELATION BETWEEN THE HARDNESS AND STRENGTH OF TUNGSTEN AND MOLYBDENUM OVER A WIDE TEMPERATURE RANGE 67-02 M17-60581
PLASTIC DEFORMATION OF TUNGSTEN SINGLE CRYSTALS AT LOW TEMPERATURES 67-02 M17-60632
FRACTURE OF TUNGSTEN SINGLE CRYSTALS AT LOW TEMPERATURES 67-02 M17-60633
VELOCITY OF PROPAGATION OF CLEAVAGE CRACKS IN TUNGSTEN 67-02 M17-60907
THE DEFORMATION CHARACTERISTICS OF NB, TA, MO AND W 67-03 M17-65760
VARIATION IN THE FINE CRYSTAL STRUCTURE AND TENSILE STRENGTH OF TUNGSTEN ON ANNEALING 67-04 M14-67642
INTERNAL FRICTION PEAKS IN DEUTERON-IRRADIATED TUNGSTEN 67-04 M17-66056
THE MECHANICAL BEHAVIOR OF REFRACTORY-METAL ALLOYS 67-04 M17-66196
ACTIVATION ENERGY OF THE TEMPERATURE BACKGROUND OF INTERNAL FRICTION 67-04 M17-66497
INVESTIGATIONS OF THE MECHANICAL PROPERTIES OF REFRACTORY MATERIALS AT HIGH TEMPERATURES IN A VACUUM AND IN AN INERT MEDIUM 67-04 M17-66860
CREEP AND TENSILE PROPERTIES OF HEAVILY DRAWN TUNGSTEN WIRE 67-04 M17-66926
STRESS-RUPTURE PROPERTIES OF TUNGSTEN WIRE FROM 1200 TO 2500 F 67-05 M17-68398
SOME PROPERTIES OF FLOATING ZONE MELTED MO, W AND TA. PT. 7. THE ELECTRON BEAM MELTING OF REFRACTORY METALS 67-05 M17-69856
ANOMALOUS TRANSMISSION IN STRAINED DUCTILE AND BRITTLE CRYSTALS BY THE DIVERGENT X-RAY BEAM METHOD 67-06 M14-71283
TENSILE TESTS AND STRESS-STRAIN MEASUREMENTS IN VACUUM AT HIGH TEMPERATURES 67-06 M17-71513
ORIENTATION DEPENDENCE OF YIELD IN BODY-CENTERED CUBIC METALS 67-06 M17-71531
MICROSTRAIN BEHAVIOR OF BODY-CENTERED CUBIC METALS 67-06 M17-71533
MEASURING THE ELASTIC MODULI OF INORGANIC FILAMENTS 67-07 M17-73136
PROPERTIES AND APPLICATIONS OF DISPERSION-STRENGTHENED METALS 67-09 M10-76723
ELASTIC DEFORMATION OF FIELD-ION-MICROSCOPE TIPS 67-09 M17-77433
STUDY OF CERTAIN RADIATION DEFECTS IN METALS BY MEASURING INTERNAL FRICTION AND ELASTIC MODULUS 67-10 M17-79903
DISLOCATION DENSITIES IN TUNGSTEN 67-11 M17-81271
RECRYSTALLIZATION, GRAIN GROWTH AND THE DUCTILE-BRITTLE TRANSITION IN TUNGSTEN SHEET 67-12 M17-81822
HARDENING OF POLYCRYSTALLINE REFRACTORY METALS AND ALLOYS 67-12 M17-81991
RESEARCH INTO THE DAMPING PROPERTIES OF CERTAIN HIGH-MELTING METALS AT HIGH TEMPERATURES IN A VACUUM 67-12 M17-83303

TUNGSTEN, MECHANICAL TESTS
ON A METHOD OF TENSILE TESTING OF TUNGSTEN AND MOLYBDENUM SINGLE CRYSTALS 67-05 M17-69634

TUNGSTEN, METAL WORKING
FABRICATION OF TUNGSTEN AND TUNGSTEN-25 PER CENT-RHENIUM TUBING 67-01 M07-58584
SOME CURRENT DEVELOPMENTS IN ELECTROFORMING 67-07 M12-73372
UNALLOYED TUNGSTEN--ARC-CAST MATERIAL 67-09 M07-77326

TUNGSTEN, METALLOGRAPHY
ELECTRON METALLOGRAPHY TECHNIQUES APPLIED TO BODY CENTERED CUBIC METALS AND ALLOYS 67-01 M13-58761

TUNGSTEN, MICROSCOPY
THE ION EMISSION MICROSCOPE 67-01 M13-57167
FIELD EVAPORATION OF METALS IN FIELD ION MICROSCOPE 67-08 M13-75083

TUNGSTEN, MICROSTRUCTURE
MORPHOLOGY AND TEXTURE OF CARBONYL MOLYBDENUM AND TUNGSTEN PRECIPITATES 67-02 M13-59930
VOIDS AT DISLOCATIONS IN IRRADIATED TUNGSTEN 67-05 M13-69224
STUDY OF THE ISOTHERMAL SOFTENING PROCESSES OCCURRING IN UNDOPED TUNGSTEN WIRE --0.38 MM-- 67-05 M13-69860
TRANSMISSION ELECTRON MICROSCOPIC STUDIES OF UNDOPED TUNGSTEN WIRE --0.38 MM-- ANNEALED ISOTHERMALLY AT 1180 C 67-05 M13-69861
A METHOD FOR PRODUCING ELECTRON MICROGRAPHS OF SLIP STEPS ON CYLINDRICAL METAL SINGLE CRYSTALS 67-06 M13-70247
ELECTRON MICROSCOPE HOLDERS FOR VIEWING THIN WIRE SPECIMENS AND FIELD-ION MICROSCOPE TIPS 67-06 M13-71016
DEFECTS IN DOPED TUNGSTEN SEEN WITH THE FIELD-ION MICROSCOPE 67-06 M13-71062
STRUCTURE OF LOW-ANGLE GRAIN BOUNDARIES IN

TUNGSTEN 67-06 M13-72363
MORPHOLOGY AND TEXTURE OF DEPOSITS OF CARBONYL MOLYBDENUM AND TUNGSTEN 67-07 M13-72585
PROOF OF DISLOCATIONS IN TUNGSTEN AND MOLYBDENUM BY ELECTROLYTIC ETCHING 67-08 M13-75601
THE THEORY OF THE EFFECT OF IMPURITIES ON THE GROWTH RATE OF GRAINS IN THE RECRYSTALLIZATION OF METALS 67-08 M14-75262
ELECTRON OPTICAL INVESTIGATION OF THE SECONDARY RECRYSTALLIZATION OF DRAWN TUNGSTEN WIRES BASED ON THERMAL ELECTRON EMISSION 67-09 M14-76799
THE FINE STRUCTURE AND PROPERTIES OF TUNGSTEN MONOCRYSTALS 67-10 M13-78965
DETECTION OF THE SUBSTRUCTURE OF W, MO AND RE SINGLE CRYSTALS 67-10 M13-79205
IMMERSED DOUBLE-JET TECHNIQUE FOR ELECTROTHINNING TUNGSTEN FOR TRANSMISSION ELECTRON MICROSCOPY 67-10 M13-80000
NATURE OF CREEP CAVITIES IN TUNGSTEN 67-12 M13-83065

TUNGSTEN, NONDESTRUCTIVE TESTING
THE MAGNETOINDUCTIVE TESTING OF W AND MO WIRES AND RODS 67-07 M19-73195
NONDESTRUCTIVE DETERMINATION OF MECHANICAL PROPERTIES OF REFRACTORY MATERIALS 67-08 M19-75522

TUNGSTEN, NUCLEATION
NATURE OF THE CRITICAL NUCLEUS IN HETEROGENEOUS VAPOR-SOLID NUCLEATION 67-02 M14-61575

TUNGSTEN, OPTICAL PROPERTIES
OPTICAL CONSTANTS OF INCANDESCENT REFRACTORY METALS 67-02 M15-60687
TUNGSTEN SHADOW CASTING FOR ELECTRON MICROSCOPICAL SPECIMENS 67-06 M15-71012

TUNGSTEN, OXIDATION
ADSORPTION OF OXYGEN ON TUNGSTEN AT TEMPERATURES FROM 300 TO 850 K 67-10 M14-78875
SURFACE OXIDATION OF TUNGSTEN AT ROOM TEMPERATURE 67-10 M18-79575
THE POSSIBILITY OF OXIDE FORMATION ON THE TUNGSTEN SURFACE AT ROOM TEMPERATURE 67-10 M18-79577

TUNGSTEN, PHYSICAL PROPERTIES
APPLICATIONS OF REFRACTORY METALS IN INDUSTRIAL FUR 67-01 M20-58451
THE SOLUBILITY OF TANTALUM AND TUNGSTEN IN LIQUID RARE-EARTH METALS 67-03 M14-65131
CHEMISORBED BETA PHASE OF NITROGEN ON TUNGSTEN 67-04 M14-67433
ADSORPTION OF NITROGEN ON THE --113-- PLANE OF TUNGSTEN SINGLE CRYSTALS 67-05 M15-68574
THERMAL AND ELECTRICAL PROPERTIES OF POROUS TUNGSTEN AND TUNGSTEN-MOLYBDENUM CATHODE MATERIALS 67-06 M15-70969
INVESTIGATIONS INTO THE MECHANISM OF TRAPPING OF INERT GAS IONS IN POLYCRYSTALLINE TUNGSTEN 67-08 M15-74786
THE THERMAL DIFFUSIVITY AND THERMAL CONDUCTIVITY OF METALS AT HIGH TEMPERATURES 67-10 M15-78346
THE SPECIFIC HEATS OF HIGH-MELTING METALS AT HIGH TEMPERATURES AND THE FORMATION OF VACANCIES IN THEM 67-10 M15-78347
REACTION OF WATER VAPOR AND TUNGSTEN 67-12 M14-83218

TUNGSTEN, POWDER METALLURGY
ROLE OF POWDER METALLURGY IN THE FABRICATION OF VERY LARGE PARTS 67-01 M09-58683
DEVELOPMENT TRENDS IN MODERN POWDER METALLURGY 67-01 M09-58717
ROLLING OF TUNGSTEN AND MOLYBDENUM AT LOW-PARTIAL PRESSURE OF OXYGEN 67-02 M09-61621
THE HIGH-TEMPERATURE SINTERING OF TUNGSTEN 67-02 M09-62205
SEPARATION OF TUNGSTEN POWDER 67-07 M09-72865
THE USE OF BLENDING PROCEDURES AND OF NICKEL ADDITONS IN THE COMPACTION OF AN ACICULAR ELECTROWON TUNGSTEN POWDER 67-07 M09-73404
HYDROSTATIC PRESSING OF POWDERS 67-07 M09-73861
THE EXTRUSION OF METAL POWDERS 67-07 M09-73867
SEMIAUTOMATIC INSTRUMENT FOR SEDIMENTOMETRIC ANALYSIS OF POWDERS 67-08 M09-74317
THE KINETICS OF METALLIC ACTIVATION SINTERING OF TUNGSTEN 67-08 M09-75292
UNALLOYED TUNGSTEN.. POWDER-METALLURGY MATERIAL 67-09 M09-77325
GRAIN GROWTH DURING SINTERING OF TUNGSTEN 67-09 M09-77460
THERMOEMISSIVITY OF ALLOYS OF W-LA203 SYSTEM 67-12 M09-81992
SEPARATION OF TUNGSTEN POWDER INTO FRACTIONS, USING A FLUIDIZED BED 67-12 M09-82173
ACTIVATION SINTERING OF TUNGSTEN WITH ADDITIONS OF PALLADIUM 67-12 M09-82207
ACTIVATED SINTERING OF TUNGSTEN AND MOLYBDENUM POWDERS 67-12 M09-82209
ACTIVATED SINTERING OF TUNGSTEN WITH SMALL ADDITIONS OF NICKEL 67-12 M09-82780
ACTIVATION SINTERING OF TUNGSTEN WITH ADDITIONS OF NICKEL 67-12 M09-83553
RECOVERY AND RECRYSTALLIZATION OF SINTERED TUNGSTEN WITH MINOR ADDITIONS OF NICKEL 67-12 M09-83559

TUNGSTEN, QUATERNARY SYSTEMS
A NEW QUATERNARY LIWV2O7.5 PHASE 67-05 M14-68920
PHYSICOCHEMICAL STUDY OF ALLOYS OF THE NIOBIUM-TUNGSTEN-MOLYBDENUM CHROMIUM SYSTEM 67-06 M14-70164

TUNGSTEN, RADIATION EFFECTS
RADIATION DAMAGE IN BODY-CENTERED METALS 67-04 M16-67314
FISSION FRAGMENT DAMAGE IN TUNGSTEN 67-05 M16-68761
INFLUENCE OF NEUTRON IRRADIATION ON SOME PROPERTIES OF TUNGSTEN 67-06 M16-72367

TUNGSTEN, REACTIONS /CHEMICAL/
DISSOLUTION OF METALS BY AC ELECTROLYSIS 67-01 M14-58583
INTERACTION OF OXYGEN WITH HOT TUNGSTEN 67-02 M14-60587
INTERACTION OF BORON WITH TUNGSTEN SINGLE CRYSTAL SUBSTRATES 67-02 M14-61572
INVESTIGATION OF ATTACK OF PURE RHENIUM AND TUNGSTEN BY MOLTEN LANTHANUM AND CERIUM 67-02 M14-62285
THE ROLE OF ADSORPTION IN HETEROGENEOUS VAPOR-SOLID NUCLEATION 67-03 M14-65391
THE OXIDATION OF TUNGSTEN AT HIGH TEMPERATURES. THE SYSTEM W PLUS CO2 67-03 M18-65676
KINETICS OF THE OXYGEN-TUNGSTEN REACTION AT HIGH TEMPERATURES 67-05 M14-68747
TUNGSTEN CRUCIBLES IN PYROCHEMICAL PROCESSING OF NUCLEAR FUELS 67-06 M01-70714
KINETICS OF THE ATTACK OF HIGH-TEMPERATURE MOLYBDENUM AND TUNGSTEN BY ATOMIC OXYGEN 67-06 M14-72165
POROSITY EFFECTS ON THE OXIDATION OF TUNGSTEN 67-07 M14-72653
NOBLE METALS, MOLYBDENUM AND TUNGSTEN IN HYDROCARBON SYNTHESIS 67-08 M14-76159
POROSITY EFFECTS IN THE IONIZATION OF CESIUM ON TUNGSTEN 67-09 M14-77444
POSITIVE AND NEGATIVE SELF-SURFACE IONIZATION OF TUNGSTEN AND RHENIUM 67-09 M16-76659
DESORPTION OF SURFACE ATOMS BY EMERGING HIGH-ENERGY ELECTRONS 67-10 M14-78869
SURFACE IONIZATION. PT. 1. DESORPTION OF U PLUS IONS FROM W AND RE SURFACES 67-10 M14-78876
SIGMOID OXIDATION OF POWDERED ALPHA-TUNGSTEN SPECIMENS UNDER OXYGEN PRESSURE OF 10-1 TO 10-3 TORR 67-10 M14-79712

TUNGSTEN, RECRYSTALLIZATION /METALLURGICAL/
THE EFFECT OF INERT GASES ON THE RECRYSTALLIZATION OF TUNGSTEN 67-04 M14-66005

TUNGSTEN, REFINING
THE ELECTRON BOMBARDMENT SMELTING FURNACE OF LA CIE PECHINEY 67-03 M03-65194

TUNGSTEN, REINFORCEMENT
THE REINFORCEMENT OF NICKEL-BASE ALLOYS WITH HIGH-STRENGTH TUNGSTEN WIRES 67-06 M17-70955

TUNGSTEN, ROLLING
STUDY OF THE DUCTILITY OF TUNGSTEN IN VACUUM ROLLING 67-12 M07-83331

TUNGSTEN, SEMICONDUCTORS
SUPPORT MATERIALS FOR SEMICONDUCTOR DEVICES 67-05 M16-68668

TUNGSTEN, SINGLE CRYSTALS
SURFACE ASYMMETRY MECHANISM FOR FRACTIONAL ORDER PEAKS OBSERVED IN LEED BEAMS FROM METALS 67-10 M16-79545
INELASTIC SCATTERING OF LOW ENERGY ELECTRONS FROM SURFACES 67-10 M16-79558
HIGH-ANGLE SUBSTRUCTURE IN ELECTRON BEAM ZONE-MELTED TUNGSTEN 67-11 M14-81356
DISLOCATION PINNING AND TEMPERATURE DEPENDENCE OF INTERNAL FRICTION 67-12 M17-82367

TUNGSTEN, SINTERING

ACTIVATED SINTERING OF TUNGSTEN WITH SMALL ADDITIONS OF NICKEL 67-06 M09-71459

TUNGSTEN, SOLUBILITY
THE SOLUBILITIES OF CARBON, TANTALUM, TUNGSTEN AND RHENIUM IN LIQUID PLUTONIUM 67-06 M15-70890
THE SOLUBILITY OF CHROMIUM IN LIQUID SILVER AND MOLYBDENUM AND TUNGSTEN IN LIQUID TIN 67-12 M14-82726

TUNGSTEN, SURFACE PROPERTIES
INVESTIGATION OF THE ADSORPTION OF LITHIUM ON THE SURFACE OF A TUNGSTEN SINGLE CRYSTAL IN A FIELD-EMISSION PROJECTOR 67-03 M14-65630
ADSORPTION OF CO ON A TUNGSTEN --100-- SURFACE 67-04 M14-67432
MASS SPECTROMETRIC INVESTIGATION OF THE INTERACTION OF OXYGEN WITH A TUNGSTEN SURFACE 67-05 M16-69036
MECHANISM OF THE SORPTION OF OXYGEN ON THE --100-- FACE OF A TUNGSTEN SINGLE CRYSTAL 67-06 M15-70870
INVESTIGATION OF ADSORPTION OF CESIUM ON A TUNGSTEN SINGLE CRYSTAL 67-06 M16-71911
DETERMINATION OF POWDER SPECIFIC SURFACE BY FILTRATION OF RAREFIED GAS 67-08 M09-75420
ION BOMBARDMENT OF W BY INERT-GAS IONS AND SUBSEQUENT ADSORPTION OF O2 AS OBSERVED IN THE FIELD EMISSION MICROSCOPE 67-08 M14-75047
SURFACE IONIZATION OF SOME RARE EARTH ELEMENTS ON HOT POLYCRYSTALLINE TUNGSTEN SURFACE 67-12 M16-81769

TUNGSTEN, TERNARY SYSTEMS
PHASE EQUILIBRIA IN THE SYSTEM ZR-W-C 67-02 M13-60577
STUDY OF THE PHASE DIAGRAM OF THE W-MO-TI TERNARY SYSTEM 67-03 M13-65792
THE ZRC-MO PHASE DIAGRAM 67-04 M14-67236
HIGH-TEMPERATURE CONDENSED-PHASE EQUILIBRIA IN THE SYSTEM TI-W-O 67-05 M14-68216
INVESTIGATIONS OF THE SYSTEMS --MO, W-----FE, CO, NI---B 67-06 M13-70219
W-CR-C TERNARY SYSTEM 67-06 M14-69993
X-RAY DIFFRACTION STUDY OF THE SYSTEM NIOBIUM-TUNGSTEN-BORON 67-07 M13-73278
THE W-V-SI SYSTEM 67-08 M13-75436
RESEARCH INTO CERTAIN PROPERTIES OF W2B-WC SYSTEM ALLOYS 67-09 M13-76955
STUDY OF ATOMIC INTERACTION IN ALLOYS OF THE COLUMBIUM-TUNGSTEN-MOLYBDENUM SYSTEM 67-10 M16-79730
STUDY OF THE W-TA-RE SYSTEM BY THE DIFFUSION LAYER METHOD 67-11 M13-81174

TUNGSTEN, THERMAL PROPERTIES
A USEFUL RELATIONSHIP BETWEEN ATOMIC VIBRATION AMPLITUDES AND THERMAL EXPANSION FOR CUBIC SOLIDS 67-02 M15-59099
DISSOLUTION CALORIMETER IN TIN AND APPLICATION TO THE STUDY OF CERTAIN ORDER-DISORDER TRANSFORMATIONS 67-04 M14-66047
STUDY OF HEAT RESISTANCE TO THERMAL CYCLIC FATIGUE IN REFRACTORY METALS BY AN INTERNAL FRICTION METHOD 67-04 M15-67833
THERMAL TRANSPORT IN TUNGSTEN 67-09 M15-77843
THERMOPHYSICAL PROPERTIES OF TANTALUM, TUNGSTEN, RHENIUM, AND THEIR ALLOYS IN THE TEMPERATURE RANGE 1500 TO 3000 K 67-10 M15-79942

TUNGSTEN, THERMOCOUPLES
THE MATERIALS SELECTION PROBLEM AS RELATED TO THERMOCOUPLES USED TO MEASURE NUCLEAR REACTOR FUEL PIN TEMPERATURES UP TO 2800 C 67-07 M20-73131

TUNGSTEN, THIN FILMS
FACE-CENTERED-CUBIC TUNGSTEN FILMS 67-04 M14-68073
GROWTH AND PREFERRED ORIENTATIONS OF LARGE ELONGATED GRAINS IN DOPED TUNGSTEN SHEET 67-06 M13-69949

TUNGSTEN, TRANSPORT PROPERTIES
ELECTRONIC TRANSPORT IN TUNGSTEN 67-09 M15-77103
THERMIONIC PROPERTIES OF TUNGSTEN IN IODIDE VAPORS 67-09 M16-76481

TUNGSTEN, WELDING
ELECTRON MECHANISM OF DIFFUSION WELDING 67-04 M11-66432
DIFFUSION BONDING BERYLLIUM, MOLYBDENUM AND TUNGSTEN 67-05 M11-68675
THE ELECTRON THEORY OF DIFFUSION WELDING 67-07 M11-72691
ELECTRON BEAM WELDING OF IMPREGNATED CATHODES OF ELECTROVACUUM DEVICES 67-08 M11-75416
THE ELECTRON-BEAM WELDING OF IMPREGNATED CATHODES FOR VACUUM-ELECTRIC DEVICES 67-12 M11-82037

TUNGSTEN, WIRE
AUTOMATION OF WIRE TESTING 67-07 M19-74159
A CRYSTALLOGRAPHIC INTERPRETATION OF THE PREFERRED ORIENTATION OF LARGE GRAINS IN DOPED TUNGSTEN WIRE 67-12 M13-82873
SOME OBSERVATIONS ON CRACK EXTENSION IN TWO-PHASE MATERIALS 67-12 M17-82979

TUNGSTEN ARC CUTTING
SEE GAS TUNGSTEN ARC CUTTING

TUNGSTEN ARC WELDING
SEE GAS TUNGSTEN ARC WELDING

TUNGSTEN BASE ALLOYS
TUNGSTEN NEWS 67-02 M01-59030
TUNGSTEN NEWS 67-04 M01-66125
ZR, HF, TI NEWSLETTER 67-04 M01-66684
TUNGSTEN NEWS 67-07 M01-72753

TUNGSTEN BASE ALLOYS, ATOMIC PROPERTIES
NMR AND MAGNETIC SUSCEPTIBILITY OF CO MAGNETIC IMPURITIES IN TRANSITION METAL HOSTS 67-07 M16-73528

TUNGSTEN BASE ALLOYS, CHEMICAL ANALYSIS
THE SPECTROPHOTOMETRIC DETERMINATION OF CHROMIUM IN ANODIC POWDERS 67-05 M19-69618

TUNGSTEN BASE ALLOYS, COATING
PROTECTIVE COATINGS FOR REFRACTORY MATERIALS 67-08 M12-75862
OXIDATION RESISTANT COATINGS FOR REFRACTORY METALS IN AIRCRAFT GAS TURBINE ENGINES 67-12 M12-82078

TUNGSTEN BASE ALLOYS, COATINGS
THE INTIIAL STAGE OF ELECTRODEPOSITION OF TUNGSTEN ALLOYS BY USING RADIOISOTOPE W185. PT. 5. STUDIES OF ELECTRODEPOSITION OF TUNGSTEN ALLOYS 67-01 M12-58614
PLATING 67-11 M12-80480

TUNGSTEN BASE ALLOYS, CORROSION
INVESTIGATION OF THE OXIDATION OF TUNGSTEN-NIOBIUM ALLOYS 67-02 M18-59895
RESEARCH INTO THE HIGH-TEMPERATURE CORROSION-RESISTANCE OF ALLOYS OF TUNGSTEN WITH NIOBIUM AND TITANIUM 67-08 M18-75143

TUNGSTEN BASE ALLOYS, CRYSTAL GROWTH
PRODUCTION AND PROPERTIES OF MONOCRYSTALS OF HIGH-MELTING METALS AND ALLOYS 67-08 M14-75024
RECRYSTALLIZATION PARAMETERS OF REFRACTORY METALS ACCORDING TO INTERNAL FRICTION DATA 67-10 M14-79906

TUNGSTEN BASE ALLOYS, CRYSTAL LATTICES
FAULTING IN COLD WORKED TA-10 PER CENT RE AND W-20 PER CENT RE 67-01 M13-58455
THE IDENTIFICATION OF RHENIUM IN TUNGSTEN-RHENIUM ALLOYS USING THE FIELD-ION MICROSCOPE 67-10 M13-78906

TUNGSTEN BASE ALLOYS, DIFFUSION
DISTRIBUTION OF ELEMENTS DURING THE FORMATION OF SINTERED ALLOYS OF THE SYSTEM W-NI-FE 67-02 M14-62126
HIGH-TEMPERATURE MOBILITY OF ATOMS OF MOLYBDENUM-TUNGSTEN SYSTEM COMPONENTS 67-04 M14-66262

TUNGSTEN BASE ALLOYS, DISPERSION HARDENING
INVESTIGATION OF THE TECHNOLOGICAL CHARACTERISTICS OF W-NI-CU-ALLOYS CONTAINING DISPERSIVE INCLUSIONS OF ZIRCONIUM DIOXIDE 67-04 M09-66259

TUNGSTEN BASE ALLOYS, ELECTRICAL PROPERTIES
IMPROVED SURFACE IONIZATION EFFICIENCY BY HIGH WORK FUNCTION REFRACTORY METALS AND ALLOYS 67-03 M16-65870

TUNGSTEN BASE ALLOYS, ELECTRODEPOSITION
ELECTROLYTIC POLARIZATION ON ELECTRODEPOSITION OF TUNGSTEN ALLOYS. PT. 4. STUDIES OF ELECTRODEPOSITION OF TUNGSTEN ALLOYS 67-01 M12-58618

TUNGSTEN BASE ALLOYS, EXTRUSION
EXTRUSION AT TEMPERATURES APPROACHING 5000 F 67-01 M07-58673

TUNGSTEN BASE ALLOYS, MECHANICAL PROPERTIES
REFRACTORY METALS --CB, TA, MO, W-- 67-02 M01-61817
CREEP AND TENSILE PROPERTIES OF HEAVILY DRAWN TUNGSTEN WIRE 67-04 M17-66926
LOWER-COST TUNGSTEN-RHENIUM ALLOYS 67-06 M17-70013
ELASTIC PROPERTIES OF THORIATED W-MO AND W-MO-RE ALLOYS 67-06 M17-70799
REFRACTORY METALS --CB, TA, MO, W--

67-08 M01-75390
CREEP PROPERTIES OF REFRACTORY METAL ALLOYS IN ULTRAHIGH VACUUM 67-08 M17-76145
DUCTILE BRITTLE TRANSITION OF TUNGSTEN-MOLYBDENUM ALLOYS 67-09 M17-77784
REFRACTORY METALS CB, TA, MO, W 67-10 M01-79801
THE MECHANICAL BEHAVIOR OF REFRACTORY-METAL ALLOYS 67-11 M17-80791
ELASTIC PROPERTIES OF BINARY NIOBIUM ALLOYS CONTAINING TUNGSTEN, MOLYBDENUM, IRON AND NICKEL 67-11 M17-81170

TUNGSTEN BASE ALLOYS, METAL WORKING
FABRICATION OF TUNGSTEN AND TUNGSTEN-25 PER CENT-RHENIUM TUBING 67-01 M07-58584

TUNGSTEN BASE ALLOYS, MICROSTRUCTURE
OBSERVATION OF ELECTRODEPOSITED TUNGSTEN-COBALT ALLOYS UNDER TRANSMISSION ELECTRON MICROSCOPE 67-04 M13-66664
FIELD ION MICROSCOPE OBSERVATIONS OF A W-1 PER CENT OS ALLOY 67-11 M13-80770

TUNGSTEN BASE ALLOYS, OXIDATION
REACTION OF TUNGSTEN-COBALT ALLOYS WITH OXYGEN AT 1000 AND 1100 K 67-10 M18-78637

TUNGSTEN BASE ALLOYS, PHASE TRANSFORMATIONS
ALLOY PHASES IN W-RE AND MO-RE ALLOYS AT LOW TEMPERATURE 67-10 M14-78674

TUNGSTEN BASE ALLOYS, PHYSICAL PROPERTIES
WORK FUNCTION OF W-HF, TA-HF, NB-HF, RE-HF, RE-ZR, W-RE ALLOYS 67-02 M15-59929
WORK FUNCTION OF ALLOYS W-HF, TA-HF, NB-HF, RE-HF, RE-ZR AND W-RE 67-07 M15-72584
PREPARATION AND PHYSICAL PROPERTIES OF ALLOYS OF THE W-LAB6 SYSTEM 67-07 M15-73271
TECHNOLOGICAL CHARACTERISTICS OF W-NI-CU ALLOYS CONTAINING DISPERSED ZIRCONIUM DIOXIDE INCLUSIONS 67-10 M09-78991
SOME OF THE PHYSICAL PROPERTIES OF W-LAB6 ALLOYS 67-10 M15-78342

TUNGSTEN BASE ALLOYS, POWDER METALLURGY
THE COALESCENCE PHENOMENON IN LIQUID-PHASE SINTERING IN THE SYSTEMS TUNGSTEN-NICKEL-IRON AND TUNGSTEN-NICKEL-COPPER 67-02 M09-62108

TUNGSTEN BASE ALLOYS, REACTIONS /CHEMICAL/
A STUDY OF THE COMPATIBILITY OF SELECTED REFRACTORY METALS WITH VARIOUS CERAMIC INSULATION MATERIALS 67-04 M18-67270

TUNGSTEN BASE ALLOYS,
RECRYSTALLIZATION OF TUNGSTEN IN W-NI-FE ALLOYS. PT. 1 67-08 M14-75433

TUNGSTEN BASE ALLOYS, ROLLING
THE REFRACTORY METALS SHEET ROLLING PROGRAM 67-06 M07-70124

TUNGSTEN BASE ALLOYS, THERMAL PROPERTIES
THERMOPHYSICAL PROPERTIES OF HEAT-RESISTANT TUNGSTEN-RHENIUM ALLOY VR-27-VT 67-06 M15-72043

TUNGSTEN BASE ALLOYS, THERMOCOUPLES
THE MATERIALS SELECTION PROBLEM AS RELATED TO THERMOCOUPLES USED TO MEASURE NUCLEAR REACTOR FUEL PIN TEMPERATURES UP TO 2800 C 67-07 M20-73131

TUNGSTEN BASE ALLOYS, TRANSPORT PROPERTIES
ELECTRIC TRANSPORT IN MOLYBDENUM-BASE ALLOYS 67-09 M15-77278

TUNGSTEN CARBIDE
THE PHYSICAL PROPERTIES OF HARD METALS 67-01 M15-58010
THE FINE STRUCTURE AND PROPERTIES OF TUNGSTEN MONOCRYSTALS 67-10 M13-78965

TUNGSTEN CARBIDE, BINARY SYSTEMS
SUPERCONDUCTIVITY OF THE TRANSITION-METAL CARBIDES 67-10 M16-78733

TUNGSTEN CARBIDE, BONDING
APPLYING CARBIDE COATINGS BY ADHESIVE BONDING 67-08 M12-74492

TUNGSTEN CARBIDE, CERMETS
THE STRUCTURE OF SINTERED TUNGSTEN CARBIDE-COBALT ALLOYS 67-01 M14-58341
EFFECT OF PLASTIC DEFORMATION ON THE PHYSICOMECHANICAL PROPERTIES OF TUNGSTEN CARBIDE-COBALT HARD ALLOYS 67-02 M09-61793
THE INFLUENCE OF THE AVERAGE GRAIN SIZE OF WC AND THE CONTENT OF THE BINDING COBALT PHASE ON X-RAY MEASUREMENTS OF MACROSTRESSES IN SINTERED CARBIDES OF THE SYSTEM WC-CO 67-07 M17-73464

TUNGSTEN CARBIDE, COATINGS
HARD FACING WITH SINTERED HARD-ALLOY ELECTRODES 67-02 M12-58944
THE PREVENTION OF METAL PART FAILURE BY THE USE OF PROTECTIVE COATINGS 67-07 M12-74244
WORKSHOP PRACTICE IN USING OF TUNGSTEN CARBIDE, TCD, WITH EDM PROCESS 67-12 M08-82945

TUNGSTEN CARBIDE, COMPOSITE MATERIALS
SOME PROPERTIES OF SINTERED WC-TAC-10 PER CENT CO ALLOYS 67-09 M09-78252

TUNGSTEN CARBIDE, CORROSION
SEALING CORROSIVE MATERIALS WITH HARD CARBON ALLOYS 67-08 M18-76197

TUNGSTEN CARBIDE, CRYSTAL LATTICES
X-RAY INVESTIGATION OF CUBIC TUNGSTEN CARBIDES IN SPARK MACHINED CERMETS AND CEMENTED TUNGSTEN CARBIDES 67-08 M14-74936
CHARACTERISTICS OF HARD METAL STRUCTURES IN THE ELECTRON MICROSCOPE 67-09 M13-76465

TUNGSTEN CARBIDE, DEPOSITION
ELECTRON DIFFRACTION ANALYSIS OF THE CARBURIZING OF THIN TUNGSTEN LAYERS ANNEALED IN VACUUM AT HIGH TEMPERATURES 67-10 M10-80067

TUNGSTEN CARBIDE, MACHINING
DIE PART OUTPUT DOUBLED WITH DE BEERS SYNTHETIC DIAMOND 67-01 M08-58787
TIME AND WHEEL SAVINGS IN ROUGH-GRINDING TUNGSTEN CARBIDE 67-01 M08-58788
EDM ELECTRODE MATERIALS AND ELECTRODE MATERIAL EVALUATION 67-04 M08-66354
THE IMPORTANCE OF PURITY IN PROCESSING TUNGSTEN CARBIDE 67-05 M08-68804
CARBIDE TOOL GRINDING AT A MODERN TRACTOR PLANT 67-07 M08-74167
EVALUATING DIAMOND GRINDING WHEELS FOR DRY GRINDING PURPOSES 67-09 M08-77021
AN EVALUATION OF THE ELECTROLYTIC GRINDING OF TUNGSTEN CARBIDE 67-09 M08-77549
THE ELECTROCHEMICAL MACHINING OF TUNGSTEN AND MOLYBDENUM CARBIDES 67-10 M08-78660
ELECTROCHEMICAL GRINDING OF HARD METALS 67-12 M08-82774

TUNGSTEN CARBIDE, MECHANICAL PROPERTIES
PLASTICITY, HARDNESS AND FRACTURE OF TUNGSTEN CARBIDES 67-03 M17-65671
AN EVALUATION OF NEW TITANIUM GRADE CARBIDE TOOL MATERIALS 67-06 M08-71483
BRIDGING THE GAP WITH THE NEW TITANIUM GRADE CARBIDES 67-06 M17-71587
RELATIONSHIP BETWEEN STRUCTURE, CREEP BEHAVIOR, AND HARDNESS OF ALLOYS IN THE WC-TIC-CO SYSTEM 67-07 M17-72679
FATIGUE OF THICK CYLINDERS--FURTHER PRACTICAL INFORMATION 67-07 M17-74087
INTERNAL FRICTION IN IRON-NICKEL HIGH-TEMPERATURE HARD ALLOYS 67-10 M17-79745

TUNGSTEN CARBIDE, METALLOGRAPHY
PREPARATION METHOD FOR REVEALING THE STRUCTURE OF CERMETS 67-08 M13-74942

TUNGSTEN CARBIDE, PHASE TRANSFORMATIONS
EFFECTS OF THE CARBON CONTENT ON THE PROPERTIES OF WC-TIC-CO ALLOYS 67-03 M14-65846

TUNGSTEN CARBIDE, PHYSICAL PROPERTIES
TUNGSTEN-CARBIDE SEAL HANDLES RANGE FROM MINUS 423 TO PLUS 800 F 67-07 M20-73616

TUNGSTEN CARBIDE, POWDER METALLURGY
MICROSTRUCTURE AND PROPERTIES OF TUNGSTEN-CARBIDE-COBALT HARD ALLOYS, THEIR MUTUAL EFFECTS AND THEIR DEPENDENCY ON THE INITIAL POWDERS 67-02 M09-59914
SEMIAUTOMATIC INSTRUMENT FOR SEDIMENTOMETRIC ANALYSIS OF POWDERS 67-08 M09-74317

TUNGSTEN CARBIDE, REACTIONS /CHEMICAL/
THE DISSOCIATION OF TUNGSTEN CARBIDE IN A LOW-TEMPERATURE PLASMA JET 67-09 M14-77273

TUNGSTEN CARBIDE, REDUCTION /CHEMICAL/
KINETICS OF JOINT CARBOTHERMIC REDUCTION OF NIOBIUM AND TUNGSTEN 67-12 M03-83095

TUNGSTEN CARBIDE, SEALS /STOPPERS/
MATERIALS FOR MECHANICAL SEALS 67-05 M20-69546

TUNGSTEN CARBIDE, SINGLE CRYSTALS
FLOATING-ZONE REFINING BY ELECTRON BOMBARDMENT 67-01 M14-57982
METALLOGRAPHIC INVESTIGATIONS ON WC SINGLE CRYSTALS 67-06 M13-70246

TUNGSTEN CARBIDE, STRESS EFFECTS
WHY BRAZED CARBIDE TIPS FAIL 67-07 M17-72994

TUNGSTEN CARBIDE, SURFACE PROPERTIES
DETERMINATION OF POWDER SPECIFIC SURFACE BY FILTRATION OF RAREFIED GAS 67-08 M09-75420

TUNGSTEN CARBIDE, THERMAL PROPERTIES
FUNDAMENTAL STUDY OF THE APPLICABILITY OF CARBIDES

TUNGSTEN CARBIDE

TO THE CONSTRUCTION OF HIGH-POWER TUBES
67-07 M20-73836
TUNGSTEN CARBIDE, WELDING
ELECTRON MECHANISM OF DIFFUSION WELDING
67-04 M11-66432
THE APPLICATION OF TUNGSTEN CARBIDE BY PERCUSSION
67-06 M11-72060
THE ELECTRON THEORY OF DIFFUSION WELDING
67-07 M11-72691
TUNGSTEN COMPOUNDS
SEE ALSO TUNGSTEN CARBIDE
TUNGSTEN NEWS 67-02 M01-59030
TUNGSTEN NEWS 67-07 M01-72753
TUNGSTEN COMPOUNDS, BENEFICIATION
INDUSTRIAL TESTS OF THE BENEFICIATION OF MOLYBDENUM-WOLFRAM ORE FROM THE MIKHAILOVGRADSKO PEREKOP DEPOSIT 67-02 M02-59544
INVESTIGATION OF THE FLOTATION BEHAVIOR OF TUNGSTEN MINERALS WITH SPECIAL CONSIDERATION OF GRAIN SIZE
67-02 M02-62249
STUDY OF THE FLOTATION PROPERTIES OF CASSITERITE, WOLFRAMITE, ILMENITE AND HEMATITE OF ONE OF THE ORE SITES OF THE VIET NAM DEMOCRATIC REPUBLIC
67-03 M02-65573
THE STATE-OF-THE-ART TUNGSTEN AND SCHEELITE --CAWO4-- ORE DRESSING AT THE TUX PLANT AS PRACTICED BY OAMAG 67-07 M02-73728
UPGRADING CRUDE TIN-TUNGSTEN CONCENTRATES
67-12 M02-81894
NITRIC ACID TREATMENT OF THE MOLYBDENUM-CONTAINING SCHEELITE CONCENTRATES 67-12 M02-83022
TUNGSTEN COMPOUNDS, BINARY SYSTEMS
OXIDATION RESISTANCE OF ALLOYS BASED ON TUNGSTEN AND NIOBIUM SILICIDES 67-07 M15-73280
TUNGSTEN COMPOUNDS, COATINGS
KINETICS OF WSI2 GROWTH ON SILICON
67-12 M14-82740
TUNGSTEN COMPOUNDS, CRYSTAL GROWTH
67-03 M14-65184
TRANSPORT REACTIONS OF THE SILICIDES AND BORIDES OF
TRANSPORT REACTIONS OF THE SILICIDES AND BORIDES OF TRANSITION METALS
TRANSITION METALS 67-03 M14-65184
TUNGSTEN COMPOUNDS, CRYSTAL LATTICES
STRUCTURE OF CUBIC TUNGSTEN NITRIDE
67-04 M13-66394
STRUCTURE OF CUBIC TUNGSTEN NITRIDE
67-05 M13-68592
THE TUNGSTEN BORIDES IN BORON FIBERS
67-06 M13-71620
BORON-RICH TUNGSTEN BORIDE 67-10 M13-80012
TUNGSTEN COMPOUNDS, CRYSTAL STRUCTURE
STUDIES ON STRUCTURAL DEFECTS IN WOLFRAM TRIOXIDE., INFLUENCE OF MINOR ADDITIONS OF TANTALA OR NIOBIA 67-02 M13-60923
TUNGSTEN COMPOUNDS, DECOMPOSITION
TREATMENT OF SCHEELITE CONCENTRATE WITH NITRIC ACID IN A HEATED BALL MILL 67-08 M03-75210
TUNGSTEN COMPOUNDS, ELECTRICAL PROPERTIES
DIELECTRIC CONSTANTS OF PBWO4 AND CAWO4
67-09 M15-77459
TUNGSTEN COMPOUNDS, EXTRACTION
ACID-EXTRACTION TREATMENT OF TUNGSTEN-MOLYBDENUM MATERIALS 67-11 M03-80755
TUNGSTEN COMPOUNDS, LUBRICANTS
NOW--A BETTER SOLID FILM LUBRICANT
67-07 M08-72988
TUNGSTEN COMPOUNDS, MECHANICAL PROPERTIES
SOME PROPERTIES OF WC-20 PER CENT CO AND WC-5 PER CENT TAC-20 PER CENT CO ALLOYS
67-02 M17-60151
TUNGSTEN COMPOUNDS, METAL WORKING
EXPLOSIVE METALWORKING 67-11 M08-80481
TUNGSTEN COMPOUNDS, OXIDATION
OXIDATION OF LOWER TUNGSTEN AND MOLYBDENUM SILICIDES 67-01 M18-57651
OXIDATION KINETICS OF TUNGSTEN CARBIDE
67-10 M03-79136
TUNGSTEN COMPOUNDS, PHYSICAL PROPERTIES
PROPERTIES OF WO3 MODIFIED BY THE SUBSTITUTION OF MO AND CR 67-06 M15-70605
REACTION OF WATER VAPOR AND TUNGSTEN
67-12 M14-83218
THE FREE ENERGIES OF FORMATION OF CRS, MO2S3, AND WS2 67-12 M15-82572
TUNGSTEN COMPOUNDS, POWDER METALLURGY
INVESTIGATION OF WC-CO CERMET 67-08 M09-75891
TUNGSTEN COMPOUNDS, REACTIONS /CHEMICAL/
ON THE RATE OF FORMATION OF WOLFRAMATES OF CERTAIN RARE EARTH ELEMENTS DURING HIGH TEMPERATURE SYNTHESIS 67-03 M14-65586
ON THE INTERACTION OF SCANDIUM OXIDE WITH TUNGSTEN TRIOXIDE 67-05 M14-68966
OXIDATION DATA FOR MOS2, WS2, WSE2, TAS2 AND TASE2 BY THERMOGRAVIMETRIC ANALYSIS
67-08 M14-76196
TUNGSTEN COMPOUNDS, REDUCTION /CHEMICAL/
ON THE PREPARATION OF SOME CHROMIUM, MOLYBDENUM AND TUNGSTEN BORIDES 67-12 M14-81830
TUNGSTEN COMPOUNDS, REFINING
STUDY OF CONDITIONS FOR CHLORINATING TUNGSTEN OXIDES AND THE FEASIBILITY OF DEEP REFINING THEM BY OXYCHLORIDE 67-06 M03-72111
PURIFICATION OF TUNGSTEN HEXACHLORIDE
67-09 M03-77691
TUNGSTEN COMPOUNDS, SYNTHESIS
A NEW FAMILY OF OXYGENATED BRONZES--THE CDXWO3 SERIES 67-02 M14-62286
A PROCESS FOR PREPARING TUNGSTIC TRIOXIDE OF HIGH PURITY FROM A CANADIAN SCHEELITE CONCENTRATE
67-03 M14-65567
TUNGSTEN COMPOUNDS, TERNARY SYSTEMS
REACTION OF CHROMIUM, MOLYBDENUM, AND TUNGSTEN BORIDES WITH CARBON 67-02 M14-61634
CONDENSED PHASE RELATIONS IN THE SYSTEMS ZRO2-WO2-WO3 AND HFO2-WO2-WO3 67-08 M13-76093
TUNGSTEN COMPOUNDS, TRANSPORT PROPERTIES
PHOTOELECTRIC MEASUREMENT OF TUNGSTEN SILICIDE AND N-TYPE SILICON BARRIERS 67-07 M15-72661
VACUUM THERMIONIC WORK FUNCTIONS AND THERMAL STABILITY OF TAB2, ZRC, MO2C, MOSI2, TASI2 AND WSI2 67-08 M16-75125
EFFECTS OF ORDERING ON THE TRANSPORT PROPERTIES OF SODIUM TUNGSTEN BRONZE 67-11 M15-81397
TUNGSTEN LAMPS
SEE INCANDESCENT LAMPS
TUNGSTEN STEELS, HEAT TREATMENT
FORMATION OF AUSTENITE IN TUNGSTEN STEELS
67-06 M14-70073
CERTAIN INFORMATION REGARDING THE COLD TREATMENT OF STEEL, IN PARTICULAR C6440 STEEL
67-10 M10-79857
FORMATION OF AUSTENITE IN TUNGSTEN STEELS
67-10 M14-78819
TUNNEL DIODES
INFLUENCE OF HYDROSTATIC COMPRESSION AND OF THE TEMPERATURE ON THE CHARACTERISTICS OF P-N TUNNEL JUNCTIONS IN GAAS 67-09 M15-76776
FOUNDATIONS OF CRYSTAL ELECTRONICS
67-10 M16-80002
PREPARATION OF RESTRICTED-AREA GAAS TUNNEL DIODES
67-11 M14-80835
TUNNEL DIODES, ELECTRICAL PROPERTIES
DECREASE OF BUILT-IN VOLTAGE IN TUNNEL DIODES CAUSED BY IRRADIATION 67-05 M16-69294
TUNNELING /PENETRATION PROBABILITY/
RESISTIVITY AND TUNNELLING PROPERTIES OF PARAMAGNETIC ALLOY FILMS 67-03 M15-65108
TUNNELING INVESTIGATION OF ENERGY-GAP ANISOTROPY IN SUPERCONDUCTORS 67-04 M16-66511
DETERMINATION OF THE ANISOTROPY OF THE ENERGY GAP IN SUPERCONDUCTING PB BY SUPERCONDUCTIVE TUNNELING 67-04 M16-68141
ELECTRON AND PHONON EFFECTS IN SUPERCONDUCTING FCC LEAD-BASED ALLOYS 67-07 M16-73312
BEHAVIOR OF ULTRATHIN ZIRCONIUM FILMS UPON EXPOSURE TO OXYGEN 67-09 M16-77446
TUNNELING IN METAL-OXIDE-SILICON STRUCTURES
67-11 M16-80537
TURBINE BLADES
HIGH-TEMPERATURE ALLOYS FOR TURBINE ENGINES ARE STEADILY IMPROVING 67-01 M20-57546
RECENT DEVELOPMENTS IN CAST NICKEL ALLOYS FOR HIGH TEMPERATURE USE 67-02 M17-61966
INVESTIGATION OF THE STRUCTURE OF SURFACE LAYERS AND THE THERMAL STABILITY OF CAST TURBINE BLADES IN STEADY AND NONSTEADY CONDITIONS OF HEATING
67-04 M15-66859
DROP FORGING. A SURVEY OF THE INDUSTRY IN THE U. K.
67-07 M07-72759
NEW HORIZON FOR INVESTMENT CASTING
67-09 M06-77185
SINTERED TURBINE BLADES FOR ARDUOUS TEMPERATURE AND STRESS CONDITIONS 67-10 M09-79794
INVESTMENT CAST BLADES WITHSTAND 1900 F
67-10 M20-79779
CM-R 41 --HIGH TEMPERATURE ALLOY--
67-11 M01-81249

TURBINE BLADES, CASTING
A BREAKTHROUGH IN MAKING TURBINE COMPONENTS-- DIRECTIONAL SOLIDIFICATION AND SINGLE CRYSTALS 67-02 M06-59458
CALCULATING THE GATING-FEEDING SYSTEMS FOR THIN-WALLED ELONGATED CASTINGS 67-04 M06-66416
CAST TURBINE BLADES 67-12 M06-82612
TURBINE BLADES, CLEANING
DRY HONING RESTORES STEEL BLADES 67-05 M12-68470
TURBINE BLADES, COATING
THE PREVENTION OF METAL PART FAILURE BY THE USE OF PROTECTIVE COATINGS 67-07 M12-74244
TURBINE BLADES, CORROSION
HOT CORROSION OF REFRACTORY ALLOYS BY COMBUSTION DEPOSITS CONTAINING LEAD 67-01 M18-57161
HIGH-TEMPERATURE CORROSION BY PRODUCTS OF COMBUSTION OF FUEL OILS OF HIGH AND MEDIUM DENSITY 67-02 M18-62015
CORROSION IN BLAST-FURNACE GAS TURBINES. CAUSES AND REMEDIES 67-02 M18-62025
EXPERIENCE WITH GAS TURBINES IN INDUSTRIAL INSTALLATIONS 67-10 M18-78769
CONTAMINATION AND CORROSION IN BLAST FURNACE TURBINE PLANTS 67-10 M18-79393
TURBINE BLADES, FORGING
STUDY OF THE STRESSED STATE IN THE DEFORMATION AREA DURING INGOT FORGING 67-04 M07-67042
NICKEL ALLOY STEELS FOR HEAVY FORGINGS 67-11 M01-80532
A NEW INTEGRATED FORGING FACILITY IN SCOTLAND 67-11 M07-80674
TURBINE BLADES, HEAT TREATMENT
STUDY OF A HEAT TREATING FURNACE WITH A SLIDING BOTTOM AND INTENSIVE RECIRCULATION OF COMBUSTION PRODUCTS 67-08 M10-75487
TURBINE BLADES, HEATING
USING MOLTEN GLASS TO HEAT STEEL BILLETS 67-07 M10-73955
TURBINE BLADES, MACHINING
ECM WORKS ON TURBINE BLADES 67-07 M08-72623
ELECTROCHEMICAL MACHINING AIRFOIL CONTOURS OF TURBINE BLADES 67-10 M08-79511
NEW NONCONVENTIONAL MACHINING PROCESS 67-10 M08-79514
VERO INDEXING-TYPE MACHINE FOR MILLING TURBINE BLADES 67-11 M08-80568
TURBINE BLADES, MATERIALS
THEORY OF ALLOYING AND SELECTION OF CREEP-RESISTING STEEL COMPOSITIONS FOR HIGHLY STRESSED TURBINE BLADE CASTINGS 67-02 M14-61016
SOME PROBLEMS OF CYCLIC HEAT RESISTANCE 67-06 M17-70746
NICKEL- AND COBALT-BASE ALLOYS 67-11 M01-80530
TURBINE BLADES, MECHANICAL PROPERTIES
NICKLE-AND COBALT-BASE ALLOYS 67-07 M01-74253
ENGINEERING APPLICATIONS OF BRITTLE FRACTURE RESEARCH 67-08 M17-75289
INFLUENCE OF DIFFERENT FACTORS ON STRENGTHENING OF THE KHN35VTYU --EI787-- ALLOY 67-08 M17-76014
A MODEL SYSTEM TO SIMULATE CREEP OF COMPOSITES 67-08 M17-76257
FATIGUE STRENGTH AND DAMPING PROPERTIES OF WELDMENTS OF KH17N2 AND D15L STEELS 67-12 M17-82632
TURBINE BLADES, NONDESTRUCTIVE TESTING
A SEMIAUTOMATIC APPARATUS FOR MEASURING THE DECREMENT OF THE FREE VIBRATIONS BY GAS TURBINE BLADES 67-04 M19-67859
TURBINE BLADES, PHYSICAL PROPERTIES
AIRCRAFT JET TURBINE BLADES INVESTIGATED BY THE INTERNAL FRICTION METHOD 67-04 M15-67858
TURBINE BLADES, WELDING
THE CONDITIONS UNDER WHICH WELDS COOL DURING THE WELDING OF HARDENABLE STEELS 67-02 M11-61053
INFLUENCE OF HEAT TREATMENT ON STRUCTURE AND BRITTLEMENTS OF FUSION ZONE OF PEARLITIC AND MARTENSITIC STEELS 67-06 M11-71644
INFLUENCE OF HEAT TREATMENT ON THE STRUCTURE AND TENDENCY TO EMBRITTLEMENT OF THE FUSION ZONE IN PEARLITIC AND MARTENSITIC STEELS 67-10 M11-79611

TURBINE GENERATORS
SEE TURBOGENERATORS
TURBINES
SEE ALSO GAS TURBINES
HYDRAULIC TURBINES
STEAM TURBINES
TITANIUM.. METAL WITH UNIQUE PROPERTIES 67-06 M20-70841
CORROSION AND RADIATION EFFECTS MUST BE MINIMIZED IN FUELS FOR AUTOMOTIVE TURBINE ENGINES 67-09 M18-77569
NIMONIC, NOMOCAST AND OTHER HIGH-NICKEL ALLOYS FOR VERY HIGH TEMPERATURE USE 67-10 M20-78374
THE DEVELOPMENT OF CHROMIUM-BASE ALLOYS FOR USE AT HIGH TEMPERATURES 67-12 M01-82079
OXIDATION RESISTANT COATINGS FOR REFRACTORY METALS IN AIRCRAFT GAS TURBINE ENGINES 67-12 M12-82078
TURBINES, MATERIALS
EFFECT OF TEMPERING CONDITIONS ON THE MECHANICAL PROPERTIES OF EI802 STEEL 67-02 M17-59634
INVESTIGATION OF THE STRESS-RUPTURE STRENGTH OF CAST AND FORGED 15KH1M1F STEEL 67-02 M17-59670
COATED COLUMBIUM ALLOYS FOR JET ENGINE TURBINE VANES 67-03 M18-65621
STUDY OF CREEP AND STRESS RELAXATION OF HIGH STRENGTH NONMAGNETIC MATERIALS 67-06 M17-71370
TURBINES, MECHANICAL PROPERTIES
SHORT DURATION CREEP AND RELAXATION OF HIGH-TEMPERATURE ALLOYS 67-12 M17-82158
TURBINES, NONDESTRUCTIVE TESTING
ON THE INFORMATIONAL VALUE OF ULTRASONIC TESTS WITH RESPECT TO EVALUATING DEFECTS AND TO THE SERVICEABILITY OF TURBINE ROTORS 67-06 M19-71509
TURBINES, SEALING
STUDY OF DRY FRICTION OF CERTAIN POWDER COMPOSITES AT HIGH RATES OF SLIP 67-02 M09-60895
TURBINES, STRUCTURAL MATERIALS
INFLUENCE OF THE STRUCTURE ON THE CREEP RESISTANCE OF REFRACTORY ALLOYS 67-08 M17-76040
TURBINES, WELDING
THE WELDING OF HIGH-STRENGTH STEELS AND SOME OF ITS PROBLEMS 67-11 M11-81131
TURBOGENERATORS
APPLICATION OF FRACTURE MECHANICS TO AN ALLOY STEEL USED IN TURBO-GENERATOR LOW-PRESSURE DISKS 67-04 M17-67417
PROBLEMS WITH TURBINE AND GENERATOR MATERIALS 67-06 M20-70726
TURBOJET ENGINES
HIGH-TEMPERATURE ALLOYS FOR TURBINE ENGINES ARE STEADILY IMPROVING 67-01 M20-57546
TURBOJET ENGINES, COMPONENTS
MATERIALS USED IN THE MACHINING OF HIGHLY HEAT-RESISTANT MATERIALS IN COMBUSTION ENGINE CONSTRUCTION 67-02 M08-59619
TURBOJET NOZZLES
SEE JET NOZZLES
TURBOMACHINERY
SEE TURBINES
TURBULENT FLOW
FUNDAMENTAL STUDY OF METAL FLOW IN STEEL FORGING. PT. 2 67-07 M07-73837
TRANSITION TO TURBULENT FLOW IN CRYSTALS 67-10 M11-78695

TURNING /MACHINING/
TRACER TURNS THINWALL PARTS 67-01 M08-57231
MACHINING EVALUATION OF HIGH-STRENGTH MARAGING STEEL 67-01 M08-58684
ON THE TURN-MACHINABILITY OF ALUSIL 67-02 M08-59119
SURFACE ROUGHNESS AS A FUNCTION OF CUTTING CONDITIONS IN THE TURNING OF STEEL 67-02 M08-60987
MACHINING DAMAGE STUDIES IN BERYLLIUM 67-03 M08-65294
THE TEMPERATURE DISTRIBUTION IN THE TOOL-CHIP CONTACT ZONE WHEN TURNING STEELS WITH CARBIDE TOOLS 67-03 M08-65989
HSS INSERTS TO THE RESCUE 67-05 M08-68308
FLEXIBLE LINE MAKES QUALITY PUMP GEARS 67-06 M08-71204
ON THE CUT-OFF TURNING TEST OF AL BAR 67-06 M08-71216
SPECIAL-PURPOSE TURNING MACHINE FOR TURNING BLANKS IN TUBE PRODUCTION 67-07 M07-72434
A SLIP-LINE FIELD SOLUTION FOR MACHINING WITH DISCONTINUOUS CHIPS 67-07 M08-74249
STATE OF THE SURFACE LAYER OF QUENCHED SHKH15 STEEL AFTER TURNING 67-07 M08-74288
MACHINING TOOLS FOR HIGHLY HEAT RESISTANT MATERIALS

TURNING /MACHINING/
IN AIRCRAFT POWER PLANT CONSTRUCTION 67-08 M08-74756
MACHINING TITANIUM ALLOYS 67-08 M08-75859
PRODUCTION OF A TUNGSTEN JET-PIPE NECK AT THE SEPR PLANT 67-08 M08-75860
ON THE TURN-MACHINABILITY OF LO-EX, AN ALUMINUM ALLOY 67-09 M08-78249
DIAMOND TURNING FOR BIG SAVINGS ON LARGE ALUMINUM PARTS 67-10 M08-79201
TURNING WITH CARBIDE TOOLS ON SINGLE SPINDLE AUTOMATIC LATHES 67-11 M08-80397
SOME CONSIDERATIONS ON THE TURNING OF ALUMINUM-MANGANESE CAST ALLOYS 67-12 M08-81904
MACHINABILITY OF MAGNESIUM ALLOY AZ 63 TURNING. STUDY ON THE MACHINING OF MAGNESIUM ALLOY. PT. 1 67-12 M08-83113
TURNING /MACHINING/, ALLOYING EFFECTS
ON THE TURNING MACHINABILITY OF ALUMINUM-MAGNESIUM CAST ALLOYS 67-02 M08-59991
TURNING /MACHINING/, STRESS EFFECTS
INFLUENCE OF THE BUILT-UP EDGE ON THE WEAR OF THE TOOL AND CERTAIN CUTTING CHARACTERISTICS 67-06 M08-71802
TURNINGS
SEE CHIPS
TURRET LATHES
LONG TUBES, LONG PARTS--HEIL CUTS CYLINDER COSTS 67-04 M08-68102
TUYERES
HYDRODYNAMIC INVESTIGATION OF TUYERES ARRANGED IN MANY ROWS IN SIDE-BLOWN CONVERTERS 67-01 M04-58151
STUDYING ROOF OXYGEN LANCES FOR CO OXIDATION ON AN AIR MODEL 67-02 M04-60079
THE COMBUSTION PROCESS AT BLAST FURNACE TUYERES 67-02 M04-61735
BLAST-FURNACE TUYERE WITH FUEL OIL FEED NOZZLE 67-03 M04-65948
OXYGEN BATH BLOWING USING TUYERES OF DIFFERENT DESIGN 67-04 M04-67238
CONTROLLING THE BLAST-FURNACE GAS FLOW PATTERN BY CHANGING THE TUYERE OVERHANG 67-05 M04-69068
STABILIZATION OF HEAT STATE OF BLAST FURNACE DURING INJECTION OF FUEL THROUGH TUYERES 67-06 M04-70112
ON THE NUMBER OF AIR TUYERES IN BLAST FURNACES 67-09 M04-77623
NUMBER OF TUYERES ON A BLAST FURNACE 67-11 M04-80911
BLAST FURNACE TUYERE 67-11 M04-81040
USE OF A MULTINOZZLE TUYERE FOR BLOWING A HIGH-MANGANESE IRON TO YIELD STEEL AND HIGH-MANGANOUS SLAG 67-11 M04-81620
MULTINOZZLE TUYERES IN THE LD PROCESS 67-12 M04-81781
TUYERE DESIGN FOR REFINING MOLTEN IRON 67-12 M04-81788
TUYERES, COATING
PLASMA SPRAYING OF BLAST FURNACE AIR TUYERES 67-08 M12-76266
PLASMA SPRAYING OF BLAST-FURNACE TUYERES 67-10 M12-79259
TUYERES, DESIGN
IMPROVED DESIGN FOR THE TUYERE TIPS OF A 100-TON OXYGEN CONVERTER 67-02 M04-59699
BURNING AND DISTRIBUTION OF GAS JETS IN A BLAST FURNACE AT VARIOUS TUYERE PROJECTIONS 67-02 M04-62257
BLAST FURNACE TUYERE COOLER 67-09 M04-76832
TUYERES, LINING /PROCESS/
REFRACTORY MASS FOR LINING TUYERE COMPONENTS 67-08 M05-74889
TUYERES, OXYGEN BLOWN CONVERTERS
INTRODUCTION OF A NEW DESIGN OF MULTIJET OXYGEN LANCE FOR CONVERTERS 67-06 M04-71251
TUYERES, SERVICE TIME
BLAST FURNACE TUYERES 67-02 M04-59567
GRAPHITE-CONTAINING TUYERES FOR BESSEMER CONVERTERS 67-02 M04-59779
COOLED TUYERE 67-02 M04-61068
OXYGEN TUYERES FOR METAL 67-09 M04-77756
TUYERES, WEAR
BLAST TUYERE OF A BLAST FURNACE 67-09 M04-76831
TWIN CARBON ARC BRAZING
SEE ARC BRAZING
TWINNING
SEE ALSO MECHANICAL TWINNING
STRENGTHENING MECHANISMS OF ORDERING ALLOYS. PT. 2 67-01 M13-57348
OBSERVATION OF THIN FILMS OF ZIRCONIUM UNDER THE TRANSMISSION ELECTRON MICROSCOPE 67-01 M13-58023
GROWTH TWINNING IN ALUMINUM ALLOYS 67-01 M14-57412
GROWTH OF DEFORMATION TWINS IN ZINC CRYSTALS 67-01 M17-57484
THE EQUILIBRIUM FORM OF A TWIN DELAYED AT AN OBSTACLE 67-02 M13-59669
ELECTRON MICROSCOPY OF THIN TWINS AND STACKING FAULTS 67-02 M13-60516
THE CONTRAST FROM TWIN BOUNDARIES IN --111-- FILMS OF SILVER 67-02 M13-60806
INFLUENCE OF PREVIOUS STRESSING ON THE DAMPING CAPACITY OF A MG-ZR ALLOY SHOWING A TWINNING PHENOMENON 67-02 M15-61021
THE ELECTRON MICROSCOPIC STRUCTURE AND LATTICE DEFECTS OF THE MARTENSITE IN COMMERCIALLY PURE TITANIUM 67-03 M13-65840
TRANSFORMATION TWINS IN TITANIUM 67-03 M13-65841
CHANGE OF THE DEFORMATION MECHANISM --SLIPTWINNING-- IN POLYCRYSTALLINE ALPHA-IRON 67-03 M17-65229
MICROSTRAIN COMPRESSION OF A BERYLLIUM, 4.37 PER CENT COPPER ALLOY PARALLEL TO THE C-AXIS 67-03 M17-65268
THE STRENGTH OF FERROUS MARTENSITES 67-03 M17-65330
THE NUCLEATION OF MECHANICAL TWINS IN POLYCRYSTALLINE 3 PER CENT SILICON-IRON 67-04 M13-66072
COHERENT --110-- BOUNDARIES OF BCC TWINS 67-04 M13-66074
SURFACE STRUCTURE AND CHEMICAL REACTIVITY OF ELECTRODEPOSITED NICKEL 67-04 M13-66270
PROPAGATION OF ELASTIC TWINS IN METALS 67-04 M13-67926
EFFECT OF NOTCH ACUITY ON BRITTLE FRACTURE BEHAVIOUR OF MILD STEEL AT 77 K 67-04 M17-66988
THE FORMATION OF LATTICE DEFECTS BY SHOCK WAVES 67-05 M13-69157
ENERGIES OF STACKING FAULTS AND TWINS FOR NORMAL METALS 67-05 M13-69460
COMPARATIVE TEXTURES OF SLOWLY AND EXPLOSIVELY LOADED METALS 67-05 M13-69745
THE SHOCK LOADING OF AUSTENITIC SINGLE CRYSTALS 67-05 M13-69746
INVESTIGATIONS OF THIN OXIDE FILMS. PT. 3. THE ELECTRON MICROSCOPIC INVESTIGATION OF ISOLATED ALPHA-FE203 AND NIO WHISKERS 67-05 M13-69838
THE NUCLEATION OF MILITARY TRANSFORMATIONS 67-05 M14-69728
TWINNING AND CLEAVAGE FRACTURE IN MOLYBDENUM SINGLE CRYSTALS 67-05 M17-68221
NUCLEATION OF DEFORMATION TWINS IN ZINC BICRYSTALS 67-05 M17-68294
TWINNING IN SHOCK-LOADED METALS AND ALLOYS 67-05 M17-69744
ORIENTATION OF TWIN PARTICLES IN ROLLED ALUMINUM INGOTS 67-06 M13-70214
TWINNING AND MORPHOLOGY OF EPITAXIAL LAYERS OF GAAS ON GE 67-06 M13-70513
STRESS-INDUCED MOVEMENT OF TWIN BOUNDARIES IN ZINC 67-06 M14-72225
TWINNING DURING PLASTIC DEFORMATION OF TITANIUM 67-06 M17-69982
THE MECHANICAL PROPERTIES OF ZINC SINGLE CRYSTALS AT HIGH STRAIN RATES 67-06 M17-71410
TWINNING PROCESSES IN THE ELECTROCRYSTALLIZATION OF FACE-CENTERED CUBIC METALS 67-07 M14-72952
PROCESSES CONTROLLING THE GROWTH OF DEFORMATION TWINS 67-08 M13-74408
THE FACTORS DETERMINING THE FREQUENCY OF OCCURRENCE OF ANNEALING TWINS 67-08 M13-75333
THE STRUCTURE AND ORIENTATION OF CRYSTALS IN DEPOSITS OF METALS ON MICA 67-08 M14-75368
ORIGIN OF MICROCRACKS IN MO-35 AT.PER CENT RE ALLOY 67-08 M17-75282
OXIDATION OF THIN FILMS OF IRON 67-08 M18-76227
TRANSMISSION ELECTRON MICROSCOPE STUDY OF THE MARTENSITE OF TITANIUM-3 WT PER CENT IRON ALLOY 67-09 M13-78242
INITIAL STAGE OF THE DEVELOPMENT OF TWINNING IN METAL CRYSTALS 67-10 M13-78384
MICROSTRUCTURAL RESEARCH INTO THE TRANSITION FROM

SLIP INTO TWINNING IN IRON 67-10 M13-78385
SPECIAL FEATURES OF INTERACTION BETWEEN TWIN CRYSTALS AND OBSTACLES 67-10 M13-78386
THE MICROSTRUCTURE OF SINGLE-CRYSTAL TITANIUM CARBIDE 67-10 M13-78666
MECHANICAL TWINNING OF PLATINUM AND IRIDIUM IN A FIELD-ION MICROSCOPE 67-10 M13-78667
INTERPLANAR ANGLES AND STANDARD PROJECTIONS OF TITANIUM 67-10 M13-78672
MULTIPLE TWINNED PARTICLES AT EARLIER STAGES OF GOLD FILM FORMATION ON ALKALIHALIDE CRYSTALS 67-10 M13-78716
DEFORMATIONS DURING THE INTERACTION OF TWINS AND MARTENSITIC PLATES WITH BARRIERS 67-10 M13-79236
INTERPRETATION OF ELECTRON DIFFRACTION PATTERNS 67-10 M13-80003
EFFECT OF STACKING FAULTS AND TWINS ON THE COERCIVE FORCE OF THIN MAGNETIC FILMS 67-10 M15-79162
CERTAIN SPECIAL FEATURES OF THE PLASTIC DEFORMATION OF COARSE-GRAINED AUSTENITIC STEELS 67-10 M17-78387
THE EFFECT OF CARBON AND NICKEL UPON THE STACKING-FAULT ENERGY OF IRON 67-11 M13-80107
TWINNING IN ZINC BY INDENTATION 67-11 M13-80128
X-RAY MEASUREMENTS OF STACKING FAULTS IN SILVER-ANTIMONY ALLOYS 67-11 M13-80490
MULTIPLICATION OF DISLOCATIONS IN ANTIMONY AND BISMUTH 67-11 M13-80733
DEFORMATIONS DURING INHIBITION OF TWINS BY BARRIERS 67-11 M13-81166
PHASE RELATIONS IN THE ZINC-RICH PORTION OF THE PLUTONIUM-ZINC SYSTEM 67-11 M14-80316
THE EFFECTS OF SOLUTES ON THE FRACTURE BEHAVIOR OF METALS 67-11 M17-80143
CLEAVAGE PHENOMENA AND TOPOGRAPHIC FEATURES 67-11 M17-80694
SUBSTRUCTURE OF MARTENSITE IN CARBON STEELS 67-12 M13-81835
ON STRUCTURAL DEFECTS OCCURRING DURING TWINNING OF SILICON IRON 67-12 M13-82412
DISLOCATION AND DEFORMATION MODES IN CHROMIUM SINGLE CRYSTALS 67-12 M13-82564
X-RAY STUDY OF COLD WORKED SILVER-ANTIMONY ALLOYS EFFECTS DUE TO EXTRINSIC STACKING FAULTS 67-12 M13-82586
FAULTING IN COLD WORKED FE-SI ALLOY FILINGS 67-12 M13-82723
THE IMPORTANCE OF TWINNING FOR THE DUCTILITY OF CPH POLYCRYSTALS 67-12 M13-82739
THE CRYSTALLOGRAPHY OF THE REVERSE MARTENSITIC TRANSFORMATION IN AN IRON-NICKEL ALLOY 67-12 M13-82761
QUANTITATIVE STUDY OF THE SUBSTRUCTURE AND PROPERTIES OF SHOCK-LOADED COPPER 67-12 M13-82860
EPITAXIAL GROWTH OF GOLD ON CADMIUM IODIDE 67-12 M14-82009
MECHANICAL PROPERTIES AND CLEAVAGE FRACTURE OF IRON SINGLE CRYSTALS AT 77 K 67-12 M17-81746
HARDNESS CHANGE OF FERROUS MARTENSITE BY DEFORMATION 67-12 M17-82396
PLASTICITY OF MAGNESIUM CRYSTALS 67-12 M17-82763
DEFORMATION MECHANISMS IN HEXAGONAL METALS WITH A C..A RATIO ABOVE 1.633 67-12 M17-83499

TWINNING, ALLOYING EFFECTS
A NOTE ON THE STRUCTURE AND GROWTH MECHANISM OF SPHEROIDAL GRAPHITE CRYSTALS IN ALLOYS CONTAINING CARBON 67-08 M14-74432
THE PLATE-LIKE MARTENSITE TRANSFORMATION IN FE-NI ALLOYS 67-11 M14-81262

TWINNING, IMPURITY EFFECTS
EFFECTS OF IMPURITIES ON THE STRUCTURE OF EPITAXIAL GOLD FILMS 67-09 M14-77461

TWINNING, PRESSURE EFFECTS
TWINNING IN BERYLLIUM BINARY ALLOYS DURING PRESSURIZATION IN A SOLID MEDIUM 67-12 M13-82859

TWINNING, RADIATION EFFECTS
THE INFLUENCE OF NEUTRON IRRADIATION ON TWINNING IN A NIOBIUM-VANADIUM ALLOY --40 PER CENT V-- 67-01 M14-58472

TWINNING, STRESS EFFECTS
TWINNING AND DEFORMATION OF BE BY THE CLIMB OF DISLOCATIONS 67-05 M13-69456
PLASTIC FLOW OF MARTENSITE 67-09 M13-76594
DEFORMATION TWINNING IN NI AND FCC FE-NI ALLOYS 67-09 M13-76596
MECHANICAL PROPERTIES OF IRON SINGLE CRYSTALS WITH VARYING ORIENTATIONS AS A FUNCTION OF TEMPERATURE 67-12 M13-82596

TWIST DRILLS
DRILL HOLE QUALITY IN DRILLING WITH TWIST DRILLS 67-06 M08-70044

TWIST DRILLS, METAL WORKING
COMMERCIAL PRODUCTION OF TWIST DRILLS BY THE SUPERFORGE PROCESS 67-02 M08-61564

TYPEWRITERS
MAGNESIUM DIE CAST COMPONENTS IN OFFICE MACHINES 67-07 M06-74001

UDYLITE PROCESS
SEE ELECTROPLATING

UGINE SEJOURNET PROCESS
SEE SEJOURNET PROCESS

ULTIMATE SHEAR STRENGTH
SEE SHEAR STRENGTH

ULTIMATE STRENGTH
SEE TENSILE STRENGTH

ULTIMATE TENSILE STRENGTH
SEE TENSILE STRENGTH

ULTRACENTRIFUGES
SEE CENTRIFUGES

ULTRAFINES, PELLETING
IMPROVED TECHNIQUES FOR PROCESSING STEEL PLANT FINES 67-08 M19-75318

ULTRASONIC CLEANING
SEE ALSO ULTRASONIC DEGREASING
VIBRATION CLEANING OF CASTINGS 67-06 M12-70750
ULTRASONIC CLEANING SYSTEM CUTS PLATING LINE COSTS 67-07 M12-74224
INDUSTRIAL APPLICATIONS OF ULTRASONICS 67-07 M19-72996
ULTRASONIC CLEANING TODAY 67-08 M12-74462
ULTRASONIC CLEANING TECHNOLOGY 67-09 M12-77707
INFLUENCE OF VARIABLES IN ULTRASONIC CLEANING 67-10 M12-79001
THE TREATMENT AND WORKING OF METALLIC SURFACES IN ULTRASONICALLY AGITATED BATHS 67-10 M12-79881
ULTRASONICS IN THE PLATING INDUSTRY 67-10 M12-79941
THE CONTINUOUS ULTRASONIC CLEANING OF WIRE AND STRIP 67-10 M12-79958
THE PREPARATION AND PRETREATMENT OF METAL SURFACES 67-10 M18-80097

ULTRASONIC DEGREASING
CLEANING OF PIGMENTED STAINS ON METAL SURFACES 67-04 M12-66350

ULTRASONIC MACHINING
THE INFLUENCE OF ULTRASONIC VIBRATIONS ON THE SURFACE OF MACHINED WORKPIECES, WITH SPECIAL REFERENCE TO THE MACHINING OF ALUMINUM 67-01 M08-58221
ULTRASONIC ASSISTANCE TO CONVENTIONAL METAL REMOVAL 67-01 M08-58519
CERAMIC PARTS 67-02 M05-61100
NINE METHODS FOR DIFFICULT-TO-IMPOSSIBLE JOBS 67-03 M08-65399
ULTRASONICS SPEED DIAMOND MACHINING 67-03 M08-65463
NEWER TECHNIQUES IN THE MACHINING OF METAL COMPONENTS 67-04 M08-67907
DIAMOND WHEELS PLUS ULTRASONICS CUT CERAMICS FASTER 67-06 M08-71340
NEW METHODS OF DRILLING DIAMOND WIRE DRAWING DIES--ULTRASONIC AND LASER 67-07 M08-72884
ULTRASONIC MACHINING OF BRITTLE MATERIALS 67-07 M08-73205
INDUSTRIAL APPLICATIONS OF ULTRASONICS 67-07 M19-72996
DIAMONDS BROADEN ULTRASONIC MACHINING 67-09 M08-77028

ULTRASONIC MACHINING, AUTOMATION
NEW METHODS OF DRILLING DIAMOND DIES--ULTRASONICS AND LASER BEAMS 67-10 M08-78571

ULTRASONIC PLATING
ULTRASONICS IN THE PLATING INDUSTRY 67-10 M12-79941

ULTRASONIC SPOT WELDING
SEE SPOT WELDING
ULTRASONIC WELDING

ULTRASONIC TESTING
INFLUENCE OF ULTRASONIC VIBRATION ON METALLIC FRICTION 67-01 M17-58560

ULTRASONIC INSPECTION OF RAILWAY AXLES
67-01 M19-58520
AUTOMATIC INSPECTION DURING FABRICATION OF INTERMEDIATE STEEL PRODUCTS 67-02 M07-62071
IN-PROCESS WELDING CONTROL PROVIDED BY ULTRASONICS
67-02 M11-60933
PREPARATION OF ORIENTED HG SINGLE CRYSTALS
67-02 M14-60921
NONDESTRUCTIVE MATERIAL TESTING IN THE PRODUCTION OF FUEL ELEMENTS 67-02 M16-60022
APPARENT SUPERCONDUCTING ENERGY GAP IN LEAD FROM ULTRASONIC MEASUREMENTS 67-02 M16-60529
DETERMINING THE STRESSED STATE OF MATERIALS BY ULTRASONICS 67-02 M17-60665
THE CONTINUOUS ULTRASONIC INSPECTION OF ELECTRORESISTANCE WELDED TUBING
67-02 M19-58850
ULTRASOUND HUNTS FOR WEAK SPOTS
67-02 M19-58972
INVESTIGATION OF THE EFFECT OF THE STRUCTURE OF ALLOYS ON THE DAMPING OF ULTRASONIC OSCILLATIONS
67-02 M19-59673
ULTRASONIC TESTING OF RESISTANCE WELDED JOINTS
67-02 M19-60138
ULTRASONIC DEFECTOSCOPY IN THE FABRICATION OF METAL STRUCTURES 67-02 M19-60194
ATTENUATION OF LAMB WAVES AT ULTRASONIC FREQUENCIES IN STEEL AT HIGH TEMPERATURES
67-02 M19-60260
INSPECTION OF WELDS BY ULTRASONIC METHODS
67-02 M19-60509
ULTRASONIC INSPECTION OF SMALL DIAMETER THIN-WALL TUBING 67-02 M19-60773
ULTRASONIC SCATTER IN METALS--ITS PROPERTIES AND ITS APPLICATION TO GRAIN SIZE DETERMINATION
67-02 M19-60774
TESTING OF SPOT WELDS 67-02 M19-60775
ULTRASONIC HARDNESS TESTING--QUICK AND NONDESTRUCTIVE 67-02 M19-60776
THE FUTURE OF ULTRASONIC CAMERAS IN INDUSTRIAL INSPECTION 67-02 M19-60777
PROSPECTUS FOR NDT IN THE SATURN AND ADVANCED SPACE FLIGHT PROGRAMS 67-02 M19-60917
THE PRESENT STATUS OF METHODS OF NONDESTRUCTIVE TESTING OF WELDED JOINTS 67-02 M19-61265
ADD TWO PLUS ONE FOR NDT--ULTRASONIC VIEW OF A SPOT WELD, MAGNETIC FIELD WHERE ITS NEEDED, GETTING A WELD GUARANTEE ON GAS PIPELINE
67-02 M19-61647
CRITICAL ULTRASONIC REFLECTIVITY--A NEGLECTED TOOL FOR MATERIAL EVALUATION 67-02 M19-61799
PROGRESS IN ULTRASONIC INSPECTION OF STEELS AT HIGH TEMPERATURE 67-02 M19-62035
NEW RESULTS IN ULTRASONIC WELD TESTING AND WALL THICKNESS MEASUREMENTS IN BOILER AND TUBING CONSTRUCTION 67-02 M19-62197
ULTRASONIC INSPECTION OF BUTT WELDS IN BOILER TUBES
67-03 M11-65055
RECENT ADVANCES IN NONDESTRUCTIVE TESTING TECHNOLOGY AT HANFORD 67-03 M19-65316
NONDESTRUCTIVE TEST DEVELOPMENT FOR ADVANCED AIRPLANES 67-03 M19-65317
THE UTILIZATION OF APPARENT DEFECT AND BACKGROUND ECHOES IN ULTRASONIC TESTING 67-03 M19-65325
EXCITATION OF LAMB WAVES IN THICK PLATES BY ULTRASONIC IMPULSES 67-03 M19-65602
QUALITY CONTROL OF ULTRASONIC WELDED JOINTS
67-04 M11-67803
THIRD-ORDER ELASTIC MODULI OF POLYCRYSTALLINE METALS FROM ULTRASONIC VELOCITY MEASUREMENTS
67-04 M17-66104
ULTRASONIC METHODS IN THE STUDY OF PLASTIC DEFORMATION 67-04 M17-66226
NEW YORK HARBOR CORROSION--PORT OF NEW YORK AUTHORITY CONDUCTS PILE SURVEY
67-04 M18-66317
AUTOMATED CHARGE LEVEL METERING
67-04 M19-66030
FORGING METALLURGY--STEEL. PT. 3. MODERN INSPECTION AND TESTING METHODS 67-04 M19-66170
A METALLURGICAL ASSESSMENT OF ULTRASONIC BILLET TESTING 67-04 M19-66656
COMBINED ECHO-SHADOW METHOD OF ULTRASONIC DEFECTOSCOPY 67-04 M19-66816
ULTRASONIC DEFECTOSCOPY OF SMALL-BORE PIPES
67-04 M19-66839
FACTORS AFFECTING THE POSITION OF THE INJECTION POINT OF ULTRASONIC OSCILLATIONS ON INSPECTING WELDS 67-04 M19-66840
A METHOD OF INSPECTING THIN SHEETS BY NORMAL WAVES
67-04 M19-67088
RECOMMENDATIONS ON THE USE OF ULTRASONIC INSPECTION OF BUTT WELDS 67-04 M19-67137
THE AUTOMATION OF ULTRASONIC TESTING OF FLAT-ROLLED PRODUCTS 67-04 M19-67201
ULTRASONIC FLAW DETECTOR FOR SEAMLESS TUBES
67-04 M19-67517
FLAW-MEASURING ULTRASONIC INSPECTION OF SEMIFINISHED METAL PRODUCTS 67-04 M19-67665
THE ULTRASONIC LOCATION OF DEFECTS IN FLASH WELDED RAILS 67-04 M19-67678
NONDESTRUCTIVE TESTING IN OIL INDUSTRY
67-04 M19-68025
INFLUENCE OF ULTRASONIC VIBRATION ON GRAIN GROWTH OF AUSTENITE DURING ANNEALING
67-05 M10-69510
AN ULTRASONIC METHOD OF DETERMINING GRAIN ORIENTATION OF TRANSFORMER STEEL
67-05 M13-69611
AN ULTRASONIC IMAGING LAMB-WAVE SYSTEM FOR REACTOR-FUEL-PLATE INSPECTION 67-05 M16-68801
CONTRIBUTION TO THE STUDY OF THE PHENOMENON OF FRACTURE OF METALS 67-05 M17-69111
THE PRESENT SITUATION IN THE NON-DESTRUCTIVE TESTING OF WELDS 67-05 M19-68265
ULTRASONIC TESTING OF MATERIALS
67-05 M19-68396
DEVELOPMENT OF ULTRASONIC TESTING TECHNIQUES FOR SATURN HONEYCOMB HEAT SHIELDS
67-05 M19-68441
THE ROLE OF ULTRASONIC MEASURING IN THE STRUCTURAL EVALUATION OF FERROUS MATERIALS, PARTICULARLY CAST IRON 67-05 M19-68596
APPLYING NDT TO WELDS 67-05 M19-68688
CONTROLLING WELD QUALITY BY ULTRASONICS
67-05 M19-68806
QUALITY EVALUATION OF MISSILE STRUCTURE SPOT-WELDED JOINTS 67-05 M19-69087
RADIOGRAPHIC CONTROL OF WELDMENTS
67-05 M19-69124
ULTRASONIC INSPECTION OF A TUBE OF SMALL DIAMETER AND THIN WALL 67-05 M19-69481
ULTRASONIC INSPECTION OF LARGE SOLID-FUEL BOOSTER NOZZLES 67-05 M19-69800
THE CHARGING OF SEMIKILLED STEEL INGOTS IN THE UPSIDE DOWN POSITION IN THE SOAKING PITS
67-06 M04-72292
INSPECTION AND DESEAMING LINE FOR SEMI-FINISHED ROLLED STEEL 67-06 M07-70243
THE MANUFACTURE AND TESTING OF COLD EXPANDED HIGH TEST LINE PIPE 67-06 M11-70026
IN-PROCESS QUALITY CONTROL OF ULTRASONIC WELDS IN COPPER SHEET 67-06 M11-70303
THE AUTOMATIC ULTRASONIC TESTING OF SPOT WELDS
67-06 M11-71222
ULTRASONIC LOSS MEASUREMENTS DURING ELASTIC-PLASTIC DEFORMATION AT THE YIELD POINT
67-06 M17-71174
ULTRASONIC NONDESTRUCTIVE TESTS. CORROSION AND MATERIAL FLAW DETECTION 67-06 M18-71225
ULTRASONIC WATER COLUMN PROBE SPEEDS UP TESTING OF WELDS 67-06 M19-70009
ON THE APPLICABILITY OF THE PLATE-WAVE METHOD TO ULTRASONIC TESTING 67-06 M19-70053
EXAMINATION OF BASIC BESSEMER RAIL STEEL
67-06 M19-70258
A BALANCED LOOK AT WELD INSPECTION
67-06 M19-70456
EDDY CURRENT AND ULTRASONIC TECHNIQUES FOR INSPECTION OF LARGE PARTS 67-06 M19-70684
UNIT CHECKS SPOT WELDS WHILE THEYRE BEING MADE
67-06 M19-70718
TWIN PROBES TRIM MARGIN OF ERROR
67-06 M19-71052
NONDESTRUCTIVE TESTING OF WELDS--ULTRASONIC AND RADIOGRAPHIC METHODS 67-06 M19-71234
ON THE INFORMATIONAL VALUE OF ULTRASONIC TESTS WITH RESPECT TO EVALUATING DEFECTS AND TO THE SERVICEABILITY OF TURBINE ROTORS
67-06 M19-71509
NEW TUBE TESTING EQUIPMENT 67-06 M19-71820
ULTRASONIC TESTING IN A LARGE STEEL WORKS
67-06 M19-71891
NONDESTRUCTIVE TESTING OF SPACE VEHICLE LIQUID PROPELLANT ROCKET ENGINES 67-06 M19-72094
NEW DEVELOPMENTS IN NONDESTRUCTIVE TESTING OF TUBES
67-06 M19-72097
COMBINED USE OF ULTRASONICS AND RADIOGRAPHY FOR THE

QUALITY CONTROL OF PIPE WELDS, WITH SPECIAL REFERENCE TO AUTOMATION 67-06 M19-72128
RELATIONSHIP BETWEEN ULTRASONIC DEFECT ECHOES FROM LOW-CARBON RIMMED STEEL BILLETS AND THE INTERNAL DEFECTS OF SEAMLESS TUBE. PT. 1. A STUDY OF THE PROPERTIES OF STEEL-TUBE BLANKS AND THE DEFECTS IN FINISHED STEEL TUBE 67-06 M19-72286
DETERMINING THE STRESS CONDITION IN MATERIALS BY MEANS OF ULTRASONICS 67-07 M17-73101
ULTRASONIC EXAMINATION OF CAST IRON 67-07 M17-73254
ULTRASONIC WALL THICKNESS GAGING OF BOILER TUBES 67-07 M19-72560
THE CONTINUOUS ULTRASONIC TESTING OF HOT ROLLED STRIP 67-07 M19-72681
INSPECTION AND DESEAMING LINES AT LYSAGHTS 67-07 M19-72794
APPLICATION OF ULTRASONICS IN THE INSPECTION OF RIMMED-STEEL SLAB INGOTS FOR CLEANNESS 67-07 M19-72890
INDUSTRIAL APPLICATIONS OF ULTRASONICS 67-07 M19-72996
ULTRASONIC INSPECTION OF FLAT ROLLED STEEL 67-07 M19-73024
ULTRASONIC MEASUREMENTS ON REINFORCED GRAVEL-AGGREGATE CONCRETES 67-07 M19-73073
NDT APPLIED TO PIPELINE CONSTRUCTION AND OPERATION IN THE U.S.A. 67-07 M19-73315
HIGH-RESOLUTION ULTRASONICS 67-07 M19-73316
COMPARISON BETWEEN ULTRASONIC INSPECTION SYSTEMS--MECHANICAL SCAN VERSUS TELEVISION IMAGING 67-07 M19-73317
INVESTIGATIONS INTO THE NONDESTRUCTIVE TESTING OF SPOT WELDS IN THICK PLATE WITH ULTRASONIC WAVES 67-07 M19-73714
NONDESTRUCTIVE TESTING OF BERYLLIUM 67-07 M19-73765
DETECTION BY RADIOGRAPHY AND ULTRASONICS OF LACK FUSION IN WELDS IN PIPELINES MADE BY THE CO2 PROCESS 67-07 M19-73889
ULTRASONIC INSPECTION OF WELDED JOINTS IN BOILER TUBES 67-07 M19-73975
CONSIDERATIONS FOR ESTABLISHING ULTRASONIC TEST ACCEPTANCE STANDARDS 67-07 M19-74028
WALL THICKNESS MEASUREMENTS BY NONDESTRUCTIVE METHODS IN THE PRODUCTION OF STEEL TUBES 67-07 M19-74110
ULTRASONIC INSPECTION OF HELICOPTER ROTOR BLADES 67-07 M19-74152
THE ULTRASONIC TESTING OF TUBES AND RODS 67-07 M19-74158
WELD-TESTING--OFFSHORE STRUCTURES 67-07 M19-74200
HIGHLY MECHANIZED INSPECTION AND DESEAMING LINES IN A STEELWORKS 67-07 M20-73373
EXCITATION CONDITIONS FOR LAMB WAVES IN THICK PLATES BY MEANS OF ULTRASONIC PULSES 67-08 M19-74527
MATERIAL TESTING IN CASTING TECHNOLOGY 67-08 M19-74754
MEASURING PIECES WITH UNPARALLEL SURFACES BY AN ULTRASONIC RESONANCE THICKNESS GAGE 67-08 M19-75350
NONDESTRUCTIVE DETERMINATION OF MECHANICAL PROPERTIES OF REFRACTORY MATERIALS 67-08 M19-75522
USING ULTRASONIC TESTING AS A FOUNDRY TOOL 67-08 M19-75540
ECONOMICS OF NONDESTRUCTIVE TESTING 67-08 M19-75556
MATERIAL TESTING BY ULTRASONICS 67-08 M19-75599
THE EFFECT OF DEFECTS IN BOILER TUBES ON THE APPLICABILITY AND INDICATIONS OF ULTRASONIC TESTING 67-08 M19-75673
ON-LINE ULTRASONIC INSPECTION OF COIL EDGES FOR ELECTRIC RESISTANCE WELDED PIPES USING A RESONANCE TRANSMISSION METHOD 67-08 M19-75805
METHODS OF TESTING THE ADHESION OF METAL COATINGS TO METALS 67-09 M17-76665
ULTRASONIC TESTING LOCATES DEFECTS IN METALS 67-09 M19-76479
POSSIBILITIES FOR THE USE OF NONDESTRUCTIVE TESTING FOR THE DETECTION OF DEFECTS IN THE PRODUCTION OF STEEL TUBES 67-09 M19-76696
QUALITY CONTROL OF CAST STEEL BY NONDESTRUCTIVE TESTING METHODS, ESPECIALLY BY ULTRASOUND 67-09 M19-77198
DRAFT RECOMMENDED PRACTICE FOR THE ULTRASONIC INSPECTION OF BUTT WELDS 67-09 M19-77814
NDT--THE KEY TO SUBMARINE WELD INTEGRITY 67-09 M19-77912
PROCEDURE FOR THE INSPECTION OF THIN SHEET WITH NORMAL MODES 67-09 M19-78068
ULTRASONIC TESTING FOR THE DETERMINATION OF BOND STRENGTH AND BOND QUALITY 67-10 M11-79882
ULTRASONIC DETECTION OF CRACK EXTENSION IN THE W. O. L. TYPE FRACTURE TOUGHNESS SPECIMEN 67-10 M17-79748
AN INVESTIGATION OF THE DESTRUCTION OF MATERIAL DURING CAVITATION AND CORROSION USING ULTRASONIC TRANSDUCERS 67-10 M18-79883
RECENT DEVELOPMENTS IN ULTRASONIC AND X-RAY TESTING METHODS 67-10 M19-78593
RECENT DEVELOPMENTS IN THE USE OF ULTRASONIC EQUIPMENT FOR DIMENSIONAL EVALUATION OF DEFECTS 67-10 M19-78862
METALLURGICAL IMPLICATIONS OF MODERN INSPECTION TECHNIQUES 67-10 M19-79306
NONDESTRUCTIVE TESTING OF ADHESIVE BONDS IN AIRCRAFT 67-10 M19-79437
POSSIBLE APPLICATIONS OF NONDESTRUCTIVE TESTING IN THE PRODUCTION OF STEEL TUBES. PT. 1. WALL THICKNESS MEASUREMENTS 67-10 M19-79479
POSSIBLE APPLICATIONS OF NONDESTRUCTIVE TESTING IN THE PRODUCTION OF STEEL TUBES. PT. 2. DEFECT DETECTION 67-10 M19-79480
NONDESTRUCTIVE TESTING METHODS FOR ASSESSING THE BEHAVIOR OF MATERIALS AT LONG TIME STRESS 67-10 M19-79481
NONDESTRUCTIVE TESTING OF RAILROAD AXLES BY ULTRASOUND 67-11 M19-80389
NONDESTRUCTIVE TESTING 67-11 M19-80483
ULTRASONICS CUT COST TO INSPECT STEEL CASTINGS 67-11 M19-80523
THE FEASIBILITY OF ULTRASONIC INSPECTION OF CONTACT WELDED JOINTS IN BOILER PIPES 67-11 M19-80559
ULTRASONIC STUDIES OF 1060 AND 6061-T6 ALUMINUM 67-12 M17-83270
ULTRASOUND INSPECTION OF MACROSTRUCTURE 67-12 M19-82308
RADIOGRAPHY IN SHIPBUILDING. PT. 1 67-12 M19-83116
SIGNIFICANT VARIABLES IN CHECKING THE PERFORMANCE OF ULTRASONIC INSPECTION SYSTEMS FOR STEEL 67-12 M19-83139

ULTRASONIC TESTING, AUTOMATION
BRIGHTSIDE INSPECTION AND DESEAMING LINES FOR LYSAGHTS 67-07 M19-72932
PRACTICAL EXPERIENCE IN ULTRASONIC TESTING OF HEAVY ROTOR FORGINGS AND POSSIBLE WAYS OF IMPROVING THE DEPENDABILITY OF INTERPRETATION BY AUTOMATION 67-07 M19-73072
ULTRASONICS RECORDS WELD FLAWS 67-08 M19-74366
THE AUTOMATIC ULTRASONIC TESTING OF BILLETS FOR INTERNAL DEFECTS 67-09 M19-76509

ULTRASONIC TESTING, QUALITY CONTROL
DOUBLE ULTRASONIC PROBE AIDS IN TUBE QUALITY CONTROL 67-09 M19-77150

ULTRASONIC WELDERS
BUDGET PRICED MACHINE MAKES WELDED 3-PIECE CANS FROM PREFINISHED ALUMINUM 67-06 M11-70229

ULTRASONIC WELDING
ULTRASONIC WELDING 67-02 M11-59967
ULTRASONIC WELDING IN 1966 67-03 M11-65813
ULTRASONICS IN ALUMINUM JOINING 67-04 M11-66248
ULTRASONIC WELDING WITH PULSED INDIRECT HEATING OF MICROCIRCUIT ELEMENTS 67-04 M11-66812
WELDING DESIGN AND PROCESS MANUAL--ALUMINUM 67-04 M11-67492
QUALITY CONTROL OF ULTRASONIC WELDED JOINTS 67-04 M11-67803
ULTRASONIC WELDING 67-06 M11-70202
BUDGET PRICED MACHINE MAKES WELDED 3-PIECE CANS FROM PREFINISHED ALUMINUM 67-06 M11-70229
IN-PROCESS QUALITY CONTROL OF ULTRASONIC WELDS IN COPPER SHEET 67-06 M11-70303
SOME FUNDAMENTAL PROBLEMS IN ULTRASONIC WELDING OF DISSIMILAR METALS 67-07 M11-74280
INDUSTRIAL APPLICATIONS OF ULTRASONICS 67-07 M19-72996
THE ULTRASONIC WELDING OF MICROCIRCUIT COMPONENTS 67-08 M11-75916
FORMATION OF WELDED JOINTS IN ULTRASONIC WELDING OF METALS 67-09 M11-77620

ULTRASONIC WELDING

ULTRASONIC WELDING OF ALUMINUM CONDUCTORS TO SPUTTERED GOLD FOILS 67-09 M11-78124
LOCK-SEAL--NEW ULTRASONIC PLASTIC WELDING TECHNIQUE 67-09 M11-78144
CHARACTERISTICS OF DIFFUSION PROCESS DURING ULTRASONIC WELDING OF COMMERCIAL IRON 67-09 M14-77418

ULTRASONIC WELDS
SEE ULTRASONIC WELDING
WELDED JOINTS

ULTRASONICS
ULTRASONIC TREATMENT IN METALLURGY AND FOUNDRY PRACTICE 67-01 M01-57153
EFFECT OF ULTRASONIC VIBRATIONS ON STRUCTURE AND PROPERTIES OF AL4 ALLOY 67-01 M06-57328
EFFECT OF ULTRASONICS ON THE CRYSTALLIZATION OF METALS AND ALLOYS IN THE SOLIDIFICATION PERIOD AND CHANGES IN STRUCTURE IN THE SOLID STATE 67-01 M14-57157
AMPLITUDE-DEPENDENT ULTRASONIC ATTENUATION IN NORMAL AND SUPERCONDUCTING LEAD 67-01 M16-57591
ELECTRONIC CONTRIBUTION TO THE NORMAL STATE ULTRASONIC ATTENUATION IN INDIUM 67-01 M16-57958
THEORY OF ULTRASONIC ATTENUATION BY NEUTRAL DONORS IN GERMANIUM 67-01 M16-57960
TREATING BORON STEELS BY ELASTIC VIBRATIONS 67-02 M06-61960
EFFECT OF ULTRASONIC VIBRATION ON DECOMPOSITION OF RESIDUAL AUSTENITE IN KHVG STEEL 67-02 M14-62268
MAGNETOACOUSTIC ATTENUATION OF CIRCULARLY POLARIZED ULTRASOUND IN SN, AL, AND SB 67-02 M15-60767
USE OF ULTRASOUND IN TENSILE TESTING OF METALS 67-02 M17-60666
ULTRASONIC PYROMETER 67-02 M19-58885
A CRITICAL LOOK AT ULTRASONIC METALWORKING PROCESSES 67-03 M08-65620
TRANSITION BETWEEN THEORY AND PRACTICE IN ULTRASONIC METAL DEFORMATION PROCESSING 67-03 M08-65812
ELASTIC WAVE VELOCITIES IN CUBE-TEXTURED COPPER SHEET 67-03 M13-65092
ULTRASONIC ATTENUATION IN CADMIUM SULFIDE FROM 1.8 TO 300 K 67-03 M15-65868
ON THE SUPERIMPOSING OF ULTRASONIC VIBRATION DURING COMPRESSIVE DEFORMATION OF METALS 67-03 M17-65838
EFFECTS OF SUPERIMPOSED ULTRASONIC VIBRATION ON COMPRESSIVE DEFORMATION OF METALS 67-03 M17-65839
TREATMENT OF BORON STEELS USING ULTRASONIC VIBRATIONS 67-04 M06-67781
EFFECT OF ULTRASOUND IN UPSETTING HARD-TO-FORM STEELS 67-04 M07-66086
IMPROVED EFFICIENCY IN WIREDRAWING WITH ULTRASOUND 67-04 M08-66923
ELECTRODEPOSITION OF METALS IN ULTRASONIC FIELDS 67-04 M12-66279
EFFECT OF STRAIN AND IMPURITIES ON THE ULTRASONIC ATTENUATION IN SUPERCONDUCTING TIN 67-04 M16-66180
ULTRASONIC ATTENUATION IN A PURE TYPE-2 SUPERCONDUCTOR NEAR NC2 67-04 M16-66660
ULTRASONIC AMPLIFICATION AND NONOHMIC BEHAVIOR IN TELLURIUM 67-04 M16-66777
MAGNETO-ACOUSTIC RESONANCES IN ANTIMONY 67-04 M16-66797
MAGNETO-ACOUSTIC EFFECTS IN N-INSB AT 9 GHZ 67-04 M16-66798
THE EXPLICIT YIELD POINT OF POLYCRYSTALLINE ZN AND THE EFFECT OF ULTRASONIC TREATMENT 67-04 M17-68008
THE EFFECT OF ULTRASONICS ON THE PHOSPHATING PROCESS 67-05 M12-68490
ANISOTROPY OF THE ULTRASONIC ATTENUATION IN METALS 67-05 M16-69757
ULTRASONIC ATTENUATION IN GALLIUM 67-05 M16-69811
HEATING OF PIPES DURING DRAWING IN AN ULTRASONIC FIELD 67-06 M07-70912
DISTRIBUTION OF DEFORMATION ALONG THE HEIGHT OF THE TESTPIECE WHEN UPSETTING IT UNDER ULTRASONIC VIBRATIONS 67-06 M08-70116
INVESTIGATIONS OF METAL DEFORMATION DURING VIBRATION 67-06 M08-71363
INFLUENCE OF ULTRASOUND ON STRESS RELIEF OF CR-W-MN STEEL DURING TEMPERING 67-06 M10-70056
INFLUENCE OF ULTRASONIC VIBRATIONS ON COOLING EFFICIENCY OF QUENCHING MEDIUM 67-06 M10-70057
INFLUENCE OF ULTRASONIC VIBRATIONS ON MICROSTRUCTURE OF ARMCO IRON 67-06 M13-70059
INFLUENCE OF ULTRASOUND ON THE STRUCTURE OF ALLOYS 67-06 M14-70055
INVESTIGATION OF SOME PROPERTIES OF ALLOYS PRODUCED IN ULTRASONIC FIELD 67-06 M14-70061
EFFECT OF ULTRASONIC VIBRATION ON THE PROCESS OF CRYSTALLIZATION 67-06 M14-70062
THE SOLIDIFICATION OF BI2TE3 AND ITS SOLID SOLUTIONS WITH BI2SE3 AND SB2TE3 UNDER THE INFLUENCE OF ULTRASONIC AGITATION 67-06 M14-70664
THE EFFECT OF ULTRASOUND ON THE CRYSTALLIZATION OF METALS AND ALLOYS DURING SOLIDIFICATION AND STRUCTURAL VARIATIONS TAKING PLACE IN THE SOLID STATE 67-06 M14-71112
ON THE INFLUENCE OF ULTRASONIC TREATMENTS ON THE RECRYSTALLIZATION OF ZINC 67-06 M14-71863
ULTRASONIC MEASUREMENT IN SINGLE-CRYSTAL NB3SN 67-06 M16-69917
AMPLITUDE DEPENDENCE OF ULTRASONIC ATTENUATION IN SINGLE-CRYSTAL COPPER 67-06 M16-71099
GIANT QUANTUM OSCILLATIONS OF THE ABSORPTION COEFFICIENT OF ULTRASOUND IN ANTIMONY 67-06 M16-71766
INVESTIGATION OF RESIDUAL STRESSES IN ARMCO IRON INDUCED BY DEFORMATION IN ULTRASONIC FIELD 67-06 M17-70058
STRENGTH OF BISMUTH-COATED NICKEL IN ULTRASONIC FIELD 67-06 M17-70060
STRESS ANALYSIS BY ULTRASONIC METHODS 67-06 M17-71175
ULTRASONIC INVESTIGATION OF CU SINGLE CRYSTALS 67-06 M17-71176
EFFECTS OF STRESS ON THE ULTRASONIC ATTENUATION IN A NICKEL SINGLE CRYSTAL 67-06 M17-71289
APPLICATION OF ULTRASONIC VIBRATIONS TO THE REMOVAL OF SULFUR FROM LIQUID PIG IRON 67-07 M04-72725
LOW-TEMPERATURE TENSION TESTS OF COPPER IN AN ULTRASONIC FIELD 67-07 M17-72786
USING ULTRASOUND TO TEST METALS UNDER TENSION 67-07 M17-73102
INFLUENCE OF ULTRASONICS ON SOME METALLURGICAL PROCESSES 67-08 M01-76149
PREPARATION OF DENSE PARTS FROM REFRACTORY METALLIDES WITH ULTRASONIC ACTIVATION 67-08 M09-75964
INFLUENCE OF ULTRASOUND ON THE NITRIDING AND DENITRIDING OF STEEL 67-08 M10-75815
DISLOCATION MULTIPLICATION IN ZINC SINGLE CRYSTALS UNDER THE EFFECT OF ULTRASONICS 67-08 M13-75278
METHODS OF TREATING METAL AND STEEL MELTS BY VIBRATION WITH EMPHASIS ON GRAIN REFINEMENT BY TREATING WITH ULTRASONIC WAVES DURING SOLIDIFICATION 67-09 M06-77845
ULTRASONICS TAKES ON ANOTHER METALFORMING JOB 67-09 M07-76745
HEREDITARY EFFECT OF ULTRASONIC TREATMENT ON THE GROWTH OF AUSTENITIC GRAINS 67-09 M14-77368
PROPAGATION OF SOULD IN LIQUID METALS 67-09 M15-77757
MAGNESIUM ALLOYS WHICH ABSORB LITTLE ULTRASOUND 67-09 M16-76712
INFLUENCE OF ULTRASONICS ON THE UPSETTING OF STEELS THAT ARE DIFFICULT TO WORK 67-10 M07-79671
INFLUENCE OF ULTRASONIC VIBRATIONS ON THE RELIEF OR RESIDUAL STRESSES DURING TEMPERING OF KHVG STEEL 67-10 M10-78802
EFFECT OF ULTRASONIC VIBRATIONS ON THE COOLING CAPACITY OF THE QUENCHING MEDIUM 67-10 M10-78803
EFFECT OF ULTRASONIC VIBRATIONS ON THE MICROSTRUCTURE OF ARMCO IRON 67-10 M13-78805
EFFECT OF ULTRASONIC VIBRATIONS ON THE STRUCTURES OF ALLOYS 67-10 M14-78801
SOME PROPERTIES OF ALLOYS RESULTING FROM ULTRASONIC VIBRATIONS 67-10 M14-78807
INFLUENCE OF ULTRASONIC VIBRATIONS ON THE PROCESS OF CRYSTALLIZATION 67-10 M14-78808
EFFECT OF DEFORMATION ON ULTRASONIC DAMPING IN MOLYBDENUM AND NIOBIUM SINGLE CRYSTALS 67-10 M15-79909
CHANGES IN THE WEAR RESISTANCE OF GRADE R18 STEEL

THROUGH INTRODUCING ULTRASONIC VIBRATIONS
67-10 M17-78380
SECOND-ORDER RESIDUAL STRESSES IN ARMCO IRON DEFORMED IN AN ULTRASONIC FIELD
67-10 M17-78804
STRENGTH OF NICKEL PLATED WITH BISMUTH IN AN ULTRASONIC FIELD 67-10 M17-78806
RESEARCH INTO THE ELONGATION OF COPPER AT HIGH TEMPERATURES IN AN ULTRASONIC FIELD
67-10 M17-78948
EFFECTS OF ULTRASONIC VIBRATIONS ON TECHNICAL PURITY IRON 67-10 M17-78981
INFLUENCE OF ALLOYING ON DAMPING OF ULTRASOUND IN MAGNESIUM ALLOYS 67-10 M17-79144
EFFICIENCY OF DRAWING IN AN ULTRASONIC FIELD
67-11 M08-80757
ULTRASONIC MEASUREMENTS OF DEFORMED AND ANNEALED MILL PRODUCTS 67-11 M13-80347
EXPERIMENTAL INVESTIGATION OF THE FREQUENCY DEPENDENCE OF ELECTRON ABSORPTION OF ULTRASOUND IN TIN SINGLE CRYSTALS OF VARIOUS CRYSTALLOGRAPHIC ORIENTATIONS
67-11 M15-80784
METALLIC, SOFT-MAGNETIC MATERIALS FOR ULTRASONIC TRANSDUCERS 67-11 M15-80867
CONTINUOUS AMPLIFICATION OF ULTRASOUND IN CADMIUM SELENIDE 67-11 M15-81054
FREQUENCY EFFECT IN THE ULTRASONIC ATTENUATION IN NIOBIUM IN THE MIXED STATE 67-11 M16-80191
INVESTIGATION OF THE COEFFICIENT OF ABSORPTION OF SOUND IN BISMUTH. PT. 2. GIANT OSCILLATIONS
67-11 M16-80782
ULTRASONIC WORK HARDENING OF FACE CENTERED CUBIC METALS AND ALLOYS 67-11 M17-80379
VISCOUS ULTRASONIC ATTENUATION IN METALS
67-11 M17-81092
ULTRASONICS INVESTIGATED AS A MEANS TO REDUCE ROLLING FORCES 67-12 M07-83596
CHANGES IN SINTERING KINETICS UNDER THE INFLUENCE OF ULTRASONIC VIBRATIONS 67-12 M09-83566
ULTRASONIC HEATING OF METALS 67-12 M13-82150
INFLUENCE OF ELASTIC VIBRATION ON THE SOLIDIFICATION OF METALS AND ALLOYS
67-12 M14-82114
EFFECT OF ULTRASONIC VIBRATIONS OF THE SUBSTRATE ON THE GROWTH OF THIN METAL FILMS
67-12 M14-83015
STUDY OF THE EFFECT OF ULTRASONIC VIBRATIONS ON THE DIFFUSION OF PHOSPHORUS AND CARBON IN IRON
67-12 M14-83409
ULTRASONIC EXTINCTION IN MONO- AND POLYCRYSTALLINE FE IN THE PULSE-ECHO PROCESS 67-12 M17-82667

ULTRASONICS, ATTENUATION
AMPLITUDE-DEPENDENT ULTRASONIC ATTENUATION IN SUPERCONDUCTORS 67-02 M16-60528
ELECTRON VISCOSITY AND ULTRASONIC ATTENUATION IN NOBLE METALS 67-05 M16-69813
RECOVERY OF ULTRASONIC ATTENUATION IN COPPER SINGLE CRYSTALS FOLLOWING SMALL PLASTIC DEFORMATION
67-07 M14-72637

ULTRASONICS, METAL WORKING
ULTRASONICS MAKES BIG IMPACT ON TUBE DRAWING
67-12 M07-82471

ULTRASONICS, POWDER METALLURGY
ULTRASONIC ACTIVATION DURING PRODUCTION OF REFRACTORY METAL POWDER COMPACTS
67-02 M09-62188

ULTRASONICS, WEAR
WEAR MECHANISM OF THE SURFACE OF CU-ZN METAL GROUP IN THE PRESENCE OF MERCURY AND ULTRASONIC VIBRATIONS 67-07 M17-73162

UNDERCOATING
THE EFFECT OF THE UNDERLYING METAL ON THE INTERNAL STRESS AND FORMATION OF MICROCRACKS IN ELECTRODEPOSITED CHROMIUM 67-05 M12-68822

UNDERGROUND CORROSION
CORROSION CONTROL STUDIES FOR A RAPID TRANSIT SYSTEM 67-02 M18-60251
GUIDELINES DEVISED FOR CORROSION PROTECTION OF FERROUS PIPELINES UNDERGROUND
67-04 M18-66601
CORROSION AND PROTECTION METHODS FOR ALUMINUM SHEATH OF COMMUNICATION CABLES
67-05 M18-69830
EPOXY ON UNDERGROUND PIPE SUBVERTS CORROSION
67-08 M12-74363
CATHODIC PROTECTION--METHOD OF CORROSION CONTROL. PT. 1
67-10 M18-78768
CORROSION AND METHODS OF PROTECTING THE ALUMINUM CASING BY COMMUNICATION CABLES
67-12 M18-82264

UNDERWATER CUTTING
NEW UNDERWATER CUTTING ELECTRODE
67-07 M08-74248
UNDERWATER WELDING AND CUTTING REPAIRS OF MARINE OIL INSTALLATIONS 67-09 M11-76886

UNDERWATER WELDING
CHARACTERISTICS OF UNDERWATER WELDING USING THIN WELDING WIRE 67-06 M11-71652
UNDERWATER WELDING AND CUTTING REPAIRS OF MARINE OIL INSTALLATIONS 67-09 M11-76886
FEATURES OF THE UNDERWATER THIN WIRE WELDING PROCESS 67-10 M11-79620

UNIT CELL
THE STRUCTURE OF A METASTABLE, TRIGONAL TRANSITION PHASE IN QUENCHED ALUMINUM-29 AT . PER CENT ZINC
67-02 M14-61820
THE OBSERVATION OF INTERSTICE LATTICE STACKING FAULTS IN ALPHA-TI-O ALLOYS 67-06 M13-71964
THE CRYSTAL STRUCTURE OF SO-CALLED ALPHA LAAL4 --LA3AL11-- 67-07 M13-73436
D88 PHASES OF THE RARE EARTH ELEMENTS WITH TIN AND LEAD 67-07 M13-73437
THE CRYSTAL STRUCTURE OF GD13ZN58
67-07 M13-73438
REFINEMENT OF A TH2NI17-TYPE STRUCTURE, CEMG1.03
67-11 M13-80491

UNIT OPERATIONS
SEE CHEMICAL ENGINEERING

UNIVERSAL JOINTS, MACHINING
ECM TAILORED FOR PRECISION 67-03 M08-65039

UNSHIELDED ARC WELDING
SEE ALSO CARBON ARC WELDING
A NEW METHOD OF MECHANIZED WELDING OF REINFORCED FITTINGS 67-04 M11-66575
ARC WELDING SEAMS WITH FORCED SHAPING
67-04 M11-66577
SEMIAUTOMATIC WELDING OF LOCOMOTIVE FORGINGS USING A SELF-SHIELDING WIRE 67-04 M11-67813
THE FEASIBILITY OF OMITTING A HIGH TEMPER IN THE PRODUCTION OF UNIT MACHINE BEDPLATES
67-05 M11-69404
SEMI-AUTOMATIC WELDING OF STRUCTURES FOR DIESEL LOCOMOTIVES WITH SELF SHIELDING ELECTRODES
67-06 M11-70313
WELDING OF STAMPED HOOD PLATES OF THIN SHEET KH18N10T STEEL FOR RECTIFICATION COLUMNS
67-06 M11-71656
ARC WELDING OF STEELS WITHOUT A PROTECTIVE ATMOSPHERE 67-06 M11-71818
INFLUENCE OF ALLOYING ELEMENTS ON RESIDUAL CONTENT OF NITROGEN IN OPEN ARC WELDED METAL
67-06 M11-72303
A NEW MECHANISED METHOD OF WELDING REINFORCEMENT
67-07 M11-73432
VERTICAL ARC WELDS MADE WITH CONSTRAINING MOULDS
67-07 M11-73434
DISPENSING WITH THE HIGH TEMPERATURE TEMPERING OF HOUSING BEDS FOR STANDARD CUTTING MACHINES
67-10 M11-78508
WELDING PRESSED BUBBLE PLATES FOR FRACTIONATING EQUIPMENT MADE OF KH18N10T STEEL SHEET
67-10 M11-79648
EFFECTS OF ALLOYING ELEMENTS ON THE RESIDUAL NITROGEN CONTENT OF THE WELD METAL AFTER OPEN ARC WELDING 67-11 M11-81575

UNWINDING
SEE WINDING

UP HARDFACING METHOD
SEE HARD SURFACING

UPGRADING
UPGRADING LORRAINE MINERALS. ENRICHMENT BY PHYSICAL MEANS 67-04 M02-67398

UPSET FORGING
SEE FORGING
UPSETTING

UPSET WELDING
FLASH WELDING OF REINFORCEMENT RODS MADE OF GRADE 80S STEEL 67-04 M11-67168
THE FLASH WELDING AND HEAT TREATMENT OF BAND SAWS
67-04 M11-67676
RESISTANCE WELDING TODAY 67-06 M11-72244
CONTACT BUTT WELDING PIECES IN HIGH-STRENGTH ALUMINUM ALLOYS 67-11 M11-80639

UPSETTING
SEE ALSO COLD UPSETTING
HOT UPSETTING
A NEW DEVICE FOR PIERCING LARGE UPSET FORGINGS ON

UPSETTING

STEAM-HYDRAULIC PRESSES 67-01 M07-57249
FORGING AHEAD WITH METAL FLOW 67-02 M07-60932
PRECISION UPSETTING OF FLANGED RODS USING LOCAL INDUCTION HEATING 67-02 M08-59826
CHARACTERISTICS OF THE PROCESS OF UPSETTING UNDER PULSATING LOADS 67-04 M07-67043
DETERMINING THE HIGHEST DEGREE OF DEFORMATION DURING REDUCTION OF HOLLOW CYLINDRICAL BILLETS IN A TAPERED DIE 67-04 M08-67040
EVALUATING THE EFFECTIVENESS OF LUBRICATION IN UPSETTING ON MECHANICAL PRESSES 67-04 M08-67041
UPSETTING, AN ECONOMICAL PRODUCTION METHOD 67-04 M08-68118
FUNDAMENTAL STUDY OF METAL FLOW IN STEEL FORGING. PT. 1 67-06 M07-71316
DISTRIBUTION OF DEFORMATION ALONG THE HEIGHT OF THE TESTPIECE WHEN UPSETTING IT UNDER ULTRASONIC VIBRATIONS 67-06 M08-70116
DISTRIBUTION OF NORMAL STRESSES ON THE CONTACT SURFACE WHEN UPSETTING THIN PIECES 67-06 M08-70280
INVESTIGATIONS OF METAL DEFORMATION DURING VIBRATION 67-06 M08-71363
HOT WORK DIE STEELS FOR CLOSED IMPRESSION FORGING 67-07 M07-73959
DETERMINING THE FORMABILITY OF R18 STEEL AT HIGH LOADING RATES 67-07 M08-73951
MACHINE TOOLS FOR UPSETTING AND HEADING 67-08 M08-75762
INFLUENCE OF FORGING TECHNOLOGY ON QUALITY OF REDUCTOR GEARS 67-09 M07-76408
STUDY OF METAL FLOW IMPROVES KNOWLEDGE OF FORGING 67-09 M07-76478
EXPERIMENTAL STUDY OF THE DISTRIBUTION OF PLASTIC STRAIN DURING VIBRATION UPSETTING WITH PLANE-PARALLEL PLATES 67-09 M07-77362
GRAPHICAL DETERMINATION OF PRESS FORCE AND DEFORMATION WORK IN UPSETTING AND COLD EXTRUSION 67-09 M08-77945
TENSION DURING PLASTIC STRAINING WITH CROSSWISE DEFORMATION 67-10 M07-78430
STUDIES ON THE HOLLOW CYLINDER UPSETTING TEST AND ITS SUITABILITY TO DETERMINING THE RESISTANCE TO DEFORMATION OF THIN SHEETS 67-10 M07-79061
EVALUATION OF THE EFFECTIVENESS OF LUBRICANTS IN UPSETTING ON MECHANICAL PRESSES 67-10 M07-79724
THE INVESTIGATION OF THE IMPORTANCE OF FRICTION IN MASSIVE DEFORMATION IN RING UPSETTING TESTS 67-10 M17-79180
DEFORMATION RESISTANCE AND DEFORMATION EFFICIENCY IN UPSETTING 67-11 M07-80844
EFFECT OF CONTACT CONDITIONS ON METAL FLOW IN UPSETTING CYLINDRICAL BILLETS 67-12 M07-83333
TENSION AND DEFORMATION WORK WITH DEVELOPING TRANSVERSE DEFORMATION 67-12 M07-83428

UPSETTING, FRICTION
CONTACT AND INTERLAYER STRESSES IN BIMETALS DURING UPSETTING 67-02 M07-60673

UPSETTING, STRESSES
CONTACT STRESSES DURING HOT UPSETTING OF HEAT-PROOF STEELS AND ALLOYS 67-01 M17-57183

UPSETTING, ULTRASONICS
EFFECT OF ULTRASOUND IN UPSETTING HARD-TO-FORM STEELS 67-04 M07-66086
INFLUENCE OF ULTRASONICS ON THE UPSETTING OF STEELS THAT ARE DIFFICULT TO WORK 67-10 M07-79671

UPSETTING, VIBRATION
INFLUENCE OF THE VIBRATION METHOD OF DEFORMATION ON THE STRUCTURE OF METALS 67-08 M07-76028

URANIUM, ALLOYING ADDITIVE
STUDY OF AS-ROLLED CARBON STEELS OVER RANGES OF URANIUM, SULFUR AND CARBON CONTENTS 67-02 M01-60925
HOW URANIUM AFFECTS CORROSION OF RESULFURIZED STAINLESSES 67-03 M18-65983
EFFECT OF URANIUM ON THE TRANSVERSE DUCTILITY OF RESULPHURIZED CHROMIUM STAINLESS STEEL ROLLED PLATE 67-05 M17-68345
INFLUENCE OF A SMALL ADDITION OF URANIUM ON THE MECHANICAL AND MAGNETIC PROPERTIES OF A 50 PER CENT NI-FE-NI ALLOY 67-08 M17-76233
THE INFLUENCE OF URANIUM ON THE PROPERTIES OF GRAY IRON 67-09 M17-77811
MANUFACTURE OF PLATE FUEL ELEMENTS FOR RESEARCH REACTORS 67-12 M20-82810

URANIUM, BINARY SYSTEMS
THE URANIUM-DIOXIDE SYSTEM OF URANIUM ABOVE 1130 C 67-02 M13-62294
INTERDIFFUSION IN THE ZN-U SYSTEM 67-04 M15-66662
A STUDY OF THE IRON-RICH PORTION OF THE FE-U PHASE DIAGRAM 67-06 M13-69906
TRANSFORMATIONS AND STRUCTURES IN THE URANIUM-RHENIUM SYSTEM. PT. 3. FORMATION AND STRUCTURE OF DELTA --U2RE-- 67-07 M14-74231
STUDY OF THE URANIUM-HYDROGEN SYSTEM AT ELEVATED PRESSURES 67-12 M13-82597

URANIUM, BINARY SYSTEMS,
THERMODYNAMIC PROPERTIES OF URANIUM CARBIDES 67-06 M15-70888

URANIUM, BONDING
PRESSURE BONDING 67-11 M11-80479

URANIUM, CASTING
CASTING OF ZIRCALOY-URANIUM CORES FOR HWCTR DRIVER TUBES 67-07 M06-73152
SOME PROBLEMS IN THE MELTING AND CASTING OF URANIUM AND ITS ALLOYS 67-10 M06-79564

URANIUM, CHEMICAL ANALYSIS
A METHOD FOR TRACE ANALYSIS WITH AN ELECTRON MICROPROBE 67-06 M19-71431

URANIUM, CLADDING
FABRICATION OF NUCLEAR FUELS IN INDIA 67-06 M16-71034

URANIUM, COATING
NICKEL PLATING URANIUM--REVIEW OF LABORATORY STUDIES 67-09 M12-78057

URANIUM, CORROSION
THE OXIDATION OF PURE U IN CO2 BETWEEN 700 AND 1000 C 67-05 M18-68637
ALUMINUM COATING OF URANIUM REACTOR PARTS FOR CORROSION PROTECTION 67-07 M18-74241

URANIUM, CRYSTAL DEFECTS
FISSION DAMAGE IN METALS 67-04 M13-67320

URANIUM, CRYSTAL LATTICES
RADIATION EFFECTS IN URANIUM 67-04 M14-67322
STACKING FAULTS OF ALPHA-URANIUM 67-05 M13-69457
SUBSTRUCTURE MEASUREMENTS BY STATISTICAL FLUCTURATIONS IN X-RAY DIFFRACTION INTENSITY 67-06 M14-71424
LIGHT ELEMENT MICROANALYSIS 67-09 M13-76661

URANIUM, CRYSTAL STRUCTURE
STUDY OF THE TEXTURES DEVELOPED IN ELECTROLYTIC URANIUM BY ROLLING AT ROOM TEMPERATURE AND THEIR EVOLUTION DURING ALPHA-PHASE ANNEALS 67-11 M13-80248

URANIUM, DIFFUSION
LATTICE AND GRAIN-BOUNDARY DIFFUSION OF URANIUM IN UO2 67-02 M14-59051
THE INTERACTION OF IRON WITH MOLTEN URANIUM 67-03 M14-65855
DIFFUSION OF THORIUM, PROTACTINIUM AND URANIUM IN FACE-CENTERED CUBIC THORIUM 67-07 M14-74235
LATTICE AND GRAIN-BOUNDARY DIFFUSION OF URANIUM IN UO2 67-08 M14-74419
SELF-DIFFUSION IN ALPHA URANIUM 67-10 M14-79635
PHASE DIAGRAM OF THE UC-W SYSTEM AND DIFFUSION OF URANIUM FROM URANIUM CARBIDE INTO TUNGSTEN 67-10 M14-79636
ABSORPTION METHOD OF DETERMINING THE DIFFUSION COEFFICIENT OF ALPHA-RADIOACTIVE ELEMENTS 67-10 M14-79639
SELF-DIFFUSION COEFFICIENT OF URANIUM IN URANIUM MONOCARBIDE 67-12 M14-83157
SELF-DIFFUSION OF URANIUM IN URANIUM DIOXIDE--ROLE OF THE DEVIATION FROM STOICHIOMETRY AND OF GRAIN JOINTS 67-12 M14-83198

URANIUM, ELECTRICAL PROPERTIES
ELECTRICAL RESISTIVITY OF ALPHA URANIUM CRYSTALS IN THE TEMPERATURE RANGE 67 TO 293 K 67-04 M15-67463
ELECTRICAL RESISTANCE OF IRRADIATED ALPHA URANIUM CRYSTALS 67-04 M15-67464

URANIUM, EXTRACTION
METHODS OF PREPARING URANIUM BY MAGNESIOTHERMY 67-02 M03-60944
STUDY OF SORPTION AND SEPARATION OF URANIUM --4-- FROM NITRIC ACID SOLUTIONS 67-02 M03-61726
TUNGSTEN CRUCIBLES IN PYROCHEMICAL PROCESSING OF NUCLEAR FUELS 67-06 M01-70714
ION EXTRACTION BY FOAM. SEPARATION OF URANIUM FROM VANADIUM IN CARBONATE MEDIUM 67-06 M03-71017

ION EXTRACTION BY FOAM. SEPARATION OF URANIUM FROM THORIUM IN HYDROCHLORIDE MEDIUM
67-06 M03-71018
PRODUCTION OF URANIUM METAL FROM URANIUM OXIDE BY FUSED SALT ELECTROLYSIS 67-06 M03-71698
STUDIES ON THE SOLVENT EXTRACTION OF ACTINIDE ELEMENTS BY ORGANOPHOSPHORUS COMPOUNDS
67-08 M03-75302
INVESTIGATIONS OF THE POSSIBLE REDUCTION IN THE CONSUMPTION OF REAGENTS IN THE PROCESS OF LEACHING URANIUM FROM ORE 67-10 M03-79866
METHOD FOR THE ION-EXCHANGE SEPARATION OF URANIUM FROM IRON, THORIUM AND RARE-EARTH METALS
67-12 M03-81786
THE EXTRACTION OF SPECIAL METALS
67-12 M03-83284
APPLICATION OF LIQUID-LIQUID EXTRACTION TO THE TREATMENT OF IRRADIATED COMBUSTIBLES. PT. 2
67-12 M16-81801
SIMULTANEOUS SEPARATION OF THE ELEMENTS RA, PU, U, AM AND CM FROM IRRADIATED THORIUM
67-12 M16-82238
APPLICATION OF LIQUID-LIQUID EXTRACTION TO THE TREATMENT OF IRRADIATED FUELS. PT. 1. PHYSICO-CHEMICAL ASPECTS 67-12 M16-82280

URANIUM, EXTRUSION
TRUCTURES OF URANIUM EXTRUDED HIGH IN THE ALPHA PHASE 67-09 M07-77465
THE TECHNOLOGY OF COEXTRUSION IN PRODUCING URANIUM-ZIRCALOY TUBULAR FUEL ELEMENTS
67-12 M07-82806

URANIUM, IRRADIATION
VAPORIZATION OF FISSION PRODUCTS FROM IRRADIATED FUELS. PT. 1. EXPERIMENTAL METHOD AND GENERAL FISSION-PRODUCT BEHAVIOR 67-12 M16-82698
INCOHERENT SCATTERING OF GAMMA RAYS IN URANIUM
67-12 M16-83263

URANIUM, MACHINING
URANIUM MACHINING 67-12 M08-82952

URANIUM, MECHANICAL PROPERTIES
MULTIPROCESS CREEP IN URANIUM DEDUCED FROM LITERATURE DATA 67-01 M17-58471
A STRAIN-ANNEAL METHOD OF GROWING CRYSTALS OF ALPHA-URANIUM 67-02 M14-61296
SOME PROPERTIES OF HEAT TREATED U-1 PER CENT MO ALLOYS 67-04 M17-67144
THE TENSILE PROPERTIES AND FRACTURE OF URANIUM BETWEEN MINUS 200 C. AND PLUS 900 C
67-08 M17-74514
HYDROGEN EMBRITTLEMENT IN URANIUM
67-10 M17-79590
VARIATION OF HARDNESS DURING THE ISOCHRONAL AND ISOTHERMAL ANNEALING OF WORKED URANIUM WITH VARIOUS DEGREES OF PURITY 67-10 M17-79637

URANIUM, MELTING
EVOLUTION OF ELECTRIC FURNACES FOR VACUUM MELTING OF URANIUM 67-04 M03-67218

URANIUM, MICROSTRUCTURE
EVIDENCE FOR A HELICAL CRYSTALLOGRAPHIC TEXTURE IN URANIUM BARS OF MAGNOX CLAD FUEL ELEMENTS
67-03 M16-65854
A NEW IONOGRAPHIC INSTRUMENT--THE SCIP ION
67-12 M13-83516

URANIUM, NONDESTRUCTIVE TESTING
DETERMINATION OF URANIUM SURFACE-CONCENTRATION OF COATED PARTICLES 67-01 M16-58232
NONDESTRUCTIVE MATERIAL TESTING IN THE PRODUCTION OF FUEL ELEMENTS 67-02 M16-60022

URANIUM, NUCLEAR FUELS
THE INFLUENCE OF NEUTRON RADIATION UPON PLUTONIUM CONTAINING SOLIDS 67-09 M16-76352
URANIUM AND THORIUM OXIDES--PROPERTIES AND BEHAVIOR 67-09 M16-77314

URANIUM, NUCLEAR METALLURGY
THE MACHINING OF NUCLEAR MATERIALS
67-04 M08-67297

URANIUM, NUCLEAR PROPERTIES
COMPARATIVE MEASUREMENTS OF URANIUM ATOM EMISSION FROM FISSIONING SURFACES 67-11 M16-80495

URANIUM, PELLETS
EXAMINATION OF FUEL AND CLADDING IN PWR-1 BLANKET RODS 67-03 M18-65019

URANIUM, PHASE TRANSFORMATIONS
AN X-RAY PHOTOGRAPHIC STUDY OF THE ALPHA-BETA TRANSFORMATION OF PURE URANIUM
67-04 M14-67456
HYSTERESIS IN THE ALPHA-BETA TRANSITION OF URANIUM SATURATED WITH SILICON
67-09 M14-78266

URANIUM, PHASES /STATE OF MATTER/
PRESSURE-TEMPERATURE PHASE DIAGRAM OF URANIUM METAL
67-09 M14-78219
URANIUM METAL AND ALLOYS. UNALLOYED URANIUM
67-09 M16-77308

URANIUM, PHYSICAL PROPERTIES
IRRADIATION BEHAVIOR OF URANIUM FUEL TUBES IN A PRESSURIZED HEAVY-WATER REACTOR
67-06 M16-71055
THE VISCOSITIES OF LIQUID URANIUM, GOLD AND LEAD
67-09 M15-77467
THE DISTRIBUTION OF AND SWELLING PRODUCED BY FISSION GAS BUBBLES IN ALPHA AND BETA URANIUM IRRADIATED UNDER LOW STRESS 67-09 M16-78257

URANIUM, POWDER METALLURGY
DIRECT CURRENT PLASMA--A NEW SPHEROIDIZING PROCESS
67-02 M09-59468
THE SINTERING OF URANIUM WITH HIGHLY OXIDE-FREE SURFACES 67-02 M09-60826
DISPERSION HARDENED WROUGHT URANIUM
67-02 M09-60946

URANIUM, QUATERNARY SYSTEMS
ON THE STRUCTURE OF URANIUM-MANGANESE-ALUMINUM-IRON ALLOYS WITH CONSTANT URANIUM CONTENT OF 50 AT. PER CENT 67-02 M13-60119
THE QUATERNARY SYSTEM, U-UMN2-UAL2-UFE2
67-02 M13-60877

URANIUM, RADIATION EFFECTS
BASIC STUDIES OF IRRADIATION EFFECTS IN FUEL MATERIALS 67-09 M16-77319
DISTRIBUTION OF TEXTURE OVER THE SECTIONS OF ALPHA- AND GAMMA-DEFORMED AND QUENCHED BARS OF URANIUM STUDIED RADIOGRAPHICALLY 67-10 M13-78355

URANIUM, REACTIONS /CHEMICAL/
A STUDY OF U PLUS CUC REACTION IN THE SOLID STATE, IN MIXED U AND C POWDERS. PT. 3. A STUDY BY DIFFERENTIAL-THERMAL ANALYSIS
67-02 M09-60746
DIFFUSION IN THE PLUTONIUM-URANIUM SYSTEM
67-02 M14-60747
THERMOCHEMISTRY OF METAL-REFRACTORY INTERACTIONS
67-04 M15-66129
A MICROSCOPE STUDY OF THE INITIATION OF THE HYDROGEN-URANIUM REACTION 67-05 M14-68634
DISSOLUTION KINETICS OF NUCLEAR FUELS. PT. 1. URANIUM 67-06 M14-70480
FUEL-WATER REACTIONS 67-09 M14-77317
SURFACE IONIZATION. PT. 1. DESORPTION OF U PLUS IONS FROM W AND RE SURFACES 67-10 M14-78876
VARIATION OF THE RATE OF HYDROGENATION OF URANIUM WITH TEMPERATURE 67-10 M14-79926
FUEL-WATER REACTIONS 67-11 M18-80464
THE OXIDATION MECHANISM OF PURE URANIUM IN CARBON MONOXIDE BETWEEN 700 AND 1000 C
67-12 M14-81828

URANIUM, REFINING
STUDY OF THE DRY CHEMICAL TREATMENT OF URANIUM-ZIRCONIUM FUELS 67-02 M03-59420
OBTAINING PURE METALS BY CHEMICAL METHODS
67-04 M03-67843
PRODUCTION OF HIGH PURITY URANIUM BY FUSED SALT ELECTROLYSIS 67-06 M03-70019
THE PURIFICATION PLANT FOR CONCENTRATES AT THE CENTRO NACIONAL DE ENERGIA NUCLEAR JUAN VIGON
67-07 M03-74098

URANIUM, STANDARDS
STANDARDS FOR NUCLEAR FUEL MATERIALS
67-09 M19-77022

URANIUM, SUPERCONDUCTIVITY
SUPERCONDUCTIVITY OF THORIUM AND URANIUM
67-02 M15-61571
SUPERCONDUCTIVITY OF ALPHA URANIUM
67-02 M16-61139
SUPERCONDUCTIVITY OF ALPHA-URANIUM AND URANIUM COMPOUNDS AT HIGH PRESSURE 67-05 M16-69513

URANIUM, TERNARY SYSTEMS
THE ISOTHERMIC SHIFT AT ORDINARY TEMPERATURE OF THE URANIUM-CARBON-SILICON DIAGRAM
67-02 M13-61023
THE URANIUM-CARBON-NITROGEN SYSTEM
67-02 M15-60617
URANIUM CARBIDE. REFRACTORY METAL INTERACTIONS AT HIGH TEMPERATURE 67-03 M14-65987
THE URANIUM-IRON-SILICON SYSTEM. THE NEW PHASE U2FESI3 67-04 M13-67108
HIGH TEMPERATURE PHASE-EQUILIBRIA IN THE TH-U-C SYSTEM IN THE PRESENCE OF FREE CARBON
67-04 M14-66240
THE URANIUM-CARBON-OXYGEN TERNARY DIAGRAM

67-04 M14-66916
ALLOY COMPOSITIONS OF HFB2 WITH URANIUM AND TRANSITION METAL BORIDES 67-04 M14-67453
STUDY OF THE EQUILIBRIUM OF FOUR SOLID PHASES IN THE TERNARY SYSTEM U-C-SI 67-04 M14-67454
RESEARCH ON THE URANIUM-OXYGEN-CARBON SYSTEM 67-05 M14-68765
ON THE TERNARY PHASES UCOAL, UIRAL, AND UNIAL OF THE C22 --FE2P-- TYPE 67-06 M13-71623
NUMERICAL DETERMINATION OF PHASE COMPOSITION IN MULTI-ELEMENT SYSTEMS, FOR EXAMPLE U-C-CR SYSTEM 67-07 M13-74236
PHASE RELATIONS IN THE URANIUM MONOCARBIDE REGION OF THE SYSTEM URANIUM-CARBON-OXYGEN AT 1700C 67-08 M13-76079
A STUDY OF PLUTONIUM OXIDES AND THEIR SOLUBILITY IN URANIUM DIOXIDE 67-09 M14-76346
THERMODYNAMIC AND PHASE STUDIES FOR PLUTONIUM AND URANIUM-PLUTONIUM OXIDES WITH APPLICATION TO COMPATIBILITY CALCULATIONS 67-09 M14-76349
EQUIATOMIC TERNARY COMPOUNDS OF URANIUM AND ALUMINIUM WITH GROUP 8 TRANSITION ELEMENTS 67-09 M14-77466
THE URANIUM-PLUTONIUM-OXYGEN TERNARY PHASE DIAGRAM 67-12 M13-82998

URANIUM, THERMAL PROPERTIES
THE WIEDEMANN-FRANZ RATIO OF METALLIC URANIUM AT ELEVATED TEMPERATURES 67-03 M15-65869

URANIUM, THERMODYNAMICS
HEAT CAPACITY OF ALPHA URANIUM FROM 1.7 TO 25 K 67-02 M15-60770
DETERMINATION OF THE ACTIVITY COEFFICIENT AT 1600 C. OF URANIUM IN AN INFINITELY DILUTE SOLUTION IN LIQUID IRON BY STUDYING A HETEROGENEOUS EQUILIBRIUM 67-09 M15-77680

URANIUM, THIN FILMS
SOME WORK FUNCTIONS OF VAPOR DEPOSITED URANIUM ON POLYCRYSTALLINE TUNGSTEN FOIL 67-10 M15-79570
HOT ROLLING OF U AND U-AL ALLOYS 67-12 M07-82812

URANIUM, WELDING
COMPARISON OF THE BEHAVIOR OF SEVERAL METALS UNDER THE IMPACT OF THE ELECTRON BEAM OF A WELDING MACHINE 67-11 M11-80245

URANIUM BASE ALLOYS, CLADDING
COMPATIBILITY OF U-PU-FZ FUEL ALLOYS WITH POTENTIAL CLADDING MATERIALS 67-01 M14-58585

URANIUM BASE ALLOYS, CORROSION
MECHANISM OF CORROSION OF FUEL ALLOYS 67-09 M18-77318

URANIUM BASE ALLOYS, FUEL ELEMENTS
PRODUCTION OF TUBES OF METALLIC URANIUM 67-01 M06-57166

URANIUM BASE ALLOYS, HEAT TREATMENT
EFFECTS OF THERMAL CYCLING ON URANIUM CARBON ALLOYS 67-05 M14-68563

URANIUM BASE ALLOYS, IRRADIATION
VAPORIZATION OF FISSION PRODUCTS FROM IRRADIATED FUELS. PT. 1. EXPERIMENTAL METHOD AND GENERAL FISSION-PRODUCT BEHAVIOR 67-12 M16-82698

URANIUM BASE ALLOYS, MECHANICAL PROPERTIES
SOME PROPERTIES OF HEAT TREATED U-1 PER CENT MO ALLOYS 67-04 M17-67144
DISPERSION OF METALLIC URANIUM IN URANIUM MONOCARBIDE AND ITS EFFECTS ON THE MECHANICAL PROPERTIES 67-05 M17-68667
THE HEAT-TREATABILITY AND PROPERTIES OF URANIUM ALLOYS 67-07 M01-73829
STUDY OF THE MECHANICAL AND THERMAL PROPERTIES OF URANIUM ALLOYS WITH SMALL ADDITIONS 67-12 M17-83503

URANIUM BASE ALLOYS, MICROSTRUCTURE
EFFECT OF SMALL ADDITIONS OF ALUMINUM ON THE MICROSTRUCTURE OF URANIUM-MOLYBDENUM ALLOYS 67-04 M13-67161
GRAIN REFINING AND MECHANICAL PROPERTIES OF URANIUM ALLOYS CONTAINING SMALL AMOUNTS OF VANADIUM 67-05 M14-68918

URANIUM BASE ALLOYS, NUCLEAR FUELS
IRRADIATION BEHAVIOR OF PLUTONIUM ALLOY FUELS FOR FAST REACTORS 67-09 M16-76353

URANIUM BASE ALLOYS, NUCLEAR PROPERTIES
METALLIC PLUTONIUM ALLOYS FOR FAST CRITICAL EXPERIMENTS 67-09 M16-76329

URANIUM BASE ALLOYS, PHASE TRANSFORMATIONS
CONTRIBUTION TO THE STUDY OF URANIUM ALLOYS CONTAINING SMALL AMOUNTS OF ADDITION ELEMENTS 67-01 M14-57169
DEVELOPMENT AND EVALUATION OF THE SYSTEM U-NB-SI AS A DISPERSED PHASE ALLOY 67-04 M14-66133
THE BAINITIC REACTION IN URANIUM-CHROMIUM ALLOYS 67-05 M14-69563
THE BETA TO ALPHA PHASE CHANGE IN A URANIUM-PLATINUM-NIOBIUM ALLOY 67-05 M14-69566
TRANSFORMATIONS AND STRUCTURES IN THE URANIUM-RHENIUM SYSTEM. PT. 1. METASTABLE ALPHA PRIME, ALPHA DOUBLE PRIME AND GAMMA STRUCTURES 67-07 M14-74229
TRANSFORMATIONS AND STRUCTURES IN THE URANIUM-RHENIUM SYSTEM. PT. 2. THE BETA TO ALPHA TRANSFORMATION 67-07 M14-74230
INFLUENCE OF A UNIAXIAL COMPRESSIVE STRESS ON THE KINETICS OF THE BETA-ALPHA TRANSFORMATION IN U-CR ALLOYS AND ON GRAIN FINENESS 67-11 M14-81561
INFLUENCE OF THE LIMIT OF SOLUBILITY OF CHROMIUM IN BETA URANIUM ON THE ISOTHERMAL TRANSFORMATIONS OF U-CF ALLOYS QUENCHED FROM 720 C 67-12 M14-83197
CONTRIBUTION TO THE STUDY OF U ALLOYS CONTAINING SMALL AMOUNTS OF VANADIUM 67-12 M14-83517

URANIUM BASE ALLOYS, PHASES /STATE OF MATTER/
THE STRUCTURE AND OCCURRENCE OF THE METASTABLE MONOCLINIC PHASE, ALPHA DOUBLE PRIME B IN URANIUM-MOLYBDENUM ALLOYS 67-03 M13-65850
DECOMPOSITION OF GAMMA PHASE IN URANIUM ALLOYS CONTAINING 8, 10.8, AND 14.3 WT PER CENT MOLYBDENUM 67-05 M14-68722
URANIUM METAL AND ALLOYS. UNALLOYED URANIUM 67-09 M16-77308
URANIUM METAL AND ALLOYS 67-11 M14-80460

URANIUM BASE ALLOYS, ROLLING
HOT ROLLING OF U AND U-AL ALLOYS 67-12 M07-82812

URANIUM BASE ALLOYS, SUPERCONDUCTIVITY
SUPERCONDUCTIVITY OF ALPHA-URANIUM AND URANIUM COMPOUNDS AT HIGH PRESSURE 67-05 M16-69513

URANIUM BASE ALLOYS, THERMAL PROPERTIES
PLUTONIUM 67-11 M15-80461

URANIUM BASE ALLOYS, THERMODYNAMICS
THERMODYNAMIC PROPERTIES OF THE GAMMA PHASE OF THE URANIUM-ZIRCONIUM SYSTEM 67-06 M15-70946

URANIUM CARBIDE, BINARY SYSTEMS
PHASE DIAGRAM OF THE UC-W SYSTEM AND DIFFUSION OF URANIUM FROM URANIUM CARBIDE INTO TUNGSTEN 67-10 M14-79636

URANIUM CARBIDE, CORROSION
INVESTIGATION OF URANIUM-PLUTONIUM-TITANIUM-CARBON COMPOUNDS 67-11 M20-80150

URANIUM CARBIDE, CRYSTAL LATTICES
SWEEPING OF BUBBLES BY GRAIN BOUNDARIES IN IRRADIATED UC 67-09 M14-77478

URANIUM CARBIDE, DIFFUSION
SELF-DIFFUSION COEFFICIENT OF URANIUM IN URANIUM MONOCARBIDE 67-12 M14-83157

URANIUM CARBIDE, IRRADIATION
THE IRRADIATION BEHAVIOUR OF PLUTONIUM-URANIUM MONOCARBIDE 67-09 M16-76354
IRRADIATION BEHAVIOUR OF SOLID SOLUTION URANIUM-PLUTONIUM MONOCARBIDES AT HIGH BURNUPS 67-09 M16-76355

URANIUM CARBIDE, MACHINING
AN AMERICAN COMPANY CUTS COSTS BY MACHINING URANIUM CARBIDE DRY 67-11 M08-80515

URANIUM CARBIDE, MAGNETIC PROPERTIES
THE MAGNETIC SUSCEPTIBILITY OF THE MONOCARBIDES OF URANIUM AND PLUTONIUM 67-09 M15-76318

URANIUM CARBIDE, MECHANICAL PROPERTIES
MECHANICAL PROPERTIES AND COMPATIBILITY OF URANIUM-PLUTONIUM CARBIDES 67-09 M17-76341

URANIUM CARBIDE, NUCLEAR FUELS
CARBIDE AND NITRIDE FUELS--PROPERTIES AND BEHAVIOR 67-09 M16-77316

URANIUM CARBIDE, NUCLEAR PROPERTIES
A MEASUREMENT OF THE TEMPERATURE COEFFICIENT OF THE EFFECTIVE RESONANCE INTEGRAL FOR URANIUM CARBIDE 67-09 M16-76456

URANIUM CARBIDE, PHASE TRANSFORMATIONS
NEUTRON-DIFFRACTION STUDY OF UC2 AT 300 TO 5 K 67-11 M13-81572

URANIUM CARBIDE, PHASES /STATE OF MATTER/
PHASE RELATIONS IN THE URANIUM MONOCARBIDE REGION OF THE SYSTEM URANIUM-CARBON-OXYGEN AT 1700C 67-08 M13-76079

URANIUM CARBIDE, PHYSICAL PROPERTIES
THE HEAT OF FORMATION OF URANIUM CARBIDE 67-10 M15-79591

URANIUM CARBIDE, REACTIONS /CHEMICAL/
THE OXIDATION OF URANIUM-BASED CERAMICS, THE BEHAVIOR OF UC AND OF UC2 CONTAMINATED WITH CARBON CONTAINING PHASES 67-07 M14-74232
THE IGNITION OF URANIUM MONONITRIDE AND URANIUM MONOCARBIDE IN OXYGEN 67-07 M15-74237
SOME EXPERIMENTS ON THE PREPARATION AND FABRICATION OF UC AND --UPU--C--THE PREPARATION OF CARBIDES BY CARBOTHERMIC REDUCTION OF OXIDES IN FLOWING ARGON--THE FABRICATION OF CARBIDES BY SKULL ARCMELTING 67-09 M03-76340
THE COMPATIBILITY OF MIXED OXIDES AND CARBIDES WITH REFRACTORY METALS 67-09 M14-76350
THE COMPATIBILITY OF TYPE 316L STAINLESS STEEL WITH MIXED URANIUM-PLUTONIUM CARBIDES 67-09 M14-76351
KINETIC STUDIES OF FLUORINATION OF URANIUM CARBIDES BY FLUORINE. PT. 2. FLUORINATION OF URANIUM DICARBIDE 67-09 M14-78052
URANIUM CARBIDE, SURFACE PROPERTIES
WETTING OF URANIUM CARBIDE 67-09 M15-77473
URANIUM CARBIDE, THERMODYNAMICS
THERMODYNAMIC PROPERTIES OF URANIUM CARBIDES 67-06 M15-70888
URANIUM COMPOUNDS
SEE ALSO URANIUM CARBIDE
URANIUM OXIDES
URANIUM COMPOUNDS, CHEMICAL ANALYSIS
RADIOMETRIC DETERMINATION OF THORIUM IN MIXED OXALATES OF URANIUM AND THORIUM 67-12 M19-82270
NEW CONTRIBUTIONS TO THE SPECTROGRAPHIC DETERMINATION OF IMPURITIES IN URANIUM MATERIALS BY THE FRACTIONAL CARRIER DISTILLATION METHOD 67-12 M19-83493
URANIUM COMPOUNDS, COATING
CONTACT DIFFUSION INTERACTION BETWEEN MATERIALS AND CLADDINGS 67-04 M12-67863
URANIUM COMPOUNDS, CRYSTAL GROWTH
SYNTHESIS OF A NEW DOUBLE OXIDE OF URANIUM AND NIOBIUM 67-02 M14-60556
TRANSPORT REACTIONS OF THE SILICIDES AND BORIDES OF TRANSITION METALS 67-03 M14-65184
URANIUM COMPOUNDS, CRYSTAL LATTICES
DELTA-U3O8 A HIGH TEMPERATURE MODIFICATION. PT. 2, SINGLE CRYSTAL STUDIES 67-02 M13-59053
THE STRUCTURE OF BETA UO3 67-02 M13-59098
CRYSTALLOGRAPHY OF BA3UFE2O9 AND SR3UFE2O9 COMPOUNDS 67-09 M13-76468
CHARACTERIZATION OF POINT DEFECTS IN NONSTOICHIOMETRIC COMPOUNDS FROM THERMODYNAMIC CONSIDERATIONS 67-10 M13-79116
STRUCTURE INVESTIGATIONS OF TWO URANIUM NITRIDES U2N3 PLUS X 67-11 M13-80624
URANIUM COMPOUNDS, DIFFUSION
LATTICE AND GRAIN-BOUNDARY DIFFUSION OF URANIUM IN UO2 67-02 M14-59051
URANIUM COMPOUNDS, ELECTRICAL PROPERTIES
ELECTRICAL RESISTANCE AND THERMOELECTRIC POWER OF URANIUM DURING OXIDATION AT .001 TORR FROM 500 TO 800 C 67-02 M15-59048
URANIUM COMPOUNDS, FUEL ELEMENTS
BASIC STUDIES OF IRRADIATION EFFECTS IN FUEL MATERIALS 67-11 M16-80465
URANIUM COMPOUNDS, MAGNETIC PROPERTIES
THE MAGNETIC STRUCTURE OF URANIUM MONOPHOSPHIDE 67-01 M15-57983
NEUTRON-DIFFRACTION STUDY OF ANTIFERROMAGNETISM IN USB2 AND BUI2 67-11 M15-81515
NEUTRON-DIFFRACTION STUDY OF ANTIFERROMAGNETISM IN USB2 AND UBI2 67-12 M15-82006
URANIUM COMPOUNDS, MECHANICAL PROPERTIES
LOW-TEMPERATURE ELASTIC PROPERTIES OF ZRC AND TIC 67-01 M17-57116
ELASTIC CONSTANTS OF THE INTERMEDIATE PHASE UCO2 67-11 M17-80129
URANIUM COMPOUNDS, MELTING
MELTING AND CASTING 67-11 M03-80476
URANIUM COMPOUNDS, METAL WORKING
EXPLOSIVE METALWORKING 67-11 M08-80481
URANIUM COMPOUNDS, METALLOGRAPHY
A TECHNIQUE FOR PREPARING SAMPLES OF SMALL FRAGILE PARTICLES FOR ELECTRON MICROSCOPE EXAMINATION BY MEANS OF REPLICAS 67-01 M13-58543
METHODS FOR METALLOGRAPHIC PREPARATION OF UO2 AND UO2CEO2 67-06 M13-71408
URANIUM COMPOUNDS, MICROSTRUCTURE
MULTIPLE ELECTRON DIFFRACTION. APPLICATION TO EVAPORATING UO2 PLUS X 67-02 M13-60812
ON THE MICROSTRUCTURE OF UO2 PELLETS IRRADIATED AT HIGH TEMPERATURE 67-06 M16-71239
METALLOGRAPHIC EVIDENCE FOR A MARTENSITIC TRANSFORMATION IN U3SI 67-09 M14-77479
URANIUM COMPOUNDS, NUCLEAR FUELS
PRODUCTION AND PROPERTIES OF REACTOR FUELS 67-12 M20-83349
URANIUM COMPOUNDS, PHASE TRANSFORMATIONS
TEMPERATURE DEPENDENCE OF ELASTIC CONSTANTS AND THERMAL EXPANSION FOR UO2 67-03 M15-65311
URANIUM COMPOUNDS, PHASES /STATE OF MATTER/
HEXAGONAL URANIUM NITRIDE 67-05 M13-69344
PHASE STUDIES IN THE PSEUDOBINARY SYSTEM UN-UP 67-06 M14-71161
URANIUM CARBIDES, NITRIDES, PHOSPHIDES AND SULFIDES 67-11 M16-80463
URANIUM COMPOUNDS, PHYSICAL PROPERTIES
THE RELATIONSHIP OF PHYSICAL PROPERTIES, MICROSTRUCTURE, AND FABRICATION 67-02 M15-60707
PROPERTIES OF URANIUM MONOPHOSPHIDE 67-02 M15-61087
THE URANIUM-NITROGEN SYSTEM 67-11 M15-80195
URANIUM COMPOUNDS, POWDER METALLURGY
HOT-PRESSING OF URANIUM DIOXIDE 67-02 M09-59055
URANIUM COMPOUNDS, REACTIONS /CHEMICAL/
A METHOD FOR PREPARING DENSE SPHERICAL PARTICLES OF THORIUM AND THORIUM-URANIUM DICARBIDES 67-07 M09-73151
THE IGNITION OF URANIUM MONONITRIDE AND URANIUM MONOCARBIDE IN OXYGEN 67-07 M15-74237
URANIUM COMPOUNDS, SYNTHESIS
PREPARATION OF URANIUM CARBIDE FROM URANIUM CHLORIDE 67-02 M03-60680
URANIUM COMPOUNDS, THERMAL PROPERTIES
THE EFFECT OF ELECTRICAL CONDUCTION IN UO2 ON THE MEASUREMENT OF ITS HIGH TEMPERATURE THERMAL CONDUCTIVITY AS DETERMINED BY RADIAL FLOW TECHNIQUES 67-02 M15-59052
A METHOD OF MEASURING THERMAL DIFFUSIVITY BY HEATING OF STEP FUNCTION CHANGE 67-06 M15-71557
A STUDY OF UC1-XOX. PT. 3 67-07 M15-74013
URANIUM AND THORIUM OXIDES 67-11 M15-80462
THERMAL CONDUCTIVITY AND HEAT CAPACITY OF THE MONOCARBIDE, MONOPHOSPHIDE AND MONOSULFIDE OF URANIUM 67-11 M15-81089
THE DEPENDENCE ON MICROSTRUCTURE OF THE HIGH TEMPERATURE PROPERTIES OF URANIUM OXIDE MOLYBDENUM AND URANIUM OXIDE AND TUNGSTEN CERMETS. PT. 2. HEAT TRANSFER PROPERTIES 67-12 M15-82503
URANIUM ORES, BENEFICIATION
FACTORS INFLUENCING THE APPLICATION OF BACTERIAL LEACHING TO A CANADIAN URANIUM ORE 67-02 M02-61585
THE STUDIES ON THE POSSIBILITIES OF THORIUM RECOVERING FROM POLISH THORIUM ORES 67-02 M03-59129
FLOTATION OF SOME AUSTRALIAN URANIUM ORES 67-07 M02-73608
THE USE OF PACHUCA TANKS IN HYDROMETALLURGY 67-07 M02-74097
NEW METHOD SUGGESTED FOR LEACHING URANIUM ORE IN PLACE 67-08 M02-74364
FACTORS INFLUENCING THE APPLICATION OF BACTERIAL LEACHING TO A CANADIAN URANIUM ORE 67-08 M03-74952
THE FLOTATION OF MONAZITE USING ANIONIC CARBOXYLATE COLLECTORS 67-10 M02-79055
URANIUM OXIDES, BINARY SYSTEMS
THE URANIUM-DIOXIDE SYSTEM OF URANIUM ABOVE 1130 C 67-02 M13-62294
THERMAL DIFFUSION IN THE UO2-CEO2 SYSTEM 67-04 M14-67455
ELECTRICAL PROPERTIES OF MELTS OF SIO2-UO2 SYSTEMS 67-04 M15-67106
MONOXIDE-TYPE COMPOUNDS OF URANIUM AND PLUTONIUM. PT. 1. OXYCARBIDES 67-09 M14-76755
URANIUM OXIDES, CERMETS
PILOT PLANT DEVELOPMENT OF AN ELECTROLYTIC DISSOLVER FOR STAINLESS STEEL ALLOY NUCLEAR FUELS 67-06 M16-71019
URANIUM OXIDES, CHEMICAL ANALYSIS
MICROANALYSIS OF INCLUSIONS IN IRRADIATED UO2 67-09 M19-77468
URANIUM OXIDES, COATING

URANIUM OXIDES

CARBON-COATED CARBIDE PARTICLES FOR NUCLEAR FUEL ELEMENTS 67-02 M16-60713
URANIUM OXIDES, COMPACTING
VIBRATORY COMPACTION OF FUSED UO2 67-05 M05-69201
URANIUM OXIDES, CORROSION
MECHANISM OF CORROSION OF FUEL ALLOYS 67-09 M18-77318
URANIUM OXIDES, CRYSTAL GROWTH
EPITAXIAL GROWTH OF UO2 ON GRAPHITE 67-04 M14-67461
URANIUM OXIDES, CRYSTAL LATTICES
STACKING FAULTS AND ANTIPHASE BOUNDARIES IN U4O9 67-04 M13-67467
POINT DEFECTS IN BINARY COMPOUNDS 67-07 M13-74099
URANIUM OXIDES, DIFFUSION
DIFFUSION OF OXYGEN WITH UO2 UNDER AN ELECTRIC FIELD AT TEMPERATURES OF 900 TO 1000 C 67-04 M14-67462
DIFFUSION IN DOPED UO2 67-05 M16-68348
MIGRATION OF XENON THROUGH A UO2 MATRIX CONTAINING TRAPPING SITES 67-05 M16-68351
LATTICE AND GRAIN-BOUNDARY DIFFUSION OF URANIUM IN UO2 67-08 M14-74419
MIGRATION OF GAS BUBBLES IN IRRADIATED URANIUM DIOXIDE 67-10 M16-79593
SELF-DIFFUSION OF URANIUM IN URANIUM DIOXIDE--ROLE OF THE DEVIATION FROM STOICHIOMETRY AND OF GRAIN JOINTS 67-12 M14-83198
URANIUM OXIDES, ELECTRICAL PROPERTIES
PHOTOCURRENT AND THERMAL RELEASE TIME STUDIES OF URANIUM DIOXIDE 67-02 M16-60512
STUDIES OF THE ELECTRICAL PROPERTIES OF URANIUM OXIDES. PT. 3. THERMOELECTRIC POWER OF ALPHA-U3O8 67-05 M15-69772
URANIUM OXIDES, EXTRACTION
STUDY OF THERMAL REDUCTION OF POLYMORPHOUS URANIUM TRIOXIDE WITH CARBON 67-11 M03-81233
URANIUM OXIDES, FUEL ELEMENTS
CALCULATION OF FISSION-PRODUCT GAS PRESSURES IN OPERATING UO2 FUEL ELEMENTS 67-08 M19-74469
URANIUM OXIDES, GRAIN GROWTH
THEORY OF GRAIN GROWTH IN POROUS COMPACTS 67-03 M14-65866
URANIUM OXIDES, HEAT TREATMENT
HEAT TREATMENT OF URANIUM AND URANIUM-THORIUM OXIDES PRODUCED BY SOL-GEL PROCESS 67-02 M10-59413
URANIUM OXIDES, IRRADIATION
IRRADIATION PROPERTIES OF HIGH ENERGY RATE PNEUMATICALLY-IMPACTED UO2-PUO FUELS 67-09 M16-76356
IRRADIATION TESTING OF UO2-PUO2 FUELS 67-09 M16-76357
FISSION GAS RELEASE FROM MIXED OXIDE FUELS 67-09 M16-76358
URANIUM OXIDES, MAGNETIC PROPERTIES
MAGNETIC SUSCEPTIBILITIES OF CUBIC UO2 PLUS X AT HIGH TEMPERATURE 67-03 M15-65155
WEAK FERROMAGNETISM IN ANTIFERROMAGNETIC UO2 67-08 M15-75931
URANIUM OXIDES, MECHANICAL PROPERTIES
THE USE OF SPHERICAL UO2 IN A CERMET FUEL PLATE 67-06 M16-71053
ELASTICITY AND ANELASTICITY OF URANIUM OXIDES AT ROOM TEMPERATURE. PT. 1. STOICHIOMETRIC OXIDE 67-06 M17-71164
ISOTHERMAL YOUNGS MODULUS OF UO2 AND UO2-MO-CERMETS 67-10 M17-78361
URANIUM OXIDES, METALLOGRAPHY
ELECTRON MICROSCOPE OBSERVATION OF THE FISSION-GAS BUBBLE DISTRIBUTION IN UO2 67-05 M13-68347
URANIUM OXIDES, MICROSTRUCTURE
THE BEHAVIOR OF CRYSTALS AND VOIDS IN CENTRALLY HEATED GREEN PELLETS 67-01 M14-57991
THE INFLUENCE OF ORGANIC ADDITIONS ON COLUMNAR GRAIN GROWTH OF SINTERED URANIUM DIOXIDE 67-04 M14-67460
MICROSTRUCTURE OF IRRADIATED URANIUM DIOXIDE 67-07 M13-74198
BEHAVIOR OF SEVERAL RARE EARTH METAL OXIDE DISPERSIONS IN UO2 AT HIGH TEMPERATURE 67-08 M14-75605
MICROSTRUCTURE CHANGE INDUCED BY CENTER MELTING AND THE FORMATION OF CENTRAL VOIDS IN POWDER COMPACTED UO2 FUEL 67-09 M14-78222
URANIUM OXIDES, NUCLEAR FISSION
FISSION-GAS RELEASE DURING FISSIONING IN UO2 67-05 M16-68350
URANIUM OXIDES, NUCLEAR FUELS
PREPARATION OF UO2-PUO2-ZRO2 FUELS 67-09 M09-76339
SOME PROBLEMS OF THE PRODUCTION AND FABRICATION ECONOMICS OF SINTERED UO2 67-11 M16-80793
URANIUM OXIDES, NUCLEAR PROPERTIES
EJECTION OF URANIUM ATOMS FROM SINTERED UO2 67-09 M16-77476
URANIUM OXIDES, OXIDATION
OXIDATION OF U4O9 DURING HEATING IN AIR 67-09 M14-77124
URANIUM OXIDES, PHASE TRANSFORMATIONS
STRUCTURE, HIGH-TEMPERATURE AND SINTERING BEHAVIOR OF A NEW MODIFICATION OF U3O8 --P-U3O8-- 67-04 M14-66161
URANIUM OXIDES, PHASES /STATE OF MATTER/
THE SYSTEM UO2-EU2O3 AT HIGH TEMPERATURES 67-07 M13-74233
URANIUM OXIDES, PHYSICAL PROPERTIES
MAGNON CONTRIBUTION TO THE LOW-TEMPERATURE SPECIFIC HEAT OF UO2 67-05 M15-69768
URANIUM OXIDES, POWDER METALLURGY
ATOMIZING TECHNIQUES AS AUXILIARY MEANS IN THE POWDER SINTERING PROCESS 67-02 M09-58932
TECHNOLOGY OF UO2 SINTERING 67-02 M09-60992
INFLUENCE OF POWDER HEAT TREATMENT ON THE SINTERING OF --UPU--O2 67-09 M09-76337
PRODUCTION OF SINTERABLE, SLIGHTLY ENRICHED URANIUM DIOXIDE IN FLUIDIZED-BED FURNACES 67-09 M09-77202
FABRICATION OF DENSE UO2 BY HOT PRESSING AND COEXTRUSION 67-10 M09-78473
EFFECTIVE THERMAL CONDUCTIVITY AND STRUCTURAL CHANGE OF UO2 POWDER COMPACTED FUEL IN THERMAL SIMULATION EXPERIMENT 67-12 M15-83550
URANIUM OXIDES, RADIATION EFFECTS
PERFORMANCE OF PYROLYTIC CARBON-COATED URANIUM OXIDE PARTICLES DURING IRRADIATION AT HIGH TEMPERATURE 67-06 M16-71054
URANIUM OXIDES, REACTIONS /CHEMICAL/
REDUCTION OF U3O8 WITH SOLID CARBON 67-02 M03-60545
THE OXIDATION OF URANIUM-BASED CERAMICS, THE BEHAVIOR OF UC AND OF UC2 CONTAMINATED WITH CARBON CONTAINING PHASES 67-07 M14-74232
THE IGNITION OF URANIUM MONONITRIDE AND URANIUM MONOCARBIDE IN OXYGEN 67-07 M15-74237
KINETICS AND MECHANISM OF THE DISSOLUTION OF URANIUM DIOXIDE 67-07 M15-74261
SOME STUDIES OF THE HIGH TEMPERATURE BEHAVIOR OF PUO2 AND PUO2-UO2 MIXTURES 67-09 M14-76347
THE COMPATIBILITY OF MIXED OXIDES AND CARBIDES WITH REFRACTORY METALS 67-09 M14-76350
URANIUM OXIDES, REACTIONS /NUCLEAR/
STUDIES OF CERAMIC FUELS WITH THE USE OF FISSION GAS RELEASE LOOP. PT. 1. FISSION GAS RELEASE FROM UO2-GRAPHITE MIXTURE DURING IRRADIATION 67-08 M16-75804
URANIUM OXIDES, REDUCTION /CHEMICAL/
ON THE CARBON GASIFICATION REACTION IN URANIUM OXIDE REDUCTION PROCESSES 67-01 M03-57309
URANIUM OXIDES, SINGLE CRYSTALS
FISSION-GAS RELEASE FROM UO2 DURING IRRADIATION UP TO 2000 C 67-05 M16-68349
MICROPLASTICITY OF URANIUM DIOXIDE AT ROOM TEMPERATURE 67-05 M17-68571
URANIUM OXIDES, SINTERING
ON THE EFFECT OF TIO2 ADDITIONS ON SINTERING OF UO2 67-03 M14-65857
EXPERIMENTAL STUDY OF PRODUCTION OF THO2 AND THO2-UO2 PELLETS 67-04 M03-68037
URANIUM OXIDES, STANDARDS
STANDARDS FOR NUCLEAR FUEL MATERIALS 67-09 M19-77022
URANIUM OXIDES, THERMAL PROPERTIES
EFFECT OF IRRADIATION ON THE THERMAL CONDUCTIVITY OF UO2-X, STOICHIOMETRIC AND NONSTOICHIOMETRIC UO2 AT 60 C 67-04 M15-67458
UO2 THERMAL DIFFUSIVITY MEASUREMENTS WITH A MODULATED ELECTRON BEAM TECHNIQUE 67-05 M15-68650
UO2/SHEATH HEAT TRANSFER DURING IRRADIATION 67-06 M15-70713
THERMAL CONDUCTIVITY AND FAR-INFRARED ABSORPTION OF UO2 67-07 M15-73604
URANIUM OXIDES, THIN FILMS
SEMI-AUTOMATIC PREPARATION OF ULTRA-THIN AND LARGE-AREA PETROLOGICAL SECTIONS 67-03 M05-65673

THE DEPOSITION OF THIN FILMS OF ENRICHED URANIUM DIOXIDE 67-03 M12-65016
NEW TECHNIQUE FOR PREPARING UO2 THIN FOILS FOR ELECTRON MICROSCOPY 67-12 M13-82804
URANIUM OXIDES, TRANSPORT PROPERTIES
ELECTROLYSIS AND ION TRANSPORT MECHANISM IN URANIUM DIOXIDE 67-05 M15-69295
URANIUM OXIDES, X RAY ANALYSIS
A HIGH-TEMPERATURE X-RAY DIFFRACTOMETER FOR OPERATION UP TO 2500 C 67-04 M13-66245

V NOTCH CHARPY IMPACT TESTS
SEE IMPACT TESTS
V NOTCH CHARPY TESTS
SEE IMPACT TESTS
VACANCIES /CRYSTAL DEFECTS/
SEE LATTICE VACANCIES
VACANCIES /LATTICE/
SEE LATTICE VACANCIES
VACUUM ANNEALING
HIGH VACUUM ANNEALING 67-01 M10-58527
MECHANICAL PROPERTIES OF MA2-1 ALLOY CONTAINING VARIOUS AMOUNTS OF HYDROGEN 67-02 M17-61288
VACUUM HEAT TREATING--A BOON FOR THE COMMON METALS 67-03 M10-65478
EFFECT OF MICROHETEROGENEITY ON CRITICAL CURRENTS OF SUPERCONDUCTING ALLOYS 67-04 M16-66500
AN EXPERIMENTAL STUDY ON THE FATIGUE STRENGTH OF CARBON STEELS 67-04 M17-67596
NEW VACUUM FURNACE IMPROVES METAL PROPERTIES AND ELIMINATES FINISHING OPERATIONS 67-05 M10-69548
HIGH VACUUM PURIFICATION OF NIOBIUM AND TANTALUM AND ITS INFLUENCE ON THE ELECTRIC RESISTIVITY 67-06 M15-71668
HEAT TREATMENT AND DESCALING OF WIRE ROD IN VACUO 67-07 M10-72715
ANNEALING TRIALS ON STEEL WIRE IN VARIOUS FURNACE ATMOSPHERES 67-07 M10-72716
NUCLEAR-MAGNETIC-RESONANCE AND X-RAY STUDY OF SOLUTE LOSS BY INTERNAL OXIDATION IN COMMINUTED AND VACUUM-ANNEALED CU-MN ALLOYS 67-07 M15-73938
TITANIUM IS BEING READIED FOR MAJOR ROLE IN SST DESIGN 67-08 M07-76080
CONTINUOUS HIGH-VACUUM ELECTRON BEAM PROCESSING OF STRIP 67-09 M10-77559
HYDROGEN DETERMINATION IN ALUMINUM AND ALUMINUM ALLOYS BY ANNEALING IN A VACUUM AT 450 TO 600 C 67-09 M19-77032
PROCESSING PRECIPITATION HARDENING GRADES 67-10 M10-79760
STRUCTURAL CHANGES AND MECHANICAL PROPERTIES OF MOLYBDENUM AT ANNEALING 67-10 M17-79229
VACUUM HEAT TREATMENT FINDS GROWING FAVOUR 67-12 M10-82600

VACUUM ARC MELTING
SEE ELECTRIC ARC MELTING
VACUUM MELTING
VACUUM BRAZING
ON THE INTERACTION OF SOLDERS WITH TITANIUM DURING DIFFUSION BRAZING 67-01 M11-58209
VACUUM HEAT TREATING--A BOON FOR THE COMMON METALS 67-03 M10-65478
BRAZE ALLOY HOLDS BONDING STRENGTH OVER WIDE TEMPERATURE RANGE 67-06 M11-70011
REFRACTORY METALS BRAZED FOR OPERATION AT 2200 F 67-06 M11-72254
VACUUM BRAZING--WHEN AND HOW 67-07 M11-72798
FURNACE BRAZING INCONEL 718 FOR NUCLEAR REACTORS 67-08 M11-74496
VACUUM BRAZING AS A PRODUCTION TECHNIQUE FOR VACUUM EQUIPMENT 67-08 M11-75185
VACUUM --OR FLUXLESS-- BRAZING-GAS QUENCHING OF 6061 ALUMINUM ALLOY 67-08 M11-76067
NEW PRODCUT DESIGNS MAKE GREATER USE OF BRAZING 67-08 M11-76181
METALS JOINING 67-09 M11-77091
IMPROVED TECHNIQUES FOR VACUUM FURNACE BRAZING OF VARIOUS METALS 67-10 M11-78702
VACUUM CASTING
CUPOLA-TYPE COVER FOR VACUUM CASTING STEEL 67-02 M06-58882
METHOD OF PREPARING COMPOSITE CASTINGS 67-02 M06-60936
EQUIPMENT AND PRODUCTION TECHNOLOGY OF THIN-WALLED CASTINGS OF NONFERROUS ALLOYS 67-04 M06-67503
MECHANICAL PROPERTIES AND INHOMOGENEITY OF LARGE FORGINGS 67-04 M17-67370
THE VACUUM CASTING OF HIGH PURITY COPPER PARTS 67-08 M06-75037
CURRENT QUESTIONS ON THE RESEARCH AND USES OF THE CASTING PROPERTIES OF ALLOYS 67-08 M06-75103
VACUUM POURING AND SOLIDIFICATION OF CREEP RESISTING ALLOY CASTINGS 67-08 M17-74554
QUALITATIVE ANALYSIS OF FORGINGS OBTAINED FROM AIR AND VACUUM-CAST INGOTS 67-09 M01-78001
ERECTION AND START UP OF A VACUUM STEEL WORKS FOR PRODUCTION OF HIGH-QUALITY STEEL AT FREITAL 67-09 M04-77215

VACUUM CLEANERS
SEE ELECTRIC APPLIANCES
VACUUM DEGASSING
SEE ALSO STREAM DEGASSING
VACUUM DEGASSING OF STEEL BY STEAM EJECTOR 67-01 M04-58007
METHODS OF DEGASSING ALUMINUM MELTS AND POSSIBILITIES OF CONTROL 67-01 M06-58228
DEVELOPMENT TRENDS IN METALLIC MATERIALS 67-02 M01-60203
INFLUENCE OF VACUUM DEGASSING ON THE CONTENT OF HYDROGEN AND ALUMINUM OXIDE IN ALUMINUM AND ITS ALLOYS 67-02 M03-61619
VACUUM STEELMAKING 67-02 M04-58999
DETERMINATION OF THE EFFECT OF VACUUM DEGASSING ON THE QUANTITY OF INCLUSIONS IN STEEL 67-02 M04-59590
VACUUM DEGASSING OF STEEL--GENERAL PRINCIPLES OF DEGASIFICATION 67-02 M04-60524
VACUUM DEGASSING OF STEEL AT TIMKEN STEEL AND TUBE DIV 67-02 M06-60234
VACUUM-DEGASSED STEELS FROM THE CONSUMERS VIEWPOINT 67-03 M04-65068
VACUUM REFINING LARGE AMOUNTS OF TRANSFORMER STEEL 67-03 M04-65958
VACUUM DEGASSING IMPROVES STEEL FORGING QUALITY 67-03 M06-65117
VACUUM DEGASSING OF STEEL 67-03 M06-65410
VACUUM DEGASSING OF STAINLESS AND ALLOY STEELS 67-03 M06-65924
EFFECT OF VACUUM REMELTING ON THE GAS CONTENT OF COPPER 67-04 M03-66981
VACUUM DEGASSING TONNAGE PLATE STEEL 67-04 M04-66563
RH DEGASSING UNIT FOR PLATE STEELS AT APPLEBY-FRODINGHAM 67-04 M04-67753
KINETICS OF THE DEGASIFICATION OF MOLTEN STEEL IN A VACUUM 67-04 M04-67868
DEGASIFICATION OF METAL WHILE BEING TREATED WITH SLAGS 67-04 M04-67869
OXYGEN RIDES IN ARGON BUBBLES FOR DEGASSING OF STEEL 67-04 M04-68116
EQUIPMENT AND PRODUCTION TECHNOLOGY OF THIN-WALLED CASTINGS OF NONFERROUS ALLOYS 67-04 M06-67503
WEAR IN MAGNESITE-CHROMITE STOPPER TUBES IN VACUUM DEGASSING OF TRANSFORMER STEEL 67-05 M04-69308
VACUUM DEGASSING FOR STEEL PLATE 67-05 M04-69434
A DECADE OF VACUUM DEGASSING AT U. S. STEEL. PT. 2 67-05 M06-69551
METHOD OF VACUUMING METALS AND SIMULTANEOUSLY TREATING THEM WITH A SLAG COLUMN 67-06 M04-70147
THE MECHANISM OF THE RIMMING OF METAL DURING THE VACUUM TREATMENT OF BALL BEARING STEEL IN THE LADLE 67-06 M04-70271
STEEL DEOXIDIZED BY VACUUM TREATMENT AWAY FROM THE FURNACE 67-06 M04-70355
260,000 POUNDS VACUUM DEGASSING PLANT AT APPLEBY-FRODINGHAM 67-06 M04-70882
DEGASSING SYSTEM FOR ALLOY STEELS 67-06 M04-71035
VACUUM TREATMENT AND INERT GAS TREATMENT OF ELECTROMELTED STEELS IN A LADLE 67-06 M04-71253
SOME ASPECTS OF VACUUMING STEEL 67-06 M04-71879
REACTION BETWEEN LIQUID STEEL AND REFRACTORIES UNDER VACUUM. PT. 2. STUDY OF REFRACTORIES USED IN STEELMAKING 67-06 M04-72392
THE CASE FOR VACUUM DEGASSING 67-06 M06-72006
EFFECT OF THE TAP DEGASSING PROCESS ON THE DEGASSING OF STEEL FOR LARGE FORGINGS. PT. 1. EFFECT OF THE STATE OF DEOXIDATION OF THE BATH ON

DEGASSING 67-06 M06-72394
A DECADE OF IMPROVEMENTS IN GENERATOR ROTOR FORGINGS 67-06 M17-70725
CONSTRUCTION AND OPERATION OF AN R-H VACUUM STEEL DEGASSING PLANT 67-07 M04-72493
VACUUM DEGASSING OF STAINLESS AND ALLOY STEELS 67-07 M04-72774
STEEL DEGASSING METHODS IN THE UNITED STATES 67-07 M04-72904
VACUUM DEGASSING FOR TONNAGE PLATE STEELS 67-07 M04-73082
THE ASEA-SKF DEGASSING PROCESS 67-07 M04-73328
VACUUM DEGASSED VS AIR MELTED STEELS--NO CLEAR-CUT WINNER 67-07 M04-73332
NEW METHODS IN THE VACUUM TREATMENT OF STEEL 67-07 M06-74112
VACUUM DEGASSING OF LIQUID METALS WITH A GAS BUBBLE PUMP 67-08 M03-75048
INFLUENCE OF OXYGEN AND THE PARTIAL PRESSURE OF WATER VAPOR ON THE DEGASSING OF NB AND TA 67-08 M03-75050
KINETICS OF THE EVOLUTION OF NITROGEN FROM MN-FE AND MN-SI ALLOYS INVESTIGATED BY MASS SPECTROMETRY 67-08 M03-75450
PROGRESS IN THE OXYGEN AND NITROGEN CONTROL IN STEEL PRODUCTION 67-08 M04-74451
ASEA-SKF--VACUUM DEGASSING PROCESS 67-08 M04-74655
POSSIBILITIES OF VACUUM-GAS-METALLURGY IN THE PRODUCTION OF STEELS 67-08 M04-75049
TREATMENT OF MOLTEN ELECTRIC STEEL UNDER VACUUM AND WITH INERT GAS OUTSIDE THE FURNACE 67-08 M04-75722
THREE NEW INDUSTRIAL PROCESSES FOR DEGASSING MOLTEN STEEL 67-08 M04-76165
DEGASSING OF CU BY HEATING IN AN ULTRAHIGH VACUUM 67-08 M06-75184
GAS CONTENT IN VACUUM MELTED CAST COPPER 67-08 M06-76247
INVESTIGATION OF THE GASEOUS PHASE AND CONDITIONS OF DEGASSING CHARGES IN THE PRODUCTION OF ALKALINE METALS BY VACUUM-THERMAL METHODS 67-09 M03-77049
OPERATIONAL ASPECTS OF STEELMAKING AT DOMNARVET 67-09 M04-76422
CONTROL OF LADLE ANALYSIS USING A VACUUM DEGASSING UNIT 67-09 M04-76424
CONSUMABLE-ARC VACUUM MELTED STEEL FOR FORGINGS 67-09 M04-76506
THE CARBON-OXYGEN REACTION DURING DEGASSING OF STEEL MELTS BY THE VACUUM LIFTER PROCESS 67-09 M04-76701
STEEL DEGASSING PLANT FOR SOUTH AFRICA 67-09 M06-76666
VACUUM STEELMAKING 67-10 M04-79302
VACUUMING STEEL OUTSIDE THE FURNACE 67-10 M04-79822
LADLE-TO-LADLE VACUUM STREAM DROPLET DEGASSING AT SHARON STEEL CORPORATION. PT. 2 67-10 M06-78703
CONTINUOUS CIRCULATION VACUUM DEGASSING 67-11 M04-80114
OUTGASSING OF METAL SURFACES BY ELECTRON BOMBARDMENT 67-11 M04-80424
LADLE-TO-LADLE VACUUM STREAM DROPLET DEGASSING AT SHARON STEEL CORPORATION. PT. 3 67-11 M04-80905
DEGASSING SHKH15 STEEL 67-11 M04-81010
METHODS OF INVESTIGATING DEGASSING KINETICS DURING VACUUMING OF STEEL 67-11 M04-81012
METHOD FOR INVESTIGATING DEGASSING OF STEEL DURING VACUUMING 67-11 M04-81013
PROCESS TECHNOLOGY IN THE IRON AND STEEL INDUSTRY 67-11 M04-81132
BALLBEARING LIFE--EFFECT OF SILICOBARIUM AS A DEOXIDIZER, AND OF VACUUMING 67-11 M04-81405
USE OF VACUUM IN STEELMAKING --NEW ASPECTS OF VACUUM METALLURGY-- 67-11 M04-81453
HOW DEGASSING METHODS AFFECT HYDROGEN IN THE STEEL 67-11 M04-81625
THE BASIC MECHANISMS OF MOVEMENT OF A GAS-METAL MIXTURE DURING CIRCULATION VACUUM DEGASSING 67-11 M04-81651
DEVICE FOR CONTINUOUS DEGASSING OF METAL 67-11 M06-81225
HOW VACUUMING AFFECTS THE QUALITY OF BALL BEARING STEEL 67-12 M17-83456

VACUUM DEGASSING, KINETICS
DEGASSING KINETICS OF METAL-NITROGEN-SOLID SOLUTIONS. PT. 1. THEORETICAL CONSIDERATIONS 67-02 M14-60125

VACUUM DEOXIDATION
STABILITY OF REFRACTORIES DURING VACUUM DEOXIDATION OF STEEL 67-03 M04-65357
PERFORMANCE OF MISCH METAL IN THE DEOXIDATION AND DESULFURIZATION OF PURE IRON. PT. 7. INVESTIGATIONS INTO PURE IRON 67-06 M04-72288
DEOXIDATION OF LIQUID STEEL UNDER REDUCED PRESSURE BY HYDROGEN 67-06 M04-72290

VACUUM DEPOSITED COATINGS
EPITAXIAL GROWTH OF GERMANIUM ON GERMANIUM SUBSTRATES CLEANED AND HEATED BY ELECTRON BOMBARDMENT 67-02 M14-61525
DEPOSITION OF THIN FILMS UNDER THE INFLUENCE OF FAST ION IRRADIATION 67-04 M12-67057

VACUUM DEPOSITED COATINGS, ADHESION
ADHESION OF VACUUM DEPOSITED THIN METAL FILMS 67-08 M12-75176

VACUUM DEPOSITED COATINGS, COATING
DEPOSITION OF TANTALUM, TANTALUM OXIDE, AND TANTALUM NITRIDE WITH CONTROLLED ELECTRICAL CHARACTERISTICS 67-01 M12-57107

VACUUM DEPOSITED COATINGS, CRYSTAL GROWTH
EPITAXIAL DEPOSITION OF GERMANIUM BY BOTH SPUTTERING AND EVAPORATION 67-01 M14-57106
EPITAXY OF BODY-CENTERED CUBIC METALS EVAPORATED ONTO CLEAVAGE FACES OF ROCKSALT 67-02 M13-60522
EPITAXIAL FILMS OF ZNTE ON IONIC SUBSTRATES 67-02 M14-59013
GROWTH OF INAS WHISKERS IN WURTZITE STRUCTURE 67-02 M14-59067
THE FORMATION OF SINGLE CRYSTAL FILMS OF FCC METALS ON ALKALI HALIDE CLEAVAGE PLANES IN ULTRAHIGH VACUUM 67-03 M14-65381
ORIENTED GROWTH OF SEMICONDUCTORS. PT. 4. VACUUM DEPOSITION OF EPITAXIAL INDIUM ANTIMONIDE 67-03 M14-65874
FORMATION TEMPERATURES FOR EVAPORATED EPITAXIAL GERMANIUM FILMS 67-04 M14-66393
FORMATION TEMPERATURES FOR EVAPORATED EPITAXIAL GERMANIUM FILMS 67-05 M14-68590
CRYSTAL GROWTH AND ORIENTATION OF VACUUM DEPOSITED FILMS OF CDTE 67-07 M14-73318

VACUUM DEPOSITED COATINGS, CRYSTAL LATTICES
ELECTRON DIFFRACTION STUDIES OF THE EPITAXY OF CU SINGLE CRYSTALS. PT. 1. EPITAXY OF EVAPORATED CU FILMS ON CU CRYSTALS 67-01 M13-57108
MULTIPLE DIFFRACTION EFFECTS IN ANNEALED PERMALLOY FILMS 67-03 M13-65882
TEXTURAL AND ELECTRICAL PROPERTIES OF VACUUM-DEPOSITED GERMANIUM FILMS 67-05 M14-68622
EFFECTS OF IMPURITIES ON THE STRUCTURE OF EPITAXIAL GOLD FILMS 67-09 M14-77461

VACUUM DEPOSITED COATINGS, ELECTRICAL PROPERTIES
VACUUM-DEPOSITED AMORPHOUS BORON FILMS 67-01 M16-58420
ELECTRICAL PROPERTIES OF SINGLE-CRYSTAL SILVER FILMS 67-04 M15-67661
ELECTRICAL PROPERTIES OF VACUUM DEPOSITED NICKEL FILMS 67-05 M15-69094
CHANGE OF ELECTRICAL RESISTANCE OF PALLADIUM FILM DUE TO ADSORPTION OF CARBON MONOXIDE 67-06 M15-71029
SOME DIELECTRIC AND ELECTRONIC PROPERTIES OF CDSE FILMS 67-06 M16-71185
ELECTRICAL RESISTIVITY OF INDIUM-ANTIMONY ALLOY FILMS PREPARED BY VACUUM EVAPORATION 67-10 M15-78775

VACUUM DEPOSITED COATINGS, HEAT TREATMENT
EFFECT OF HEAT-TREATMENTS IN VACUUM-DEPOSITED CDS/AG AND CDS/LI FILMS 67-11 M14-80820

VACUUM DEPOSITED COATINGS, MAGNETIC PROPERTIES
EFFECTS OF GASES ON THE PROPERTIES OF VAPOR-DEPOSITED NI-FE FILMS 67-01 M15-57113
THE EFFECT OF UNIAXIAL ELASTIC STRESSES ON THE REMAGNETIZATION OF THIN PERMALLOY LAYERS 67-01 M15-57571
THE STRUCTURE AND POLARITY OF DOMAIN BOUNDARIES IN FERROMAGNETIC LAYERS 67-01 M15-57572
TEMPERATURE DEPENDENCE OF UNIAXIAL ANISOTROPY AND ANISOTROPY DISPERSION IN NI-FE THIN FILMS 67-02 M15-59070
MOBILITY AND LOSS MECHANISMS FOR DOMAIN WALL MOTION IN THIN FERROMAGNETIC FILMS 67-02 M15-61079
OBLIQUE-INCIDENCE ANISOTROPY IN COBALT FILMS 67-02 M15-61523

IN-SITU MEASUREMENTS OF MAGNETIC PROPERTIES IN VACUUM-DEPOSITED PERMALLOY FILMS
67-04 M15-67104
TEMPERATURE DEPENDENCE AND CRITICAL TEMPERATURE OF MAGNETIC DOMAIN STRUCTURES IN THIN FILMS
67-04 M15-67471
ORIGIN OF THE PERIODIC COMPONENT OF ANISOTROPY DISPERSION IN NI-FE THIN FILMS
67-05 M15-69289
OBLIQUE-INCIDENCE ANISOTROPY AND DOMAIN CONFIGURATION IN NI-CO FILMS 67-05 M15-69762
SUBSTRATE TEMPERATURE DEPENDENCE OF OBLIQUE-INCIDENCE ANISOTROPY IN NI-FE FILMS
67-05 M15-69764
ELASTORESISTANCE EFFECT IN THIN FILMS OF CU-NI
67-06 M15-71546
MAGNETIC THIN FILMS DEPOSITED ONTO A LIQUID-LIKE SURFACE 67-06 M15-71547
ORIGIN OF STRIPE DOMAINS IN NI-FE FILMS
67-07 M15-73570
ANISOTROPY CONSTANT OF 50..50 NI-CO ALLOY FILMS
67-07 M15-73572
PARALLEL OBLIQUE-INCIDENCE ANISOTROPY IN NIFE FILMS
67-07 M15-73574
MAGNETOSTRESS EFFECTS IN EVAPORATED NI FILMS
67-07 M15-73575
DEPENDENCE OF MAGNETIC ANISOTROPY ON THE CRYSTAL STRUCTURE OF NI-FE THIN FILMS
67-07 M15-73576
ANOMALOUS HYSTERESIS LOOPS IN PERMALLOY THIN FILMS NEAR 4.2 K 67-07 M15-73578
ZERO MAGNETOSTRICTION COMPOSITION OF NIFE FILMS
67-07 M15-73598
FERROMAGNETIC RESONANCE IN EVAPORATED THIN FILM OF MNSB 67-07 M15-73987
MAGNETIC PERPENDICULAR ANISOTROPY OF NICKEL THIN FILMS EVAPORATED IN ULTRA HIGH VACUUM
67-07 M15-73988
EFFECT OF STRUCTURE AND PHASE COMPOSITION ON THE COERCIVE FORCE OF CONDENSED COBALT FILMS
67-10 M15-79839

VACUUM DEPOSITED COATINGS, MECHANICAL PROPERTIES
DEFORMATION CAUSED BY STYLUS TRACKING ON THIN GOLD FILM 67-01 M17-57557
STRENGTH OF MULTILAYERED VACUUM CONDENSATES
67-05 M17-68578
STRESS IN VACUUM DEPOSITED FILMS OF SILVER
67-05 M17-69291

VACUUM DEPOSITED COATINGS, OPTICAL PROPERTIES
ANOMALOUS OPTICAL EFFECTS IN GERMANIUM FILMS
67-01 M15-57219
THE OPTICAL PROPERTIES OF INDIUM, GALLIUM AND THALLIUM 67-06 M15-72089

VACUUM DEPOSITED COATINGS, OXIDATION
HIGH-TEMPERATURE OXIDATION OF THIN MAGNESIUM FILMS
67-04 M18-66668

VACUUM DEPOSITED COATINGS, PHASE TRANSFORMATIONS
FACE-CENTERED-CUBIC TUNGSTEN FILMS
67-04 M14-68073

VACUUM DEPOSITED COATINGS, PHYSICAL PROPERTIES
POROSITY AND COERCIVE FORCE IN EVAPORATED PERMALLOY THIN FILMS 67-02 M15-59063
ELECTRICAL AND THERMOMETRIC PROPERTIES OF SUPERIMPOSED LEAD-COPPER FILMS AT LOW TEMPERATURES 67-04 M15-66120

VACUUM DEPOSITED COATINGS, REACTIONS /CHEMICAL/
ELECTRON MICROSCOPIC OBSERVATION ON HEAT OXIDATION OF VACUUM-DEPOSITED ALUMINIUM FILMS
67-04 M14-66998
THE OXIDATION OF VACUUM DEPOSITED THIN FILMS IN A JET STREAM OF O2 67-08 M12-75179

VACUUM DEPOSITED COATINGS, SCATTERING
INELASTIC SCATTERING OF ELECTRONS IN BERYLLIUM AND LEAD AT LARGE ANGLES OF INCIDENCE OF THE PRIMARY BEAM 67-06 M16-71913

VACUUM DEPOSITED COATINGS, STRESSES
STRESS IN FILMS OF SILICON MONOXIDE
67-03 M12-65751

VACUUM DEPOSITED COATINGS, SUPERCONDUCTIVITY
MAGNETIC PROPERTIES OF SUPERCONDUCTING SN FILMS
67-03 M16-65646

VACUUM DEPOSITED COATINGS, SURFACE PROPERTIES
DETERMINING THE TRUE SURFACE VALUE OF ZN, CD AND MG VACUUM CONDENSATES IN THE PROCESS OF OXIDATION
67-04 M18-67654

VACUUM DEPOSITED COATINGS, TRANSPORT PROPERTIES
EFFECT OF SUBSTRATE TEMPERATURE ON HALL COEFFICIENT OF THIN FILMS 67-01 M15-57214
HIGH-MOBILITY PBS AND CDS FILMS DEPOSITED UNDER ULTRAHIGH VACUUM EQUILIBRIUM CONDITIONS
67-06 M14-71140

VACUUM DEPOSITION
SEE ALSO VACUUM METALLIZING
NEW METALLIC COATINGS AND TREATMENTS FOR CONTAINER STEEL SURFACES 67-01 M12-57547
A LABORATORY INSTALLATION FOR PREPARING THIN MULTILAYER FILMS BY VACUUM DEPOSITION
67-02 M12-58840
METALLIC COATINGS ON PAPER AND PLASTICS
67-02 M12-60045
EFFECT OF ANNEALING ON THE STRUCTURE OF VACUUM METAL CONDENSATES 67-02 M13-61926
PREPARATION OF SINGLE CRYSTALS OF IRON AND IRON ALLOYS 67-02 M14-60622
THIN FILMS OF AMORPHOUS IRON 67-02 M14-60822
REPRODUCIBLE PREPARATION OF SN1-XPBXTE EPITAXIAL FILMS WITH MODERATE CARRIER CONCENTRATIONS
67-02 M14-61823
EVAPORATION AND DEPOSITION RATES, STICKING PROBABILITY, AND BACKGROUND PRESSURE DURING THE PRODUCTION OF THIN FILMS IN VACUUM
67-02 M14-61827
INFLUENCE OF THE VAPORIZATION METHOD ON THE STRUCTURE AND PROPERTIES OF AL AND CU VACUUM CONDENSATES 67-02 M17-62080
THE DEPOSITION OF THIN FILMS OF ENRICHED URANIUM DIOXIDE 67-03 M12-65016
SIMPLIFIED OPERATIONS ANALYSIS IN CONTINUOUS SPUTTERING OF THIN FILMS 67-03 M12-65066
STRESS IN FILMS OF SILICON MONOXIDE
67-03 M12-65751
ORIENTED GROWTH OF SEMICONDUCTORS. PT. 4. VACUUM DEPOSITION OF EPITAXIAL INDIUM ANTIMONIDE
67-03 M14-65874
HALL EFFECT OF THIN IRON FILMS 67-03 M15-65187
DEPOSITION OF THIN FILMS UNDER THE INFLUENCE OF FAST ION IRRADIATION 67-04 M12-67057
LABORATORY APPARATUS FOR PREPARING THIN MULTILAYER FILMS BY VACUUM VAPORIZATION 67-04 M12-68086
FORMATION TEMPERATURES FOR EVAPORATED EPITAXIAL GERMANIUM FILMS 67-05 M14-68590
GROWTH OF THIN GOLD FILMS ON ROCKSALT FROM 80 K. TO 475 K 67-05 M14-69214
RELATION OF DEGREE OF VACUUM DURING EVAPORATION TO THE CLEANLINESS OF THE METAL-SEMICONDUCTOR CONTACT 67-05 M16-68568
APPARATUS FOR PREPARING THIN LAYERS BY VACUUM EVAPORATION WITH CONTROL OF THE ELECTRICAL RESISTIVITY IN THE EVAPORATION AND HEAT TREATMENT PROCESS 67-06 M12-70931
STRAIN SENSITIVITY OF VACUUM DEPOSITED THIN FILMS
67-06 M12-71953
THE STRUCTURE OF SILVER FILMS DEPOSITED ON MICA SUBSTRATES IN ULTRAHIGH VACUUM
67-06 M14-71023
AN A-C ELECTRON BOMBARDMENT TECHNIQUE FOR VACUUM DEPOSITION OF CARBON 67-07 M12-72809
PULSE INVESTIGATIONS OF MAGNETIC MULTILAYER STORAGE ELEMENTS AND NI-FE FILMS WITH DIFFUSED CU
67-07 M15-73806
DESIGN OF A NEW VACUUM DEPOSITION SPECIMEN HOLDER FOR AN ELECTRON MICROSCOPE OPERATING AT 10-8 TORR
67-08 M12-74787
BIAS SPUTTERING OF MOLYBDENUM FILMS
67-08 M12-75042
RECENT DEVELOPMENTS IN THE VACUUM DEPOSITION OF ELECTRONIC FILM CIRCUITS 67-08 M12-75175
ADHESION OF VACUUM DEPOSITED THIN METAL FILMS
67-08 M12-75176
RESISTIVITY MEASUREMENTS OF VACUUM-RESIDUAL GASES DURING VACUUM DEPOSITION OF AU AND NI
67-08 M12-75181
PREPARATION OF PHOTOSENSITIVE FILMS OF CADMINUM SULFIDE BY VACUUM EVAPORATION
67-08 M12-75182
VACUUM EVAPORATION OF SILVER 67-08 M12-75637
THE LARGE-SCALE DEPOSITION OF PROTECTIVE LAYERS ON STEEL STRIP BY VACUUM DEPOSITION
67-08 M12-75671
CORROSION-RESISTANT COATINGS BY PHYSICAL VAPOR PLATING 67-08 M12-76056
EPITAXIAL GROWTH OF SI ON SI IN ULTRAHIGH VACUUM
67-08 M14-75157
SOME EXPERIMENTS IN THE REACTIVE EVAPORATION OF TANTALUM OXIDE 67-08 M14-75160
PREPARATION OF HIGH-MOBILITY THIN FILMS OF INDIUM ANTIMONIDE 67-08 M14-75161
AGGREGATION OF AG AND AU THIN FILMS THAT ARE

VACUUM DEPOSITION
DEPOSITED ON CARBON FOILS AT ELEVATED TEMPERATURES AND IN ULTRAHIGH VACUUM 67-08 M14-75164
THE DEPENDENCE OF THE ELECTRICAL CHARACTERISTICS OF NI-CR THIN FILMS ON EVAPORATION PARAMETERS 67-08 M15-75183
CHARACTERISTICS OF THIN FILM SEMICONDUCTOR STRAIN GAGES 67-09 M12-77305
PREPARATION OF THIN SELF-SUPPORTING BERYLLIUM FOILS 67-09 M12-78031
EVIDENCE FOR PSEUDOMORPHIC GROWTH OF IRON ON COPPER 67-09 M14-77517
CESIUM DEPOSITION ON STAINLESS STEEL 67-10 M12-78729
EPITAXIAL GROWTH OF GOLD AND SILVER ON MAGNESIUM OXIDE CLEAVED IN ULTRAHIGH VACUUM 67-10 M14-79405
A SURVEY OF THIN-FILM VACUUM DEPOSITION TECHNIQUES 67-11 M12-80362
ELECTRON BEAM INSTALLATION FOR VACUUM EVAPORATION OF METALLIC AND NONMETALLIC MATERIALS 67-12 M12-81893
CONTROL GLASS PROPERTIES WITH FILMS AND COATINGS 67-12 M12-83176
EPITAXIAL GROWTH OF VACUUM-EVAPORATED CO ON NACL. PT. 1. CONDITIONS LEADING TO EPITAXY 67-12 M14-82007
EPITAXIAL GROWTH OF VACUUM-EVAPORATED CO ON NACL. PT. 2. ANALYSIS OF DIFFRACTION PATTERNS 67-12 M14-82008
VACUUM DEPOSITION, TEMPERATURE CONTROL
SUBSTRATE-TEMPERATURE MEASUREMENT AND CONTROL 67-08 M19-74563
VACUUM DIFFUSION
DEPOSITION OF TANTALUM, TANTALUM OXIDE, AND TANTALUM NITRIDE WITH CONTROLLED ELECTRICAL CHARACTERISTICS 67-01 M12-57107
VACUUM DISTILLATION
PURIFICATION OF BERYLLIUM BY HIGH VACUUM DISTILLATION 67-03 M03-65239
PREPARATION OF HIGH-PURITY BERYLLIUM 67-03 M03-65240
IMPURITY REMOVAL BY DISTILLATION OF BERYLLIUM FROM THE SOLID STATE 67-03 M03-65242
MORPHOLOGICAL OBSERVATIONS AFTER DISTILLATION OF BERYLLIUM FROM THE SOLID STATE AT HIGH TEMPERATURES 67-03 M03-65243
PRODUCTION OF HIGH-PURITY SILICON BY VACUUM DISTILLATION AS CHLORIDE 67-05 M03-69261
PURIFICATION OF BERYLLIUM BY CRUCIBLE-FREE VACUUM MELTING AND DISTILLATION PROCESSES 67-07 M03-73734
ELECTRON BEAM VAPORIZATION OF BERYLLIUM 67-07 M03-73738
REFINING OF BLACK TIN FROM LEAD AND BISMUTH IN A CONTINUOUS HEAT-TREATING VACUUM FURNACE 67-08 M03-75148
FABRICATION OF TELLURIUM THIN FILM TRANSISTOR 67-09 M16-78184
INVESTIGATION OF THE VACUUM DISTILLATION KINETICS OF MAGNESIUM ALLOYS 67-10 M03-79133
SEPARATION OF RARE EARTH METALS AND IRON BY DISTILLATION IN THE ELECTRON BOMBARDMENT FURNACE 67-12 M03-81816
PURITY OF METALS ATTAINS 99.99999 PER CENT 67-12 M03-81940
VACUUM DISTILLATION OF ANTIMONY METAL 67-12 M03-82900
VACUUM DISTILLATION, COMPUTERS
USE OF COMPUTERS FOR CENTRALIZED CONTROL OF TITANIUM SPONGE MANUFACTURING 67-02 M03-59195
VACUUM DRILLING
SEE DRILLING
VACUUM ETCHING
THE THERMAL ETCHING FIGURES OF METAL MICROSECTIONS 67-05 M13-68250
THE CONNECTION BETWEEN THE SURFACE MORPHOLOGY OF SPECIMENS OF CHROMIUM STEELS SUBJECTED TO THERMAL ETCHING AND THEIR DISLOCATION STRUCTURE 67-06 M13-70342
VACUUM FORMING
A LOOK AT SOME UNCONVENTIONAL NEW METAL-FORMING METHODS 67-03 M07-65400
VACUUM FURNACES
SEE ALSO ELECTRON BEAM FURNACES
VACUUM INDUCTION FURNACES
SOLID STATE DIFFUSION OF ANTIMONY IN GERMANIUM, FROM THE VAPOR PHASE, IN A VACUUM FURNACE 67-03 M14-65768
FURNACE ELIMINATES FINISHING 67-05 M10-68420
NEW VACUUM FURNACE IMPROVES METAL PROPERTIES AND ELIMINATES FINISHING OPERATIONS 67-05 M10-69548
VACUUM BRAZING AS A PRODUCTION TECHNIQUE FOR VACUUM EQUIPMENT 67-08 M11-75185
CLOSED-DIE FORGING IN SCOTLAND 67-09 M07-77377
VACUUM FURNACES AND HEAT TREATMENTS 67-10 M10-78854
VACUUM FURNACES, AUTOMATION
AUTOMATIC TOP-LOADED VACUUM FURNACE UTILIZED FOR SHEET OR PLATE HEAT TREATMENT 67-07 M10-73840
VACUUM FURNACES, DESIGN
AN APPARATUS FOR MEASURING THERMAL EXPANSION AT ELEVATED TEMPERATURES 67-08 M15-76156
VACUUM FUSION ANALYSIS
THE STATUS OF HIGH PURITY AT A. W. R. E. ALDEMASTON 67-03 M19-65248
CONTRIBUTION TO THE INVESTIGATION OF THE DETERMINATION OF OXYGEN IN BERYLLIUM BY HIGH-VACUUM MELTING 67-03 M19-65251
THE PROBLEMS OF HIGH OXYGEN CONTENT IN LIQUID STEEL AND POSSIBLE METHODS OF CONTROL 67-07 M19-73100
VACUUM GAGES
SEE ALSO IONIZATION GAGES
KNUDSEN GAGES
ELECTRON MICROSCOPE OBSERVATION OF ATOMIC PLANES AND ATOMIC POSITIONS IN GERMANIUM 67-02 M13-61691
VACUUM INDUCTION FURNACES
VACUUM METALLURGY, PROCEDURES AND EQUIPMENT 67-02 M06-61651
DEOXIDATION OF LIQUID STEEL UNDER REDUCED PRESSURE BY HYDROGEN 67-06 M04-72290
VACUUM INDUCTION MELTING
SEE INDUCTION MELTING
VACUUM MELTING
VACUUM MEASUREMENT
SEE VACUUM GAGES
VACUUM MELTING
EVAPORATION OF MANGANESE, COPPER AND TIN FROM MOLTEN IRON UNDER VACUUM 67-01 M04-58318
INDUCTION MELTING FOR PRECISION-INVESTMENT CASTING 67-01 M06-58541
IMPROVEMENT IN THE MECHANICAL PROPERTIES OF BORON STEEL BY VACUUM MELTING 67-01 M17-58079
DEVELOPMENT TRENDS IN METALLIC MATERIALS 67-02 M01-60203
CONSUMABLE ELECTRODE MELTING OF ALUMINUM ALLOYS IN VACUUM ARC FURNACE 67-02 M03-61622
VACUUM STEELMAKING 67-02 M04-58999
VACUUM METALLURGY, PROCEDURES AND EQUIPMENT 67-02 M06-61651
PROPERTIES OF VACUUM-REMELTED HIGH SPEED STEELS 67-02 M14-59108
EFFECT OF TEMPERATURE CONDITIONS ON THE PROPERTIES AND GAS CONTENT OF A VACUUM-MELTED CHROMIUM-NICKEL ALLOY 67-02 M17-61905
COLUMBIUM METAL BY THE ALUMINOTHERMIC REDUCTION OF CB2O5 67-03 M03-65007
LARGEST TITANIUM MELTING PLANT 67-03 M03-65149
STUDY OF VACUUM MELTING OF BERYLLIUM 67-03 M03-65285
PRODUCING INGOTS OF OXYGEN-FREE COPPER 67-04 M03-66976
EFFECT OF VACUUM REMELTING ON THE GAS CONTENT OF COPPER 67-04 M03-66981
EVOLUTION OF ELECTRIC FURNACES FOR VACUUM MELTING OF URANIUM 67-04 M03-67218
MECHANISM OF ALLOYING ELEMENTS EVAPORATION DURING THE VACUUM INDUCTION MELTING OF STEEL 67-04 M04-66731
MECHANICAL PROPERTIES AND INHOMOGENEITY OF LARGE FORGINGS 67-04 M17-67370
ON THE PROCESS OF EVOLUTION OF HYDROGEN FROM ALUMINIUM HEATED IN VACUO BELOW THE MELTING POINT 67-04 M19-67572
THE FLOATING ZONE MELTING OF REFRACTORY METALS BY ELECTRON BEAM BOMBARDMENT. PT. 6. THE ELECTRON BEAM MELTING OF REFRACTORY METALS 67-05 M03-69855
REGULARITIES IN ELIMINATION OF NONMETALLIC INCLUSIONS DURING VACUUM ARC MELTING 67-05 M04-69605
LARGE SCALE ELECTRON-BEAM PROCESSES 67-06 M16-72053

THE EFFECT OF VACUUM REMELTING ON THE PROPERTIES OF HOT-WORK TOOL STEELS 67-06 M17-71197
PURIFICATION OF BERYLLIUM BY CRUCIBLE-FREE VACUUM MELTING AND DISTILLATION PROCESSES 67-07 M03-73734
THE ELECTRON BEAM MELTING OF TITANIUM 67-08 M03-74356
A COMPARATIVE ANALYSIS OF THE TECHNICAL-ECONOMIC INDEXES OF STEEL PRODUCTION IN VACUUM ARC AND ELECTROSLAG FURNACES 67-08 M04-74350
COMPARATIVE INSPECTION OF THE REMELTING CONDITIONS IN THE VACUUM ARC FURNACE AND THE ELECTRON BEAM MULTICHAMBER FURNACE 67-08 M04-75039
ZINC ALLOY INGOTS MELTED IN VACUUM AND CAST UNDER PRESSURE 67-08 M06-74676
EVAPORATION OF MANGANESE, COPPER AND TIN FROM MOLTEN IRON UNDER VACUUM 67-08 M15-74425
THE PRESENT STATE OF REMELTING HIGH-QUALITY STEEL BY SPECIAL METHODS 67-09 M04-77214
ERECTION AND START UP OF A VACUUM STEEL WORKS FOR PRODUCTION OF HIGH-QUALITY STEEL AT FREITAL 67-09 M04-77215
AN ELECTRON BEAM MULTICHAMBER FURNACE OF 1700 KW 67-09 M04-77216
THE RELATIONSHIP BETWEEN BILLET MELTING TECHNIQUE AND SURFACE QUALITY IN INGOT CASTING WITH A 200-KW MULTICHAMBER, ELECTRON BEAM FURNACE 67-09 M04-77219
METALLURGICAL DETAILS IN THE REMELTING OF S6-5-2 HIGH-SPEED STEEL IN A 200-KW ELECTRON BEAM MULTICHAMBER FURNACE 67-09 M04-77220
INFLUENCE OF MELTING UNDER VACUUM ON THE PROPERTIES OF FERRITIC HIGH-TEMPERATURE STEEL 67-09 M04-77222
MODIFICATION OF THE PURITY LEVEL OF ROLLER BEARING STEEL THROUGH REMELTING AND SPECIAL METHODS 67-09 M04-77226
BEHAVIOR OF RAW INGOT SOLIDIFICATION BY VACUUM ARC MELTING 67-09 M06-77221
VACUUM STEELMAKING 67-10 M04-79302
EXTRANEOUS INCLUSIONS IN ELECTROSLAG AND VACUUM-ARC REMELTED STEEL 67-10 M04-79814
LOSSES OF MANGANESE DURING VACUUM SMELTING OF FE-MN ALLOYS 67-10 M04-79867
THE MELTING OF NI-CR BASE ALLOYS IN A HIGH VACUUM 67-11 M03-80842
INDUSTRIAL EXPERIENCES WITH A LARGE VACUUM ELECTRIC ARC FURNACE WITH SELFFEEDING ELECTRODES 67-11 M04-80205
THE INFLUENCE OF ALLOYING ELEMENTS ON THE O2 AND N2 CONTENTS OF STEEL, REMELTED IN A VACUUM ARC FURNACE 67-11 M04-80206
VACUUM MELTED SPECIAL ALLOYS FOR AEROSPACE APPLICATIONS 67-11 M04-80564
DISTRUBUTION OF NONMETALLIC INCLUSIONS IN AN INGOT OF VACUUM ARC REMELTED BALL BEARING STEEL 67-11 M04-81414
PRODUCING A COMMERCIALLY PURE IRON FROM VACUUM-DESULFURIZED CAST IRON. PT. 2 67-11 M04-81652
EFFECT OF VACUUM ARC MELTING ON THE HYDROGEN PERMEABILITY OF STEELS 67-11 M14-80594
THE INFLUENCE OF REMELTING UNDER VACUUM ON THE PROPERTIES OF HOT WORKED STEELS 67-11 M17-80216
INFLUENCING THE STRENGTH PROPERTIES OF CU-NI-MO STEELS AFTER THERMOMECHANICAL WORKING THROUGH SPECIAL MELTING TECHNIQUES 67-11 M17-80218
INFLUENCE OF VACUUM MELTING AND POURING ON THE STRUCTURE AND PROPERTIES OF NI-HARD CAST IRON 67-11 M17-81532
ELASTIC AND FATIGUE PROPERTIES OF VACUUM REMELTED VERSES AIR-MELTED NI-SPAN-C ALLOY 902 FOR BOURDON TUBES 67-12 M17-83251
TYPES OF REFRACTORY ALLOYS AND THE METHODS BY WHICH THEY ARE PRODUCED 67-12 M20-82393

VACUUM MELTING FURNACES
SEE VACUUM FURNACES

VACUUM METALLIZING
ORGANIC COATINGS FOR STEEL SHEETS--CONTINUOUS PAINTING LINE 67-01 M12-58489
METALLIZED PLASTICS 67-04 M12-66672
LARGE SCALE ELECTRON-BEAM PROCESSES 67-06 M16-72053

VACUUM METALLURGY
SEE ALSO STREAM DEGASSING
VACUUM CASTING
VACUUM MELTING
VACUUM POURING
METHOD FOR THE JOINT PRODUCTION OF CALCIUM AND LEAN FERROSILICON 67-02 M03-58887
METALLURGICAL AND OPERATIONAL CONSIDERATIONS OF MELTING IN THE THERM-I-VAC FURNACE 67-02 M06-60225
MATERIALS OF HIGH VACUUM TECHNOLOGY. V. 1. METALS AND METALLOIDS 67-09 M01-77560
STABILITY OF COMMERCIAL REFRACTORIES IN VACUUM 67-09 M04-77967
MANUFACTURE OF STEEL FOR SAFETY RAZORS 67-10 M04-79854
VACUUMING MOLTEN FERROCHROME 67-10 M04-80083
SOME PROPERTIES OF VACUUM MELTED NICKEL 67-10 M17-79045
USE OF VACUUM IN STEELMAKING --NEW ASPECTS OF VACUUM METALLURGY-- 67-11 M04-81453
NEW STEEL PROCESS COMBINES REFINING AND DEGASSING IN INDUCTION STIRRED FURNACE LADLE 67-12 M04-82883
STUDY OF THE DUCTILITY OF TUNGSTEN IN VACUUM ROLLING 67-12 M07-83331
ON THE DETERMINATION OF OXYGEN, NITROGEN AND HYDROGEN IN HIGH-MELTING POINT METALS. PT. 1. LITERATURE REVIEW 67-12 M19-81823
ON THE DETERMINATION OF OXYGEN, NITROGEN AND HYDROGEN IN HIGH-MELTING POINT METALS. PT. 2. RESEARCH ON OPTIMUM ANALYSIS CONDITIONS FOR OXYGEN DETERMINATION IN MOLYBDENUM, USING THE VACUUM EXTRACTION METHOD 67-12 M19-81824

VACUUM POURING
HALF-TON ALLOY CASTINGS POURED IN VACUUM INVESTMENT FURNACE 67-04 M06-66504
INFLUENCE OF VACUUM POURING ON SOME PHYSICAL AND MECHANICAL PROPERTIES OF STRUCTURAL STEEL 67-05 M17-69009
STEEL DEOXIDIZED BY VACUUM TREATMENT AWAY FROM THE FURNACE 67-06 M04-70355
VACUUM TREATMENT AND INERT GAS TREATMENT OF ELECTROMELTED STEELS IN A LADLE 67-06 M04-71253
AUTOMATIC POURING FURNACE FOR DIECASTING 67-07 M06-72819
TREATMENT OF MOLTEN ELECTRIC STEEL UNDER VACUUM AND WITH INERT GAS OUTSIDE THE FURNACE 67-08 M04-75722
VACUUM STEELMAKING 67-10 M04-79302

VACUUM PUMPS
VACUUM BRAZING AS A PRODUCTION TECHNIQUE FOR VACUUM EQUIPMENT 67-08 M11-75185

VACUUM REFINING
SEE VACUUM METALLURGY

VACUUM TUBES
SEE ALSO KLYSTRONS
TRAVELING WAVE TUBES
ANALYSIS OF THE CONTAMINANTS IN NICKEL OF GRADED PURITY 67-06 M19-70401
FUNDAMENTAL STUDY OF THE APPLICABILITY OF CARBIDES TO THE CONSTRUCTION OF HIGH-POWER TUBES 67-07 M20-73836
HANDBOOK OF MATERIALS AND TECHNIQUES FOR VACUUM DEVICES 67-11 M01-80198

VACUUM TUBES, GETTERING
A NEW GETTER SYSTEM FOR OPAQUE VACUUM TUBES, USING SAMARIUM OR THULIUM 67-06 M20-71493

VACUUM TUBES, MATERIALS
EFFECT OF ALLOYING ELEMENTS ON ELECTRICAL RESISTANCE OF TANTALUM-NIOBIUM ALLOY 67-02 M15-61732

VACUUM TUBES, STRUCTURAL MATERIALS
INFLUENCE OF ALLOYING ELEMENTS ON MECHANICAL PROPERTIES AND RECRYSTALLIZATION POINT OF TA-33 PER CENT CB ALLOY 67-10 M17-79142

VACUUM WELDING
CHARACTERISTICS OF PLASTIC DEFORMATION IN NON-FUSION WELDING 67-04 M11-66461
INDUCTION WELDING OF METALS UNDER VACUUM 67-05 M11-68764
ELECTRON BEAM WELDING UNDER VACUUM AND UNDER ATMOSPHERIC PRESSURE 67-08 M11-75038
LASER WELDING MOVES UP A NOTCH 67-08 M11-76063
COLD WELDING TENDENCIES AND FRICTIONAL STUDIES OF CLEAN METALS IN ULTRA-HIGH VACUUM 67-10 M11-78553

VALENCE
VIEWPOINTS OF STABILITY OF METALLIC STRUCTURES 67-11 M16-81104

VALENCE BAND
STUDY OF THE NONPARABOLICITY OF THE PBTE VALENCE BAND BY MEASUREMENTS OF THE THERMAL EMF IN A

VALENCE BAND
STRONG MAGNETIC FIELD 67-03 M16-65460
BAND STRUCTURE OF THE SEMICONDUCTING LAYER COMPOUNDS 67-04 M16-66742
OPTICAL PROPERTIES AND ELECTRONIC STRUCTURE OF AMORPHOUS GERMANIUM 67-04 M16-66747
GALVANOMAGNETIC EFFECTS AND MAGNETIC SUSCEPTIBILITY OF TIN-DOPED BISMUTH CRYSTALS 67-05 M16-69752
MAGNETORESISTANCE OF UNIAXIALLY STRESSED GERMANIUM IN IMPURITY BAND CONDUCTION REGION 67-05 M16-69754
INTERACTION OF ELEMENTS OF THE PERIODIC TABLE 67-07 M14-72510
EXCITATION SPECTRA OF GROUP 3 IMPURITIES IN GERMANIUM UNDER UNIAXIAL STRESS 67-07 M16-72836
RELAXATION EFFECTS AROUND VACANCIES IN SODIUM METAL 67-07 M16-73631
DIRECT EDGE PIEZOREFLECTANCE IN GE AND GAAS 67-08 M16-75007
ON AN EXCITON STRUCTURE IN THE REFLECTION SPECTRUM OF TRIGONAL SELENIUM SINGLE CRYSTALS 67-08 M16-75250
INVERSION OF CONDUCTION AND VALENCE BANDS IN PBI-XSNXSE ALLOYS 67-09 M16-77170
INTERACTION BETWEEN ELEMENTS IN THE PERIODIC TABLE 67-11 M06-80896
RARE EARTH COBALT COMPOUNDS WITH THE AB3 STRUCTURE 67-12 M13-82967

VALENCE BAND, STRESS EFFECTS
BAND STRUCTURE OF GRAY TIN UNDER UNIAXIAL STRESS 67-08 M16-75004

VALVES
SEE ALSO CONTROL VALVES
ENGINE VALVES
HYDRAULIC VALVES
THE USE OF SPHEROIDAL GRAPHITE CAST IRON IN THE PRODUCTION OF MEDIUM-PRESSURE GATE VALVES 67-04 M17-67067
A NEW STEEL FOR THE EXHAUST VALVES OF INTERNAL COMBUSTION ENGINES 67-04 M17-67696
DESIGN OF HOT BLAST VALVES IWTH SUGGESTED IMPROVEMENTS ON THE PADDLE-TYPE VALVE 67-11 M04-81187

VALVES, CORROSION
NEW VALVE TYPES FOR INDUSTRIAL APPLICATIONS. BALL VALVES 67-02 M20-59829

VALVES, DESIGN
OPENHEARTH SHUTTER DESIGN 67-11 M04-81315

VALVES, EXTRUSION
STAMPING FORGINGS OF AUTOMOBILE VALVES OF EI992 STEEL 67-02 M08-59403

VALVES, FORGING
STAMPING OF VALVES WITH THE HOLLOW FOR A FILLER 67-10 M07-78545
A NEW INTEGRATED FORGING FACILITY IN SCOTLAND 67-11 M07-80674

VALVES, HARD SURFACING
BUILDING UP HYDROPRESS COMPONENTS DAMAGED BY CAVITATION 67-01 M12-57375

VALVES, HEAT TREATMENT
SULFIDIZING OF STEELS TO INCREASE THEIR RESISTANCE TO SCORING 67-08 M10-74980

VALVES, MACHINING
ON THE POSSIBILITY OF IMPROVING THE TECHNOLOGY ON MACHINING SINTERED BUSHINGS 67-02 M09-60186
HIGH-PRODUCTIVITY LINE MACHINES 28,000 VALVES A DAY 67-07 M08-73445
ON THE POSSIBILITY OF IMPROVING THE MACHINING OF CERMET BUSHINGS 67-09 M08-76919

VALVES, MATERIALS
A NEW STEEL FOR BLEEDER VALVES OF INTERNAL COMBUSTION ENGINES 67-02 M17-61877
CAST STAINLESS ON TARGET FOR MOON SHOT 67-04 M15-67073
INCREASING THE LIFE OF COMPRESSOR VALVE PLATES 67-04 M18-66346

VALVES, POWDER METALLURGY
AUTOMATED LINE FOR THE PRODUCTION OF POWDER COMPOSITE BILLETS OF VALVE GUIDE SOCKETS 67-08 M09-75468

VALVES, SURFACE FINISHING
BUILD-UP OF VALVE SEALING SURFACES IN CO2 67-03 M12-65058
CO2-SHIELDED HARDFACING ON THE SEATING SURFACES OF GATE VALVES 67-07 M12-73980

VALVES, THERMAL PROPERTIES
CAST STAINLESS ON TARGET FOR MOON SHOT 67-04 M15-67073

VALVES, WEAR TESTS
USE OF SULFIDIZING PROCESS IN CHEMICAL INDUSTRY 67-01 M17-57605

VANADATES, PHYSICAL PROPERTIES
A NEW PHASE OF NONSTOICHIOMETRIC NATURE IN THE POTASSIUM-OXYGEN-VANADIUM SYSTEM 67-11 M01-81565

VANADIUM
IODIDE-TYPE VANADIUM 67-10 M01-79624

VANADIUM, ADSORPTION
ADSORPTION ON NIOBIUM --110--, TANTALUM --110--, AND VANADIUM --110-- SURFACES 67-08 M14-75336

VANADIUM, ALLOYING ADDITIVE
STUDIES ON THE MANUFACTURING AND MECHANICAL PROPERTIES OF VANADIUM-CONTAINING HIGH-GRADE CAST IRON 67-01 M06-58741
THE INFLUENCE OF VANADIUM ON THE ACTIVITY OF CARBON IN THE FE-C-V SYSTEM AT 1000 C., CORRELATION OF THE INFLUENCE OF SUBSTITUTIONAL SOLUTES ON THE ACTIVITY COEFFICIENT OF CARBON IN IRON-BASE SYSTEMS 67-01 M14-57417
STUDIES OF THE QUALITY, RELAXATION AND WEAR RESISTING PROPERTIES OF VANADIUM HIGH-GRADE CAST IRON 67-01 M17-58742
THE INFLUENCE OF THE ADDITION OF VANADIUM ON THE CHARACTERISTIC OF NEW MAGNET ALLOY MALCOLLOY IN THE SYSTEM OF COBALT AND ALUMINUM 67-02 M15-59743
EFFECT OF THE ADDITION OF VANADIUM ON THE PROPERTIES OF A NEW HIGH MAGNETIC PERMEABILITY ALLOY NIMALLOY IN THE SYSTEM OF NICKEL AND MANGANESE 67-02 M15-60267
THE INFLUENCE OF VANADIUM AND NIOBIUM ON THE MECHANICAL PROPERTIES AND WELDABILITY OF CARBON STEEL. PT. 1. AS ROLLED 67-02 M17-58846
MECHANICAL AND ELECTRON-MICROSCOPE INVESTIGATION OF TEMPERING PROCESSES IN V-CONTAINING AND V-FREE HARDENABLE STRUCTURAL STEELS 67-02 M17-59624
INVESTIGATION OF THE EFFECT OF COMPLEX ALLOYING ON THE PHYSICAL AND MECHANICAL PROPERTIES OF NIOBIUM 67-02 M17-59873
THE EFFECT OF MOLYBDENUM, TUNGSTEN AND VANADIUM ON THE ANNEAL HARDENING OF COLD WORKED 18 CR-12 NI STAINLESS STEEL 67-02 M17-60147
THE ROLE OF VANADIUM IN STEELS--ON THE PROPERTIES AND THE PRECIPITATION BEHAVIOR OF VANADIUM CARBIDES 67-04 M14-67722
INFLUENCE OF A PIG IRON CONTAINING VANADIUM AND TITANIUM ON THE SURFACE HARDENABILITY OF CAST IRON WITH FLAKE-TYPE GRAPHITE 67-04 M17-66183
STUDY OF THE EFFECT OF MICROALLOYING ELEMENTS ON THE INCREASE IN STRENGTH OF STRUCTURAL STEELS USED FOR PRESTRESSED CONCRETE 67-04 M17-67436
EFFECT OF VANADIUM ON THE PHASE COMPOSITION AND STRUCTURE OF HIGH-BORON STEEL 67-05 M13-68452
GRAIN REFINING AND MECHANICAL PROPERTIES OF URANIUM ALLOYS CONTAINING SMALL AMOUNTS OF VANADIUM 67-05 M14-68918
TOUGHNESS OF HIGH-STRENGTH, HOT ROLLED STEELS 67-05 M17-69445
RAIL QUALITY IMPROVED BY MEANS OF VANADIUM 67-06 M17-70100
EFFECTS OF ADDING VANADIUM, NITROGEN AND ALUMINUM TO QUENCHED AND TEMPERED CHROMIUM AND MANGANESE STRUCTURAL STEELS ON THEIR PROPERTIES 67-06 M17-70119
THE PART PLAYED BY VANADIUM IN ZINC-COPPER ALLOYS 67-06 M17-71120
PROBLEMS WITH VANADIUM IN FERROUS METALLURGY 67-06 M17-71122
ADDITIONAL SNOEK PEAK DUE TO CARBON IN FE-V-C ALLOYS 67-06 M17-71549
RESEARCH INTO THE OXIDATION OF NIOBIUM ALLOYED WITH VANADIUM, TITANIUM AND ZIRCONIUM 67-06 M18-70926
THE PRODUCTION OF COLD TOUGH STRUCTURAL STEELS FOR USE AT -65C 67-07 M17-73223
ABSENCE OF GIANT THERMOELECTRIC POWER IN DILUTE AU-V ALLOYS 67-08 M15-75056
ON THE PECULIAR TEMPERATURE VARIATION OF ELECTRICAL RESISTIVITY OF DILUTE AU-V ALLOYS 67-08 M15-75057
AGING BEHAVIOR OF TERNARY IRON-CHROMIUM-VANADIUM ALLOYS AROUND 500 C 67-09 M14-78232
IMPROVEMENT OF LOW-ALLOY HEAT RESISTING STEELS

67-09 M17-77585
HOW STRUCTURAL STEELS ARE STRENGTHENED BY VANADIUM
67-10 M17-78955
ELECTRON-MICROSCOPY STUDIES OF TRANSFORMATIONS IN A TI-V ALLOY
67-12 M13-82975
CONTRIBUTION TO THE STUDY OF U ALLOYS CONTAINING SMALL AMOUNTS OF VANADIUM 67-12 M14-83517
EXPERIMENTAL TEST OF RIGID BAND MODELS FOR CR BY MEANS OF CR-V-MN TERNARY DILUTE ALLOYS
67-12 M16-81760
EFFECT OF VANADIUM ADDITIONS ON THE STRUCTURE AND SUPERCONDUCTING PROPERTIES OF NIOBIUM-ZIRCONIUM ALLOYS
67-12 M16-82419

VANADIUM, ATOMIC PROPERTIES
THE PHONON FREQUENCY DISTRIBUTION OF VANADIUM
67-07 M16-74057
THE V51 --N, GAMMA-- V52 REACTION
67-11 M16-80327

VANADIUM, BAND THEORY
NUCLEAR MAGNETIC RELAXATION IN FERROMAGNETIC TRANSITION METALS 67-02 M16-59478
K-SPECTRA AND ENERGY BAND STRUCTURE OF METALLIC VANADIUM 67-05 M16-68836

VANADIUM, BINARY SYSTEMS
THE VANADIUM-OSMIUM ALLOYS 67-01 M13-57293
THE METAL RICH PARTS OF THE SYSTEMS TA-C, NB-C AND V-C 67-02 M14-60120
PHASE DIAGRAMS OF SYSTEMS OF HYDROGEN WITH TITANIUM, ZIRCONIUM, VANADIUM AND NIOBIUM
67-04 M13-66824
STUDY OF THE VANADIUM-CARBON AND VANADIUM-CHROMIUM-CARBON SYSTEMS 67-04 M14-67199
THE CUO-V2O5 SYSTEM 67-05 M14-68919
THE VANADIUM-CARBON SYSTEM 67-09 M13-76939
THE PHASE DIAGRAM AND PHASE TRANSITION OF THE V2O3-V2O5 SYSTEM 67-11 M13-81688
NEW PHASES IN THE VANADIUM-IRIDIUM SYSTEM AND A TENTATIVE CONSTITUTION DIAGRAM
67-11 M14-80311
PHASE DIAGRAM OF THE VANADIUM-GALLIUM SYSTEM
67-12 M13-83355
A RESISTOMETRIC STUDY OF PHASE EQUILIBRIA AT LOW TEMPERATURES IN THE VANADIUM-HYDROGEN SYSTEM
67-12 M15-82752
ITINERANT ANTIFERROMAGNETISM IN CHROMIUM ALLOYS
67-12 M15-82905

VANADIUM, CHEMICAL ANALYSIS
DETERMINING SMALL VANADIUM CONTENTS IN STEEL AND SEMIFINISHED PRODUCTS USING A PHOTOELECTRIC STYLOMETER 67-06 M19-70334
METHOD FOR DETERMINATION OF VANADIUM IN ALUMINUM AND ALUMINUM ALLOYS 67-06 M19-71443

VANADIUM, CORROSION
CORROSION AND ELECTROCHEMICAL BEHAVIOR OF VANADIUM IN SOLUTIONS OF SULFURIC ACID
67-01 M18-57697

VANADIUM, CRYSTAL GROWTH
GROWTH OF VANADIUM ON SILICON SUBSTRATES
67-02 M14-61766

VANADIUM, CRYSTAL LATTICES
INTERSTITIAL ORDERING IN VANADIUM
67-02 M14-60652
THE CRYSTAL DISTORTION OF VANADIUM
67-04 M13-67482
LATTICE VIBRATIONS OF VANADIUM BY INELASTIC SCATTERING OF SLOW NEUTRONS 67-10 M16-78498
LATTICE DISTORTION OF VANADIUM METAL BY JAHN-TELLER -LIKE ENERGY-SPLITTING 67-11 M13-81475

VANADIUM, DIFFUSION
SELF-DIFFUSION AND ELASTIC CONSTANTS IN THE ANOMALOUS BCC METALS 67-06 M14-70427
DIFFUSION MECHANISM IN BODY-CENTERED CUBIC METALS
67-06 M14-72066
MUTUAL DIFFUSION OF COLUMBIUM WITH SOME REFRACTORY METALS 67-07 M14-74188

VANADIUM, ELECTRICAL PROPERTIES
EMISSIVITY AND ELECTRICAL RESISTIVITY OF TANTALUM AT HIGH TEMPERATURES 67-05 M15-69847
WORK FUNCTION OF METALS 67-06 M16-70492
THERMOELECTRIC PROPERTIES OF VANADIUM
67-10 M15-78343

VANADIUM, EXTRACTION
PROPERTIES AND TECHNOLOGICAL TREATMENT OF VANADIUM TRICHLORIDE FOR PRODUCING A VANADIUM METAL
67-04 M03-67134
RECOVERY OF VANADIUM FROM KACHKANARSK IRON CONVERTER SLAGS 67-06 M02-70950
VANADIUM FOIL FOR NUCLEAR RESEARCH
67-06 M03-70161
METHOD OF OBTAINING VANADIUM 67-06 M03-70938
ION EXTRACTION BY FOAM. SEPARATION OF URANIUM FROM VANADIUM IN CARBONATE MEDIUM 67-06 M03-71017
COMPLEX UTILIZATION OF COPPER-VANADIUM CAKES OBTAINED IN TITANIUM PRODUCTION
67-08 M03-75211

VANADIUM, INTERMETALLICS
ELECTRIC AND MAGNETIC PROPERTIES OF THE SOLID SOLUTION VSI2-CRSI2 AND TISI2-CRSI2
67-02 M15-60183
LATTICE INSTABILITY OF HIGH-TRANSITION-TEMPERATURE SUPERCONDUCTORS. PT. 1. POLYCRYSTALLINE A-15 COMPOUNDS 67-05 M16-69516
NMR STUDY OF TWO ENERGY GAPS IN SUPERCONDUCTING COMPOUNDS 67-05 M16-69767
THE V3SI-V3GA SYSTEM 67-06 M14-71397
NEW VANADIUM COMPOUNDS WITH A CR3SI TYPE STRUCTURE
67-08 M14-74864
THE CRYSTAL STRUCTURES OF CR11GE19, MO13GE23 AND V17GE31 67-09 M13-76451
SUPERCONDUCTING CRITICAL CURRENTS OF V3GA WIRES MADE BY A NEW DIFFUSION PROCESS
67-10 M16-79125
THE ELECTRICAL RESISTIVITY OF AU4V
67-11 M15-80185

VANADIUM, MAGNETIC PROPERTIES
FERROMAGNETISM IN AU4V 67-08 M15-74565
CALCULATION OF THE MAGNETIC PROPERTIES OF SUPERCONDUCTING VANADIUM 67-08 M15-75822
MAGNETIC ANISOTROPY INDUCED BY MAGNETIC-FIELD COOLING THROUGH THE ANOMALY TEMPERATURE IN VANADIUM METAL 67-12 M15-81772

VANADIUM, MECHANICAL PROPERTIES
BRITTLENESS OF VANADIUM IN AN ATMOSPHERE OF HYDROGEN IN ATMOSPHERIC TEMPERATURE
67-02 M17-61022
MECHANICAL PROPERTIES OF VANADIUM-CARBON ALLOYS
67-03 M17-65128
THE INFLUENCE OF ELASTIC ANISOTROPY ON THE PROPAGATION OF FRACTURE 67-06 M17-70645
INVESTIGATIONS OF THE STRESS-RUPTURE AND CREEP BEHAVIOR OF BINARY AND TERNARY VANADIUM ALLOYS
67-07 M17-73403
APPARENT ACTIVATION ENERGIES FOR THE CREEP OF TECHNICAL VANADIUM BETWEEN 500 AND 800 C
67-12 M17-82233

VANADIUM, MICROSTRUCTURE
THE EFFECT OF THE DEGREE OF PURITY ON SOME PROPERTIES OF HIGH-MELTING MATERIALS
67-05 M14-68580
THE FORMATION OF THE ROLLING TEXTURE OF BODY-CENTERED CUBIC METALS AND ALLOYS
67-06 M13-71657

VANADIUM, PHYSICAL PROPERTIES
ELECTRICAL CONDUCTIVITY AND HALL EFFECT IN THIN VANADIUM FILMS 67-12 M15-83272

VANADIUM, QUATERNARY SYSTEMS
A NEW QUATERNARY LIWV2O7.5 PHASE
67-05 M14-68920

VANADIUM, REACTIONS /CHEMICAL/
THE OXIDATION OF VANADIUM IN THE TEMPERATURE RANGE 700 TO 1000 C.--THE NONLINEAR RATE LAW
67-07 M18-73406

VANADIUM, RECOVERING
PRODUCTION OF METALS, IN PARTICULAR, VANADIUM, BY REPROCESSING RED SLUDGE FORMED DURING THE MANUFACTURE OF ALUMINUM 67-09 M03-76810

VANADIUM, REFINING
METHOD FOR PROCESSING VANADIUM CONTAINING NITROGEN
67-02 M03-59551
OBTAINING PURE METALS BY CHEMICAL METHODS
67-04 M03-67843
AN ELECTROLYTIC PROCESS FOR PRODUCING DUCTILE VANADIUM 67-08 M03-76160
ELECTRON-BEAM PURIFICATION OF VANADIUM
67-10 M03-79987

VANADIUM, REMOVAL
MODELING HIGH-CAPACITY OXYGEN CONVERTERS
67-10 M04-79320
HOW THE CHEMICAL COMPOSITION OF AN IRON AFFECTS ITS DE-VANADIZATION 67-10 M04-80043

VANADIUM, SINGLE CRYSTALS
THE PLASTIC DEFORMATION OF SINGLE CRYSTALS OF VANADIUM AT 298 AND 77 K 67-12 M13-82717

VANADIUM, SUPERCONDUCTIVITY
THE GINZBURG-LANDAU PARAMETER --KO-- FOR VANADIUM
67-01 M16-57964
SUPERCONDUCTIVITY AND SOME OF ITS APPLICATIONS
67-04 M16-66131

TEMPERATURE DEPENDENCE OF THE CRITICAL FIELD IN SUPERCONDUCTING VANADIUM 67-05 M16-69775
EFFECTS OF THE DEGREE OF DEFORMATION ON THE SUPERCONDUCTING PROPERTIES OF NIOBIUM AND VANADIUM 67-08 M16-74869

VANADIUM, TERNARY SYSTEMS
PHASE EQUILIBRIA IN THE TI-V-C SYSTEM AT 1450, 1600 AND 1800 C 67-01 M13-57600
ZIRCONIUM-VANADIUM-BORON SYSTEM 67-01 M13-58059
INVESTIGATION OF THE ALLOYS IN THE TI-AL-V SYSTEM 67-02 M13-59840
X-RAY INVESTIGATIONS IN A FEW T-T5-AL SYSTEMS 67-02 M13-61888
STRUCTURE OF SOME ALLOYS OF THE TITANIUM-VANADIUM-CARBON SYSTEM 67-02 M13-62178
EFFECT OF VANADIUM AND MOLYBDENUM ON THE PROPERTIES AND PHASE CONVERSIONS OF THE METALLIDE TICR2 67-02 M13-62181
TI-V-C TERNARY SYSTEM 67-02 M13-62240
ISOTHERMAL SECTION OF THE FE-V-C TERNARY SYSTEM AT 500 C 67-02 M13-62275
NEW PHASES IN THE ZINC-VANADIUM-OXYGEN SYSTEM 67-02 M14-62195
X-RAY INVESTIGATIONS IN THE V-AS-C SYSTEM 67-04 M14-67055
THE CRYSTALLINE STRUCTURE OF V2C 67-04 M16-66912
NUCLEAR MAGNETIC RESONANCE AND SPECIFIC HEAT MEASUREMENTS OF TRANSITION METALS AND ALLOYS.. TI-V-FE AND ZR-NB-MO SYSTEMS 67-05 M16-69758
TITANIUM-CHROMIUM-VANADIUM SYSTEM 67-06 M14-71079
OPTICAL ABSORPTION OF ALUMINIUM AND SOME ALUMINIUM-MAGNESIUM ALLOYS 67-06 M16-70572
LOW TEMPERATURE SPECIFIC HEAT OF BCC ALLOYS OF 3D TRANSITION ELEMENTS WITH 20 PER CENT AL 67-07 M15-73630
THE W-V-SI SYSTEM 67-08 M13-75436
STRUCTURE OF SOME ALLOYS OF THE SYSTEM TITANIUM-VANADIUM-CARBON 67-08 M13-75954
EFFECT OF VANADIUM AND MOLYBDENUM ON THE PROPERTIES AND PHASE TRANSFORMATIONS OF THE INTERMETALLIC COMPOUND TICR2 67-08 M13-75957
INTERACTION BETWEEN THE METALLIDE TICR2 AND VANADIUM 67-09 M13-76942
COBALT, NICKEL AND COPPER PHASES IN TERNARY MNCU2AL SOLUTION 67-09 M13-77572
THE TERNARY SYSTEM NI-V-B 67-10 M13-79072
THE PHASE EQUILIBRIA IN THE TERNARY SYSTEMS ZIRCONIUM-VANADIUM-BORON, ZIRCONIUM-NIOBIUM-BORON AND ZIRCONIUM-MANGANESE-BORON 67-10 M13-79346
CEMENTED CARBIDES WITH HIGH-MELTING BINDERS. PT. 2. TERNARY EQUILIBRIUM SYSTEMS 67-10 M14-79979
A NEW PHASE OF NONSTOICHIOMETRIC NATURE IN THE POTASSIUM-OXYGEN-VANADIUM SYSTEM 67-11 M01-81565
INFLUENCE OF NIOBIUM ON THE SOLID STATE TRANSFORMATIONS IN VANADIUM-TANTALUM ALLOYS 67-12 M13-82424

VANADIUM, THERMODYNAMICS
ON THE ENTROPY OF HYSTERETIC SUPERCONDUCTING STATES 67-06 M16-70466

VANADIUM, X RAY ANALYSIS
COMPARISON OF ABSORPTION COEFFICIENTS OBTAINED BY DIFFERENT METHODS IN THE ULTRASOFT X-RAY REGION OF THE SPECTRUM 67-10 M16-79456

VANADIUM, X RAY DIFFRACTION
IMPROVED METHOD OF MEASURING ABSOLUTE INTENSITIES OF X-RAY REFLECTIONS 67-01 M19-57661

VANADIUM BASE ALLOYS, CLAD METALS
COMPATIBILITY OF U-PU-FZ FUEL ALLOYS WITH POTENTIAL CLADDING MATERIALS 67-01 M14-58585

VANADIUM BASE ALLOYS, COATING
THE ANODIC OXIDATION OF ALLOYS 67-05 M18-68619

VANADIUM BASE ALLOYS, CRYSTAL LATTICES
EXPERIMENTAL STUDY OF THE LATTICE DYNAMICS OF DISORDERED VANADIUM ALLOYS 67-03 M13-65028

VANADIUM BASE ALLOYS, ELECTRICAL PROPERTIES
ABSOLUTE THERMOELECTRIC POWER OF VANADIUM-IRON ALLOYS BETWEEN 100 K. AND 600 K 67-12 M15-82292

VANADIUM BASE ALLOYS, MAGNETIC PROPERTIES
EFFECT OF IMPURITY CENTERS ON THE MAGNETIC SUSCEPTIBILITY OF A METAL 67-02 M15-61176
MAGNETIC PROPERTIES OF V-TA ALLOYS 67-02 M15-61679
MAGNETIC PROPERTIES ON SIGMA-PHASE OF FE-V ALLOYS 67-07 M15-73993
NUCLEAR MAGNETIC RESONANCE AND MAGSUSCEPTIBILITIES OF V-NB ALLOYS 67-08 M16-74662

VANADIUM BASE ALLOYS, MECHANICAL PROPERTIES
MECHANICAL PROPERTIES OF VANADIUM-CARBON ALLOYS 67-03 M17-65128
THE APPEARANCE OF A CHARACTERISTIC YIELD POINT IN VANADIUM ALLOYS 67-03 M17-65129
NEW VANADIUM-COLUMBIUM ALLOYS RESIST HIGH AND LOW TEMPERATURES 67-03 M17-65211
PROPERTIES OF VANADIUM-BASE TUNGSTEN AND CHROMIUM ALLOYS 67-06 M17-71406
INVESTIGATIONS OF THE STRESS-RUPTURE AND CREEP BEHAVIOR OF BINARY AND TERNARY VANADIUM ALLOYS 67-07 M17-73403

VANADIUM BASE ALLOYS, PHASES /STATE OF MATTER/
CARBIDES IN THE FE-V-C TERNARY SYSTEM 67-01 M13-57187

VANADIUM BASE ALLOYS, PHYSICAL PROPERTIES
THE HALL EFFECT IN CHROMIUM-VANADIUM ALLOYS AT ROOM AND LIQUID N2 TEMPERATURES IN FIELDS UP TO 100 KOE 67-12 M15-82293

VANADIUM BASE ALLOYS, REACTIONS /CHEMICAL/
THE CARBIDOTHERMIC PREPARATION OF METALLIC VANADIUM AND VANADIUM ALLOYS 67-05 M14-68584

VANADIUM BASE ALLOYS, SUPERCONDUCTIVITY
MEASUREMENT OF CRITICAL FIELD HC3 AND CRITICAL SURFACE CURRENT IN SUPERCONDUCTING V-TI ALLOYS UP TO 30 KOE 67-01 M16-57959

VANADIUM BASE ALLOYS, THERMODYNAMICS
SPECIFIC HEAT OF IRON-VANADIUM ALLOYS BETWEEN 125 AND 625 K 67-05 M15-68284

VANADIUM CHROMIUM STEELS
SEE CHROMIUM VANADIUM STEELS

VANADIUM COMPOUNDS, ATOMIC PROPERTIES
N. M. R. INVESTIGATION OF THE ATOMIC AND ELECTRONIC STRUCTURE OF VANADIUM AND NIOBIUM CARBIDES 67-10 M16-79117

VANADIUM COMPOUNDS, ATOMIC STRUCTURE
THE ELECTRON STRUCTURE OF THE METAL-LIKE HYDRIDES.. VANADIUM HYDRIDE 67-07 M16-73281

VANADIUM COMPOUNDS, BENEFICIATION
ANALYTICAL PROCEDURES FOR A VANADIUM RECOVERY PROCESS 67-03 M19-65122
ON REDUCING VANADIUM FROM ALKALINE SOLUTIONS BY CEMENTATION 67-09 M02-76993

VANADIUM COMPOUNDS, BINARY SYSTEMS
THE REACTION OF VANADIUM, NIOBIUM, AND TANTALUM DIBORIDES WITH CARBON 67-02 M09-61791
PREPARATION OF OXIDE SINGLE CRYSTALS BY FLAME FUSION METHOD 67-04 M14-67579
THE BINARY EUTECTICS GASB-GAV3SB5 AND GASB-V2GA5 67-05 M13-68277

VANADIUM COMPOUNDS, CRYSTAL GROWTH
GA-RICH V-GA COMPOUNDS 67-04 M14-67253
REACTIVELY SPUTTERED VANADIUM DIOXIDE THIN FILMS 67-06 M14-72199
EPITAXIAL GROWTH OF VO2 SINGLE CRYSTALS AND THEIR ANISOTROPIC PROPERTIES IN ELECTRICAL RESISTIVITIES 67-07 M14-73996

VANADIUM COMPOUNDS, CRYSTAL LATTICES
PREPARATION AND STRUCTURAL DATA OF --TI1-XVX--O2 67-05 M13-69297
LOWER-TEMPERATURE MODIFICATIONS OF NB2C AND V2C 67-09 M13-76400
PHASE STABILITY AND CRYSTAL CHEMISTRY OF COMPLEX COMPOUNDS CONTAINING TRANSITION ELEMENTS AND NONMETALS 67-11 M13-81117
A NEW VANADIUM SILICIDE OF FORMULA, V6SI5 67-11 M13-81566

VANADIUM COMPOUNDS, DIFFUSION
DIFFUSION OF CARBON IN VANADIUM CARBIDES AND TITANIUM CARBIDES 67-08 M14-74314

VANADIUM COMPOUNDS, ELECTRICAL PROPERTIES
THE TEMPERATURE DEPENDENCE OF THE THERMO-EMF AND OF THE ELECTRICAL RESISTIVITY OF TITANIUM, VANADIUM, CHROMIUM AND THEIR BORIDES, CARBIDES AND NITRIDES 67-01 M15-58348
THE PHASE TRANSITION IN VO2 67-07 M16-72408
SEMICONDUCTOR-TO-METAL TRANSITION IN V2O3 67-07 M16-73946
ELECTRICAL AND MAGNETIC PROPERTIES OF SOLID SOLUTIONS OF VANADIUM AND TITANIUM DISILICIDES IN CHROMIUM DISILICIDE 67-09 M15-76916

VANADIUM COMPOUNDS, EXTRACTION
PRECIPITATION OF V2O5 FROM INDUSTRIAL SULFURIC ACID SOLUTIONS 67-02 M03-59196
STUDY OF VANADIUM DISTRIBUTION DURING TREATMENT OF HIGH-SILICON BAUXITES BY THE BAYER-HYDROCHEMISTRY

METHOD 67-10 M03-80056
THE INFLUENCE OF LIME ON THE AMOUNT OF WATER-SOLUBLE VANADIUM PENTOXIDE IN ALLOYS OF THE SYSTEM CAO-V2O5-NA2O 67-11 M03-81510
VANADIUM COMPOUNDS, INCLUSIONS
ON THE SOLUBILITY OF THE NITRIDES OF CHROMIUM, VANADIUM AND ALUMINUM IN AUSTENITE 67-04 M14-67391
VANADIUM COMPOUNDS, MAGNETIC PROPERTIES
MAGNETIC RESONANCE EXPERIMENTS ON VO2 67-04 M16-66790
MOSSBAUER EFFECT STUDY OF V2O3 67-04 M16-67476
VANADIUM COMPOUNDS, OPTICAL PROPERTIES
OPTICAL ABSORPTION NEAR THE ABSORPTION EDGE IN V2O5 SINGLE CRYSTALS 67-07 M15-72963
VANADIUM COMPOUNDS, PHASE TRANSFORMATIONS
TRANSMISSION ELECTRON MICROSCOPY OF VANADIUM-SILICON --V3SI-- AT LOW TEMPERATURES 67-07 M13-73624
VANADIUM COMPOUNDS, PHASES /STATE OF MATTER/
ON THE VANADIUM-OXYGEN SYSTEM.. CONFIRMATION OF THE VO2.33 --V3O7-- PHASE BY MAGNETOCHEMISTRY 67-05 M14-68911
SOLID HYDRIDES 67-11 M16-80469
CRYSTALLOGRAPHIC STUDY OF THE VO2.33--V3O7-- PHASE 67-12 M13-83154
VANADIUM COMPOUNDS, PHYSICAL PROPERTIES
ELECTRIC AND MAGNETIC PROPERTIES OF VO 67-04 M15-67486
VANADIUM COMPOUNDS, POWDER METALLURGY
PERMEABILITY TECHNIQUES FOR CHARACTERIZING FINE POWDERS 67-06 M09-71798
VANADIUM COMPOUNDS, PRECIPITATION
COMMENTS ON AN INVESTIGATION OF SECONDARY HARDENING OF A 1 PER CENT VANADIUM-0.2 PER CENT CARBON STEEL 67-06 M14-72238
VANADIUM COMPOUNDS, REACTIONS /CHEMICAL/
PRODUCING VANADIUM TETRACHLORIDE FROM VANADIUM OXYTRICHLORIDE 67-02 M03-60544
INVESTIGATION OF INITIAL STAGES OF INTERACTION OF OXIDES OF CERTAIN METALS WITH CARBON 67-02 M14-60543
PROCESSING OF V3GA WIRES AND THEIR SUPERCONDUCTING PROPERTIES 67-02 M16-60517
CHLORINATING IRON-VANADIUM SPINEL IN SOLID PHASE 67-05 M02-68965
VANADIUM FOIL FOR NUCLEAR RESEARCH 67-06 M03-70161
POSSIBILITIES OF THE PRODUCTION OF OXYGEN-POOR, FOREIGN METAL-POOR VANADIUM CHLORIDE 67-12 M03-82141
VANADIUM COMPOUNDS, REDUCTION /CHEMICAL/
REDUCING VANADIUM PENTOXIDE BY ALUMINUM 67-06 M03-69997
METHOD OF OBTAINING VANADIUM 67-06 M03-70938
VANADIUM COMPOUNDS, REFINING
SEPARATION OF VANADIUM OXYCHLORIDE FROM TITANIUM TETRACHLORIDE AND OTHER IMPURITIES BY DISTILLATION 67-12 M02-82111
VANADIUM COMPOUNDS, SEMICONDUCTORS
TEMPERATURE DEPENDENCE OF ELECTRICAL RESISTIVITY OF VO2 POWDER 67-03 M16-65654
EFFECT OF ADDITIVES ON THE SEMICONDUCTOR PROPERTIES AND BEGINNING OF INTERACTION OF V2O5 WITH CARBON 67-06 M15-70264
VANADIUM COMPOUNDS, SOLUBILITY
STRUCTURAL CHARACTERISTICS OF SOLID SOLUTIONS CRSI2-VSI2 AND CRSI2-TISI2 67-04 M13-66264
STRUCTURAL CHARACTERISTICS OF SOLID SOLUTIONS OF CHROMIUM DISILICIDE WITH VANADIUM AND TITANIUM DISILICIDES 67-10 M13-78996
ON THE SOLUBILITY OF VANADIUM PENTOXIDE IN ALUMINATE SOLUTIONS 67-10 M14-80059
VANADIUM COMPOUNDS, SUPERCONDUCTIVITY
PROCESSING OF V3GA SUPERCONDUCTING WIRES 67-04 M16-67576
PARAMAGNETIC SUSCEPTIBILITY IN THE V3SI TYPE OF COMPOUNDS IN THE NORMAL STATE 67-11 M16-81390
V51 KNIGHT SHIFT IN THE V3SI TYPE OF COMPOUNDS IN THE NORMAL STATE 67-11 M16-81391
VANADIUM COMPOUNDS, SUPERCONDUCTORS
ENERGY GAP OF V3SI 67-02 M16-60532
LATTICE INSTABILITY OF HIGH-TRANSITION-TEMPERATURE SUPERCONDUCTORS. PT. 2. SINGLE-CRYSTAL V3SI RESULTS 67-05 M16-69517
VANADIUM COMPOUNDS, THERMODYNAMICS
THERMODYNAMIC CALCULATION OF EQUILIBRIA IN THE SYSTEM CARBIDE-OXYGEN 67-08 M15-74310
VANADIUM COMPOUNDS, TRANSPORT PROPERTIES
HALL EFFECTS OF VANADIUM DIOXIDE POWDER 67-03 M16-65644
THERMOELECTRIC POWER OF VANADIUM DIOXIDE WHISKERS 67-03 M16-65645
SEMICONDUCTOR-TO METAL TRANSITIONS IN TRANSITION-METAL COMPOUNDS 67-07 M16-73947
HIGH FREQUENCY CONDUCTIVITY OF VO2 67-07 M16-73994
VANADIUM STEELS
SEE ALSO CHROMIUM VANADIUM STEELS
VANADIUM STEELS, CASTING
HEATING THE FEEDER HEADS OF ALLOY STEEL INGOTS BY EXOTHERMIC SLEEVES 67-05 M04-69683
EXOTHERMIC SLEEVES FOR CONSERVING HEAT IN THE FEEDER HEADS OF ALLOY STEEL INGOTS 67-07 M04-74069
VANADIUM STEEL FOR CASTINGS 67-12 M06-83017
VANADIUM STEELS, CHEMICAL ANALYSIS
DETERMINING SMALL VANADIUM CONTENTS IN STEEL AND SEMIFINISHED PRODUCTS USING A PHOTOELECTRIC STYLOMETER 67-06 M19-70334
VANADIUM STEELS, COATING
NEW VANADIUM-CONTAINING OR COLUMBIUM-CONTAINING LOW-ALLOY STEELS FOR ENAMELLING 67-04 M12-66458
NEW LOW-ALLOY ENAMELING STEELS WITH VANADIUM OR NIOBIUM 67-11 M12-80999
VANADIUM STEELS, HEAT TREATMENT
THE ROLE OF VANADIUM IN STEELS--ON THE PROPERTIES AND THE PRECIPITATION BEHAVIOR OF VANADIUM CARBIDES 67-04 M14-67722
THE REASONS WHY SMALL AMOUNTS OF VANADIUM STRENGTHEN RAIL STEEL 67-06 M14-70099
VANADIUM STEELS, MACHINING
TRACER TURNS THINWALL PARTS 67-01 M08-57231
COPY-MACHINING OPERATIONS ON A COMPLEX THIN-WALLED COMPONENT 67-04 M08-68052
VANADIUM STEELS, MECHANICAL PROPERTIES
STRENGTHENING LOW-ALLOY STEEL WITH VANADIUM NITRIDES 67-04 M17-67929
EFFECTS OF ADDING VANADIUM, NITROGEN AND ALUMINUM TO QUENCHED AND TEMPERED CHROMIUM AND MANGANESE STRUCTURAL STEELS ON THEIR PROPERTIES 67-06 M17-70119
PROBLEMS WITH VANADIUM IN FERROUS METALLURGY 67-06 M17-71122
HIGH-TENSILE STEELS CONTAINING VANADIUM FOR ENGINEERING STRUCTURES 67-06 M17-71123
THE EFFECTS OF ADDING VANADIUM TO RAIL STEEL AND AGING IT NATURALLY ON ITS PROPERTIES 67-06 M17-71376
VANADIUM STEELS, PHASE TRANSFORMATIONS
INVESTIGATION OF CARBIDE FORMING DURING PEARLITIC DECOMPOSITION OF AUSTENITIC VANADIUM STEEL 67-06 M14-72364
VANADIUM STEELS, PHASES /STATE OF MATTER/
EFFECT OF MOLYBDENUM ON PHASE COMPOSITION AND MICROSTRUCTURE OF CHROMIUM-NICKEL STEELS 67-03 M13-65965
VANE PUMPS
PRODUCTION OF SPEED RING CASTINGS 67-08 M06-76198
VANES
SEE GUIDE VANES
VAPOR DEGREASING
TRICLENE PHOSPHATIZING PREPARES METAL PARTS FOR IMPROVED FINISHING 67-07 M12-72934
VAPOR DEPOSITED COATINGS
SEE ALSO VACUUM DEPOSITED COATINGS
DEPOSITION OF SILICA FILMS BY THE GLOW DISCHARGE TECHNIQUE 67-02 M12-61769
THE ELECTRODE POTENTIAL OF EVAPORATED ALUMINUM FILMS IN CHLORIDE SOLUTION 67-02 M14-61774
EXPERIMENTAL RESULTS ON VAPOR DEPOSITION OF ALUMINUM OXIDE ON STEEL 67-09 M12-78027
A SURVEY OF THIN-FILM VACUUM DEPOSITION TECHNIQUES 67-11 M12-80362
EFFECT OF ULTRASONIC VIBRATIONS OF THE SUBSTRATE ON THE GROWTH OF THIN METAL FILMS 67-12 M14-83015
INFLUENCE OF RESIDUAL GAS AND VAPORIZED BASE METAL ON THE PROPERTIES OF PERMALLOY EVAPORATED COATINGS 67-12 M15-82230
VAPOR DEPOSITED COATINGS, ATOMIC STRUCTURE
LOCAL ORDER IN SOLID ALLOYS. PT. 1 67-08 M13-75338
VAPOR DEPOSITED COATINGS, CORROSION
OXIDATION CHARACTERISTICS OF VAPOR-PLATED

TUNGSTEN 67-01 M18-58514

VAPOR DEPOSITED COATINGS, CRYSTAL GROWTH
INTERRUPTED VAPOUR DEPOSITION OF EPITAXIAL GOLD FILMS GROWN INSIDE AN ELECTRON MICROSCOPE 67-01 M14-57565
THE KINETICS OF EPITAXIAL SILICON DEPOSITION BY THE HYDROGEN REDUCTION OF CHLOROSILANES 67-03 M14-65695
DEFECT FORMATION IN EPITAXIAL FILMS ON NATIVE AND FOREIGN SUBSTRATES 67-04 M13-67741
EPITAXIAL GROWTH OF UO2 ON GRAPHITE 67-04 M14-67461
PREPARATION AND PROPERTIES OF EPITAXIAL GALLIUM PHOSPHIDE 67-05 M14-68628
A THEORY OF ORIENTATION EFFECTS IN NUCLEATION ON A CRYSTALLINE SUBSTRATE 67-06 M14-70897
PREPARATION AND CHARACTERISTICS OF GALLIUM ARSENIDE 67-07 M16-72916
MECHANISMS OF THE FORMATION OF EPITAXIAL STRUCTURES IN COPPER CONDENSATES 67-09 M13-77778
GROWTH AND STRUCTURE OF SILVER FILMS EVAPORATED ON --111-- SI SURFACE 67-09 M14-76483

VAPOR DEPOSITED COATINGS, CRYSTAL LATTICES
RECOVERY PROCESSES IN NICKEL THIN FILMS BETWEEN 20 AND 300 C 67-01 M15-57579
ELECTRON DIFFRACTION AT LOW TEMPERATURE 4. AMORPHOUS FILMS OF IRON AND CHROMIUM PREPARED BY LOW TEMPERATURE CONDENSATION 67-03 M13-65157
CRYSTALLOGRAPHY OF SIP AND SIAS SINGLE CRYSTALS AND OF SIP PRECIPITATES IN SI 67-03 M13-65872

VAPOR DEPOSITED COATINGS, CRYSTAL STRUCTURE
SUBSTRUCTURE OF COPPER VACUUM CONDENSATES AFTER AGING AND ANNEALING 67-09 M13-77772

VAPOR DEPOSITED COATINGS, DIFFUSION
CU DIFFUSION IN ELECTRODEPOSITED PERMALLOY FILMS 67-07 M14-73591

VAPOR DEPOSITED COATINGS, ELECTRICAL PROPERTIES
RESISTIVITY AND TUNNELLING PROPERTIES OF PARAMAGNETIC ALLOY FILMS 67-03 M15-65108
ENHANCEMENT OF SUPERCONDUCTING CRITICAL CURRENT DENSITY IN NB3SN DIFFUSION LAYERS PRODUCED BY IRRADIATION WITH PROTONS 67-03 M16-65110
CONDUCTANCE INCREASE IN N-PBTE FILMS VIA ION BOMBARDMENT 67-04 M16-66176
RESISTIVITY INHOMOGENEITIES IN SILICON CRYSTALS 67-06 M15-70663

VAPOR DEPOSITED COATINGS, MAGNETIC PROPERTIES
TEMPERATURE DEPENDENCE OF OBLIQUE-INCIDENCE ANISOTROPY IN PERMALLOY FILMS 67-02 M15-61510
NEGATIVE OBLIQUE-INCIDENCE ANISOTROPY IN MAGNETOSTRICTION-FREE PERMALLOY FILMS 67-02 M15-61517
ON THE ORIGIN OF M-INDUCED ANISOTROPY IN NICKEL AND PERMALLOY FILMS 67-02 M15-61519
A HIGH-RESOLUTION METHOD OF INVESTIGATING THE MAGNETIC STRUCTURE OF SUPERCONDUCTORS 67-03 M15-65225
MAGNETOSTRICTION AND COMPOSITIONAL GRADIENTS IN BOAT-EVAPORATED PERMALLOY FILMS 67-09 M15-77431

VAPOR DEPOSITED COATINGS, MECHANICAL PROPERTIES
THE RELATION BETWEEN THE STRENGTH AND THE CONDITIONS OF PREPARING CU AND AL VACUUM CONDENSATES 67-02 M17-59556

VAPOR DEPOSITED COATINGS, OPTICAL PROPERTIES
OPTICAL PROPERTIES OF EVAPORATED FILMS OF CHROMIUM AND COPPER 67-02 M15-60688
THE OPTICAL CONSTANTS OF ALUMINIUM FROM 12 TO 36 EV 67-06 M15-70695
ANISOTROPY IN LATTICE VIBRATIONS OF ZINC OXIDE 67-09 M15-77458

VAPOR DEPOSITED COATINGS, PHASE TRANSFORMATIONS
PHASE AND ORDER TRANSITIONS DURING AND AFTER FILM DEPOSITION 67-01 M14-57121
FEATURES OF THE PHASE FORMATION IN COATINGS CONDENSED ONTO A HOT BASE 67-02 M12-61165

VAPOR DEPOSITED COATINGS, PHYSICAL PROPERTIES
SOME CHARACTERISTICS OF GAAS-GE EPITAXY 67-02 M16-61083
IMPURITY EFFECTS ON HETEROGENEOUS NUCLEATION FROM THE VAPOR.. SELENIUM ON GLASS 67-06 M14-70974

VAPOR DEPOSITED COATINGS, REACTIONS /CHEMICAL/
A KINETIC STUDY OF THE HETEROGENEOUS REACTIONS OF METALLIC SODIUM WITH CHLORINE AND BROMINE 67-05 M14-68616

VAPOR DEPOSITED COATINGS, SUPERCONDUCTIVITY
TRANSITION TEMPERATURE AND COMPOSITION OF THE SUPERCONDUCTING NB3SN-PHASE 67-05 M16-69092

VAPOR DEPOSITED COATINGS, SURFACE PROPERTIES
SORPTION OF INERT GAS IONS BY TITANIUM 67-08 M14-75045

VAPOR DEPOSITED COATINGS, THERMAL PROPERTIES
THERMAL RELAXATION OF INDIUM FILMS ON INSULATING SUBSTRATES BETWEEN 4 AND 300 K 67-01 M15-57114
EMISSIVITY OF MOLYBDENUM DISILICIDE COATINGS 67-06 M15-72039

VAPOR DEPOSITED COATINGS, TRANSPORT PROPERTIES
PROPERTIES OF MERCURY TELLURIDE THIN FILMS 67-03 M16-65735
THE EFFECT OF WATER PRESSURE ON THE EXCESS DONOR CONCENTRATION IN GAP GROWN FROM THE VAPOR PHASE IN SILICA TUBES 67-06 M16-71143
EFFECT OF STRESS ON THE HALL COEFFICIENT OF CHROMIUM FILMS 67-09 M16-77428

VAPOR DEPOSITION
SEE ALSO VACUUM DEPOSITION
VACUUM METALLIZING
VAPOR DEPOSITION COATING
NEW DEVELOPMENTS IN SURFACE TREATMENT IN THE AEROSPACE INDUSTRY 67-01 M12-58302
EPITAXIAL DEPOSITION OF GERMANIUM BY BOTH SPUTTERING AND EVAPORATION 67-01 M14-57106
BORON FILAMENT GRADUATES TO PRODUCTION 67-01 M14-57224
CRYSTALLIZATION OF INDIUM PHOSPHIDE FROM THE GASEOUS PHASE 67-01 M14-57655
THE MECHANISM OF CHEMICAL DEPOSITION OF THIN LEAD SELENIDE FILMS 67-01 M14-57656
VAPOR GROWTH OF SIO2 AND TIO2 FILMS 67-01 M15-58313
KINETICS OF DEPOSITION OF THIN LEAD SELENIDE FILMS 67-01 M16-57657
PRELIMINARY EXPERIMENTS ON FABRICATING MOS TRANSITORS AND MOS INTEGRATED CIRCUITS 67-01 M16-58315
PREPARATION AND STUDY OF THE PROPERTIES OF HARD ALLOYS FROM THE PSEUDODBINARY SECTION SIC-BC BY GROWING FROM THE GASEOUS PHASE 67-02 M13-60576
ON THE EPITAXIAL PRECIPITATION OF ZINC SULFIDE AND LEAD SULFIDE ON ZINC SULFIDE BY A CHEMICAL TRANSPORT REACTION AND BY SUBLIMATION 67-02 M14-60114
PYROLYTIC MATERIALS 67-02 M14-60711
PREPARATION AND PROPERTIES OF VACUUM DEPOSITED CDS AND CDSE FILMS 67-02 M16-61121
VAPOR PHASE GROWTH OF GALLIUM ARSENIDE MICROWAVE DIODES 67-02 M16-61501
THE DEPOSITION OF THIN FILMS OF ENRICHED URANIUM DIOXIDE 67-03 M12-65016
GROWTH MECHANISM OF VAPOR DEPOSITED GERMANIUM FILMS 67-03 M14-65429
THE KINETICS OF EPITAXIAL SILICON DEPOSITION BY THE HYDROGEN REDUCTION OF CHLOROSILANES 67-03 M14-65695
PYROLYTIC DEPOSITS OF SILICON CARBIDE 67-04 M05-66128
METHOD OF MEASURING RATE OF PURE METALS DEPOSITION FROM THE GAS PHASE 67-04 M12-67532
NUCLEATION IN SURFACE CATALYZED CHEMICAL VAPOR DEPOSITION --CVD-- 67-04 M12-67744
CONTACT DIFFUSION INTERACTION BETWEEN MATERIALS AND CLADDINGS 67-04 M12-67863
VAPOR PHASE FORMING 67-04 M12-68155
A MICRORELIEF OF THE SURFACE OF BE CONDENSATES 67-04 M13-67928
GROWING OF CDTE SINGLE CRYSTALS BY STATIC SUBLIMATION UNDER PRESSURE OF ONE COMPONENT 67-04 M14-66038
PREPARATION OF INAS AND GAAS SINGLE CRYSTALS 67-04 M14-67441
CHARACTERISTICS OF SILICON CARBIDE PRODUCED BY THERMAL DECOMPOSITION OF TRIMETHYLCHLOROSILANE 67-05 M05-69570
CHEMICAL VAPOR DEPOSITION OF MO ONTO SI 67-05 M12-68630
USE OF SIMULTANEOUS VAPORIZING OF TWO SUBSTANCES TO OBTAIN THIN FILMS 67-05 M12-68655
SILICON-ON-SAPPHIRE APPROACH AFFORDS FREEDOM AND FLEXIBILITY 67-05 M12-68700
A UNIQUE DOUBLE DEPOSITION SYSTEM 67-05 M12-68906
SCANNING ELECTRON DIFFRACTION OBSERVATIONS ON DIFFUSE INNER RINGS FROM VERY THIN VAPOR-DEPOSITED FILMS 67-05 M13-69209

THORIA SINGLE CRYSTALS GROWN BY VAPOR DEPOSITION IN A SOLAR FURNACE 67-05 M14-68286
NUCLEATION OF SOLIDS FROM THE VAPOUR PHASE 67-05 M14-69720
RHENIUM AND RHENIUM-TUNGSTEN DEPOSITION BY THERMOCHEMICAL REDUCTION OF THE HEXAFLUORIDES-A PRELIMINARY STUDY 67-06 M12-70600
A NITRIC OXIDE PROCESS FOR THE DEPOSITION OF SILICA FILMS 67-06 M12-70665
ELECTRON BEAM FORMATION OF 800 A. WIDE ALUMINIUM LINES 67-06 M12-71014
THE DEPOSITION OF THIN SIO2 LAYERS THROUGH THE HYDROLYSIS OF SILICON TETRACHLORIDE 67-06 M12-71196
APPARATUS FOR METALLIZING AND ELECTRON BEAM EVAPORATION 67-06 M12-72313
COMPOSITION AND STRUCTURE OF NICKEL LAYERS, CONDENSED ONTO NIOBIUM 67-06 M12-72379
USE OF THE METHOD OF SHORT-RANGE TRANSPORT FOR THE PREPARATION OF EPITAXIAL LAYERS OF SEMICONDUCTOR MATERIALS 67-06 M14-70216
SOME INTERESTING GROWTH PATTERNS ON VAPOUR-GROWTH CADMIUM SINGLE CRYSTALS 67-06 M14-71201
THE GROWTH AND ETCHING OF SI THROUGH WINDOWS IN SIO2 67-06 M14-72173
INFLUENCE OF CONDENSATION RATE ON ELECTRICAL PROPERTIES OF SILICIDE THIN FILMS 67-06 M15-71474
AN INVESTIGATION OF THE HETEROGENEOUS P-N JUNCTION BETWEEN SELENIUM AND VARIOUS SELENIDES 67-06 M16-71195
MODIFIED SILICON-CARBIDE CONTINUOUS FILAMENTS 67-07 M09-73352
FILAMENT-REINFORCED REFRACTORY METALS 67-07 M09-73360
ADVANCED METAL COMPOSITES--A STATUS REPORT 67-07 M09-73720
GALLIUM ARSENIDE EPITAXIAL TECHNOLOGY 67-07 M14-72915
CHEMICAL VAPOR GROWTH OF SINGLE-CRYSTAL MAGNETIC OXIDE FILMS 67-07 M14-73523
DOMAIN WALL CREEPING IN UNIPOLAR NANOSECOND PULSE FIELDS 67-07 M15-73808
INVESTIGATION OF PHASE COMPOSITION OF COBALT POWDERS CONDENSED IN AN INERT GAS MEDIUM 67-08 M09-75422
ANALYSES OF GASES EVOLVED DURING EVAPORATION 67-08 M12-75177
PROGRESS IN THE PRODUCTION OF THIN OXIDE FILMS FOR OPTICAL AND ELECTRICAL APPLICATIONS 67-08 M12-75178
SUPERCONDUCTING HOMOGENEOUS INTI AND PBBI FILMS EVAPORATED FROM A SINGLE SOURCE 67-08 M12-76152
VAPOR-PHASE DEPOSITION OF REFRACTORY METALS BY THERMAL DECOMPOSITION OF REDUCTION OF ONE OF THEIR HALIDES 67-08 M12-76214
THE PREPARATION OF CRYSTALLINE ALUMINUM BORIDES BY A VAPOR DEPOSITION PROCESS 67-08 M14-75296
EFFECT OF SUBSTRATE TEMPERATURE ON THE ELECTROCONDUCTIVITY OF FILMS, PRODUCED BY VACUUM DEPOSITION OF TANTALUM 67-08 M15-74626
INVESTIGATION OF THE CONDITIONS OF CONDENSATION FOR POTASSIUM VAPORS AND ACCOMPANYING KCL VAPORS IN THE PRODUCTION OF POTASSIUM USING THE VACUUM-THERMAL METHOD 67-09 M03-77057
VAPOR DEPOSITION OF TUNGSTEN BY HYDROGEN REDUCTION OF TUNGSTEN HEXAFLUORIDE--PROCESS VARIABLES AND PROPERTIES OF THE DEPOSIT 67-09 M12-76625
UNIFORM SILICON COATINGS ON GRAPHITE BY CHEMICAL VAPOR DEPOSITION 67-09 M12-77141
REVEALING OF HARD METAL STRUCTURES BY INTERFERENCE VAPOR-DEPOSITION 67-09 M13-77794
INVESTIGATION OF THE PROCESS OF GROWING EPITAXIAL GAAS FILMS BY USING THE OPEN IODIDE METHOD 67-09 M14-76851
PRODUCTION OF MOLYBDENUM AND RHENIUM FOIL FOR NUCLEAR RESEARCH 67-10 M03-78978
INVESTIGATION OF THE REDUCTION OF NIOBIUM PENTACHLORIDE BY HYDROVEN 67-10 M03-79137
A NEW LOOK FOR HIGH-VACUUM EVAPORATION 67-10 M12-78364
INVESTIGATION OF REDUCTION OF TICL4 BY HYDROGEN ON GRAPHITE SUBSTRATE 67-10 M12-79134
CHEMICAL EXTRACTION FROM THE GAS PHASE--THE METHOD AND AN APPLICATION 67-10 M12-79486
THE INCREASE IN WEAR RESISTANCE OF STAMPING TOOLS THROUGH SURFACE TREATMENT 67-10 M12-79501
PYROLYTIC GRAPHITE 67-10 M15-79953
PLATING 67-11 M12-80480
INVESTIGATION OF THE DEPOSITION OF MOLYBDENUM CARBIDE FILMS FROM MOLYBDENUM HEXACARBONYL USING AN ELECTRON BEAM 67-11 M12-81052
CONDENSATION OF MAGNESIUM VAPOR FROM A MIXTURE WITH HELIUM 67-11 M12-81214
SILICON STRIP CRYSTALS AND THEIR APPLICATION IN MICROELECTRONICS 67-11 M12-81432
AN APPARATUS FOR SPRAY COATING WITH AN ELECTRON BEAM VAPORISER 67-11 M12-81585
OXIDE DEPOSITION IN SILICON EPITAXIAL SYSTEMS 67-11 M14-80832
ADHERENCE AND POROSITY IN ION PLATED GOLD 67-12 M12-82456
DEPOSITION AND PROPERTIES OF ALUMINUM OXIDE OBTAINED BY PYROLYTIC DECOMPOSITION OF AN ALUMINUM ALKOXIDE 67-12 M12-82459
LIQUID AND SOLID CESIUM ON A RHENIUM SUBSTRATE 67-12 M14-82376
EPITAXIAL GROWTH OF ZNTE ON ZNSE BY VAPOR TRANSPORT 67-12 M14-82675
INVESTIGATION OF THE EFFECT OF CONDENSATION RATE OF SILICIDE FILMS ON THEIR ELECTRICAL CHARACTERISTICS 67-12 M15-82795

VAPOR DEPOSITION COATING
SEE ALSO VACUUM METALLIZING
A TECHNIQUE FOR DEPOSITING THIN AND THICK FILMS 67-07 M12-73221

VAPOR PHASE PLATING
SEE VAPOR PLATING

VAPOR PLATING
TITANIUM-CARBIDE COATINGS ON STEEL 67-04 M12-67965
VAPOR-PLATING ALUMINUM ON BERYLLIUM FOR WELDING 67-06 M11-71681
APPARATUS FOR PREPARING THIN LAYERS BY VACUUM EVAPORATION WITH CONTROL OF THE ELECTRICAL RESISTIVITY IN THE EVAPORATION AND HEAT TREATMENT PROCESS 67-06 M12-70931
REFRACTORY METALS PROTECTION 67-06 M12-71318
VAPOR PLATING OF TIN ONTO GALLIUM ARSENIDE 67-10 M15-79126

VAPOR PRESSURE
VAPOR PRESSURE MEASUREMENTS ON BISMUTH-SELENIUM ALLOYS 67-02 M15-59990
RECENT DATA ON THE VAPOR PRESSURES OF METALLIC ELEMENTS AND SOME REFRACTORY METALLOIDS. PT. 2 67-02 M15-60612
DETERMINING VAPOR PRESSURE OF VOLATILE SUBSTANCES 67-02 M15-60667
THERMODYNAMICS OF THE REDUCTION OF CALCIUM FROM ITS OXIDE BY SILICOALUMINUM 67-02 M15-61719
VAPOR PRESSURE OF BERYLLIUM AND LIQUID SILVER 67-03 M15-65237
VAPOR PRESSURE OF DIFFERENT METALS IN THE PRESSURE RANGE OF 50 TO 4000 TORR 67-03 M15-65731
SOLID MANGANESE VAPOR PRESSURE 67-04 M15-66820
STEADY STATES DURING HEAT TREATMENT OF NIOBIUM AND TANTALUM UNDER WATER VAPOR 67-06 M14-71726
DETERMINATION OF VAPOR PRESSURE OF VOLATILE MATERIALS 67-07 M15-73103
MEASUREMENTS OF VAPOR PRESSURE FOR NAF3-ALF3 AND 67-07 M15-73878
VAPORIZATION KINETICS OF CERAMIC OXIDES AT TEMPERATURES AROUND 2000 C 67-08 M15-75371
VAPOR PRESSURE OF MOLYBDENUM OF DIFFERENT PURITIES 67-08 M15-75900
DETERMINATION OF THE VAPOR PRESSURE OF HAFNIUM TETRAIODIDE VAPOR 67-09 M15-76581
VAPOR PRESSURE AND HEAT OF SUBLIMATION OF ZIRCONIUM AND HAFNIUM TETRACHLORIDES 67-09 M15-76582
SUBLIMATION RATES, VAPOR PRESSURE AND HEATS OF SUBLIMATION OF RHENIUM, RHODIUM, PALLADIUM AND TITANIUM 67-09 M15-77835
DISSOCIATION PRESSURE OF INDIUM ARSENIDE, GALLIUM ARSENIDE, AND GALLIUM PHOSPHIDE 67-11 M15-80161
VAPOR PRESSURE OF METAL HALIDES. THE SNCL2-ZNCL2 BINARY SYSTEM 67-11 M15-80761
DETERMINATION OF THE VAPOR PRESSURES OF METALS AT HIGH TEMPERATURES 67-11 M15-81212
THERMODYNAMICS OF FERRITIC SOLUTIONS OF THE IRON-ZINC SYSTEM AT 700 TO 900 C 67-11 M15-81332
KNUDSEN CELL STUDIES OF THE VAPORIZATION OF GADOLINIUM AND GADOLINIUM DICARBIDE 67-11 M15-81555
SEPARATION OF RARE EARTH METALS AND IRON BY DISTILLATION IN THE ELECTRON BOMBARDMENT FURNACE

67-12 M03-81816
A METHOD OF COMPUTING ELASTICITY VAPORS OF METALS DURING THEIR VACUUM THERMAL REDUCTION FROM OXIDES WITH ALLOYS 67-12 M03-83094
THE VAPOR PRESSURE OF YTTERBIUM IN THE PRESSURE RANGE OF 40-4000 TORR 67-12 M15-81831
VAPOUR PRESSURES OF THE RARE EARTH METALS, SCANDIUM AND YTTRIUM 67-12 M15-82127
VAPOR PRESSURE OF LEAD AND ACTIVITY MEASUREMENTS ON LIQUID LEAD-TIN ALLOYS BY THE TORSION EFFUSION METHOD 67-12 M15-82730
THERMODYNAMICS OF FORMATION OF BINARY RARE EARTH-MAGNESIUM PHASES WITH CSCL-TYPE STRUCTURES 67-12 M15-82848
VAPOR PRESSURE, ENTHALPY, EVAPORATION COEFFICIENT AND ENTHALPY OF ACTIVATION OF THE BERYLLIUM NITRIDE --BE3N2-- DECOMPOSITION REACTION 67-12 M15-82994

VAPORIZING
SEE ALSO DISTILLATION
EVAPORATION
FLASHING
SUBHALIDE DISTILLATION
SUBLIMATION
VACUUM DISTILLATION
EVAPORATION OF POROUS OXIDE CERAMIC AT HIGH TEMPERATURES 67-03 M05-65304
PHASE EQUILIBRIA IN THE CD-SE SYSTEM 67-06 M14-72174
EXTRACTION OF GERMANIUM AND GALLIUM FROM COAL FLY ASH AND PHOSPHORUS FURNACE FLUE DUST 67-07 M03-73617
REFRACTORIES IN HYDROGEN ATMOSPHERES 67-07 M14-74012
MASS SPECTROMETRIC STUDIES AT HIGH TEMPERATURES. PT. 17. SUBLIMATION AND VAPOR PRESSURES OF DY --III--, HO --III-- AND ER --III-- FLUORIDES 67-08 M14-75294
VAPORIZATION RATE OF SULFIDES OF NONFERROUS METALS IN VACUUM 67-09 M14-77274
EFFECT OF TEMPERATURE ON THE RATE OF VAPORIZATION OF MAGNESIUM FROM LIQUID CAST IRON 67-10 M14-79728
METHOD OF EXTRACTING SULFUR FROM IRON-CARBON-SULFUR MELTS 67-11 M14-81213
REACTION OF WATER VAPOR AND TUNGSTEN 67-12 M14-83218
VAPORIZATION OF FISSION PRODUCTS FROM IRRADIATED FUELS. PT. 1. EXPERIMENTAL METHOD AND GENERAL FISSION-PRODUCT BEHAVIOR 67-12 M16-82698

VAPORIZING, TEMPERATURE EFFECTS
VOLATILIZATION RATE OF CADMIUM SULFIDE AT 1000 TO 1400 C 67-08 M14-75873

VAPORS
SEE METAL VAPORS
WATER VAPOR

VARISTORS, ELECTRICAL PROPERTIES
NONLINEAR RESISTANCES 67-03 M16-65724

VARNISHING
ANTICORROSION PROTECTION OF STEEL TUBES BY VARNISH COATINGS 67-08 M18-76280
ANTICORROSION PROTECTION OF STEEL TUBES BY COATINGS OF LACQUER 67-10 M18-79273

VEHICLES
SEE AUTOMOBILES
FREIGHT CARS
MOTOR TRUCKS
MOTOR VEHICLES
RAILROAD CARS
TRAILERS

VEINING /CRACKS/
SEE CRACKS

VEINING /STRUCTURE/
SEE PREFERRED ORIENTATION

VERTICAL MILLING MACHINES
SEE PROFILE MILLING MACHINES

VERTICAL SHAFT FURNACES
SEE SHAFT FURNACES

VESSELS
SEE ALSO AUTOCLAVES
FUEL TANKS
PRESSURE VESSELS
PROPELLANT TANKS
STORAGE TANKS
STORAGE VESSELS
TANKS

VESSELS, CORROSION
OIL FIELD BRINE VESSELS. CATHODIC PROTECTION FOR BRINE HANDLING EQUIPMENT 67-06 M18-71228
CORROSION OF ALUMINUM ALLOYS IN CONTACT WITH STEELS AND LININGS OF PETROLEUM VESSELS 67-11 M18-81284

VESSELS, METAL WORKING
INFLUENCE OF WALL THICKNESS ON PRECISION DURING MANUFACTURE OF BOTTOMS BY SPIN FORMING 67-12 M08-81800

VIBRATION
SEE ALSO LATTICE VIBRATION
VIBRATION TREATMENT AND DIMENSIONAL STABILIZATION OF CASTINGS 67-02 M17-61017
ON THE SUPERIMPOSING OF ULTRASONIC VIBRATION DURING COMPRESSIVE DEFORMATION OF METALS 67-03 M17-65838
EFFECTS OF SUPERIMPOSED ULTRASONIC VIBRATION ON COMPRESSIVE DEFORMATION OF METALS 67-03 M17-65839
TRANSVERSE VIBRATIONS OF THE LARGE BELL OF THE BLAST FURNACE CHARGING APPARATUS 67-06 M04-71241
LOW-TEMPERATURE TENSION TESTS OF COPPER IN AN ULTRASONIC FIELD 67-07 M17-72786
IMPROVED PERFORMANCE WITH THE TRIBOLUSTER PROCESS FOR DEBURRING AND SURFACING 67-10 M12-79189
FINE FINISHING--THE DEVELOPMENT FROM HAND OPERATIONS TO VIBRATORY METHODS 67-10 M12-79191
VIBRATION REDUCES METAL TO METAL CONTACT AND CAUSES AN APPARENT REDUCTION IN FRICTION 67-10 M17-78555
VIBRATION AGING OF IRON CASTINGS 67-12 M06-82083

VIBRATION, STRESS RELIEVING
MINIMIZING RESIDUAL INTERNAL STRESSES IN METAL PARTS BY VIBRATIONAL-THERMAL TREATMENT 67-02 M10-60844

VIBRATIONAL CASTING
APPLICATION OF HIGH-FREQUENCY VIBRATIONS IN THE PRODUCTION OF PRESSURE DIE CASTINGS AND STRIPPING OF CORES 67-12 M06-83382

VIBRATORS
DEBURRING AND SURFACE FINISHING 67-03 M12-65725
VIBRATORY FINISHING 67-05 M12-68438
PANGBORN VIBRATORY MACHINES TO BE MADE HERE 67-05 M12-68900
BIG SHAKE TAKES THE STRESS OUT OF METAL 67-12 M20-81897

VIBRATORY COMPACTING
VIBRATORY COMPACTION OF FUSED UO2 67-05 M05-69201
MANUFACTURING OF PARTS BY VIBRATION COMPACTING 67-06 M09-72320
THE INFLUENCE OF FREQUENCY AND ACCELERATION DURING VIBRATIONAL COMPACTION ON THE DENSITY OF COMPACTED CERAMIC OXIDES 67-07 M05-73207
THE COMPACTION OF METAL POWDERS 67-07 M09-73859
VIBRATORY COMPACTING OF METAL POWDERS 67-07 M09-73872
NEW METHODS FOR THE CONSOLIDATION OF METAL POWDERS. V 1. PERSPECTIVES IN POWDER METALLURGY 67-07 M09-73873
PHYSICOCHEMICAL PRINCIPLES OF VIBRATORY COMPACTING. PT. 1 67-07 M09-74115
MECHANICAL PACKING OF SPHERICAL PARTICLES 67-07 M09-74116
THE VIBRATORY PACKING OF POWDERS 67-07 M09-74117
VIBRATIONAL COMPACTION OF NUCLEAR FUELS 67-07 M09-74118
VIBRATORY COMPACTING. V 2, PERSPECTIVES IN POWDER METALLURGY
STREET, NEW YORK, N.Y. 10011 67-07 M09-74119
SOME POSSIBILITIES OF USING VIBRATIONAL COMPACTING IN POWDER METALLURGY 67-08 M09-74905
INVESTIGATION OF VIBRATIONAL COMPACTING OF HARD ALLOY POWDERS 67-09 M09-76961

VIBRO ARC DEPOSITION
STUDY OF VIBROARC BUILDING OF BRONZE ON STEEL 67-01 M12-58027
A VIBROARC METAL DEPOSITION HEAD 67-02 M11-60187
SELECTION OF POWER SOURCES FOR VIBROARC METAL DEPOSITION 67-02 M11-61058
EFFECT OF TECHNOLOGICAL FACTORS OF VIBROARC BUILDUP ON PHASE COMPOSITION OF 30KH10G10 STEEL 67-02 M11-62163

DETERMINATION OF THE STATIC CHARACTERISTICS OF SELF-REGULATION SYSTEMS FOR ARC WELDING PROCESSES 67-02 M12-61147
CONTACT BUILDUP OF THE SURFACES OF ROTATING BODIES 67-04 M11-67011
THE EFFECTS OF VIBROARC METAL DEPOSITION ON THE PHASE COMPOSITION OF GRADE 30KH10G10 STEEL 67-04 M11-67178
OUTPUT OF VIBRO-ARC HARDFACING USING LARGE DIAMETER ELECTRODE WIRE 67-04 M11-67992
EFFECT OF CONDITIONS OF WIDE-LAYER BUILDUP ON SIZE OF BUILTUP LAYER 67-04 M12-66809
AUTOMATIC VIBROARC BUILD-UP OF LAYERS OF VARIOUS THICKNESS 67-06 M11-70391
VIBROARC DEPOSIT WELDING OF CAST IRON PARTS IN AIR STREAM 67-06 M11-72312
THERMOMECHANICAL TREATMENT OF METAL DURING VIBRO ARC DEPOSIT WELDING 67-08 M11-74371
RESISTANCE HARDFACING ON AXIALLY SYMMETRICAL COMPONENTS 67-08 M11-74770
EFFECT OF THE CONDITIONS ON THE DIMENSIONS OF WIDE BEADS OF DEPOSITED WELD METAL 67-08 M12-75913
AUTOMATIC VIBRO-ARC SURFACING IN DIFFERENT THICKNESSES 67-09 M11-78091
THE VIBRO-ARC DEPOSITION OF METAL ON CAST IRON COMPONENTS IN AN AIR CURRENT 67-11 M11-81584
WARM WORKING TREATMENT OF THE DEPOSIT DURING VIBRO-ARC HARDFACING 67-12 M11-82244

VIBRO ARC SURFACING
SEE VIBRO ARC DEPOSITION

VIBROFORGING
EXPERIMENTAL STUDY OF THE DISTRIBUTION OF PLASTIC STRAIN DURING VIBRATION UPSETTING WITH PLANE-PARALLEL PLATES 67-09 M07-77362

VIDEO
SEE TELEVISION

VINYL CHLORIDE PLASTICS
SEE POLYVINYL CHLORIDE

VINYL PLASTICS
SEE VINYL RESINS

VINYL RESINS
SEE ALSO ACRYLIC RESINS
POLYVINYL CHLORIDE

VINYL RESINS, COATINGS
ELECTROCOATING STEEL PIPE WITH DRY RESIN POWDER 67-03 M12-65487

VISCOELASTICITY
A DYNAMIC BIAXIAL TESTING MACHINE 67-03 M17-65661
FIBER REINFORCED COMPOSITE MATERIALS 67-08 M09-74922

VISCOMETERS
THE VISCOSITY OF LIQUID SILICON, CHROMIUM AND ITS SILICIDES 67-06 M15-69972
FLUX-PROTECTED METHOD OF MEASURING THE VISCOSITY OF MOLTEN METALS 67-10 M15-78857

VISCOMETRY
SEE VISCOMETERS

VISCOSIMETERS
SEE VISCOMETERS

VISCOSITY
METHOD OF ROUGH ESTIMATION OE THE SLAG VISCOSITY NEAR NEUTRALITY 67-01 M04-58307
PHYSICAL PROPERTIES OF HIGH-ALUMINA BLAST FURNACE SLAGS 67-02 M04-61737
INVESTIGATION OF THE VISCOSITY HYSTERESIS IN THALLIUM-BISMUTH MELTS 67-02 M15-60550
VISCOSITY MEASUREMENTS. PT. 16. THE NEW DOUBLE CAPILLARY VISCOSIMETER AND A CRITICAL SURVEY OF NEW MEASUREMENTS OF VISCOSITY-VALUES FOR PURE METALS 67-02 M15-60649
VISCOSITY OF PURE ALUMINUM 67-02 M15-61730
STUDY OF THE ELECTROCONDUCTIVITY AND VISCOSITY OF MELTS IN THE BI-SE, BI-TE AND SB-TE SYSTEMS 67-04 M15-66867
THE VISCOSITY OF TITANIUM-BEARING SLAGS AND ITS EFFECT ON LOSS OF TITANIUM IN ALLOYING STAINLESS STEELS 67-06 M04-69971
THE VISCOSITY OF LIQUID SILICON, CHROMIUM AND ITS SILICIDES 67-06 M15-69972
CHANGE IN VISCOSITY THROUGHOUT THE DEPTH OF A FLUID BED OF IRON-ORE CONCENTRATES 67-08 M03-75863
EFFECT OF SLAG COMPOSITION ON THE TRANSFER RATE OF SULFUR AND SLAG VISCOSITY IN BLAST FURNACE 67-08 M04-75801
SLAG VISCOSITY IN BLAST FURNACE MELTING OF TITANOMAGNETITES 67-08 M04-75865
ON STRUCTURAL CHANGES IN LIQUID THALLIUM 67-08 M15-74865
VISCOSITY DENSITY-COMPOSITION RELATIONSHIPS FOR LIQUID PLUTONIUM-CERIUM ALLOYS 67-09 M15-76325
THE EFFECT OF ALUMINA, CALCIUM OXIDE AND ALKALI ON THE PHYSICO-CHEMICAL PROPERTIES OF IRON-MAGNESIA SILICAL MELTS 67-09 M15-77063
THE VISCOSITIES OF LIQUID URANIUM, GOLD AND LEAD 67-09 M15-77467
VISCOSITY OF BASIC ELECTRIC STEELMAKING SLAGS 67-10 M04-79314
PHYSICAL PROPERTIES OF HIGH-MAGNESIAL BLAST FURNACE SLAGS 67-10 M04-79318
STUDY OF THE ELECTRICAL CONDUCTIVITY OF CDSNAS2 IN THE SOLID AND LIQUID STATES 67-10 M15-79831
VISCOSITIES AND RESISTIVITIES OF MELTS OF THE SYSTEM MANGANOUS OXIDE-CALCIUM OXIDE SILICA WITH 10 PER CENT ALUMINA 67-10 M15-80064
A STUDY ON THE VISCOSITY OF MOLTEN IRON 67-11 M15-80942
THE VISCOSITY OF SYNTHETIC SLAGS OF THE CAO-MGO-SIO2-AL2O3 SYSTEM 67-11 M15-81152
VISCOSITY AND ELECTRICAL RESISTANCE OF FERROSILICOCHROME AND CHROME-VANADIUM PIG 67-11 M15-81438
CALCULATING THE VISCOSITIES OF METAL ALLOYS 67-11 M15-81448
RELATIONSHIP BETWEEN THE STRUCTURES OF SOLID BLAST-FURNACE SLAGS AND THE PHYSICAL PROPERTIES OF THE MOLTEN SLAGS 67-12 M15-82406

VISCOSITY, ALLOYING EFFECTS
INFLUENCE OF ALLOYING ELEMENTS ON CASTING FLUIDITY OF LEAD AND ZINC 67-02 M06-58931
VISCOSITY OF ALUMINUM AND ALUMINUM-SILICON ALLOYS--INFLUENCE OF THE FILM OF ALUMINA 67-12 M15-81815

VISCOSITY, COMPOSITION EFFECTS
STUDY OF THE VISCOSITY OF SYNTHETIC AND NATURAL MANGANESE-RICH SLAGS 67-04 M15-67437

VISCOSITY, TEMPERATURE EFFECTS
VISCOSITY OF MOLTEN B2O3 67-04 M15-67326
THE VISCOSITY OF FUSIBLE GA-CD, GA-HG AND GA-BI DECOMPOSITION SYSTEMS 67-07 M15-72728

VISCOUS FLOW
SLAG FLOW RATES ON OXIDE MATERIALS 67-06 M15-70168
THE DEVELOPMENT OF A RHEOLOGICAL TEST INSTALLATION FOR DETERMINATION OF THE VISCOSITY OF METALLIC MELTS AND MEASUREMENT OF LIQUID FE, CO AND NI 67-10 M15-78341

VITREOUS ENAMEL
THE FISH-SCALING OF ENAMELED SHEET 67-02 M12-60023

VITREOUS ENAMEL, CORROSION
PORCELAIN ENAMEL ON ALUMINUM 67-09 M18-77909

VITREOUS ENAMEL, MECHANICAL PROPERTIES
THE DETERMINATION OF THE RESIDUAL STRAIN IN SOME VITREOUS ENAMEL COATINGS 67-10 M17-78453

VITREOUS ENAMELLING
VITREOUS COATINGS ON CASTINGS 67-03 M12-65931
SOME OBSERVATIONS ON THE CARBON-CONTAINING REGIONS OF ENAMELLING STEEL AND CAST IRON UNDER ENAMELLING CONDITIONS 67-04 M14-67903
TUBES VITREOUS ENAMELLED INSIDE OR OUT 67-06 M12-71901
PORCELAIN ENAMELING 67-08 M12-74859
VITREOUS ENAMELLING TREBLES HEATER TUBE LIFE 67-08 M12-74951
PORCELAIN ENAMEL ADHERENCE TO LOW CARBON STEEL. PT. 1 67-08 M12-75538
VITREOUS COATINGS ON CASTINGS 67-08 M12-75550
THE ADHERENCE OF PORCELAIN ENAMEL TO LOW-CARBON STEEL 67-08 M12-75564
PORCELAIN ENAMEL ADHERENCE TO LOW CARBON STEEL 67-09 M12-78297
STEEL SHEET FOR ONE-COAT VITREOUS ENAMELLING 67-10 M12-79498
VITREOUS ENAMELLING TREBLES HEATER-TUBE LIFE 67-10 M12-79787
NEW LINE PORCELAIN ENAMELS WATER HEATERS 67-10 M20-79198

VITRIFICATION
SEE MELTING

VOIDS
ANNUAL REVIEW OF UNALLOYED AND ALLOY STEEL CASTINGS. PT. 3 67-05 M07-68522
HETEROGENEOUS NUCLEATION OF VOIDS IN QUENCHED ALUMINUM 67-05 M14-69759

VOIDS
ON VOID FORMATION IN NICKEL DURING CREEP 67-09 M17-77936
ELECTROMIGRATION EFFECTS IN ALUMINUM FILM ON SILICON SUBSTRATES 67-11 M16-81203
MORPHOLOGIES OF BUBBLES AND VOIDS IN TUNGSTEN 67-12 M13-83064
VOLATILITY
RECENT DATA ON THE VAPOR PRESSURES OF METALLIC ELEMENTS AND SOME REFRACTORY METALLOIDS. PT. 2 67-02 M15-60612
THE OXIDATION OF CHROMIUM DIFFUSION COATINGS ON IRON-- CHROMIUM VOLATILITY AND EXPERIMENTAL TECHNIQUES 67-05 M12-68639
THE INFLUENCE OF H4SIO4 AND OTHER ADMIXTURES UPON THE CHLORIDIZING VOLATILIZATION OF ZN FROM ZNO WITH CACL2 67-08 M03-74654
VOLATILIZATION
SEE VAPORIZING
VOLATILIZING
SEE VAPORIZING
VOLTAGE
SEE ELECTRIC POTENTIAL
VOLTAGE DROP
SEE ELECTRIC POTENTIAL
VOLTAGE GAIN
ACOUSTOELECTRIC EFFECT IN SEMICONDUCTING CDS 67-04 M16-66776
VOLTAGE MEASUREMENT
SEE ELECTRICAL MEASUREMENTS
VOLTMETERS
SEE POTENTIOMETERS /INSTRUMENTS/
VOLUME, PRESSURE EFFECTS
COMPRESSION OF MERCURY AT HIGH PRESSURE 67-07 M15-74216
VOLUMETRIC ANALYSIS
DETERMINATION OF SULFUR AND CARBON FROM A SINGLE WEIGHING IN CARBON AND HIGH-ALLOY STEELS 67-07 M19-72674
ANALYSIS OF SODIUM ALUMINATE SOLUTIONS BY PHOTOMETRIC TITRATION 67-09 M19-77031

WAFERS
PROPER FLUIDS MEAN BETTER QUARTZ GRIND 67-06 M08-72030
WAFERS, CRYSTAL GROWTH
TRAVELING SOLVENT DEFECTS ON SILICON WAFERS 67-05 M14-68631
WAFERS, CUTTING
ELECTROLYTIC SLICING OF GERMANIUM.. CHARACTERISTICS OF THE --111--, AND --100-- N- AND P- TYPE SURFACES 67-05 M08-68780
WAFERS, ELECTRICAL PROPERTIES
DIELECTRICALLY ISOLATED SILICON WITH A SHARP IMPURITY GRADIENT 67-06 M16-71694
WAGONS
SEE TRAILERS
WALL THICKNESS
SEE THICKNESS WALLS
WALLS
SEE ALSO BULKHEADS CURTAIN WALLS
ULTRASONIC WALL THICKNESS GAGING OF BOILER TUBES 67-07 M19-72560
WARHEADS, MACHINING
ROCKET WARHEADS PROVIDE NEW WORK FOR ONTARIO PLANT 67-05 M08-68805
WARM WORKING
ON THE WARM WORKING OF LIGHT METALS. PT. 1 67-05 M07-68863
TO BEAT THE COST OF COLD FORMING--TRY WARM FORMING 67-05 M08-68664
PRESSURE VESSELS OF HIGH PROOF STRENGTH WARM WORKED STAINLESS STEEL 67-10 M17-79923
ADVANTAGES OF WARM FORMING 67-11 M07-81693
EFFECT OF THE DEGREE OF DEFORMATION ON SPECIFIC PRESSURE IN WARM ROLLING OF IRON-ALUMINUM ALLOYS 67-12 M07-83330
WARM PRESSURE SHAPING OF METALS 67-12 M07-83334
HIGH STRENGTH STAINLESS STEELS 67-12 M10-81773
WARPAGE
DIMENSIONAL CHANGES IN HEAT TREATING OPERATIONS AND THEIR PREVENTION BY PROPER DESIGN WITH EMPHASIS ON SIMPLE HEAT TREATING METHODS 67-01 M10-58722
WARPING OF EDGES IN WELDING THIN SHEET MATERIALS 67-01 M11-57371
DEFORMATION OF TOOL STEEL DURING HEAT TREATMENT 67-02 M10-58863
DEFORMATION OF STEEL DURING QUENCHING 67-02 M10-60846
DEFORMATION OF CARBURIZED CYLINDRICAL GEARS DURING HEAT TREATMENT 67-02 M10-60847
UTILIZATION OF THE KINETIC PLASTICITY OF STAINLESS STEEL FOR DECREASE IN WARPAGE DURING HEAT TREATMENT 67-02 M10-60848
CORRUGATING ALUMINUM SHEET STRUCTURAL ELEMENTS TO REDUCE WELDING STRAINS 67-04 M08-67017
WARPAGE OF THIN WALLED PARTS DURING RELAXATION OF RESIDUAL STRESSES 67-04 M10-66358
NOTCH SENSITIVITY AND CRACK SUSCEPTIBILITY OF ATSM, ATSMU AND AM ALLOYS AND OF THEIR WELDED JOINTS 67-04 M17-67146
EFFECT OF SHORT HEATING PERIODS ON THE MECHANICAL PROPERTIES OF 20S SHEET STEEL 67-04 M17-67969
THE FEASIBILITY OF OMITTING A HIGH TEMPER IN THE PRODUCTION OF UNIT MACHINE BEDPLATES 67-05 M11-69404
A METHOD OF STUDYING BULGING FORCES IN SHEET STAMPING 67-06 M08-70282
INVESTIGATION OF HEAT EFFICIENCY OF COMPRESSED ARC WELDING OF THIN SHEET MATERIALS 67-06 M11-71643
DECREASING THE RESIDUAL DEFORMATIONS DURING ARC WELDING OF THERMALLY STRENGTHENED STEELS 67-07 M11-72734
STEELPLANT INGOT MOLDS OF NODULAR IRON 67-07 M17-73260
CORRUGATING COMPONENTS OF SHEET ALUMINIUM STRUCTURES AS A MEANS OF REPRODUCING WELDING DEFORMATIONS 67-08 M08-74776
CRYOGENIC QUENCHING CUTS WARPAGE 67-08 M10-75000
DEFORMATION OF STEEL DURING QUENCHING 67-08 M10-76104
DEFORMATION OF CASE HARDENED CYLINDRICAL GEARS DURING HEAT TREATMENT 67-08 M10-76105
UTILIZATION OF THE KINETIC DUCTILITY OF STAINLESS STEEL TO DECREASE THE WARPING OF MACHINE PARTS DURING HEAT TREATMENT 67-08 M10-76106
DISPENSING WITH THE HIGH TEMPERATURE TEMPERING OF HOUSING BEDS FOR STANDARD CUTTING MACHINES 67-10 M11-78508
THE THERMAL EFFICIENCY OF CONSTRICTED ARC WELDING ON THIN SHEET MATERIAL 67-10 M11-79610
DISTORTION OF THIN-WALLED PIECES DURING RELAXATION OF RESIDUAL STRESSES 67-11 M10-80960
VIBRATION AGING OF IRON CASTINGS 67-12 M06-82083
CONDITIONS OF VIBROAGING OF MACHINE PARTS MADE OF CAST IRON 67-12 M10-81775
REDUCTION OF RESIDUAL DEFORMATIONS WHEN WELDING HARDENABLE STEELS 67-12 M11-82313
WARPAGE, HEATING EFFECTS
INVESTIGATION OF WARPAGE IN CAST IRON MACHINE STANDS 67-12 M10-81907
WARPAGE, STRESS EFFECTS
STABILIZING THE GEOMETRICAL SHAPE OF CASTINGS BY THE STATIC OVERLOADING METHOD 67-04 M06-66422
EFFECT OF THE GEOMETRIC FORM OF THE OBLIQUE-POSITIONED PASS ON STRIP STABILITY DURING ROLLING 67-07 M07-73786
INFLUENCE OF GEOMETRY OF DIAGONAL ROLL PASS ON STEADINESS OF STRIP IN WORK 67-09 M07-76549
WARPING
SEE WARPAGE
WARSHIPS, PRESSURE VESSELS
STEELS FOR HYDROSPACE PRESSURE HULLS 67-06 M11-70122
WASHING
EFFECT OF THE WASHING PROCESS ON THE SETTLING RATE OF RED MUDS FROM ALUMINA PRODUCTION 67-04 M03-67529
NEW ECONOMIC CONSIDERATIONS APPLYING TO BENEFICIATION FLOTATION OF ORES 67-12 M02-82609
WASHING MACHINES
SEE ELECTRIC APPLIANCES
WASTE GASES
SEE EXHAUST GASES
WASTES
SEE ALSO AIRBORNE WASTES INDUSTRIAL WASTES RADIOACTIVE WASTE

TAILINGS
WASTES, RECLAMATION
IRON POWDER FROM PICKLING WASTES
67-06 M09-72214
WASTES, RECOVERING
A HYPOCHLORIDE METHOD OF TREATING DUST WASTES FROM CERMET TOOL SHARPENING 67-01 M02-57310
WASTES, REFINING
CHARACTERISTICS OF PRODUCTS OF ELECTROLYTIC REFINEMENT OF SOME TITANIUM WASTES
67-02 M03-62055
WATER
SEE ALSO SALT WATER
SEA WATER
WATER, CORROSION ENVIRONMENTS
OXIDE DISSOLUTION AND ITS EFFECT ON THE CORROSION OF 1100 ALUMINUM IN WATER AT 70 C
67-06 M18-72168
THE CORROSION OF 1100 ALUMINUM IN WATER FROM 50 TO 95 C 67-06 M18-72169
INVESTIGATION OF THE CORROSION BEHAVIOR OF SOME ALUMINUM ALLOYS IN FLOWING WATER AT 240 C
67-10 M18-78681
FUEL-WATER REACTIONS 67-11 M18-80464
WATER, DIFFUSION
DIFFUSION OF H2-H2O THROUGH POROUS IRON FORMED BY THE REDUCTION OF HEMATITE 67-03 M14-65100
WATER, REACTIONS /CHEMICAL/
THE INTERACTION OF TITANIUM CARBIDE AND WATER
67-10 M14-79347
WATER CHEMISTRY
POTENTIOSTATIC MEASUREMENT OF THE INFLUENCE OF WATER ON ALUMINUM 67-04 M18-66594
WATER CONTENT
SEE MOISTURE CONTENT
WATER COOLING
THE OPERATION OF A LARGE WATERCOOLED HOT BLAST CUPOLA 67-04 M04-67116
CORE-TYPE INDUCTION FURNACES IN GRAY CAST IRON FOUNDRIES 67-05 M06-69312
WATER HEATERS
NEW LINE PORCELAIN ENAMELS WATER HEATERS
67-10 M20-79198
WATER MAINS
SEE MAINS
WATER PIPELINES
WATER PIPELINES, CORROSION
DOES CATHODIC PROTECTION CAUSE INTERNAL CORROSION 67-06 M18-70895
PROTECTION WITH MORTAR COATINGS. COATING THICKNESS GOVERNS DEGREE OF PROTECTION 67-06 M18-71230
WATER PIPELINES, MATERIALS
DEVELOPMENT AND APPLICATION OF SEGMENT-TYPE-PIPE
67-09 M11-77332
WATER PIPES
SEE WATER PIPELINES
WATER POLLUTION
CLOSING THE LOOP ON CHROME RECOVERY
67-07 M12-72515
WATER QUENCHING
ACCELERATED COOLING AFTER COIL ANNEALING
67-01 M10-58492
HOW STEEL GETS QUENCHED AND TEMPERED
67-02 M10-61815
DEVELOPMENT IN EQUIPMENT AND PRACTICES FOR QUENCHING STEEL PLATES 67-03 M10-65923
DEVELOPMENT IN EQUIPMENT AND PRACTICES FOR QUENCHING STEEL PLATES 67-04 M10-67368
CHANGE IN STRUCTURE AND HARDNESS OF 45 STEEL DEPENDING ON COOLING RATE 67-04 M10-67783
NATURE OF THE CHANGE IN COOLING RATES IN DIFFERENT POINTS IN THE CROSS-SECTION OF BILLETS
67-04 M14-66701
QUENCHING STEEL PLATE ON THE FLY
67-06 M10-70728
A DECADE OF IMPROVEMENTS IN GENERATOR ROTOR FORGINGS 67-06 M17-70725
TRANSFORMATION OF DELTA FERRITE DURING A QUENCHING TREATMENT 67-08 M14-76211
WATER TURBINES
SEE HYDRAULIC TURBINES
WATER VAPOR, CORROSION ENVIRONMENTS
EFFECT OF COLD WORK ON THE OXIDATION OF FE-CR ALLOYS IN WATER VAPOUR AT 600 C
67-05 M18-68638
WATERPROOFING
MOISTURE-REPELLANCY OF FLUOROCALCIUM-TYPE ELECTRODE COATINGS 67-08 M12-75415
WATER REPELLANT CALCIUM FLUORIDE ELECTRODE COATINGS 67-12 M12-82036
WATTS BATH
SEE BATHS
ELECTROPLATING
NICKEL PLATING
WAVE MECHANICS
APPROXIMATE CALCULATION OF ELECTRONIC STRUCTURE OF DISORDERED ALLOYS-APPLICATION TO ALPHA BRASS
67-02 M16-60768
DIRECT AND CORE-POLARIZATION CONTRIBUTIONS TO THE KNIGHT SHIFT IN METALLIC ALUMINUM
67-02 M16-61568
PARTICLE WAVES AND DEFORMATION IN CRYSTALLINE SOLIDS 67-02 M17-59076
THEORY OF MAGNETOELASTIC INTERACTION IN THIN MAGNETIC FILM 67-04 M16-66493
METALS AND NONMETALS--MEMBERS OF THE SAME FAMILY
67-04 M16-67548
LATTICE VIBRATIONS OF BEO 67-05 M13-68279
PROPAGATION OF FINITE AMPLITUDE WAVES IN SINGLE CRYSTALS OF HIGH-PURITY ALUMINIUM
67-07 M17-73140
SELF-CONSISTENT ENERGY BANDS OF METALLIC COPPER BY THE AUGMENTED-PLANE-WAVE METHOD
67-09 M16-77167
WAVE NUMBERS
SEE WAVELENGTHS
WAVEGUIDES
A TWO-MILE COPPER TUBE FOR THE WORLDS LARGEST LINEAR ELECTRON ACCELERATOR 67-03 M20-65498
SOME CURRENT DEVELOPMENTS IN ELECTROFORMING
67-07 M12-73372
MECHANICAL FORMING REPLACES ELECTROFORMING
67-11 M07-80676
WAVEGUIDES, MATERIALS
SOME EXPERIENCES IN COPPER ELECTROFORMING OF WAVE GUIDES 67-03 M08-65418
WAVELENGTHS
ELECTRON PROBE MICROANALYSIS OF THE LOW ATOMIC NUMBER ELEMENTS WITH NPL X-RAY GRATINGS
67-04 M10-67262
THE THEORY OF STABILITY DURING TEMPERATURE GRADIENT ZONE MELTING 67-08 M14-75230
LOW TEMPERATURE FAR INFRARED SPECTRA OF SIO2 POLYMORPHS 67-11 M13-81685
WAVES
SEE BREMSSTRAHLUNG
ELECTROMAGNETIC WAVES
GAMMA RAYS
INFRARED RADIATION
LAMB WAVES
MICROWAVES
POLARIZED LIGHT
SHOCK WAVES
SOUND WAVES
THERMAL RADIATION
TRANSVERSE WAVES
X RAYS
WAXES
MODELING WAXES FOR PRECISION METAL CASTING
67-07 M06-73726
WEAPONS
SEE AIRCRAFT ROCKETS
BOMBS /WEAPONS/
GUNS
MISSILES
WEAR
HOW HEAT AFFECTS TOOL WEAR 67-01 M08-58509
TENSILE STRENGTH AND WEAR RESISTANCE OF STEEL IN RELATION TO QUENCHING TEMPERATURE
67-01 M17-57191
PEARLITIC MALLEABLE FOR WEAR RESISTANCE PAR EXCELLENCE 67-01 M17-57237
WHAT CAUSES REFRACTORY WEAR 67-01 M17-57435
CASTINGS OF 30KHN2 ALLOY 67-02 M04-61228
ECONOMICAL PRODUCTION IN THE DAIRY FITTINGS INDUSTRY THROUGH THE INTRODUCTION OF PRECISION-CAST HOUSING PARTS 67-02 M06-60034
MILLING GROOVES IN HEAT-RESISTANT STEELS BY END CUTTERS 67-02 M08-61258
ANTIFRICTION PROPERTIES OF IRON-BASE SINTERED MATERIALS AT DRY FRICTION 67-02 M09-60977
USE OF LOW ALLOY STEELS IN THE MANUFACTURE OF TOOTHED WHEELS BY MECHANICAL WELDING
67-02 M11-60610
PLATING PROCESSES FOR REDUCED MAINTENANCE
67-02 M12-60237
FRICTIONAL WEAR IN FCC METAL SINGLE CRYSTALS
67-02 M14-60142

THE ABRASION RESISTANCE OF SOME HARDENED AND TEMPERED CARBON STEELS 67-02 M17-59431
THE CAVITATION BREAKDOWN OF STEELS MADE IN AN ELECTRIC ARC FURNACE 67-02 M17-59552
STRUCTURE AND CUTTING PROPERTIES OF SMALL SIZE DRILL BITS OF R18 TOOL STEEL 67-02 M17-59774
INVESTIGATION OF THE POSSIBILITY OF USING TITANIUM ALLOYS FOR SURGICAL INSTRUMENTS AND APPARATUS AND METHODS FOR JOINING TISSUES 67-02 M17-59900
IMPACT FATIGUE STRENGTH OF HIGH-STRENGTH STAINLESS STEELS IN A WATER JET 67-02 M17-59952
STUDY OF THE ABRASIVE PROPERTIES OF REFRACTORY COMPOUNDS 67-02 M17-60181
INVESTIGATION OF ABRASIVE RESISTANCE OF NEW MATERIALS 67-02 M17-60980
AUSTENITIC MANGANESE CAST IRON 67-02 M17-61188
EFFECT OF HOLD-TIME AT HEAT PRIOR TO QUENCHING ON WEAR RESISTANCE 67-02 M17-61805
INFLUENCE OF PREQUENCH TEMPERING ON WEAR RESISTANCE OF G13L CAST MANGANESE STEEL 67-02 M17-61975
ALUMINIUM-TIN ALLOY AS A BEARING MATERIAL FOR MACHINE TOOL APPLICATION 67-02 M20-61565
WEAR 67-03 M04-65922
INVESTIGATION OF WEAR PHENOMENA OF BLAST FURNACE
INVESTIGATION OF WEAR PHENOMENA OF BLAST FURNACE
INVESTIGATION OF WEAR PHENOMENA OF BLAST FURNACE LININGS
LININGS
LININGS 67-03 M04-65922
THE MECHANISM OF FAILURE OF THE HEARTH BOTTOM IN A BLAST FURNACE 67-03 M04-65957
DISINTEGRATION OF MAGNESIA REFRACTORIES IN CONVERTER MELTING OF COPPER 67-03 M05-65301
WEAR
CHANGE IN PHASE COMPOSITION OF DOLOMITE BOTTOM
CHANGE IN PHASE COMPOSITION OF DOLOMITE BOTTOM DURING SERVICE
DURING SERVICE 67-03 M05-65303
THE EVALUATION OF ROLLING WEAR INVESTIGATIONS. PT. 1 67-03 M07-65598
WEAR
INVESTIGATION OF THE WEAR OF HIGH-SPEED STEEL
INVESTIGATION OF THE WEAR OF HIGH-SPEED STEEL TURNING TOOLS
TURNING TOOLS 67-03 M08-65708
CASTINGS IN HIGH CHROMIUM ALLOY KH30N2 67-04 M04-68089
HOW REFRACTORY QUALITY AFFECTS GAS FLAME FURNACE LINING SERVICE 67-04 M05-67877
WEAR RESISTANCE OF ENGINE VALVE SEATS 67-04 M06-66425
INVESTIGATION OF WEAR WITH VARIOUS ORES AND BALLS 67-04 M09-67746
IMPROVEMENT OF THE WEAR RESISTANCE OF SPHEROIDAL GRAPHITE CAST IRON BY IONITRIDING 67-04 M10-68128
ANTIFRICTION PROPERTIES AND WEAR RESISTANCE OF BRONZE, PIG IRON AND GRAPHITIC STEEL 67-04 M17-66017
WEAR-RESISTANT STEEL 67-04 M17-66102
THE RELATIONSHIP BETWEEN BASIC MODES OF WEAR AND EXPERIENCE IN ENGINEERING PRACTICE 67-04 M17-66292
PHASE TRANSFORMATIONS AND PROPERTIES OF CUTTING TOOL ALLOYS WITH INTERMETALLIC STRENGTHENING PHASES 67-04 M17-66366
EFFECT OF COPPER IN THE COMPOSITION OF AN ALLOY ON THE WEAR RESISTANCE OF HARD WELD OVERLAYS 67-04 M17-66651
ALLOY CAST IRON 67-04 M17-66862
MECHANISM OF BREAKDOWN OF A STEEL SURFACE BY FREE STRIKING ABRASIVE GRAINS 67-04 M17-67046
MECHANICAL PROPERTIES OF SOME AUSTEMPERED STEEL TYPES USED FOR PLOWSHARES 67-04 M17-67822
INVESTIGATION OF R12 STEEL 67-04 M17-67962
INCREASE OF THE WEAR RESISTANCE OF MACHINE PARTS OPERATED IN HYDROABRASIVES MEDIA 67-04 M17-67964
PROBLEMS OF WEAR OF FUNCTIONAL SURFACES OF MINIATURE MECHANICAL PARTS 67-04 M17-68021
STUDY OF WEAR OF CASTING AL ALLOYS 67-04 M17-68064
ROLLING INGOTS ON ROLLS WITH HIGHLY RESISTANT MILLED SURFACES 67-04 M17-68193
COMPOUND KNIFE STEELS WITH WEAR-RESISTANT CUTTING EDGES 67-04 M20-66216
FACTORS AFFECTING THE PERFORMANCE OF OXYGEN STEELMAKING LININGS 67-05 M04-68643
WEAR IN MAGNESITE-CHROMITE STOPPER TUBES IN VACUUM DEGASSING OF TRANSFORMER STEEL 67-05 M04-69308
PROSPECTS FOR MANUFACTURING OF GAS TURBINE SEALS WITH CONSIDERATIONS OF PHYSICAL AND CHEMICAL FACTORS 67-05 M09-69020
WEAR AND FRICTION OF THE PLATINUM METALS. PERFORMANCE IN SLIDING CONTACTS 67-05 M17-69282
INVESTIGATION OF THE STRUCTURE OF SURFACE LAYERS OF G13 STEEL IN DIFFERENT FRICTION CONDITIONS 67-05 M17-69303
CYCLING STRENGTH AND WEAR RESISTANCE OF 40KHN STEEL AFTER QUENCH WITH TEMPER AND AFTER ISOTHERMAL TREATMENT 67-05 M17-69699
BEHAVIOR OF STAINLESS STEELS DURING FRICTION IN AGRESSIVE MEDIA. PT. 2 67-05 M18-69493
TUNDISH NOZZLE BRICKS FOR THE CONTINUOUS CASTING OF STEEL 67-06 M04-72276
FAILURE MECHANISM OF PERICLASESPINEL AND CHROMITE-MAGNESITE LININGS IN OXYGEN CONVERTERS 67-06 M05-70564
WEAR MEASUREMENTS ON THE LINING OF A KALDO CONVERTER 67-06 M05-70840
WHY REFRACTORIES WEAR 67-06 M05-70845
APPLICABILITY OF SINTERED ALUMINIUM OXIDE AS A WEAR-RESISTING AND HEAT-RESISTING MATERIAL 67-06 M09-71705
PROTECTIVE COATINGS HELP TO EXTEND JET ENGINE PART LIFE 67-06 M12-70472
LENGTHENING THE LIVES OF METALLURGICAL INGOT MOLDS 67-06 M17-70197
WEAR CONSIDERATIONS IN DESIGN 67-06 M17-70698
GUIDE TO SELECTION OF MATERIALS FOR BUSHINGS AND THRUST BEARINGS 67-06 M17-70724
EFFECT OF AN ELECTRIC FIELD ON THE CAVITATION DISINTEGRATION OF METALS 67-06 M17-70937
WIRE LIFE ON A PAPER MACHINE 67-06 M17-71562
BRIDGING THE GAP WITH THE NEW TITANIUM GRADE CARBIDES 67-06 M17-71587
DESIGN OF AN ABRASION TESTING MACHINE AND THE ABRASION OF CARBON STEELS AT ELEVATED TEMPERATURES 67-06 M17-71737
WEAR ON SHEARING TOOLS--WEAR ON CUTTING EDGES OF BLANKING TOOL FOR SQUARE PARTS 67-06 M17-72264
THE EFFECT OF CARBON IN TAR-IMPREGNATED BURNT MAGNESITE BRICK ON THE WEAR OF BASIC OXYGEN FURNACE LININGS 67-07 M04-72710
EXPERIENCES WITH INGOT MOLDS OF NODULAR CAST IRON. PT. 2. SERVICE PERFORMANCE IN THE STEEL MILL OF INGOT MOLDS OF NODULAR CAST IRON 67-07 M04-73010
POURING RATE AND NOZZLE WEAR OF STEEL PLANT LADLES 67-07 M04-73241
WEAR-RESISTANT CYLINDER SLEEVES 67-07 M06-74051
NITRIDABLE TITANIUM STEELS AND THEIR APPLICATION IN THE PRODUCTION OF MILL PRODUCTS 67-07 M10-74212
ELECTROLESS NICKEL DEPOSITED AT CONTROLLED PH--MECHANICAL PROPERTIES AS A FUNCTION OF PHOSPHORUS CONTENT 67-07 M12-74122
THE CONTRIBUTION OF PLASMA SPRAYING TECHNIQUES TO THE PROTECTION AGAINST WEAR OF TOOLS 67-07 M12-74160
INFLUENCE OF TAPPET ROTATION ON CAM AND SURFACE DETERIORATION 67-07 M15-74250
OPERATING GEARS IN A SIMULATED SPACE VACUUM--THE VACUUM FACILITY AND SEVERAL TECHNIQUES 67-07 M17-72758
WEAR-RESISTING CLAD PLATE AND ITS USE IN THE PRODUCTION OF LARGE-DIAMETER TUBE 67-07 M17-73023
ANTIFRICTION AND MECHANICAL PROPERTIES OF TAVEN, A NEW ANTIFRICTION CAST IRON 67-07 M17-73033
PROPERTIES OF MOTTLED IRON ALLOYED WITH CR, NI AND V FOR MILL ROLLS 67-07 M17-73053
THE MECHANICAL PROPERTIES OF CARBONITRIDED STEELS. PT. 1. BENDING STRENGTH AND TOUGHNESS OF CARBONITRIDED STEELS WITH HIGH CORE STRENGTHS 67-07 M17-73186
THE EROSION OF DEPOSITED METALS BY STREAMS OF ABRASIVE SUBSTANCES 67-07 M17-73426
RESISTANCE OF DEPOSITED METAL TO CONTACT-IMPACT LOADS 67-07 M17-73427
THE EFFECT OF PHOSPHORUS ON THE MECHANICAL PROPERTIES AND WEAR RESISTANCE OF CAST IRON 67-07 M17-73478

THE INFLUENCE OF VARIOUS PHYSICAL PROPERTIES OF METALS ON THEIR FRICTION AND WEAR BEHAVIOR IN VACUUM 67-07 M17-74054
FRICTIONAL BEHAVIOR OF LABYRINTH SEAL AND SHROUD MATERIALS IN STEAM AND GAS TURBINES 67-07 M17-74056
FATIGUE STRENGTH AND WEAR RESISTANCE OF 40 KHN STEEL AFTER TEMPER HARDENING AND ISOTHERMAL TREATMENT 67-07 M17-74085
FRICTION AND WEAR OF UNLUBRICATED STEEL SURFACES AT SPEEDS UP TO 655 FT/SEC. 67-07 M17-74088
THE WEAR RESISTANCE OF CAST IRON 67-07 M17-74268
AN ABRASION TEST FOR USE IN AGRICULTURAL ENGINEERING 67-07 M19-74251
SWAYING OF THE BIG BELL OF BLAST-FURNACE CHARGING GEAR 67-08 M04-75710
THEORY OF TOOL LIFE FOR THE GRINDING WHEEL 67-08 M08-75568
PRODUCTION OF HIGH-STRENGTH PRODUCTS FROM PIG IRON POWDER 67-08 M09-75453
POWDER COMPOSITE CONTACTS OF INCREASED WEAR RESISTANCE 67-08 M09-75454
PRODUCTION AND PROPERTIES OF POWDERED COPPER HARDENED BY DISPERSED PARTICLES OF REFRACTORY COMPOUNDS 67-08 M09-75471
APPLYING CARBIDE COATINGS BY ADHESIVE BONDING 67-08 M12-74492
PROPERTIES OF COMBINATION COATINGS AT HIGH TEMPERATURES 67-08 M12-74590
BUILDING UP EXCAVATOR BUCKET LINE COMPONENTS WITH WEAR-RESISTANT METAL 67-08 M12-75917
THE FIGHT AGAINST WEAR. HARD-SURFACING ALLOYS IN THE AUTOMOBILE INDUSTRY 67-08 M12-76298
FIGHT AGAINST WEAR STARTS WITH MATERIAL SELECTION 67-08 M17-74488
TOOL WEAR IN STEEL CUTTING 67-08 M17-74522
WEAR ON HIGH-SPEED CAST STEEL TOOLS 67-08 M17-74556
EVALUATING THE LONGEVITY CRITERIA OF ALLOYS AT MICROSHOCK LOADING 67-08 M17-74582
EXPERIMENTAL STRESS ANALYSIS OF RAILS 67-08 M17-74680
WIRE-WOOL TYPE BEARING FAILURES..THE FORMATION OF THE WIRE WOOL 67-08 M17-74798
AUSTENITIC IRON 67-08 M17-74877
INVESTIGATION OF FRICTIONAL POWDER COMPOSITES FOR OPERATION IN OIL MEDIUM 67-08 M17-74909
SOME CAUSES OF INTENSIVE WEAR OF IRON-GRAPHITE BEARINGS UNDER INCREASED LOADS 67-08 M17-74911
FUNDAMENTAL INVESTIGATION OF THE SLIDING FRICTION OF METALS WITH RADIOACTIVE TRACERS 67-08 M17-74921
WEAR RESISTANCE OF TOOL STEELS IN ORGANIC MEDIA 67-08 M17-74978
INVESTIGATION OF THE CUTTABILITY OF BRONZE-GRAPHITE COMPOSITES 67-08 M17-75438
THE EFFECTS OF SURFACE ROUGHNESS IN THE HYDRODYNAMIC LUBRICATION THEORY OF A SHORT JOURNAL BEARING 67-08 M17-75543
RADIOTRACER METHOD FOR INVESTIGATION OF ANTIWEAR PROPERTIES OF LUBRICATING OIL ADDITIVES UNDER CONDITIONS OF ELECTRO-EROSIVE WEAR 67-08 M17-75544
INVESTIGATION OF ENGINE EXHAUST VALVE WEAR 67-08 M17-75545
WEAR RESISTANCE OF NO. 45 STEEL QUENCHED AFTER HEATING IN AN ELECTROLYTE 67-08 M17-76043
STRUCTURE AND CUTTING PROPERTIES OF SMALL DRILLS MADE OF R18 STEEL 67-08 M17-76133
WEAR AND OXIDATION PHENOMENA ON THE END CUTTING EDGE OF CARBIDE TURNING TOOLS 67-08 M18-75574
THE MECHANISM OF REFRACTORY WEAR IN OXYGEN CONVERTERS 67-09 M04-77624
DISINTEGRATION OF DOLOMITE REFRACTORIES WITH A RESIN BINDER IN STEEL-SMELTING UNITS 67-09 M05-76949
SERVICE LIFE OF HARD ALLOY TOOLS IN THE MACHINING OF POROUS SINTERED MATERIALS 67-09 M08-76929
AN ANALYSIS OF THE DEVELOPMENT OF CARBIDE TOOL CRATER WEAR 67-09 M08-78106
DENSIFICATION AND WEAR RESISTANCE OF CERAMIC SYSTEMS. PT. 1. TITANIUM DIBORIDE 67-09 M15-77963
ABRASIVE WEAR CAUSED BY GRANULAR MINERAL SOLIDS 67-09 M17-76368
INFLUENCE OF OXIDE FILMS ON FRICTION AND WEAR DURING SLIDING 67-09 M17-76369
THE WEAR OF CUTTING TOOLS AND POSSIBILITIES OF DIMINUTION 67-09 M17-76370
WEAR RESISTING CAST IRONS 67-09 M17-76375
WEAR OF METALS IN SUCROSE SOLUTIONS 67-09 M17-76438
FRICTION IN VACUUM CONDITIONS 67-09 M17-76439
ABRASIVE POWER OF REFRACTORY COMPOUNDS 67-09 M17-76914
TEST OF THE WEAR RESISTANCE AND FATIGUE STRENGTH OF SPECIMENS BUILT UP WITH ALLOY WIRE 67-09 M17-76990
INVESTIGATIONS BY SINGLE IMPACT TESTS ON A STEEL BALL AND STEEL PLATE, WITH EMPHASIS ON CRUSHING OF THE BLASTING MEDIA AND WEAR OF THE MATERIAL BLASTED 67-09 M17-77846
INVESTIGATION OF MULTIPLE IMPACTS BETWEEN STEEL BALLS AND PLATES IN CONNECTION WITH THE SHATTERING OF SHOT-PEENING MEDIA AND STEEL WEAR 67-09 M17-78189
THE COMPARATIVE WEAR RESISTANCE AND LIFE OF DIAMOND TURNING TOOLS IN MACHINING HARD CARBON 67-09 M17-78285
APPLICATIONS AND PROPERTIES OF 15-5 PH 67-10 M01-79752
HIGH-STABILITY REFRACTORIES FOR MAGNESIUM CHLORINATORS AND ELECTROLYTIC CELLS 67-10 M05-79352
CONTROLLED SOLIDFICATION 67-10 M06-79693
TOOL WEAR AND HEIGHT OF BURR IN CUTTING SHEET 67-10 M08-78700
INCREASING WEAR OF FORGING PRESS DIES 67-10 M11-78549
THE EFFECT OF OXYGEN ON POLISHING OF STEEL 67-10 M12-79112
NEW STAINLESS STEELS FOR SURGICAL CUTTING INSTRUMENTS 67-10 M17-78372
SLIDING CHARACTERISTICS OF SILVER AGAINST IRON AS INFLUENCED BY OXYGEN CONCENTRATION 67-10 M17-78551
YOU CAN AVOID THE HIGH COST OF HEAVY MACHINERY FAILURES 67-10 M17-78628
EFFECT OF TEMPERING BEFORE QUENCHING ON THE WEAR RESISTANCE OF G13L STEEL 67-10 M17-78832
SHAFT CURRENTS AS CAUSES OF BEARING FAILURE 67-10 M17-78901
THE SERVICE LIFE OF RAILS INOCULATED WITH TITANIUM 67-10 M17-78940
THE WEAR RESISTANCE OF CHROMIUM-SILICON-MANGANESE STEEL WHEN EXPOSED TO BOUNDARY FRICTION AND HIGH SPECIFIC LOADS 67-10 M17-78952
THE WEAR OF METALS BY HARD ABRASIVES 67-10 M17-79109
AN ELECTRON-MICROSCOPIC STUDY OF ALUMINUM WEAR PARTICLES FORMED DURING SLIDING IN THE PRESENCE OF POLYGLYCOLS 67-10 M17-79110
FRICTION AND WEAR PROPERTIES OF RHENIUM 67-10 M17-79111
INFLUENCE OF LUBRICANT ADDITIVES ON WIRE-WOOL TYPE BEARING FAILURES WITH 12 PER CENT CHROMIUM STEEL JOURNALS 67-10 M17-79578
RESEARCH INTO THE BREAKDOWN OF STEEL BY CORROSION AND EROSION DURING THE FILTRATION OF COAL AND THE PRODUCTS OF BENEFICIATION 67-10 M18-78946
N2-ALLOYED HEAT AND SCALING-RESISTANT STEEL CASTINGS. PT. 2 67-11 M01-81545
DEVELOPMENTS IN THE USE OF DIRECT-BONDED BRICK 67-11 M04-80109
MECHANISM OF REFRACTORY WEAR IN OXYGEN CONVERTERS 67-11 M04-80912
STUDY OF BLAST FURNACE STACK REFRACTORY LIFE WITH THE AID OF ISOTOPES 67-11 M04-81303
WHY REFRACTORY BLAST FURNACE LININGS UNDERGO WEAR 67-11 M04-81626
THE DEPENDENCE OF TOOL WEAR ON CUTTING CONDITIONS CHIP-FORMING MACHINING 67-11 M08-81530
CARBONITRIDED STEEL PARTS FIGHT WEAR, TAKE IMPACT 67-11 M10-80526
PROPERTIES OF A NEW 2 PER CENT CR-MO-V-AL NITRIDING CREEP-RESISTING STEEL - HK 5 67-11 M17-80274
STUDIES OF MALLEABLE IRON CASTINGS WITH SPHEROIDAL GRAPHITE. PT. 2. THE PROPERTIES OF MALLEABLE IRON CASTINGS WITH SPHEROIDAL GRAPHITE 67-11 M17-80957
TRANSFORMATIONS AND PROPERTIES OF HIGH-SPEED ALLOYS HARDENED WITH INTERMETALLIC COMPOUNDS 67-11 M17-80968
COMPARATIVE WEARING CAPACITY OF CERTAIN METALS IN TOP GAS FLOWS 67-11 M17-81302

WEAR

PREDICTING BEARING PERFORMANCE 67-11 M20-81366
THE EFFECT OF METALLURGICAL FACTORS ON THE WEAR OF REFRACTORY LININGS IN OXYGEN TOP-BLOWING CONVERTERS 67-12 M04-82663
INVESTIGATION OF WEAR PHENOMENA OF BLAST FURNACE LININGS 67-12 M04-82887
EXTENDING THE LIFE OF 100-TON CONVERTER LININGS 67-12 M04-83466
EFFECT OF CASTING WALL THICKNESS ON THE STRUCTURE OF ANTIMONOUS CAST IRONS 67-12 M06-82622
NEW HIGHLY WEAR RESISTANT ALLOYS FOR ROLL GUIDE UNITS OF ROD MILLS 67-12 M07-81871
THE WEAR RESISTANCE OF MACHINE TOOLS UNDER VARIOUS CUTTING CONDITIONS 67-12 M08-82463
A TECHNIQUE TO OPTIMIZE CONTROL OF PROCESS VARIABLES IN RELATED STUDIES OF CAUSES AND EFFECTS OF METAL CUTTING BEHAVIOUR 67-12 M08-82779
EFFECTS OF GRINDING FLUIDS ON GRINDING PERFORMANCES IN FORCED INFEED PLUNGE GRINDING 67-12 M08-83545
EFFECTS OF BORON ON STRUCTURE AND PROPERTIES OF WELD DEPOSITED METAL 67-12 M11-83539
CHROMIZING TURNS PINK TO REDUCE WEAR 67-12 M12-82399
PROPERTIES OF ELECTRODEPOSITED AG-CU ALLOYS. PT. 4. METALLURGICAL STUDIES ON ELECTRICAL CONTACT MATERIALS 67-12 M12-83509
WEAR RESISTANCE OF PREHEATED STEEL AFTER REPEATED HEAT TREATMENT 67-12 M17-81718
STUDY OF THE ABRASIVE WEAR OF MATERIALS UNDER ACTUAL CONDITIONS OF BLAST FURNACE OPERATION 67-12 M17-81728
THERMAL RESISTANCE AND WEAR RESISTANCE OF ROLLING MILL GUIDES 67-12 M17-81729
PEARLITIC-FERRITIC MALLEABLE CAST IRON IN AGRICULTURAL MACHINERY CONSTRUCTION 67-12 M17-81986
WEAR OF CAST IRON ROLLS 67-12 M17-82095
THE RANGE OF RATIONAL APPLICATION OF POLYMERS AS ANTIFRICTION MATERIALS AND THE MECHANISM OF THEIR SELF-LUBRICATING ACTION 67-12 M17-82194
A STUDY OF THE ANTIFRICTION PROPERTIES OF COMPOSITE METAL/POLYMER MATERIALS IN A VACUUM AND IN CERTAIN GAS ATMOSPHERES 67-12 M17-82195
FRICTIONAL AND WEAR RESISTANT BEHAVIOR OF A MACHINE TOOL SLIP-GUIDE 67-12 M17-82462
COMPARATIVE WEAR TESTS ON BATH-NITRIDED SPECIMENS 67-12 M17-82692
THE MECHANISM OF FLANK WEAR IN CARBIDE TOOLS 67-12 M17-82773
WEAR OF ENGINEERING MATERIALS 67-12 M17-82915
SLURRY ABRASION 67-12 M17-82916
LAMINATED MARTENSITIC WHITE IRONS 67-12 M17-82917
RADIOACTIVE TOOL-WEAR TESTING ON FREE-CUTTING BRASS 67-12 M17-83285
WEAR OF A GRAPHITE ELECTRODE IN AN ELECTRIC ARC 67-12 M17-83449
CORROSION AS A FACTOR IN THE WEAR OF TUBE-MILL LINERS 67-12 M18-81802
EROSION OF METALS BY SOLID PARTICLES 67-12 M18-81856
TIN AGAINST FRICTION AND WEAR 67-12 M20-81733

WEAR, ALLOYING EFFECTS
EFFECT OF ADDITIONS OF SULFUR ON THE WEAR RESISTANCE OF GRAY CAST IRON 67-02 M17-62277
PIG IRON WITH A HIGH CONTENT OF MANGANESE FOR CASTING WEAR-RESISTANT PARTS 67-04 M17-67440
THE STRUCTURE AND WEAR RESISTANCE OF A NICKEL-FREE POWDERED HARD ALLOY WITH A HIGH MANGANESE CONTENT 67-08 M17-74863
THE EFFECT OF CERTAIN ADDITIVES ON THE WEAR RESISTANCE OF FRICTIONAL POWDER COMPOSITES 67-08 M17-74910
THE WEAR BEHAVIOR OF HEAT TREATABLE FORGING DIE STEELS 67-09 M17-78191
THE ABRASIVE WEAR RESISTANCE OF HIGH-CARBON CHROMIUM-MOLYBDENUM BUILT-UP METAL 67-11 M11-80643
IMPACT STRENGTH OF CAST TOOLS MADE OF R5M2F2 HIGH-SPEED TOOL STEEL 67-12 M17-81778

WEAR, COOLING EFFECTS
CONDITIONS LEADING TO FAILURE OF CAST IRON BRAKES 67-05 M17-69141

WEAR, HEATING EFFECTS
THE INFLUENCE OF HEAT TREATMENT FACTORS ON THE WEAR RESISTANCE OF DIES 67-06 M17-71594
THE STUDY ON SALT BATH NITRIDING FOR STEELS. PT. 2. FATIGUE STRENGTH AND WEAR RESISTANCE 67-09 M17-76685
INFLUENCE OF SOAKING TIME PRIOR TO QUENCHING ON THE WEAR RESISTANCE OF MANGANESE STEEL G13L CASTINGS 67-09 M17-78077
INFLUENCE OF HEAT TREATMENT ON THE WEAR RESISTANCE OF CEMENT MILL GRINDING BALLS 67-12 M17-81883

WEAR, RADIATION EFFECTS
WEAKENING EFFECT OF NEUTRON IRRADIATION ON CAST IRON 67-08 M17-74549

WEAR, STRESS EFFECTS
THE FRICTION OF CLEAN CRYSTAL SURFACES 67-07 M17-73497

WEAR, TEMPERATURE EFFECTS
ON THE TEMPERATURE DISTRIBUTION IN ORTHOGONAL MACHINING 67-06 M08-71555
THE EFFECT OF HOT-SPOT TEMPERATURES ON THE UNLUBRICATED WEAR OF STEEL 67-10 M17-78554

WEAR RESISTANCE
SEE WEAR

WEAR TESTS
SEE ALSO AMSLER WEAR TEST
INFLUENCE OF STRUCTURE AND SUBSTRUCTURE OF MAGNESIUM CAST IRON ON ITS WEAR RESISTANCE 67-01 M17-57470
EFFECT OF COOLANTS ON THE MICROSTRUCTURE OF THE SURFACE LAYERS OF CAST-IRON RUBBING PAIRS 67-01 M17-57999
USE OF RADIOACTIVE TRACERS IN STUDYING WEAR OF GRINDING BALLS MADE OF NI-HARD CHROMIUM NICKEL CAST IRON 67-01 M17-58371
STUDY ON THE SEIZURE PHENOMENA IN FRICTION OF METAL 67-01 M17-58547
THE STRUCTURE OF 18-4-1 HIGH-SPEED STEEL AND ITS INFLUENCE ON THE QUALITY OF CUTTING TOOLS 67-01 M19-57607
METHOD OF TESTING REFRACTORY MATERIALS FOR PUSHER FURNACES 67-02 M07-62068
STUDY OF THE MACHINABILITY OF SCREW STOCK STEELS BY MEANS OF RADIOACTIVE TOOLS 67-02 M08-60656
ANTIFRICTION PROPERTIES OF BORON NITRIDE DURING DRY FRICTION IN A GASEOUS MEDIUM AND AT LOW TEMPERATURES 67-02 M09-61708
LABORATORY INVESTIGATION OF THE WEAR RESISTANCE OF WHEEL STEEL OF DIFFERENT CHEMICAL COMPOSITIONS AND HARDNESSES 67-02 M17-59581
TOOL WEAR IN THE MACHINING OF STEEL MATERIALS 67-02 M17-59616
POSSIBLE APPLICATIONS FOR HIGHLY WEAR-RESISTANT CUTTING MATERIALS 67-02 M17-59617
METAL WEAR AND RESEARCH METHODS 67-02 M17-59905
WEAR RESISTANCE OF ISOTHERMALLY QUENCHED NODULAR CAST IRON 67-02 M17-61014
EFFECT OF OVERHEATING OF IRON ON WEAR RESISTANCE OF CASTINGS 67-02 M17-61236
STUDY OF MATERIAL FOR UNLUBRICATED ROLLING PARTS FOR HIGH-TEMPERATURE SERVICE 67-02 M17-61998
WEAR OF STEEL IN LUBRICATING OIL CONTAINING ABRASIVE PARTICLES 67-03 M17-65198
MOLYBDENUM DISULPHIDE DEPOSITS--THEIR FORMATION AND CHARACTERISTICS ON STEEL BALLS 67-03 M17-65600
TESTING FOR WEAR DURING IMPACT AGAINST ABRASIVE SURFACE 67-03 M17-65611
INFLUENCE OF SOME TECHNOLOGICAL FACTORS ON WEAR OF PERICLASE-SPINEL BRICK IN OXYGEN CONVERTERS 67-04 M04-66585
THE RESISTANCE AND LIFE OF BLADES FOR HOT SAWING OF METAL 67-04 M08-66629
WEAR RESISTANCE AND FRICTION OF QUENCHED AUSTENITIC MANGANESE-CONTAINING CAST IRON 67-04 M17-66455
INVESTIGATION OF THE JET-STREAM WEAR IN BUILT-UP METAL 67-04 M17-66569
STUDY OF THE DURABILITY OF BUILT-UP METAL DURING CONTACT-IMPACT LOADING 67-04 M17-66570
ALLOY CAST IRON 67-04 M17-66862
RESISTANCE TO CAVITATION AND MECHANICAL PROPERTIES OF METALS 67-04 M17-66870
TESTING BUILT-UP METAL FOR WEAR IN A STREAM OF DUST-FILLED GAS AT HIGH TEMPERATURES 67-04 M17-67092
INFLUENCE OF SUPERHEATING THE MOLTEN IRON ON THE WEAR RESISTANCE OF CASTINGS 67-04 M17-68097
ELECTRODEPOSITION OF RHODIUM AND RUTHENIUM FOR SLIP-RING SURFACES 67-05 M12-68826

EVALUATION OF THE WEAR RESISTANCE OF METALS
67-05 M17-68408
RESISTANCE TO HYDRAULIC ABRASION OF 10KH15N4G4D2L STAINLESS STEEL OF THE TRANSITION CLASS
67-05 M17-68454
STUDY ON THE WEAR OF CASTING AL ALLOYS. PT. 1. ON THE WEAR CHARACTERISTICS 67-05 M17-68888
STUDY ON THE WEAR OF CASTING AL ALLOYS. PT. 2. ON THE FRICTIONAL CHARACTERISTICS
67-05 M17-68889
FRICTION AND WEAR TESTING UNDER HIGH TEMPERATURE OF CAST AND OTHER METALS 67-05 M17-68953
ANTIFRICTION PROPERTIES OF SOME STRUCTURAL MATERIALS 67-05 M17-69015
INFLUENCE OF DEFORMATION AND SUBSEQUENT RECRYSTALLIZATION-FREE ANNEALING ON CAVITATION RESISTANCE OF 1KH18N9T STAINLESS STEEL
67-05 M17-69018
SPECIAL FEATURES OF THE EFFICIENCY OF POWDERED METAL ANTIFRICTION COMPOSITES EXPOSED TO DRY AND LIQUID FRICTION 67-05 M17-69050
INVESTIGATION OF THE STRUCTURE OF SURFACE LAYERS OF G13 STEEL IN DIFFERENT FRICTION CONDITIONS
67-05 M17-69303
FRETTING CORROSION OF METALS 67-05 M18-69147

WEAR TESTS
THE FIGHT AGAINST WEAR. HARD SURFACING ALLOYS IN
THE FIGHT AGAINST WEAR. HARD SURFACING ALLOYS IN THE GLASS INDUSTRY
THE GLASS INDUSTRY 67-05 M20-69359
DEVELOPMENT AND INVESTIGATION OF FRICTION CERMETS FOR SHOCK ABSORBERS 67-06 M09-70769
STABILITY OF REFRACTORY COMPOUNDS IN FUSED BASALT
67-06 M09-71468
CERMET PARTS OF VANE DOUBLE-ACTING MODEL G12-2 PUMP
67-06 M09-71469
NEW HIGH-EFFICIENCY ELECTRODES--TOOLS FOR SPARK MACHINING MADE OF CERMET CHIPS
67-06 M09-72325
RELIABILITY AND LIFE OF RECLAIMED CRANKSHAFTS OF TRACTOR MOTORS 67-06 M11-72310
MECHANIZED HARD SURFACING OF THE IMPELLERS OF A SUCTION DREDGE 67-06 M11-72311
THE RESISTANCE OF TITANATED CARBON STEEL TO EROSION IN WATER 67-06 M12-71117
THE CONTACT ENDURANCE OF BALL BEARING STEEL
67-06 M17-70095
ABRASIVE-RESISTANT ALLOYS FOR LINING THE PLATES OF ROD MILLS 67-06 M17-70318
A BRONZE ALLOY FOR ELECTRIC TRAIN SLIP RING COMPONENTS 67-06 M17-70349
STUDY OF ATOMIC SEPARATION OF COPPER IN THE ELECTROLYTIC CHROMIUM-BRONZE COUPLE
67-06 M17-70377
DEPENDENCE OF THE COEFFICIENT OF FRICTION AND WEAR RESISTANCE OF COPPER-BEARING MODIFIED CAST IRONS ON MECHANICAL PROPERTIES 67-06 M17-70729
INFLUENCE OF THE STRUCTURE AND SUBSTRUCTURE OF MAGNESIUM-TREATED IRON ON ITS WEAR RESISTANCE
67-06 M17-70758
INVESTIGATION OF PHASE AND STRUCTURAL CHANGES IN THE SURFACE LAYERS OF FRICTION PAIR MATERIALS. PT. 1. METALLOGRAPHIC ANALYSIS AT OPTICAL AND SUPEROPTICAL MAGNIFICATIONS 67-06 M17-70768
EFFECT OF AN ELECTRIC FIELD ON THE CAVITATION DISINTEGRATION OF METALS 67-06 M17-70937
THE INFLUENCE OF SUBSTRATE HARDNESS ON THE FORMATION AND ENDURANCE OF MOLYBDENUM DISULPHIDE FILMS 67-06 M17-71030
THE INFLUENCE OF THERMAL EXPANSION ON THE FRICTION AND WEAR PROCESS 67-06 M17-71032
IMPACT WEAR TESTS ON STEEL 67-06 M17-71512
INCREASING THE LIFE OF PARTS BY MULTIELECTRODE DEPOSIT WELDING 67-07 M11-72741
WEAR PHENOMENA OF MACHINE SLIDE GUIDES
67-07 M17-72835
A NEW METHOD OF STUDYING CAVITATION WEAR
67-07 M17-72870
WEAR MECHANISM OF THE SURFACE OF CU-ZN METAL GROUP IN THE PRESENCE OF MERCURY AND ULTRASONIC VIBRATIONS 67-07 M17-73162
KRYPTONATES.. A NEW TECHNIQUE FOR THE DETECTION OF WEAR 67-07 M19-74027
INCREASING THE LIFE OF REFRACTORIES IN ROTARY TUBULAR FURNACES 67-08 M05-76237
INFLUENCE OF THE ELECTROSPARK ALLOYING ON HARDNESS AND WEAR RESISTANCE OF METALLIC SURFACES
67-08 M12-75428
IMPROVING THE WEAR RESISTANCE OF PISTON RINGS BY PLASMA METALLIZING 67-08 M12-75429
METHOD OF WEAR TESTING WITH IMPACT AGAINST AN ABRASIVE SURFACE 67-08 M17-74536
WEAR RESISTANCE OF SINTERED INSERTS FOR BALL PINS OF AN AUTOMOBILE STEERING SYSTEM
67-08 M17-75431
DEVICE AND METHOD FOR INVESTIGATION OF THE ANTIFRICTION PROPERTIES OF SOLID LUBRICANTS
67-08 M17-75439
INFLUENCE OF FRICTION CONDITIONS ON THE LATTICE CONSTANT OF THE GAMMA-PHASE DURING THE WEAR OF AUSTENITIC MANGANESE CAST IRON
67-08 M17-76009
PERFORMANCE OF HARD SURFACED BELLS OF BLAST FURNACES 67-09 M11-78127
NEW MATERIALS FOR COMPRESSOR PISTON RINGS
67-09 M17-77956
TESTING OF DEPOSITED METAL FOR WEAR IN A HIGH-TEMPERATURE GAS FLOW CONTAINING DUST
67-09 M17-78072
MODELING THE WEAR TESTS OF GEARS
67-10 M17-79208
THE RELIABILITY AND LIVES OF BUILT UP CRANKSHAFTS FOR VEHICLE AND TRACTOR ENGINES
67-11 M11-81582
BUILDING UP THE ROTORS OF SUCTION DREDGERS WITH WEAR-RESISTANT METAL 67-11 M11-81583
INFLUENCE OF SULFIDIZING ON FRICTION AND WEAR OF IRON-GRAPHITE MATERIALS 67-11 M17-80588
THE INFLUENCE OF VAPORS OF ORGANIC LIQUIDS AND OF STEAM ON THE SLIDING FRICTION SYSTEM OF MOS2 STEEL 67-11 M17-80868
RESISTANCE TO WEAR AND RUNNING IN OF TEMPERED AUSTENITIC MANGANESE CAST IRON
67-11 M17-80996
STABILITY OF REFRACTORY COMPOUNDS IN FUSED BASALT
67-12 M09-82789
SINTERED COMPONENTS OF G12-2 DOUBLE-ACTING VANE PUMPS 67-12 M09-82790
PROLONGING THE USEFUL LIFE OF COMPONENTS BY MULTI-ELECTRODE HARDFACING 67-12 M11-82320
EFFECT OF ANNEALING ON HARDNESS AND ABRASIVE WEAR OF AUSTENITIC MANGANESE CAST IRON
67-12 M17-81840
INFLUENCE OF HEAT TREATMENT ON THE WEAR RESISTANCE OF CEMENT MILL GRINDING BALLS
67-12 M17-81883
NEW METHOD OF INVESTIGATING CAVITATION WEAR
67-12 M17-82178
ELASTIC DEFORMATION OF RUBBING SURFACES
67-12 M17-82434
DYNAMIC FRICTION MEASURED FAST, ACCURATELY
67-12 M17-83175

WEAR TESTS, TEMPERATURE EFFECTS
ANTIFRICTION PROPERTIES OF BORON NITRIDE DURING DRY FRICTION IN GASEOUS MEDIA AND AT LOW TEMPERATURES 67-08 M17-75853

WEAR TESTS, ULTRASONICS
CHANGES IN THE WEAR RESISTANCE OF GRADE R18 STEEL THROUGH INTRODUCING ULTRASONIC VIBRATIONS
67-10 M17-78380

WEATHERING
THE SO2-REPELLENT ACTION OF AL EXPOSED TO THE INFLUENCE OF THE ATMOSPHERE 67-06 M18-71985
HIGH-STRENGTH WELDABLE STEEL WITH INCREASED WEATHER-RESISTING PROPERTIES 67-07 M18-74017
PORCELAIN ENAMEL ON ALUMINUM 67-09 M18-77909

WEAVING
STEEL CABLES WITH METALLIC CORES
67-06 M17-71270

WEIGHING
SEE WEIGHT MEASUREMENT

WEIGHT MEASUREMENT
LARGE STIFFENED CYLINDER WEIGHT--COST COMPARISONS BETWEEN BE-38 PER CENT AL AND OTHER MATERIALS
67-06 M20-70613
MEASURING, INDICATING AND RECORDING IN HEAVY AND MEDIUM PLATE ROLLING MILLS 67-08 M19-76288
PROBLEMS ASSOCIATED WITH WEIGHING IN STEELMAKING SHOPS 67-09 M19-76420
CONTACTLESS WEIGHT DETERMINATION DURING THE ROLLING OF TUBES ACCORDING TO THE PILGER METHOD
67-09 M19-77386
CONTINUOUS WEIGHING OF MOLTEN STEEL IN THE LADLE DURING POURING OF INGOTS. PT. 1. EQUIPMENT
67-10 M04-78679

WELD CLADDING
HOW TO CONTROL DILUTION IN WELD OVERLAYS. PT. 1 67-01 M12-58759

WELD CLADDING

NEW TECHNIQUE IN OVERLAY VESSEL CONSTRUCTION 67-01 M12-58766
BUILDUP OF BABBITT LINING DURING REPAIR OF LARGE BEARINGS 67-02 M12-61274
SPOTLIGHT ON ARC WELDING, PT. 29. THE BROOK WELDING CO. LTD 67-03 M11-65168
SUBMERGED ARC WELDING WITH STRIP ELECTRODES 67-03 M11-65190
AUTOMATIC SURFACE CLADDING WITH STRIP ELECTRODES 67-03 M12-65814
SITE WELDING ON 20K STEEL PLATE CLAD WITH KH17N13M2T STEEL 67-04 M11-66477
METHODS OF LARGE BEARINGS BY SURFACING THE WHITE METAL LINING 67-05 M12-68274

WELD DEFECTS

A RATIONAL APPROACH TO STANDARDS FOR WELDED CONSTRUCTION 67-01 M19-58591
CONTRIBUTION TO THE CO2 WELDING OF PLATES HAVING A PRODUCTION COATING OF PAINT 67-02 M11-59039
REPORTS ON THE BEHAVIOR OF TUNGSTEN ELECTRODES IN TIG WELDING 67-02 M11-59758
EXPERIENCE GAINED IN THE AVOIDANCE OF DEFECTS IN THE TIG AND MIG WELDING OF AL 67-02 M11-59814
REPAIR OF ALUMINIUM PATTERNS BY ARGON ARC WELDING 67-02 M11-60015
EFFECTS OF HIGH-FREQUENCY CURRENT IN WELDING ALUMINUM ALLOY 6061 67-02 M11-61581
NONDESTRUCTIVE MATERIAL TESTING IN THE PRODUCTION OF FUEL ELEMENTS 67-02 M16-60022
POSSIBILITIES OFFERED BY TESTS ON SLICED SECTIONS TO STUDY THE WELDABILITY OF THICK STEEL PLATES 67-02 M17-59756
THE PRODUCTION OF REPRODUCIBLE WELDING DEFECTS AND THEIR EFFECT ON FATIGUE STRENGTH 67-02 M17-59812
CRACKING AND FERRITE CONTENT IN AUSTENITIC STAINLESS WELDS 67-04 M11-66249
THE EFFECTS OF NICKEL ON WELDS CONTAINING 20-22 PER CENT CHROMIUM 67-04 M11-66520
EXPERIENCES IN AVOIDING DEFECTS IN THE TIG AND MIG WELDING OF AL 67-04 M11-66883
INFLUENCE OF SPECIMEN TYPE AND WELDING CONDITIONS ON RESISTANCE OF METAL TO HOT CRACKING 67-04 M11-67002
MICROSTRUCTURAL STUDIES OF RENE 41 SIMULATED WELD HEAT-AFFECTED ZONES 67-04 M11-67630
CHANGE IN HYDROGEN CONTENT OF WELD METAL IN RELATION TO SEASON AND DIAMETER OF ELECTRODES 67-04 M11-67804
PREPARING THE METAL SURFACE FOR SEMIAUTOMATIC SUBMERGED ARC WELDING OF FILLET WELDS 67-04 M11-67812
CRACKS AND MICROFISSURES--WELD DEPOSITS 67-04 M17-67493
PREVENTING OXIDE INCLUSIONS IN WELDED JOINTS OF AMG6 ALLOY 67-05 M11-69415
STUDY OF THE BEHAVIOR OF WELDED JOINTS INCORPORATING DESIGN DEFECTS UNDER UNIAXIAL TENSION LOADING 67-05 M17-68785
VARIATIONS IN WELD METAL HYDROGEN CONTENTS 67-06 M11-70304
SURFACE PREPARATION OF METAL FOR THE SEMI-AUTOMATIC SUBMERGED ARC WELDING OF CORNER JOINTS 67-06 M11-70312
STRUCTURAL DEFECTS OF LAYERS APPLIED TO GRAY CAST IRON CASTINGS BY ELECTRIC ARC OVERLAY WELDING 67-06 M11-70362
WELDING METALLURGY OF CAST AUSTENITIC MATERIALS 67-06 M11-70536
FAILURES OF HEADER SUPPORT BRACKET ASSEMBLIES 67-06 M11-70538
FABRICATION OF PIGTAIL ASSEMBLIES 67-06 M11-70539
UNDERBEAD AND TOE CRACKS 67-06 M11-70700
AVOID CONFUSION OF ELECTRODES 67-06 M11-71577
WELD DEFECTS--THEIR ORIGIN AND PREVENTION. PT. 1 67-06 M11-72057
WELDING OF HIGH-PRESSURE PIPELINES WITHOUT INSERT RINGS 67-06 M11-72314
DISCUSSION ON CORRELATION OF NI-CR-FE ALLOY WELD METAL FISSURING WITH HOT DUCTILITY BEHAVIOR 67-06 M17-70137
A STUDY OF CRACKING DURING WELDING OF ALUMINUM ALLOYS 67-06 M17-71632
TWIN PROBES TRIM MARGIN OF ERROR 67-06 M19-71052
NEW TUBE TESTING EQUIPMENT 67-06 M19-71820
WELD SURFACE DEFECTS--STRIKES, PITS AND SPATTER 67-07 M11-73306
ELECTRON BEAM WELDING OF FUEL ELEMENTS FILLED WITH UO2-PUO2 67-07 M11-73467
QUALITY IN ELECTRON BEAM WELDING 67-07 M11-73887
SEMI-AUTOMATIC CO2 WELDING OF PIPELINES 67-07 M11-73888
STUDIES IN MULTIPLE PROJECTION WELDING 67-07 M11-73890
DETECTION BY RADIOGRAPHY AND ULTRASONICS OF LACK FUSION IN WELDS IN PIPELINES MADE BY THE CO2 PROCESS 67-07 M19-73889
CONSIDERATIONS FOR ESTABLISHING ULTRASONIC TEST ACCEPTANCE STANDARDS 67-07 M19-74028
INFLUENCE OF SPECIMEN TYPE AND WELDING CONDITIONS ON THE HOT CRACK RESISTANCE OF WELD METAL 67-08 M11-74761
EXAMINATION OF ELECTRON BEAM WELDS IN 18 PER CENT NI/CO/MO MARAGING STEEL SHEET 67-08 M11-75751
A MULTIBLE TEST APPROACH TO THE PREDICTION OF WELDMENT CRACKING 67-08 M11-76070
THE POTENTIAL DANGER OF CENTRIFUGE BASKETS 67-08 M17-74510
EFFECT OF ADDITIONAL ELEMENTS ON WELD CRACK SUSCEPTIBILITY OF AL-ZN-MG ALLOYS 67-08 M17-75768
ULTRASONICS RECORDS WELD FLAWS 67-08 M19-74366
NDT APPLIED TO PIPELINE CONSTRUCTION AND OPERATION IN THE UNITED STATES. PT. 3 67-09 M11-77101
POROSITY IN ARGON ARC WELDING THIN SHEET WELDED JOINTS IN KH18N10T STEEL 67-09 M11-77610
SOME REASONS FOR DEFECTS IN RESISTANCE WELDED RAILS 67-09 M11-78120
THE KSLA HOT CRACK TESTING APPARATUS 67-09 M11-78151
EFFECT OF SPECIMEN LOADING WHEN TESTING STEELS FOR SUSCEPTIBILITY TO COLD CRACKING DURING WELDING 67-09 M17-77604
A RATIONAL APPROACH TO STANDARDS FOR WELDED CONSTRUCTION. PT. 3 67-09 M19-77543
THE ELIMINATION OF OXIDE INCLUSIONS FROM WELDED JOINTS IN AMG6 ALLOY 67-10 M11-78519
DETERMINATION OF THE NOTCH EFFECT OF WELD DEFECTS IN FATIGUE TESTING 67-10 M17-78778
STUDY ON SLIGHT LEAKAGE FROM A REACTOR CONTAINMENT VESSEL. REPORT OF THE SUBCOMMITTEE ON SLIGHT LEAKAGE 67-11 M11-80497
POROSITY OF WELDS MADE BY BASIC POWDER WIRE 67-11 M11-80638
WELDING HIGH PRESSURE PIPING WITHOUT PERMANENT BACKING RINGS 67-11 M11-81586
HOW DANGEROUS ARE WELD DEFECTS 67-11 M17-81197
FORMATION OF HOT CRACKS WHEN FINISHING ARC WELDING AT AN INCREASED SPEED 67-12 M11-81909
A RATIONAL APPROACH TO STANDARDS FOR WELDED CONSTRUCTION. PT. 3 67-12 M11-82660
EFFECT OF DELTA FERRITE ON THE HOT CRACKING OF STAINLESS STEEL 67-12 M11-82821
EFFECTS OF CONSTITUTIONAL LIQUATION IN 18-NI MARAGING STEEL WELDMENTS 67-12 M11-82822
AUTOMATIC FLAW DETECTION OF WELDED JOINTS IN TUBES 67-12 M19-81920

WELD DEFECTS, COMPOSITION EFFECTS

NITROGEN IN NONALLOYED FERRITIC METAL 67-04 M17-66568
THE PROPERTIES OF CAST 25 PER CENT CHROMIUM-20 PER CENT NICKEL AUSTENITIC STEELS IN RELATION TO THEIR USE AT ELEVATED TEMPERATURES 67-06 M17-70531
NITROGEN IN UNALLOYED FERRITIC METAL 67-07 M17-73425

WELD DEFECTS, COOLING EFFECTS

ESTABLISHMENT OF ARC WELDING PROCEDURE OF STRUCTURAL STEELS 67-04 M11-67586

WELD DEFECTS, IMPURITY EFFECTS

FISH EYE FORMATION IN UNALLOYED STRUCTURAL STEELS 67-08 M17-74447

WELD DEFECTS, TEMPERATURE EFFECTS

EFFECT OF THE INITIAL TEMPERATURE OF THE BASE METAL ON PROPERTIES OF THE WELDED JOINT 67-11 M11-80636

WELD DEPOSITED COATINGS

A NEW TYPE OF ELECTRODE FOR DEPOSITING CAST MANGANESE-ALUMINUM BRONZE 67-01 M12-57158
AUTOMATIC BUILDUP UNDER OXIDIZING FLUX OF STATIONARY SCREEN GRATES OF A SINTERING MACHINE 67-01 M12-58213
NEW TECHNIQUE IN OVERLAY VESSEL CONSTRUCTION

67-01 M12-58766
HARD FACING WITH SINTERED HARD-ALLOY ELECTRODES
67-02 M12-58944
FACTORS AFFECTING THE FERRITE CONTENT AND ITS DETERMINATION IN WELD DEPOSITS OF COATED AUSTENITIC STAINLESS ELECTRODES
67-03 M11-65815
CLADDING METHODS USED BY AN OIL COMPANY FOR BASE METAL PROTECTION 67-04 M12-66644
WEAR-RESISTANT BUILDUP OF PIECES OF BUCKET EXCAVATOR CHAINS 67-04 M12-66813
THE EFFECTS OF COMPLEX FERROALLOYS IN ELECTRODE COATINGS ON THE DEPOSITED METAL
67-08 M12-75918
PERCUSSION WELDING 67-10 M11-79960

WELD DEPOSITED COATINGS, CRYSTAL GROWTH
INFLUENCE OF FERRITE ON CRYSTALLIZATION OF AUSTENITIC DEPOSIT WELDED METAL AND FORMATION OF HOT CRACKS 67-06 M11-71641
INFLUENCE OF FERRITE ON THE CRYSTALLISATION OF AUSTENITIC WELD METAL AND THE FORMATION OF HOT CRACKS DURING WELDING 67-10 M11-79608

WELD DEPOSITED COATINGS, MECHANICAL PROPERTIES
STUDY ON PREVENTIVE METHOD FOR WELD CRACKS OF 405 CLAD STEEL BY 13 CR STAINLESS STEEL ELECTRODE
67-01 M11-58698
STUDY ON HOT-CRACKING OF AUSTENITIC STAINLESS STEEL IN OVERLAY WELDING 67-01 M17-58697
FACTORS AFFECTING THE HYDROGEN CONTENT OF WELD DEPOSIT 67-02 M17-60914

WELD DEPOSITED COATINGS, MICROSTRUCTURE
EFFECT OF COMPLEX FERROALLOYS IN THE COATINGS OF ELECTRODES ON THE PROPERTIES OF BUILTUP METAL
67-04 M12-66814

WELD DEPOSITED COATINGS, WEAR
BUILDING UP EXCAVATOR BUCKET LINE COMPONENTS WITH WEAR-RESISTANT METAL 67-08 M12-75917

WELD METAL
DEVELOPMENT OF FILLER METALS FOR WELDING AL-ZN-MG ALLOY 7039 67-01 M11-58776
HOW TO CONTROL DILUTION IN WELD OVERLAYS. PT. 2
67-02 M11-61816
THE EFFECTS OF NICKEL ON WELDS CONTAINING 20-22 PER CENT CHROMIUM 67-04 M11-66520
EFFECT OF EDGE PREPARATION ON THE AMOUNT OF PARENT METAL IN THE WELD METAL 67-04 M11-67811
EFFECT OF EDGE PREPARATION ON THE PROPORTION OF PARENT METAL IN THE WELD METAL
67-06 M11-70311

WELD METAL, IMPURITIES
INFLUENCE OF ALLOYING ELEMENTS ON RESIDUAL CONTENT OF NITROGEN IN OPEN ARC WELDED METAL
67-06 M11-72303
INFLUENCE OF THE TEMPERATURE OF METAL DROPS AND KINETICS OF ELECTRODE FUSION ON NITROGEN SATURATION OF WELD METAL 67-06 M11-72304

WELD METAL, INCLUSIONS
NONMETALLIC INCLUSIONS IN WELD METAL
67-09 M19-77975

WELD METAL, MECHANICAL PROPERTIES
INFLUENCE OF ALLOYING ELEMENTS ON MECHANICAL PROPERTIES OF BASIC WELD DEPOSITED METAL. PT. 2. STRESS RELIEF ANNEALING 67-01 M17-57911
THE NOTCH TOUGHNESS OF MILD STEEL AND LOW ALLOY WELD METALS 67-02 M17-60909
MECHANICAL PROPERTIES OF SEAMS MADE BY VARIOUS METHODS OF MULTILAYER WELDING
67-04 M11-66438
CHARACTERISTICS OF PLASTIC DEFORMATION IN NON-FUSION WELDING 67-04 M11-66461
TST-23 ELECTRODES FOR WELDING KH16N14V2BR TYPE STEELS 67-04 M11-66466
DEVELOPMENT OF 170/200 KSI YIELD STRENGTH NI-CR-MO-CO WELD METALS FOR CONSTRUCTIONAL STEELS
67-04 M11-67034
ESTABLISHMENT OF ARC WELDING PROCEDURE OF STRUCTURAL STEELS 67-04 M11-67586
STRESS CONCENTRATION IN BUTT WELDS
67-04 M17-66429
THE EFFECT OF DELTA-FERRITE ON THE IMPACT STRENGTH OF THE WELD METAL IN JOINTS IN TRANSITIONAL STEELS 67-04 M17-66463
COVERED ELECTRODES. PT. 1 67-05 M11-68310
WELD METAL AND HEAT AFFECTED ZONE PROPERTIES OF ELECTROSLAG WELDS IN 15KH2MF STEEL
67-05 M17-68270
DISCUSSION ON CORRELATION OF NI-CR-FE ALLOY WELD METAL FISSURING WITH HOT DUCTILITY BEHAVIOR
67-06 M17-70137
THE MECHANICAL PROPERTIES OF MULTI-PASS WELDS
67-07 M11-72697
STRESS CONCENTRATION IN BUTT JOINTS
67-07 M17-72688
CRACKS AND MICROFISSURES--BASE METALS
67-09 M11-77711
THE KSLA HOT CRACK TESTING APPARATUS
67-09 M11-78151
ELEVATED TEMPERATURE PROPERTIES OF ALUMINUM BRONZE --ALLOY D-- PARENT METAL, ROD AND WELD METAL
67-09 M17-76360
EFFECT OF FERRITE ON PROPERTIES OF AUSTENITIC WELD METAL 67-09 M17-77601
A STATISTICAL ANALYSIS OF ALUMINUM WELDS TESTED AT CRYOGENIC TEMPERATURES 67-10 M17-78477
CHOOSING BUILT-UP METAL WHICH IS RESISTANT TO SHOCK-LOADING 67-11 M11-80553

WELD METAL, MICROSTRUCTURE
SOLIDIFICATION AND SEGREGATION IN WELDING OF BINARY ALLOYS 67-06 M11-70135
CONSIDERATIONS ON THE NATURE OF THE MICROPARTICLES IN MILD STEEL WELD METAL 67-09 M13-76361

WELD METAL, PHASES /STATE OF MATTER/
STRUCTURE OF AUSTENITIC MN-AL WELD METAL
67-06 M13-72302
TRANSFORMATIONS AND REACTIONS IN THE TRANSFORMATION ZONE DURING WELDING AND OXYGEN CUTTING
67-09 M14-77976
THE STRUCTURE OF AUSTENITIC MANGANESE.. ALUMINIUM WELD METAL 67-11 M13-81574

WELD METAL, THERMAL PROPERTIES
TEMPERATURE DISTRIBUTION IN THE MOLTEN POOL IN PULSED ARC WELDING OF AMG6 ALLOYS WITH CONSUMABLE ELECTRODE 67-08 M11-75418
TEMPERATURE DISTRIBUTION IN THE MOLTEN METAL POOL DURING THE VIBROARC WELDING OF AMG6 ALLOY WITH A CONSUMABLE ELECTRODE 67-12 M11-82039

WELDABILITY
TITANIUM FIXTURES--THEIR CONSTRUCTION AND USE
67-01 M01-58122
BETHLEHEM INSTALLS NEW PLATE QUENCH AND TEMPER FACILITY 67-01 M10-58495
ON THE WELDING OF STEELS WITH LIMITED WELDABILITY. EXAMPLES FOR MATERIALS PROBLEMS
67-01 M11-58114
WELDABILITY OF HEAT-TREATED LOW-ALLOY 12G2SMF AND 12KHG2SMF STEELS 67-01 M17-57523
PROPERTIES OF STEEL PLATES --SUMITEN 60-- HAVING TENSILE STRENGTH OF 60 KG/MM2
67-01 M17-58248
STEEL PLATE FOR BOILERS 67-01 M17-58250
RESULTS OF FATIGUE TESTS ON WELDABLE ALUMINIUM ALLOYS 67-01 M17-58297
BEHAVIOR OF 9 PER CENT NICKEL STEEL IN REACTOR ENVIRONMENT 67-01 M17-58350
HICON 36 AND HICON 40 --HIGH YIELD STRUCTURAL STEELS-- 67-01 M17-58568
HIGH-STRENGTH WELDABLE 13 PER CENT CHROMIUM CASTING STEEL 67-01 M17-58619
WELDING OF COPPER AND COPPER ALLOYS IN THE CONSTRUCTION OF VESSELS AND OTHER EQUIPMENT
67-02 M11-59830
STAINLESS STEEL WELDS 67-02 M11-60590
PROGRESS IN WELDING AND THE PROBLEM OF WELDING TECHNOLOGISTS IN AUSTRALIA 67-02 M11-60913
A METHOD OF CALCULATING THE WELDABILITY --COLD WELDING-- OF METALS 67-02 M11-61040
HOW TO CONTROL DILUTION IN WELD OVERLAYS. PT. 2
67-02 M11-61816
POSSIBILITIES OFFERED BY TESTS ON SLICED SECTIONS TO STUDY THE WELDABILITY OF THICK STEEL PLATES
67-02 M17-59756
PRESENT USE OF HIGH-STRENGTH STEEL FOR BRIDGE AND PENSTOCK STRUCTURES 67-02 M17-59965
PROBLEMS IN WELDING HIGH-STRENGTH STEELS
67-02 M17-59966
MEDIUM AND HIGH STRENGTH ALUMINUM ALLOYS AND THEIR BEHAVIOR AT LOW TEMPERATURE 67-02 M17-60609
WELDABILITY OF HEAT TREATED LOW ALLOY 12G2SMF AND 12KHG2SMF STEELS 67-02 M17-61142
APPLICATION OF THE VARESTRAINT TECHNIQUE TO THE STUDY OF WELDABILITY 67-02 M17-61582
SPECIFY SURFACE FINISH, RESISTANCE WELDS IMPROVE
67-03 M11-65359
THE ELECTROCHEMICAL DEPOSITION OF POLYMERIZATION PRODUCTS ON METAL 67-03 M12-65193
HIGHLY ALLOYED STAINLESS SHEET SHOWN TO RESIST DILUTE HOT ACID IMPINGEMENT IN PICKLING BOOTH
67-03 M18-65470

WELDABILITY

ACCEPTANCE TESTING OF LOW-CARBON AND LOW-ALLOY STRUCTURAL STEELS FOR WELDABILITY 67-04 M11-66436
RESISTANCE WELDING OF A VAD23 ALLOY 67-04 M11-66830
THE COMPARATIVE WELDABILITY OF REFRACTORY METAL ALLOYS 67-04 M11-67033
TECHNIQUES FOR WELDING 7039 ALUMINUM WITH VARIOUS INERT GAS PROCESSES 67-04 M11-67035
WELDABILITY OF HIGH-STRENGTH ALLOYS OF THE AL-ZN-MG-CU SYSTEM 67-04 M11-67148
EFFECT OF INDUSTRIAL MELTING TECHNOLOGY ON MECHANICAL PROPERTIES OF ELECTROSLAG WELDED STEEL 67-04 M17-67007
WELDABILITY OF THIN PIECES OF AMG6 ALLOY 67-04 M17-67016
BORON-DOPING OF NIMONIC TYPE HEAT RESISTANT NICKEL ALLOYS 67-04 M17-67847
LOW-NICKEL AUSTENITIC KH14G14N3T STEEL 67-04 M17-67976
NICKEL BASE HYDROCHLORIC ACID CORROSION RESISTANT ALLOY CASTING 67-04 M18-67114
ALUMINIUM WELDING BY THE OXY-ACETYLENE PROCESS 67-05 M11-68422
WELDING DESIGN AND PROCESS MANUAL--MAGNESIUM 67-05 M11-68433
WELDING OF 9NI STEEL TANKS FOR THE STORAGE OF LIQUID OXYGEN 67-05 M11-69168
A NEW TYPE OF 13 PER CENT CR CAST STEEL WITH HIGH PROPERTIES AND IMPROVED WELDABILITY 67-05 M17-68782
EFFECT OF PHOSPHOROUS ON THE WELDABILITY OF HIGH-YIELD POINT STEELS 67-05 M17-69169
DEVELOPMENT OF 3.5 PER CENT NI-CR-MO ULTRA-HIGH STRENGTH STEEL AND ITS WELDABILITY 67-05 M17-69702
WELDABILITY TESTS FOR MILD AND LOW ALLOY STRUCTURAL STEELS 67-07 M11-72695
A RATIONAL APPROACH TO STANDARDS FOR WELDED CONSTRUCTION. PT 1 67-07 M11-73606
FABRICATING PROPERTIES OF GALVANIZED SHEETS 67-07 M17-73235
STRUCTURAL STEEL DEVELOPMENTS IN JAPAN 67-07 M17-73293
HIGH-STRENGTH WELDABLE STEEL WITH INCREASED WEATHER-RESISTING PROPERTIES 67-07 M18-74017
COLUMBIUM AND TANTALUM ALLOY DEVELOPMENT 67-08 M01-74672
PROPERTIES OF COMMERCIAL CASTING ALLOYS 67-08 M06-74809
12G2SMF AND 12KHG2SMF CONSTRUCTION STEEL FOR WELDED STRUCTURES 67-08 M11-76283
INFLUENCE OF THE STEEL-MAKING TECHNIQUE ON THE MECHANICAL PROPERTIES OF ELECTROSLAG WELDED STEEL 67-08 M17-74766
INVESTIGATION OF NIOBIUM CONTAINING STRUCTURAL STEEL 67-08 M17-75772
THE MANUFACTURE AND PROPERTIES OF MOLYBDENUM 67-08 M17-75939
NO. 9--HIDUMINIUM 48. THE WELDABLE HIGH-STRENGTH LIGHT ALLOY 67-09 M01-77300
UNALLOYED TUNGSTEN.. POWDER-METALLURGY MATERIAL 67-09 M09-77325
WELDING A GAS TURBINE CASING IN HIGHLY AUSTENITIC HEAT RESISTING STEEL 67-09 M11-77239
INFLUENCE OF MICROSEGREGATIONS PRODUCED ON THE HEAT AFFECTED ZONE ON THE WELDABILITY OF HEAT RESISTANT Z3NCT25 SHEET STEEL 67-09 M11-78042
STEELS FOR HOUSING SOLID FUEL ROCKET MOTORS 67-09 M17-77191
APPLICATIONS AND PROPERTIES OF 15-5 PH 67-10 M01-79752
NEW CONCEPTS IN ECONOMY 67-10 M01-79753
TITANIUM CASTINGS 67-10 M06-79093
GRADES 12G2SMF AND 12KHG2SMF STRUCTURAL STEELS FOR WELDED STRUCTURES 67-10 M11-79276
PROBLEMS OF MATERIALS OF WELDED STRUCTURES OF AUSTENITIC HEAT RESISTANT BOILER PLATE STEELS 67-10 M11-79788
HIGH-RESISTANCE STEELS. PT. 2. CONSTRUCTION STEELS OF VERY HIGH RESISTANCE 67-11 M01-80393
RECENT DEVELOPMENTS AND CURRENT PRACTICE IN THE MANUFACTURE OF HIGH-CARBON STEEL WIRE IN SOUTH AFRICA 67-11 M07-81020
POSSIBILITY OF REPAIRING STEEL CASTINGS BY WELDING 67-11 M11-80570
HIGH-TEMPERATURE PROPERTIES OF AN IMPROVED 1 PER CENT CR STEEL 67-11 M17-80260
ON WELCON-2 H CR STEEL WITH HYDROGEN ATTACK RESISTANCE 67-11 M20-81181
PORTEVIN LECTURE--WELDING AND SPECIAL ELECTROMETALLURGY 67-12 M01-83212
CASTING PROPERTIES OF STAINLESS LOW-MAGNETIC HIGH-STRENGTH STEEL 67-12 M06-83027
FURTHER HEAT AFFECTED ZONE STUDIES IN HEAT RESISTANT NICKEL ALLOYS 67-12 M11-82823
WELDABLE, CAST, EASY-TO-MACHINE CARBON STEELS 67-12 M11-83043
NICKEL ALLOY STEEL CASTINGS 67-12 M17-81806
SEMIKILLED STEEL ST.5 GSK WITH IMPROVED WELDABILITY IN PLACE OF KILLED STEEL ST.5K 67-12 M17-81875
LOW CYCLE FATIGUE STRENGTH OF SHIP STRUCTURAL STEELS 67-12 M17-82923
ON THE FACTORS WHICH INFLUENCE THE ABRASION OF CARBON STEELS AT HIGH TEMPERATURES, AND COMPARISON OF THE ABRADED APPEARANCE AT HIGH TEMPERATURE WITH THAT OF ROOM TEMPERATURE. PT. 2. RESEARCH ON THE ABRASION OF STEEL DURING WARM DEFORMATION 67-12 M17-83390
FUNDAMENTAL PROPERTIES OF HIGH STRENGTH STEELS 67-12 M20-82922

WELDABILITY, ALLOYING EFFECTS
THE INFLUENCE OF VANADIUM AND NIOBIUM ON THE MECHANICAL PROPERTIES AND WELDABILITY OF CARBON STEEL. PT. 1. AS ROLLED 67-02 M17-58846
RESIDUALS--MISCHIEVOUS MITES IN STAINLESS 67-03 M17-65490
THE EFFECT OF ALLOYING ELEMENTS ON THE PROPERTIES OF THE WELDABLE HIGH STRENGTH STEEL. PT. 1. THE EFFECT OF ALLOYING ELEMENTS ON THE MECHANICAL PROPERTIES OF NORMALIZED HIGH STRENGTH STEEL. PT. 2. THE EFFECT OF ALLOYING ELEMENTS ON THE HARDENABILITY, MECHANICAL PROPERTIES AND WELDABILITY OF QUENCHED AND TEMPERED HIGH STRENGTH STEEL 67-03 M17-65821
WELDING CHARACTERISTICS OF SILVER AND ITS ALLOYS FOR ELECTRICAL CONTACTS 67-04 M11-67580
EFFECT OF COLUMBIUM ON THE PROPERTIES OF WELDABLE PLAIN CARBON STRUCTURAL STEELS 67-06 M17-71437
WELDING OF COPPER WITH DEEP PENETRATION ELECTRODES 67-08 M11-75360
EFFECTS OF COMPOSITION ON THE HEAT-AFFECTED-ZONE TOUGHNESS OF S
TOUGHNESS OF CONSTRUCTIONAL ALLOY STEELS 67-08 M11-76071
NOTE CONVERNING 13 PER CENT CHROME STEELS 67-08 M17-76234
DEVELOPMENT TRENDS IN HIGH STRENGTH, WELDABLE STRUCTURAL STEELS ALLOYED WITH NB, V, N, TI, ZR AND OTHER ELEMENTS 67-09 M04-77583
ELEVATED TEMPERATURE PROPERTIES OF ALUMINUM BRONZE --ALLOY D-- PARENT METAL, ROD AND WELD METAL 67-09 M17-76360

WELDABILITY, COMPOSITION EFFECTS
TOMORROWS CHALLENGE TO WELDING 67-06 M11-70133
WELDABILITY OF TITANIUM ALLOY SHEETS 6AL-6V-2SN AND 8AL-1MO-1V 67-06 M17-70138
THE PROPERTIES OF CAST 25 PER CENT CHROMIUM-20 PER CENT NICKEL AUSTENITIC STEELS IN RELATION TO THEIR USE AT ELEVATED TEMPERATURES 67-06 M17-70531
PROPERTIES AND APPLICATION OF ALUMINIUM BRONZE 67-08 M01-75032
EFFECT OF DELTA FERRITE ON THE HOT CRACKING OF STAINLESS STEEL 67-12 M11-82821

WELDABILITY, HEATING EFFECTS
RECENT ADVANCES IN HEAT TREATMENT METHODS 67-08 M10-74748

WELDABILITY, IMPURITY EFFECTS
RESIDUALS IN STEEL FOR TUBES 67-07 M07-73078

WELDABILITY, SPECIFICATIONS
BRITISH DEVELOPMENTS IN THE USE OF STEEL TO B.S. 968..1962 IN WELDED CONSTRUCTION 67-01 M11-58524
SPECIFICATIONS FOR CARBON AND LOW-ALLOY STRUCTURAL STEELS WITH GUARANTEED WELDABILITY 67-02 M17-58989

WELDED JOINTS
SEE ALSO BRAZED JOINTS
TEMPORARY STRUCTURAL DEFORMATIONS IN ELECTROSLAG WELDING 67-01 M11-58207
HOW TO CONTROL DILUTION IN WELD OVERLAYS. PT. 1 67-01 M12-58759
WELDED JOINTS BETWEEN FERRITIC AND AUSTENITIC STEELS 67-02 M11-59726

PARTIAL PROJECTIONS CAUSED BY FILLET WELDING ON THE SURFACE OF HULL PLATING 67-02 M11-60041
INVESTIGATION OF THE CAUSES OF HETEROGENEITY IN THE MECHANICAL PROPERTIES OF VERY THICK WELDED JOINTS 67-02 M11-60871
STUDY OF NOTCH-ROOT EMBRITTLEMENT IN WELDMENTS 67-02 M17-60869
WELD PENETRATION CONTROLLED BY INFRARED SENSOR LOOP 67-02 M19-61004
HEAT TREATMENT AS AN AID TO WELDING 67-06 M11-71940
CONDENSER DISCHARGE WELDING OF ALUMINIUM AND ITS ALLOYS BY EMPLOYING INSERTS 67-07 M11-72417
INSPECTION OF SPIRALLY WELDED PIPE 67-07 M19-72705

WELDED JOINTS, BRITTLENESS
EFFECT OF DELTA-FERRITE ON IMPACT STRENGTH OF WELD METAL IN JOINTS OF TRANSITION-CLASS STEELS 67-02 M11-59514
BRITTLE FRACTURE OF LOW-CARBON STEEL WELDS OF 4 TO 8 MM IN THICKNESS 67-02 M17-61243
INFLUENCE OF HEAT TREATMENT ON STRUCTURE AND BRITTLEMENTS OF FUSION ZONE OF PEARLITIC AND MARTENSITIC STEELS 67-06 M11-71644

WELDED JOINTS, CHEMICAL ANALYSIS
FORMATION OF CHEMICAL HETEROGENEITY ON THE FUSION BOUNDARY OF WELDED JOINTS 67-01 M11-58266
THE PROBLEM OF FERRITE DETERMINATION IN AUSTENITIC WELDS 67-02 M19-59968
CHEMICAL HETEROGENEITY IN RESISTANCE WELDED STEEL JOINTS OF LARGE CROSS SECTION 67-12 M19-82627

WELDED JOINTS, COATING
STUDY OF WELDING PRIMERS 67-03 M11-65449

WELDED JOINTS, CORROSION
CORROSION RESISTANCE OF STAINLESS STEEL WELDED JOINTS IN SOME AGGRESSIVE MEDIA 67-01 M18-57535
CORROSION RESISTANCE OF STAINLESS STEEL WELDED JOINTS WITH GAS-ELECTRIC CUTTING OF EDGES 67-01 M18-58278
CORROSION BEHAVIOR OF STEEL WELDMENTS 67-01 M18-58394
AIR-ARC FUSION OF DEFECTIVE PORTIONS OF WELDED JOINTS IN STAINLESS STEELS 67-02 M11-60840
AN ELECTRODE FOR WELDING 18-8 ACID-RESISTANT STEEL 67-02 M11-61054
THE RESISTANCE OF CHROMIUM-NICKEL WELDS TO GAS CORROSION IN AN ATMOSPHERE CONTAINING SULFUR COMPOUNDS 67-02 M11-61057
THE EFFECT OF DESIGN CONSIDERATIONS ON THE CORROSION RESISTANCE OF WELDED JOINTS 67-02 M18-60616
CORROSION RESISTANCE OF WELDED JOINTS IN STAINLESS STEELS 67-02 M18-61154
CORROSION RESISTANCE OF WELDED JOINTS OF HEAT RESISTANT STEELS WHEN USED IN THE PRODUCTION OF METHANOL AND ISOBUTANOL 67-03 M18-65060
CORROSION RESISTANCE OF WELDED JOINTS OF OKH21N6M2T STEEL 67-05 M18-68382
INFLUENCE OF MICROSTRUCTURE ON CORROSION BEHAVIOR OF SOME WELDABLE STEELS 67-05 M18-68461
INFLUENCE OF RESIDUAL STRESSES ON CORROSION CRACKING OF AUSTENITIC STAINLESS STEELS 67-05 M18-69007
IMPROVING THE CAUSTIC BRITTLENESS RESISTANCE OF WELDED VESSELS 67-05 M18-69402
STRESS CORROSION CRACKING OF SOME HIGH-STRENGTH STEELS, 67-05 M18-69823
PROPERTIES OF ANNULAR SEAM WELDED JOINTS IN THIN WALLED TUBES OF ZIRCONIUM ALLOY 67-06 M11-70309
CORROSION RESISTANCE OF WELDED JOINTS IN HEAT RESISTING STEELS FOR METHANOL AND ISOBUTANOL PRODUCTION PLANT 67-07 M18-73978
ALLOYING TYPE KH25N20S2 HIGH-TEMPERATURE CORROSION RESISTANT AUSTENITIC STEELS WITH 0.2-0.7 PER CENT BORON 67-08 M01-75022
PRACTICAL CORROSION PROBLEMS IN RELATION TO WELDED JOINTS. PT. 2. CORROSION PROBLEMS IN DESIGN 67-08 M11-74702
SUBMERGED ARC WELDING OF STAINLESS STEELS 67-08 M11-75359
THE PROPERTIES OF WELDED JOINTS IN HEAT-RESISTANT STAINLESS STEELS 67-08 M11-75906
PRACTICAL CORROSION PROBLEMS IN RELATION TO WELDED JOINTS. PT. 1. SPECIAL CHARACTERISTICS OF THE WELDING PROCESS WHICH CAN CAUSE CORROSION PROBLEMS 67-08 M18-74701
CORROSION CONTROL AT WELDED JOINTS IN CONSTRUCTIONAL STEELS 67-08 M18-74703
STUDYING THE ELECTROCHEMICAL BEHAVIOR OF WELDED JOINTS USING THE POTENTIOSTATIC METHOD 67-08 M18-75405
EXPERIENCE WITH TITANIUM IN CHEMICAL PLANTS 67-09 M18-76365
CORROSION BEHAVIOR OF CR-NI-MO-CU STEELS IN SULFURIC AND PHOSPHORIC ACIDS 67-09 M18-76516
STRESS RELIEF IN AUSTENITIC STEEL WELDS 67-09 M18-76517
THE INFLUENCE OF DELTA FERRITE ON THE CORROSION BEHAVIOR OF WELD DEPOSITS MADE WITH AUSTENITIC FILLER MATERIALS 67-09 M18-77340
CORROSION RESISTANCE OF OKH13 --EI496-- STEEL AND ITS WELDED JOINTS IN CERTAIN OPERATING MEDIA 67-09 M18-77614
SOME CORROSION PROBLEMS IN CONNECTION WITH THE WELDING OF STEEL 67-10 M18-78458
COMPATIBILITY OF ATLAS MATERIALS WITH FLUORINE PROPELLANTS 67-10 M18-78494
IMPROVING THE RESISTANCE OF WELDED CONTAINERS TO ALKALINE BRITTLENESS 67-10 M18-78506
TECHNOLOGY OF WELDING PIPES TO OKH18N12B STEEL PIPE GRATES 67-11 M11-80556
EFFECT OF WELDING SLAG ON THE CORROSION RESISTANCE OF WELDED JOINTS 67-11 M11-80561
INFLUENCE OF THE WELDING HEAT CYCLE AND HEAT TREATMENT ON THE INTERCRYSTALLINE CORROSION SUSCEPTIBILITY OF EI847 STEEL 67-11 M11-80651
THE WELDING OF COATED SHEETS WITH THE CAPACITANCE-DISCHARGE METHOD AND COAXIAL ELECTRODE ARRANGEMENT 67-11 M11-81074
APPLICATION OF CR-NI-MO WELDING RODS WITH STABLE AUSTENITE FOR HIGH-STRENGTH WELDMENTS 67-12 M11-83292
EFFECT OF SMALL COLUMBIUM ADDITIONS ON THE PROPERTIES OF SOME AUSTENITIC STAINLESS STEELS 67-12 M17-83046
THE ELECTROCHEMICAL BEHAVIOUR OF WELDED JOINTS 67-12 M18-82026
CORROSION CRACKING OF SOME HIGH-STRENGTH STEELS 67-12 M18-82257
EFFECT OF WELDING STRESSES ON THE CORROSION OF 1KH18N9T STEEL WELD JOINTS 67-12 M18-82476
CORROSION RESISTANCE OF CARBON STEEL WELDS AND STAINLESS STEEL WELDS IN SOME ARGRESSIVE MEDIA 67-12 M18-83193

WELDED JOINTS, CRACKING /FRACTURING/
EFFECT OF SULFUR, PHOSPHORUS AND SILICON ON CRYSTALLIZATION CRACKING IN TYPE 30KH 10G10 BUILT-UP METAL 67-02 M11-60832
PREVENTION OF CRYSTALLIZATION CRACKS IN PLUG WELDS WELDED WITH DEEP FUSION 67-02 M17-61246
THE MECHANISM OF HOT CRACKING DURING WELDING 67-07 M11-72730

WELDED JOINTS, DEFECTS
PREVENTING OXIDE INCLUSIONS IN WELDED JOINTS OF AMG6 ALLOY 67-05 M11-69415
THE ELIMINATION OF OXIDE INCLUSIONS FROM WELDED JOINTS IN AMG6 ALLOY 67-10 M11-78519

WELDED JOINTS, DEFORMATION
USE OF A COMPUTER FOR CALCULATING DEFORMATION DURING WELDING 67-01 M11-58272

WELDED JOINTS, DIFFUSION
KINETICS OF THERMODIFFUSIVE PROCESSES IN WELDING 67-01 M11-57645
STUDY OF DIFFUSION IN NONSTATIONARY HEATING DURING DIFFUSION WELDING 67-01 M11-58267
EFFECT OF NICKEL IN AUSTENITIC WELDS ON THE MIGRATION OF CARBON TO THE WELDED JOINTS OF DISSIMILAR STEELS 67-12 M11-81908

WELDED JOINTS, DIMENSIONAL STABILITY
THE FEASIBILITY OF OMITTING A HIGH TEMPER IN THE PRODUCTION OF UNIT MACHINE BEDPLATES 67-05 M11-69404
DISPENSING WITH THE HIGH TEMPERATURE TEMPERING OF HOUSING BEDS FOR STANDARD CUTTING MACHINES 67-10 M11-78508

WELDED JOINTS, ELECTRICAL PROPERTIES
THE ELECTRICAL PROPERTIES OF TIG WELDED JOINTS BETWEEN COPPER AND ALUMINIUM 67-07 M15-72698

WELDED JOINTS, FATIGUE /MATERIALS/
INCREASING THE FATIGUE LIFE OF SPOT-WELDS IN ALUMINUM AND TITANIUM ALLOYS 67-07 M17-72785

WELDED JOINTS, FATIGUE STRENGTH
IMPROVING THE EFFICIENCY OF A TITANIUM WELDED JOINT

WELDED JOINTS

67-06 M11-70389
AN IMPROVEMENT TO WELDED JOINTS IN TITANIUM
67-09 M11-78089
WELDED JOINTS, FATIGUE TESTS
CALCULATING THE FATIGUE STRENGTH OF WELDED JOINTS TAKING STRESS CONCENTRATORS INTO CONSIDERATION
67-06 M17-70385
WELDED JOINTS, HARDENING
EXPLOSIVE SHOCK HARDENING.. NEW TOOL SHOWS PROMISE
67-02 M17-60246
WELDED JOINTS, HEAT TRANSFER
HEAT PROPAGATION DURING FUSION WELDING OF ALUMINUM TO COPPER 67-01 M11-58269
WELDED JOINTS, HEAT TREATMENT
SPECIAL ASPECTS OF HEAT TREATED ANCHOR WELDS IN CONCRETE REINFORCING RODS 67-01 M11-58290
STRUCTURE AND PROPERTIES OF LOW-ALLOY STEEL PIPE WELDS 67-01 M14-57389
RATIONAL METHODS OF THERMOMECHANICAL WORKING TITANIUM ALLOY VT 15 AND ITS WELDED JOINTS 67-02 M10-58981
RESEARCH INTO THE EFFECTS OF INDUCTION HEATING DURING NORMALIZATION ON THE MICROSTRUCTURE AND PROPERTIES OF BUTT WELDED JOINTS IN DRILL PIPE
67-02 M10-59790
FINDING A RECOVERY COMPROMISE FOR TENSOTHERMALLY EMBRITTLED WELDMENTS 67-02 M10-60870
IMPROVING THE STRENGTH OF STRUCTURAL STEEL BY HEAT TREATMENT 67-05 M10-68331
HEAT TREATMENT OF AUSTENITIC-FERRITIC WELDS
67-06 M10-70146
STABILITY OF SUPERCOOLED AUSTENITE IN CSN 17021 STEEL ON WELDING SEAMS PREHEATED AND SUBSEQUENTLY ANNEALED 67-06 M10-70358
MECHANICAL PROPERTIES OF WELDED JOINTS OF BETA-ALLOYS IN TI-AL-MO-V-CR SYSTEM
67-06 M10-71311
HEAT TREATMENT OF WELD JOINTS OF STEAM LINES FROM 12KH1MF AND 15KH1M1F STEEL 67-06 M10-71398
INFLUENCE OF HEAT TREATMENT ON STRUCTURE AND BRITTLEMENTS OF FUSION ZONE OF PEARLITIC AND MARTENSITIC STEELS 67-06 M11-71644
INVESTIGATION OF SUSCEPTIBILITY OF WELDED SEAMS TO CARBURIZING 67-06 M11-71645
APPLICATION OF HIGH-TEMPERATURE ANNEALING
67-06 M11-71845
INCREASING TENSILE STRENGTH OF STRUCTURAL STEEL BY MEANS OF HEAT TREATMENT 67-07 M10-72859
HEAT TREATMENT OF HIGH-STRENGTH WELDED DRILLING TUBES 67-08 M10-74376
AMERICAN OIL TURNS ON THE HEAT TO GET ITS CRACKERS CRACKING 67-08 M10-74443
INVESTIGATION OF THE CARBURISING TENDENCY OF WELDS
67-10 M10-79612
THE WELDING OF CAST IRON WITH SPHEROIDAL GRAPHITE
67-10 M11-79488
DISPENSING WITH HIGH TEMPERATURE TEMPERING
67-11 M10-80877
HEAT TREATMENT OF HIGH STRENGTH WELDED JOINTS IN DRILLING TUBES 67-12 M10-82249
TEMPERING WELDED STRUCTURES 67-12 M10-82310
WELDED JOINTS, IMPURITIES
ON THE SLAG CONTENT OF SEAMS WHEN WELDING KH18N9T STEEL WITHOUT EDGE PREPARATION
67-02 M11-60839
WELDED JOINTS, MACHINING
WHEELS THAT MAKE THE WELDING WORLD GO ROUND
67-06 M08-70648
WELDED JOINTS, MECHANICAL PROPERTIES
ARGON-ARC WELDING OF KH14G14N3T STEEL
67-01 M11-57376
ARC WELDING HEAT-RESISTANT STEELS
67-01 M11-57529
WELDABILITY OF 10KHSND CONVERTER STEEL
67-01 M11-57534
CALCULATING BEAM SAG IN CONSIDERATION OF RESIDUAL WELD STRESS FACTORS 67-01 M11-58063
MANUAL ARC WELDING HYDROGEN RESISTANT, 60 MM GAGE 5 PER CENT CR-0.5 PER CENT MO SHEET STEEL
67-01 M11-58164
HIGH-STRENGTH ELECTROWELDED TUBES FOR BUILDING STRUCTURES 67-01 M11-58281
WELDING OT4-2 TITANIUM ALLOY 67-01 M11-58282
ON THE STRESS STATE AND DEFORMATION OF HARD MATERIAL IN WELDED JOINTS WITH HARD AND SOFT INTERLAYERS 67-01 M17-57368
ON THE MECHANICAL PROPERTIES OF A WELDED JOINT OF HIGH-STRENGTH VKS1 STEEL OPERATING UNDER BIAXIAL TENSION CONDITIONS 67-01 M17-57369
WELDABILITY OF HEAT-TREATED LOW-ALLOY 12G2SMF AND 12KHG2SMF STEELS 67-01 M17-57523
MANUFACTURE OF OIL REFINING EQUIPMENT OF QUENCHED AND TEMPERED LOW-ALLOY STEEL 67-01 M17-57604
CHANGE IN THE STRUCTURE AND PROPERTIES OF THE BASIC MATERIAL AND WELDED JOINTS OF VT15 ALLOY DURING HEAT TREATMENT 67-01 M17-58097
RESULTS OF FATIGUE TESTS ON WELDABLE ALUMINIUM ALLOYS 67-01 M17-58297
METALLURGICAL FACTORS AFFECTING THE FRACTURE TOUGHNESS OF 18 NI MARAGING WELDS
67-01 M17-58606
CLASSIFICATION OF HIGH-QUALITY SPOT WELDED ASSEMBLIES 67-02 M11-59170
FATIGUE STRENGTH OF CONNECTING PIPE WELDED JOINTS
67-02 M11-59513
TST-23 ELECTRODES FOR WELDING TYPE KH16N14V2BR HEAT-RESISTANT STEELS 67-02 M11-59517
PRESTRESSES IN MULTILAYER SHELLS DURING ARC WELDING
67-02 M11-59524
WELDABILITY OF HEAT TREATED ST.3PS STEEL
67-02 M11-60002
WELDABILITY OF HEAT TREATED LOW ALLOY 15GF STEEL
67-02 M11-60004
WELDING OF KH8VL STEEL CAST FITTINGS TO PREVIOUSLY WELDED KH8VF STEEL TUBES
67-02 M11-60011
SELECTION OF THE FUSION WELDING METHOD FOR ALUMINUM AND ALUMINUM ALLOYS 67-02 M11-60131
RESISTANCE BUTT WELDING AND HEAT TREATMENT OF BAND SAWS 67-02 M11-60136
STRENGTH OF WELDED JOINTS OF THERMALLY STRENGTHENED STEELS UNDER BIAXIAL TENSION
67-02 M11-60833
THE FORMATION OF REGIONS, RESEMBLING CRACKS, FROM METAL FLOW DURING THE SPOT WELDING OF GRADE MS 68 BRASS 67-02 M11-61052
THE CONDITIONS UNDER WHICH WELDS COOL DURING THE WELDING OF HARDENABLE STEELS 67-02 M11-61053
ARC WELDING OF HIGH TEMPERATURE STEELS
67-02 M11-61148
WELDABILITY OF 10KHSND CONVERTER STEEL
67-02 M11-61153
WELDING ST. 3 STEEL TO KH18N10T STEEL WITH UONI-13/45 ELECTRODES 67-02 M11-61266
STRENGTH AND PLASTICITY OF JOINTS IN AUTOMATIC ARC WELDING OF VT14 AND VT6S TITANIUM ALLOYS
67-02 M11-61267
WELD SURFACE CONTOUR VARIATIONS
67-02 M11-61648
SOME CAUSES FOR DECREASE IN PLASTICITY OF VT15 TI ALLOY WELDED JOINTS AFTER QUENCHING
67-02 M11-62162
EFFECT OF NITROGEN ON THE MECHANICAL PROPERTIES OF KH17N4G14AB STEEL WELDED JOINTS
67-02 M11-62165
STUDY OF DEFORMATION OF CROSS JOINTS IN HEAVY-GAGE COILED STRUCTURES 67-02 M11-62167
AUTOMATIC WELDING OF ELECTRIC MOTOR SHAFTS MADE FROM DISSIMILAR STEELS 67-02 M11-62168
INFLUENCE OF ALLOYING ELEMENTS ON AUSTENITE TRANSFORMATION DURING WELDING OF BAINITIC REINFORCING STEELS 67-02 M14-61970
USABILITY OF WEL-TEN 80C WELDED JOINTS OF HIGH-TENSION STEEL 67-02 M17-58940
THE EFFECT OF CALCIUM, SILICON, MANGANESE AND CHROMIUM ON THE MECHANICAL PROPERTIES OF FLASH BUTT WELDS 67-02 M17-59110
THE LOAD TESTING OF DOUBLE STRAP JOINTS MADE FROM GRADE ST 37 STEEL HAVING FLANK AND FRONTAL FILLET WELDS 67-02 M17-59145
THE FORTUITOUS STRENGTH OF WELDED JOINTS
67-02 M17-59146
TENSILE STRENGTH OF AL AND AL-MG LAP WELDMENTS
67-02 M17-59172
LOW-TEMPERATURE IMPACT-RESISTANT STAINLESS STEELS USED IN WELDED VESSELS --TANKS--
67-02 M17-59412
THE CALCULATION OF STRENGTH INDICES FOR HEAT AFFECTED ZONE METAL IN WELDED CARBON AND LOW-ALLOY STEELS 67-02 M17-59564
RELATION BETWEEN SUBSURFACE HARDNESS AND MECHANICAL BEHAVIOR IN WELDED ASSEMBLIES OF 52 STEEL
67-02 M17-59757
RESEARCH INTO THE FATIGUE STRENGTH OF BUTT WELDED JOINTS BETWEEN STEEL TUBES 67-02 M17-59794
APPARATUS FOR TESTING WELDED JOINTS IN TUBULAR SPECIMENS 67-02 M17-59799
THE PRODUCTION OF REPRODUCIBLE WELDING DEFECTS AND

THEIR EFFECT ON FATIGUE STRENGTH
67-02 M17-59812
IMPROVING THE PROPERTIES OF WELDED JOINTS IN VNS2 STEEL 67-02 M17-60010
INFLUENCE OF ANNEALING ON CREEP STRENGTH OF KH18N10T STEEL WELDS 67-02 M17-60133
THE DETERMINATION OF RESIDUAL WELDING STRESSES IN FUSION-WELDED BUTT WELDS --SWELL METHOD--
67-02 M17-60508
FATIGUE STRENGTH OF WELDED JOINTS AT LOW TEMPERATURE 67-02 M17-60663
FATIGUE OF WELDED STRUCTURES--RETROSPECT AND PROSPECT 67-02 M17-60912
WELDABILITY OF HEAT TREATED LOW ALLOY 12G2SMF AND 12KHG2SMF STEELS 67-02 M17-61142
BRITTLE FRACTURE OF AUSTENITIC STEEL WELDS AT HIGH TEMPERATURES 67-02 M17-61241
INFLUENCE OF COLD TREATMENT ON STRUCTURE AND PROPERTIES OF VNS5 STAINLESS STEEL WELDS
67-02 M17-61242
INFLUENCE OF STRESS CONCENTRATORS ON ENDURANCE OF WELDED STRUCTURES 67-02 M17-61244
MECHANICAL PROPERTIES OF LARGE SIZE WELDS OF AVIAL ALUMINUM ALLOY 67-02 M17-61245
INFLUENCE OF IRON POWDER IN THE ELECTRODE COATING ON GRAIN SIZE AND DUCTILITY OF WELDED JOINTS
67-02 M17-61247
PROPERTIES OF WELD METAL AND HEAT AFFECTED ZONE IN ELECTROSLAG WELDING OF 15KH2MF STEEL
67-02 M17-61270
PREVENTION OF BRITTLE FRACTURES IN WELDED STRUCTURES 67-02 M17-61650
USING CONCENTRATED --SPOT-- HEAT TO IMPROVE THE FATIGUE STRENGTH OF WELDED JOINTS
67-02 M17-62166
MEASUREMENT OF RESIDUAL STRESSES IN A HEAVY WELDMENT 67-02 M19-61583
WELD STRENGTH IMPROVED BY ROLL PLANISHING
67-03 M08-65170
EFFECT OF HYDROGEN ON FORMATION OF WELD AFFECTED ZONE CRACKS IN WELDING HARDENING STEELS
67-03 M11-65048
WELDING CAST HEAT RESISTANT FE-25CR-5AL ALLOY
67-03 M11-65050
WELDING AMG61 ALLOY IN HELIUM 67-03 M11-65051
ELECTRON BEAM WELDING OF VT15 TITANIUM ALLOY
67-03 M11-65053
WELDING AN EXPERIMENTAL VACUUM APPARATUS MADE OF AT3 TITANIUM ALLOY 67-03 M11-65061
SPECIFY SURFACE FINISH, RESISTANCE WELDS IMPROVE
67-03 M11-65359
THE SS WELDING PROCESS --IMPROVED SUBMERGED ARC WELDING-- 67-03 M11-65819
INFLUENCE OF WELDING CONDITIONS ON THE STRESS CONCENTRATION SENSITIVITY OF 15KHSND WELDED JOINTS 67-03 M17-65045
RELATIONSHIP OF MECHANICAL PROPERTIES OF WELD AFFECTED ZONE OF CONSTRUCTION STEELS TO WELDING THERMAL CYCLE 67-03 M17-65046
EFFECT OF GAS CONTENT ON TENDENCY TO DELAYED FRACTURE AND COLD CRACKING IN WELDING TITANIUM ALLOYS OF THE TI-AL-ZR SYSTEM
67-03 M17-65047
HIGH STRENGTH PRESSURE WELDED STEEL BAR
67-03 M17-65822
INFLUENCE OF SOME DEFECTS IN STEELS UPON THE FATIGUE STRENGTH 67-03 M17-65824
BORON-ALLOYED AUSTENITIC STEELS AND ALLOYS FOR WELDED STRUCTURES 67-04 M11-66811
STRENGTH OF ARC WELDED CRUCIFORM JOINTS IN STEEL ST. 3 67-05 M11-68261
WELDING STEEL ST. 3 TO STEEL KH18N10T WITH UONI-13/45 ELECTRODES 67-05 M11-68266
THE STRENGTH AND DUCTILITY OF AUTOMATIC ARGON ARC WELDED JOINTS IN TITANIUM ALLOYS VT14 AND VT6S
67-05 M11-68267
EFFECT OF WELDING CONDITIONS ON THE STRENGTH OF WELDED AL ALLOY MEMBERS 67-05 M11-68861
EFFECT OF THICKNESS OF GLUE FILM ON THE LIFE OF GLUED METAL JOINTS IN WATER 67-05 M11-69043
FRICTION WELDING OF MOTOR DISTRIBUTOR CAMS
67-05 M11-69413
CHROMIZED STEEL WELDS ARE STRONG AND CORROSION RESISTANT 67-05 M11-69497
WELD METAL AND HEAT AFFECTED ZONE PROPERTIES OF ELECTROSLAG WELDS IN 15KH2MF STEEL
67-05 M17-68270
EMBRITTLEMENT OF WELDED JOINTS IN AUSTENITIC STEEL
67-05 M17-68362
ON THE PROBLEM OF THE VALUE OF IMPACT STRENGTH TESTING OF WELDS 67-05 M17-68744
STUDY OF THE BEHAVIOR OF WELDED JOINTS INCORPORATING DESIGN DEFECTS UNDER UNIAXIAL TENSION LOADING 67-05 M17-68785
STUDY OF THE CONDITIONS OF STRESS RELAXATIONS IN AG SERIES AL ALLOYS USED IN WELDED STRUCTURES
67-05 M17-68787
THE STRENGTH AND COLD RESISTANCE OF AMG5V ALLOY AND ITS WELDED JOINTS AT LOW TEMPERATURES
67-05 M17-69041
FABRICATION OF LIQUEFIED OXYGEN AND NITROGEN STORAGE TANKS FROM FLT9N --9 PER CENT NICKEL-- STEEL 67-05 M17-69369
CROSS TRAVEL OF ARC AS A FACTOR IN IMPROVING THE STRUCTURE AND PROPERTIES OF WELDED JOINTS
67-05 M17-69406
THE POSSIBILITY OF BRITTLE FRACTURE OF ALUMINUM ALLOY WELDED JOINTS 67-05 M17-69408
PRESS WELDING UNIFORMLY HEATED LARGE SIZE STEEL BILLETS 67-05 M17-69409
ELECTROSLAG WELDING OF HEAVY-GAGE KH17N13M3T STEEL
67-05 M17-69416
SOLIDIFICATION-DEPENDENT ASPECTS OF FRACTURE IN 18 PER CENT NI MARAGING STEEL WELDS
67-05 M17-69713
SPOT ARC WELDING AND SPOT RESISTANCE WELDING OF THERMALLY STRENGTHENED VT14 TITANIUM ALLOY
67-06 M11-70020
ULTRATOUGH STEEL WELD METALS 67-06 M11-70139
EFFECT OF WELDING CONDITIONS AND HEAT TREATMENT ON THE BRITTLENESS OF VT15 TITANIUM ALLOY WELDED JOINTS 67-06 M11-70390
AUTOMATIC VIBROARC BUILD-UP OF LAYERS OF VARIOUS THICKNESS 67-06 M11-70391
EFFECT OF EDGE DISPLACEMENT ON THE MECHANICAL PROPERTIES OF AN AMG6 ALLOY WELDED JOINT
67-06 M11-70395
ARC WELDING OF COMBINED BUTTS OF STEAM HEATER PIPES IN 12KH1MF PLUS 1KH18N12T --1KH18N9T-- STEEL
67-06 M11-70396
WELDED JOINTS OF LOW-TEMPERATURE STEELS IN THE CONSTRUCTION OF PRESSURE VESSELS
67-06 M11-70462
THE WELDING OF STEELS FOR LOW TEMPERATURE APPLICATIONS 67-06 M11-71596
GAS WELDING OF LOW-CARBON STEEL USING NATURAL GAS
67-06 M11-71647
CORED WELDING WIRE FOR SEMI-AUTOMATIC WELDING OF KH18N10T STAINLESS STEEL 67-06 M11-71650
SUBMERGED-ARC WELDING OF ARMY ARMOR
67-06 M11-71683
CHARACTERISTICS OF WELDING OF STRUCTURAL STEEL REFINED IN A LADLE WITH SYNTHETIC SLAG
67-06 M11-71840
INFLUENCE OF THE INITIAL TEMPERATURE OF BASE METAL ON PROPERTIES OF WELDED JOINTS
67-06 M11-71842
PREDOMINANT CASES AND REASONS OF BRITTLE FAILURE
67-06 M11-71846
FATIGUE STRENGTH OF FRICTION WELDED JOINTS
67-06 M11-71847
USE OF EP-389 WIRE FOR AUTOMATIC WELDING OF CLAD STEELS USED FOR CHEMICAL AND OIL REFINING APPARATUS 67-06 M11-71851
RELIABILITY AND LIFE OF RECLAIMED CRANKSHAFTS OF TRACTOR MOTORS 67-06 M11-72310
A MECHANISM FOR CRACK FORMATION IN HY-80 STEEL WELDMENTS 67-06 M17-70140
STATIC INVESTIGATIONS OF RA3 --ALMG5-- ALLOY WELD JOINTS 67-06 M17-70211
MECHANICOTHERMAL TREATMENT OF VT15 TITANIUM ALLOY WELDED JOINTS 67-06 M17-70386
NOTES ON THE PROPERTIES AND WELDING OF CENTRIFUGALLY CAST 25 PER CENT CHROMIUM 20 PER CENT NICKEL ALLOY STEEL TUBE 67-06 M17-70533
QUALITY OF 1020 MM DIAMETER SPIRAL SEAM TUBES OF 15G2S STEEL 67-06 M17-71260
DEFORMATION AND STRENGTH OF END FILLET WELDS
67-06 M17-71600
INFLUENCE OF RESIDUAL STRESSES ON FATIGUE STRENGTH OF RECLAIMED CRANKSHAFTS
67-06 M17-71651
ON THE SULPHIDE CORROSION CRACKING OF HIGH STRENGTH STEEL OWING TO H2S IN CHEMICAL PLANTS
67-06 M17-72068
THE TECHNOLOGY OF THE ADHESIVE BONDING OF METALS
67-06 M18-71554
INFLUENCE OF HYDROGEN IN THE PROCESS OF CORROSION

ON PROPERTIES OF WELDED TITANIUM ALLOYS 67-06 M18-71646
THE MECHANICAL PROPERTIES OF MULTI-PASS WELDS 67-07 M11-72697
CONCERNING THE SELECTION OF ADDITIONAL HEATING PARAMETERS FOR WELDED THIN SHEET VL-1D STEEL 67-07 M11-72733
CHARACTERISTICS OF BRITTLE FAILURES IN WELDED ROLLING STOCK AND PREVENTIVE MEASURES 67-07 M11-72736
ELECTRON BEAM WELDING OF EI437BU ALLOY TO EI618 ALLOY 67-07 M11-72738
WELD SURFACE DEFECTS--STRIKES, PITS AND SPATTER 67-07 M11-73306
T WELDS IN REINFORCEMENT STEEL 67-07 M11-73433
VERTICAL ARC WELDS MADE WITH CONSTRAINING MOULDS 67-07 M11-73434
EFFECT OF HYDROGEN ON CRACKING IN THE HEAT AFFECTED ZONE IN THE WELDING OF HARDENABLE STEELS 67-07 M11-73968
WELDING CAST FE..25 CR.. 5AL HEAT RESISTING ALLOY 67-07 M11-73970
HELIUM ARC WELDING OF AMG61 ALLOY 67-07 M11-73971
ELECTRON BEAM WELDING OF VT15 TITANIUM ALLOY 67-07 M11-73972
WELDING AN EXPERIMENTAL VACUUM APPARATUS IN AT3 TITANIUM ALLOY 67-07 M11-73981
COMPARISON OF CALCULATED AND MEASURED STRESSES FOR A TENSION BAR WITH WELDED-ON CIRCULAR STRAPS 67-07 M17-72424
STRENGTH PROPERTIES OF ELECTRON BEAM WELDED ALLOYS FOR EXTREME HIGH-TEMPERATURE SERVICE 67-07 M17-72425
STRESS CONCENTRATION IN BUTT JOINTS 67-07 M17-72688
THE PART PLAYED BY SIZE EFFECT DURING THE BRITTLE FRACTURE OF MEMBERS OF WELDED STRUCTURES 67-07 M17-72690
SELECTING THE STRESS RELIEVING TEMPERATURE FOR BRASS STRUCTURES 67-07 M17-72692
OBSERVATIONS ON CRACKS IN WELDED PLATE STRESSED AT RIGHT ANGLES TO SURFACE 67-07 M17-73255
IMPROVING THE STRENGTH OF WELD JOINTS DURING IMPACT LOADING BY HEATING AND ABRUPT COOLING 67-07 M17-73479
BEHAVIOR OF WELDED NIPPLES AND CONNECTING SLEEVES WHEN SUBMITTED TO ABRUPT TEMPERATURE CHANGES 67-07 M17-73711
THE FATIGUE STRENGTH OF BUTT-WELDED JOINTS IN LOW-ALLOY STRUCTURAL STEELS 67-07 M17-73886
THE EFFECT OF WELDING CONDITIONS ON THE SENSITIVITY TO STRESS RAISERS OF JOINTS IN 15KHSND STEEL 67-07 M17-73965
RELATIONSHIP OF THE MECHANICAL PROPERTIES OF THE HEAT AFFECTED ZONE IN STRUCTURAL STEELS TO THE THERMAL WELDING CYCLE 67-07 M17-73966
EFFECT OF GAS CONTENT ON THE TENDENCY TO DELAYED FAILURE AND COLD CRACKING WHEN WELDING CERTAIN TITANIUM ALLOYS 67-07 M17-73967
WELD-METAL MICROCRACKING IN REHEATED WELDS 67-07 M17-74284
INFLUENCE OF NONUNIFORMITY OF MECHANICAL PROPERTIES OF AUSTENITIC STAINLESS STEEL WELDS ON LOCAL FAILURE 67-08 M11-74369
CRACK RESISTANCE OF COPPER WELDS CONTAINING BI AND PB IMPURITIES 67-08 M11-74370
INFLUENCE OF THE ROLLING TEXTURE ON COLD WELDING OF ALUMINUM 67-08 M11-74372
USE OF NATURAL GAS FOR WELDING OF CARBON STEELS 67-08 M11-74379
RESISTANCE WELDING DESIGN FOR MAGNESIUM 67-08 M11-74442
SOME ASPECTS OF SPOT WELDING IN STRUCTURAL ENGINEERING 67-08 M11-74768
SEMI-AUTOMATIC CO2 WELDING WITH FILLET SPOT WELDS IN SHEET METAL STRUCTURES 67-08 M11-74772
FLASH WELDING OF AUSTENITIC SHEET STEELS 67-08 M11-74773
FORMING JOINTS WHEN WELDING WITHOUT FUSION 67-08 M11-75407
WELDING DRILL PIPES OF HIGH-STRENGTH STEELS 67-08 M11-75408
A WELDED PISTON MADE OF SILUMIN FOR THE D70 DIESEL LOCOMOTIVE 67-08 M11-75409
EFFECTS OF THE CHEMICAL COMPOSITIONS OF FILLER WIRES ON THE STRENGTH OF JOINTS BETWEEN STEEL AND ALUMINIUM 67-08 M11-75908
COLD AND FORGE WELDING WITH HIGH UPSETTING RATES 67-08 M11-75912
AUSTENITIC STEELS AND ALLOYS, ALLOYED WITH BORON, FOR WELDED STRUCTURES 67-08 M11-75915
APPROXIMATE APPRISAL OF THE STRENGTH OF HEAT AFFECTED ZONE IN WELDED CARBON AND LOW-ALLOY STEELS 67-08 M17-74367
INFLUENCE OF PLASTIC DEFORMATION IN HEAT AFFECTED ZONE ON COLD SHORTNESS OF WELDED JOINTS 67-08 M17-74368
FISH EYE FORMATION IN UNALLOYED STRUCTURAL STEELS 67-08 M17-74447
SURFACE STRESS DISTRIBUTION CHARACTERISTICS OF WELDED A VIAL ALLOY SLABS 67-08 M17-74762
MECHANICAL PROPERTIES OF SEAM WELDED JOINTS IN THIN WALLED SLENDER TUBES 67-08 M17-74767
WELDABILITY OF THIN AMG6 ALLOY 67-08 M17-74775
HOT TENSILE PROPERTIES OF 1/2 PER CENT CR-1/2 PER CENT MO-1/4 PER CENT V AND 2 1/4 PER CENT CR-1 MO STEAM PIPE MATERIAL 67-08 M17-75361
EFFECT OF PLASTIC DEFORMATION AND RESIDUAL STRESS ON THE FRACTURE RESISTANCE OF STEELS AT LOW TEMPERATURES 67-08 M17-75401
PROPAGATION OF LONGITUDINAL BRITTLE CRACKS IN INTERSECTING SEAMS 67-08 M17-75403
HAZARDOUS METALLURGICAL NOTCHES 67-08 M17-75526
CRACKS IN THE BOTTOM PLATING AT THE STERN OF A SHIP 67-08 M17-75535
THE INFLUENCE OF SHIELDING GAS COMPOSITION ON WELD METAL PROPERTIES 67-08 M17-75537
THE FATIGUE FACTOR IN ENGINEERING DESIGN 67-08 M17-75613
INVESTIGATING QUALITY OF 1020 MM DIAMETER HELICALLY WELDED TUBES MADE FROM 15G2S STEEL 67-08 M17-75729
INFLUENCE OF AGING ON RETARDED DESTRUCTION OF WELDED JOINTS OF THE AL-ZN-MG SYSTEM 67-08 M17-76123
ELECTROSLAG WELDING OF OIL REFINING MACHINERY 67-09 M11-76518
WELDING THE MARAGING STEELS 67-09 M11-76638
AUTOMATIC ARGON ARC WELDING OF M40 ALLOY 67-09 M11-77241
WELDABILITY OF TYPE KH14G14N3T CHROMIUM-NICKEL-MANGANESE STEELS 67-09 M11-77606
EFFECT OF WELDING CONDITIONS AND HEAT TREATMENT ON THE BRITTLENESS OF WELDED JOINTS IN VT15 TITANIUM ALLOY 67-09 M11-78090
AUTOMATIC VIBRO-ARC SURFACING IN DIFFERENT THICKNESSES 67-09 M11-78091
EFFECTS OF ONE EDGE BEING PROUD OF THE OTHER ON THE MECHANICAL PROPERTIES OF WELDED JOINTS IN AMG6 ALLOY 67-09 M11-78095
ARC BUTT WELDS BETWEEN STEAM SUPERHEATER TUBES MADE OF GRADES 12KH1MF AND 1KH18N12T --1KH18N12T-- STEELS 67-09 M11-78096
INFLUENCE OF THE INITIAL TEMPERATURE OF BASE METAL ON THE PROPERTIES OF WELDED JOINT 67-09 M11-78114
WELDABILITY OF QUENCHED AND TEMPERED 10G2S1D MN-SI STEEL 67-09 M11-78115
WELDING HIGH-PRESSURE PIPELINE UNDER FIELD CONDITIONS 67-09 M11-78123
WELDING OF VESSELS FROM ALUMINUM ALLOY 67-09 M11-78125
ARGON ARC BUTT WELDING OF THIN COPPER STRIPS 67-09 M11-78131
DEVELOPMENT OF PROCEDURES FOR WELDING HY-130 --T-- STEEL 67-09 M11-78147
THE RESULTS OF JOINT CREEP RUPTURE TESTS ON WELDS OF HEAT RESISTANT STEELS 67-09 M11-78192
FURTHER TECHNIQUES FOR IMPROVING THE FATIGUE STRENGTH OF WELDED JOINTS 67-09 M17-76652
SOME FATIGUE TESTS ON FILLET WELDED MILD AND HIGH TENSILE STEEL SPECIMENS IN THE AS-WELDED AND NORMALIZED CONDITIONS 67-09 M17-76653
BRITTLE CRACKS IN TYPE ST3S MILD STEEL STRUCTURES 67-09 M17-76896
REASONS FOR EMBRITTLEMENT IN THE HEAT AFFECTED ZONE OF WELDS IN AUSTENITIC STEAMPIPES 67-09 M17-76962
STATISTICAL INTERPRETATION OF THE ENDURANCE CHARACTERISTICS OF SPOT WELDED JOINTS IN ALUMINIUM ALLOY AMG6 67-09 M17-77234
FATIGUE STRENGTH OF WELDED JOINTS BETWEEN DISSIMILAR STEELS 67-09 M17-77237
THE PROBLEM OF SHAPE-DEPENDENT STRENGTH IN WELDED STRUCTURES 67-09 M17-77307
EFFECT OF FERRITE ON PROPERTIES OF AUSTENITIC WELD

METAL
67-09 M17-77601
BRITTLE STRENGTH OF ELEMENTS OF THICK-WALLED VESSELS OF 22K STEEL AT AXIAL TENSIONS
67-09 M17-77602
FATIGUE RESISTANCE OF 16GNM STEEL ELECTROSLAG WELDED JOINTS
67-09 M17-77603
EFFECT OF SPECIMEN LOADING WHEN TESTING STEELS FOR SUSCEPTIBILITY TO COLD CRACKING DURING WELDING
67-09 M17-77604
MECHANICAL PROPERTIES OF COMBINATION WELDED JOINTS IN THE REPAIR OF AUTOMOBILE COMPONENTS
67-09 M17-77613
CALCULATING THE FATIGUE STRENGTH OF WELDED JOINTS WHEN STRESS RAISERS ARE PRESENT
67-09 M17-78085
MECHANICAL-THERMAL TREATMENT OF WELDED JOINTS IN VT-15 TITANIUM ALLOY
67-09 M17-78086
FATIGUE RESISTANCE OF WELDED LARGE-SIZE DIESEL CRANKSHAFTS
67-10 M11-78409
RESISTANCE WELDING OF BRASS
67-10 M11-78412
THE FRICTION WELDING OF PUSH RODS FOR SMD ENGINES
67-10 M11-78517
PROBLEMS IN WELDING DUCTILE CAST IRON
67-10 M11-78712
INFLUENCE OF WELD THICKNESS ON THE STATIC STRENGTH OF SIDE FILLET WELDS
67-10 M11-79181
APPLICATION OF ELECTRO-GAS WELDING PROCESS TO SIDE SHELL PLATES OF HIGH-SPEED CARGO LINERS
67-10 M11-79492
INFLUENCE OF HEAT TREATMENT ON THE STRUCTURE AND TENDENCY TO EMBRITTLEMENT OF THE FUSION ZONE IN PEARLITIC AND MARTENSITIC STEELS
67-10 M11-79611
WELDING MILD STEEL WITH TOWNS GAS
67-10 M11-79614
POWDER FILLED WIRE FOR THE SEMI-AUTOMATIC WELDING OF KH18N10T STEEL
67-10 M11-79618
HOW TO USE COVERED ELECTRODES
67-10 M11-79759
FACTORS INFLUENCING THE QUALITY OF WELDS OBTAINED BY SUBMERGED MELT --FLUX-- WELDING
67-10 M11-79796
EFFECTS OF NITROGEN AND HELIUM SHIELDING MIXTURES ON SEMIAUSTENITIC STAINLESS STEEL WELDS
67-10 M11-79952
EFFECT OF ALLOYING ELEMENTS ON THE KINETICS OF THE TRANSFORMATION OF AUSTENITE DURING WELDING OF BAINITIC REINFORCING STEELS
67-10 M14-78827
A STATISTICAL ANALYSIS OF ALUMINUM WELDS TESTED AT CRYOGENIC TEMPERATURES
67-10 M17-78487
EFFECT OF AGING ON THE TENSILE PROPERTIES OF ALLOY 7039 GTA WELDS AT LOW TEMPERATURES
67-10 M17-78488
MECHANICAL PROPERTIES OF SEVERAL NICKEL-BASE ALLOYS AT ROOM AND CRYOGENIC TEMPERATURES
67-10 M17-78490
WEAVING THE ARC AS A FACTOR IN IMPROVING THE STRUCTURE AND PROPERTIES OF WELDED JOINTS
67-10 M17-78510
BRITTLE FRACTURE IN WELDED JOINTS IN ALUMINIUM ALLOYS
67-10 M17-78512
THE FORGE WELDING OF LARGE CROSS SECTION STEEL BLANKS
67-10 M17-78513
THE ELECTROSLAG WELDING OF KH17N13M3T STEEL PLATE
67-10 M17-78520
THE BEND STRENGTH OF HARDENABLE STRUCTURAL STEELS DURING DELAYED BREAKDOWN
67-10 M17-78980
INFLUENCE OF RESIDUAL STRESSES ON THE FATIGUE STRENGTH OF CRANKSHAFTS AFTER REPAIR
67-10 M17-79619
INFLUENCE OF HYDROGEN DURING CORROSION ON THE PROPERTIES OF TITANIUM WELDS
67-10 M18-79613
HIGH-TEMPERATURE PROPERTIES OF STEAMPIPE WELDS
67-11 M11-80279
INTEGRITY OF ATTACHMENT WELDS TO SUPERHEATER TUBING
67-11 M11-80281
ELECTRON BEAM WELDING OF D6AC STEEL IN THE HEAT TREATED CONDITION
67-11 M11-80411
WELDING THICK-WALLED STAINLESS STEEL CHEMICAL APPARATUS
67-11 M11-80545
ARGON ARC WELDING BR.B2 BERYLLIUM BRONZE
67-11 M11-80547
WELDING BOGIE AND AXLE BOX SHOES OF LOCOMOTIVES IN 60G STEEL
67-11 M11-80560
WELDING EI993 STEEL STEAM SUPERHEATER PIPES
67-11 M11-80648
WELDING STRUCTURAL STEEL WHICH HAS BEEN REFINED IN THE LADLE WITH MOLTEN SYNTHETIC SLAG
67-11 M11-80872
EFFECTS OF THE INITIAL TEMPERATURE OF THE PARENT METAL ON THE PROPERTIES OF WELDED JOINTS
67-11 M11-80874
THE FATIGUE STRENGTH OF FRICTION WELDED JOINTS
67-11 M11-80879
THE AUTOMATIC WELDING OF CLAD STEELS USING EP-389 ELECTRODE WIRE
67-11 M11-80883
THE RELIABILITY AND LIVES OF BUILT UP CRANKSHAFTS FOR VEHICLE AND TRACTOR ENGINES
67-11 M11-81582
SOME EFFECTS OF HEAT TREATMENT AND WELDING ON THE RUPTURE PROPERTIES OF THREE AUSTENITIC STEELS
67-11 M17-80278
THE STRESS CONCENTRATION SUSCEPTIBILITY OF LOW CARBON STEEL WELDED JOINTS DURING LOAD CYCLING
67-11 M17-80646
WIDESPREAD CASES OF BRITTLE FRACTURE AND THEIR CAUSES
67-11 M17-80878
STRESS-RELIEF CRACKING IN CARBON AND LOW-ALLOY STEELS
67-11 M17-81003
CARBON CONTROL STOPS CRACKING IN TYPE 316
67-11 M17-81192
SAFETY AND STATISTICAL INVESTIGATION OF THE FATIGUE BEHAVIOR OF SPECIMENS WITH SEVERAL CONCURRENT NOTCHES ON ZN-POWDER PRIMED STRIPS WITH WELDED TRANSVERSE REINFORCING STRIPS
67-11 M17-81382
FATIGUE TESTING OF WELDED JOINTS OF ST. 37, WITH AND WITHOUT, PAINTING
67-11 M17-81383
A RATIONAL APPROACH TO STANDARDS FOR WELDED CONSTRUCTION. PT. 2
67-11 M17-81500
LARGE TURBINE ROTORS FABRICATED BY WELDING
67-12 M11-81821
WELDING RING SEAMS IN SMALL-DIAMETER PIECES IN 38KHS STEEL BY AUTOMATIC SUBMERGED ARC OR IN CO2
67-12 M11-81916
AUTOMATIC WELDING OF STRUCTURES IN KH18N10T STEEL AND EI602 ALLOY
67-12 M11-81917
FORMATION OF JOINTS DURING WELDING WITHOUT MELTING
67-12 M11-82028
THE WELDING OF DRILL TUBES MADE OF HIGH TENSILE STEELS
67-12 M11-82029
WELDED SILUMIN PISTONS FOR D70 LOCOMOTIVE ENGINES
67-12 M11-82030
SOME EXPERIMENTS ON JOINING ALUMINUM TO MILD STEEL BY TIG WELDING
67-12 M11-82134
INFLUENCE OF THE MECHANICAL HETEROGENEITY OF WELDED JOINTS IN AUSTENITIC STEELS ON THEIR SUSCEPTIBILITY TO LOCAL FAILURE
67-12 M11-82242
CRACK RESISTANCE OF COPPER WELDS CONTAINING BI AND PB
67-12 M11-82243
WARM WORKING TREATMENT OF THE DEPOSIT DURING VIBRO-ARC HARDFACING
67-12 M11-82244
INFLUENCE OF ROLLING TEXTURE ON THE COLD WELDING CONDITIONS FOR ALUMINIUM
67-12 M11-82245
USE OF NATURAL GAS FOR WELDING CARBON STEELS
67-12 M11-82252
SECONDARY HEATING IN THE WELDING OF VL-1D STEEL
67-12 M11-82312
PREVENTING BRITTLE FRACTURES OF WELDED STRUCTURES IN ROLLING STOCK
67-12 M11-82315
ELECTRON BEAM WELDING OF EI437BU ALLOY TO EI618 ALLOY
67-12 M11-82317
WELDING OF MACHINE AND MACHINE PARTS
67-12 M11-82506
PROPERTIES OF ELECTROSLAG WELDS OF AMG6 AL ALLOY
67-12 M11-82624
OPTIMUM THERMAL CYCLE DURING RESISTANCE WELDING OF 12KH1MF STEEL
67-12 M11-82626
WELD METAL OF THE JOINTS OF DIFFERENT STEELS FOR TEMPERATURES OVER 550 C
67-12 M11-82633
BUTT FLASH WELDING OF THIN ALUMINUM STRIPS
67-12 M11-82634
A RATIONAL APPROACH TO STANDARDS FOR WELDED CONSTRUCTION. PT. 3
67-12 M11-82660
SHORT CYCLE PROJECTION STUD WELDING
67-12 M11-82817
FATIGUE STRENGTH OF A WELDABLE HIGH STRENGTH MARTENSITIC STAINLESS STEEL
67-12 M11-82820
WELDABLE, CAST, EASY-TO-MACHINE CARBON STEELS
67-12 M11-83043
MATERIAL AND WELDING PROBLEMS IN REACTOR CONSTRUCTION WITH EMPHASIS ON ELECTRON-BEAM WELDING
67-12 M11-83147
WELDING 1KH13M2S2 STEEL WITH OKH18N10T STEEL
67-12 M11-83187
INFLUENCE OF PREHEATING ON RESIDUAL STRESSES IN STEAMPIPES OF 1KH18N9T STAINLESS STEEL

WELDED JOINTS

67-12 M11-83188
RESISTANCE BUTT WELDING OF MOLYBDENUM TO ARMCO IRON
67-12 M11-83189
EFFECT OF ANNEALING TEMPERATURE ON AMOUNT OF RESIDUAL STRESSES AND PROPERTIES OF OT4 TI-ALLOY WELDED JOINTS 67-12 M11-83192
WELDING OF A-Z5G ALLOY --AL-ZN-MG--
67-12 M11-83506
EFFECT OF SHIELDING GAS COMPOSITION ON THE PROPERTIES OF WELDS 67-12 M11-83508
MECHANISM OF HOT CRACKING DURING WELDING
67-12 M13-82309
AN APPROXIMATE ESTIMATION OF THE STRENGTH INDICES OF THE HEAT AFFECTED ZONE METAL IN THE WELDING OF CARBON AND LOW ALLOY STEELS 67-12 M15-82240
STUDIES ON SURFACE EFFECT AND NOTCH EFFECT ON THE FATIGUE OF WELDED ALUMINUM ALLOYS. PT. 1
67-12 M17-81902
STUDIES ON THE EFFECTS OF LACK OF PENETRATION AND BEAD PROFILES ON THE FATIGUE OF WELDED ALUMINUM ALLOY. PT. 2 67-12 M17-81903
INCREASING THE FATIGUE LIMIT OF FRICTION-WELDED JOINTS 67-12 M17-81915
THE EFFECT OF PLASTIC DEFORMATION AND RESIDUAL STRESSES ON THE RESISTANCE OF STEELS TO FRACTURE AT LOW TEMPERATURES 67-12 M17-82022
THE PROPAGATION OF LONGITUDINAL BRITTLE CRACKS IN INTERSECTING WELDS 67-12 M17-82024
INFLUENCE OF PLASTIC STRAIN IN THE HEAT-AFFECTED ZONE ON THE LOW-TEMPERATURE EMBRITTLEMENT OF WELDED JOINTS 67-12 M17-82241
QUENCHED AND TEMPERED GRADE 18G2A STEEL FOR WELDED STRUCTURES 67-12 M17-82496
FORMATION OF FATIGUE CRACKS IN WELDMENTS UNDER THE EFFECT OF COMPRESSIVE STRESSES
67-12 M17-82630
FATIGUE STRENGTH AND DAMPING PROPERTIES OF WELDMENTS OF KH17N2 AND D15L STEELS
67-12 M17-82632
MECHANICAL PROPERTIES AT ELEVATED TEMPERATURES OF SEAMLESS CARBON STEEL TUBING 67-12 M17-83337
STATISTICAL STUDY ON THE INFLUENCE OF ADDITION ELEMENTS ON WELD CRACKING IN AG 3 ALLOYS
67-12 M17-83341
INVESTIGATION OF ON6A AND ON9A STEELS FOR PERFORMANCE AT -196 C 67-12 M17-83531
LOW-TEMPERATURE MECHANICAL PROPERTIES OF SOME ALUMINUM ALLOY WELDS 67-12 M17-83534

WELDED JOINTS, MECHANICAL TESTS
STRENGTH OF WELDED CRUCIFORM JOINTS OF ST. 3 STEEL DURING ARC WELDING 67-02 M11-61261

WELDED JOINTS, METALLOGRAPHY
ELECTROLYTIC ETCHING OF ALLOYED STEEL WELDINGS
67-01 M13-58398
METHOD OF REMOVING THIN FOIL FROM WELDED JOINTS FOR THE STUDY OF DISLOCATION STRUCTURES
67-07 M13-72700
SUPPLEMENT ON THE ELECTROLYTIC ETCHING OF PRIMARY STRUCTURES 67-08 M13-74943

WELDED JOINTS, MICROSTRUCTURE
THE EFFECT OF HYDROGEN ON PORE FORMATION IN ARGON ARC WELDING OF TITANIUM 67-01 M11-57524
INFLUENCE OF HYDROGEN ON PORE FORMATION DURING THE ARGON ARC WELDING OF TITANIUM
67-02 M11-61143
HETEROGENEITY OF AL-MG ALLOY WELDS
67-02 M11-61256
INVESTIGATION, FOR THE CASE OF WELDING, OF A RELATION BETWEEN TIME AND TEMPERATURE OF AUSTENIZATION 67-02 M14-59993
FACTORS INFLUENCING THE QUALITY OF ELECTROSLAG WELDED JOINTS 67-05 M11-69330
CHANGE IN THE STRUCTURE AND PROPERTIES OF HEAT RESISTANT STEELS IN WELD JOINTS OF STEAM LINES
67-06 M14-70155
WELD JOINTS OF HEAT RESISTANT STEELS IN OPERATIONAL CONDITIONS 67-07 M11-73036
A PROCEDURE FOR STUDYING THE AUSTENITE TRANSFORMATION DURING WELDING CYCLES
67-07 M14-72699
PHENOMENA OCCURRING AT GRAIN BOUNDARIES IN THE HEAT AFFECTED ZONE 67-08 M13-75905

WELDED JOINTS, NONDESTRUCTIVE TESTING
APPARATUS FOR CONTINUOUS MAGNETIC RECORDING INSPECTION FOR SMALL-SIZE ELECTRIC RESISTANCE WELDED PIPE 67-01 M19-57908
N.D.T. APPLIED TO PIPELINE CONSTRUCTION AND OPERATION IN THE U.S.A. PT. 2
67-01 M19-58582
ULTRASONIC TESTING OF RESISTANCE WELDED JOINTS
67-02 M19-60138
ULTRASONIC DEFECTOSCOPY IN THE FABRICATION OF METAL STRUCTURES 67-02 M19-60194
TESTING OF SPOT WELDS 67-02 M19-60775
TESTS ON SPOT WELDED JOINTS 67-02 M19-61046
THE PRESENT STATUS OF METHODS OF NONDESTRUCTIVE TESTING OF WELDED JOINTS 67-02 M19-61265
ADD TWO PLUS ONE FOR NDT--ULTRASONIC VIEW OF A SPOT WELD, MAGNETIC FIELD WHERE ITS NEEDED, GETTING A WELD GUARANTEE ON GAS PIPELINE
67-02 M19-61647
NEW RESULTS IN ULTRASONIC WELD TESTING AND WALL THICKNESS MEASUREMENTS IN BOILER AND TUBING CONSTRUCTION 67-02 M19-62197
ULTRASONIC INSPECTION OF BUTT WELDS IN BOILER TUBES
67-03 M11-65055
REPORT ON THE PRESENT SCOPE OF NONDESTRUCTIVE TESTING OF RESISTANCE SPOT WELDS
67-03 M11-65450
FIBER OPTICS LOOK INTO A WELD 67-03 M19-65765
THE PRESENT SITUATION IN THE NON-DESTRUCTIVE TESTING OF WELDS 67-05 M19-68265
APPLYING NDT TO WELDS 67-05 M19-68688
CONTROLLING WELD QUALITY BY ULTRASONICS
67-05 M19-68806
QUALITY EVALUATION OF MISSILE STRUCTURE SPOT-WELDED JOINTS 67-05 M19-69087
RADIOGRAPHIC ANALYSIS AND STRENGTH OF WELDED JOINTS
67-06 M11-70035
IN-PROCESS QUALITY CONTROL OF ULTRASONIC WELDS IN COPPER SHEET 67-06 M11-70303
THE AUTOMATIC ULTRASONIC TESTING OF SPOT WELDS
67-06 M11-71222
OXYGAS AND INERT GAS WELDING OF ALUMINUM AND ALUMINUM ALLOYS 67-06 M11-71817
A BALANCED LOOK AT WELD INSPECTION
67-06 M19-70456
UNIT CHECKS SPOT WELDS WHILE THEYRE BEING MADE
67-06 M19-70718
NONDESTRUCTIVE TESTING BY MAGNETIC FLAW DETECTION
67-06 M19-70802
NONDESTRUCTIVE TESTING OF WELDS--ULTRASONIC AND RADIOGRAPHIC METHODS 67-06 M19-71234
CALCULATION OF THE STRENGTH OF WELDED STRUCTURES IN ALUMINUM ALLOYS UNDER STATIC AND DYNAMIC STRESS
67-06 M19-71834
ARE ALL WELD DEFECTS HARMFUL 67-07 M19-72514
DETECTION BY RADIOGRAPHY AND ULTRASONICS OF LACK FUSION IN WELDS IN PIPELINES MADE BY THE CO2 PROCESS 67-07 M19-73889
ULTRASONIC INSPECTION OF WELDED JOINTS IN BOILER TUBES 67-07 M19-73975
WELD-TESTING--OFFSHORE STRUCTURES
67-07 M19-74200
ULTRASONICS RECORDS WELD FLAWS 67-08 M19-74366
NDT APPLIED TO PIPELINE CONSTRUCTION AND OPERATION IN THE UNITED STATES. PT. 3 67-09 M11-77101
DOUBLE ULTRASONIC PROBE AIDS IN TUBE QUALITY CONTROL 67-09 M19-77150
NDT--THE KEY TO SUBMARINE WELD INTEGRITY
67-09 M19-77912
INFRARED EVALUATION OF MICROWELD QUALITY
67-10 M19-79747
THE FEASIBILITY OF ULTRASONIC INSPECTION OF CONTACT WELDED JOINTS IN BOILER PIPES
67-11 M19-80559
AUTOMATIC FLAW DETECTION OF WELDED JOINTS IN TUBES
67-12 M19-81920
NONDESTRUCTIVE TESTING OF COMPOSITE PARTS
67-12 M19-81935

WELDED JOINTS, PHASE TRANSFORMATIONS
PHASE TRANSFORMATION IN WELDED JOINTS OF VT15 ALLOY
67-01 M11-58204
THE USE OF IN SITU THERMAL ANALYSIS FOR STUDIES OF TRANSFORMATIONS IN STEELS DURING WELDING
67-12 M14-83497

WELDED JOINTS, PHASES /STATE OF MATTER/
PHASE COMPOSITION OF WELDED METAL OF LOW-ALLOY STEELS 67-06 M13-72301
INVESTIGATION OF THE PHASE COMPOSITION OF IRON-ALUMINUM WELDS 67-09 M13-76854
THE ALUMINUM BRONZES IN WELDED STRUCTURES
67-09 M14-77973
FERRITE IN AUSTENITIC STAINLESS STEEL WELDS
67-10 M13-79478
STRUCTURAL COMPONENTS OF WELD METALS IN LOW ALLOY STEELS 67-11 M13-81573

WELDED JOINTS, PHYSICAL PROPERTIES

CHARACTERISTICS OF AUTOMATIC ARC WELDING OF ALUMINUM TO COPPER WITH APPLICATION OF FLUXES 67-06 M11-71852

THE AUTOMATIC SUBMERGED ARC WELDING OF ALUMINIUM TO COPPER 67-11 M11-80884

WELDED JOINTS, QUALITY CONTROL

THE WELDING OF METALS--METHODS OF INSPECTING WELDED JOINTS 67-02 M19-61043

QUALITY CONTROL CRITERIA FOR ACCEPTANCE TESTING OF CROSS-WIRE WELDS 67-06 M11-70007

A RATIONAL APPROACH TO STANDARDS FOR WELDED CONSTRUCTION. PT. 3 67-09 M19-77543

METALLURGICAL IMPLICATIONS OF MODERN INSPECTION TECHNIQUES 67-10 M19-79306

WELDED JOINTS, REACTIONS /CHEMICAL/

DESIGN EVALUATION OF PRESSURE WELDING CONDITIONS 67-11 M11-80550

WELDED JOINTS, RECRYSTALLIZATION /METALLURGICAL/

THE PREPARATION OF WELD EDGES BY MEANS OF IMPACT CUTTERS AND WELD EDGE MOLDERS 67-06 M11-71220

WELDED JOINTS, SEALING

PRODUCING HIGH QUALITY RESISTANCE WELDS IN ALUMINUM AND MAGNESIUM 67-06 M11-72245

WELDED JOINTS, STANDARDS

A RATIONAL APPROACH TO STANDARDS FOR WELDED CONSTRUCTION 67-09 M11-76655

WELDED JOINTS, STRAIGHTENING

STRAIGHTENING WELDED SHEET PANELS ON ROLLS 67-02 M11-60838

WELDED JOINTS, STRESS RELIEVING

METHOD OF FINAL TREATMENT OF WELDED RAIL JOINTS 67-05 M10-69242

ANNEALING OF WELDED STRUCTURES 67-07 M11-72731

WELDED JOINTS, STRESSES

USING A COMPUTER FOR STUDYING STRESSED AND STRAINED STATE WHEN WELDING STRUCTURES FROM NARROW PLATES 67-01 M11-58271

RESIDUAL DEFORMATIONS AND STRESSES IN CIRCULAR WELDS OF PLATES AND SHELLS 67-06 M11-71648

RESIDUAL STRESSES AND STRAINS IN CIRCULAR WELDS IN PLATES AND SHELLS 67-10 M17-79617

WELDED JOINTS, THERMAL PROPERTIES

ARC WELDING THE EDGES --ENDS-- OF STEEL TUBES 67-01 M11-57525

THE WELDING OF GLASS-COATED MICROWIRE TO THICK GLASS-COATED CONDUCTORS 67-02 M11-60196

ARC HEATING OF THE ENDS OF STEEL TUBES 67-02 M11-61144

WELDED JOINTS, WARPAGE

WARPING OF EDGES IN WELDING THIN SHEET MATERIALS 67-01 M11-57371

INVESTIGATION OF HEAT EFFICIENCY OF COMPRESSED ARC WELDING OF THIN SHEET MATERIALS 67-06 M11-71643

DECREASING THE RESIDUAL DEFORMATIONS DURING ARC WELDING OF THERMALLY STRENGTHENED STEELS 67-07 M11-72734

THE THERMAL EFFICIENCY OF CONSTRICTED ARC WELDING ON THIN SHEET MATERIAL 67-10 M11-79610

WELDED JOINTS, WELDING

SELECTION OF THE OPTIMUM COMPOSITION OF AUSTENITIC CR-NI STEELS FOR WELDED STRUCTURES 67-06 M11-71854

WELDED JOINTS, X RAY ANALYSIS

VISUAL X-RAY INSPECTION OF WELDED JOINTS 67-05 M19-69046

STUDY OF DIFFUSION JOINTS OF SOME HETEROGENEOUS METALS BY X-RAY DIFFRACTION ANALYSIS 67-09 M11-77605

RADIOGRAPHY OF WELDMENTS 67-11 M19-80574

WELDERS

SEE WELDING MACHINES

WELDING

SEE ALSO ARC SEAM WELDING
ARC SPOT WELDING
ARC WELDING
AUTOMATIC WELDING
BRAZE WELDING
CARBON ARC WELDING
COLD WELDING
DIFFUSION WELDING
ELECTRIC WELDING
ELECTRON BEAM WELDING
ELECTROSLAG WELDING
EXPLOSIVE WELDING
FLASH WELDING
FLUX CORE WIRE WELDING
FOIL SEAM WELDING
FRICTION WELDING
FUSION WELDING
GAS METAL ARC WELDING
GAS TUNGSTEN ARC WELDING
GAS WELDING
INDUCTION WELDING
INERT GAS WELDING
LASER BEAM WELDING
MAGNETIC FORCE WELDING
MASH SEAM WELDING
OXYACETYLENE WELDING
PERCUSSION WELDING
PLASMA ARC WELDING
PRESSURE GAS WELDING
PRESSURE INDUCTION WELDING
PRESSURE WELDING
PROJECTION WELDING
PULSATION WELDING
RESISTANCE SEAM WELDING
RESISTANCE SPOT WELDING
RESISTANCE WELDING
ROLL WELDING
SEAM WELDING
SHIELDED ARC WELDING
SHIELDED METAL ARC WELDING
SPOT WELDING
STUD WELDING
SUBMERGED ARC WELDING
THERMIT WELDING
ULTRASONIC WELDING
UNDERWATER WELDING
UNSHIELDED ARC WELDING
UPSET WELDING
VACUUM WELDING

EXTRACTION METALLURGY 67-01 M01-58663

THE USE OF EXPLOSIVE ENERGY IN THE DEFORMATION AND WELDING OF METALS 67-01 M07-57990

WELDING IN THE CONSTRUCTION OF PRESSURE VESSELS FOR REACTORS. PT. 1. VESSELS FOR INDUSTRIAL NUCLEAR REACTORS 67-01 M11-57146

EVALUATION OF STAINLESS STEEL CASTING ALLOYS FOR CRYOGENIC SERVICE IN THE 80-INCH LIQUID-HYDROGEN BUBBLE CHAMBER 67-01 M11-57622

FOR AUSTENITIC STAINLESS WIRES--LIMIT THE LIMITS 67-01 M11-58017

WIRE AND ROD FOR WELDING ALUMINUM AND ITS ALLOYS. TECHNICAL SPECIFICATIONS FOR PRODUCTION AND DELIVERY 67-01 M11-58141

LASER WELDING--THREE IMPOSSIBLE JOBS 67-01 M11-58651

PICK BRONZE FOR JOINING VERSATILITY. PT. 1 67-01 M11-58652

FOR YOUR WELDING PROGRAM--DONT PLAY IT BY EAR 67-01 M11-58760

WELDS AND CRACKS 67-01 M17-57220

EFFECT OF WELDING ON MECHANICAL PROPERTIES OF HEAT TREATED LOW-ALLOY STEEL 67-01 M17-57387

WELDED JOINTS BETWEEN FERRITIC AND AUSTENITIC STEELS 67-02 M11-59726

USE OF LOW ALLOY STEELS IN THE MANUFACTURE OF TOOTHED WHEELS BY MECHANICAL WELDING 67-02 M11-60610

METHOD SELECTION AND VARIABLES FOR BUTT WELDING GRAY IRON 67-02 M11-60890

FIVE YEARS OF SUCCESSFUL RECONDITIONING OF WORN COMPONENTS AT THE LOCOMOTIVE WORKS AT SUMPERK 67-02 M11-61050

WELDING IN THE CONSTRUCTION OF HIGH-PRESSURE VESSELS FOR REACTORS. PT. 2. STEELS FOR REACTOR BOILERS 67-02 M11-61056

PROCEDURES FOR WELDING CONSTRUCTIONAL STEELS 67-02 M11-61653

STEEL SWIMMING POOLS 67-02 M20-60040

ACID-RESISTANT STEELS AND THEIR DEVELOPMENT 67-02 M20-61055

HOW TO USE EXOTIC MATERIALS IN AEROSPACE STRUCTURES 67-02 M20-61623

WELDING OF SPECIAL AND COMMON STEEL PIPE 67-03 M11-65062

WHY WELD CAST IRON 67-03 M11-65176

WELDING GALVANIZED TUBES TO CARBON STEEL TUBE SHEET 67-03 M11-65300

FOUNDATION OF NATIONAL RESEARCH INSTITUTE FOR METALS, PROCEEDINGS 67-04 M01-67539

THE QUALITY OF ELECTRICALLY WELDED TUBE AS RELATED TO THE FLAT ANISOTROPY OF THE HOT ROLLED STRIP 67-04 M07-68148

WHICH WELD FOR WHAT JOB AND WHEN. PT. 2

67-04 M11-66699
WELDING TECHNOLOGY USED TO REPAIR PASSENGER AND FREIGHT CARS OF THE GERMAN FEDERAL RAILWAYS 67-04 M11-66914
PICKING A PROCESS TO WELD ALUMINUM 67-05 M11-68481
IMPROVING THE TECHNOLOGY OF WELDING AND REDUCING THIN-WALLED GAS PIPES ON CONTINUOUS FURNACE BUTT WELDING MILLS 67-05 M11-68552
THE AUTOGENOUS TECHNIQUES-INCREASING APPLICATION TO REINFORCING CONCRETE CONSTRUCTION 67-05 M20-69350
INFRARED TEMPERATURE CONTROL GIVES BETTER WELDS 67-06 M11-70004
METALS JOINING 67-06 M11-71821
EXAMPLES OF WELDING TECHNOLOGY EMPLOYED IN NUCLEAR REACTOR CONSTRUCTION 67-06 M11-72037
FRACTURED MACHINERY RESTORED BY CYCLIC WELDING 67-06 M11-72315
SENDZIMIR-GALVANIZED WIDE STRIP--APPLICATIONS AND PROCESSING 67-06 M12-71565
WELDED MEDIUM TENSILE STEEL IN MURRAY 1 PIPELINE 67-06 M17-71590
IMPROVING THE METHOD OF WELDING AND REDUCING THIN-WALLED GAS AND WATER PIPES ON BENCHES FOR CONTINUOUS FURNACE BUTT WELDING 67-07 M11-72463
THE DEVELOPMENT OF ALUMINUM ALLOYS HAVING HIGH STRENGTH IN THE WELDED CONDITION 67-07 M11-74031
WELDABLE AUSTENITIC MATERIALS FOR THE TEMPERATURE RANGE FROM 500 TO 700 C 67-08 M11-74449
WELDING 67-08 M11-74849
SOME CONSIDERATIONS OF ADVANCED WELDING TECHNOLOGY 67-08 M11-75364
WELDING OF ALUMINUM AND ALUMINUM ALLOYS 67-09 M11-76459
WELDING THE MARAGING STEELS 67-09 M11-76638
A RATIONAL APPROACH TO STANDARDS FOR WELDED CONSTRUCTION 67-09 M11-76655
BONDING OF ALUMINUM BY THE CAPACITOR DISCHARGE MAGNETIC FORMING PROCESS 67-09 M11-77948
MECHANICAL PROPERTIES OF COMBINATION WELDED JOINTS IN THE REPAIR OF AUTOMOBILE COMPONENTS 67-09 M17-77613
THE INFLUENCE OF DELTA FERRITE ON THE CORROSION BEHAVIOR OF WELD DEPOSITS MADE WITH AUSTENITIC FILLER MATERIALS 67-09 M18-77340
AUTOMATED WELDING SETUP SPEEDS BOMB PRODUCTION 67-10 M11-78602
WELDING HELPS MAKE PIPERS PAWNEE ONE OF THE SAFEST PLANES 67-10 M11-78661
WELDING IN THE BRITISH MOTOR INDUSTRY 67-10 M11-78794
WELDING IN U.K. SHIP CONSTRUCTION 67-10 M11-78798
WELDING IN ELECTRONICS 67-10 M11-78799
EFFECT OF BLASTING STRIP EDGES ON WELD SEAM QUALITY IN TUBES MADE BY CONTINUOUS FURNACE WELDING 67-10 M11-78973
SPHERICAL CONTAINERS FOR THE STORAGE OF LIQUEFIED GAS 67-10 M11-79056
SPECIAL WELDING COMPOUND ADVANCES QUALITY 67-10 M11-79202
THE APPLICATION OF RECENT WELDING TECHNIQUES TO HEAVY FABRICATIONS 67-10 M11-79305
HOW TO USE COVERED ELECTRODES 67-10 M11-79759
ELECTRON BEAMS ON THE MOVE 67-11 M01-80767
JOINING 67-11 M11-80482
CAST AND WELDED STEEL STRUCTURES 67-11 M20-81130
VACUUM PRESSING OF HEAT RESISTANT METALS 67-12 M08-83024
WELDING RING SEAMS IN SMALL-DIAMETER PIECES IN 38KHS STEEL BY AUTOMATIC SUBMERGED ARC OR IN CO2 67-12 M11-81916
DUCTILE INSERT FOR WELDING STEEL TO ALUMINUM 67-12 M11-82075
NEW TECHNIQUES OF MANUFACTURING BRASS CONDENSER TUBING 67-12 M11-82494
SENDZIMIR-GALVANIZED SHEET. USE AND APPLICATIONS 67-12 M12-83131

WELDING, CRYOGENICS
SUCCESSFUL WELDING FOR LOW TEMPERATURE SERVICE 67-03 M11-65297

WELDING, DEFORMATION
MEASURES TO REDUCE DEFORMATIONS TAKING PLACE IN SHEET METAL SHIP SUPERSTRUCTURES DURING WELDING 67-01 M11-57159

WELDING, HEATING EFFECTS
MAKING THE MOST OF HEAT TREATING EQUIPMENT 67-01 M10-58013

WELDING CURRENT
CONSISTENCY OF PULSED ARC WELDING WITH A CONSUMABLE ELECTRODE 67-04 M11-66464
THE CONTROL OF WELDING TIME IN RELATION TO THE PATTERN OF RESISTANCE BETWEEN ELECTRODES 67-07 M11-73712
PRELIMINARY STUDIES OF SHORT-CIRCUITING ARC WELDING OF HY-80 STEEL 67-08 M11-76072
CONCERNING THE TRAVEL RATE OF THE WELDING ARC IN A MAGNETIC FIELD 67-10 M11-78403
WELDING OF AL AND ITS ALLOYS 67-10 M11-79795
AN INVESTIGATION INTO THE MANUFACTURE OF ROUND STEEL CHAINS FABRICATED BY MEANS OF BUTT-SEAM RESISTANCE WELDING 67-11 M11-80510
EFFECTS OF THE WELDING RATE ON ARC SELF-REGULATION DURING THE AUTOMATIC SUBMERGED ARC WELDING OF ALUMINIUM 67-11 M11-80876
PARAMETERS AFFECTING ELECTRON BEAM WELDING 67-12 M11-82500
SOME CHARACTERISTICS OF PULSATION ARC WELDING WITH CONSUMABLE ELECTRODE IN ARGON 67-12 M11-82623
SHORT CYCLE PROJECTION STUD WELDING 67-12 M11-82817
CURRENT PENETRATION SEAM WELDING--A NEW HIGH SPEED PROCESS 67-12 M11-82818
THERMAL EFFICIENCY OF A FAST-MOVING ARC 67-12 M11-83183

WELDING CURRENT, ADJUSTMENT
INFLUENCE OF THE WELDING RATE ON SELF-ADJUSTMENT OF ARC DURING SUBMERGED ARC WELDING OF ALUMINUM 67-06 M11-71844

WELDING ELECTRODES
SEE ALSO COATED ELECTRODES
WELDING RODS
STATE AND DEVELOPMENT OF WELDING MATERIAL MANUFACTURE 67-01 M11-57145
AN ELECTRODE FOR WELDING ACID-RESISTANT STEELS 67-01 M11-57681
PICK BRONZE FOR JOINING VERSATILITY. PT. 1 67-01 M11-58652
STUDY ON PREVENTIVE METHOD FOR WELD CRACKS OF 405 CLAD STEEL BY 13 CR STAINLESS STEEL ELECTRODE 67-01 M11-58698
THE NARROW-GAP MIG WELDING PROCESS FOR THICK STEEL PLATES 67-01 M11-58699
A NEW TYPE OF ELECTRODE FOR DEPOSITING CAST MANGANESE-ALUMINUM BRONZE 67-01 M12-57158
INFLUENCE OF COMPOSITION OF CAST IRON DEPOSIT WELDS ON ITS HEAT RESISTANCE 67-01 M12-57392
TEMPERATURE FIELD AND SCHEDULES FOR ARC-DEPOSIT WELDING WITH A TAPE ELECTRODE 67-01 M12-58186
STRUCTURE AND PROPERTIES OF HIGH-MANGANESE METAL BUILT-UP BY A POWDER WELDING WIRE 67-01 M17-57391
INFLUENCE OF ALLOYING ELEMENTS ON MECHANICAL PROPERTIES OF BASIC WELD DEPOSITED METAL. PT. 2. STRESS RELIEF ANNEALING 67-01 M17-57911
WIRE AND ROD FOR WELDING STANNOUS BRONZE--TECHNICAL SPECIFICATIONS FOR PRODUCTION AND DELIVERY 67-02 M11-58865
REPORTS ON THE BEHAVIOR OF TUNGSTEN ELECTRODES IN TIG WELDING 67-02 M11-59758
A TUNGSTEN ELECTRODE FOR THE ARGON TUNGSTEN ARC WELDING OF METALS 67-02 M11-59800
WELDING OF STEEL STRIP IN THE PRODUCTION OF CORED ELECTRODES 67-02 M11-60017
PROPERTIES OF TUNGSTEN ELECTRODES USED IN TIG WELDING 67-02 M11-60102
SPECIAL FEATURES INVOLVED IN WELDING STEEL STRUCTURES AT LOW TEMPERATURES 67-02 M11-60200
THE RESISTANCE OF CHROMIUM-NICKEL WELDS TO GAS CORROSION IN AN ATMOSPHERE CONTAINING SULFUR COMPOUNDS 67-02 M11-61057
WELDING ST. 3 STEEL TO KH18N10T STEEL WITH UONI-13/45 ELECTRODES 67-02 M11-61266
SUBMERGED ARC WELDING WITH STRIP ELECTRODES 67-03 M11-65190
GAS SHIELDED ARC WELDING WITH SOLID FLUX-CORED TUBULAR WIRE 67-03 M11-65446
AUTOMATIC SURFACE CLADDING WITH STRIP ELECTRODES 67-03 M12-65814
TST-23 ELECTRODES FOR WELDING KH16N14V2BR TYPE STEELS 67-04 M11-66466

SELECTION OF FILLER METAL FOR ARC WELDING
67-04 M11-66560
INVESTIGATION OF THE FORM OF THE ELECTRODE SHAPE IN SPOT WELDING OF ALUMINUM ALLOYS
67-04 M11-66807
WELDABILITY OF AISI 321 STAINLESS STEEL TUBES WITH SECHERON ELECTRODES 67-04 M11-67220
MECHANIZED BUILDUP OF VANES OF RADIAL-AXIAL HYDROTURBINE GEARS 67-04 M12-66573
WELDING STEEL ST. 3 TO STEEL KH18N10T WITH UONI-13/45 ELECTRODES 67-05 M11-68266
COVERED ELECTRODES. PT. 1 67-05 M11-68310
A NEWLY DEVELOPED COVERED ARC WELDING ELECTRODE LM-40 FOR LOW-TEMPERATURE SERVICE
67-05 M17-69368
ELECTRODE FOR WELDING COPPER 67-06 M11-70205
AVOID CONFUSION OF ELECTRODES 67-06 M11-71577
WELDING HEAT-RESISTANT CERMET COPPER-BASE ALLOYS WITH CAST COPPER BY THE DYNAMIC PRESSURE METHOD
67-06 M12-70777
THE SUBMERGED ARC WELDING OF BUILT-UP FACINGS WITH FLAT STRIP ELECTRODE MATERIAL
67-07 M12-72419
THE MECHANISED BUILDING UP OF RADIAL-AXIAL FLOW HYDRAULIC TURBINE RUNNER BLADES
67-07 M12-73430
THE BEHAVIOR OF WELDING ELECTRODES AND INERT GASES IN WELDING 67-08 M11-74929
WELDING OF COPPER WITH DEEP PENETRATION ELECTRODES
67-08 M11-75360
THE SHAPE OF ELECTRODES FOR SPOT WELDING ALUMINIUM ALLOYS 67-08 M11-75911
A C WELDING OF 9 PER CENT NICKEL STEEL CRYOGENIC VESSELS 67-08 M11-76066
TRUE ALL-POSITION ELECTRODES TAKE ONE GIANT STEP
67-09 M11-76639
THE WELDING OF GALVANIZED STEEL AND ZINC RICH PAINTED STEEL 67-09 M11-77658
DEVELOPMENT OF PROCEDURES FOR WELDING HY-130 --T-- STEEL 67-09 M11-78147
GUIDELINES FOR SELECTING GAS METAL ARC WELDING METHODS 67-10 M11-78622
PORTEVIN LECTURE--WELDING AND SPECIAL ELECTROMETALLURGY 67-12 M01-83212

WELDING ELECTRODES, HEAT TREATMENT
CU-CR-ZR ALLOYS FOR WELDING ELECTRODES
67-02 M11-60213

WELDING ELECTRODES, MATERIALS
NEW CONDUCTOR COPPER ALLOYS, PRINCIPLES OF ALLOYING, PROPERTIES AND APPLICATIONS
67-02 M11-60546
CHROMIUM BRONZE AND ITS USE 67-04 M17-67141

WELDING ELECTRODES, MECHANICAL PROPERTIES
CU-CR ALLOYS FOR RESISTANCE WELDING ELECTRODES
67-02 M11-58998

WELDING ELECTRODES, QUALITY CONTROL
PROPOSED METHOD OF CHARPY-V IMPACT TESTING AT LOW TEMPERATURES FOR APPROVAL OF ELECTRODES FOR USE ON MILD STEEL AND LOW-ALLOY STRUCTURAL STEELS
67-12 M11-83213

WELDING FLUXES
AN ELECTRODE FOR WELDING ACID-RESISTANT STEELS
67-01 M11-57681
NEW ADDITION MATERIALS FOR SUBMERGED ARC WELDING
67-01 M11-58620
PROPOSAL FOR A CLASSIFICATION OF WELDING WIRES AND FLUXES FOR SUBMERGED ARC WELDING
67-02 M11-59759
INFLUENCE OF SOME REFRACTORY COMPOUNDS ON THE PROPERTIES OF HARD SURFACED METAL
67-02 M11-60185
HIGH PRESSURE FEEDWATER HEATERS WELDED QUICKLY AND MORE EFFICIENTLY WITH SEMIAUTOMATIC PROCESS
67-02 M11-61579
STEEL WELDING UNDER CARBON DIOXIDE AND OTHER INERT GASES 67-04 M11-66671
APPLICATION POSSIBILITIES OF MECHANIZED WELDING USING METALLIC POWDER 67-04 M11-67219
WELDING HIGH-ALLOYED STAINLESS STEELS UNDER CERAMIC FLUX 67-05 M11-69407
FLUX FOR WELDING LIGHT METALS AND THEIR ALLOYS
67-06 M11-70151
CERAMIC FLUX FOR WELDING ALUMINUM
67-06 M11-70152
FLUX FOR WELDING LIGHT ALLOYS FOR INSTANCE, TITANIUM AND ITS ALLOYS 67-06 M11-70153
FOR THAT FINAL SUBMERGED ARC ECONOMY--RECOVER THE FLUX
67-06 M11-71572
ANK-18 CERAMIC FLUX FOR MECHANIZED WEAR RESISTANT BUILDUP
67-08 M11-75414
TRIAL SUBMERGED ARC WELDING, USING WELDING FLUX, GRAU L
67-08 M11-75938
NONWELDING CONTACT MATERIALS FOR HEAVY CURRENT APPLICATIONS 67-09 M11-77997
THE SUBMERGED ARC WELDING OF HIGH ALLOY STAINLESS STEELS WITH CERAMIC FLUXES 67-10 M11-78511
ONE-SIDE WELDING IS ON ITS WAY 67-10 M11-80095
THE ANK-18 CERAMIC FLUX FOR THE MECHANISED DEPOSITION OF WEAR RESISTANT METAL
67-12 M11-82035

WELDING FLUXES, HYGROSCOPICITY
NONHYGROSCOPIC FLUX FOR WELDING TITANIUM AND ITS ALLOYS 67-02 M11-61254

WELDING FLUXES, PHYSICAL PROPERTIES
A NON-HYGROSCOPIC FLUX FOR WELDING TITANIUM AND ITS ALLOYS 67-04 M11-66528

WELDING MACHINES
SEE ALSO ARC WELDING MACHINES
ELECTRIC WELDING MACHINES
ELECTRON BEAM WELDERS
RESISTANCE WELDING MACHINES
SPOT WELDERS
ULTRASONIC WELDERS
ALL SYSTEMS ARE GO FOR EB WELDING
67-01 M11-57434
WELDING THE RAILS OF A SEAMLESS TRACK IN RAILROADS WHICH ARE UNDER CONSTRUCTION
67-01 M11-58215
TWO-IN-ONE STUD WELDER SAVES RESETTING
67-01 M11-58552
AN ELECTRONICALLY CONTROLLED METHOD OF RESISTANCE WELDING THE ENDS OF HEAT EXCHANGER TUBES INTO THE HOLES IN END PLATES 67-02 M11-59648
A CONTINUOUS COMBINED PULSE GENERATOR FOR MICROWELDING 67-02 M11-59789
FLASH WELDING AT THE GORKY AUTOMOBILE WORKS
67-02 M11-60007
WELDING OF STEEL STRIP IN THE PRODUCTION OF CORED ELECTRODES 67-02 M11-60017
CAPACITOR DISCHARGE MACHINES FOR SPOT-WELDING OF LIGHT ALLOYS 67-02 M11-60018
NEW GUNS FOR ARGON ARC WELDING OF TITANIUM PARTS
67-02 M11-60135
A VIBROARC METAL DEPOSITION HEAD
67-02 M11-60187
EXPERIENCE OF PRODUCING NEW WELDING EQUIPMENT
67-02 M11-60193
INVESTIGATION OF A BUTT WELDING MACHINE AND THE WELDING CONDITIONS FOR WELDING CONTINUOUS BILLETS IN A 350-2 MILL 67-02 M11-60197
A PULSED ARC WELDING APPARATUS 67-02 M11-60785
APPARATUS FOR WELDING BIMETALLIC CONTACTS
67-02 M11-60941
WELDING EQUIPMENT AND APPARATUS
67-02 M11-61042
A MICROWELDING MACHINE FOR THE PRODUCTION OF SEMICONDUCTOR COMPONENTS 67-02 M11-61049
SELECTION OF POWER SOURCES FOR VIBROARC METAL DEPOSITION 67-02 M11-61058
WELDING THIN-WALLED STAINLESS STEEL TUBES BY BUTT SPIRAL SEAMS 67-02 M11-61269
ELECTRON BEAM BUTT WELDING OF 5254 ALUMINUM ALLOY PRESSURE VESSEL 67-04 M11-67626
MAGNETIC FORCE WELDING TAMES EXOTICS
67-04 M11-67632
TORCHES FOR THE TIG WELDING OF TITANIUM PRODUCTS
67-04 M11-67675
ADAPTIVE SPOT WELDING ARRICES 67-06 M11-70644
MECHANIZED VERTICAL WELDING UTILIZING THE GAS METAL-ARC PROCESS 67-06 M11-71679
MULTIELECTRODE PLUG WELDING 67-07 M11-72737
FORD READIES EB WELDER FOR PRODUCTION
67-07 M11-73307
INERTIA WELDING HITS METALWORKING MARKET
67-07 M11-73310
SIMPLE DEVICES FOR AUTOMATIC SHORT WELDS
67-10 M11-79173
MULTI-ELECTRODE ARC SPOT WELDING
67-12 M11-82316
A MACHINE FOR PULSATION ARGON ARC WELDING OF STATIONARY THICK-WALLED TUBES
67-12 M11-83190
PRODUCTION OF CURRENT PULSES FOR GAS-SHIELDED ARC WELDING 67-12 M11-83207

WELDING MACHINES, AUTOMATIC CONTROL
COMBINED CONTACTLESS DIFFERENTIAL DEVICE FOR DIRECTING THE WELDING HEAD ALONG THE BUTT WELD
67-09 M11-78119

WELDING MACHINES, CONTROL EQUIPMENT
AN AUTOMATIC CONTACTLESS METHOD FOR TRACKING A WELD JOINT 67-02 M11-61065
WELDING MACHINES, DESIGN
PORTABLE WELDER 67-01 M11-57677
COMPARISON OF WELDING MACHINE DESIGNS AND A CRITICAL REVIEW OF THEIR APPLICATIONS 67-06 M11-72064
WELDING MACHINES, NUMERICALLY CONTROLLED MACHINES
NC SPOTWELDING TO RIGID SPECS 67-06 M11-71931
WELDING RODS
ROD FOR WELDING GUN METAL. TECHNICAL SPECIFICATIONS FOR PRODUCTION AND DELIVERY 67-01 M11-57994
WIRE AND ROD FOR WELDING ALUMINUM AND ITS ALLOYS. TECHNICAL SPECIFICATIONS FOR PRODUCTION AND DELIVERY 67-01 M11-58141
INVESTIGATION OF HARDFACING RODS OF CHROMIUM CARBIDE ALLOY 67-02 M09-62134
PROPOSAL FOR A CLASSIFICATION OF WELDING WIRES AND FLUXES FOR SUBMERGED ARC WELDING 67-02 M11-59759
WELDING METALLURGY OF RUTILE ELECTRODES 67-04 M11-67420
NEW ELECTRODES FOR WEAR RESISTING HARDFACING 67-04 M11-67993
AUTOMATIC WELDING OF OKH13 STEEL IN CO2 67-06 M11-71850
USE OF EP-389 WIRE FOR AUTOMATIC WELDING OF CLAD STEELS USED FOR CHEMICAL AND OIL REFINING APPARATUS 67-06 M11-71851
HARDNESS OF HARD SURFACING ALLOYS AT ELEVATED TEMPERATURES 67-06 M11-72331
THE AUTOMATIC CO2 WELDING OF GRADE OKH13 STEEL 67-11 M11-80882
THE AUTOMATIC WELDING OF CLAD STEELS USING EP-389 ELECTRODE WIRE 67-11 M11-80883
ALL YOU NEED TO KNOW ABOUT TUNGSTEN ELECTRODES 67-12 M11-82658
HIGH-EFFICIENCY ELECTRODES FOR WELDING STAINLESS STEELS 67-12 M11-83280
APPLICATION OF CR-NI-MO WELDING RODS WITH STABLE AUSTENITE FOR HIGH-STRENGTH WELDMENTS 67-12 M11-83292
WELDING RODS, CHEMICAL COMPOSITION
TST-23 ELECTRODES FOR WELDING TYPE KH16N14V2BR HEAT-RESISTANT STEELS 67-02 M11-59517
WELDING RODS, CLEANING
PROTECTION FROM ACID AND ACID FUME CORROSION IN A WIRE MILL 67-02 M18-58975
WELDING RODS, COATING
INFLUENCE OF SOME REFRACTORY COMPOUNDS ON THE PROPERTIES OF HARD SURFACED METAL 67-02 M11-60185
INFLUENCE OF IRON POWDER IN THE ELECTRODE COATING ON GRAIN SIZE AND DUCTILITY OF WELDED JOINTS 67-02 M17-61247
THE EFFECTS OF IRON POWDER IN ELECTRODE COATINGS ON WELDED JOINTS 67-04 M17-66519
MOISTURE-REPELLANCY OF FLUOROCALCIUM-TYPE ELECTRODE COATINGS 67-08 M12-75415
EFFECT OF SOME OF THE HIGH-MELTING COMPOUNDS ON THE PROPERTIES OF A WELD-ON ALLOY 67-09 M11-76918
WATER REPELLANT CALCIUM FLUORIDE ELECTRODE COATINGS 67-12 M12-82036
WELDING RODS, MANUFACTURING
NEW ELECTRODES FOR WEAR-RESISTANT BUILDUP 67-02 M11-60836
WELDING RODS, MATERIALS
A NICKEL-BASE ALLOY 67-05 M11-69235
WELDING RODS, STRUCTURAL MATERIALS
DRY GRINDING OF FERROMAGANESE IN A NITROGEN ATMOSPHERE 67-09 M09-78129
STUDY OF THE WELDING PROPERTIES OF SV-08G2S WIRE OF CONVERTER PRODUCTION 67-09 M11-77609
WELDING RODS, THERMAL PROPERTIES
HEAT CONTENT OF ELECTRODE METAL DROPLETS DURING SHIELDED ARC WELDING 67-06 M15-71843
THE HEAT CONTENTS OF THE DROPLETS OF ELECTRODE METAL IN GAS SHIELDED ARC WELDING 67-11 M15-80875
WELDING RODS, WELDING
SELECTION OF THE OPTIMUM COMPOSITION OF AUSTENITIC CR-NI STEELS FOR WELDED STRUCTURES 67-06 M11-71854
WELDMENT STRENGTH
SEE MECHANICAL PROPERTIES WELDMENTS
WELDMENTS
STRENGTH OF WELDED MULTILAYER HIGH-PRESSURE VESSELS 67-01 M17-58208
SELECTION OF STEEL GRADES FOR STEEL CONSTRUCTION AND RELATED APPLICATIONS 67-02 M11-60103
SURVEY OF EXPERIENCES WITH WELDED STEEL IN LOW-TEMPERATURE APPLICATIONS 67-04 M11-68022
THE WELDABLE STEELS OF THE DIAMANT ROCKET. REMARKS ON THE WELDABILITY OF THESE STEELS 67-05 M11-69327
ON THE WELDABILITY OF 9 PER CENT NI STEEL, NLT 9N 67-05 M17-69365
WELDING KEEPS APOLLO ON SCHEDULE 67-06 M11-71573
HEAT TREATMENT AS AN AID TO WELDING 67-06 M11-71940
WELDMENTS, CORROSION
STUDY OF CORROSION OF WELDED ALZNMG ALLOY 67-01 M18-58364
CORROSION BEHAVIOR OF STEEL WELDMENTS 67-01 M18-58394
PRACTICAL TESTING OF STEELS IN EQUIPMENT CONSTRUCTION 67-02 M17-60019
REDUCING THE DEGREE TO WHICH WELDS IN CARBON AND STAINLESS STEELS ARE CORRODED IN ACID SOLUTIONS 67-02 M18-59792
PROBLEMS RELATED TO THE WELDING OF LOW-CARBON AUSTENITIC STAINLESS STEELS 67-04 M18-66641
THE TESTING OF WELDS FOR INTERCRYSTALLINE STRESS CORROSION 67-04 M18-67705
COMPATIBILITY OF ATLAS MATERIALS WITH FLUORINE PROPELLANTS 67-09 M18-77564
WELDMENTS, CRACKING /FRACTURING/
CRACKING OF BEADS 67-01 M11-58353
WELDMENTS, HEAT TREATMENT
STRESS RELIEVING GOES UNDERGROUND 67-07 M10-73694
CRYOGENIC QUENCHING 67-07 M10-74225
WELDMENTS, MAGNETIC PROPERTIES
INVESTIGATING MATERIALS OF LOW MAGNETIC PERMEABILITY 67-02 M15-58979
WELDMENTS, MECHANICAL PROPERTIES
WELDING HEAT-RESISTANT CHROMIUM STEEL EI756 67-01 M11-58212
WELDING ALUMINUM ALLOY 7039 67-01 M11-58775
DEVELOPMENT OF FILLER METALS FOR WELDING AL-ZN-MG ALLOY 7039 67-01 M11-58776
WELDING OF QUENCHED AND TEMPERED 9NI-4CO STEELS 67-01 M11-58777
SOME PARAMETERS OF CONTACT DEPOSIT ELECTROWELDING 67-01 M12-57397
BRITTLE FRACTURES 67-01 M17-58352
THE EFFECTS OF OXYGEN ON THE MECHANICAL AND CORROSION PROPERTIES OF HAFNIUM 67-01 M17-58457
FLASH-BUTT WELDING FOR RAILS OF NEW TOKAIDO TRUNK LINE 67-02 M11-60168
WELDING OF LOW TEMPERATURE STEEL. PT. 2. SUBMERGED-ARC WELDING OF YND33 STEEL 67-02 M11-60169
WELDING OF STEEL FOR LOW-TEMPERATURE SERVICE. PT. 3. YND-37 STEEL, YND-58 STEEL AND 9 PER CENT NI STEEL 67-02 M11-60170
INFLUENCE OF WELDING HEAT ON MECHANICAL PROPERTIES OF ATSM ALLOY 67-02 M11-61264
PROBLEMS IN WELDING HIGH-STRENGTH STEELS 67-02 M17-59966
SOME NOTES ON THE MANUAL ARC WELDING OF LOW-TEMPERATURE HIGH-STRENGTH STEELS 67-02 M17-60106
REPORTS ON BRITTLE FRACTURES 67-03 M11-65448
THE TRUE DESIGN STRENGTH OF MATERIALS AND JOINTS 67-03 M17-65670
TWO-SIDED TRIPLE-LAYER WELDING OF SPIRAL-SEAMED TUBES, 1020 MM DIAMETER 67-04 M11-66435
STEEL WELDING UNDER CARBON DIOXIDE AND OTHER INERT GASES 67-04 M11-66671
THE INFLUENCE OF RESIDUAL STRESSES ON THE FUNCTIONAL STABILITY OF WELDED STRUCTURES 67-04 M11-67071
WELDABILITY OF AISI 321 STAINLESS STEEL TUBES WITH SECHERON ELECTRODES 67-04 M11-67220
CRACKS AND MICROFISSURES--WELD DEPOSITS 67-04 M17-67493
EFFECTS OF NONMETALLIC INCLUSIONS ON MECHANICAL PROPERTIES OF ELECTRIC RESISTANCE WELDED STEEL TUBES 67-04 M17-67514
CREEP RUPTURE PROPERTIES OF LARGE WELDED SPECIMENS 67-04 M17-67587
LOW-CYCLE FATIGUE OF STEEL STRUCTURES 67-04 M17-68020

FATIGUE FRACTURES 67-04 M17-68024
FATIGUE STRENGTH OF ALUMINUM ALLOYS 67-04 M17-68036
THE INFLUENCE OF WELDING HEAT ON THE MECHANICAL PROPERTIES OF ALLOY ATSM 67-05 M11-68264
BRITTLE FRACTURE INITIATION CHARACTERISTICS FOR WELD HEAT AFFECTED ZONE OF 9 PER CENT NI STEEL 67-05 M17-69367
BRIGHT FUTURE FOR ALUMINUM WELDING 67-06 M01-70677
PLATES OF AUSTRIAN SPECIAL STEELS FOR WELDED CONSTRUCTION 67-06 M11-70459
WELDABILITY OF TITANIUM ALLOY SHEETS 6AL-6V-2SN AND 8AL-1MO-1V 67-06 M17-70138
COMPARISON OF CALCULATED AND MEASURED STRESSES FOR A TENSION BAR WITH WELDED-ON CIRCULAR STRAPS 67-07 M17-72424
WELDING OF ALPHA-BETA TITANIUM ALLOYS IN ONE INCH PLATE 67-08 M11-76069
MECHANICAL CHANGES IN THE SURFACE OF SPOT WELDED DEEPDRAWN STEEL 67-08 M17-74558
A RATIONAL APPROACH TO STANDARDS FOR WELDED CONSTRUCTION. PT. 2 67-08 M17-74799
AN INVESTIGATION OF THE MECHANICAL PROPERTIES AND MICROSTRUCTURES OF 18NI --250-- MARAGING STEEL WELDMENTS 67-08 M17-75967
WELDING OF ALUMINUM AND ALUMINUM ALLOYS 67-09 M11-76459
WELDING THE MARAGING STEELS 67-09 M11-76638
TRUE ALL-POSITION ELECTRODES TAKE ONE GIANT STEP 67-09 M11-76639
THE INFLUENCE OF TITANIUM ON THE ELECTROSLAG WELDING OF STEEL 67-09 M11-77341
FRACTURE OF WELDS IN PARTS MADE OF STEEL WITH A HIGH YIELD STRENGTH 67-09 M17-76899
EFFECT OF AGING ON THE TENSILE PROPERTIES OF ALLOY 7039 GTA WELDS AT LOW TEMPERATURES 67-09 M17-77489
MECHANICAL PROPERTIES OF SEVERAL NICKEL-BASE ALLOYS AT ROOM AND CRYOGENIC TEMPERATURES 67-09 M17-78271
A STATISTICAL ANALYSIS OF ALUMINUM WELDS TESTED AT CRYOGENIC TEMPERATURES 67-10 M17-78477
REPORTS ON BRITTLE FRACTURES 67-12 M11-83214

WELDMENTS, MECHANICAL TESTS
THE ASSESSMENT OF WELDING DEFECTS BY FATIGUE TESTS 67-02 M11-60105
AUTOMATIC INDENTER FOR DETERMINING THE QUALITY OF WELDS BY COMPARATIVE METHOD 67-06 M19-70371

WELDMENTS, METAL WORKING
THE STRAIGHTENING OF WELDED STRUCTURAL PARTS OF THE ALZNMG1 AL ALLOY 67-04 M07-68001

WELDMENTS, MICROSTRUCTURE
METALLOGRAPHIC INVESTIGATION OF SHOCK WELDED METALS BY ELECTRON MICROSCOPY 67-05 M13-69166

WELDMENTS, NONDESTRUCTIVE TESTING
THE CONTINUOUS ULTRASONIC INSPECTION OF ELECTRORESISTANCE WELDED TUBING 67-02 M19-58850
PROSPECTUS FOR NDT IN THE SATURN AND ADVANCED SPACE FLIGHT PROGRAMS 67-02 M19-60917
NONDESTRUCTIVE TESTING IN OIL INDUSTRY 67-04 M19-68025
RECOMMENDED PRACTICE FOR THE APPLICATION OF PENETRANT TESTING 67-05 M19-68423
RADIOGRAPHIC CONTROL OF WELDMENTS 67-05 M19-69124
THE MANUFACTURE AND TESTING OF COLD EXPANDED HIGH TEST LINE PIPE 67-06 M11-70026
ULTRASONIC WATER COLUMN PROBE SPEEDS UP TESTING OF WELDS 67-06 M19-70009
LIKE JUNE, RADIOGRAPHY IS BUSTING OUT ALL OVER 67-06 M19-70457
RADIOGRAPHIC CONTROL OF WELDMENTS 67-08 M19-75395
RADIOGRAPHY IN SHIPBUILDING. PT. 1 67-12 M19-83116

WELDMENTS, OXIDATION
INFLUENCE OF COMPOSITION OF CAST IRON DEPOSIT WELDS ON ITS HEAT RESISTANCE 67-01 M12-57392

WELDMENTS, PHYSICAL PROPERTIES
POROSITY IN ALUMINIUM WELDS.. ITS CAUSES AND ITS CURES 67-01 M11-58498

WELDMENTS, POROSITY
POROSITY IN WELDMENTS AND METHODS OF PREVENTION 67-09 M15-78199

WELDMENTS, SPECIFICATIONS
A RATIONAL APPROACH TO STANDARDS FOR WELDED CONSTRUCTION 67-01 M19-58591

WELDMENTS, X RAY ANALYSIS
X-RAY INSPECTION OF MATERIALS. PT. 5 67-06 M19-72135
THE MOTTLING APPEARANCE ON A RADIOGRAPH OF AUSTENITIC STAINLESS STEEL WELDMENTS 67-12 M13-83546

WELDS
SEE WELDED JOINTS

WET CLASSIFIERS
IMPROVING COPPER RECOVERY BY SAND SLIME SEPARATION 67-12 M02-82914

WETNESS
SEE MOISTURE CONTENT

WETTABILITY
CAPILLARY ADHESION FORCES BETWEEN SOLID PARTICLES WITH AN INTERMEDIATE LIQUID LAYER AT THE CONTACT. PT. 2. EFFECT OF THE DEGREE OF WETTING 67-02 M09-62209
ELECTRON BEAM EVAPORATION TO PROMOTE WETTING BY LIQUID METALS 67-02 M15-61598
WETTABILITY OF REFRACTORY CARBIDE, BORIDE AND NITRIDE BY MOLTEN METAL 67-02 M15-61709
THE EFFECT OF ZIRCONIUM ON THE SURFACE PROPERTIES OF LIQUID NICKEL AT THE MELT-GAS AND MELT-SOLID ALUMINUM OXIDE INTERFACES 67-02 M15-62113
THE KINETICS OF SESSILE-DROP SPREADING IN REACTING METAL-METAL SYSTEMS 67-03 M15-65080
STRUCTURE AND PROPERTIES OF WC SOLID SOLUTIONS IN TIC, NBC AND TAC 67-03 M15-65797
CORROSION OF AL2O3-SIO2 CRUCIBLE BY MOLTEN ALUMINUM 67-04 M18-66888
THE MECHANISM OF NODULARIZING A SINTERING MIXTURE 67-05 M02-69511
SOLDERING PROBLEMS IN THE PRODUCTION OF ELECTRONIC TUBES 67-05 M11-68606
WETTING OF SOLID-METAL SURFACES BY MOLTEN METALS 67-05 M15-69561
WETTABILITY AND PITTING FORMATION ON CATHODE NICKEL 67-06 M03-72106
ROLE OF CAPILLARY EFFECTS IN DISTRIBUTION OF LIQUID BINDERS IN CARBON-GRAPHITIC PRESSING 67-06 M09-71463
THE PROMOTION OF WETTING AND BRAZING 67-06 M11-70136
THE SPREADING ABILITIES OF SOLDER ON STAINLESS STEEL SPRING 67-06 M12-70815
SLAG FLOW RATES ON OXIDE MATERIALS 67-06 M15-70168
STUDY OF THE WETTING OF TITANIUM 3 STEEL AND 1KH18N9T STEEL BY MAGNESIUM AND MAGNESIUM CHLORIDE 67-06 M15-71129
SURFACE TENSION OF MELTS OF SIO2-NA2O-B2O3-V2O5 AND THEIR ADHESION TO STEEL 67-06 M15-71130
BRAZING OF MO AND W WITH SN-BASE BRAZING ALLOY 67-07 M11-72735
METALLOGRAPHIC INVESTIGATION OF WETTABILITY SPECIMENS 67-07 M15-74276
WETTING OF SOLID CHARGE MATERIAL BY MOLTEN SULFIDES AND ITS EFFECT ON CERTAIN PYROMETALLURGICAL PROCESSES 67-08 M03-75090
THE WETTING OF REFRACTORY CARBIDES, BORIDES, AND NITRIDES BY MOLTEN METALS 67-08 M15-75854
TESTS FOR TIN-LEAD SOLDERS AND SOLDER JOINTS 67-08 M17-74957
HOW SIZE OF MINERALS AFFECTS THEIR FLOTABILITY 67-09 M02-76895
ADHERENCE AND WETTABILITY OF NICKEL, NICKEL-TITANIUM ALLOYS, AND NICKEL-CHROMIUM ALLOYS TO SAPPHIRE 67-09 M12-77717
SOLDERABILITY--A PREREQUISITE TO TIN-LEAD PLATING 67-09 M12-78056
THE EFFECT OF A SURFACES ROUGHNESS ON ITS WETTABILITY BY METALS 67-09 M15-76954
WETTING OF URANIUM CARBIDE 67-09 M15-77473
DENSITIES AND SURFACE PROPERTIES OF IRON-COBALT-NICKEL MELTS AT 1550 C 67-11 M15-81449
WETTABILITIES OF GRAPHITE MATERIALS BY MELTS OF THE SYSTEM, NA3ALF6-ALF-MGCL2, AND THEIR ELECTRICAL CONDUCTIVITIES 67-12 M03-83458
ROLE OF CAPILLARY EFFECTS IN THE DISTRIBUTION OF LIQUID BINDERS IN CARBON-GRAPHITE COMPACTS 67-12 M09-82784
SOLDERING MOLYBDENUM AND TUNGSTEN WITH TIN BASE SOLDERS 67-12 M11-82314

WETTABILITY, ALLOYING EFFECTS
THE WETTING OF PLATINUM AND ITS ALLOYS BY GLASS. PT. 2. RHODIUM-PLATINUM ALLOYS AND THE INFLUENCE OF GOLD 67-05 M15-69719

WETTING
WETTING TRANSITION-ELEMENT NITRIDES WITH FUSED OXIDES AND METALS 67-02 M15-60091
BEHAVIOR OF SOME NITRIDES OF THE TRANSITION METALS AND OF ALUMINUM NITRIDE TOWARD LIQUID METALS 67-05 M14-69060
THE WETTING OF PLATINUM AND ITS ALLOYS BY GLASS. PT. 3. MICROSTRUCTURE AND MECHANICAL PROPERTIES OF GOLD-RHODIUM-PLATINUM ALLOYS 67-05 M14-69419
ADHESION OF NITRIDES TO STEEL AND SLAG 67-06 M15-70266
STUDY OF THE WETTING OF TITANIUM 3 STEEL AND 1KH18N9T STEEL BY MAGNESIUM AND MAGNESIUM CHLORIDE 67-06 M15-71129
INFILTRATION OF COPPER AND BRASS INTO SINTERED IRON COMPACTS 67-07 M14-73252
THE WETTING OF PLATINUM AND ITS ALLOYS BY GLASS. PT. 1 67-07 M15-72880
LIQUID AND SOLID CESIUM ON A RHENIUM SUBSTRATE 67-12 M14-82376

WETTING AGENTS
THE USE OF WETTING AGENTS IN METALLOGRAPHIC ETCHANTS 67-07 M13-73125
OXIDATION RESISTANT, HIGH TEMPERATURF CERAMIC-TO-METAL SEAL COMPATIBLE WITH CESIUM 67-10 M11-79996

WHEATSTONE BRIDGES
SENSITIVITY IMPROVEMENT IN STRAIN GAGE MEASUREMENTS 67-07 M17-72767
PRACTICAL ASPECTS OF TEMPERATURE CONTROL IN HEAT TREATMENT OPERATIONS. PT. 6 67-12 M19-82355

WHEEL DRESSING
JET WHEEL CLEANING SPEEDS GRINDING OF HIGH ALLOY MATERIALS 67-02 M08-60241
TANGENTIAL ROLLING INCREASES CRANKSHAFT LIFE 67-04 M08-66118

WHEELS
SEE ALSO ABRASIVE WHEELS
GRINDING WHEELS

WHEELS, EXTRUSION
BASIC OPENHEARTH STEEL OF IMPROVED MECHANICAL PROPERTIES FOR EXTRUSION OF DYNAMICALLY LOADED AUTOMOBILE PARTS 67-04 M17-67438

WHEELS, MECHANICAL PROPERTIES
ANALYSIS OF RESIDUAL, THERMAL, AND LOADING STRESSES IN A 833 WHEEL AND THEIR RELATIONSHIP TO FATIGUE DAMAGE 67-09 M17-76460

WHEELS, WELDING
LENGTHENING THE SERVICE LIFE OF CRANE WHEELS 67-02 M11-60198

WHISKERS /METALS/
THE GROWTH OF NEEDLE-LIKE CRYSTALS ON TUNGSTEN IN ARGON 67-02 M14-60878
EUTECTICS PROVIDE POSSIBLE ONE-STEP WHISKER COMPOSITES 67-03 M09-65615
STRENGTH AND STRUCTURE OF VERY FINE SAPPHIRE WHISKERS 67-03 M17-65342
PYROLYTIC DEPOSITS OF SILICON CARBIDE 67-04 M05-66128
CERAMIC WHISKERS REINFORCE ALUMINUM CASTINGS 67-05 M06-69886
METAL MATRIX COMPOSITE MATERIALS 67-05 M09-68497
REINFORCEMENT OF METALS AND ALLOYS BY DISPERSED PARTICLES OR FIBERS 67-09 M14-76376
METAL MATRIX COMPOSITE MATERIALS--THEIR REINFORCING COMPONENTS AND THEIR PROBLEMS 67-12 M14-82046
THE EFFECT OF ELEVATED-TEMPERATURE EXPOSURE ON THE MICROSTRUCTURE AND TENSILE STRENGTH OF AL3NI WHISKER-REINFORCED ALUMINUM 67-12 M17-82861

WHISKERS /METALS/, COATING
METAL COATED WHISKERS 67-07 M09-73361

WHISKERS /METALS/, COMPOSITE MATERIALS
PRESENT CONDITION AND FUTURE PROSPECTS OF HIGH-STRENGTH COMPOSITE MATERIALS 67-02 M17-59904

WHISKERS /METALS/, CRYSTAL GROWTH
GROWTH OF WHISKER CRYSTALS AND RELATED MORPHOLOGIES BY ELECTROTRANSPORT 67-01 M14-58694
GROWTH OF INAS WHISKERS IN WURTZITE STRUCTURE 67-02 M14-59067
MORPHOLOGICAL OBSERVATIONS AFTER DISTILLATION OF BERYLLIUM FROM THE SOLID STATE AT HIGH TEMPERATURES 67-03 M03-65243
FORMS OF GROWTH OF CU WHISKERS AND DETERMINATION OF THEIR CRYSTAL STRUCTURE BY ELECTRON DIFFRACTION 67-05 M13-68645
A P-N JUNCTION IN SILICON WHISKERS GROWN BY VLS METHODS 67-05 M14-68718
GROWTH CURVE OF COPPER WHISKERS 67-06 M14-70254
RECOVERY OF BENT COPPER WHISKERS 67-08 M14-76219
FORMATION AND GROWTH OF COPPER WHISKERS OBSERVED UNDER THE MICROSCOPE 67-10 M14-80020
NOTES ON THE GROWTH OF TIN WHISKERS 67-10 M14-80021
TIN WHISKERS AND FILAMENTARY GROWTHS ON A THIN FILM CONDUCTOR IN RESPONSE TO DIRECT-CURRENT FLOW 67-11 M14-80831

WHISKERS /METALS/, ELECTRICAL PROPERTIES
FERROMAGNETIC HALL EFFECT WITH ELECTRON-PHONON INTERACTIONS 67-01 M15-58749
DIFFUSION ANALYSIS OF THE OBSERVED TIME LAG OF THE THERMAL COEFFICIENT OF RESISTIVITY OF GERMANIUM 67-03 M16-65886
THE DEPENDENCE OF THE ELECTRICAL CONDUCTIVITY OF METALLIC WHISKERS ON THE DIAMETER 67-07 M15-72601
GALVANOMAGNETIC EFFECTS IN IRON WHISKERS 67-08 M16-74946

WHISKERS /METALS/, FIBER METALLURGY
PROGRESS IN COMPOSITE MATERIALS 67-06 M09-70652
REVIEW OF CURRENT DEVELOPMENTS IN NEW REFRACTORY FIBERS AND THEIR UTILIZATION AS HIGH TEMPERATURE REINFORCEMENTS 67-07 M09-73339
SINGLE CRYSTAL FIBER REINFORCEMENTS 67-07 M09-73344
THE EFFECT OF FIBER ORIENTATION AND MORPHOLOGY ON THE TENSILE BEHAVIOR OF AL3NI WHISKER REINFORCED ALUMINUM 67-12 M17-82129

WHISKERS /METALS/, MAGNETIC PROPERTIES
FERROMAGNETIC DOMAIN STRUCTURE OF IRON WHISKERS WITH --111-- AXES 67-01 M15-58654
INFLUENCE OF THE ANOMALOUS SKIN EFFECT ON THE FERROMAGNETIC-RESONANCE LINEWIDTH IN IRON 67-06 M15-71796
CONTRAST IN THE ELECTRON MICROSCOPE DUE TO STRAY MAGNETIC FIELDS NEAR SINGLE-DOMAIN IRON WHISKERS 67-07 M15-73554
GALVANOMAGNETIC PROPERTIES OF SINGLE-CRYSTAL IRON FILMS AND WHISKERS 67-07 M15-73562
CALCULATION OF NUCLEATION FIELD STRENGTH IN CYLINDRICAL IRON SPECIMENS 67-12 M15-82226

WHISKERS /METALS/, MECHANICAL PROPERTIES
SOME WORK WITH A MICROSTRAIN APPARATUS 67-02 M17-59913
CONTRIBUTION TO THE PLASTICITY OF COPPER WHISKERS 67-02 M17-60124
STRENGTH CHARACTERISTICS OF WHISKER CRYSTALS, MICROCRYSTALS, AND MACROCRYSTALS 67-03 M14-65341
EFFECT OF SIZE, IMPURITY AND DEFORMATION ON THE INTERNAL FRICTION AND STRENGTH PROPERTIES OF WHISKERS 67-06 M17-70338
TENSION TESTING ALUMINA WHISKERS 67-06 M17-70686
TENSILE STRENGTH OF NICKEL WHISKERS 67-06 M17-71976
SURVEY OF CERAMIC FIBERS AND FIBROUS COMPOSITE MATERIALS 67-07 M01-73874
PLASTIC DEFORMATION OF IRON WHISKERS 67-07 M17-72410
STRUCTURE AND PROPERTIES OF ALUMINUM OXIDE WHISKERS 67-07 M17-73135
EFFECT OF ALTERNATE BENDS ON COPPER WHISKERS 67-08 M14-76228
APPARATUS FOR TENSILE TESTS ON MICROFIBER SPECIMENS FROM 4 TO 330 K 67-08 M17-75650
ROOM AND ELEVATED TEMPERATURE STRENGTH OF ALPHA-AL203 WHISKERS AND THEIR STRUCTURAL CHARACTERISTICS 67-08 M17-76141
A NEW METHOD AND TECHNIQUES FOR TENSION TESTING WHISKERS 67-08 M17-76143
RECOVERY OF PLASTICALLY DEFORMED FILAMENTARY CRYSTALS OF COPPER 67-10 M14-79472
PLASTICITY OF CADMIUM AND ZINC WHISKER CRYSTALS 67-10 M17-79449
LUDERS BANDS OF KCL WHISKERS 67-11 M13-80812
NEW FIBERS FOR STRUCTURAL REINFORCEMENTS 67-11 M14-80687

WHISKERS /METALS/, MICROSTRUCTURE
INVESTIGATIONS OF THIN OXIDE FILMS. PT. 3. THE ELECTRON MICROSCOPIC INVESTIGATION OF ISOLATED ALPHA-FE203 AND NIO WHISKERS 67-05 M13-69838

WHISKERS /METALS/, REACTIONS /CHEMICAL/
FORMATION OF HOLLOW WHISKERS FROM METALS BY REACTION WITH FERICYANIDE AND FERROCYANIDE 67-05 M14-69427
SULFURIZATION OF AG POWDER AND SECTIONS BY H2S AT LOW PRESSURE 67-05 M15-69136
WHISKERS /METALS/, SUPERCONDUCTIVITY
SUPERCONDUCTING TRANSITION TEMPERATURE AND RESISTIVITY OF TIN WHISKERS AS A FUNCTION OF UNIAXIAL TENSION 67-03 M16-65748
WHISKERS /METALS/, THERMAL PROPERTIES
HIGH-TEMPERATURE SPECIFIC HEAT OF GERMANIUM 67-03 M15-65885
WHISKERS /METALS/, TRANSPORT PROPERTIES
THERMOELECTRIC POWER OF VANADIUM DIOXIDE WHISKERS 67-03 M16-65645

WHITE CAST IRON
SEE WHITE IRON
WHITE IRON, CASTING
TREATMENT OF WHITE IRON WITH BORON AND SILICON 67-02 M17-61187
HOT TEARS IN WHITE IRON CASTINGS. PT. 1 67-03 M06-65834
INFLUENCE OF CARBON, SILICON AND BORON ON HOT TEARING IN WHITE CAST IRON 67-05 M06-68951
ON THE VOLUME CHANGE IN WHITE IRON CASTINGS 67-05 M06-69890
HOT TEARS IN WHITE IRON. PT. 3 67-06 M06-70589
WILLIAM LEE AND SONS --MALLEABLE--, LTD., COMPLETES PHASE 1 EXPANSION 67-06 M06-72024
INFLUENCES OF MOLDING SAND, MOLD HARDNESS AND POURING TEMPERATURE UPON HOT TEARING IN WHITE CAST IRON 67-08 M06-74619
INFLUENCE OF COPPER AND NICKEL ON THE STABLE AND METASTABLE EUTECTIC TEMPERATURES OF CAST IRON 67-09 M14-77837
LINEAR SHRINKAGE OF MALLEABLE IRON CASTINGS 67-12 M06-82620
WHITE IRON, CASTING DEFECTS
HOT TEARS IN WHITE IRON. PT. 4 67-06 M06-71008
WHITE IRON, CHEMICAL ANALYSIS
THE DETERMINATION OF TRACE ELEMENTS IN CAST IRON USING A DIRECT READING SPECTROMETER 67-08 M19-75585
WHITE IRON, CRYSTAL LATTICES
STRUCTURE OF MARTENSITE 67-07 M14-72634
ALTERATION IN THE DISLOCATION STRUCTURE OF CEMENTITE DURING DEFORMATION AND ANNEALING 67-10 M13-78383
WHITE IRON, CRYSTALLIZATION
INVESTIGATION OF THE HEAT OF CRYSTALLIZATION OF MOLTEN PIG IRONS 67-01 M14-57131
WHITE IRON, DEFECTS
HOT TEARS IN WHITE CAST IRON. PT. 2 67-04 M06-67499
WHITE IRON, EXTRUSION
HOT EXTRUSION OF CAST IRON 67-03 M07-65308
WHITE IRON, GRAPHITIZATION
GRAPHITIZATION OF WHITE CAST IRON 67-04 M14-67620
WHITE IRON, HEAT TREATMENT
EFFECT OF BORON ON INTERFACIAL DISTRIBUTION OF ELEMENTS IN WHITE CAST IRON AND THEIR REDISTRIBUTION DURING ANNEALING 67-02 M06-61807
INFLUENCE OF BORON ON THE PHASE DISTRIBUTION OF ELEMENTS IN WHITE IRON AND THEIR REDISTRIBUTION DURING ANNEALING 67-09 M06-78079
FORM OF GRAPHITE IN SULFUR-SATURATED MALLEABLE IRON 67-12 M14-81976
WHITE IRON, LAMINATES
LAMINATED MARTENSITIC WHITE IRONS 67-12 M17-82917
WHITE IRON, MECHANICAL PROPERTIES
PRACTICAL RECOMMENDATIONS ON THE SELECTION OF WHITE CAST IRONS FOR USE IN CONDITIONS OF ABRASIVE WEAR 67-01 M17-58034
PIG IRON WITH A HIGH CONTENT OF MANGANESE FOR CASTING WEAR-RESISTANT PARTS 67-04 M17-67440
THE QUALITY ANALYSIS OF UNALLOYED WHITE IRON 67-12 M17-83483
WHITE IRON, MELTING
A WATER-COOLED CUPOLA FOR MELTING WHITE CAST IRON 67-12 M06-82615
WHITE IRON, MICROSTRUCTURE
STUDY OF THE PRODUCTION OF PEARLITIC MALLEABLE IRON 67-04 M06-66097
STUDIES ON GRAPHITIZATION OF CONVENTIONALLY AND ISOTHERMALLY ANNEALED WHITE CAST IRONS 67-05 M14-69878
DISTRIBUTION OF SILICON AND CHROMIUM BETWEEN THE PHASES OF CAST IRON OF LOW CHROMIUM CONTENT 67-06 M13-71113
KINETICS OF AND LIMITING FACTOR IN THE GRAPHITIZATION OF WHITE IRON 67-06 M14-70757
UNIDIRECTIONAL SOLIDIFICATION OF WHITE CAST IRON 67-06 M14-70849
DISTRIBUTION OF NICKEL AND CHROMIUM IN VERY HARD ROLL IRON 67-09 M04-77373
EFFECT OF ALLOYING ELEMENTS ON THE STRUCTURE OF WHITE CAST IRONS 67-12 M13-82089
DISTRIBUTION OF SULFUR IN WHITE GRAPHITIZED AND DECARBURIZED IRONS INVESTIGATED BY THE AUTORADIOGRAPHY METHOD 67-12 M13-82487
CONTRIBUTION TO THE STUDY OF MICROSEGREGATION IN FE-C CASTING ALLOYS 67-12 M14-83498
WHITE IRON, PHASE TRANSFORMATIONS
CHARACTERISTICS OF IRRADIATION AND THERMAL TREATMENTS OF WHITE CAST IRON 67-02 M14-60858
INFLUENCE OF STRUCTURAL IMPERFECTIONS ON THE GRAPHITIZATION OF WHITE CAST IRON AND STEEL 67-08 M14-76032
INTERMEDIATE TRANSFORMATION OF AUSTENITE IN WHITE CHROMIUM-NICKEL CAST IRON 67-08 M14-76035
SINGULARITIES OF RADIATION-HEAT TREATMENT OF WHITE CAST IRON 67-08 M14-76116
RESIDUAL BORON AS AN ALLOYING ELEMENT DURING THE INITIATION OF CENTERS OF GRAPHITIZATION IN WHITE CAST IRON CASTINGS 67-09 M06-76984
MECHANISM BY WHICH CENTERS OF GRAPHITIZATION ARE INITIATED WHEN WHITE CAST IRON IS INOCULATED WITH ALUMINUM AND BORON 67-09 M14-76985
ACTIVATION ENERGY AND FACTOR, DETERMINING GRAPHITIZATION OF WHITE CAST IRON 67-09 M14-77280
DILATOMETRIC RESEARCH INTO THE KINETICS OF GRAPHITIZATION WHEN WHITE IRON IS ANNEALED TO PRODUCE MALLEABLE IRON 67-10 M14-78351
WHITE IRON, PHASES /STATE OF MATTER/
STRUCTURE OF EUTECTIC IN FE-C-V ALLOYS 67-02 M13-62273
QUANTITATIVE EVALUATION OF THE DISTRIBUTION OF SILICON IN MALLEABLE CAST IRON 67-02 M13-62276
WHITE IRON, PHYSICAL PROPERTIES
THE CRYSTALLIZATION PRESSURE FACTOR IN THE PRESHRINKAGE EXPANSION OF CASTINGS 67-08 M14-74550
WHITE IRON, RADIATION EFFECTS
RADIOGRAPHIC EFFECT ACCOMPANYING RADIATION DAMAGE IN THE CARBIDE PHASE OF WHITE CAST IRON 67-08 M14-74548
WHITE IRON, THERMAL PROPERTIES
EFFECT OF THE MAGNETIC FIELD ON THE METASTABILITY OF CEMENTITE IN WHITE CAST IRON 67-01 M14-57134
WHITE IRON, TRANSFORMATIONS /MATERIALS/
DILATOMETRIC AND RESISTOMETRIC STUDIES OF WHITE CAST IRON AT SUBCRITICAL TEMPERATURES 67-04 M06-66948
WHITE METAL, MAGNETIC PROPERTIES
MAGNETORESISTANCE AND COUPLED ORBITS IN TIN 67-03 M15-65032
WHITE METAL, SUPERCONDUCTIVITY
ANISOTROPIC ENERGY GAP IN SUPERCONDUCTING WHITE TIN.. SEMIEMPIRICAL APPROACH 67-04 M16-68139
WIDMANSTATTEN STRUCTURE
THE DISLOCATION STRUCTURES OF THE BROAD FACES OF WIDMANSTATTEN GAMMA PLATES IN AN AL-15 PER CENT AG ALLOY 67-04 M14-66538
METALLOGRAPHY AND STRENGTHENING MECHANISMS OF 0.3 PER CENT C AND 0.3 PER CENT C-1.5 PER CENT CU STEELS. PT. 1. METALLOGRAPHY OF A 0.3 PER CENT C AND A 0.3 PER CENT C-1.5 PER CENT CU STEEL IN THE TEMPERED CONDITION 67-04 M14-66990
PRECIPITATION EFFECTS IN AUSTENITIC STAINLESS STEELS CONTAINING TITANIUM AND ALUMINIUM ADDITIONS 67-04 M14-66993
THE BAINITIC REACTION IN URANIUM-CHROMIUM ALLOYS 67-05 M14-69563
DEVELOPMENT OF NIOBIUM-CONTAINING COBALT-BASE AIR-CASTING ALLOYS FOR HIGH TEMPERATURES 67-05 M17-69564
STUDY OF THE FORMATION OF WIDMANSTATTEN STRUCTURE IN IRON 67-06 M14-69978
STUDY OF THE SURFACE MICRORELIEF OF STEEL WITH A

WIDMANSTATTEN STRUCTURE

WIDMANSTATTEN STRUCTURE 67-06 M14-69979
GROWTH OF WIDMANSTATTEN CRYSTALS OF CEMENTITE IN STEEL 67-09 M14-77283
ELECTRON MICROSCOPIC STUDY OF THE STRUCTURE OF ZR-4 PER CENT NB ALLOY 67-11 M13-80742
STACKING FAULTS IN A NON-STOICHIOMETRIC FACE-CENTERED CUBIC TAC 67-12 M13-82001

WIDMANSTATTEN STRUCTURE, ALLOYING EFFECTS
INFLUENCE OF ALLOYED ELEMENTS ON THE FORMATION OF THE WIDMANSTATTEN STRUCTURE 67-08 M13-74959

WINDING
OPEN COIL ANNEALING OF STEEL SHEET FOR SINGLE-COAT VITREOUS ENAMEL 67-06 M07-70501

WINDINGS
SEE COILS

WINGS /AIRCRAFT/
BRAZING BREAKTHROUGH JOINS REFRACTORY HONEYCOMB 67-06 M11-70569

WINGS /AIRCRAFT/, NONDESTRUCTIVE TESTING
THE VALUE OF NON-DESTRUCTIVE TESTING IN THE AIRCRAFT INDUSTRY 67-06 M19-71741

WIRE
SEE ALSO ELECTRIC WIRE
PIANO WIRE
SILVER-BASE TERNARY ALLOY PROVES SUPERIOR FOR SLIP RING LEAD WIRES 67-06 M15-70010
STAINLESS STEEL WIRE--WHERE IT IS TODAY 67-12 M20-82277

WIRE, CASTING
CONTINUOUS PRODUCTION OF WIRE, TAPE AND NARROW STRIP 67-05 M06-69593
THE PROPERZI PROCESS--1967 PROGRESS REPORT. PT. 1 67-10 M06-80092

WIRE, CLADDING
CLAD METAL WIRE OUTPERFORMS SOLID WIRE 67-05 M12-68425
METAL CLAD EXTENDS COPPER CONDUCTOR RANGE TO 1300 F 67-10 M12-80093
A HYDRAULIC PRESS FOR CLADDING A STEEL WIRE WITH AN ALUMINUM SHEATH 67-12 M12-82067

WIRE, CLEANING
PROTECTION FROM ACID AND ACID FUME CORROSION IN A WIRE MILL 67-02 M18-58975
AUTOMATIC PICKLING OF WIRE 67-04 M12-66678
THE DRAWING OF COPPER WIRE. PT. 3. PICKLING AND SCALPING 67-04 M12-66712
AUTOMATIC PICKLING OF BRASS AND COPPER WIRE 67-05 M12-68808
ABRASIVE CLEANING OF WIRE AND WIRE ROD 67-07 M12-74300
THE CONTINUOUS ULTRASONIC CLEANING OF WIRE AND STRIP 67-10 M12-79958
PREPARATION OF IRON AND STEEL WIRE FOR THE PRODUCTION OF SCREWS, NUTS AND FORMED COMPONENTS 67-12 M12-82443
PICKLING OF COPPER AND BRASS 67-12 M12-82655
PICKLING OF COPPER AND BATH REGENERATION BY ELECTROLYSIS 67-12 M12-83384

WIRE, COATING
NEW PROCESSES FOR GALVANISING WIRE 67-01 M12-58575
INFLUENCE OF CATHODE HYDROGEN ON STRUCTURE AND PROPERTIES OF GOLD GALVANIC COATINGS 67-04 M12-67290
SILVER-PLATED/NICKEL-PLATED COPPER WIRE SHOWS INCREASED CORROSION RESISTANCE 67-06 M18-72093
BORAX COATING IN WIRE DRAWING 67-07 M13-72883
PLATED-WIRE MEMORIES--UNIVACS BET TO REPLACE TOROIDAL FERRITE CORES 67-08 M12-74474
THE ADHERENCE OF ZINC COATS ON STEEL WIRE 67-08 M12-75074
EFFECT OF MANUFACTURING CONDITIONS ON THE APPLICABILITY OF ZINC-COATED STEEL WIRE 67-08 M12-75394
DIP FORMING OF BIMETALLIC WIRE 67-09 M12-76476
COMPARATIVE INVESTIGATION OF METHODS TO DETERMINE THICKNESS OF ZINC COATS ON STEEL WIRE 67-09 M12-77194
THE SENDZIMIR PROCESS APPLIED TO WIRE GALVANIZING 67-09 M12-77648
EFFECTS OF SURFACE FILMS ON THE DEFORMATION OF METALS 67-09 M17-77923
FABRICATION OF COMPUTER MEMORY STORES BY ELECTROPHORESIS--DEPOSITION OF FERRITES ON TO PLATINUM WIRES 67-10 M12-78721
SELECTING, FORMING AND WORKING WITH WIRE 67-10 M20-79776
THE PVC COATING OF FERROUS WIRES 67-11 M12-80541
THE TECHNIQUES AND PRACTICAL ADVANTAGES OF PLASTIC COATING WIREWORK AND WIRE 67-11 M12-81241
CERAMIC INSULATED MAGNET WIRES 67-11 M12-81242
TINNING OF COPPER WIRE 67-12 M12-82653

WIRE, COILING
THE IMPORTANCE OF HEAVY WIRE COILS IN THE PROCESSING OF WIRE 67-11 M07-80367

WIRE, CORROSION
REPORT OF BRITTLENESS IN HIGH-STRENGTH STEEL WIRES 67-02 M17-60867
ON THE PLASTISOL-COATED STEEL WIRE FOR THE ARMOR OF SUBMARINE CABLE 67-06 M18-70582
THE INTENSITY OF THE REMOTE PROTECTION EFFECT OF ZN ON STEEL IN AIR 67-11 M18-81029

WIRE, CRYSTAL DEFECTS
THE FERROMAGNETIC AFTER-EFFECT IN IRRADIATED NICKEL, AND ITS APPLICATION TO THE STUDY OF POINT DEFECTS IN FCC METALS 67-04 M13-67318

WIRE, CRYSTAL LATTICES
REMOVAL OF SINGLE INTERSTITIALS FROM IRRADIATED PLATINUM 67-02 M14-61596
A FIELD ION MICROSCOPE INVESTIGATION OF OXYGEN IN TUNGSTEN 67-08 M13-75981
FIBER TEXTURE IN DRAWN TUNGSTEN WIRES 67-12 M13-82733

WIRE, CRYSTAL STRUCTURE
FORGING AND DRAWING TEXTURES OF MOLYBDENUM WIRE OBTAINED FROM SINGLE CRYSTALS OF VARIOUS ORIENTATIONS 67-06 M13-69983

WIRE, DIFFUSION
INVESTIGATION OF THE DIFFUSION IN COPPER MICROWIRES 67-06 M14-70336

WIRE, DRAWING
METHOD OF MANUFACTURING STEEL WIRE 67-05 M07-68411

WIRE, ELECTRICAL PROPERTIES
THE MATTEUCCI EFFECT IN IRON AND NICKEL WIRES 67-03 M15-65721
ELECTRICAL RESISTIVITY OF HYDROGEN-CHARGED NIOBIUM 67-04 M15-67574
RESISTIVITY CHANGES IN AIR-QUENCHED GOLD WIRES 67-06 M14-70998
THE CHANGE IN ELECTRICAL RESISTANCE OF METALS DURING MULTIPLE QUENCHING 67-06 M15-70591
RESISTANCE AND MAGNETORESISTANCE OF THIN INDIUM WIRES 67-07 M15-73936
INTERACTION OF CONDUCTION AND INDUCED CURRENTS IN NB3ZR WIRES SUBJECTED TO AXIAL FIELDS 67-08 M15-75553
THE CHANGE IN ELECTRICAL RESISTIVITY WITH PLASTIC DEFORMATION OF COPPER AT DIFFERENT STRAIN RATES 67-09 M15-77563

WIRE, FIBER METALLURGY
MECHANICAL BEHAVIOR OF BERYLLIUM WIRE REINFORCED PLASTIC COMPOSITES 67-07 M09-73338

WIRE, FLATTENING
ROUNDED-EDGE STRIP PRODUCTION BY ROLL FLATTENING WIRE 67-01 M07-58183

WIRE, FORMING
TRANSITION BETWEEN THEORY AND PRACTICE IN ULTRASONIC METAL DEFORMATION PROCESSING 67-03 M08-65812
FORMING BAR, TUBE, SHAPES AND WIRE 67-08 M08-74844

WIRE, HEAT TREATMENT
ISOTHERMIC TREATMENT OF STEEL WIRE IN FURNACES WITH SALT BATHS 67-02 M10-60259
QUENCHING OF TIN WIRES 67-02 M14-61182
APPLICATION OF INDUCTION HEATING AND THERMOMECHANICAL TREATMENT IN PRODUCTION OF HIGH-STRENGTH WIRE 67-02 M17-61221
IMPROVING THE QUALITY OF NICHROME MICROWIRE 67-04 M07-66219
AN APPARATUS FOR THE INDUCTION ANNEALING OF COPPER WIRE 67-04 M10-66101
HIGH SPEED STRAND ANNEALING OF COPPER WIRE 67-04 M10-66711
INVESTIGATION OF AN O-SHAPED RADIANT TUBE FOR BELL FURNACES 67-05 M10-68560
EFFECT OF PATENTING OF ROD WIRE FROM ROLLING AND SPECIAL HEATS ON THE MECHANICAL PROPERTIES OF REINFORCING WIRE 67-05 M10-68561
SINGULARITIES OF PATENTING WIRE IN A PSEUDOLIQUEFIED LAYER 67-05 M10-69898
DIRECT ELECTRIC HEATING DURING PATENTING OF WIRE 67-06 M10-70367
HEAT TRANSMISSION IN REHEATING AND HEAT-TREATMENT FURNACES--SOME RECENT DEVELOPMENTS

67-06 M10-71944
RESEARCH INTO AN O-SHAPED RADIANT TUBE FOR BELL-TYPE FURNACES 67-07 M10-72471
INFLUENCE OF PATENTING OF ROLLED STOCK FROM ROLLING TEMPERATURE OR FOLLOWING SPECIAL REHEATING ON THE MECHANICAL PROPERTIES OF REINFORCING WIRE 67-07 M10-72472
FURNACE CONTROL INSTRUMENTATION IN THE WIRE INDUSTRY 67-08 M19-76075
ELECTRIC TEMPER OF SPRING STEEL 67-09 M10-77372
THE STRESS RELIEVING OF HIGH-CARBON WIRE 67-10 M10-79423
USE OF HEAVY COILS IN THE HEAT TREATMENT OF WIRE 67-11 M10-80366
THE STRESS RELIEVING OF HIGH CARBON WIRE. PT. 2 67-11 M10-81243
PATENTING WIRE IN A FLUIDISED BED 67-12 M10-82152

WIRE, LAMINATING
A LAMINATING RESIN IS USEFUL TO WIRE AND CABLE PRODUCERS 67-07 M11-73846

WIRE, MAGNETIC PROPERTIES
PRODUCTION METHOD FOR MAGNETIC WIRE 67-02 M08-60948
RESONANCE METHOD FOR MEASUREMENT OF SMALL UNIAXIAL ANISOTROPY IN FINE FERROMAGNETIC WIRES 67-07 M15-73555
EVIDENCE FOR DOMAIN-WALL COMPRESSIBILITY IN PERMALLOY WIRE 67-11 M15-80126

WIRE, MECHANICAL PROPERTIES
PORE FORMATION DURING CREEP 67-02 M14-62087
FATIGUE PROPERTIES AND STRESS ANALYSIS 67-02 M17-58977
DRAW WIRE AND ROD OF ALUMINUM AND ITS ALLOYS FOR RIVET MANUFACTURE. SHAPE AND DIMENSIONS 67-02 M17-58993
PROPERTIES OF CARBON STEELS USED IN THE WIRE INDUSTRY 67-02 M17-59106
INFLUENCE OF SMALL ADDITIONS OF CE, FE, NI AND CO ON MECHANICAL PROPERTIES AND ELECTRICAL CONDUCTIVITY OF ALUMINUM 67-02 M17-59770
EFFECT OF HIGH DEGREES OF DEFORMATION ON THE MECHANICAL PROPERTIES AND ELECTRICAL RESISTANCE OF NI AND NI-ALLOY WIRE 67-02 M17-62058
STRUCTURE AND PROPERTIES OF COBALT-ALLOYED PATENTED WIRE 67-02 M17-62270
INFLUENCE OF HEAT TREATMENT, DEGREE OF REDUCTION AND CHEMICAL COMPOSITION OF WIRE ON ITS MECHANICAL PROPERTIES 67-02 M17-62274
DYNAMIC STRENGTH OF STEEL WIRE. PT. 5. A NEW DEVICE FOR TESTING STEEL WIRE FATIGUE 67-03 M17-65185
ON RELAXATION TESTING OF WIRE BY MEASURING THE FREQUENCY OF NATURAL TRANSVERSE OSCILLATIONS OF A STRESSED SPECIMEN 67-03 M17-65607
IMPROVING THE STRESS RELAXATION TESTING OF WIRE 67-03 M17-65608
DETERMINING THE CREEP STRENGTH OF PEARLITIC STEEL THREADED SPECIMENS 67-03 M17-65609
INTERNAL FRICTION PEAKS IN DEUTERON-IRRADIATED TUNGSTEN 67-04 M17-66056
DISCUSSION OF THE EFFECTS OF METALLIC COATINGS ON THE TORSIONAL RECOVERY OF WIRES 67-04 M17-66543
ISOTHERMAL TREATMENT AND MECHANICAL PROPERTIES OF ALLOYED WIRE 67-04 M17-66626
EFFECT OF ALLOYING AND TEMPERING ON MECHANICAL PROPERTIES OF PATENTED COLD DRAWN WIRE 67-04 M17-66823
STAINLESS STEEL SPRING WIRE 67-05 M07-68673
STRESS-RUPTURE PROPERTIES OF TUNGSTEN WIRE FROM 1200 TO 2500 F 67-05 M17-68398
STAINLESS STEEL WIRE FEATURES GREAT STRENGTH AT HIGH TEMPERATURES 67-05 M17-69498
WAYS TO INCREASE THE LIFE OF SPRINGS 67-06 M17-70076
INFLUENCE OF ELECTROTHERMAL TREATMENT ON MECHANICAL PROPERTIES OF COLD DEFORMED STEEL 67-06 M17-70077
WIRE LIFE ON A PAPER MACHINE 67-06 M17-71562
MEASUREMENT AND SIGNIFICANCE OF THE SPRING BACK OF METAL WIRES 67-06 M17-71592
TEMPERATURE DEPENDENCE OF INTERNAL FRICTION OF MO WIRE 67-06 M17-72353
MECHANICAL AND ELECTRICAL PROPERTIES OF BERYLLIUM WIRE 67-07 M17-73755
FAILURE OF NON-MAGNETIC ROTOR BANDING WIRE FROM STRESS-CORROSION 67-08 M17-74507
RELAXATION TESTING OF WIRE BY MEASURING THE FREQUENCIES OF NATURAL TRANSVERSE OSCILLATIONS OF STRESSED SAMPLES 67-08 M17-74532
IMPROVING THE METHOD OF TESTING WIRE FOR STRESS RELAXATION 67-08 M17-74533
MECHANICAL PROPERTIES OF PURE ALUMINUM WIRE. STUDIES ON FABRICATION OF ULTRA FINE WIRE OF ALUMINUM AND ALUMINUM ALLOYS. PT. 1 67-08 M17-75375
INFLUENCE OF SMALL AMOUNTS OF CERIUM, IRON, NICKEL, AND COBALT ON THE MECHANICAL PROPERTIES AND ELECTRICAL CONDUCTIVITY OF ALUMINUM 67-08 M17-76128
ELEVATED TEMPERATURE PROPERTIES OF ALUMINUM BRONZE --ALLOY D-- PARENT METAL, ROD AND WELD METAL 67-09 M17-76360
THE EFFECT OF HOT DIP GALVANIZING ON THE MECHANICAL PROPERTIES OF ANNEALED WIRE, WIRE DRAWN DIRECTLY FROM RODS AND WIRE DRAWN AFTER PATENTING 67-09 M17-77500
ON THE INFLUENCE OF QUASI-ELASTIC DEFORMATIONS ON THE MODULUS DEFECT OF COLD WORKED CU 67-09 M17-77747
EFFECT OF ELECTROTHERMAL TREATMENT ON THE MECHANICAL PROPERTIES OF COLD WORKED STEEL 67-10 M17-78823
EFFECT OF DEFORMATION AND TEMPERING ON INTERNAL FRICTION OF PATENTED WIRE 67-10 M17-79904
RECENT DEVELOPMENTS AND CURRENT PRACTICE IN THE MANUFACTURE OF HIGH-CARBON STEEL WIRE IN SOUTH AFRICA 67-11 M07-81020
MECHANICAL AND RHEOLOGICAL PROPERTIES OF HIGH-STRENGTH REINFORCING ROD 67-11 M17-80978
DYNAMIC STRENGTH OF TENSION MEMBERS --EXTENDERS-- MADE OF MR47-VP MO-RE ALLOY 67-12 M17-81994
SOME OBSERVATIONS ON CRACK EXTENSION IN TWO-PHASE MATERIALS 67-12 M17-82979
MECHANICAL PROPERTIES OF COPPER CLAD ALUMINUM WIRE. PT. 2. STUDIES ON FABRICATION OF ULTRAFINE WIRE OF ALUMINUM AND ALUMINUM ALLOYS 67-12 M17-83110
FATIGUE TESTS AND ELASTIC STRESS MEASUREMENTS ON STEEL WIRE AS AFFECTED BY THE RATE OF WORKHARDENING. EXISTENCE OF A CRITICAL WORKHARDENING RANGE 67-12 M17-83338

WIRE, METAL WORKING
X-RAY CONTROL OF THE WIRE MILL 67-02 M07-59003
THE SYNTHETIC FLUID AND ITS USES IN WIRE DRAWING 67-02 M07-59005
A NEW SYSTEM FOR QUALITY CONTROL 67-02 M07-59009
WORKING OF UNALLOYED STEEL WIRE 67-02 M08-58871
TOOLING AND PRODUCTION OF WIRE FORMS ON HORIZONTAL MACHINES WITH MULTIPLE SLIDES 67-04 M08-66412
PRELIMINARY THERMOMECHANICAL PROCESSING OF CONSTRUCTION STEELS 67-04 M17-66092
MECHANICAL AND RHEOLOGICAL PROPERTIES OF HIGH-STRENGTH WIRES 67-04 M17-66376
STAINLESS STEEL WIRE SPRING 67-06 M08-72045
CALCULATING WIRE-DRAWING FORCE FROM THE PLASTIC DEFORMATION WHEN STRIP IS DRAWN 67-08 M07-76074
FORCE FOR DRAWING BIMETALLIC WIRE 67-09 M07-77365
RECENT DEVELOPMENTS AND CURRENT PRACTICE IN THE MANUFACTURE OF HIGH CARBON STEEL WIRE IN THE REPUBLIC OF SOUTH AFRICA 67-09 M07-77822

WIRE, MICROSTRUCTURE
WHAT TO LOOK FOR IN SPRING WIRE 67-03 M17-65978
DEFECTS IN DOPED TUNGSTEN SEEN WITH THE FIELD-ION MICROSCOPE 67-06 M13-71062
MICROSTRUCTURE ASSOCIATED WITH THE PEAK EFFECT --MAXIMUM IN CRITICAL CURRENT DENSITY-- IN SUPERCONDUCTING NIOBIUM 67-08 M13-75784
ELECTRON OPTICAL INVESTIGATION OF THE SECONDARY RECRYSTALLIZATION OF DRAWN TUNGSTEN WIRES BASED ON THERMAL ELECTRON EMISSION 67-09 M14-76799
ALTERATIONS IN DENSITY AND FINE STRUCTURE DURING DRAWING OF STEEL WIRE 67-10 M13-78962
A CRYSTALLOGRAPHIC INTERPRETATION OF THE PREFERRED ORIENTATION OF LARGE GRAINS IN DOPED TUNGSTEN WIRE 67-12 M13-82873

WIRE, NONDESTRUCTIVE TESTING
AUTOMATION OF WIRE TESTING 67-07 M19-74159
INFRARED EVALUATION OF MICROWELD QUALITY 67-10 M19-79747

WIRE

WIRE, PHYSICAL PROPERTIES
PROPERTIES OF TITANIUM-MOLYBDENUM ALLOY WIRE AS A SOURCE OF TITANIUM FOR SUBLIMATION PUMPS 67-08 M15-74785
WIRE, POWDER METALLURGY
MANUFACTURE OF STEEL-ALUMINUM WIRE BY THE POWDER METALLURGY METHOD 67-02 M09-62203
WIRE, QUALITY CONTROL
INSPECTION OF THE HARDNESS OF RODS IN AN EMID-3 APPARATUS 67-05 M19-68448
AN ELECTROINDUCTION METHOD OF CHECKING THE SPECIFIC ELECTRICAL RESISTANCE OF ALUMINUM INGOTS FOR WIRE 67-12 M15-82307
WIRE, REACTIONS /CHEMICAL/
FORMATION OF HOLLOW WHISKERS FROM METALS BY REACTION WITH FERICYANIDE AND FERROCYANIDE 67-05 M14-69427
THE PROCESS OF TA AND PT ACTIVATION BY THORIUM AND THORIUM OXIDES 67-05 M15-68605
WIRE, REINFORCEMENT
THE REINFORCEMENT OF NICKEL-BASE ALLOYS WITH HIGH-STRENGTH TUNGSTEN WIRES 67-06 M17-70955
WIRE, RIVETS
ALUMINUM KILLED STEEL IMPROVES RIVET FORMABILITY AND QUALITY 67-06 M17-71138
WIRE, ROLLING
THE CONTINUOUS COOLING OF HOT ROLLED WIRE ROD 67-02 M07-60757
COOLING AND LUBRICATION OF ROLLERS DURING ROLLING AND SPREADING OF WIRE 67-02 M07-62284
MODERN PRODUCTION OF CIRCLIP WIRE 67-04 M07-68175
PROCESSING AND APPLICATIONS OF STAINLESS STEEL WIRE 67-12 M07-82276
WIRE, SOLDERING
THE ATTAINMENT OF THE BEST POSSIBLE SOLDERABILITY IN THE ELECTRONIC INDUSTRY 67-11 M11-81026
WIRE, SPRINGS /ELASTIC/
SPECIAL FEATURES IN THE PRODUCTION OF STAINLESS STEEL SPRING WIRE 67-07 M17-74150
WIRE, SUPERCONDUCTIVITY
PROCESSING OF V3GA WIRES AND THEIR SUPERCONDUCTING PROPERTIES 67-02 M16-60517
SUPERCONDUCTING TRANSITION TEMPERATURE OF SOLID-SOLUTION TA-TI ALLOYS 67-03 M16-65878
DIRECT EVIDENCE OF PERSISTENT CURRENT LOOPS IN HARD SUPERCONDUCTING WIRE 67-04 M16-68072
CORRELATION BETWEEN CRITICAL CURRENTS AND CRITICAL MAGNETIC FIELDS IN A NONIDEAL TYPE 2 SUPERCONDUCTOR 67-08 M16-75665
STUDIES OF SUPERCONDUCTING NB-25 PER CENT ZR WIRES CARRYING ALTERNATING CURRENT IN AN AXIALLY APPLIED MAGNETIC FIELD 67-12 M16-82389
WIRE, SUPERCONDUCTORS
MAGNETIC PROPERTIES OF SUPERCONDUCTING MO-RE ALLOYS 67-04 M16-68140
WIRE, SURFACE FINISHING
I/USALT BATH DESCALING AND PICKLING OF NICKEL ALLOY WIRE 67-05 M12-68671
FINISHING TECHNIQUES FOR SPECIAL ROLLED STEEL 67-08 M12-75904
WIRE, TEMPERATURE EFFECTS
AN APPARATUS FOR DETERMINING THE ELASTIC CONSTANT OF METALS IN THE 20 TO - 253 C. TEMPERATURE RANGE 67-03 M17-65612
WIRE, THERMAL PROPERTIES
THERMAL TRANSPORT IN TUNGSTEN 67-09 M15-77843
WIRE, THERMOCOUPLES
A RHODIUM-PLATINUM THERMOCOUPLE FOR HIGH TEMPERATURES 67-05 M20-69732
WIRE, WELDING
LASER WELDING OF CERTAIN METALS 67-02 M11-59511
THE WELDING OF GLASS-COATED MICROWIRE TO THICK GLASS-COATED CONDUCTORS 67-02 M11-60196
APPARATUS FOR WELDING BIMETALLIC CONTACTS 67-02 M11-60941
BUTT WELDING 0.2-0.3 MM DIAM WIRE IN METAL-WEAVING PRODUCTION 67-02 M11-61268
ULTRASONICS IN ALUMINUM JOINING 67-04 M11-66248
LASER WELDING OF SOME METALS 67-04 M11-66460
ULTRASONIC WELDING WITH PULSED INDIRECT HEATING OF MICROCIRCUIT ELEMENTS 67-04 M11-66812
PRESSURE MICROWELDING IN THE MANUFACTURE OF SEMICONDUCTOR APPARATUS 67-04 M11-67156
THERMOCRUCIBLE WELDING CONNECTIONS TO EARTHING DEVICES 67-04 M11-67937
MECHANICAL PROPERTIES OF BUTT JOINTS OF ALUMINUM LEADS WELDED BY DIFFERENT TECHNIQUES 67-04 M17-67447
BUTT WELDING OF 0.2-0.3 MM WIRE IN THE PRODUCTION OF WIRE GAUZE 67-05 M11-68268
METHOD AND DEVICE FOR JOINING SECTOR ALUMINUM CABLES AND SINGLE ROUND ALUMINUM CABLES BY THERMIT WELDING 67-06 M11-70376
THERMIT CRUCIBLE WELDING OF ELECTRIC GROUNDING WIRES TO METAL STRUCTURES 67-06 M11-70749
THE SUBMERGED ARC WELDING OF BUILT-UP FACINGS WITH FLAT STRIP ELECTRODE MATERIAL 67-07 M12-72419
THE STRENGTH IS IN THE SKELETON 67-07 M20-74093
THE ULTRASONIC WELDING OF MICROCIRCUIT COMPONENTS 67-08 M11-75916
SHIELDED ARC WELDING WITH CO2, USING VERY THIN TUBULAR WIRES 67-08 M11-76151
COLD PRESSURE WELDING 67-09 M11-76512
B.I.S.R.A. DEVELOPS FINE WIRE WELDING MACHINE 67-09 M11-76904
CALCULATING TEMPERATURE DISTRIBUTION IN THE CONTACT WHEN PRESSURE MICROWELDING WITH INDIRECT HEAT 67-12 M11-81911
TERMINATING ALUMINUM CONDUCTORS 67-12 M11-82469
EFFICIENT WELDING OF LARGE-SURFACE WIRE MESH 67-12 M11-82654
WIRE BAR
SEE BILLETS
WIRE BRUSHING
TIKI GEAR DE-BURRING MACHINE 67-06 M12-71325
WIRE CLOTH
POST CURING BY ELECTRICAL INDUCTION HEATING 67-01 M10-57980
STAINLESS STEEL FOURDRINIER WIRE 67-01 M20-58765
RIGIMESH NOW HEAVILY USED IN COOLING 67-03 M20-65614
WIRE CLOTH, COMPOSITE MATERIALS
STEEL WIRE REINFORCEMENT IN LAMINATED PLASTICS 67-03 M17-65499
WIRE DRAWING
DEVELOPMENT OF INSTALLATION AND TECHNIQUE IN WIRE ROD MILL 67-01 M07-58263
MELTING AND WORKING DENTAL GOLD ALLOYS 67-02 M06-58913
X-RAY CONTROL OF THE WIRE MILL 67-02 M07-59003
THE SYNTHETIC FLUID AND ITS USES IN WIRE DRAWING 67-02 M07-59005
MEASUREMENT OF TENSION IN FINE WIRE DRAWING 67-02 M07-59008
A NEW SYSTEM FOR QUALITY CONTROL 67-02 M07-59009
BERYLLIUM INGOT WIRE 67-02 M07-59010
COPPER WIRE. PT. 5. DRAWING DIES 67-02 M07-59828
WORKING OF UNALLOYED STEEL WIRE 67-02 M08-58871
COMBATTING WEAR PROBLEMS IN WIRE DRAWING OPERATIONS 67-02 M08-58974
WIRE TEMPERATURE AND ITS MEASUREMENT IN DRAWING 67-02 M08-59561
PRODUCTION METHOD FOR MAGNETIC WIRE 67-02 M08-60948
TRANSITION BETWEEN THEORY AND PRACTICE IN ULTRASONIC METAL DEFORMATION PROCESSING 67-03 M08-65812
DIP FORMING OF BIMETALLIC WIRE 67-03 M12-65616
PRODUCTION OF WIRE OF SV-08G2S AND SU-08GS STEEL 67-04 M07-66220
THE DRAWING OF COPPER WIRE. PT. 1 67-04 M07-66635
EVALUATION OF STEEL WIRE-DRAWING LUBRICANT BY RADIO ISOTOPE 67-04 M07-68174
ELECTRON MICROSCOPIC INVESTIGATION OF THE DEFORMATION PROCESSES IN PEARLITIC STRUCTURES DURING WIRE DRAWING 67-04 M14-67203
METALWORKING 67-05 M01-69601
LOW-TEMPERATURE THERMOMECHANICAL TREATMENT OF WIRE 67-05 M07-68562
ON THE WARM WORKING OF LIGHT METALS. PT. 1 67-05 M07-68863
CONDITIONS FOR STABLE DRAWING OF STEEL WIRE AT HIGH RATES 67-05 M08-68335
ORIENTATION CHANGES OF SINGLE CRYSTALS OF FACE CENTERED CUBIC METALS ON WIRE DRAWING. PT. 3. DISCUSSION OF THE RESULTS 67-05 M14-69849
EFFECTS OF CONTINUOUS CASTING CONDITIONS ON THE

QUALITY OF PURE NICKEL AND PRODUCTS ROLLED THEREFROM. PT. 4. A STUDY OF THE CONTINUOUS CASTING OF STEEL 67-06 M03-72207
IMPROVEMENT IN ELECTRIC ALUMINUM WIRE 67-06 M07-70201
EVALUATION OF STEEL WIRE DRAWING LUBRICANTS USING RADIO ISOTOPE P32 67-06 M07-71136
ON THE PRODUCTION OF ROUND-WIRES FROM ALUMINUM STRIP 67-06 M07-71217
DRAWING OF CARBON STEEL WIRE WITH EXTREME PRESSURE LUBRICATION. PT. 2. WIRE ELONGATION CHARACTERISTICS UNDER CRITICAL PRESSURE 67-06 M07-72399
FORGING AND DRAWING TEXTURES OF MOLYBDENUM WIRE OBTAINED FROM SINGLE CRYSTALS OF VARIOUS ORIENTATIONS 67-06 M13-69983
X-RAY STUDY OF WIRE-DRAWN NIOBIUM AND TANTALUM 67-06 M17-71426
AUSFORMING WIRE DRAWING 67-07 M07-72473
TESTING THE SUITABILITY OF BOUNDARY-ACTIVE LUBRICANTS FOR COLD WORKING 67-07 M07-72545
ON THE PROBLEM OF CONTACT FRICTION IN THE DEFORMATION ZONE IN VIBRO-DRAWING 67-07 M07-73007
DRAWING FINE BERYLLIUM WIRE 67-07 M07-73766
CONDITIONS FOR STEADY DRAWING OF STEEL WIRE AT HIGH SPEEDS 67-07 M08-72863
BORAX COATING IN WIRE DRAWING 67-07 M13-72883
SPECIAL FEATURES IN THE PRODUCTION OF STAINLESS STEEL SPRING WIRE 67-07 M17-74150
STEEL WIRE CLAD WITH COPPER FOR LEADS TO RADIO PARTS 67-07 M20-74149
DEVELOPMENT OF SURFACE DEFECTS DURING THE HOT ROLLING OF 5.5 MM STEEL WIRE RODS AND THEIR EFFECT ON WIRE PROCESSING 67-08 M07-75073
DRAWING COPPER WIRE WITH A LUBRICANT UNDER EXTERNALLY GENERATED PRESSURE 67-08 M07-75140
THE FABRICATION OF SILVER AND SILVER-BASE ALLOYS 67-08 M07-75628
STREAMLINED WIRE DRAWING DIES OF MINIMUM LENGTH 67-08 M07-75780
STRAIN RATES IN WIRE DRAWING AND TUBE MAKING 67-08 M17-75288
MECHANICAL PROPERTIES OF PURE ALUMINUM WIRE. STUDIES ON FABRICATION OF ULTRA FINE WIRE OF ALUMINUM AND ALUMINUM ALLOYS. PT. 1 67-08 M17-75375
RESEARCH INTO THE DENSITY OF DEFORMED METALS AND ALLOYS 67-08 M17-75441
MEASUREMENT OF THE DIE PRESSURE DISTRIBUTION 67-09 M07-77262
FORCE FOR DRAWING BIMETALLIC WIRE 67-09 M07-77365
RECENT DEVELOPMENTS AND CURRENT PRACTICE IN THE MANUFACTURE OF HIGH CARBON STEEL WIRE IN THE REPUBLIC OF SOUTH AFRICA 67-09 M07-77822
STUDY OF WARM WORKING. PT. 3. WARM DRAWING OF COPPER ALLOYS 67-09 M07-78251
DETERMINATION OF DRAWING HOLE CONFIGURATION REQUIRING MINIMUM DRAWING FORCES IN THE DRAWING OF ROUND ROD AND WIRE 67-09 M08-77082
B.I.S.R.A. DEVELOPS FINE WIRE WELDING MACHINE 67-09 M11-76904
THE EFFECT OF HOT DIP GALVANIZING ON THE MECHANICAL PROPERTIES OF ANNEALED WIRE, WIRE DRAWN DIRECTLY FROM RODS AND WIRE DRAWN AFTER PATENTING 67-09 M17-77500
STUDY OF THE EFFECT ON DRAWING FORCE OF A LAYER UNDER THE LUBRICANT 67-10 M07-78393
FEASIBILITY OF OBTAINING MICROWIRE WITHOUT CURLS 67-10 M07-78441
ZERO DEFECTS DOWN TO THE WIRE 67-10 M07-78570
REMOVAL OF ABRADED PARTICLES IN THE WET DRAWING OF COPPER 67-10 M08-78572
ALTERATIONS IN DENSITY AND FINE STRUCTURE DURING DRAWING OF STEEL WIRE 67-10 M13-78962
NASSAUS PROCESS FOR CONTINUOUS CASTING AND ROLLING OF COPPER ROD 67-10 M20-78581
EFFECT OF INCREASED COIL WEIGHTS ON THE PROPERTIES OF WIRE ROD AND ON ITS PREPARATION FOR DRAWING 67-11 M07-80364
THE USE OF HEAVY COILS IN THE DRAWING PLANT 67-11 M07-80365
RECENT DEVELOPMENTS AND CURRENT PRACTICE IN THE MANUFACTURE OF HIGH-CARBON STEEL WIRE IN SOUTH AFRICA 67-11 M07-81020
USE OF HEAVY COILS IN THE HEAT TREATMENT OF WIRE 67-11 M10-80366
STRAIN-HARDENING AND STRAIN-RATE EFFECTS IN PLASTIC FLOW THROUGH CONICAL CONVERGING DIES 67-11 M17-81025
PROBLEMS AND NOTES ON THE MANUFACTURE OF STEEL WIRES FOR ACSR OVERHEAD TRANSMISSION LINES 67-12 M01-82652
EFFECT OF NITROGEN AND ALUMINUM ON DUCTILITY AND DRAWABILITY OF HIGH CARBON STEEL, USED FOR LARGE DIAMETER WIRES 67-12 M07-82386
DRAWN STEEL WIRE FOR THE MANUFACTURE OF SPRING RINGS 67-12 M07-82444
A COMPARISON OF MODERN WIRE ROD MILLS--DESIGN, STRUCTURAL DETAILS AND RESULTS 67-12 M07-82556
THE ORIGIN OF SOME SURFACE DEFECTS ON ROLLED AND DRAWN PRODUCTS 67-12 M07-83234
PRESSURE SHAPING OF IRON-ALUMINUM ALLOYS 67-12 M07-83329
PRODUCING MICROWIRE WITHOUT CURLS 67-12 M07-83439

WIRE DRAWING, COOLING EFFECTS
THE RELATIONSHIP BETWEEN COOLING CONDITIONS AND MECHANICAL PROPERTIES IN THE MANUFACTURE OF WIRE ROD. PT. 1 67-08 M07-75070
THE PROPERTIES OF WIRE ROD WITH CONTROLLED COOLING. PT. 2 67-08 M07-75071
THE BEHAVIOR OF WIRE ROD WITH CONTROLLED COOLING DURING DRAWING 67-08 M07-75072
THE EFFECT OF DIFFERENT CONDITIONS OF COOLING ON THE PROPERTIES OF WIRE ROD OF UNALLOYED STEEL DURING ROLLING ON A CONTINUOUS WIRE MILL TRAIN 67-09 M07-78050

WIRE DRAWING, ULTRASONICS
IMPROVED EFFICIENCY IN WIREDRAWING WITH ULTRASOUND 67-04 M08-66923
EFFICIENCY OF DRAWING IN AN ULTRASONIC FIELD 67-11 M08-80757

WIRE LINES
SEE WIRE

WIRE MESH
SEE WIRE CLOTH

WIRE PRODUCTS
SEE ALSO CABLES
WIRE CLOTH
WIRE ROD
WIRE ROPE

WIRE PRODUCTS, COATING
APPLICATION OF ORGANOSOL AND PLASTISOL COATINGS TO FABRICATED WIRE PRODUCTS 67-02 M12-59012
PLASTIC COATING OF WIREWORK 67-04 M12-66636

WIRE PRODUCTS, WELDING
SELECTING, FORMING AND WORKING WITH WIRE 67-10 M20-79776

WIRE ROD
DESIGN, CONSTRUCTION AND INITIAL PRODUCTION OF THE NO. 3 WIRE ROD MILL OF SUMITOMO METAL INDUSTRIES KOKURA STEEL WORKS 67-03 M07-65929

WIRE ROD, CASTING
PRODUCTION OF COPPER WIRE ROD BY DIPFORMING. PT. 1 67-01 M06-58531
ON THE QUALITY OF 18-8 STAINLESS STEEL WIRE ROD FROM CONTINUOUS-CAST BILLETS 67-07 M07-72440
CONTINUOUS PRODUCTION OF ALUMINIUM ROD FOR ELECTRICAL CONDUCTORS 67-11 M03-81491

WIRE ROD, CLEANING
ABRASIVE CLEANING OF WIRE AND WIRE ROD 67-07 M12-74300

WIRE ROD, DRAWING
THE RELATIONSHIP BETWEEN COOLING CONDITIONS AND MECHANICAL PROPERTIES IN THE MANUFACTURE OF WIRE ROD. PT. 1 67-08 M07-75070
THE PROPERTIES OF WIRE ROD WITH CONTROLLED COOLING. PT. 2 67-08 M07-75071

WIRE ROD, MECHANICAL PROPERTIES
EFFECT OF INCREASED COIL WEIGHTS ON THE PROPERTIES OF WIRE ROD AND ON ITS PREPARATION FOR DRAWING 67-11 M07-80364

WIRE ROD, METAL WORKING
THE BEHAVIOR OF WIRE ROD WITH CONTROLLED COOLING DURING DRAWING 67-08 M07-75072
DEVELOPMENT OF SURFACE DEFECTS DURING THE HOT ROLLING OF 5.5 MM STEEL WIRE RODS AND THEIR EFFECT ON WIRE PROCESSING 67-08 M07-75073

WIRE ROD, NONDESTRUCTIVE TESTING
THE NONDESTRUCTIVE TESTING OF MILL PRODUCTS BY A QUANTITATIVE EDDY CURRENT PROCESS 67-12 M19-83149

WIRE ROD, ROLLING
BILLET MILL AND WIRE ROD MILL AT THE APPLEBY-

WIRE ROD
FRODINGHAM STEEL COMPANY, SCUNTHROPE, ENGLAND 67-01 M07-58577
WIRE ROPE
STEEL STRANDS FOR PRESTRESSING 67-02 M20-61111
RECENT DEVELOPMENTS IN STEEL WIRE ROPES FOR HOISTING FROM GREAT DEPTHS 67-11 M20-81021
PRODUCING CABLE STEEL IN LARGE OPEN-HEARTH FURNACES 67-12 M04-83420
WIRE ROPE, CORROSION
ALUMINIZED WIRE ROPE RESISTS CORROSION AT SEA 67-08 M18-75551
WIRE ROPE, MECHANICAL PROPERTIES
ROPE WIRE FOR TODAYS APPLICATIONS 67-02 M17-59011
INVESTIGATION ON THE FATIGUE BENDING STRENGTH OF A LATERALLY LOADED STEEL ROPE WIRE 67-02 M17-59706
SURFACE CONDITION AND FATIGUE OF WIRE ROPE 67-02 M17-60586
FATIGUE FAILURE OF COMPONENTS OF LIFTING MACHINERY 67-08 M17-74502
RECENT DEVELOPMENTS IN STEEL WIRE ROPES FOR HOISTING FROM GREAT DEPTHS 67-09 M20-77823
THE PROCESSING OF STELMOR WIRE 67-10 M20-78580
WIRE ROPE, MICROSTRUCTURE
MARTENSITE INCLUSIONS IN STEEL WIRES DEVELOPED DURING DRAWING OR THROUGH WRONG USE OF ROPES 67-10 M13-78321
WIRE ROPE, PHASE TRANSFORMATIONS
MARTENSITE INCLUSIONS IN STEEL WIRES DEVELOPED DURING DRAWING OR THROUGH THE WRONG USE OF ROPES. PT. 2 67-10 M14-79425
WIRE ROPE, QUALITY CONTROL
INCREASED DEMANDS ON STEEL WIRE ROPES--WAYS OF IMPROVING WIRE QUALITY 67-10 M10-78573
WIRE ROPE, STRUCTURAL MATERIALS
PRODUCING ROPE STEEL IN A LARGE FURNACE 67-10 M04-78422
WIRES
SEE WIRE
WOLFRAM
SEE TUNGSTEN
WORK FUNCTIONS
WORK FUNCTION OF W-HF, TA-HF, NB-HF, RE-HF, RE-ZR, W-RE ALLOYS 67-02 M15-59929
THE WORK FUNCTION OF GOLD 67-02 M15-61574
SCHOTTKY EMISSION AS A RATE-LIMITING FACTOR IN THERMAL OXIDATION OF METALS 67-03 M14-65025
WORK FUNCTION CHANGES DUE TO THE CHEMISORPTION OF WATER AND OXYGEN ON ALUMINUM 67-03 M16-65807
IMPROVED SURFACE IONIZATION EFFICIENCY BY HIGH WORK FUNCTION REFRACTORY METALS AND ALLOYS 67-03 M16-65870
ANISOTROPIC WORK FUNCTIONS OF MOLYBDENUM SINGLE CRYSTALS 67-04 M13-68012
WORK FUNCTION OF TUNGSTEN SINGLE CRYSTALS 67-04 M15-66512
ELECTRONIC ENERGY BANDS IN GAAS FOR IMAGINARY CRYSTAL MOMENTUM 67-04 M16-67365
THE PROCESS OF TA AND PT ACTIVATION BY THORIUM AND THORIUM OXIDES 67-05 M15-68605
CESIUM ADSORPTION ON THE FACES OF A TUNGSTEN SINGLE CRYSTAL 67-06 M14-70512
MECHANISM OF THE SORPTION OF OXYGEN ON THE --100-- FACE OF A TUNGSTEN SINGLE CRYSTAL 67-06 M15-70870
WORK FUNCTION OF METALS 67-06 M16-70492
ADSORPTION AND ELECTRON EMISSION OF ALKALINE-EARTH METAL FILMS ON TUNGSTEN, IRIDIUM, AND RHODIUM 67-06 M16-70508
EMISSION AND ADSORPTION PROPERTIES OF THE W-LA SYSTEM 67-06 M16-70510
WORK FUNCTION OF ALLOYS W-HF, TA-HF, NB-HF, RE-HF, RE-ZR AND W-RE 67-07 M15-72584
PREPARATION AND PHYSICAL PROPERTIES OF ALLOYS OF THE W-LAB6 SYSTEM 67-07 M15-73271
VACUUM THERMIONIC WORK FUNCTIONS AND THERMAL STABILITY OF TAB2, ZRC, MO2C, MOSI2, TASI2 AND WSI2 67-08 M16-75125
INVESTIGATION OF THE ADSORPTION AND ELECTRON EMISSION OF CESIUM FILMS ON A TUNGSTEN SINGLE CRYSTAL 67-09 M13-76785
ABSORPTION OF LITHIUM ON SINGLE-CRYSTAL TUNGSTEN FACES COATED WITH AN ADSORBED OXYGEN FILM 67-09 M14-76779
THERMIONIC PROPERTIES OF TUNGSTEN IN IODIDE VAPORS 67-09 M16-76481
ELECTRON AND ION EMISSION FROM A COPPER SURFACE IN THE PRESENCE OF OXYGEN, CESIUM AND OXYGEN PLUS CESIUM 67-09 M16-76484
NOTE ON THE FIELD EMISSION MICROSCOPIC OBSERVATION OF DECOMPOSITION OF HYDRAZINE ON RHENIUM 67-09 M16-77018
SECONDARY EMISSION STUDIES ON GE AND NA-COVERED GE 67-09 M16-77442
BEHAVIOR OF ULTRATHIN ZIRCONIUM FILMS UPON EXPOSURE TO OXYGEN 67-09 M16-77446
ION BOMBARDMENT OF SOLIDS 67-09 M16-77544
EXPERIMENTAL DETERMINATION OF THE OPTICAL DENSITY OF STATES IN IRON 67-09 M16-77689
INVESTIGATION OF ADSORPTION OF CESIUM ON A TUNGSTEN SINGLE CRYSTAL 67-10 M14-79543
ADSORPTION AND ELECTRON EMISSION OF POTASSIUM FILMS ON TUNGSTEN SINGLE CRYSTAL FACES 67-10 M15-79443
THERMIONIC WORK FUNCTION OF POLYCRYSTALLINE RUTHENIUM 67-10 M15-79568
SOME WORK FUNCTIONS OF VAPOR DEPOSITED URANIUM ON POLYCRYSTALLINE TUNGSTEN FOIL 67-10 M15-79570
STUDY OF BARIUM ADSORPTION ON GERMANIUM BY FIELD-EMISSION MICROSCOPY 67-10 M16-79021
ADSORPTION OF NITROGEN ON SINGLE-CRYSTAL FACES OF TUNGSTEN 67-11 M14-80522
SURFACE IONIZATION OF SOME RARE EARTH ELEMENTS ON HOT POLYCRYSTALLINE TUNGSTEN SURFACE 67-12 M16-81769
WORK FUNCTIONS, IMPURITY EFFECTS
ON THE EXISTENCE OF A MINIMUM IN THE WORK FUNCTION OF FILM CATHODES 67-10 M16-79452
WORK HARDENABILITY
SEE STRAIN HARDENABILITY
WORK HARDENING
SEE STRAIN HARDENING
WORK SOFTENING
SEE STRAIN SOFTENING
WORK STRENGTHENING
SEE STRAIN HARDENING
WORKABILITY
WORKABILITY OF CARBON STEEL-NICKEL BIMETAL 67-01 M17-57603
WORKABILITY OF TI-STABILIZED STAINLESS CHROMIUM NICKEL STEELS 67-02 M07-58992
SOME ASPECTS OF THE PRESS FORMABILITY OF COMMERCIAL-PURITY ZINC STRIP 67-02 M17-60227
FORGING AND SOLUTION TREATING ALLOY 718 67-03 M10-65977
REVIEW OF RECENT DEVELOPMENTS NICKEL-BASE AND COBALT-BASE ALLOYS 67-04 M01-67468
STUDYING THE WORKABILITY OF STEEL IN OBLIQUE ROLLING TO PROVIDE RESULTS IN TERMS OF PIERCING 67-04 M07-67450
STUDY ON THE EVALUATION OF HOT WORKABILITY OF STEELS BY HOT TORSION TESTS 67-04 M08-67184
THE EFFECT OF TWO-PHASE STRUCTURE ON THE SUSCEPTIBILITY TO DEFORMATION OF HIGH-ALLOY CHROMIUM AND CHROMIUM-NICKEL STEELS 67-04 M17-66019
TORSION TESTING THE HOT WORKABILITY OF STEELS 67-06 M17-70980
HOT WORKING PROPERTIES OF CONTINUOUSLY CAST STEELS 67-06 M17-72022
FABRICATING PROPERTIES OF GALVANIZED SHEETS 67-07 M17-73235
COMPRESSION AND COLD ROLLING OF DISPERSION STRENGTHENED ALUMINIUM ALLOY --S.A.P.-- 67-08 M17-74410
WORKABLE IRON-SILICON CAST IRON AS AN ACID-RESISTANT MATERIAL FOR PROCESSING 67-09 M01-77017
USE OF THE REFRACTORY METALS IN CORROSIVE ENVIRONMENT SERVICE 67-11 M18-80295
WORKABILITY, ALLOYING EFFECTS
RESIDUALS--MISCHIEVOUS MITES IN STAINLESS 67-03 M17-65490
MONEL METAL-BASE POWDER COMPOSITE COMPACTING MATERIAL 67-08 M09-74913
EFFECTS OF CERIUM ON WORKABILITY OF MAGNESIUM 67-08 M17-75358
INFLUENCE OF A SMALL ADDITION OF URANIUM ON THE MECHANICAL AND MAGNETIC PROPERTIES OF A 50 PER CENT NI-FE-NI ALLOY 67-08 M17-76233
EFFECTS OF IRON AND MOLYBDENUM ON THE HIGH-TEMPERATURE PROPERTIES OF CHROMIUM BASE ALLOYS 67-09 M17-78238
WORKABILITY, ULTRASONICS
COMPRESSIVE DEFORMATION AFFECTED BY SUPERIMPOSED ULTRASONIC VIBRATION 67-08 M17-74411

WORKING /METAL/
SEE METAL WORKING
WRAPPING /PACKAGING/
SEE PACKAGING
WRAPPING /STRETCH/
SEE STRETCH WRAPPING
WRENCHES
SEE HAND TOOLS
WRIST PINS
COLD EXTRUSION OF BILLETS FOR WRIST PINS
67-06 M07-70473
WROUGHT IRON, COATING
SPRAYED ZINC FINISH--LONGER FURNITURE LIFE
67-05 M12-69875

X RAY ABSORPTION
K-SPECTRA AND ENERGY BAND STRUCTURE OF METALLIC VANADIUM 67-05 M16-68836
REFLECTION OF SOFT X-RAYS FROM THIN LAYERS OF ALUMINUM AND CHROMIUM 67-10 M16-79454
COMPARISON OF ABSORPTION COEFFICIENTS OBTAINED BY DIFFERENT METHODS IN THE ULTRASOFT X-RAY REGION OF THE SPECTRUM 67-10 M16-79456
X RAY ANALYSIS
SEE ALSO BERG BARRETT METHOD
DEBYE SCHERRER METHOD
LAUE METHOD
X RAY DIFFRACTION
X RAY FLUORESCENCE
X RAY POWDER DIFFRACTION
X RAY SPECTROSCOPY
X-RAY STUDY OF COLD-WORKED SILVER-ANTIMONY ALLOYS
67-01 M13-57413
X-RAY AND THERMOGRAPHIC INVESTIGATION OF ALLOYS IN THE SB2TE3-SB2SE3 SYSTEM 67-01 M13-58147
X-RAY DIFFRACTION ANALYSIS OF STRUCTURAL TRANSFORMATIONS DURING THE AGEING OF THE ALLOY ANCO-4. PT. 3. STATE AND CRYSTAL STRUCTURE OF THE PHASES FORMED DURING THE AGEING OF ANCO-4
67-01 M14-57340
TEXTURE OF HOT ROLLED BAND OF SILICON IRON
67-01 M14-58239
X-RAY STUDY OF KINETICS OF HEATING AND EVAPORATION OF EXPLODING WIRES 67-01 M15-58600
SOME X-RAY OBSERVATIONS OF PLASTIC FLOW IN SINGLE CRYSTALS OF IRON 67-01 M17-57428
X-RAY DETERMINATION OF THE ELASTIC CONSTANTS OF PURE NICKEL AND ITS ALLOYS WITH ALUMINUM
67-01 M17-57690
INVESTIGATION OF QUANTITATIVE ANALYTICAL METHOD WITH X-RAY FLUORESCENCE. --REPORT 5--. CORRECTION METHOD OF THE MATRIX EFFECT ON THE DETERMINATION OF COPPER AND ZINC IN BRASSES
67-01 M19-57451
QUANTITATIVE ANALYSIS BY X-RAY DIFFRACTION METHOD
67-01 M19-57914
X-RAY MICROGRAPHY STUDY OF SOME ALLOYS IN THE ZR-FE AND ZR-CO SYSTEMS 67-02 M13-59660
X-RAY MICROGRAPHY OF CARBIDE PHASES IN STEELS
67-02 M13-60098
LOW-TEMPERATURE ANNEALING OF PLASTICALLY DEFORMED METALS 67-02 M13-61930
PREPARATION AND STUDY OF RHOMBIC IRON CARBIDE
67-02 M13-62177
THE REPRESENTATION OF TEXTURES ON ROTATING FILM WITH THE AID OF SINGLE-CRYSTAL X-RAY GONIOMETERS
67-02 M14-60027
X-RAY KAPPA ABSORPTION SPECTRA OF TITANIUM, VANADIUM AND GERMANIUM IN GERMANIDES
67-02 M15-62184
IDENTIFICATION OF NONMETALLIC INCLUSIONS IN STEEL BY POLISHED THIN SECTION AND X-RAY MICROANALYSER
67-02 M19-58942
IDENTIFICATION OF NONMETALLIC INCLUSIONS IN STEELS BY THE POLISHED THIN SECTION AND X-RAY MICROANALYSER 67-02 M19-59155
THE PROBLEM OF FERRITE DETERMINATION IN AUSTENITIC WELDS 67-02 M19-59968
ELECTRON PROBE MICROANALYSIS 67-03 M13-65825
X-RAY FLUORESCENT ANALYSIS OF BERYLLIUM FOR VANADIUM THROUGH COPPER IN THE PERIODIC TABLE
67-03 M19-65020
EFFECT OF COOLING RATE DURING ALLOY HARDENING ON SEGREGATION OF SOLUBLE IMPURITIES
67-04 M13-67001
STUDY OF THE ALSB-GASB-INSB SYSTEM
67-04 M13-68050
X-RAY INVESTIGATIONS IN THE V-AS-C SYSTEM
67-04 M14-67055
STUDY OF MUTUAL DIFFUSION IN BINARY SYSTEMS FORMING A CONTINUOUS SERIES OF SOLID SOLUTIONS, BY LOCAL X-RAY SPECTRAL ANALYSIS. PT. 1
67-04 M14-67915
MODERN RADIOMETALLOGRAPHIC METHODS
67-04 M19-67399
STUDY OF STACKING FAULTS IN FACE CENTERED CUBIC NICKEL ALLOYS 67-05 M13-69455
X-RAY DIFFRACTION STUDY OF STRUCTURAL IMPERFECTIONS ARISING FROM GAMMA-EPSILON TRANSFORMATIONS
67-05 M14-68840
VISUAL X-RAY INSPECTION OF WELDED JOINTS
67-05 M19-69046
INVESTIGATION OF SUZUKI ATMOSPHERES IN COPPER-ALUMINUM ALLOYS BY SMALL-ANGLE X-RAY SCATTERING METHOD 67-06 M13-70330
STUDY OF THE INTERACTION OF DEFECTS BY MEANS OF THE ANOMALOUS TRANSMISSION OF X-RAYS
67-06 M14-70507
ANOMALOUS TRANSMISSION IN STRAINED DUCTILE AND BRITTLE CRYSTALS BY THE DIVERGENT X-RAY BEAM METHOD 67-06 M14-71283
OBSERVATIONS OF G-P ZONE REVERSION IN AL-ZN-MG ALLOYS BY SMALL-ANGLE X-RAY SCATTERING AND TRANSMISSION ELECTRON MICROSCOPY
67-06 M14-71423
SELF-ABSORPTION IN SOFT X-RAY SPECTRA OF ALLOYS
67-06 M16-71288
THE CHARACTERISTIC X-RAYS FROM BORON AND BERYLLIUM
67-06 M16-71434
THE ANALYSIS OF HIGHLY-ALLOYED STEELS BY X-RAY FLUORESCENCE USING A SOLUTION TECHNIQUE
67-06 M19-72016
X-RAY INSPECTION OF MATERIALS. PT. 5
67-06 M19-72135
X-RAY DETERMINATION OF TITANIUM USING FE55 RADIOISOTOPE 67-07 M02-72864
DETERMINATION OF THE LATTICE PARAMETERS OF COBALT AND CHROMIUM IN THE TEMPERATURE RANGE FROM 20 TO -180 C 67-07 M13-74024
DTA AND X-RAY STUDIES OF ELECTROLESS NICKEL
67-07 M14-73451
NUCLEAR-MAGNETIC-RESONANCE AND X-RAY STUDY OF SOLUTE LOSS BY INTERNAL OXIDATION IN COMMINUTED AND VACUUM-ANNEALED CU-MN ALLOYS
67-07 M15-73938
EXPERIENCE WITH AN AUTOMATIC X-RAY FLUORESCENCE INSTRUMENT INSTALLED AT AN ALLOY STEEL PLANT
67-07 M19-73022
INFLUENCE OF COOLING RATE DURING ALLOY SOLIDIFICATION ON THE SEGREGATION OF SOLUBLE IMPURITIES 67-08 M13-74760
THE TITANIUM-RICH CORNER OF THE TERNARY TI-AL-CO SYSTEM 67-08 M13-75139
PREPARATION AND STUDY OF RHOMBIC IRON CARBIDE
67-08 M13-75953
FINE CRYSTAL STRUCTURE OF THE SURFACE LAYER OF STEEL HARDENED WITH ROLLERS 67-08 M13-76004
THE PREPARATION OF CRYSTALLINE ALUMINUM BORIDES BY A VAPOR DEPOSITION PROCESS 67-08 M14-75296
THEORETICAL CALCULATION OF FLUORESCENT X-RAY INTENSITIES IN FLUORESCENT X-RAY ANALYSIS
67-08 M19-75807
DYNAMIC AND STATIC X-RAY INSPECTION
67-09 M19-76532
FLUORESCENT X-RAY ANALYSIS OF IRON ORES, REFRACTORY BRICKS AND SLAGS--ERRORS OF DETERMINATION 67-09 M19-77986
X-RAY FLUORESCENCE ANALYSIS OF DY, HO, AND ER ALLOYS WITH MN 67-09 M19-78112
X-RAY DETERMINATION OF CONCENTRATION DISTRIBUTION IN A MULTIPHASE ALLOY 67-10 M13-79908
X-RAY ANALYSIS FOR ORES AND INTERMEDIATE PRODUCTS OF NONFERROUS METALLURGY 67-10 M19-78563
INVESTIGATIONS ON CU-NI-AS-S-SYSTEM AND THE DISTRIBUTION OF SILVER ON MATTE AND SPEISS
67-10 M19-78565
AUTOMATIC COMPUTER PLOTTING OF POLE FIGURES AND AXIS DENSITY FIGURES 67-11 M13-81350
ON THE MINERAL COMPOSITION OF THE SLAG FROM ALUMINOTHERMAL MELTING OF FERROTITANIUM
67-11 M13-81631
DETERMINATION OF TITANIUM BY AN X-RAY RADIOMETRIC METHOD USING THE RADIOACTIVE ISOTOPE FE55
67-12 M02-82172
AN X-RAY STUDY OF COPPER POWDER
67-12 M13-81735
X-RAY SPECTROSCOPIC INVESTIGATION OF THE BLOCK

X RAY ANALYSIS

STRUCTURE OF CURVED ALUMINUM SINGLE CRYSTALS
67-12 M13-83362
X-RAY LINE BROADENING AND RESIDUAL STRESS STUDIES OF COMPOSITE MATERIALS 67-12 M17-81820

X RAY APPARATUS
SEE ALSO FLUOROSCOPES
A CAMERA FOR BORRMANN STEREO X-RAY TOPOGRAPHS
67-06 M14-71419
A MODIFICATION OF THE SCANNING X-RAY TOPOGRAPHIC CAMERA --LANGS METHOD-- 67-06 M14-71420

X RAY APPARATUS, DESIGN
THE USE OF X-RAY FLUORESCENCE ANALYSIS AT LOW CONCENTRATIONS. ECONOMIC CONSIDERATIONS. APPLICATION TO THE CONTROL OF CB PRODUCTION
67-12 M19-83504

X RAY BACK REFLECTION
SEE X RAY REFLECTION

X RAY DIFFRACTION
SEE ALSO BERG BARRETT METHOD
DEBYE SCHERRER METHOD
LAUE METHOD
X RAY POWDER DIFFRACTION
X RAY STRESS ANALYSIS
X-RAY DIFFRACTION MICROSCOPY STRUCTURAL STUDY OF THE AUSTENITE OF FE-NI ALLOYS IN THE DIRECT AND REVERSE MARTENSITIC TRANSFORMATIONS
67-01 M13-57351
AN X-RAY DIFFRACTION INVESTIGATION OF LIQUID INDIUM
67-01 M13-57947
THE EFFECT OF SMALL DEFORMATION ON THE STATIC DISPLACEMENT OF ATOMS IN COPPER AND MOLYBDENUM
67-01 M13-58139
SOME INNOVATIONS AND OBSERVATIONS ON HIGH PRESSURE DIFFRACTOMETRY 67-01 M13-58762
X-RAY STUDY OF SOME THIN NICKEL ELECTRODEPOSITS
67-01 M14-57493
DETERMINATION OF THE NUMBER OF 3D-ELECTRONS IN TRANSITION METALS OF THE IRON GROUP FROM THE COHERENT AND NONCOHERENT SCATTERING OF X RAYS
67-01 M16-57341
IMPROVED METHOD OF MEASURING ABSOLUTE INTENSITIES OF X-RAY REFLECTIONS 67-01 M19-57661
QUANTITATIVE ANALYSIS BY X-RAY DIFFRACTION METHOD
67-01 M19-57914
DIFFUSE X-RAY SCATTERING BY THE SOLID SOLUTION HFC-ZRC 67-02 M09-61167
X-RAY DIFFRACTION TECHNIQUE FOR RAPID SURFACE AREA DETERMINATION 67-02 M13-58901
CORRELATION OF INTRAGRANULAR AND INTERGRANULAR DOUBLE X-RAY REFLECTIONS IN POLYCRYSTALLINE METALS 67-02 M13-59922
AN X-RAY STUDY OF THE EFFECTS OF NICKEL AND MANGANESE ON THE OCCURRENCE OF STACKING FAULTS IN COPPER-BASE ALLOYS 67-02 M13-60644
NEW METHOD FOR THE DETERMINATION OF AUSTENITF IN STEELS 67-02 M13-60693
SHIFT OF THE DISLOCATION IMAGE UNDER THE EFFECT OF ANOMALOUS TRANSMISSION OF X-RAYS
67-02 M13-60778
THE ISOTHERMIC SHIFT AT ORDINARY TEMPERATURE OF THE URANIUM-CARBON-SILICON DIAGRAM
67-02 M13-61023
SMALL-ANGLE X-RAY SCATTERING STUDY OF THE EARLY STAGES OF AGEING IN THE ALLOY AL-ZN
67-02 M14-61920
MAGNETIC AND METALLURGICAL STRUCTURES IN PERMANENT MAGNETS 67-02 M15-61033
X-RAY MOTION PICTURES LOOK INTO CASTINGS
67-03 M06-65481
METHODS OF STUDYING TEXTURE IN ELECTROLYTIC DEPOSITS 67-03 M13-65105
X-RAY INVESTIGATION ON FATIGUE FRACTURE OF NOTCHED STEEL SPECIMEN. OBSERVATION OF FATIGUE PHENOMENA OF ANNEALED LOW-CARBON STEEL BY X-RAY MICROBEAM TECHNIQUE 67-03 M13-65196
OBSERVATION OF BERYLLIUM SINGLE CRYSTALS BY X-RAY TOPOGRAPHY 67-03 M13-65264
X-RAY DIFFRACTION METHODS 67-03 M13-65495
ESTIMATING THE DEGREE OF TEXTURING IN A LOW-TEXTURED ALLOY 67-03 M13-65604
X-RAY DIFFRACTION STUDY OF THE PERFECTION OF NIOBIUM SINGLE CRYSTALS 67-03 M14-65090
STUDY OF CERAMIC MATERIAL BY HIGH-TEMPERATURE X-RAY ANALYSIS 67-03 M19-65443
X-RAYS AND THEIR APPLICATIONS 67-04 M01-67244
INFLUENCE OF THE MACROSTRUCTURE ON THE RADIOGRAPHIC IMAGES OF CAST STAINLESS STEELS
67-04 M13-66044
DIFFRACTION PHOTOGRAPHY PICKS UP SPEED
67-04 M13-66108
THE EFFECT OF COLD WORK --FILING-- ON THE X-RAY DIFFRACTION PATTERNS OF SOME RARE-EARTH MEATLS
67-04 M13-66163
A HIGH-TEMPERATURE X-RAY DIFFRACTOMETER FOR OPERATION UP TO 2500 C 67-04 M13-66245
TH-THC PHASE DIAGRAM 67-04 M13-66274
THE EXISTENCE OF A CHROMIUM-MOLYBDENUM A15 STRUCTURE 67-04 M13-67110
SMALL-ANGLE X-RAY SCATTERING METHOD OF STUDYING THE STRUCTURE OF NICKEL UNDER ALTERNATING LOAD
67-04 M13-67638
GRAIN-SIZE DETERMINATION ON HARDENED STEEL FROM X-RAY INTENSITY FLUCTUATIONS 67-04 M13-67666
AN X-RAY STUDY OF THE EFFECT OF MANGANESE ON THE OCCURRENCE OF STACKING FAULTS IN SILVER-BASE ALLOYS 67-04 M14-66334
CORROSION OF AL203-SIO2 CRUCIBLE BY MOLTEN ALUMINUM
67-04 M18-66888
X-RAY-DIFFRACTOMETRIC EXAMINATION OF THE MINERAL COMPOSITION OF BAUXITE 67-05 M03-68791
X-RAY DIFFRACTION AND OPTICAL OBSERVATIONS ON CRYSTALLINE SOLIDS UP TO 300 KBAR
67-05 M13-68652
SUGGESTIONS REGARDING CERTAIN OXYGEN STRUCTURES FORMED ON THE W --110-- SURFACE
67-05 M13-69039
CRYSTAL STRUCTURE OF SM5GE4 67-05 M13-69090
X-RAY DIFFRACTION MICROSCOPY TECHNIQUE FOR THE STUDY OF AL SINGLE CRYSTALS 67-05 M14-68533
FINDING MICROFOCUS OF X-RAY UNIT EMPLOYING TELEFOCUS ELECTRON BEAM ONE-STEP REDUCING TECHNIQUE AND ITS APPLICATION
67-05 M14-68534
X-RAY INVESTIGATION ON FATIGUE FRACTURE OF NOTCHED STEEL SPECIMEN 67-05 M17-68532
EFFECT OF THE CADMIUM IMPURITY CONCENTRATION ON THE SUBSTRUCTURE OF ZINC SINGLE CRYSTALS
67-06 M13-70193
DETERMINING THE TETRAGONALITY OF MARTENSITE AND FIRST-ORDER STRESSES BY ELECTRON PROBE MICROANALYSIS 67-06 M13-70335
IMPERFECTIONS IN DEFORMED PALLADIUM
67-06 M13-71064
X-RAY INVESTIGATION OF LANTHANUM BORIDES
67-06 M13-71478
TWINNING AND SOME ASSOCIATED DIFFRACTION EFFECTS IN CUBIC AND HEXAGONAL METALS. PT. 1. SELECTION RULES FOR TWINNING IN FCC, BCC AND HCP LATTICES
67-06 M13-71610
TWINNING AND SOME ASSOCIATED DIFFRACTION EFFECTS IN CUBIC AND HEXAGONAL METALS. PT. 2. DOUBLE DIFFRACTION 67-06 M13-71611
X-RAY METHODS IN THE STUDY OF DEFECTS IN SINGLE CRYSTALS 67-06 M13-71807
EFFECT OF NICKEL UPON OXIDE INCLUSIONS IN CHROME-NICKEL STEELS 67-06 M13-72280
A CAMERA FOR BORRMANN STEREO X-RAY TOPOGRAPHS
67-06 M14-71419
A MODIFICATION OF THE SCANNING X-RAY TOPOGRAPHIC CAMERA --LANGS METHOD-- 67-06 M14-71420
SUBSTRUCTURE MEASUREMENTS BY STATISTICAL FLUCTURATIONS IN X-RAY DIFFRACTION INTENSITY
67-06 M14-71424
AN X-RAY DIFFRACTION STUDY OF THE PHASE TRANSFORMATION TEMPERATURE OF MNO
67-06 M14-71429
BEHAVIOR OF THE INCLUSIONS FORMED IN HIGH-CHROMIUM FREE-CUTTING STEEL. PT. 2. A STUDY OF INCLUSIONS IN FREE-CUTTING STEEL 67-06 M14-72021
X-RAY STUDY OF WIRE-DRAWN NIOBIUM AND TANTALUM
67-06 M17-71426
ADVANCES IN X-RAY ANALYSIS. V 9
67-06 M19-71418
BREAKTHROUGH IN ANALYSIS OF LIGHT ELEMENTS
67-06 M19-72003
EXPERIMENTS ON THE FORMATION OF SULFIDE INCLUSIONS IN STEEL. PT. 1. A STUDY OF INCLUSIONS IN FREE-CUTTING STEEL 67-07 M13-72494
RELATION OF INTRA- AND INTERGRANULAR DOUBLE X-RAY REFLECTIONS IN POLYCRYSTALLINE METALS
67-07 M13-72577
X-RAY DIFFRACTION BY HEXAGONAL CLOSE-PACKED CRYSTALS CONTAINING EXTRINSIC STACKING FAULTS
67-07 M13-72938
X-RAY OBSERVATIONS OF ANOMALOUS ETCH PATTERNS IN SILICON CRYSTALS 67-07 M13-73325
LINE SHAPE ANALYSIS OF COLD WORKED MAGNESIUM
67-07 M13-73435

THE STRUCTURE OF ELECTRODEPOSITS AND CATALYSTS EXAMINED BY X-RAY DIFFRACTION TECHNIQUES 67-07 M13-74220
X-RAY STUDY OF THE CHARACTERISTIC DEBYE TEMPERATURE OF POLYCRYSTALLINE SILVER, UTILIZING A CORRECTION FOR PRIMARY EXTINCTION 67-07 M15-72945
AN X-RAY STUDY ON DEFORMED STRUCTURE OF POLYCRYSTALLINE IRON 67-07 M17-72907
LAYER THICKNESS MEASUREMENT USING KIESSIGS METHOD WITH AN AUTOMATICALLY RECORDING GONIOMETER 67-07 M19-74025
EXPERIMENTAL METHODS OF MATERIALS RESEARCH. V. 1. ADVANCES IN MATERIALS RESEARCH 67-08 M01-74690
X-RAY EXAMINATION OF THE INITIAL AGING STAGE IN AL-25 PER CENT ZN ALLOY 67-08 M10-74633
COATING THICKNESS DETERMINATIONS OF TIN PLATE BY X-RAY METHODS 67-08 M12-75586
STUDY OF LONG PERIOD ORDERED ALLOYS BY X-RAY DIFFRACTION 67-08 M13-74415
ESTIMATING THE DEGREE OF TEXTURE IN A LOW-TEXTURE ALLOY 67-08 M13-74529
X-RAY DIFFRACTION 67-08 M13-74691
X-RAY AND ELECTRON DIFFRACTION 67-08 M13-74813
LOCAL ATOMIC ARRANGEMENTS STUDIED BY X-RAY DIFFRACTION 67-08 M13-75337
LOCAL ORDER IN SOLID ALLOYS. PT. 1 67-08 M13-75338
LOCAL ORDER IN LIQUID ALLOYS 67-08 M13-75340
EVALUATION FROM X-RAY DIFFRACTION PROFILES OF FOURIER COEFFICIENTS AND THE MICROSTRAIN DISTRIBUTION FUNCTION 67-08 M13-75343
EXAMPLES OF APPLICATIONS OF LINE BROADENING 67-08 M13-75344
ANALYSIS OF THIN FILMS 67-08 M13-75345
X-RAY DIFFRACTION DETERMINATION OF STACKING FAULT PROBABILITY IN METALS WITH FACE-CENTERED CUBIC LATTICE 67-08 M13-75347
THE USE OF X-RAY TOPOGRAPHY FOR THE OBSERVATION AND CHARACTERIZATION OF GROSS IMPERFECTIONS IN SAPPHIRE SINGLE CRYSTALS 67-08 M13-75995
LIQUID METAL SAMPLE HOLDER FOR LOW-ANGLE X-RAY DIFFRACTION 67-08 M13-76153
PERFECT EPITAXY OF SILICON FILMS ON SILICON AS SEEN IN LARGE-AREA X-RAY TOPOGRAPHS 67-08 M14-75156
VACUUM THERMIONIC WORK FUNCTIONS AND THERMAL STABILITY OF TAB2, ZRC, MO2C, MOSI2, TASI2 AND WSI2 67-08 M16-75125
X-RAY AND FATIGUE STUDIES OF HARDENED AND COLD-WORKED STEELS 67-08 M17-75346
THE APPLICATION OF A GLANCING-ANGLE X-RAY DIFFRACTION FILM TECHNIQUE TO THE STUDY OF THE LOW-TEMPERATURE OXIDATION OF FE-CR ALLOYS 67-08 M18-76252
A SURVEY OF THIN FILM THICKNESS MEASUREMENT METHODS 67-08 M19-74712
A METHOD OF DIRECT DIFFRACTIONAL QUANTITATIVE PHASE ANALYSIS OF ALUMINO-SILICON ALLOYS 67-08 M19-75348
THE X-RAY INVESTIGATION OF GOLD DEPOSITS 67-08 M19-75670
X-RAY DIFFRACTION ON POLYCRYSTALLINE COMPACT SPECIMENS--THE PROCESS OF NITRIDE PRECIPITATION IN CR-NI STEELS 67-09 M10-76704
STUDY OF DIFFUSION JOINTS OF SOME HETEROGENEOUS METALS BY X-RAY DIFFRACTION ANALYSIS 67-09 M11-77605
THE CRYSTAL STRUCTURE OF HEXAGONAL RH2AL3 67-09 M13-76383
THE ELECTROLYTIC ISOLATION AND X-RAY DIFFRACTION IDENTIFICATION OF NIOBIUM CARBIDES AND NIOBIUM NITRIDES IN LOW-NIOBIUM STEELS 67-09 M19-78194
SUMMING DEVICE FOR AN X-RAY DIFFRACTION CAMERA 67-10 M13-79647
X-RAY DIFFRACTION CONTRAST ON FERROMAGNETIC DOMAIN WALLS IN FE-SI SINGLE CRYSTALS 67-10 M15-79012
RECENT DEVELOPMENTS IN X-RAY DIFFRACTION MEASUREMENTS 67-10 M19-79185
EFFECTS OF TRACE IMPURITIES ON X-RAY DIFFRACTION 67-11 M13-80135
X-RAY CRYSTALLOGRAPHIC ANALYSIS AT HIGH TEMPERATURE WITH A GONIOMETER EQUIPPED WITH A COUNTER 67-11 M13-80151
AN X-RAY DIFFRACTION STUDY OF RUBIDIUM CHLORIDE 67-11 M13-80605
AN X-RAY STUDY ON THE STRUCTURE OF THE TERNARY AU-CU-ZN MARTENSITE 67-11 M13-80810
X-RAY DIFFRACTION ANALYSIS OF THE CE-MG-AL SYSTEM IN THE 0-33.3 AT . PER CENT CE RANGE 67-11 M13-81173
OPTICAL STUDIES OF BETA-SIC 67-11 M15-80614
TRACE CHARACTERIZATION--CHEMICAL AND PHYSICAL 67-11 M19-80130
NEW METHODS OF DETERMINING RESIDUAL AUSTENITE IN STEELS 67-11 M19-80240
STRENGTHENING OF ANNEALED CUPRONICKELS BY CHROMIUM 67-12 M10-83057
CORRELATION BETWEEN THE K-ABSORPTION EDGE AND OTHER PROPERTIES OF SOME NICKEL-RICH SOLID SOLUTIONS 67-12 M13-82442
THE FORMATION OF VACANCY CLUSTERS IN ALUMINUM 67-12 M13-82549
RADIOCRYSTALLOGRAPHIC ANALYSIS OF LOW- AND HIGH-TEMPERATURE FORMS OF RB2SO4 67-12 M13-82694
AN X-RAY DIFFRACTION STUDY OF POLYCRYSTALLINE BRASS DEFORMED IN TENSION 67-12 M13-82736
X-RAY ANALYSIS OF THE LANTHANUM BORIDES 67-12 M13-82799
A METALLOGRAPHIC TECHNIQUE FOR LANTHANUM AND CERIUM 67-12 M13-82981
THE MOTTLING APPEARANCE ON A RADIOGRAPH OF AUSTENITIC STAINLESS STEEL WELDMENTS 67-12 M13-83546
EPITAXIAL GROWTH OF VACUUM-EVAPORATED CO ON NACL. PT. 2. ANALYSIS OF DIFFRACTION PATTERNS 67-12 M14-82008
X-RAY DIFFRACTION BY MULTILAYERED THIN-FILM STRUCTURES AND THEIR DIFFUSION 67-12 M14-82377
A COMPARISON OF PHASE TRANSFORMATIONS IN THREE COMMERCIAL TITANIUM ALLOYS 67-12 M14-83055
X-RAY DIFFRACTION ANALYSIS OF METALLIC COPPER 67-12 M16-82326
STRAIN IN METAL CARBIDES 67-12 M17-81825
A SERIES FORM OF CORRECTION TO STRESSES MEASURED USING X-RAY DIFFRACTION 67-12 M17-82583
AN X-RAY STUDY OF THE INFLUENCE OF STACKING FAULT ENERGY ON THE FATIGUE BEHAVIOR OF NICKEL-COBALT ALLOYS 67-12 M17-83069
QUALITATIVE X-RAY DIFFRACTION MICROANALYSIS. PT. 2 67-12 M19-82302
A METHOD OF QUALITATIVE LOCAL X-RAY DIFFRACTION 67-12 M19-82303
AN X-RAY DIFFRACTION METHOD OF DETERMINING THE THICKNESS OF THIN NICKEL COATINGS WITHOUT USING STANDARDS 67-12 M19-82304

X RAY DIFFRACTION, STRESS EFFECTS
THE EFFECT OF COLD-WORK --FILING-- ON THE X-RAY DIFFRACTION PATTERNS OF SOME GADOLINIUM-CERIUM ALLOYS 67-06 M13-71061

X RAY DIFFRACTOMETER
SEE X RAY DIFFRACTION

X RAY EMISSION
SEE EMISSION

X RAY FLUORESCENCE
ABSOLUTE X-RAY FLUORESCENT SPECTROSCOPY 67-01 M19-57290
PRECISION COMPARISON OF FLUORESCENT X-RAY ANALYSIS BY THE LOOSE POWDER AND BRIQUET TECHNIQUES 67-02 M04-59122
X-RAY SPECTRAL ANALYSIS OF FE-NI ALLOYS 67-02 M15-59925
NONDESTRUCTIVE MATERIAL TESTING IN THE PRODUCTION OF FUEL ELEMENTS 67-02 M16-60022
DETERMINATION OF THE SURFACE CHROMIUM CONTENTS IN CHROMIZED STEEL BY X-RAY FLUORESCENCE SPECTROMETRIC ANALYSIS 67-02 M19-59120
ASPECTS AND POSSIBILITIES OF THE SPECTROMETRY OF X-RAY FLUORESCENCE IN ALUMINUM ALLOY ANALYSIS 67-02 M19-59163
X-RAY FLUORESCENCE OF BLAST FURNACE SLAGS 67-02 M19-59167
ANALYSIS OF NONMETALLIC PRODUCTS BY X-RAY FLUORESCENCE SPECTROMETRY 67-02 M19-60872
COMPLETE SPECTROCHEMICAL CONTROL IN A DIVERSIFIED FOUNDRY 67-03 M19-65009
X-RAY FLUORESCENCE ANALYSIS IN A STEEL FOUNDRY 67-03 M19-65010
X-RAY FLUORESCENT ANALYSIS OF BERYLLIUM FOR VANADIUM THROUGH COPPER IN THE PERIODIC TABLE 67-03 M19-65020
AN X-RAY FLUORESCENT METHOD FOR THE DETERMINATION OF COPPER IN SILVER-COPPER ALLOYS 67-03 M19-65493

X RAY FLUORESCENCE

X-RAY FLUORESCENCE TECHNIQUE FOR THE STUDY OF SEGREGATION IN STEEL 67-04 M13-66985
AN X-RAY FLUORESCENT METHOD FOR THE DETERMINATION OF COPPER IN SILVER-COPPER ALLOYS 67-04 M19-66105
X-RAY FLUORESCENCE ANALYSIS FOR THE ABSOLUTE DETERMINATION OF THE THICKNESS OF THIN FILMS OF ELEMENTS 67-04 M19-67059
NEW LOOK AT COATING THICKNESS 67-05 M19-68469
X-RAY FLUORESCENCE ANALYSIS OF RARE-EARTH ALLOYS 67-05 M19-69620
MECHANIZED FLAW DETECTION--CHECKS VITAL CAR COMPONENTS 67-06 M19-71203
ADVANCES IN X-RAY ANALYSIS. V 9 67-06 M19-71418
THE ANALYSIS OF HIGHLY-ALLOYED STEELS BY X-RAY FLUORESCENCE USING A SOLUTION TECHNIQUE 67-06 M19-72016
THE APPLICATION OF AN X-RAY FLUORESCENT TECHNIQUE TO THE MEASUREMENT OF TIN-COATING THICKNESS OF SMALL AREAS 67-06 M19-72019
X-RAY SPECTRANALYSIS OF FE-NI ALLOYS 67-07 M15-72580
A GENERALLY APPLICABLE X-RAY FLUORESCENCE ANALYSIS PROCEDURE 67-07 M19-72678
X-RAY AND FLUORESCENT PENETRANT INSPECTION FOR DIE-CAST CAR COMPONENT 67-07 M19-72811
EXPERIENCE WITH AN AUTOMATIC X-RAY FLUORESCENCE INSTRUMENT INSTALLED AT AN ALLOY STEEL PLANT 67-07 M19-73022
CRUCIBLES SYSTEM OF RAPID CHEMICAL ANALYSIS FOR METALLURGICAL RESEARCH 67-07 M19-73091
NUCLEAR TECHNIQUES IN NONDESTRUCTIVE TESTING 67-07 M19-73130
AN X-RAY FLUORESCENT- SOURCE ABSORPTION SPECTROMETER FOR QUANTITATIVE ELEMENTAL ANALYSIS 67-07 M19-73138
COATING THICKNESS DETERMINATIONS OF TIN PLATE BY X-RAY METHODS 67-08 M12-75586
THE FINE STRUCTURE OF THE L BETA2-EMISSION BAND OF PALLADIUM 67-08 M13-74273
ANALYSIS OF ALLOYING ELEMENTS IN VARIOUS ALLOYS AND DETERMINATION OF SMALL AMOUNTS OF ELEMENTS BY X-RAY FLUORESCENT SPECTROSCOPY 67-08 M19-74403
RADIOISOTOPE X-RAY FLUORESCENCE AND RADIATION SCATTER TECHNIQUES IN MINING AND METALLURGY 67-08 M19-74669
THE X-RAY INVESTIGATION OF GOLD DEPOSITS 67-08 M19-75670
THEORETICAL CALCULATION OF FLUORESCENT X-RAY INTENSITIES IN FLUORESCENT X-RAY ANALYSIS 67-08 M19-75807
THE ANALYSIS OF HIGHLY ALLOYED STEELS BY X-RAY FLUORESCENCE SPECTROMETRY 67-08 M19-75989
EFFECT OF SPECIMEN SURFACE PREPERATION ON THE ACCURACY OF X-RAY FLUORESCENCE ANALYSIS OF LEADED COPPER ALLOYS 67-09 M13-76676
THE ABSORPTION AND SECONDARY FLUORESCENCE OF ELECTRON EXCITED X-RAY EMISSION IN THE BINARY ALLOYS FE-MN, FE-SI AND FE-NI 67-09 M15-77553
SPRINGENT INSPECTION OF PRESSURE DIECASTING 67-09 M19-77203
X-RAY FLUORESCENCE YIELDS OF AL, CL, A, SC, TI, V, MN, FE, CO, Y AND AG 67-10 M15-79048
THE LBETA 2 LINE OF THE TANTALUM X-RAY FLUORESCENCE SPECTRUM IN THE METAL PROPER AND IN SOME OF ITS REFRACTORY COMPOUNDS 67-10 M16-79729
THE DETERMINATION OF PB, ZN, CU, AS AND S IN SULFIDE ORES BY X-RAY SPECTROMETRY 67-11 M19-80346
DETERMINATION OF THE THICKNESS OF AG, CD AND SN USING FLUORESCENT KALPHA X-RAYS INDUCED BY TM 170 67-12 M19-83256
THE USE OF X-RAY FLUORESCENCE ANALYSIS AT LOW CONCENTRATIONS. ECONOMIC CONSIDERATIONS. APPLICATION TO THE CONTROL OF CB PRODUCTION 67-12 M19-83504

X RAY FLUORESCENCE ANALYSIS
SEE X RAY ANALYSIS
X RAY FLUORESCENCE

X RAY FLUOROSCOPY
SEE FLUOROSCOPY

X RAY MICROGRAPHS
SEE MICRORADIOGRAPHY

X RAY MICROSCOPY
KOSSEL-LINE SCANNING AS A METHOD OF X-RAY TOPOGRAPHY OF STRUCTURE DEFECTS IN CRYSTALS 67-05 M13-68595
X-RAY DIFFRACTION MICROSCOPY TECHNIQUE FOR THE STUDY OF AL SINGLE CRYSTALS 67-05 M14-68533
INDUSTRIAL USES OF X-RAY MICROSCOPY 67-08 M13-75844

X RAY PHOTOGRAPHS
SEE RADIOGRAPHS
X RAY DIFFRACTION

X RAY POWDER ANALYSIS
SEE X RAY POWDER DIFFRACTION

X RAY POWDER DIFFRACTION
A GRAPHICAL METHOD FOR INDEXING X-RAY POWDER PHOTOGRAPHS OF COMPLEX SUPERLATTICE STRUCTURES IN ALLOYS 67-04 M13-66899
ABSOLUTE MEASUREMENT OF X-RAY SCATTERING FACTORS OF COPPER 67-04 M16-67478
THE DETERMINATION OF RETAINED AUSTENITE BY X-RAY DIFFRACTION 67-04 M19-66294
X-RAY MEASUREMENT OF ORDER IN CUAU2 67-05 M14-69756
CRYSTAL STRUCTURE AND SUPERCONDUCTIVITY OF A HIGH-PRESSURE PHASE OF CASI2 67-05 M16-68220
X-RAY STUDY OF COLD-WORKED MAGNESIUM 67-06 M13-71661
ENCAPSULATION OF SAMPLES FOR HIGH TEMPERATURE POWDER X-RAY DIFFRACTOMETRY 67-07 M13-73139
ANALYSIS OF THE BROADENING AND CHANGES IN POSITION OF PEAKS IN AN X-RAY POWDER PATTERN 67-08 M13-75342
CHALCOGENIDES OF THE TRANSITION ELEMENTS. PT. 5. CRYSTAL STRUCTURES OF THE DISULFIDES AND DITELLURIDES OF RUTHENIUM AND OSMIUM 67-09 M13-76446
INVESTIGATION ON NOBLE METAL-HIGH ELECTROPOSITIVE ELEMENT ALLOYS--LIPD COMPOUNDS 67-10 M13-78337
FAULTING IN COMPACTED AG-9 AT. PER CENT SN ALLOY POWDERS 67-12 M13-83050

X RAY POWDER PHOTOGRAPHY
SEE X RAY POWDER DIFFRACTION

X RAY REFLECTION
DIRECT REGISTRATION OF POLE-DIAGRAMS FOR THE DETERMINATION OF TEXTURES BY X-RAYS 67-04 M13-66283
STEREOSCOPIC OBSERVATION IN SCANNING MICROSCOPY USING MULTIPLE DETECTORS 67-04 M19-67264
KOSSEL-LINE SCANNING AS A METHOD OF X-RAY TOPOGRAPHY OF STRUCTURE DEFECTS IN CRYSTALS 67-05 M13-68595
REFLECTION X-RAY TOPOGRAPHY OF GAAS DEPOSITED ON GE 67-06 M14-70667
THE INFLUENCE OF HIGH-PHONON FLUX DENSITIES ON THE X-RAY REFLECTIVITY OF NEARLY IDEAL CDS CRYSTALS 67-08 M16-75253

X RAY SPECTRA
SEE X RAY SPECTROSCOPY

X RAY SPECTROGRAPHIC ANALYSIS
SEE X RAY SPECTROSCOPY

X RAY SPECTROMETERS
SEE X RAY SPECTROSCOPY

X RAY SPECTROSCOPY
FINE STRUCTURE ANISOTROPY OF THE X-RAY K-ABSORPTION SPECTRUM OF A GALLIUM SINGLE CRYSTAL 67-01 M13-57339
A STUDY OF PRECIPITATION IN STAINLESS AND MARAGING STEELS USING THE MOSSBAUER EFFECT 67-01 M14-58463
ABSOLUTE X-RAY FLUORESCENT SPECTROSCOPY 67-01 M19-57290
MICRO-X-RAY SPECTRAL STUDY OF THE BOUNDARY ZONE IN A BIMETAL 67-02 M13-58880
DETERMINATION OF THE SURFACE CHROMIUM CONTENTS IN CHROMIZED STEEL BY X-RAY FLUORESCENCE SPECTROMETRIC ANALYSIS 67-02 M19-59120
ANALYSIS OF NONMETALLIC PRODUCTS BY X-RAY FLUORESCENCE SPECTROMETRY 67-02 M19-60872
X-RAYS AND THEIR APPLICATIONS 67-04 M01-67244
ELECTRON PROBE MICROANALYSIS OF THE LOW ATOMIC NUMBER ELEMENTS WITH NPL X-RAY GRATINGS 67-04 M10-67262
COLORED REPRODUCTION OF X-RAY IMAGES IN THE INVESTIGATION OF HETEROGENEOUS STRUCTURES IN ELECTRON BEAM MICROANALYSIS 67-04 M13-67713
PROBLEM OF THE X-RAY DIFFRACTION ANALYSIS OF THE POLYGONIZATION OF ALUMINIUM SINGLE CRYSTALS 67-04 M14-67658
SOFT X-RAY ABSORPTION SPECTRA OF METALS AND ALLOYS. PT. 1. BE, AL, SB, BI AND AL-MG ALLOYS 67-04 M16-67473

X-RAY MICROANALYSIS IN CHEMISTRY
67-04 M19-67765
X-RAY K-ABSORPTION SPECTRUM OF METALLIC POTASSIUM
67-05 M15-69542
K-SPECTRA AND ENERGY BAND STRUCTURE OF METALLIC VANADIUM 67-05 M16-68836
EFFECT OF ALLOYING ON THE ALUMINUM K AND IRON L X-RAY EMISSION SPECTRA IN THE ALUMINUM-IRON BINARY SYSTEM 67-05 M16-69219
X-RAY EQUIPMENT AIDS SMELTER 67-05 M19-69526
X-RAY METHODS IN THE STUDY OF DEFECTS IN SINGLE CRYSTALS 67-06 M13-71807
DETERMINATION OF MINOR AND TRACE ELEMENTS IN NICKEL BY X-RAY SPECTROSCOPY 67-06 M19-70863
SPECTROCHEMICAL ANALYSIS AT THE BALTIMORE WORKS OF ARMCO STEEL CORP 67-06 M19-71389
DIRECT EMISSION X-RAY SPECTROMETRY. QUANTITATIVE ANALYSIS OF METALLURGICAL PRODUCTS
67-06 M19-72012
THE ANALYSIS OF HIGHLY-ALLOYED STEELS BY X-RAY FLUORESCENCE USING A SOLUTION TECHNIQUE
67-06 M19-72016
A SIMPLE LIGHT ELEMENT X-RAY SPECTROMETER
67-07 M19-73137
THE ANALYSIS OF HIGHLY ALLOYED STEELS BY X-RAY FLUORESCENCE SPECTROMETRY 67-08 M19-75989
DETERMINATION OF THE THICKNESS OF ALUMINUM ON SILICON BY X-RAY FLUORESCENCE
67-09 M19-76628
EXPERIMENTAL ALLOY ANALYSIS BY X-RAY SPECTROSCOPY
67-09 M19-76746
ESTIMATE OF THE NUMBER OF ELECTRONS IN THE VALENCE BAND FROM X-RAY EMISSION SPECTRA
67-11 M13-80180
X-RAY SPECTRAL ANALYSIS OF SEMICONDUCTING COMPOUNDS OF CADMIUM WITH ANTIMONY, OXYGEN, AND SULFUR
67-11 M16-80179
OPTICAL AND X-RAY SPECTROSCOPY 67-11 M19-80134
THE ANALYSIS OF MACHINED METALS BY MEANS OF X-RAY SPECTROMETRY 67-12 M19-81945

X RAY STRESS ANALYSIS
DETERMINATION OF CASTING STRESS BY X-RAYS
67-01 M17-58257
X-RAY STUDY OF THE DISTRIBUTION OF RESIDUAL STRESSES ACROSS A PIECE 67-02 M17-58829
THE ELASTIC BEHAVIOR OF GRAY CAST IRON. PT. 2. THEORY 67-02 M17-60026
HIGH HARDNESS OF ELECTROLYTIC IRON RESIDUES
67-04 M17-67840
X-RAY DIFFRACTION STUDY OF THE RESIDUAL-STRESS DISTRIBUTION IN MANUFACTURED ARTICLES
67-04 M17-68075
DEFORMATION AND MICROSCOPIC LATTICE STRAINS IN THE POLYCRYSTALLINE METALS --CRYSTAL PLANE DEPENDENCE OF THE PEAK SHIFT OF X-RAY DIFFRACTION LINE IN ELASTICALLY AND PLASTICALLY ANISOTROPIC METALS AFTER TENSILE DEFORMATION--
67-05 M14-68467
X-RAY INVESTIGATION ON THE DEFORMATION AND FATIGUE FRACTURE OF SPRING STEEL IN PLANE BENDING 67-05 M17-68465
EXAMINATION OF CORRECTION FACTORS IN X-RAY RESIDUAL STRESS MEASUREMENT OF HARDENED STEEL
67-05 M17-68523
EVALUATION OF VARIOUS TECHNIQUES OF X-RAY STRESS MEASUREMENT WITH DIFFRACTOMETER
67-05 M17-68525
NEW WORK ON THE X-RAY DETERMINATION OF STRESSES AND INTERNAL DEFORMATION 67-05 M17-68526
THE EFFECT OF ELASTIC ANISOTROPY ON THE X-RAY STRESS MEASUREMENT IN STEEL SPECIMENS
67-05 M17-68527
X-RAY INVESTIGATION ON THE STRENGTH OF INHOMOGENEOUS METALLIC MATERIALS. ON THE DEFORMATION MECHANISM OF PEARLITIC SPHEROIDAL GRAPHITE CAST IRON 67-05 M17-68528
X-RAY STRESS MEASUREMENT OF GRAY IRON CASTING WITH FLAKE GRAPHITE AND MALLEABLE IRON CASTING
67-05 M17-68529
VARIATION OF RESIDUAL STRESS IN THE FATIGUE PROCESS OF INDUCTION HARDENED STEEL 67-05 M17-68531
PRESENT STATE OF THE DETERMINATION OF STRESSES BY X-RAY INVESTIGATION 67-07 M17-73291
FACTORS AFFECTING X-RAY LATTICE EXTENSION MEASUREMENTS IN THE DETERMINATION OF APPLIED AND RESIDUAL STRESSES 67-09 M17-77880

X RAYS, SCATTERING
THE EFFECT OF SIZE DISTRIBUTION OF GUINIER-PRESTON ZONES ON THE DIFFUSION SCATTERING INTENSITY OF X-RAY BEAMS 67-02 M14-62096

XANTHATION
ON THE ACTION OF XANTHATE IN FLOTATION
67-07 M02-73828

XENON, DIFFUSION
MIGRATION OF XENON THROUGH A UO2 MATRIX CONTAINING TRAPPING SITES 67-05 M16-68351
DIFFUSION OF FISSION PRODUCTS IN CERAMIC FUELS
67-08 M14-74418
THE DIFFUSION OF XENON IN SILVER
67-09 M14-78051
DIFFUSION OF XENON IN COPPER 67-09 M14-78263

XERORADIOGRAPHY
SEE RADIOGRAPHY

YIELD
PHYSICAL BASIS OF YIELD AND FRACTURE CONFERENCE PROCEEDINGS 67-06 M17-70621
YIELD AND SECOND-ORDER EFFECTS INDUCED BY CYCLIC STRAIN IN COPPER UNDER TENSION
67-07 M17-73918

YIELD POINT
YIELD PLATEAU IN CHROMIUM 67-01 M17-58052
ON THE YIELD POINT OF MILD STEEL
67-02 M17-58803
ON THE YIELD POINTS OF MILD STEEL BEAMS UNDER UNIFORM BENDING 67-02 M17-58804
LIMIT OF THE GREATEST STRESS AT YIELD POINT
67-02 M17-58806
YIELD POINTS OF ROUND BARS OF MILD STEEL UNDER COMBINED BENDING AND TORSION 67-02 M17-58807
YIELD POINT OF MILD STEEL UNDER SHARPLY CONCENTRATED STRESS 67-02 M17-58809
STRENGTH OF SURFACE LAYERS OF BEAMS UNDER BENDING
67-02 M17-58810
ON THE STRESS-STRAIN RELATION IN PLASTIC RANGE
67-02 M17-58819
THREE SHEAR THEORY OF PLASTICITY
67-02 M17-58822
ON THE CONNECTION BETWEEN TENSILE AND YIELD LIMITS OF STEEL DURING TENSION 67-02 M17-58839
EFFECT OF HIGH DEGREES OF PLASTIC PRESTRAIN AND NATURAL AGING ON THE YIELD POINT OF MILD STEEL
67-02 M17-60790
THE APPEARANCE OF A CHARACTERISTIC YIELD POINT IN VANADIUM ALLOYS 67-03 M17-65129
ANALYSIS OF TEMPERATURE AND RATE RELATIONSHIPS OF YIELD STRENGTH AND FLOW STRESS OF ARMCO IRON IN THE LOW-TEMPERATURE RANGE 67-04 M17-67924
EFFECT OF SHORT HEATING PERIODS ON THE MECHANICAL PROPERTIES OF 20S SHEET STEEL
67-04 M17-67969
ON THE RELATIONSHIP BETWEEN THE TENSILE STRENGTH AND YIELD POINT FOR STEELS 67-04 M17-68085
EFFECT OF PRE-YIELD RELAXATION ON THE YIELDING OF IRON 67-05 M17-68434
THE EFFECT OF FREE DISLOCATIONS ON YIELDING AND FRACTURE IN BODY-CENTERED CUBIC METALS
67-06 M17-70624
THE RELATION BETWEEN YIELD AND FATIGUE FRACTURE OF MILD STEEL 67-06 M17-70628
THE YIELD-POINT PHENOMENON IN ELECTRON BEAM-REFINED NIOBIUM 67-06 M17-70629
THE YIELD POINT OF ALPHA-COPPER-TIN ALLOYS
67-06 M17-70991
ON STRESS INTENSIFICATIONS IN SPECIMENS OF CHARPY GEOMETRY PRIOR TO GENERAL YIELD
67-07 M17-72881
DEPENDENCE OF THE DISLOCATION DENSITY ON THE STRAIN RATE 67-07 M17-73322
STRAIN AGING EFFECTS AND STRESS RELAXATION IN IRON DURING SHOCK LOADING 67-07 M17-73902
KINETICS OF SNOEK ORDERING AND COTTRELL ATMOSPHERE FORMATION IN FE-N SINGLE CRYSTALS
67-07 M17-73923
THE VALIDITY OF THE ASSUMPTION OF PLANE STRAIN CONDITIONS IN PLASTIC DEFORMATION PROCESSES AND YIELD POINT PHENOMENA IN METALS AND ALLOYS
67-08 M17-75576
MECHANICAL STRENGTH OF FE-AL40 AFTER QUENCHING
67-08 M17-76216
CHANGES IN MAGNETIC PATTERNS AND OXIDATION RATE OF FERRITE CRYSTALS DURING INITIAL STAGES OF ELASTOPLASTIC DEFORMATION 67-08 M17-76229
YIELD-POINT DEPENDENCE UPON GLIDE-SYSTEM ORIENTATION 67-09 M17-77452
THE INFLUENCE OF GRAIN SIZE, TEMPERATURE AND PREFERRED ORIENTATION ON WORK HARDENING OF

POLYCRYSTALLINE SILVER 67-10 M17-78687
THE STRESS-STRAIN DIAGRAM AT THE YIELD POINT OF MILD STEEL 67-10 M17-79062
AN INVESTIGATION OF THE DYNAMIC BEHAVIOR OF AN ANNEALED LOW CARBON STEEL BY MEANS OF STRESS PULSE AMPLIFICATION 67-10 M17-79308
ELEVATED-TEMPERATURE TENSILE, CREEP, AND RUPTURE PROPERTIES OF 18 PER CENT CR-8 PER CENT NI, 18 PER CENT CR-12 PER CENT NI-MO, 18 PER CENT CR-10 PER CENT NI-TI, AND 18 PER CENT CR-12 PER CENT NI-NB STEELS 67-11 M17-80268
YIELD STRESS BEHAVIOR OF CARBON AND LOW-ALLOY STRUCTURAL STEELS IN RELATION TO GRAIN SIZE, TEMPERATURE, PRIOR DEFORMATION AND AGING 67-12 M17-81929
DEFORMATION CHARACTERISTICS OF POLYCRYSTALLINE THORIUM FROM 78 TO 473 K 67-12 M17-82560
ANALYTICAL INTERPRETATION OF BRINELL HARDNESS 67-12 M17-83245

YIELD POINT, ALLOYING EFFECTS
THE INFLUENCE OF VANADIUM AND NIOBIUM ON THE MECHANICAL PROPERTIES AND WELDABILITY OF CARBON STEEL. PT. 1. AS ROLLED 67-02 M17-58846
YIELD POINT PHENOMENA IN NONFERROUS METALS 67-11 M17-80343

YIELD POINT, HEATING EFFECTS
YIELD POINT EFFECTS IN PALLADIUM 67-10 M17-78722
STRUCTURAL CHANGES AND MECHANICAL PROPERTIES OF MOLYBDENUM AT ANNEALING 67-10 M17-79229

YIELD POINT, PRESSURE EFFECTS
YIELD POINTS AND PLASTIC DEFORMATIONS OF MILD STEEL CYLINDERS UNDER INTERNAL PRESSURE 67-02 M17-58808
YIELDING OF PRESSURIZED IRON 67-06 M17-72228

YIELD POINT, RADIATION EFFECTS
THE EXPLICIT YIELD POINT OF POLYCRYSTALLINE ZN AND THE EFFECT OF ULTRASONIC TREATMENT 67-04 M17-68008
EFFECT OF CHEMICAL COMPOSITION AND NEUTRON IRRADIATION ON MECHANICAL PROPERTIES OF FE OF DIFFERENT GRAIN SIZE 67-12 M16-82808

YIELD POINT, STRESS EFFECTS
ULTRASONIC LOSS MEASUREMENTS DURING ELASTIC-PLASTIC DEFORMATION AT THE YIELD POINT 67-06 M17-71174
STRAIN-AGING OF TANTALUM 67-06 M17-71602
OBSERVATIONS ON THE FORM OF THE LOAD-ELONGATION CURVE FOR LOW-CARBON STEEL IN THE REGION OF THE YIELD POINT 67-07 M17-72673
METHODS FOR CALCULATING MECHANICAL PROPERTIES OF INDUSTRIAL MATERIALS 67-09 M17-77085
YIELD BEHAVIOR OF DISLOCATION-FREE GERMANIUM FROM 500 C. TO THE VICINITY OF THE MELTING POINT 67-11 M17-81084

YIELD POINT, TEMPERATURE EFFECTS
TEMPERATURE DEPENDENCE OF THE YIELD POINT OF AN ORDERED NI3MN SOLID SOLUTION 67-06 M17-71371

YIELD STRAIN
SEE STRAIN

YIELD STRENGTH
BETHLEHEM INSTALLS NEW PLATE QUENCH AND TEMPER FACILITY 67-01 M10-58495
THE EFFECT OF STRESS ON STRAIN AGEING 67-01 M17-57480
MECHANICAL PROPERTIES OF RAPIDLY STRETCHED ALUMINUM AND ALUMINUM-MAGNESIUM ALLOYS 67-01 M17-57519
LOW-TEMPERATURE FLOW AND FRACTURE BEHAVIOR OF TANTALUM 67-01 M17-57630
INVESTIGATION OF THE INITIAL STAGE OF DEFORMATION OF GALLIUM ARSENIDE SINGLE CRYSTALS 67-01 M17-57650
THE ATMOSPHERIC-CORROSION-RESISTANT STEEL, SUMITOMO CR2-50 67-01 M17-58249
METALLURGICAL ADVANTAGES AND ADVANCES IN HEAT TREATED STEELS, WITH PARTICULAR REFERENCE TO THE WELDABLE CONSTRUCTIONAL STEELS. PT. 3 67-01 M17-58449
HICON 36 AND HICON 40 --HIGH YIELD STRUCTURAL STEELS-- 67-01 M17-58568
CROSS-SECTIONAL AND LONGITUDINAL YIELDING OF MILD STEEL CYLINDERS UNDER TORSION 67-02 M17-58805
DEFORMATION RESISTANCE OF EP375 AND EP495 ALLOYS 67-02 M17-58878
EFFECT OF THE ANISOTROPY OF STEEL ON THE FORM OF THE YIELD SURFACE 67-02 M17-58889
EFFECTS OF ORIENTATION AND CARBON ON THE MECHANICAL PROPERTIES OF IRON SINGLE CRYSTALS 67-02 M17-58949
STRAIN-AGING IN TANTALUM 67-02 M17-58954
THE TENSILE DEFORMATION BEHAVIOR OF AN ALUMINIUM-MAGNESIUM ALLOY 67-02 M17-58965
THE INFLUENCE OF AGING ON THE HARDENING OF PURE ALUMINUM QUENCHED TO LOW TEMPERATURE 67-02 M17-59014
BRITTLE FRACTURE OF STEELS WITH AN INCREASED YIELD STRENGTH 67-02 M17-59588
PHYSICAL REASONS FOR THE DIFFERENT GROUPING OF STEELS ACCORDING TO THEIR TRANSITION TEMPERATURE UNDER DIFFERENT TEST CONDITIONS 67-02 M17-59713
INVESTIGATION OF AMPLITUDE DEPENDENCY AND THERMAL RECOVERY OF WORK HARDENING CAUSED BY ULTRASONIC TREATMENTS 67-02 M17-59912
ELASTIC-PLASTIC PROPERTIES OF A SERIES OF METALS DURING EXPLOSIVE LOADING 67-02 M17-59937
AN IRON BASE ALLOY 67-02 M17-59954
EFFECT OF PLASTIC PRESTRAIN ON THE YIELD POINT OF ST. 45 STEEL 67-02 M17-60789
INFLUENCE OF SUBSTRUCTURE ON YIELD STRENGTH OF D16 ALLOY 67-02 M17-61557
THE EFFECT OF HYDROGEN CHARGING ON THE PETCH RELATIONSHIP FOR ZONE-REFINED IRON 67-03 M17-65093
SOME OBSERVATIONS ON NIOBIUM IN STEEL 67-03 M17-65465
NEW DATA ON STEEL FOR HYDROCRACKING 67-03 M17-65810
FIRM SEEKS GREATER KNOWLEDGE OF CARBIDES 67-04 M14-66337
SYNAMIC STRAIN AGEING IN MILD STEEL 67-04 M17-66060
STRESS MEASUREMENTS DURING THE OXIDATION OF TANTALUM AND NIOBIUM 67-04 M17-66067
THE EQUILIBRIUM COTTRELL ATMOSPHERE AND THE DISCONTINUOUS YIELD IN TANTALUM-OXYGEN 67-04 M17-66069
SUPPLEMENTAL REPORT ON THE ELEVATED-TEMPERATURE PROPERTIES OF CHROMIUM-MOLYBDENUM STEELS 67-04 M17-66289
MECHANICAL AND RHEOLOGICAL PROPERTIES OF HIGH-STRENGTH WIRES 67-04 M17-66376
DISCONTINUOUS YIELDING OF COMMERCIALLY-PURE ALUMINIUM 67-04 M17-66506
THE EFFECTS OF STRESS RAISERS ON THE EFFICIENCY OF WELDED STRUCTURES 67-04 M17-66515
INFLUENCE OF TEMPER ON THE FATIGUE STRENGTH OF CARTRIDGE BRASS --ALLOY 260-- SHEET 67-04 M17-66680
NEW HIGH-STRENGTH STEELS AND THEIR USE IN THE MINING ENGINEERING INDUSTRY 67-04 M17-66857
GRAIN BOUNDARY EFFECTS IN OXIDE DISPERSION-STRENGTHENED ZINC 67-04 M17-66922
NUMERICAL DESCRIPTIONS OF THE AMBIENT LOW-TEMPERATURE, AND HIGH-STRAIN RATE FLOW AND FRACTURE BEHAVIOR OF PLAIN CARBON STEEL 67-04 M17-66941
STUDY ON THE STRENGTH AND PLASTICITY OF SINTERED IRON DURING TENSION AT LOW TEMPERATURES 67-04 M17-67345
NATURAL AND ARTIFICIAL AGING OF CSN 10602 STEEL 67-04 M17-67435
VARIATIONS OF THE STRUCTURE AND PROPERTIES OF SOME CARBON STEELS UNDER CYCLIC LOADS BELOW THE FATIGUE LIMIT 67-04 M17-67439
ORIENTATION DEPENDENCE OF YIELD STRENGTH IN IRON ALLOY SINGLE CRYSTALS 67-04 M17-67549
EFFECT OF HYDROGEN ON THE TEMPERATURE DEPENDENCE OF THE FLOW STRESS OF NICKEL AND STAINLESS AUSTENITIC STEEL 67-04 M17-67649
THE RELATIONSHIP BETWEEN MECHANICAL PROPERTIES AND THE MICROSTRUCTURE OF CR STEELS WITH 0.6-1 PER CENT C 67-04 M17-67711
MECHANICAL PROPERTIES OF AUSTENITIC STAINLESS STEELS AT -253 C 67-04 M17-67984
TEXTURE STRENGTHENING 67-05 M17-68669
INVESTIGATION OF THE PHYSICAL AND MECHANICAL PROPERTIES OF A-4 TYPE REINFORCING STEEL 67-05 M17-69271
DUCTILITY OF STAINLESS AND HEATPROOF STEELS 67-05 M17-69695
THE CRITICAL SHEAR STRESS OF CUBIC CRYSTALS WITH TETRAGONAL DEFECT SYMMETRY. PT. 4. THE LOWER YIELD STRESS OF ALPHA-IRON 67-05 M17-69780
DISLOCATION MECHANISMS IN SINGLE CRYSTALS OF TANTALUM AND MOLYBDENUM AT LOW TEMPERATURES

67-06 M13-70411
AGE SOFTENING 67-06 M17-70446
YIELDING PHENOMENA IN BERYLLIUM WIRE PLASTIC COMPOSITES 67-06 M17-70618
YIELD AND FLOW OF LOW-CARBON STEEL AT MEDIUM STRAIN RATES 67-06 M17-70626
THE STRAIN-RATE SENSITIVITY OF THE YIELD STRESS OF STEELS 67-06 M17-70627
THE RELATION BETWEEN YIELD AND FATIGUE FRACTURE OF MILD STEEL 67-06 M17-70628
THE YIELD-POINT PHENOMENON IN ELECTRON BEAM-REFINED NIOBIUM 67-06 M17-70629
MECHANICAL PROPERTIES OF SOME TANTALUM ALLOYS 67-06 M17-71528
ORIENTATION DEPENDENCE OF YIELD IN BODY-CENTERED CUBIC METALS 67-06 M17-71531
CHANGE IN STRUCTURE AND PROPERTIES OF VT5 TITANIUM ALLOY AS A RESULT OF GAS ABSORPTION 67-06 M17-72122
TREATMENT INCREASES STRESS-CORROSION RESISTANCE OF ALUMINUM ALLOYS 67-06 M18-70014
FILAMENT METHODS CALLED BEST FOR MISSILES 67-06 M20-71709
MECHANICAL BEHAVIOR OF BERYLLIUM WIRE REINFORCED PLASTIC COMPOSITES 67-07 M09-73338
ELASTOPLASTIC PROPERTIES OF A NUMBER OF METALS EXPOSED TO EXPLOSIVE SHOCK LOADING 67-07 M17-72592
THERMALLY ACTIVATED DEFORMATION OF ALPHA TITANIUM BELOW 0.4 TM 67-07 M17-73062
LATENT HARDENING AND THE FLOW STRESS IN COPPER SINGLE CRYSTALS 67-07 M17-73067
COMPARISON OF THE HALL-PETCH PARAMETERS OF ZONE-REFINED IRON DETERMINED BY THE GRAIN SIZE AND EXTRAPOLATION METHODS 67-07 M17-73915
RELATIONSHIP OF THE MECHANICAL PROPERTIES OF THE HEAT AFFECTED ZONE IN STRUCTURAL STEELS TO THE THERMAL WELDING CYCLE 67-07 M17-73966
ROLE OF GRAIN BOUNDARIES IN THE DISCONTINUOUS YIELDING OF LOW-CARBON STEELS 67-08 M13-75580
COPPER AS AN ALLOY IN STEEL AND CAST IRON 67-08 M17-74453
ELEVATED TEMPERATURE YIELD AND 0.2 PER CENT PROOF STRESS PROPERTIES OF CARBON STEEL PLATES, WITH PARTICULAR REFERENCE TO THE VALUES SPECIFIED IN B.S. 1501..1964 67-08 M17-74500
STUDY OF THE MECHANISM OF PLASTIC DEFORMATION IN UNIRRADIATED AND IRRADIATED LOW CARBON STEEL 67-08 M17-74566
THE FLOW BEHAVIOR OF THICK-WALLED HOLLOW BODIES UNDER INTERNAL PRESSURE 67-08 M17-75107
YIELD STRENGTH AND LOW-TEMPERATURE CREEP IN AUSTENITIC STAINLESS STEELS 67-09 M17-76380
DEFORMATION OF POLYCRYSTALLINE TRANSITION METAL CARBIDES 67-09 M17-76399
FRACTURE OF WELDS IN PARTS MADE OF STEEL WITH A HIGH YIELD STRENGTH 67-09 M17-76899
PLASTIC YIELD IN SOME COPPER-BERYLLIUM ALLOYS 67-09 M17-76901
ORIENTATION DEPENDENCE OF YIELD STRESS IN 4.4 PER CENT SILICON IRON SINGLE CRYSTALS 67-09 M17-77929
DEVELOPMENT OF HIGH-STRENGTH STRUCTURAL STEEL HAVING GOOD TOUGHNESS PROPERTIES 67-09 M17-78288
PROPERTIES OF NICKEL-MOLYBDENUM-ALUMINUM AGE HARDENING STEELS 67-10 M17-79735
NEW PLATE TECHNOLOGY EQUALS NEW MARKETS 67-10 M20-80094
QUENCHED AND TEMPERED CARBON-MANGANESE STEELS FOR USE AT ELEVATED TEMPERATURES 67-11 M17-80271
STRAIN AGING OF LIGHT STEEL SECTIONS 67-11 M17-80339
THE EFFECTS OF BIAXIAL STRAIN ON MATERIAL PROPERTIES 67-11 M17-80521
FRACTOGRAPHY AND MICROSTRUCTURE OF ALUMINUM ALLOY 7075-T651 AND T7351 67-11 M17-80690
MECHANICAL AND RHEOLOGICAL PROPERTIES OF HIGH-STRENGTH REINFORCING ROD 67-11 M17-80978
VARIATION OF YIELD STRESS WITH STRAIN AND STRAIN RATE IN MILD STEEL 67-11 M17-81022
STEELS FOR ADVANCED TECHNOLOGY 67-12 M01-82802
A DYNAMIC THEORY OF COHERENT PRECIPITATION HARDENING WITH APPLICATION TO NICKEL-BASE-SUPER-ALLOYS 67-12 M10-82720
STEELS FOR BOILER PLATE AND PRESSURE EQUIPMENT PERFORMING AT HIGH TEMPERATURES. PT. 8 67-12 M17-82143
ON THE STRUCTURE AND MECHANICAL PROPERTIES OF COPPER ROLLED AT 4.2 TO 300 K 67-12 M17-82341
THE KNOOP-HARDNESS YIELD LOCI FOR TWO TITANIUM ALLOYS 67-12 M17-82770
THE EFFECTS OF TEMPERATURE AND COMPOSITION ON CRACK PROPAGATION IN IRON-SILICON SINGLE CRYSTALS 67-12 M17-82856
THE EFFECT OF SPECIMEN PREPARATION ON THE MECHANICAL PROPERTIES OF MALLEABLE CAST IRON 67-12 M17-82939
BERYLLIUM 67-12 M17-83115
HIGH STRENGTH STEELS IN DEEP SUBMERSIBLES 67-12 M20-82987

YIELD STRENGTH, ALLOYING EFFECTS
INFLUENCE OF COPPER ON AL-SI-CU SYSTEM DIE CASTING ALLOYS 67-02 M17-59728
INFLUENCE OF ZN ON THE PROPERTIES OF CREEP-RESISTING MG-ND-ZR ALLOYS 67-02 M17-61197
THE EFFECT OF TRACE ELEMENTS ON THE DEFORMATION BEHAVIOR OF A HIGH-TEMPERATURE NICR STEEL 67-04 M17-67410
MECHANICAL PROPERTIES OF HIGH-NITROGEN AUSTENITIC STAINLESS STEELS AND POSSIBLE APPLICATIONS 67-09 M17-76508
THE TENSILE STRENGTH OF NIOBIUM-MOLYBDENUM ALLOYS 67-11 M17-80318
THE MICROYIELD STRENGTH OF BERYLLIUM-IRON ALLOYS 67-12 M17-82588
THE INFLUENCE OF A FINE DISPERSION ON THE CLEAVAGE STRENGTH OF IRON 67-12 M17-82963

YIELD STRENGTH, ANISOTROPY
THE EFFECT OF PREFERRED ORIENTATION ON THE MECHANICAL PROPERTIES AND DEFORMATION BEHAVIOR OF ZIRCALOY-2 FUEL SHEATHING 67-12 M17-82571
PLASTIC DEFORMATION OF SINGLE-CRYSTAL NIAL 67-12 M17-82755

YIELD STRENGTH, COOLING EFFECTS
YIELD STRENGTH OF IRON QUENCHED FROM ALPHA REGION 67-02 M17-62092

YIELD STRENGTH, HEATING EFFECTS
PRECIPITATION HARDENING IN IRON-MOLYBDENUM ALLOY 67-04 M17-67550
THE MECHANISM OF HARDENING IN QUENCHED ALUMINUM 67-06 M14-70417
HIGH STRENGTH MAGNESIUM ALLOY 67-07 M10-74166
THE PROPERTIES OF STAINLESS STEEL 1H18N9T AFTER AGING IN THE POWER REACTOR TEMPERATURE RANGES. PT. 1. MECHANICAL PROPERTIES 67-07 M17-73884

YIELD STRENGTH, IMPURITY EFFECTS
THE EFFECT OF INTERSTITIAL IMPURITIES ON RADIATION HARDENING AND EMBRITTLEMENT IN IRON 67-02 M17-58950
INFLUENCE OF DOPING ON THE PLASTIC DEFORMATION OF GALLIUM ARSENIDE SINGLE CRYSTALS 67-06 M17-70514
GRAIN SIZE DEPENDENCE OF THE YIELD STRESS AND THE FLOW STRESS IN PURE IRON 67-06 M17-70788

YIELD STRENGTH, PRESSURE EFFECTS
YIELDING AND FRACTURE IN SOME BODY-CENTERED CUBIC METALS 67-08 M17-74517
THE EFFECT OF HYDROSTATIC PRESSURE ON YIELDING IN IRON 67-09 M17-76760

YIELD STRENGTH, RADIATION EFFECTS
HARDENING IN MILD STEEL AT HIGHER IRRADIATION TEMPERATURES 67-04 M17-67414
IRRADIATION HARDENING AND EMBRITTLEMENT IN BODY-CENTERED CUBIC TRANSITION METALS 67-07 M17-73376
THE EFFECT OF IRRADIATION TEMPERATURE ON STRENGTH AND MICROSTRUCTURE OF STAINLESS STEEL 67-09 M17-77471

YIELD STRENGTH, STRESS EFFECTS
SHARP YIELDING DUE TO WORK SOFTENING OF DYNAMICALLY PRESTRAINED SINGLE CRYSTALS OF MAGNESIUM 67-02 M17-60159
LOW-CYCLE FATIGUE OF LARGE-DIAMETER BOLTS 67-05 M17-69701
RELATION BETWEEN THE PETCH FRICTION STRESS AND THE THERMAL ACTIVATION RATE EQUATION 67-06 M17-72236

YIELD STRENGTH, TEMPERATURE EFFECTS
PLASTIC DEFORMATION OF TITANIUM AT LOW TEMPERATURES 67-02 M17-61980
TENSILE TESTS AND STRESS-STRAIN MEASUREMENTS IN VACUUM AT HIGH TEMPERATURES 67-06 M17-71513
THE EFFECT OF TEMPERATURE ON THE YIELD STRESS OF COMMERCIAL PURITY ALPHA-TITANIUM 67-06 M17-72226

YIELD STRENGTH
CONTRIBUTION TO THE DIMENSIONING OF LOAD-BEARING STEEL STRUCTURES OF THE GENERAL STRUCTURAL STEEL GRADES ST. 38 AND ST. 52 AT ELEVATED TEMPERATURES 67-06 M17-77178
TECHNOLOGICAL DUCTILITY OF STAINLESS AND HEAT-RESISTANT STEELS 67-07 M17-74081
HIGH-TEMPERATURE BEARING MATERIALS 67-07 M20-74055
MECHANICAL PROPERTIES OF HOT EXTRUDED OR HOT PRESSED DISPERSION STRENGTHENED IRONS CONTAINING AL2O3, MGO AND SIO2 PARTICLES 67-08 M17-74422
THE STRAIN AGING OF TERNARY ORDERED NI3FE-BASE ALLOYS AND THE RELATIONSHIP OF THEIR MECHANICAL PROPERTIES TO TEMPERATURE 67-08 M17-74892
INDUSTRIAL PRODUCTION OF ROLLED SECTIONS OF 40 STEEL WITH THERMOMECHANICAL TREATMENT 67-09 M10-76551
TEMPERATURE AND ORIENTATION DEPENDENCE OF THE FLOW STRESS IN OFF-STOICHIOMETRIC NI3AL --GAMMA PHASE-- 67-12 M17-82719
YIELD STRESS
SEE YIELD STRENGTH
YOUNGS MODULUS
SEE MODULUS OF ELASTICITY
YTTERBIUM, BINARY SYSTEMS
THE PHASE EQUILIBRIA AND CRYSTAL CHEMISTRY OF THE INTERMEDIATE PHASES IN THE YTTERBIUM-ANTIMONY SYSTEM 67-05 M14-68766
YTTERBIUM-LEAD SYSTEM 67-12 M13-82851
YTTERBIUM, EXTRACTION
PROCESS RECOVERS YTTRIUM FROM RESIDUE ORE 67-04 M02-66647
YTTERBIUM, INTERMETALLICS 67-04 M16-66182
RELAXATION PHENOMENA IN MOSSBAUER SPECTRA OF 170YB
RELAXATION PHENOMENA IN MOSSBAUER SPECTRA OF 170YB IN INTERMETALLIC COMPOUNDS OF YTTERBIUM
IN INTERMETALLIC COMPOUNDS OF YTTERBIUM 67-04 M16-66182
YTTERBIUM, PHYSICAL PROPERTIES
THE VAPOR PRESSURE OF YTTERBIUM IN THE PRESSURE RANGE OF 40-4000 TORR 67-12 M15-81831
YTTERBIUM, THERMODYNAMICS
DISSOCIATION PRESSURES IN THE SYSTEM YTTERBIUM-YTTERBIUM DIHYDRIDE--A COMPARISON WITH CALCIUM-CALCIUM DIHYDRIDE 67-08 M14-75297
YTTERBIUM COMPOUNDS, BINARY SYSTEMS
PHASE EQUILIBRIA IN THE SYSTEM CAO-YB2O3 67-04 M14-67324
YTTERBIUM COMPOUNDS, CRYSTALLIZATION
DEFECT CHARACTERIZATION IN THE PRECIPITATION FROM CAO..YB2O3 CRYSTALLINE SOLUTIONS 67-06 M14-71166
YTTERBIUM COMPOUNDS, PHASES /STATE OF MATTER/
NEW EUROPIUM AND YTTERBIUM COMPOUNDS OF CACU5 STRUCTURE IN THE MX5 SYSTEMS 67-12 M13-83254
YTTERBIUM COMPOUNDS, REDUCTION /CHEMICAL/
LANTHANO- AND CERIO-THERMAL REDUCTION OF YTTERBIUM OXIDE 67-06 M03-69998
YTTRIUM, ALLOYING ADDITIVE
USE OF YTTRIUM IN GETTERING OXYGEN AND NITROGEN IN NIOBIUM-BASE ALLOYS 67-02 M13-61777
EFFECT OF LANTHANUM AND YTTRIUM ON THE RECRYSTALLIZATION OF MOLYBDENUM 67-05 M14-68209
INFLUENCE OF YTTRIUM ON THE RECRYSTALLIZATION BEHAVIOR OF HIGH-PURITY AL 67-05 M14-68891
EFFECT OF YTTRIUM ON THE OXIDATION OF MOLYBDENUM AT HIGH TEMPERATURES 67-05 M18-69250
STRUCTURAL TRANSFORMATIONS TAKING PLACE DURING THE OXIDATION OF CHROMIUM ALLOYS CONTAINING YTTRIUM 67-10 M18-78960
THE SPECIFIC HEAT AND SUPERCONDUCTIVITY OF LA-Y ALLOYS 67-11 M16-81470
YTTRIUM, BINARY SYSTEMS
THE ROOM-TEMPERATURE LATTICE SPACINGS OF SOME INTRA RARE-EARTH BINARY SYSTEMS 67-03 M13-65132
A BASIS FOR SOME OF THE VARIETY OF MAGNETIC PROPERTIES OF THE HEAVY RARE-EARTH METALS AND ALLOYS 67-07 M15-73581
THE YTTRIUM-LEAD ALLOY SYSTEM 67-08 M13-75966
YTTRIUM, CRYSTAL GROWTH
GROWING AND REFINING YTTRIUM SINGLE CRYSTALS 67-02 M03-61942
YTTRIUM, DIFFUSION
DIFFUSION OF YTTRIUM IN ZIRCONIUM 67-06 M14-70104
DIFFUSION OF YTTRIUM IN ZIRCONIUM 67-10 M14-79626
YTTRIUM, INTERMETALLICS
MAGNETIC PROPERTIES OF THE INTERMETALLIC COMPOUNDS OF COBALT WITH THE RARE EARTH METALS AND YTTRIUM 67-01 M15-58648
MAGNETOCRYSTALLINE ANISOTROPY OF YCO5 AND Y2CO17 67-01 M15-58656
MAGNETIC PROPERTIES OF THE INTERMETALLIC COMPOUNDS OF COBALT WITH THE RARE EARTH METALS AND YTTRIUM 67-04 M15-66191
MAGNETOCRYSTALLINE ANISOTROPY OF TWO YTTRIUM-COBALT COMPOUNDS 67-07 M15-73583
STRENGTH OF THE S-F EXCHANGE INTERACTION IN RARE-EARTH INTERMETALLICS 67-08 M16-75006
INVESTIGATIONS ON THE SOLID SOLUTION SERIES-- Y6MN23-Y6FE23 AND YMN2-YFE2 67-09 M13-77025
YTTRIUM, MAGNETIC PROPERTIES
MAGNETIC PROPERTIES OF SOME RARE-EARTH ALLOYS AT HIGH PRESSURES 67-05 M15-69521
THE ANISOTROPY OF MAGNETIC SUSCEPTIBILITY OF METALLIC SCANDIUM AND YTTRIUM 67-11 M15-80739
YTTRIUM, MECHANICAL PROPERTIES
APPLICATION OF ANISOTROPIC ELASTICITY THEORY TO THE CHOICE OF PRIMARY SLIP SYSTEMS IN HCP METAL CRYSTALS 67-06 M17-71277
TENSILE BEHAVIOR OF POLYCRYSTALLINE YTTRIUM FROM 77 TO 773 K 67-12 M17-83058
YTTRIUM, MICROSTRUCTURE
HYDRIDE HABIT PLANES AND DEFORMATION PLANES OF HCP METALS 67-11 M13-81274
YTTRIUM, OXIDATION
OXIDATION OF YTTRIUM AT LOW PRESSURE 67-09 M18-77299
YTTRIUM, PHYSICAL PROPERTIES
THERMOELECTRICAL PROPERTIES OF YTTRIUM 67-02 M15-61616
YTTRIUM, RADIOISOTOPES
DISTRIBUTION OF Y90 IN CAST IRONS WITH VARIOUS FORMS OF GRAPHITE INCLUSIONS 67-02 M19-61808
YTTRIUM, REACTIONS /CHEMICAL/
REACTION RATE OF SOLID YTTRIUM METAL WITH MOLTEN LITHIUM FLUORIDE 67-10 M14-79688
YTTRIUM, REFINING
ELECTROREFINING YTTRIUM 67-10 M03-79988
YTTRIUM, TERNARY SYSTEMS
TERNARY COMPOUNDS WITH A SUPERLATTICE OF THMN12 TYPE IN THE YTTRIUM-TRANSITION METAL-ALUMINUM SYSTEMS 67-07 M13-73480
LATTICE SPACINGS AND EFFECTIVE ATOMIC DIAMETERS IN THE TERNARY SYSTEMS FORMED BY TH AND CE WITH Y, LA, GD AND ER, AND BY TH, PR AND Y 67-11 M13-80308
YTTRIUM, THERMODYNAMICS
LATTICE SPECIFIC HEATS OF THALLIUM AND YTTRIUM 67-07 M15-72949
YTTRIUM COMPOUNDS
SOME PROPERTIES OF YTTRIUM BORIDE 67-05 M15-69231
YTTRIUM COMPOUNDS, CRYSTAL LATTICES
THE CRYSTAL STRUCTURE OF THE RHOMBOHEDRAL MODIFICATION OF THE COMPOUND YAL3 67-09 M13-76825
YTTRIUM COMPOUNDS, DIFFUSION
SELF-DIFFUSION OF OXYGEN IN Y2O3 AND ER2O3 67-06 M14-71167
YTTRIUM COMPOUNDS, ELECTRICAL PROPERTIES
PHYSICAL PROPERTIES OF SOME RARE-EARTH METAL DICARBIDES 67-04 M15-67099
THERMOELECTRIC PROPERTIES OF YTTRIUM-GROUP V AND YTTRIUM-GROUP VI BINARY AND TERNARY COMPOUNDS 67-11 M15-80762
YTTRIUM COMPOUNDS, EXTRACTION
EXTRACTION OF RARE EARTHS FROM HYDROCHLORIC SOLUTIONS BY AN EXTRACTANT MIXTURE 67-08 M03-75872
YTTRIUM COMPOUNDS, INTERMETALLICS
ANGULAR VARIATION OF COERCIVE FORCE IN PERMANENT MAGNET MATERIALS 67-07 M15-73511
YTTRIUM COMPOUNDS, POWDER METALLURGY
SINTERING OF YTTRIUM OXIDE 67-03 M09-65355
PECULIARITIES OF THE VACUUM-THERMAL METHOD OF PREPARATION AND SOME PROPERTIES OF YTTRIUM AND GADOLINIUM BORIDES 67-04 M09-66266
PRODUCTION OF LANTHANUM, GADOLINIUM AND YTTRIUM HEXABORIDES USING ELECTRON BEAM HEATING 67-06 M09-71460
BENCH SCALE ISOSTATIC PRESSING 67-08 M09-75525
VACUUM-THERMAL PREPARATION OF YTTRIUM AND GADOLINIUM BORIDES, AND SOME OF THEIR PROPERTIES

67-10 M09-78998
DEVELOPMENT OF A TECHNIQUE OF PREPARATION OF LA, GD, AND Y HEXABORIDES USING ELECTRON-BEAM HEATING 67-12 M09-82781
YTTRIUM COMPOUNDS, REACTIONS /CHEMICAL/
INVESTIGATION OF THE CONDITIONS OF ALLOY PREPARATION IN THE SYSTEM YB6-LAB6 67-02 M09-60179
INVESTIGATION OF THE CONDITIONS OF PREPARATION OF YB6-LAB6 ALLOYS 67-09 M09-76912
YTTRIUM COMPOUNDS, SINTERING
SENSITIVE RESONANT FREQUENCY TECHNIQUE FOR THE STUDY OF SINTERING KINETICS 67-07 M09-72828

ZEEMAN EFFECT
NUCLEAR ZEEMAN EFFECT OF 119SN DISSOLVED IN CHROMIUM 67-02 M16-60592
ZEEMAN EFFECT OF AL203..V3PLUS IN HIGH MAGNETIC FIELD 67-08 M15-74435
ZEOLITES
SEE ION EXCHANGE RESINS
ZETA PHASE
STUDY OF THE VANADIUM-CARBON AND VANADIUM-CHROMIUM-CARBON SYSTEMS 67-04 M14-67199
ISOLATION OF THE ZETA PHASE IN THE SYSTEM TANTALUM-CARBON 67-06 M14-71168
ZINC
ELECTROLYSIS OF DUMP SLAGS FROM COPPER SMELTING 67-03 M03-65576
CURRENT DEVELOPMENTS IN ZINC AS AN ENGINEERING MATERIAL 67-06 M20-70655
ZINC, ALLOYING ADDITIVE
EFFECT OF ALLOYING ELEMENTS ON RECRYSTALLIZATION OF MG ALLOYS 67-02 M14-62233
HALL COEFFICIENT OF ALUMINUM RICH ALLOYS 67-02 M15-59059
INFLUENCE OF ZN ON THE PROPERTIES OF CREEP-RESISTING MG-ND-ZR ALLOYS 67-02 M17-61197
MARTENSITE IN TERNARY CU-ZN-BASED BETA-PHASE ALLOYS 67-03 M14-65079
THE INFLUENCE OF ALLOYING ELEMENTS ON ALUMINUM ANODES IN SEA WATER 67-03 M18-65473
THE EFFECT OF THE ZN CONCENTRATION ON THE INTERNAL FRICTION OF BRASSES 67-04 M15-67234
APPLICATION OF HIGH-PURITY AL IN THE DEVELOPMENT OF HIGH-STRENGTH AL-ZN-MG-CU ALLOYS 67-06 M17-71979
STUDY ON HIGH-STRENGTH CASTING AL-SI-MG-ZN ALLOYS. PT. 1 67-08 M17-75357
SOLUTE INTERACTIONS WITH ZINC IN DILUTE SOLUTION WITH MOLTEN BISMUTH.. 1-THIRD-ELEMENT EFFECTS 67-09 M15-77720
IMPROVEMENT OF AGE HARDENING QUALITIES OF JEWELRY SILVER BY ZN ADDITIVES 67-10 M10-79077
X-RAY K ABSORPTION EDGES OF ALLOYS. PT. 3. COPPER-ZINC AND NICKEL-ZINC SYSTEMS 67-12 M13-83268
THE MORPHOLOGY AND MORPHOLOGICAL STABILITY OF LARGE PRECIPITATES FORMED IN CUZN AND CUZN SN 67-12 M14-82759
OBSERVATIONS OF MARTENSITE IN TERNARY CU-ZN BASED BETA-PHASE ALLOYS 67-12 M14-82980
SOLUTE INTERACTIONS WITH ZINC IN DILUTE SOLUTION WITH MOLTEN BISMUTH. PT. 2. FOUR- AND FIVE-COMPONENT SOLUTIONS 67-12 M15-82580
MAGNETIC ANALYSIS OF DILUTE BINARY ALLOYS OF COPPER, ZINC, AND MAGNESIUM IN ALUMINUM 67-12 M15-82966
EFFECT OF PRECIPITATION ON THE SUPERCONDUCTING PROPERTIES OF AN AL-15 AT . PER CENT ZN ALLOY 67-12 M16-82867
DEFORMATION OF SILVER-ZINC SINGLE CRYSTALS AS A FUNCTION OF ZINC CONCENTRATION 67-12 M17-82716
POLARGRAPHIC ANALYSIS OF CADMIUM AND ZINC IN AN ALLOY OF THESE TWO METALS 67-12 M19-83492
ZINC, ANODES
SACRIFICIAL ZINC RIBBON ANODES--CATHODIC PROTECTION WITH RIBBON TYPE ZINC ANODES 67-06 M18-72334
ZINC, ATOMIZING
THE MECHANISM OF BREAKING THE LIQUID METAL STREAM BY A GAS JET 67-08 M09-75423
ZINC, BENEFICIATION
AT WORLDS NONFERROUS PLANTS --OXYGEN SMELTING GETS MAJOR PUSH 67-01 M03-58573
STUDY OF THE FEASIBILITY OF REMOVING ZINC FROM POLYMETALLIC CONCENTRATES DURING OXYGEN JET MELTING 67-05 M03-69533
ZINC, BINARY SYSTEMS
THE STUDY OF FUSING OF VARIOUS ALLOYS MADE BY MEANS OF X-RAY FLUORESCENCE ANALYSIS 67-02 M14-60122
THE EXISTENCE OF INTERMETALLIC COMPOUNDS IN THE NB-ZN SYSTEM 67-03 M13-65796
STUDY OF PHASE DIAGRAMS IN BINARY SYSTEMS BASED ON ISOACTIVITIES 67-04 M13-67849
PRE-PRECIPITATION AND PRECIPITATION PHENOMENA IN THE AL-ZN SYSTEM 67-04 M14-66534
INTERDIFFUSION IN THE ZN-U SYSTEM 67-04 M15-66662
THE CONSTITUTION OF THE NB-ZN-O SYSTEM AT 1800 F 67-05 M13-69842
DESEGREGATION AND RESEGREGATION AS OBSERVED BY HIGH-TEMPERATURE MICROSCOPY 67-05 M14-68587
TRANSFORMATIONS OF INTERMETALLIC PHASES OF THE ANTIMONY-ZINC SYSTEMS 67-05 M14-69133
THE MIXING HEATS OF SB WITH B METALS. PT. 1. SYSTEMS WITH ZN AND CD 67-05 M15-68487
DILATOMETRIC INVESTIGATIONS OF BINARY ALLOYS IN THE AL-ZN SYSTEMS 67-05 M15-69054
NUCLEAR MAGNETIC RESONANCE IN LIQUID GALLIUM ALLOYS 67-05 M16-69785
AN INTERPRETATION OF THE SUPERPLASTICITY PHENOMENON IN TWO-PHASE ALLOYS 67-06 M17-71075
THE CRYSTAL STRUCTURE OF GD13ZN58 67-07 M13-73438
UTILIZATION OF THE POTENTIOSTATIC PULSE METHOD IN THE STUDY OF CORROSION PROCESSES 67-07 M18-73698
THE STRUCTURE OF SOME EUTECTICS WITH HIGH RATIOS OF THE VOLUME FRACTIONS 67-08 M14-76054
ELECTRICAL RESISTANCE AND ELECTRICAL TRANSPORT IN THE BI-ZN SYSTEM AT 700 C 67-08 M15-74644
DOUBLE INVERSION OF ELECTRIC TRANSPORT IN THE AL-ZN SYSTEM IN LIQUID STATE 67-08 M15-74645
THE CRYSTAL STRUCTURES OF COMPOUNDS IN THE SCANDIUM-ZINC SYSTEM 67-09 M13-76938
STUDY OF ALLOYS IN THE NIOBIUM-ZINC SYSTEM 67-10 M14-79630
INVESTIGATION OF THE THERMODYNAMIC PROPERTIES OF THE GALLIUM-MERCURY AND GALLIUM-ZINC SYSTEMS 67-10 M15-78671
PHASE RELATIONS IN THE ZINC-RICH PORTION OF THE PLUTONIUM-ZINC SYSTEM 67-11 M14-80316
THERMODYNAMICS OF FERRITIC SOLUTIONS OF THE IRON-ZINC SYSTEM AT 700 TO 900 C 67-11 M15-81332
SOME ENERGY MEASUREMENTS RELATED TO STRUCTURE OF METALLIC LIQUIDS 67-11 M16-81570
ELECTROLYTIC DEPOSITION OF ZINC-CADMIUM ALLOY FROM ACETATE BATHS 67-12 M12-83491
PHASE RELATIONS AND THERMODYNAMIC PROPERTIES FOR THE SAMARIUM-ZINC SYSTEM 67-12 M13-82577
THERMODYNAMIC PROPERTIES OF THE CALCIUM-ZINC SYSTEM 67-12 M15-82575
THE MECHANICAL PROPERTIES OF THREE GAMMA BRASS TYPE INTERMEDIATE PHASES--GAMMA CUZN, GAMMA AGZN, AND GAMMA CUCD 67-12 M17-82864
ZINC, BONDING
ADHESIVES JOIN CURVED PARTS 67-04 M11-66382
THE ADHESIVE BONDING OF ZN, CU, BRASS AND BRONZE-FINISHED STEEL 67-05 M11-69033
ZINC, CASTING
CONTINUOUS CASTING OF NON-FERROUS METAL BILLETS AND SLABS. PT. 1 67-02 M03-61644
THE GATING OF DIECASTINGS 67-03 M06-65682
SOLIDIFICATION OF A CASTING IN PRESSURE DIE CASTING 67-04 M06-66420
TRENDS IN DIECASTING 67-04 M06-68114
METHODS OF TREATING METAL AND STEEL MELTS BY VIBRATION WITH EMPHASIS ON GRAIN REFINEMENT BY TREATING WITH ULTRASONIC WAVES DURING SOLIDIFICATION 67-09 M06-77845
DIE CAST AND WROUGHT ZINC, PT. 1 67-11 M01-80199
DIECASTING AUTOMATION FOR A CUSTOM SHOP 67-12 M06-81957
ZINC, CASTINGS
PREPARATION CAN LOWER COST OF PLATING ZINC DIE CASTINGS 67-08 M12-74494
ZINC, CHEMICAL ANALYSIS
POLAROGRAPHIC METHODS OF SIMULTANEOUS DETERMINATION OF TIN, NICKEL, LEAD AND ZINC IN BRONZE 67-01 M19-57495
SEPARATION OF TRACES OF ZINC WITH TRI-ISOOCTYLAMINE AND ITS SPECTROPHOTOMETRIC DETERMINATION IN ELECTROLYTIC NICKEL 67-06 M19-70971
ZINC, COATING

NO TIME FOR REWORK 67-02 M12-59036
NEW PROTECTIVE COATING FOR NON-FERROUS METALS 67-02 M18-61094
DECORATIVE PLATING IN THE GERMAN MOTORCAR INDUSTRY 67-03 M12-65150
A NEW BLACK CHROMIUM PLATE 67-03 M12-65326
EXPERIENCE WITH EPOXY POWDER SPRAY METHODS FOR METAL COATING 67-03 M12-65568
IMPREGNATION, SEALING AND COATING WITH EPOXY RESINS 67-03 M12-65569
PERFORATED ZINC SHEETS BY ELECTROFORMING 67-03 M12-65679
CU-NI AND CU-NI-CR COATINGS OF ZINC PARTS 67-04 M12-67186
MULTI-DUTY COATING FOR NONFERROUS METALS 67-06 M12-70226
POLISH ON ZINC IS PRESERVABLE 67-06 M12-70659
NEW COATINGS FOR ZINC 67-06 M12-70727
CHROMATE CONVERSION COATINGS FOR ZINC AND CADMIUM 67-07 M12-73644
FLEXIBILITY OF OPERATION FOR JOBBING PLATER 67-11 M12-81494

ZINC, COATINGS
THE POLAROGRAPHIC DETERMINATION OF ALUMINUM IN ZINC-BASE ALLOYS AND IN THE ZINC LAYER OF GALVANIZED SHEETS 67-01 M19-57912
PLATING ON ALUMINUM AND ALUMINUM ALLOYS 67-02 M12-60991
HOW TO SELECT ZINC-COATED STEELS FOR PAINTING 67-03 M12-65665
CORROSION PREVENTION BY ZINC-RICH PAINT SYSTEMS 67-04 M12-66659
PROPERTIES OF ZINC COATINGS AFTER HEAT TREATMENT 67-05 M12-68372
COBALT --3-- AND CHROMIUM --3-- COMPLEX COMPOUNDS AS BRIGHTENERS IN CYANIDE ZINC BATHS 67-05 M12-68715
SPRAYED ZINC FINISH--LONGER FURNITURE LIFE 67-05 M12-69875
DIP CLEANING PLUS METAL PRETREATMENT 67-05 M12-69876
OXIDATION AND SELF-REPAIR OF THE ZINC-BASED HIGH TEMPERATURE COATING FOR NIOBIUM 67-05 M18-69841
NEW LOOK AT COATING THICKNESS 67-05 M19-68469
METALLIZING. PT. 9 67-06 M12-72136
RECORDING CHARACTERISTICS OF THICK COBALT-ZINC-PHOSPHORUS FILMS 67-07 M12-74126
STRENGTH OF IRON-ZINC ALLOY LAYERS 67-07 M17-73234
INTERNAL STRESS IN ELECTRODEPOSITS 67-07 M17-73626
HOT DIP GALVANIZING AS CORROSION PROTECTION 67-07 M18-73232
THE CORROSION PROTECTION OF STEEL STRUCTURES BY SPRAY GALVANIZING 67-07 M18-73233
CORROSION BEHAVIOR OF ZINC DUST-CONTAINING PAINTS AND OF HOT DIP GALVANIZED COATINGS IN INDUSTRIAL ATMOSPHERES 67-07 M18-73236
THE PAINTING OF METAL-SPRAYED STRUCTURAL STEEL 67-07 M18-73641
THE ADHERENCE OF ZINC COATS ON STEEL WIRE 67-08 M12-75074
EFFECT OF MANUFACTURING CONDITIONS ON THE APPLICABILITY OF ZINC-COATED STEEL WIRE 67-08 M12-75394
THE LARGE-SCALE DEPOSITION OF PROTECTIVE LAYERS ON STEEL STRIP BY VACUUM DEPOSITION 67-08 M12-75671
THE ATMOSPHERIC CORROSION OF METALS AND MEASURES FOR THEIR PROTECTION UNDER CERTAIN CONDITIONS BY GALVANIC ZN AND CD COATINGS ON STEEL 67-08 M18-75513
INFLUENCE OF ZINC DUST LOADINGS. ZINC RICH PAINTS IN HIGHLY CORROSIVE ENVIRONMENTS 67-08 M18-75743
TEST ON PROTECTIVE COATINGS FOR POWER TRANSMISSION TOWERS. PT. 3 67-08 M18-76250
COMPARATIVE INVESTIGATION OF METHODS TO DETERMINE THICKNESS OF ZINC COATS ON STEEL WIRE 67-09 M12-77194
DIFFUSION COATING OF ZINC ON SINTERED IRON PARTS AND ATMOSPHERIC CORROSION RESISTANCE OF THE COATED PRODUCTS 67-09 M12-77812
SURFACE PREPARATION AND ITS RELATIONSHIP TO WEAKNESS OF A COATING 67-09 M12-77813
EFFECT OF HOT DIP GALVANIZING OF WIRE ON THE THICKNESS AND STRUCTURE OF ZINC COAT 67-09 M12-78284
THE HOT DIP GALVANIZING INDUSTRY 67-10 M12-78558
ZINC IN ANTICORROSION COATINGS 67-10 M12-78918
STRESS DURING THE DEPOSITION OF ZINC ON COPPER SUBSTRATE 67-10 M12-79052
ELECTROLYTIC EXTRACTION OF CO-ZN ALLOYS FROM A PHOSPHATE BATH 67-10 M12-79396
ZINC FOR CORROSION PROTECTION. PT. 2 67-10 M12-79441
WELDING OF PRESERVED ROLLED STEEL 67-11 M11-80871
AUTOMATIC METALLIZING OF BUTANE BOTTLES 67-11 M12-81400
THICKNESS MEASUREMENT OF ZN COATINGS 67-11 M19-80696
METALLIZED ZN COATINGS FOR CORROSION PROTECTION OF STEEL IN SEA WATER 67-12 M18-82353

ZINC, CONDENSING
METHOD AND APPARATUS FOR CONDENSING CADMIUM AND ZINC VAPORS 67-02 M03-58884

ZINC, CORROSION
SOME OBSERVATIONS OF PITS NEAR GRAIN BOUNDARIES AND OF GRAIN BOUNDARY MIGRATION DURING FATIGUE IN ZINC POLYCRYSTALS 67-02 M13-59069
CORROSION RESISTANCE OF COATING COMPOSED OF ZINC AND OTHER METALS--CORROSION PREVENTION OF TRACK MATERIALS 67-02 M18-59159
CONTRIBUTION TO THE PASSIVATION CHARACTERISTICS OF ZINC IN SATURATED ZINC SULFATE SOLUTIONS 67-02 M18-60116
THE CORROSION OF ZINC, CADMIUM AND LEAD IN GAPS 67-02 M18-60797
A RADIOTRACER STUDY ON THE REACTION BETWEEN ZINC AND CHROMATE. PT. 2. THE CORROSION OF ZINC IN DILUTE CHROMATE SOLUTIONS 67-04 M18-66691
GALVANIC PITTING IN METALLIC COATINGS 67-04 M18-66715
CORROSION IN CATHODE ZINC 67-04 M18-67521
ANODIC DISINTEGRATION OF METALS UNDERGOING ELECTROLYSIS IN AQUEOUS SALT SOLUTIONS 67-05 M18-69475
CAVITATION DAMAGE AND CRYSTAL STRUCTURE --A STUDY OF CAVITATION DAMAGE FROM THE VIEWPOINT OF MATERIAL SCIENCE. PT. 3.-- 67-06 M18-70780
METALLOGRAPHIC STUDIES ON THE COMMENCEMENT OF DESTRUCTION OF METALLIC MATERIALS BY CAVITATION IN WATER OF 50 TO 55 C 67-07 M18-72481
SOLUTIONS FOR INDICATION OF BASIS METAL CORROSION 67-07 M18-72773
ROLE OF ANIONS IN THE CORROSION AND CORROSION-INHIBITION OF ZINC IN AQUEOUS SOLUTIONS 67-07 M18-73699
STUDIES ON PROTECTIVE METHODS OF STEEL STRUCTURES AT HARBORS. PROTECTIVE EFFECT OF ZINC COATING ON STEEL BELOW SEA WATER LEVEL. PT. 2 67-08 M18-74679
ELECTROLYTIC A-C CORROSION OF SOME METALS 67-08 M18-76255
CRITERIA OF SOIL AGGRESSIVENESS TOWARDS BURIED METALS. PT. 3. VERIFICATION OF PREDICTED BEHAVIOR OF SELECTED SOILS 67-09 M18-77488
THE CORRECT TREATMENT OF THE SURFACE OF ZINC SPECIMENS IN CORROSION INVESTIGATIONS 67-10 M18-78917
MEASUREMENT OF ATMOSPHERIC FACTORS AFFECTING THE CORROSION OF METALS 67-11 M18-80689
THE EFFECTS OF ATMOSPHERIC FACTORS ON THE CORROSION OF ROLLED ZINC 67-11 M18-80692
CORROSIVENESS OF VARIOUS ATMOSPHERES 67-11 M18-81524
ANODIC DISSOLUTION OF COPPER-ZINC ALLOYS IN ALKALINE SOLUTIONS 67-11 M18-81548
ON USING EXOELECTRON EMISSION AND ELLIPSOMETRY FOR INVESTIGATING INHIBITORS AND STIMULATORS OF ATMOSPHERIC CORROSION OF METALS 67-12 M18-82305
GALVANIC PROTECTION--ANODIC POLARIZATION OF SEVERAL GRADES OF SPANISH ZINC 67-12 M18-83578

ZINC, CORROSION ENVIRONMENTS
ACTION OF MOLTEN ZN ON NI STEELS 67-04 M14-66340

ZINC, CRYSTAL DEFECTS
THE THEORY OF STACKING-FAULT ENERGIES IN CLOSE-PACKED METALS 67-05 M13-68759

ZINC, CRYSTAL GROWTH
THE GROWTH MORPHOLOGY OF ZINC AND CADMIUM SINGLE CRYSTALS INVESTIGATED BY ELECTRON MICROSCOPY 67-01 M14-57578
GROWTH OF ZINC SINGLE-CRYSTAL FOILS FROM THE MELT

67-01 M14-58783
ON THE INFLUENCE OF ULTRASONIC TREATMENTS ON THE RECRYSTALLIZATION OF ZINC 67-06 M14-71863
NUCLEATION OF CRYSTALS IN MULTILAYER METALLIC ADSORBATES 67-10 M14-79409

ZINC, CRYSTAL LATTICES
CALCULATION OF CLEAVAGE CHARACTERISTICS OF HEXAGONAL-CLOSE-PACKED CRYSTALS 67-01 M13-58456
GROWTH OF DEFORMATION TWINS IN ZINC CRYSTALS 67-01 M17-57484
PROBLEM OF EXPOSING DISLOCATIONS IN METALLIC CRYSTALS BY SELECTIVE ETCHING 67-02 M13-60784
ORIENTATION DEPENDENCE OF A DISLOCATION ETCH FOR ZINC 67-02 M13-61082
DEPENDENCE OF THE STARTING STRESS FOR PYRAMIDAL DISLOCATIONS ON THE TEMPERATURE AND DEGREE OF PERFECTION OF ZINC CRYSTALS 67-04 M13-67647
EFFECTS OF HYDROSTATIC PRESSURE ON TERMINAL STRUCTURE AND MECHANICAL BEHAVIOR OF BERYLLIUM 67-06 M13-72224
STUDY OF DISLOCATION AND SLIP SYSTEMS IN CD AND ZN SINGLE CRYSTALS 67-06 M13-72371
THE RECRYSTALLIZATION BEHAVIOUR OF ZINC ALLOYS CONTAINING MAGNESIUM, CADMIUM, COPPER, SILVER, LEAD AND IRON 67-06 M14-69903
THE DEPENDENCE OF THE CALCULATED ELASTIC CONSTANTS ON THE C..A RATIO FOR HEXAGONAL CLOSE-PACKED STRUCTURE METALS 67-06 M17-71498
DISLOCATION DAMPING IN ZINC SINGLE CRYSTALS 67-07 M14-72886
STUDY OF DISLOCATION MOBILITY IN ZINC SINGLE CRYSTALS 67-08 M13-74642
NONCENTRAL FORCE MODEL FOR HEXAGONAL CLOSE-PACKED CRYSTAL LATTICES 67-08 M13-75229
THE AXIAL ORIENTATION OF NORMAL STRESSES IN ZN AND SB SINGLE CRYSTALS 67-08 M17-75902
STRESS FIELDS DUE TO DISLOCATION PILE-UPS IN HEXAGONAL METALS DURING ANISOTROPIC TREATMENT 67-09 M13-76794
STRESS FIELDS AROUND THE EDGE DIPOLE IN CD, ZN AND MG ANISOTROPIC CRYSTALS 67-09 M13-77516
ON THE WORK-HARDENING OF HCP METALS 67-10 M17-79731
EFFECT OF CADMIUM ALLOY CONCENTRATION ON THE SUBSTRUCTURE AND DISLOCATION DENSITY IN ZINC SINGLE CRYSTALS 67-12 M13-82339
MOBILITY OF EDGE DISLOCATIONS IN THE BASAL SLIP SYSTEM OF ZINC 67-12 M13-83267

ZINC, CRYSTAL STRUCTURE
NUCLEATION OF DEFORMATION TWINS IN ZINC BICRYSTALS 67-05 M17-68294

ZINC, DIFFUSION
DIFFUSION OF IRON IN SOME MOLTEN NONFERROUS METALS 67-01 M14-57515
DETERMINATION OF DIFFUSION COEFFICIENTS IN METALS BY A RESISTOMETRIC METHOD--APPLICATION TO THE DIFFUSION OF ZN IN AL 67-01 M14-57561
SOME RELATIONSHIPS BETWEEN SELFDIFFUSION AND MELTING BEHAVIOR OF METALS 67-02 M14-60881
MASS-TRANSFER FROM SOLID METAL CYLINDER INTO LIQUID METAL 67-02 M15-61852
DIFFUSION OF SN AND ZN IN SN AND IN HOMOGENEOUS SN-ZN ALLOYS 67-03 M14-65368
STRUCTURAL INVESTIGATION OF REACTION DIFFUSION IN THE COPPER-ZINC SYSTEM 67-04 M14-66486
EFFECT OF METALS SOLUBLE IN MERCURY ON THE RATE OF MERCURY DIFFUSION OVER THE SURFACE OF POLYCRYSTALLINE ZINC 67-04 M14-67637
PRECIPITATES INDUCED IN GAAS BY THE INDIFFUSION OF ZINC 67-05 M14-68626
CORRELATION COEFFICIENT AND THE ISOTOPE EFFECT FOR THE DIFFUSION OF ZINC IN SILVER 67-06 M14-69908
ISOTOPE EFFECT FOR THE DIFFUSION OF ZINC IN COPPER, AND ORDERED AND DISORDERED CUZN 67-06 M14-69909
ANISOTROPIC DIFFUSION OF MERCURY IN ZINC 67-06 M14-69911
INVESTIGATION OF THE DIFFUSION IN COPPER MICROWIRES 67-06 M14-70336
DIFFUSION AND SOLUBILITY OF ZINC, CADMIUM, INDIUM AND IRON IN LEAD SELENIDE 67-06 M14-70939
ANISOTROPIC DIFFUSION OF NICKEL IN ZINC STUDIED BY AN AUTORADIOGRAPHIC METHOD 67-08 M14-74667
INSB AND INAS LATTICE CHANGE DURING ZINC DIFFUSION 67-09 M14-77456
MEASUREMENT OF DIFFUSION PROFILE OF ZN IN N-TYPE GAAS BY A SPREADING RESISTANCE TECHNIQUE 67-09 M14-78063
SOLID STATE DIFFUSION IN FE-ZN 67-10 M14-78400
ANISOTROPIC ISOTOPE EFFECT FOR DIFFUSION OF ZINC AND CADMIUM IN ZINC 67-10 M14-79411
DIFFUSION OF ZINC IN COPPER CRYSTAL FILAMENTS 67-10 M14-79847
REACTIVE DIFFUSION OF ANTIMONY AND ZINC WITH ELEMENTS OF THE SIXTH GROUP AND ENERGY OF THE CHEMICAL BOND 67-11 M14-80164
DIFFUSION OF ZINC IN GALLIUM ARSENIDE UNDER ARSENIC VAPOR PRESSURE 67-11 M14-80813

ZINC, DISSOLVING
ON THE DISSOLUTION OF ZINC IN CYANIDE SOLUTIONS 67-01 M02-57269

ZINC, ELECTRICAL PROPERTIES
THE ELECTRICAL RESISTANCE OF SILVER, COPPER, ALUMINUM, ZINC AND SODIUM BETWEEN 4 AND 298 K. DEPENDS ON THE IMPURITIES 67-02 M15-59906
ORIENTATION DEPENDENCY OF A RESISTANCE INCREASE CAUSED BY ALPHA IRRADIATION 67-02 M15-59910
MEASURING THE ELECTRICAL CONDUCTIVITY OF GALVANIC DEPOSITS IN THE COURSE OF ELECTROLYSIS 67-05 M15-68738
ABSORBED SPECIMEN CURRENT ANOMALY OF CU-ZN DIFFUSION COUPLE IN ELECTRON SCANNING MICROSCOPE 67-06 M15-71550
POLARIZATION OF LIQUID ZINC CATHODE DURING ELECTROLYSIS OF ZIRCONIUM-BEARING POTASSIUM AND SODIUM CHLORIDE MELTS 67-09 M03-77122
OXIDATION OF EVAPORATED ZINC FILM 67-12 M15-83549

ZINC, ELECTRODEPOSITION
SOME REACTIONS ON THE INSOLUBLE LEAD --PB-- ANODE DURING ELECTRODEPOSITION OF ZINC 67-02 M03-61277

ZINC, ELECTROLYSIS
INFLUENCE OF CHLORIDE IONS ON THE ELECTRODEPOSITION OF ZINC AND CADMIUM IN THE PRESENCE OF SURFACE-ACTIVE SUBSTANCE 67-08 M03-74480
AUTOMATIC SYSTEM FOR CONTROL OF COPPER WHEN SEPARATING COPPER AND CADMIUM IMPURITIES FROM ZINC ELECTROLYTES 67-08 M03-75202

ZINC, EXTRACTION
LEACHING OF COPPER AND ZINC FROM CONCENTRATES OF OXIDIZED AND MIXED COPPER-LEAD-ZINC ORES 67-01 M03-58066
LABORATORY TESTS OF WOOD RESIN OIL USED FOR FLOTATION OF OXIDE AND MIXED LEAD-ZINC ORES AND MINERALS OF ENVELOPING ROCKS 67-02 M02-59039
INFLUENCE OF CAO AND SIO2 ON EVAPORATION OF ZINC FROM SOLUTION 67-02 M03-59189
GRANULATION AND FLUIDIZER BED ROASTING OF WAELZ OXIDES UNDER SEMI-INDUSTRIAL CONDITIONS 67-02 M03-59543
METHODS OF INCREASING THE DEGREE OF DISTILLATION OF ZINC BY OXYGEN SUSPENSION MELTING OF COPPER-ZINC CONCENTRATES 67-02 M03-60081
FIRE REFINING OF CRUDE LEAD AT THE UKSTSK LEAD-ZINC COMBINE 67-02 M03-60564
APPLICATION OF ZINC CONDENSATION IN THE ELECTROTHERMIC PROCESSING OF SILVER FOAM 67-02 M03-60953
VOLATILIZATION OF ZINC FROM POLYMETALLIC CONCENTRATES SIMULTANEOUSLY WITH FLUIDIZED BED OXYGEN SMELTING 67-02 M03-60955
STUDY OF THE SINGULARITIES OF THE VOLATILIZATION OF ZINC WHEN NATURAL GAS IS USED 67-02 M03-61607
EFFECT OF OXYGEN ENRICHMENT OF BLASTS ON THE RATE OF ZINC AND LEAD SUBLIMATION FROM SLAGS --INDUSTRIAL TESTS-- 67-02 M03-62216
EFFECT OF SLAG COMPOSITION ON RATE OF REDUCTION AND SUBLIMATION OF ZINC 67-02 M03-62229
RECOVERY OF ZINC AND LEAD FROM COMPLEX LOW-GRADE SULPHIDE CONCENTRATES BY ACID PRESSURE LEACHING 67-04 M02-66676
NONFERROUS METALS AND THE CHEMICAL ENGINEER. PT. 4. LEAD, ZINC, AND MOLYBDENUM 67-04 M03-66332
DECOPPERING AND DELEADING CADMIUM SOLUTIONS 67-04 M03-67525
PRODUCTION OF ZINC ELECTROLYTE FROM WAELZ OXIDES 67-04 M03-68049
RELATIONSHIP OF ACTIVITY COEFFICIENT OF ZINC OXIDE TO SLAG COMPOSITION 67-05 M03-68225
SOLVENT EXTRACTION STUDY MAY PAVE WAY FOR PROCESSING BULK SULPHIDE CONCENTRATES 67-06 M03-71497

STATE OF ELECTROTHERMIC ZN PRODUCTION AT DUISBERGER COPPER WORKS 67-08 M03-76259
AUTOMATION IN ZINC SMELTING 67-09 M03-77001
ALKALI-ELECTROLYTIC METHOD FOR EXTRACTION OF ARSENIC FROM CONVERTER DUST 67-10 M03-79037
ELECTROTHERMAL PLANTS FOR PROCESSING ZINC-BEARING PRODUCTS 67-10 M03-79921
REPROCESSING DEEP-SINTERED COPPER-ZINC MATERIALS IN REVERBERATORY FURNACES 67-10 M03-80049
REMOVAL OF ARSENIC FROM SOLUTIONS DURING TREATMENT OF DUST FROM THE COPPER SMELTING INDUSTRY 67-10 M03-80050
METHOD OF PRECIPITATING ZINC FROM COMPLEX SOLUTIONS AFTER EXTRACTION OF COPPER 67-10 M03-80052
GRAPHITE AS CATHODE MATERIAL FOR THE PRODUCTION OF HIGH-PURITY METALS 67-11 M03-81433
REDUCTION OF ZINC FROM ZINC FERRITE IN THE PRESENCE OF CARBON 67-11 M03-81611
EFFECT OF CADMIUM, CHLORINE, SODIUM, POTASSIUM AND GERMANIUM CONTENTS ON THE TECHNICAL RESULTS OF ZINC ELECTROLYSIS 67-11 M03-81618
METHOD AND DEVICE FOR RECIRCULATORY HEATING OF ZINC RECTIFICATION COLUMNS 67-11 M03-81621
RECOVERY OF NONFERROUS METALS FROM METALLURGICAL FUMES 67-12 M03-83581

ZINC, EXTRUSION
ON THE THEORY OF THE HYDROEXTRUSION OF BRITTLE METALS 67-05 M07-69664

ZINC, FERMI SURFACE
PRESSURE DEPENDENCE OF THE LOW-FREQUENCY DE HAAS-VAN ALPHEN OSCILLATIONS IN ZN 67-02 M16-60764

ZINC, FERRITES
X-RAY DIFFRACTION STUDY OF CERTAIN MIXED FERRITES 67-02 M13-61666

ZINC, FLAMMABILITY
STUDY OF THE PYROPHORIC PROPERTIES OF SUBLIMATES OF LEAD PRODUCTION 67-02 M15-61544

ZINC, INTERMETALLICS
ANOMALOUS THERMAL CONDUCTIVITY OF CD3AS2 AND THE CD3AS2-ZN3AS2 ALLOYS 67-01 M15-57118
ANOMALOUS CONTRAST FROM AN ANTI-PHASE DOMAIN BOUNDARY IN BETA-BRASS 67-02 M13-60815
MONTE CARLO STUDIES OF VACANCY MIGRATION IN BINARY ORDERED ALLOYS 67-02 M14-60595
PREPARATION OF HOMOGENEOUS HGTE-ZNTE ALLOYS 67-02 M14-61770
THE SPECIFIC HEAT OF ZRZN2 67-03 M15-65134
GROWING MGZN2 SINGLE CRYSTALS FROM THE VAPOR PHASE 67-07 M14-72451
STUDY OF LONG PERIOD ORDERED ALLOYS BY X-RAY DIFFRACTION 67-08 M13-74415
ZINC-RICH PHASES OF THE RARE-EARTH-ZINC ALLOYS 67-08 M13-75290
MAGNETIC PROPERTIES OF ZRZN2--ITINERANT ELECTRON FERROMAGNET 67-08 M15-76171
INTERMETALLIC PHASES IN THE SYSTEMS OF ZINC WITH LANTHANUM, CERIUM, PRASEODYMIUM, NEODYMIUM, AND YTTRIUM 67-09 M13-77722
ELECTRIC AND THERMOELECTRIC EFFECTS IN A SOLID SOLUTION OF ZNXCD1-XSB 67-09 M15-76737
HEATS OF FORMATION OF AU3ZN AND AUZN 67-09 M15-77730
EFFECT OF HYDROSTATIC EXTRUSION ON THE MECHANICAL PROPERTIES OF CUZN AND TINI 67-11 M17-81529

ZINC, IRRADIATION
STIMULATED EMISSION OF ELECTRON-BEAM-PUMPED ZINC TELLURIDE SINGLE CRYSTALS 67-10 M16-79462

ZINC, LEACHING
REMOVAL OF IMPURITIES FROM ZINC SOLUTIONS OBTAINED IN PRESSURE LEACHING 67-02 M03-60954

ZINC, MACHINING
MACHINABILITY OF MAGNESIUM ALLOY AZ 63 TURNING. STUDY ON THE MACHINING OF MAGNESIUM ALLOY. PT. 1 67-12 M08-83113

ZINC, MAGNETIC PROPERTIES
THEORY OF THE GALVANOMAGNETIC PROPERTIES OF MAGNESIUM AND ZINC 67-02 M15-60766
MAGNETIC BREAKDOWN IN ZINC AND ITS ALLOYS AS SEEN IN THE DE HAAS-VAN ALPHEN EFFECT 67-12 M15-82524

ZINC, MECHANICAL PROPERTIES
PROPAGATION OF A CRACK FILLED WITH LIQUID METAL 67-02 M17-59434
DETAILS OF THE ADSORPTIVE DECREASE IN STRENGTH OF POLYCRYSTALLINE ZINC IN THE PRESENCE OF GALLIUM 67-02 M17-59637
EFFECT OF METALS DISSOLVED IN MERCURY ON THE ADSORPTIVE DECREASE IN STRENGTH OF ZINC 67-02 M17-59658
WORK HARDENING CAUSED BY INTENSIVE ULTRASONIC TREATMENTS IN SINGLE CRYSTALS 67-02 M17-59911
CONTRIBUTION TO THE STUDY OF MAGNESIUM, ZIRCONIUM, BERYLLIUM AND ZINC BEHAVIOR DURING ALTERNATIVE PLASTIC DEFORMATIONS 67-03 M17-65554
ACTIVATION ENERGY OF THE TEMPERATURE BACKGROUND OF INTERNAL FRICTION 67-04 M17-66497
THE CONFIGURATION OF IMPACT ENERGY-DEFLECTION DIAGRAMS 67-04 M17-67412
STRAIN-RATE DEPENDENCE OF THE FLOW STRESS FOR BASAL SLIP IN ZINC 67-04 M17-67582
THE EXPLICIT YIELD POINT OF POLYCRYSTALLINE ZN AND THE EFFECT OF ULTRASONIC TREATMENT 67-04 M17-68008
ON THE VALIDITY OF THE LAW OF CONSTANT NORMAL STRESS FOR THE TENSILE CLEAVAGE OF ZINC SINGLE CRYSTALS 67-05 M17-68299
CONTRIBUTION TO THE STUDY OF THE PLASTICITY OF ZINC 67-05 M17-68541
TEXTURE STRENGTHENING 67-05 M17-68669
FRICTION AND WEAR TESTING UNDER HIGH TEMPERATURE OF CAST AND OTHER METALS 67-05 M17-68953
INTERNAL FRICTION PHENOMENA CONNECTED WITH THE GRAIN BOUNDARY IMPURITY CONCENTRATION IN A ZN-PB ALLOY 67-06 M17-70570
A THEORETICAL FRACTURE CRITERION AND CLEAVAGE IN ZINC 67-06 M17-70634
CREEP--FATIGUE BEHAVIOR OF POLYCRYSTALLINE ZINC 67-06 M17-70956
APPLICATION OF ANISOTROPIC ELASTICITY THEORY TO THE CHOICE OF PRIMARY SLIP SYSTEMS IN HCP METAL CRYSTALS 67-06 M17-71277
TRANSIENT ELASTIC WAVES IN ANISOTROPIC PLATES 67-06 M17-71714
CREEP STRENGTH OF ZINC IN PRESENCE OF MERCURY AND GALLIUM 67-07 M17-73164
INFLUENCE OF GRAIN SIZE ON ADSORPTION-CAUSED DECREASE IN STRENGTH OF POLYCRYSTALLINE ZINC 67-07 M17-73167
ACCELERATED CREEP IN METAL SINGLE CRYSTALS CAUSED BY ELECTRIC CHARGING OF THEIR SURFACE 67-07 M17-73172
THE VALIDITY OF THE ASSUMPTION OF PLANE STRAIN CONDITIONS IN PLASTIC DEFORMATION PROCESSES AND YIELD POINT PHENOMENA IN METALS AND ALLOYS 67-08 M17-75576
THE JOINT EFFECTS OF RADIATION AND BOUNDARY-ACTIVE COATING ON THE MECHANICAL PROPERTIES OF SINGLE CRYSTALS OF METALS 67-09 M17-76720
DEFORMATION OF ZINC SINGLE CRYSTALS AT HIGH STRAIN RATES 67-09 M17-78229
THE COMBINED EFFECTS OF IRRADIATION AND A SURFACE-ACTIVE MEDIUM ON THE MECHANICAL PROPERTIES OF MONOCRYSTALS OF ZINC 67-10 M17-78963
PLASTICITY OF CADMIUM AND ZINC WHISKER CRYSTALS 67-10 M17-79449
CHANGE IN THE SHAPE OF METALS UNDER THE SIMULTANEOUS EFFECTS OF THERMAL CYCLING AND AN EXTERNAL LOAD 67-10 M17-79638
ADSORPTION-INDUCED REDUCTION IN THE STRENGTH OF ZINC COATED WITH THIN MERCURY FILMS OVER A LIMITED SURFACE AREA 67-12 M17-82437
A STUDY OF FATIGUE WITHIN THE FRAMEWORK OF THE KINETIC CONCEPT OF FRACTURE 67-12 M17-83485

ZINC, METAL WORKING
SOME ASPECTS OF THE PRESS FORMABILITY OF COMMERCIAL-PURITY ZINC STRIP 67-02 M17-60227
HOT DEEP DRAWING--B&P EXPERIENCE 67-03 M07-65036
THE DEFORMATION OF SHEET METAL THROUGH UNDERWATER SPARK DISCHARGES 67-04 M08-67060
TEMPERATURE RANGE FOR HOT ROLLING ZN BILLETS INTENDED FOR PROCESSING IN COILS 67-05 M07-68979
METAL TRANSFER AND BUILD UP IN FRICTION AND CUTTING 67-08 M08-76058

ZINC, MICROSTRUCTURE
GRAIN-BOUNDARY SLIDING IN METALS 67-02 M13-61780
EFFECT OF THE CADMIUM IMPURITY CONCENTRATION ON THE SUBSTRUCTURE OF ZINC SINGLE CRYSTALS 67-06 M13-70193
GRAIN BOUNDARY MIGRATION DURING RECRYSTALLIZATION. PT. 1. ZONE-REFINED LEAD, ZINC, TIN AND BISMUTH. PT. 2. ZONE-REFINED ALUMINUM 67-06 M14-69933
THE ORIENTATION DEPENDENCE OF DISLOCATION DAMPING

IN ZINC 67-06 M14-69939
STRESS-INDUCED MOVEMENT OF TWIN BOUNDARIES IN ZINC 67-06 M14-72225
THE DEVELOPMENT OF SLIP BAND STEPS ON THE SURFACE OF ZINC SINGLE CRYSTALS 67-11 M13-80735
BASAL DISLOCATION MOBILITY IN ZINC SINGLE CRYSTALS 67-11 M13-81540

ZINC, OPTICAL PROPERTIES
OPTICAL AND ELECTRICAL CHARACTERISTICS OF P-N JUNCTIONS IN ZINC SULFIDE 67-11 M15-80628

ZINC, PAINTS
LATEST DEVELOPMENTS IN ZINC-RICH PAINTS 67-03 M12-65627

ZINC, PHASE TRANSFORMATIONS
THE INFLUENCE OF LOW-FREQUENCY VIBRATION ON THE NUCLEATION OF SOLIDIFYING METALS 67-02 M14-61840

ZINC, PHYSICAL PROPERTIES
THERMAL RELAXATION OF MECHANICAL VIBRATIONS IN POLYCRYSTALS 67-04 M15-67824
COMPRESSIBILITY AND BINDING ENERGY OF THE SIMPLE METALS 67-07 M15-73942
CHANGE IN THE SHAPE OF METALS UNDER THE COMBINED ACTION OF THERMAL CYCLES AND EXTERNAL LOADS 67-08 M15-74879
ENERGY OF THE DONOR GROUND STATE IN CDS, CDSE, AND ZNO 67-11 M15-80629
REDUCTION IN THE SURFACE TENSION OF SOLID METALS DUE TO ATOMS OF LIQUID SURFACE-ACTIVE METALS ADSORBED ON THEIR SURFACE 67-12 M15-82180

ZINC, POWDER METALLURGY
ZINC POWDER--MANUFACTURING AND DELIVERY SPECIFICATIONS 67-05 M09-69236
ELECTROLYTIC PRECIPITATION OF ZINC POWDERS FROM ZINCATE SOLUTIONS 67-08 M09-75203
PREPARATION OF FINE METAL PARTICLES BY MEANS OF EVAPORATION IN HELIUM GAS 67-08 M09-75933

ZINC, PRECIPITATION
THE MECHANISM OF STRUCTURE TRANSFORMATIONS IN SUPERSATURATED AL-ZN ALLOYS 67-06 M14-70409

ZINC, PROTECTIVE COATINGS
PROTECTION OF STRUCTURAL STEEL BY FLAME-SPRAYED METALS AND PAINTS 67-05 M12-68820

ZINC, REACTIONS /CHEMICAL/
INFLUENCE OF CHLORIDE IONS ON THE RATE OF THE ELECTRODE PROCESSES UNDER CONDITIONS OF ADSORPTION OF ADDITIVES ON THE ELECTRODES 67-08 M03-74477
THE INFLUENCE OF H4SIO4 AND OTHER ADMIXTURES UPON THE CHLORIDIZING VOLATILIZATION OF ZN FROM ZNO WITH CACL2 67-08 M03-74654
INTERMETALLIC COMPOUND FORMATION BETWEEN COBALT AND ZINC IN MERCURY 67-08 M14-74677
THERMODYNAMIC QUANTITIES IN THE EXCHANGE OF ZINC WITH SODIUM IONS IN VARIOUSLY CROSS-LINKED POLYSTYRENE SULFONATE CATION EXCHANGERS AT 25 C 67-09 M14-76600
EFFECT OF CEMENTATION AND SUBSEQUENT DIFFUSION CHROMIZING ON THE INTERACTION OF IRON AND LIQUID ZINC 67-10 M18-78849
MATHEMATICAL AND EMPIRICAL DETERMINATION OF THE DISTRIBUTION COEFFICIENT OF ZINC IN ALUMINUM 67-12 M14-81783
ANODIC DISSOLUTION OF ZINC IN POTASSIUM NITRATE 67-12 M14-82455

ZINC, RECOVERING
PILOT HYDROMETALLURGICAL TREATMENT TESTS MADE ON A COPPER-ZINC-PYRITE PRODUCT 67-06 M03-71347
INFLUENCE OF SURFACTANTS ON THE RATE OF OXIDE REDUCTION IN SLAG MELTS 67-08 M03-76238

ZINC, REFINING
METHOD OF REFINING METAL AND FUSIBLE ALLOYS, MAINLY ZINC AND ITS ALLOYS 67-02 M03-59562
ELECTROCHEMICAL REFINEMENT OF CRUDE ZINC IN SALT MELTS 67-02 M03-60963
REFINING IRON-CONTAMINATED ZINC BY FILTRATION AND CENTRIFUGATION 67-04 M03-66299
CEMENTATION OF CO FROM ZINC SOLUTIONS 67-05 M03-68957
LABORATORY STUDIES ON THE HYDROMETALLURGICAL TREATMENT OF COPPER-LEAD-ZINC INTERMEDIATE PRODUCTS 67-07 M03-72782
INVESTIGATION OF THE DEEP REFINEMENT OF CADMIUM AND ZINC BY RECTIFICATION AND ZONE MELTING 67-09 M03-76982
ELECTRIC SMELTING OF COMPLEX LEAD-ZINC SINTER 67-10 M03-78636
INVESTIGATION OF THE VACUUM DISTILLATION KINETICS OF MAGNESIUM ALLOYS 67-10 M03-79133

ZINC, ROLLING
COIL ROLLING OF ZINC 67-09 M07-77131

ZINC, SEPARATION
INFLUENCE OF CHLORINE IONS ON ELECTROLYTIC PRECIPITATION OF ZINC DURING ELECTROREFINING OF NICKEL 67-08 M03-75204
EXTRACTION OF LEAD AND ZINC FROM AQUEOUS COBALT SOLUTIONS BY MEANS OF IONITES 67-08 M03-75205
THE BEHAVIOR OF ZINC DURING LAYER SEPARATION OF A GALLIUM AMALGAM 67-09 M03-76583

ZINC, SINGLE CRYSTALS
CLEAVAGE CRACKS INDUCED BY SPARK MACHINING 67-02 M08-61779
THERMALLY ACTIVATED SLIP IN ZN CRYSTALS 67-02 M14-61892
AN ACID SAW FOR THE STRAIN-FREE CUTTING OF SINGLE CRYSTALS 67-06 M13-71013
THE MECHANICAL PROPERTIES OF ZINC SINGLE CRYSTALS AT HIGH STRAIN RATES 67-06 M17-71410
INTERNAL FRICTION OF PURE AL AND ZN SINGLE CRYSTALS DURING TORSION TESTS 67-07 M17-72521
DISLOCATION MULTIPLICATION IN ZINC SINGLE CRYSTALS UNDER THE EFFECT OF ULTRASONICS 67-08 M13-75278
DISLOCATION MOVEMENT IN ZINC SINGLE CRYSTALS AT HIGH TEMPERATURE 67-10 M13-79232
TWINNING IN ZINC BY INDENTATION 67-11 M13-80128
CREEP TESTS ON MELT AND RECRYSTALLIZATION SINGLE CRYSTALS OF ZN 67-11 M17-81028

ZINC, SINGLE CRYSTALS
CONTRIBUTION TO THE STUDY OF ELASTOPLASTIC
CONTRIBUTION TO THE STUDY OF ELASTOPLASTIC BEHAVIOR OF MONOCRYSTALLINES. PT. 1
BEHAVIOR OF MONOCRYSTALLINES. PT. 1 67-12 M17-83577

ZINC, SMELTING
EFFECT OF COMPOSITIONAL VARIATIONS ON THE QUALITY OF ZINC-LEAD SINTER 67-08 M03-76059

ZINC, SOLUBILITY
THE SOLID SOLUBILITY LIMITS OF ZINC IN GAAS AT 1000 C 67-12 M14-82290

ZINC, SUPERCONDUCTIVITY
PRESSURE DEPENDENCE OF THE SUPERCONDUCTING TRANSITION TEMPERATURE IN ZINC 67-02 M16-61120

ZINC, SURFACE FINISHING
A NEW CHEMICAL POLISHANT FOR ZINC 67-02 M13-61297
FINE FINISHING--THE DEVELOPMENT FROM HAND OPERATIONS TO VIBRATORY METHODS 67-10 M12-79191

ZINC, SURFACE PROPERTIES
WEAR MEASUREMENTS ON COATINGS OF METALLIC SURFACES 67-02 M17-60511
DETERMINING THE TRUE SURFACE VALUE OF ZN, CD AND MG VACUUM CONDENSATES IN THE PROCESS OF OXIDATION 67-04 M18-67654
OBSERVATIONS OF THE EFFECT ON SURFACES OF EROSION AND CAVITATION 67-10 M18-78466

ZINC, TERNARY SYSTEMS
NEW PHASES IN THE ZINC-VANADIUM-OXYGEN SYSTEM 67-02 M14-62195
NEW G PHASES 67-05 M13-68485
PLANES AND NONVARIANT EQUILIBRIA IN THE SYSTEM COPPER-CADMIUM-ZINC 67-06 M14-71660
PHASE-RELATIONS IN COPPER-CADMIUM-ZINC-ALLOYS 67-06 M14-71859
ELECTROLYTIC A-C CORROSION OF POLYELECTRODE SYSTEMS 67-08 M18-74623
THE MICROSTRUCTURES OF TERNARY EUTECTIC ALLOYS IN THE SYSTEMS CD-SN---PB, IN, TL--, AL-CU---MG, ZN, AG--, AND ZN-SN-PB 67-09 M13-76678
STUDIES ON PROPERTIES OF SOME TERNARY COPPER ALLOYS OF THE CU-MN-ZN AND CU-MN-NI SYSTEM 67-10 M17-78607
AN X-RAY STUDY ON THE STRUCTURE OF THE TERNARY AU-CU-ZN MARTENSITE 67-11 M13-80810
THE CRYSTAL STRUCTURE OF THE LAVES PHASE IN MG-ZN-AG-SYSTEM. PT. 1 67-12 M13-81768
PREDICTING THE COURSE OF HOMOGENIZATION IN MULTICOMPONENT ALLOYS 67-12 M14-82849
THERMODYNAMIC INTERACTIONS AND LIQUIDUS PHASE BOUNDARIES IN THE LEAD CORNER OF THE PB-ZN-AG AND PB-ZN-AU SYSTEMS 67-12 M15-82754

ZINC, THERMAL PROPERTIES
THE ABSOLUTE THERMOELECTRIC POWER OF LIQUID METALS

67-01 M15-57972
THE BOILING-POINT RELATIONS OF CADMIUM AND ZINC AT ELEVATED PRESSURES 67-03 M15-65208
THERMAL CONDUCTIVITY OF POLYCRYSTALLINE ZINC BELOW 1 K 67-05 M15-68657
INVESTIGATION OF THE HEAT CONDUCTIVITY OF CERTAIN METALS ON TRANSITION FROM THE SOLID TO THE LIQUID STATE 67-05 M15-69394

ZINC, THERMODYNAMICS
THERMODYNAMIC INTERACTION BETWEEN ZINC AND THE DILUTE SOLUTES ANTIMONY, BISMUTH, AND CADMIUM IN SOLUTION IN LIQUID LEAD 67-10 M15-79964

ZINC, THIN FILMS
STABLE BATHS FOR ELECTROPLATING ZINC AND CADMIUM 67-06 M12-71199

ZINC, TRANSPORT PROPERTIES
SELF-TRANSPORT IN POLYCRYSTALLINE ZN AND PB 67-03 M14-65201
DIFFUSION AND ELECTRICAL TRANSPORT OF ZINC IN INDIUM ARSENIDE 67-05 M16-69383
HALL EFFECT IN ZINC WITH SMALL CONTENTS OF IMPURITIES 67-06 M15-70222

ZINC, WEAR
WEAR MECHANISM OF THE SURFACE OF CU-ZN METAL GROUP IN THE PRESENCE OF MERCURY AND ULTRASONIC VIBRATIONS 67-07 M17-73162

ZINC, WELDING
ARGON ARC WELDING OF ZINC 67-09 M11-77615

ZINC BASE ALLOYS
NEW COMPOUNDS OF RARE-EARTH METALS WITH ZINC AND THEIR CRYSTAL STRUCTURE 67-06 M13-70329

ZINC BASE ALLOYS, BLISTERING
STUDIES OF THE BLISTERS ON THE PLATED SURFACE OF ZINC ALLOY DIE CASTINGS 67-08 M18-74923

ZINC BASE ALLOYS, CASTING
MAJOR SEGREGATION OF ZN-AL ALLOYS 67-01 M06-58626
INFLUENCE OF ALLOYING ELEMENTS ON CASTING FLUIDITY OF LEAD AND ZINC 67-02 M06-58931
FILLING OF THIN SECTIONS CAST IN METAL DIES 67-02 M06-60525
DIE CASTING OF METALS, INJECTION MOLDING OF ORGANIC MATERIALS 67-02 M06-60611
UNIT FORMS FOR ZINC DIE CASTING 67-03 M06-65192
ZINC ALLOYS FOR DIECASTING 67-03 M06-65683
MELTING AND HANDLING ZINC AND ALUMINUM ALLOYS IN JAPANESE DIE-CASTING PLANTS 67-04 M06-66282
CASTING ELECTRICAL STEEL AND RESULTING EFFECT ON ITS MAGNETIC PROPERTIES 67-04 M06-66336
GATING IN DIE CASTING 67-04 M06-66637
THERMAL MOLD PROBLEMS IN DIE CASTING 67-06 M06-71092
NON-FERROUS METALS RESEARCH 67-07 M01-74165
METAL PIPE FOR MOLTEN ALLOYS 67-07 M18-74040
LEAD AND ZINC--PARTNERS IN PROGRESS 67-07 M20-74293
ZINC ALLOY INGOTS MELTED IN VACUUM AND CAST UNDER PRESSURE 67-08 M06-74676
ZINC DIE CASTING IN THE MARINE FIELD 67-09 M06-76403
DIE CAST PLUMB BOBS ARE ACCURATE AND GOOD LOOKING 67-09 M06-78171
ZINC AND ALUMINUM DIE CASTING AT GMS NEW ROCHESTER PRODUCTS DIVISION PLANT 67-10 M06-78701
MANUFACTURE OF COMPLICATED PARTS FROM A ZINC ALLOY BY THE PRESSURE CASTING METHOD 67-12 M06-81753
PRESSURE CASTING WITH CORED INSERTS--SEVERAL EXAMPLES FROM PRACTICE 67-12 M06-81754
MACHINES FOR PRESSURE DIE CASTING SMALL PIECES 67-12 M06-81981
INLET AND GATING CALCULATIONS FOR PRESSURE-CASTING DIES 67-12 M06-82920
ANNUAL DIE CASTING REVIEW. PT. 1. PROPERTIES AND MATERIALS 67-12 M06-82940
DIE CASTINGS SOLVE PRODUCT DESIGN PROBLEMS 67-12 M20-82709

ZINC BASE ALLOYS, CHEMICAL ANALYSIS
THE POLAROGRAPHIC DETERMINATION OF ALUMINUM IN ZINC-BASE ALLOYS AND IN THE ZINC LAYER OF GALVANIZED SHEETS 67-01 M19-57912

ZINC BASE ALLOYS, COATING
ELECTROLESS NICKEL PLATING OF ZINC ALLOYS 67-05 M12-69831
CHROME-PLATED DIE CAST ZN PARTS IN THE AMERICAN AUTOMOTIVE INDUSTRY 67-06 M12-70039
A MORE UNIFORM, MORE ADHERENT PLATE ON ZINC 67-09 M12-78173
CHROME-PLATED ZN DIE CASTINGS FOR THE U. S. AUTOMOTIVE INDUSTRY 67-10 M12-79885
DUPLEX NICKEL PLATING SYSTEM WITH IMPROVED LEVELLING PROPERTIES 67-12 M12-81955
CHEMICAL NICKEL PLATING OF ZINC ALLOYS 67-12 M12-82265

ZINC BASE ALLOYS, CORES
METAL MELT-OUT CORES IN DIE CASTING 67-01 M06-57320

ZINC BASE ALLOYS, CORROSION
QUICKER SINGLE-LAYER MICROCRACKED CHROMIUM 67-01 M12-57213
DEZINCIFICATION OF BRASS 67-02 M18-59987
THE EFFECT OF 1 PER CENT COPPER ADDITION ON THE ATMOSPHERIC CORROSION OF ROLLED ZINC 67-11 M18-80681

ZINC BASE ALLOYS, CRYSTAL GROWTH
GROWTH OF ZNSE SINGLE CRYSTAL BY THE CHEMICAL TRANSPORT REACTION 67-01 M14-58328

ZINC BASE ALLOYS, DIFFUSION
VOLUME AND GRAIN BOUNDARY DIFFUSION OF SN AND ZN IN HETEROGENEOUS SN-ZN ALLOYS 67-03 M14-65369
DETERMINATION OF THE TRUE DIFFUSION COEFFICIENTS AND OF THE THERMODYNAMIC ACTIVITY BY INTERNAL FRICTION METHOD 67-06 M14-70339

ZINC BASE ALLOYS, ELECTRICAL PROPERTIES
RESISTIVITY AND TUNNELLING PROPERTIES OF PARAMAGNETIC ALLOY FILMS 67-03 M15-65108
THE EFFECT OF TRANSITION METAL IMPURITIES ON THE RESIDUAL RESISTIVITY OF AL, ZN, IN AND SN 67-03 M15-65687
THERMOELECTROMOTIVE FORCE OF ZINC-BISMUTH ALLOYS 67-11 M15-80738

ZINC BASE ALLOYS, ELECTROLYSIS
ANODIC DISSOLUTION OF ZN-CU AND ZN-FE ALLOYS IN KCL AND NACL MELTS 67-03 M03-65579

ZINC BASE ALLOYS, INCLUSIONS
FE-AL INCLUSIONS IN ZINC ALLOY PRESSURE CASTINGS 67-05 M13-69109

ZINC BASE ALLOYS, MECHANICAL PROPERTIES
CREEP DEFORMATION OF ROLLED ZN-TI ALLOYS 67-02 M17-59427
GRAIN BOUNDARY EFFECTS IN OXIDE DISPERSION-STRENGTHENED ZINC 67-04 M17-66922
FORMING ZN-CU-TI ALLOYS 67-04 M17-67140
CONTRIBUTION TO THE STUDY OF THE PLASTICITY OF ZINC 67-05 M17-68541
EFFECTS OF HYDROGEN ON THE STRUCTURE AND PROPERTIES OF ZINC ALLOYS 67-06 M17-71111
THE PART PLAYED BY VANADIUM IN ZINC-COPPER ALLOYS 67-06 M17-71120
NEW ZINC ALLOY FOR PROTOTYPES 67-07 M17-73960
A NEW CREEP RESISTANT ZINC DIE CASTING ALLOY 67-08 M17-75494
MECHANICAL CHARACTERISTICS OF ZN ALLOYS USED IN PRESSURE CASTING 67-09 M17-77395
DUCTILE ZINC-COPPER-TITANIUM ALLOYS. PT. 2 67-10 M17-79652
THE PROPERTIES OF SOME SUBSTITUTE BEARING ALLOYS 67-12 M01-82890
DEFORMATION MECHANISMS IN HEXAGONAL METALS WITH A C..A RATIO ABOVE 1.633 67-12 M17-83499

ZINC BASE ALLOYS, MELTING
PREPARATION OF ZINC ALLOYS WITH CADIUM FROM SCRAP OF REFINED CADMIUM 67-01 M03-58154

ZINC BASE ALLOYS, MICROSTRUCTURE
PRINCIPLES OF METALLOGRAPHIC ETCHING 67-04 M13-66693
PRECIPITATES IN CU-NI-ZN-SI ALLOYS 67-05 M14-68582
THE MORPHOLOGY OF SOME BINARY EUTECTIC ALLOYS 67-08 M14-74519

ZINC BASE ALLOYS, PHASE TRANSFORMATIONS
INVESTIGATION OF THE DECOMPOSITION OF A ZINC-SUPERSATURATED BETA PHASE IN THE COPPER-ZINC SYSTEM 67-05 M14-69275
THE PRESENCE OF ALPHA-II PHASE IN AN ALZN60CU2 ALLOY 67-09 M14-76946

ZINC BASE ALLOYS, PHASES /STATE OF MATTER/
VACANCY-DEFECTIVE INTERMEDIATE PHASES 67-06 M14-70415
MAGNETIC PROPERTIES OF ZINC-RICH ZINC-MANGANESE ALLOYS IN THE LIQUID AND SOLID STATE 67-06 M15-71662
TEMPERATURE AFTER-EFFECTS IN TWO-PHASE ALLOYS 67-08 M15-75279

ZINC BASE ALLOYS, PHYSICAL PROPERTIES
DILATOMETRIC INVESTIGATIONS OF BINARY ALLOYS IN THE

AL-ZN SYSTEMS 67-05 M15-69054
INTERNAL FRICTION AND CREEP OF AN ALUMINUM-ZINC EUTECTOID ALLOY 67-06 M17-71132
ELECTRICAL RESISTANCE AND ELECTRICAL TRANSPORT IN THE BI-ZN SYSTEM AT 700 C 67-08 M15-74644
ASARCO Z. D. C. NO. 7. --ZINC DIE CASTING ALLOY-- 67-09 M01-76525
EFFECT OF PLASTIC DEFORMATION ON THE ABSOLUTE THERMOPOWER OF ALPHA-BRASS 67-11 M15-80633

ZINC BASE ALLOYS, PLATING
COPPER PYROPHOSPHATE BATHS 67-01 M12-58121

ZINC BASE ALLOYS, PRECIPITATION
PRECIPITATION PHENOMENA IN BINARY ZINC ALLOYS 67-09 M14-78286

ZINC BASE ALLOYS, REFINING
METHOD OF REFINING METAL AND FUSIBLE ALLOYS, MAINLY ZINC AND ITS ALLOYS 67-02 M03-59562

ZINC BASE ALLOYS, SACRIFICIAL ANODES
ZINC ANODES FOR CORROSION PROTECTION OF DOMESTIC HOT WATER STORAGE TANKS 67-09 M18-77667

ZINC BASE ALLOYS, SOLDERS
PROPERTIES OF CADMIUM-ZINC HIGH STRENGTH SOLDER ALLOY 67-06 M12-72150

ZINC BASE ALLOYS, SOLUBILITY
HYDROGEN IN CASTING ALLOYS OF ZINC WITH ALUMINUM AND COPPER 67-10 M14-79655

ZINC BASE ALLOYS, SURFACE FINISHING
POLISHING--MANUAL AND MECHANICAL 67-01 M12-57559
THE BUFFING OF ZINC DIE CASTINGS WITH LIQUID COMPOUND 67-04 M12-68112
SATIN FINISHES FOR DIE CASTINGS NOW STANDARDIZED 67-04 M12-68134
RESEARCHES ON BARREL FINISHING 67-12 M12-83598

ZINC BASE ALLOYS, THERMAL PROPERTIES
THERMODYNAMIC PROPERTIES OF LIQUID ALLOYS OF THE ZINC-ANTIMONY SYSTEM 67-02 M15-61543
THERMODYNAMIC PROPERTIES OF LIQUID SOLUTIONS OF METALS. PT. 13. THE SYSTEM ZN-ID-CD AND IN-CD 67-11 M15-81638

ZINC BASE ALLOYS, THIN FILMS
ELECTRODEPOSITION OF METALS IN ULTRASONIC FIELDS 67-04 M12-66279

ZINC BASE ALLOYS, TRANSPORT PROPERTIES
HALL EFFECT IN ZINC WITH SMALL CONTENTS OF IMPURITIES 67-06 M15-70222
ORDINARY TRANSPORT PROPERTIES OF THE GAMMA PHASE ALLOYS 67-07 M15-72405

ZINC BASE ALLOYS, VAPORIZING
STUDY OF ALLOY EVAPORATION 67-02 M15-59931
EVAPORATION MECHANISMS OF ALLOYS 67-07 M15-72586

ZINC COATINGS
SEE METAL COATINGS ZINC

ZINC COMPOUNDS, ACOUSTIC PROPERTIES
FIELD DEPENDENCE OF ULTRASONIC ATTENUATION IN SEMICONDUCTING ZNO 67-06 M16-70085

ZINC COMPOUNDS, BAND THEORY
BAND STRUCTURE OF CUBIC ZNS --KORRINGA-KOHN-ROSTOKER METHOD-- 67-06 M16-72096

ZINC COMPOUNDS, BENEFICIATION
DEVELOPMENT AND DESIGN OF THE MISSION UNIT BY-PRODUCTS PLANT 67-01 M02-58695
CHLORINATING ZINC AND COPPER SILICATES AND FERRITES 67-02 M02-60536

ZINC COMPOUNDS, BINARY SYSTEMS
PERMITTIVITY OF SOLID SOLUTIONS IN THE SYSTEM ZNXHG1-XTE 67-07 M16-73998
THE PHYSICAL AND ELECTRONIC PROPERTIES OF SEMICONDUCTING SOLID SOLUTIONS OF THE CD3AS2-ZN3AS2 SYSTEM 67-09 M15-78254
VAPOR PRESSURE OF METAL HALIDES. THE SNCL2-ZNCL2 BINARY SYSTEM 67-11 M15-80761

ZINC COMPOUNDS, COATING
ENCAPSULATION OF SAMPLES FOR HIGH TEMPERATURE POWDER X-RAY DIFFRACTOMETRY 67-07 M13-73139

ZINC COMPOUNDS, COATINGS
SURFACE TREATING BEFORE PAINTING--IRON AND ZINC PHOSPHATIZING 67-02 M12-58978
FORMATION AND GROWTH OF ZINC PHOSPHATE COATINGS 67-04 M12-67070
ZNO AS A MILL ALLOY IN GLAZES 67-08 M12-74561
ZINC SILICATE COATINGS FOR STEEL 67-08 M12-74615
EPITAXIAL GROWTH OF ZNTE ON ZNSE BY VAPOR TRANSPORT 67-12 M14-82675

ZINC COMPOUNDS, CORROSION
NEW DEVELOPMENTS IN CORROSION PROTECTION AT CHEMICAL PLANTS BY METAL SPRAYING --METALLIZATION-- 67-07 M12-73725

ZINC COMPOUNDS, CRYSTAL GROWTH
EPITAXIAL FILMS OF ZNTE ON IONIC SUBSTRATES 67-02 M14-59013
ON THE EPITAXIAL PRECIPITATION OF ZINC SULFIDE AND LEAD SULFIDE ON ZINC SULFIDE BY A CHEMICAL TRANSPORT REACTION AND BY SUBLIMATION 67-02 M14-60114
SOLUBILITY OF ZNSE AND ZNTE IN GA AND IN 67-03 M16-65388
GROWTH OF ZNO SINGLE CRYSTALS 67-07 M14-72649
IMPROVED METHOD FOR GROWING 2-6 CRYSTALS FROM THE VAPOR PHASE 67-08 M14-75997
CRYSTAL GROWTH AND DEFECT STRUCTURE OF ZINC SULFIDE AND ZINC SELENIDE PLATELETS 67-11 M14-81094

ZINC COMPOUNDS, CRYSTAL LATTICES
THE ELECTRONIC STRUCTURE OF HEXAGONAL ZINC SULFIDE 67-01 M16-57954
INFRARED ABSORPTION OF LOCALIZED VIBRATION DUE TO LITHIUM IN ZINC SELENIDE AND CADMIUM SULFIDE 67-04 M16-66745
WURTZITE AND ZINC BLENDE TYPE STRUCTURES 67-07 M13-73671
POINT DEFECTS IN BINARY COMPOUNDS 67-07 M13-74099
ON THE MORPHOLOGY AND POLARITY OF THE ZNO CRYSTAL 67-07 M14-73323
THE CRYSTAL STRUCTURE OF PU2ZN9 67-10 M13-78561
VARIATION OF THE MEAN-SQUARE DYNAMIC DISPLACEMENTS OF ZINC AND CADMIUM TELLURIDES AS A FUNCTION OF THE TEMPERATURE 67-11 M14-80166

ZINC COMPOUNDS, DIFFUSION
DIFFUSION OF THE CHALCOGENS IN THE 2-6 COMPOUNDS 67-09 M14-77174

ZINC COMPOUNDS, ELASTIC CONSTANTS
ELASTIC CONSTANTS OF HEXAGONAL BEO, ZNS AND CDSE 67-08 M17-75130

ZINC COMPOUNDS, ELECTRICAL PROPERTIES
PIEZOELECTRIC, ELASTIC, AND DIELECTRIC CONSTANTS OF HEXAGONAL ZINC SULFIDE 67-02 M15-61657
ELECTRICAL PROPERTIES OF SOME LIQUID SEMICONDUCTORS 67-02 M16-60810
MEASUREMENTS OF THE DECAY OF LUMINESCENCE OF ELECTROLUMINESCENT ZNS PHOSPHORS WITH DIFFERENT EXCITATION 67-03 M16-65440
PHOTOCONDUCTIVITY DECAY OF ZNO CRYSTALS IN OXYGEN 67-03 M16-65749
PHOTOVOLTAIC EFFECTS OBSERVED WITH THIN FILMS OF ZINC SULPHIDE 67-07 M15-73633
PHOTOCONDUCTIVE EFFECT OF ZNO-CU CRYSTALS 67-07 M16-73324
CONDUCTIVITY RANGE AND ABSORPTION EDGE OF ZINC SELENO-TELLURIDES 67-10 M15-79120

ZINC COMPOUNDS, FERRITES
RELATIONSHIP OF MAGNETIZATION SATURATION AND ELECTRICAL RESISTANCE OF A NI-ZN-CO FERRITE WITH AN INDUCED RIGHT-ANGLED HYSTERESIS LOOP TO PHASE COMPOSITION 67-04 M15-66496

ZINC COMPOUNDS, MAGNETIC PROPERTIES
MAGNETIC PROPERTIES OF ZNMN2S4, ZNMN2SE4 AND ZNMN2TE4 67-03 M15-65648
MAGNETIC SUSCEPTIBILITY OF GROUP 2, GROUP 4 SEMICONDUCTOR ZNO 67-03 M15-65919
TEMPERATURE DEPENDENCE OF THE INITIAL COMPLEX PERMEABILITY OF CO0.6ZN0.4FE2O4 FERRITES OVER A WIDE RANGE OF FREQUENCIES 67-05 M15-69387
PARAMAGNETIC SUSCEPTIBILITY OF MN-ZN FERRITES NEAR THE CURIE TEMPERATURE 67-05 M15-69396
MAGNETORESISTANCE OF MN-ZN FERRITES IN THE CURIE TEMPERATURE DOMAIN 67-08 M15-74778
MAGNETIC SUSCEPTIBILITIES OF SOME RARE-EARTH-ZINC --RZN2-- INTERMETALLIC COMPOUNDS 67-12 M15-82360

ZINC COMPOUNDS, MECHANICAL PROPERTIES
ACOUSTICS AND THIN FILMS 67-08 M17-74722
THE VOIGT-REUSS-HILL APPROXIMATION AND ELASTIC MODULI OF POLYCRYSTALLINE MGO, CAF2, BETA-ZNS, ZNSE, AND CDTE 67-10 M17-79160

ZINC COMPOUNDS, METALLOGRAPHY
SOME INNOVATIONS AND OBSERVATIONS ON HIGH PRESSURE DIFFRACTOMETRY 67-01 M13-58762
SOME CRYSTALLOGRAPHICAL APPLICATIONS OF THE GONIOMICROSCOPE 67-02 M13-60264

ZINC COMPOUNDS, MICROSTRUCTURE
HETEROGENEITY OF ZINC OXIDE DOPED WITH GALLIUM 67-02 M14-62298

ZINC COMPOUNDS, OPTICAL PROPERTIES

ZINC COMPOUNDS

ANOMALOUS POLARITY-DEPENDENT ELECTRO-OPTIC EFFECT IN CUBIC ZNS AND ZNTE 67-02 M15-60686
OPTICAL PROPERTIES AND ENERGY BAND STRUCTURE OF ZNS-CDS SINGLE CRYSTALS 67-04 M16-66748
OPTICAL PROPERTIES OF ZINC TELLURIDE 67-08 M15-74668
INFRARED LATTICE REFLECTION SPECTRA OF 2-6 COMPOUNDS 67-08 M15-75937
OPTICAL PROPERTIES OF ZINC TELLURIDE IN THE INFRARED 67-08 M15-76168
ANISOTROPY IN LATTICE VIBRATIONS OF ZINC OXIDE 67-09 M15-77458

ZINC COMPOUNDS, PHASE TRANSFORMATIONS
THE PHASE CHANGE OF ZINC SULPHIDE AND THE STACKING SEQUENCE OF A NEW 66R POLYTYPE 67-01 M14-57479

ZINC COMPOUNDS, PHYSICAL PROPERTIES
THE PREPARATION AND PROPERTIES OF ZNSIAS2, ZNGEP2 AND CDGEP2 SEMICONDUCTING COMPOUNDS 67-02 M16-59744
VERY HIGHLY REFLECTIVE DIELECTRIC MIRROR COATINGS WITH ZINC SELENIDE 67-06 M16-69962
REFLECTANCE AND SURFACE CONDUCTIVITY OF ZINC OXIDE CRYSTALS 67-06 M16-70087
DETERMINATION OF THE REDUCED EFFECTIVE MASS IN ZINC SELENIDE 67-11 M16-81689

ZINC COMPOUNDS, REACTIONS /CHEMICAL/
STUDY OF THE REACTION OF ZINC SULFIDE WITH SULFURIC ACID 67-02 M02-59845
SPECIAL KINETIC FEATURES OF ZINC SULFIDE OXIDATION 67-02 M14-60089
REDUCTION OF ZINC OXIDE BY CARBON MONOXIDE IN THE PRESENCE OF STRONTIUM OXIDE 67-06 M03-69942
THE DISSOLUTION MECHANISM OF ZINC-FERRITE. PT. 4. STUDY ON ZINC-FERRITE 67-06 M14-71735
THE PROMOTION OF ACID DISSOLUTION OF ZINC-FERRITE. PT. 5. STUDY ON ZINC-FERRITE 67-06 M14-71736
RADIOACTIVE ISOTOPE INVESTIGATION OF THE REDUCTION KINETICS OF SOME CHEMICAL COMPOUNDS OF ZN IN TUBULAR FURNACES 67-07 M03-73040
A KINETIC ANALYSIS OF ZNS IN RELATION TO VISCOSE SPINNING 67-07 M14-73832
DECOMPOSITION OF COPPER, ZINC AND IRON FERRITES DURING THEIR REACTION WITH MATTE 67-10 M14-80046

ZINC COMPOUNDS, REFINING
ON THE INTERRELATIONSHIP OF SEMICONDUCTOR PROPERTIES OF ZINC BLENDE WITH ITS FLOTATION BEHAVIOR 67-05 M16-68954
THE ELECTRICAL RESISTIVITY OF PB AND ZN COMPOUNDS. A CONTRIBUTION TO THE PROBLEM OF ELECTRIC GAS PURIFICATION 67-08 M03-74445
REDUCTION KINETICS OF ZINC OXIDE WHEN REDUCED WITH CARBON OXIDE 67-09 M03-77112
A COMPUTER MODEL OF THE SLAG-FUMING PROCESS FOR RECOVERY OF ZINC OXIDE 67-12 M03-82765

ZINC COMPOUNDS, SEMICONDUCTORS
EFFECTS OF IMPURITY-VACANCY COMPLEX ON THE DEGREE OF COMPENSATION IN COMPOUND SEMICONDUCTORS 67-02 M16-59058
THE CRYSTALLINE STRUCTURE OF ZNTE THIN FILMS 67-03 M13-65223
THE PREPARATION AND PROPERTIES OF ZNSIAS2, ZNGEP2 AND CDGEP2 SEMICONDUCTING COMPOUNDS 67-03 M16-65394
HEATS OF ADSORPTION OF CARBON DIOXIDE ON DOPED ZINC OXIDE 67-05 M15-69598
TRANSIENT CURRENT DECAY IN SEMICONDUCTING ZNO DUE TO THE ACOUSTO-ELECTRIC EFFECT 67-05 M16-69099
EXTERNAL PHOTOEFFECT FROM SENSITIZING DYES ADSORBED ON SEMICONDUCTORS 67-08 M16-75236
THE THERMOELECTRIC EFFICIENCY OF CDSB AND SOLID SOLUTIONS OF ZNXCB1-XSB WITH HOLE CONDUCTIVITY 67-10 M15-79107

ZINC COMPOUNDS, SINGLE CRYSTALS
PREPARATION OF ZNSEXTE1-X CRYSTALS BY VAPOR TRANSPORT 67-12 M14-82676

ZINC COMPOUNDS, SURFACE FINISHING
CHEMICAL POLISHING METHODS FOR ZNTE 67-10 M12-79972

ZINC COMPOUNDS, THERMAL PROPERTIES
MEASUREMENT OF THE LINEAR EXPANSION COEFFICIENTS OF HEXAGONAL ZINC SULFIDE IN THE TEMPERATURE RANGE 78-290 K 67-05 M16-69400

ZINC COMPOUNDS, THERMODYNAMICS
THERMODYNAMICS AND KINETICS OF THE SUBLIMATION OF ZINC SULFIDE WITH A CARBON REDUCER 67-01 M03-57303

ZINC COMPOUNDS, THIN FILMS
PHOTOCONDUCTIVITY OF ZNSE THIN FILMS 67-12 M15-82017

ZINC COMPOUNDS, TRANSPORT PROPERTIES
INVESTIGATION OF SOME ELECTRICAL PROPERTIES AND PREPARATION OF ZINC ARSENIDE SINGLE CRYSTALS 67-01 M15-58040
PHYSICAL AND ELECTRONIC PROPERTIES OF CD3AS2-ZNSNAS2 ALLOYS 67-04 M15-67578
ON THE ELECTRICAL PROPERTIES OF THE ZNGEAS2 SEMICONDUCTOR COMPOUND 67-04 M16-67107
THE EFFECT OF VARIATIONS IN THE CONCENTRATION OF ATMOSPHERIC CONSTITUENTS ON THE ELECTRICAL CONDUCTIVITY OF ZINC OXIDE 67-05 M15-68276
SURFACE PROPERTIES OF 2-6 COMPOUNDS 67-05 M15-69818
THERMOMAGNETIC EFFECTS IN THE SEMICONDUCTING INTERMETALLIDES, ZN4SB3 AND ZN3SB2, AND THE CHARACTER OF THE CHEMICAL BOND 67-11 M15-80172

ZINC DUST
SEE DUST
ZINC

ZINC ORES
SEE ALSO SPHALERITE

ZINC ORES, BENEFICIATION
CYANIDE-FREE FLOTATION OF COPPER-ZINC ORES 67-01 M02-57267
DEVELOPMENT AND DESIGN OF THE MISSION UNIT BY-PRODUCTS PLANT 67-01 M02-58695
BACTERIAL METHOD OF INTENSIFYING UNDERGROUND LEACHING OF SULFIDE ORES 67-01 M03-58067
COMPUTER CONTROL IMPROVES METALLURGY AT TENNESSEE COPPERS FLOTATION PLANT 67-02 M02-59496
LABORATORY TESTS OF WOOD RESIN OIL USED FOR FLOTATION OF OXIDE AND MIXED LEAD-ZINC ORES AND MINERALS OF ENVELOPING ROCKS 67-02 M02-59639
STUDY OF AUTOCLAVE LEACHING OF SULFIDE MINERALS 67-02 M02-59852
METHODS OF IMPROVING FLOTATION TECHNIQUES OF FINELY IMPREGNATED COPPER-ZINC ORES 67-02 M02-59854
DEPRESSION OF SULFIDIC MINERALS BY PRODUCTS OF THE INTERACTION OF ZNSO4 AND NA2CO3 67-02 M02-61540
TESTING A METHOD OF GRANULATING SULFIDIC CHARGES WITH LIMESTONE AND SULFURIC ACID 67-02 M02-61610
METHODS OF INCREASING THE DEGREE OF DISTILLATION OF ZINC BY OXYGEN SUSPENSION MELTING OF COPPER-ZINC CONCENTRATES 67-02 M03-60081
LEACHING ROASTED ZN-CU-PB CONCENTRATES WITH SULFURIC ACID UNDER PRESSURE 67-04 M02-67857
POSSIBILITY OF PROCESSING CRUDE POLYMETALS BY THE SULFURIC ACID PROCESS 67-05 M02-69301
USE OF ZINCATES FOR THE FLOTATION OF POLYMETALLIC ORES 67-05 M02-69309
THE BEHAVIOR OF VERY FINE-GRAINED, COMPLEX SULFIDE ORES DURING FLOTATION 67-05 M03-69118
BENEFICIATION OF OSOGOVO DEPOSIT ORES 67-09 M02-76877
HOW SIZE OF MINERALS AFFECTS THEIR FLOTABILITY 67-09 M02-76895
DRESSABILITY OF POLYMETALLIC ORES FROM THE SEVERNI RODOPI DEPOSITS, SMOLYANSK REGION 67-09 M02-77750
SYSTEMS FOR ENRICHING POLYMETALLIC ORES WITH HIGH PYRITES CONTENTS 67-09 M02-77762
IMPROVING THE AGGLOMERATION OF ZINC CHARGE THAT CONTAINS ZINC CAKES 67-10 M02-79035
ADVANCES IN CONCENTRATION TECHNIQUES OF LEAD-ZINC ORES 67-10 M02-79862
ELIMINATION OF LEAD AND CADMIUM BY THE FLUID COLUMN PROCESS AT SHERBROOKE METALLURGICAL CO 67-11 M02-81148
INFLUENCE OF OXIDATION ON THE FLOTATION OF COMPLEX CU-ZN IRON SULPHIDE ORES 67-12 M02-81732
NEW ECONOMIC CONSIDERATIONS APPLYING TO BENEFICIATION FLOTATION OF ORES 67-12 M02-82609
HEAT TRANSFER IN SINTER ROASTING 67-12 M02-83080
ROLE OF REDOX REACTIONS DURING THE FLOTATION OF SULFIDE MINERALS 67-12 M02-83366
METHOD OF SEPARATING LEAD-ZINC-PYRITE BULK CONCENTRATES 67-12 M02-83443

ZINC ORES, CHEMICAL ANALYSIS
PHASE ANALYSIS BY CHEMICAL METHODS IN ORES AND MINE PRODUCTS 67-05 M19-69120
APPLICATION OF THE ELECTRON BEAM MICROPROBE TO THE

PROBLEM OF METAL EXTRACTION 67-12 M19-81960

ZINC ORES, MELTING
INCREASING THE LIFE OF REFRACTORIES IN ROTARY TUBULAR FURNACES 67-08 M05-76237

ZINC ORES, PELLETING
GRANULATION OF FINE-GRAINED MATERIALS BY VIBRATION 67-06 M02-72102

ZINC ORES, REACTIONS /CHEMICAL/
ON THE MECHANISM AND KINETICS OF REDUCTION OF A MIXTURE OF IRON AND ZINC OXIDES BY CARBON MONOXIDE 67-10 M04-79830

ZINC ORES, REDUCTION /CHEMICAL/
ON THE BEHAVIOR OF COMPONENTS OF OXIDIZED LEAD-ZINC ORE DURING REDUCTION WITH CARBON 67-08 M03-74893

ZINC ORES, REFINING
FLUIDIZED BED ROASTING OF ZINC CONCENTRATES AT HIGH CONCENTRATION OF SO2 67-06 M03-71303

ZINC ORES, ROASTING
DRYING ZINC CAKES FROM PULP IN A FLUIDIZED BED WITH SIMULTANEOUS GRANULATION OF THE PRODUCT 67-06 M02-71348

ZINC ORES, X RAY ANALYSIS
X-RAY ANALYSIS FOR ORES AND INTERMEDIATE PRODUCTS OF NONFERROUS METALLURGY 67-10 M19-78563

ZINC PLATING
HOW ZINC CONTROLS CORROSION 67-01 M18-57981
PROBLEMS IN FINISHING ALUMINUM CASTINGS 67-02 M12-60681
ELECTROLYTES FOR PLATING WITH CU-NI AND QUALITY OF THE ELECTROPLATES 67-04 M12-67287
CORROSION BEHAVIOR OF ELECTROPLATES. PT. 2. CORROSION CURRENTS IN ZINC-STEEL AND CADMIUM-STEEL COUPLES AND DECAY CHARACTERISTICS OF STEEL 67-04 M18-66286
ZINC PAINTS YIELD OPTIMUM CORROSION RESISTANCE 67-04 M18-66333
COMBATTING HYDROGEN EMBRITTLEMENT IN STEELS. IMPROVED ELECTROPLATING METHODS AND THEIR USE 67-05 M12-68488
ALTERNATIVES TO CADMIUM PLATE 67-05 M12-68828
DEVELOPMENTS IN PLATING PLASTICS 67-06 M12-71235
SENDZIMIR-GALVANIZED WIDE STRIP--APPLICATIONS AND PROCESSING 67-06 M12-71565
THE TECHNOLOGY OF HOT GALVANIZING 67-07 M12-73231
USE OF DIFFUSION ZINC PLATING IN TUBE INDUSTRY 67-07 M12-74187
SOME PROMISING PROCESSES TO PROTECT SINTERED IRON AND STEEL AGAINST CORROSION 67-07 M18-73230
PROGRESS WITH ZINC-COATED STEEL 67-08 M12-74950
PROGRESS WITH ZINC-COATED STEEL 67-09 M12-76632
THE APCF PROCESS FOR ZINC ANODIZING 67-09 M12-77662
SOME REGULARITIES IN ELECTRODEPOSITION OF ZINC COATINGS FROM POLYETHYLENE POLYAMINE ELECTROLYTES 67-10 M12-78533
NEW AUTOMATIC PLATING PLANT AT METAL COLOURS LTD., SLOUGH 67-11 M12-80416
THE INTENSITY OF THE REMOTE PROTECTION EFFECT OF ZN ON STEEL IN AIR 67-11 M18-81029
USE OF SHEET PRETREATED BY ZINC COATING IN THE FABRICATION OF CABINETS FOR ELECTRICAL APPARATUS 67-11 M18-81236
ZINC ELECTROPLATING 67-12 M12-82505
SENDZIMIR-GALVANIZED SHEET. USE AND APPLICATIONS 67-12 M12-83131

ZINC PLATING, AUTOMATION
HIGH-SPEED BARREL ZINC PLATING 67-08 M12-76046
AUTOMATIC BULK-PLATING OF SMALL PARTS BY THE BARREL METHOD 67-10 M12-79678

ZINCATE PROCESS
ELECTROPLATING ALUMINUM--A CONTROLLABLE PROCESS 67-05 M12-68491
PLATING PROGRESS 67-09 M12-76425

ZIRCON, BENEFICIATION
PILOT PLANT PRODUCTION OF NUCLEAR GRADE ZIRCONIUM SPONGE FROM INDIAN ZIRCON 67-01 M03-57490
HIGH-SPEED ELECTROSEPARATION OF FINE-GRAINED MATERIALS 67-07 M02-72778
SELECTIVE DESORPTION OF SODIUM OLEATE FROM PYROCHLORE, ZIRCON, AND MONAZITE BY SODIUM SULFIDE 67-08 M02-75171
REACTION OF SODIUM SULFIDE WITH PYROCHLORE, ZIRCON, AND MONAZITE IN FLOTATION WITH SODIUM OLEATE 67-08 M02-75173
THE ROLE OF HIGH TENSION SEPARATION IN THE BENEFICIATION OF BEACH SAND MINERALS 67-10 M02-78610
RESULTS OF THE INDUSTRIAL TESTING OF WASTE ACIDS FOR FLOTATION OF TITANIUM-ZIRCONIUM SANDS 67-10 M02-79032
MAGNETIC BENEFICIATION OF PYROCHLORE-ZIRCONIUM FLOTATION CONCENTRATES 67-11 M02-81229
EFFECT OF THE ORDER OF ADDING REAGENTS ON THE FLOTATION PROPERTIES OF CERTAIN MINERALS 67-11 M02-81507

ZIRCON, BRAZING
BRAZING MOLYBDENUM AND ZIRCON SENSOR COMPONENTS 67-03 M11-65979

ZIRCON, ELECTRICAL PROPERTIES
MODIFICATIONS OF THE STRUCTURE OF PURE OR ALLOYED ZIRCON OBTAINED BY PASSAGE OF A CONTINUOUS ELECTRIC CURRENT AT HIGH TEMPERATURES 67-04 M15-66665
ELECTRIC INSULATION PROPERTIES OF FLAME-SPRAYED REFRACTORY COATINGS 67-10 M15-79581

ZIRCON, LINERS
THE USE OF ZIRCON BRICK IN STEELPLANT LADLES 67-06 M04-72285

ZIRCON, NOZZLES
PRODUCTION OF ZIRCONIA NOZZLES FOR CONTINUOUS CASTING OF STEEL 67-03 M05-65302

ZIRCON, REDUCTION /CHEMICAL/
NEW METHOD OF MANUFACTURING LOW-SILICON ZIRCONIUM ALLOYS 67-09 M03-76823

ZIRCON, THERMAL PROPERTIES
METHODS FOR IMPROVING THERMAL STABILITY OF HOT PRESSED ZIRCONIA 67-04 M09-66586

ZIRCON, VAPORIZING
EVAPORATION OF POROUS OXIDE CERAMIC AT HIGH TEMPERATURES 67-03 M05-65304

ZIRCONATES, BENEFICIATION
SEPARATING A BULK TITANIUM-ZIRCONIUM CONCENTRATE BY FLOTATION 67-09 M02-76863
REACTION PATTERNS BETWEEN SODIUM FLUORIDE AND OLEIC ACID IN THE SEPARATION OF TITANIUM AND ZIRCONIUM MINERALS BY FLOTATION 67-09 M02-76874

ZIRCONATES, ELECTRICAL PROPERTIES
ELECTRIC CONDUCTIVITY AND DIELECTRIC ABSORPTION PHENOMENA IN LEAD ZIRCONATE CERAMICS 67-11 M15-80618

ZIRCONATES, POWDER METALLURGY
THE EFFECTS OF SOME VARIATIONS IN FABRICATION PROCEDURE ON THE PROPERTIES OF LEAD ZIRCONATE-TITANATE CERAMICS MADE FROM SPRAY-DRIED, CO-PRECIPITATED POWDERS 67-09 M09-76747

ZIRCONIUM
ZR, HF, TI NEWSLETTER 67-04 M01-66684

ZIRCONIUM, ALLOYING ADDITIVE
TREATING NICKEL MELTS WITH ADDITIONS OF MAGNESIUM, CERIUM AND ZIRCONIUM 67-01 M17-57283
INVESTIGATION OF THE EFFECT OF COMPLEX ALLOYING ON THE PHYSICAL AND MECHANICAL PROPERTIES OF NIOBIUM 67-02 M17-59873
INFLUENCE OF ZIRCONIUM ON STRAIN AGING OF STEEL 67-02 M17-61969
THE HIGH-TEMPERATURE CORROSION RESISTANCE OF CHROMIUM ALLOYS WITH ZIRCONIUM 67-02 M18-59956
THE OXIDATION OF CB-ZR AND CB-ZR-RE ALLOYS IN OXYGEN AT 1000 C 67-03 M18-65094
IMPROVED HIGH-STRENGTH ALUMINUM FORGING ALLOY 67-04 M10-68132
THE THETA PHASE IN THE PLUTONIUM-ZIRCONIUM SYSTEM 67-05 M14-68223
SOLUBILITY RELATIONSHIPS IN MAGNESIUM-MANGANESE-ZIRCONIUM ALLOYS 67-05 M14-69567
THE DEPENDENCE OF THE ANISOTROPY OF PROPERTIES IN ZIRCONIUM STEELS ON HEAT TREATMENT 67-05 M17-68449
EFFECT OF ALLOYING ELEMENTS ON THE FORMABILITY OF CAST RE 67-05 M17-68978
INHIBITION OF GRAIN GROWTH DURING RECRYSTALLIZATION AND HARDENING BY INTERVAL HYDROGENATION OF MAGNESIUM-ZIRCONIUM ALLOYS 67-06 M14-70253
ON THE SELECTION OF ALLOYING ELEMENTS FOR THE PRODUCTION OF TITANIUM-BASE HEAT RESISTANT ALLOYS 67-06 M17-69990
THE EFFECTS OF MANGANESE AND ZIRCONIUM ON THE HOT SHORTNESS OF AL-MG-ZN SYSTEM ALLOYS 67-06 M17-70382
RESEARCH INTO THE OXIDATION OF NIOBIUM ALLOYED WITH VANADIUM, TITANIUM AND ZIRCONIUM 67-06 M18-70926

THE EFFECT OF AL-CR AND AG-ZR ADDITIONS ON THE MECHANICAL PROPERTIES AND STRESS CORROSION BEHAVIOR OF HIGH-STRENGTH ALZNMGCU ALLOYS 67-06 M18-71984

THE EFFECT OF ZIRCONIUM AS A FUNCTION OF THE CARBON CONTENT ON THE INTERCRYSTALLINE CORROSION OF AUSTENITIC CR-NI STAINLESS STEELS 67-06 M18-72162

EFFECT OF MICROALLOYING WITH RARE EARTH ON THE STABILITY OF THERMAL STRENGTHENING OF STEEL 67-07 M10-73789

COPPER-ZIRCONIUM ALLOYS 67-08 M01-74953

THE MECHANISM OF INOCULATING STEEL WITH ZIRCONIUM 67-08 M04-74583

EFFECT OF ADDITIONAL ELEMENTS ON WELD CRACK SUSCEPTIBILITY OF AL-ZN-MG ALLOYS 67-08 M17-75768

INFLUENCES OF THE ADDITIONAL ELEMENTS ON SOME PROPERTIES OF HIGH-ZIRCONIUM CU ZR ALLOYS 67-09 M01-77249

EFFECT OF MICROALLOYING WITH RARE METALS ON STABILITY OF THERMOMECHANICAL HARDENING OF STEEL 67-09 M04-76552

EFFECT OF ZIRCONIUM ON THE SUSCEPTIBILITY OF STEEL TO STRAIN AGING 67-10 M17-78826

EFFECTS OF ADDING SMALL AMOUNTS OF ZIRCONIUM TO HIGH-TENSILE REINFORCEMENT STEEL ON ITS PROPERTIES 67-10 M17-78930

GAS CONTENT VARIATION IN ALUMINUM ALLOYS DURING TREATMENT WITH ZIRCONIUM 67-11 M03-81466

EFFECT OF CRYSTALLIZATION AND HEAT TREATMENT ON THE STRUCTURE AND PROPERTIES OF CAST HIGH-SPEED STEEL 67-11 M04-81664

EFFECT OF ZIRCONIUM ON THE PROPERTIES OF LOW-CARBON ARSENOUS STEEL 67-11 M17-80863

EFFECT OF TITANIUM, ZIRCONIUM, AND HAFNIUM ON THE PROPERTIES OF MOLYBDENUM ALLOYED WITH CARBON 67-11 M17-80991

MECHANICAL PROPERTIES OF NB-ZR SOLID SOLUTION ALLOYS 67-11 M17-81064

ANTIEMISSION ALLOY 67-12 M16-83324

IMPACT STRENGTH OF CAST TOOLS MADE OF R5M2F2 HIGH-SPEED TOOL STEEL 67-12 M17-81778

THE INFLUENCE OF ZIRCONIUM ON DYNAMIC STRENGTHENING OF NIOBIUM ALLOYS 67-12 M17-81826

ZIRCONIUM, ATOMIC PROPERTIES

INELASTIC PROTON SCATTERING FROM ZR90 AND ZR92 67-10 M16-78715

ELECTRONIC STRUCTURE OF ZIRCONIUM 67-10 M16-79416

ELECTRON STRUCTURES OF ALLOYS OF THE SYSTEM NB-ZR 67-12 M16-82796

ZIRCONIUM, BINARY SYSTEMS

NEW PHASES IN THE ZR-P AND ZR-AS SYSTEMS 67-03 M13-65690

PHASE DIAGRAMS OF SYSTEMS OF HYDROGEN WITH TITANIUM, ZIRCONIUM, VANADIUM AND NIOBIUM 67-04 M13-66824

MICROANALYSIS OF OXIDIZED MOLTEN IRON ALLOYS 67-04 M19-67269

RESEARCH INTO ZR-C SYSTEM ALLOYS 67-08 M13-75462

STUDY OF ALLOYS BELONGING TO THE ZIRCONIUM-CARBON SYSTEM 67-10 M01-79627

PROPERTIES OF IODIDE-TYPE HAFNIUM AND ALLOYS IN THE ZIRCONIUM-HAFNIUM SYSTEM 67-10 M17-79628

ZIRCONIUM, BONDING

PRESSURE BONDING 67-11 M11-80479

ZIRCONIUM, CASTING

CASTING OF ZIRCALOY-URANIUM CORES FOR HWCTR DRIVER TUBES 67-07 M06-73152

MELTING AND CASTING REFRACTORY OR REACTIVE METALS BY PLASMA ELECTRON BEAM 67-09 M06-78223

ZIRCONIUM, CLEANING

CORROSION TEST COUPONS--MECHANICAL CLEANING 67-01 M12-58768

ZIRCONIUM, COATING

STUDY OF DEPOSITION OF BORON ON THE SURFACE OF ZIRCONIUM 67-12 M12-82287

ZIRCONIUM, COATINGS

ELECTROLYTIC METALLIDING 67-12 M12-82074

ZIRCONIUM, COMPOSITE MATERIALS

A NEW TYPE OF COMPOSITE ALL-METAL ELECTRON EMITTER FOR VALVES AND ELECTRON-OPTICAL DEVICES 67-08 M15-74394

ZIRCONIUM, CORROSION

SOME CHARACTERISTICS OF THE MECHANISM OF OXIDATION OF TITANIUM AND ZIRCONIUM 67-01 M18-58045

INVESTIGATION ON THE CORROSION OF ZIRCONIUM IN ORGANIC SOLUTIONS IN THE PRESENCE OF HYDROGEN CHLORIDE 67-01 M18-58233

INVESTIGATIONS ON THE CORROSION OF ZIRCONIUM IN ELECTROLYTIC SOLUTIONS BY THE USE OF RADIONUCLIDES 67-01 M18-58385

A SUPERFICIAL ASPECT PRESENTED BY ZIRCONIUM ANNEALED IN THE BETA PHASE 67-02 M18-62297

CORROSION OF ZIRCONIUM IN MOLTEN CHLORIDES OF ALKALI METALS 67-03 M18-65442

OXIDE GROWTH AND CAPACITANCE ON PREIRRADIATED ZIRCALOY-2 AND ZIRCONIUM 67-05 M18-68617

INTERACTION BETWEEN METALLIC ZIRCONIUM AND MOLTEN, NACL, KCL AND CSCL 67-07 M18-73651

INFLUENCE OF HEAT TREATMENT ON CORROSION OF PURE ZIRCONIUM IN HYDROCHLORIC ACID 67-07 M18-73654

THE EFFECT OF NEON BOMBARDMENT ON THE CORROSION OF ZR 67-08 M18-74792

INFLUENCE OF ANNEALING AT 600 C. ON ANODIC BEHAVIOR OF PURE ZIRCONIUM IN HYDROCHLORIC ACID 67-10 M18-78539

BEHAVIOR OF ZIRCONIUM ALLOYS IN WATER AND SUPERHEATED STEAM 67-10 M18-79931

PLASTIC DEFORMATION OF ZIRCONIUM DURING OXIDATION 67-10 M18-79985

INVESTIGATION OF THE STRUCTURE OF SURFACE FILMS ON HIGH-PURITY ZIRCONIUM 67-11 M18-81294

CORROSION UNDER HEAT TRANSFER--SERVICE FAILURES AND LABORATORY TESTING 67-11 M18-81552

ZIRCONIUM, CRYSTAL LATTICES

DISLOCATION LOOPS IN IRRADIATED ZIRCONIUM 67-02 M13-60816

BASAL AND PRISMATIC SLIP IN HCP CRYSTALS 67-06 M13-71974

ATOM MOVEMENTS DURING --1011-- TWINNING 67-06 M14-70445

X-RAY STUDY OF COLD WORK AND RECOVERY IN SOME HCP METALS AND ALLOYS 67-11 M13-80377

THE SOLUTION OF INTERSTITIAL ELEMENTS IN THE BODY-CENTERED CUBIC EARLY TRANSITION METALS 67-11 M14-81118

ZIRCONIUM, DEOXIDIZERS

DEOXIDATION OF IRON MELTS BY ZIRCONIUM 67-09 M04-77188

ZIRCONIUM, DESORPTION

THE TRAPPING OF HYDROGEN IONS IN MOLYBDENUM, TITANIUM, TANTALUM AND ZIRCONIUM 67-10 M14-79336

ZIRCONIUM, DIFFUSION

A REVIEW OF DIFFUSION PROCESSES IN ZIRCONIUM AND ITS ALLOYS 67-02 M14-59018

ON THE ANOMALOUS DIFFUSION BEHAVIOUR OF BCC ZIRCONIUM 67-04 M14-66547

CARBON DIFFUSION IN BETA ZIRCONIUM 67-04 M14-67657

DIFFUSION OF YTTRIUM IN ZIRCONIUM 67-06 M14-70104

SELF-DIFFUSION AND ELASTIC CONSTANTS IN THE ANOMALOUS BCC METALS 67-06 M14-70427

DIFFUSION MECHANISM IN BODY-CENTERED CUBIC METALS 67-06 M14-72066

INSOLUBILITY AND DISLOCATION DIFFUSION IN METALS 67-06 M14-72229

DIFFUSION OF ZIRCONIUM IN ZIRCONIUM HYDRIDE 67-07 M14-72831

MUTUAL DIFFUSION OF COLUMBIUM WITH SOME REFRACTORY METALS 67-07 M14-74188

DIFFUSION AND SULFUR DISTRIBUTION IN ZIRCONIUM 67-09 M14-77775

EXPERIMENTAL STUDY OF THE EFFECT OF TEMPERATURE GRADIENT ON THE DISTRIBUTION OF HYDROGEN IN ZIRCONIUM 67-10 M14-79625

DIFFUSION OF YTTRIUM IN ZIRCONIUM 67-10 M14-79626

SELF-AND IMPURITY DIFFUSION IN ALPHA-ZIRCONIUM 67-11 M14-81597

DIFFUSION OF METALLIC IMPURITIES IN ZIRCONIUM AND TITANIUM 67-12 M14-82330

ZIRCONIUM, ELECTRICAL PROPERTIES

LOW TEMPERATURE RECOVERY OF DEFORMED ZIRCONIUM 67-03 M14-65694

THE THERMOELECTRIC PROPERTIES OF SOME REFRACTORY METALS 67-06 M15-70345

WORK FUNCTION OF METALS 67-06 M16-70492

A STUDY OF THE TWO PURITY CRITERIA OF ZIRCONIUM 67-10 M13-79875

OBSERVATION OF A DEVIATION FROM MATTHIESSENS LAW IN ZIRCONIUM 67-12 M15-83156

ZIRCONIUM, EXTRACTION
SOME CHARACTERISTICS OF THE SEPARATION OF ZIRCONIUM AND HAFNIUM BY CRYSTALLIZATION OF COMPLEX FLUORIDES 67-01 M02-57307
PILOT PLANT PRODUCTION OF NUCLEAR GRADE ZIRCONIUM SPONGE FROM INDIAN ZIRCON 67-01 M03-57490
CRYSTALLIZATION OF METALS ON THE CATHODE DURING ELECTROLYSIS OF FUSED SALTS 67-02 M03-59647
DECOMPOSITION OF LEAN ZIRCON-PYROCHLORE CONCENTATES BY HYDROFLUORIC ACID 67-02 M03-59850
OBTAINING NIOBIUM AND TANTALUM OXIDES FROM ZIRCON-PYROCHLOROUS CONCENTRATE 67-03 M03-65583
READYING THE SWITCH TO ZIRCONIUM 67-07 M03-73212
POLARIZATION OF LIQUID ZINC CATHODE DURING ELECTROLYSIS OF ZIRCONIUM-BEARING POTASSIUM AND SODIUM CHLORIDE MELTS 67-09 M03-77122
PILOT PLANT PRODUCTION OF NUCLEAR GRADE ZIRCONIUM SPONGE FROM INDIAN ZIRCON 67-09 M03-78132
EXTRACTION OF ZIRCONIUM FROM HYDROCHLORIC ACID SOLUTIONS BY DI-N-PENTYL SULPHOXIDE 67-10 M03-79377
ZIRCONIUM, EXTRUSION
DEVELOPMENT AND STATUS OF THE APPLICATION OF THE EXTRUSION PROCESS TO STEEL 67-06 M07-70452
ZIRCONIUM, FUEL ELEMENTS
ZR PRODUCERS RESPOND TO NUCLEAR GROWTH 67-10 M20-78472
ZIRCONIUM, HEAT TREATMENT
ISOTHERMAL SATURATION OF REFRACTORY METALS WITH NITROGEN AND STEP-WISE NITROGENATION 67-02 M10-61629
VIBRATORY STRESS RELIEVING 67-11 M10-81498
ZIRCONIUM, INTERMETALLICS
EVIDENCE FOR ITINERANT ELECTRON FERROMAGNETISM IN ZRZN2 67-01 M16-58636
THERMOCHEMICAL AND STRUCTURAL ASPECTS OF THE REACTION OF HYDROGEN WITH ALLOYS AND INTERMETALLI COMPOUNDS OF ZIRCONIUM 67-02 M14-59020
HIGH-TEMPERATURE OXIDATION. PT. 3. ZIRCONIUM AND HFANIUM DIBORIDES 67-02 M14-61768
THE SPECIFIC HEAT OF ZRZN2 67-03 M15-65134
CRYSTAL STRUCTURE OF ZR5SI4 67-05 M14-69850
EQUIATOMIC BINARY COMPOUNDS OF ZR WITH TRANSITION ELEMENTS RU, RH AND PD 67-07 M14-72655
INTERACTION OF CONDUCTION AND INDUCED CURRENTS IN NB3ZR WIRES SUBJECTED TO AXIAL FIELDS 67-08 M15-75553
MAGNETIC PROPERTIES OF ZRZN2--ITINERANT ELECTRON FERROMAGNET 67-08 M15-76171
NEW A-15 PHASES 67-08 M16-75002
EFFECT OF FAST NEUTRON IRRADIATION AT LOW TEMPERATURE ON NBZR COIL PERFORMANCE 67-11 M16-80335
SOME NEW PHASES OF THE MN5SI3 TYPE 67-12 M14-82052
ZIRCONIUM, MACHINING
WHICH DIAMOND WHEEL FOR SPACE AGE CERAMICS 67-06 M08-72029
ZIRCONIUM, MECHANICAL PROPERTIES
THE HYDROGEN EMBRITTLEMENT OF ALPHA-ZIRCONIUM--A REVIEW 67-01 M17-58533
HYDRIDE MORPHOLOGY IN STRESSED ZIRCONIUM AND THE INFLUENCE OF SPECIMEN SIZE ON DUCTILITY 67-02 M17-59021
ON THE FRACTURE OF ZIRCONIUM CONTAINING ZIRCONIUM HYDRIDE PRECIPITATES 67-02 M17-59022
GRAIN-SIZE-DEPENDENCE IN THE FLOW AND FRACTURE OF ALPHA-ZIRCONIUM 67-02 M17-61294
CONTRIBUTION TO THE STUDY OF MAGNESIUM, ZIRCONIUM, BERYLLIUM AND ZINC BEHAVIOR DURING ALTERNATIVE PLASTIC DEFORMATIONS 67-03 M17-65554
THE CONFIGURATION OF IMPACT ENERGY-DEFLECTION DIAGRAMS 67-04 M17-67412
TEXTURE STRENGTHENING 67-05 M17-68669
EFFECT OF PRERECRYSTALLIZATION ANNEAL ON CHANGES IN ELASTIC CHARACTERISTICS AND STRUCTURE OF COLD ROLLED TI AND ZR 67-05 M17-68973
ON THE INTERPRETATION OF FRACTURE SURFACE OBSERVATIONS 67-06 M17-70444
APPLICATION OF ANISOTROPIC ELASTICITY THEORY TO THE CHOICE OF PRIMARY SLIP SYSTEMS IN HCP METAL CRYSTALS 67-06 M17-71277
STRAIN HARDENING OF ZR SPECIMENS OF VARYING PURITY BY ROLLING AT AMBIENT TEMPERATURES 67-10 M17-79898
THERMALLY ACTIVATED DEFORMATION OF ALPHA ZIRCONIUM 67-11 M14-81347
METALS FOR THE SPACE AGE 67-12 M20-83001
ZIRCONIUM, METAL WORKING
THE UPSETTING PROPERTIES OF ZIRCONIUM AND ZIRCALOY. PT. 2 67-06 M17-71729
ZIRCONIUM, MICROSTRUCTURE
HYDRIDE HABIT IN ZIRCONIUM AND IN UNSTRESSED AND STRESSED ZIRCALOY-4 67-06 M13-69944
SECONDARY RECRYSTALLIZATION IN ALPHA ZIRCONIUM 67-06 M14-71624
THE EMBRITTLEMENT OF OXIDE FILMS ON ZIRCONIUM BY NEUTRON IRRADIATION 67-07 M13-74234
ZIRCONIUM, NONDESTRUCTIVE TESTING
DETERMINATION OF OXYGEN IN AL AND ZR BY IRRADIATION WITH HE IONS 67-02 M19-62194
ZIRCONIUM, NUCLEAR METALLURGY
THE MACHINING OF NUCLEAR MATERIALS 67-04 M08-67297
ZIRCONIUM, NUCLEAR REACTORS
THE PROPERTIES OF ZIRCONIUM ALLOYS AS CONSTRUCTION MATERIALS IN NUCLEAR REACTORS. PT. 1 67-05 M20-69587
ZIRCONIUM, OXIDATION
ELECTRON MICROSCOPE OBSERVATIONS ON THE OXIDATION OF ZIRCONIUM. A CONTRIBUTION TO THE CUBIC KINETIC THEORY 67-09 M14-76513
RESEARCH INTO REACTIONAL DIFFUSION IN METAL-COMPLEX GAS SYSTEMS. PT. 9. OXIDATION OF ZIRCONIUM IN AN ATMOSPHERE CONTAINING NITROGEN 67-12 M18-83301
ZIRCONIUM, POWDER METALLURGY
DIRECT CURRENT PLASMA--A NEW SPHEROIDIZING PROCESS 67-02 M09-59468
ZIRCONIUM, QUATERNARY SYSTEMS
STUDY OF THE NIOBIUM-ZIRCONIUM-HAFNIUM-CARBON SYSTEM 67-12 M13-83407
ZIRCONIUM, REACTIONS /CHEMICAL/
CONTACT INTERACTION OF TIN WITH TI, ZR AND V IN VACUUM 67-02 M14-62243
EFFECTS OF NEUTRON IRRADIATION AND VACUUM ANNEALING ON OXIDE FILMS ON ZIRCONIUM 67-02 M16-59025
THE MECHANISM OF METAL OXIDATION AT HIGH TEMPERATURES 67-02 M18-62008
EPITAXIAL OXIDATION OF ZIRCONIUM AT VARIOUS TEMPERATURES 67-05 M18-68212
AQUEOUS CHEMISTRY OF ZIRCONIUM--SOLVENT EXTRACTION AND ION EXCHANGE STUDIES 67-06 M03-72044
FURTHER OBSERVATIONS ON THE OXIDATION OF ZIRCONIUM IN DRY OXYGEN 67-06 M18-70661
FUNDAMENTAL ASPECTS OF THE OXIDATION OF ZR IN CARBONIC GAS 67-11 M18-80354
ZIRCONIUM, REFINING
APPLICATION OF THE ZONE MELTING METHOD TO THE PURIFICATION OF ZIRCONIUM AND STUDY OF CERTAIN PROPERTIES OF THE METAL THUS PURIFIED 67-01 M03-58378
ELECTROCHEMICAL PURIFICATION OF A MELT CONTAINING ZIRCONIUM CHLORIDE 67-04 M03-66974
OBTAINING PURE METALS BY CHEMICAL METHODS 67-04 M03-67843
PREPARATION OF PURE ZIRCONYL COMPOUNDS FROM ZIRCON CAUSTIC FRIT 67-07 M02-73823
ZIRCONIUM, ROLLING
ROLLING ULTRATHIN TITANIUM FOIL 67-06 M07-71583
ZIRCONIUM, SOLUBILITY
SOLID SOLUBILITY OF ZIRCONIUM IN ALUMINUM 67-02 M13-59890
ZIRCONIUM, SPECTRUM ANALYSIS
ELECTRON STRUCTURE OF ALLOYS OF THE CB-ZR SYSTEM 67-06 M16-71475
ZIRCONIUM, SUPERCONDUCTIVITY
MEASUREMENT OF LOW JOINT RESISTANCE BETWEEN SUPERCONDUCTORS 67-11 M16-80333
ZIRCONIUM, TERNARY SYSTEMS
ZIRCONIUM-VANADIUM-BORON SYSTEM 67-01 M13-58059
PHASE EQUILIBRIUM DIAGRAM OF THE SYSTEM OF THE INTERMETALLIC COMPOUNDS NBCR2-ZRCR2 67-02 M13-59594
CONSTITUTION DIAGRAM OF THE ZR-FE-B SYSTEM 67-02 M13-59889
INVESTIGATION OF THE TICR2-ZRCR2 SYSTEM 67-02 M13-59897
PHASE EQUILIBRIA IN THE SYSTEM ZR-W-C 67-02 M13-60577
PHASE EQUILIBRIA IN THE TERNARY SYSTEMS ZR-CO-C AND NB-FE-C 67-02 M13-61635
X-RAY INVESTIGATIONS IN A FEW T-T5-AL SYSTEMS 67-02 M13-61888

ZIRCONIUM

SUPERCONDUCTING CRITICAL FIELDS, CURRENTS AND TEMPERATURES IN THE NB-ZR-N TERNARY SYSTEM 67-03 M16-65390
STRUCTURE OF ALLOYS IN THE ZR-C-NB SYSTEM 67-04 M13-67097
THE STRUCTURE OF THE ZRCR2-TACR2 SYSTEM 67-04 M14-66165
THE ZRC-MO PHASE DIAGRAM 67-04 M14-67236
THE STRUCTURE OF ALLOYS IN THE ZR-C-TA SYSTEM 67-05 M13-69492
PHASE DIAGRAM OF THE NB-TI-ZR SYSTEM AND SUPERCONDUCTING PROPERTIES OF THE ALLOYS OF THIS SYSTEM 67-05 M13-69640
NUCLEAR MAGNETIC RESONANCE AND SPECIFIC HEAT MEASUREMENTS OF TRANSITION METALS AND ALLOYS.. TI-V-FE AND ZR-NB-MO SYSTEMS 67-05 M16-69758
CRYSTALLINE STRUCTURES OF COMPOUNDS ZR2NI2IB6 AND ZR2CO2IB6 67-07 M13-73481
TERNARY SYSTEMS OF TI-ZR-C AND TI-HF-C 67-08 M13-75435
FUSIBILITY DIAGRAM OF THE TI-ZR-CR SYSTEM 67-08 M13-75895
SOLID SOLUTIONS IN THE ZR-NB-HF SYSTEM 67-08 M13-75896
RESEARCH INTO ZIRCONIUM-NICKEL-ALUMINIUM SYSTEM ALLOYS WITH HIGH ALUMINIUM CONTENT 67-09 M14-76937
THE PHASE EQUILIBRIA IN THE TERNARY SYSTEMS ZIRCONIUM-VANADIUM-BORON, ZIRCONIUM-NIOBIUM-BORON AND ZIRCONIUM-MANGANESE-BORON 67-10 M13-79346
X-RAY STRUCTURE INVESTIGATIONS OF SUPERCONDUCTING ALLOYS WITH NIOBIUM AS THE BASE 67-10 M13-79542
CEMENTED CARBIDES WITH HIGH-MELTING BINDERS. PT. 2. TERNARY EQUILIBRIUM SYSTEMS 67-10 M14-79979
LATTICE SPACINGS AND EFFECTIVE ATOMIC DIAMETERS IN THE TERNARY SYSTEM TH-CE-ZR 67-10 M16-78669
ZIRCONIUM-TANTALUM-CHROMIUM-SYSTEM 67-12 M13-82048
ISOTHERMAL SECTIONS AT 600 AND 750 C. OF THE PHASE DIAGRAM OF THE MOLYBDENUM-TITANIUM-ZIRCONIUM SYSTEM 67-12 M13-83353

ZIRCONIUM, THERMAL PROPERTIES
DETERMINING THE LATENT HEAT OF FUSION OF ZIRCONIUM 67-09 M15-77121
THERMOELECTRIC POWER OF SOME METALS AND ALLOYS IN THE LIQUID STATE 67-11 M15-81047

ZIRCONIUM, THERMODYNAMICS
THE ATOMIC HEAT OF ZR BETWEEN 300 AND 1700 C 67-11 M15-80866

ZIRCONIUM, THIN FILMS
OBSERVATION OF THIN FILMS OF ZIRCONIUM UNDER THE TRANSMISSION ELECTRON MICROSCOPE 67-01 M13-58023

ZIRCONIUM, TRANSPORT PROPERTIES
THERMOTRANSPORT OF OXYGEN IN BETA ZIRCONIUM 67-04 M15-66055
BEHAVIOR OF ULTRATHIN ZIRCONIUM FILMS UPON EXPOSURE TO OXYGEN 67-09 M16-77446

ZIRCONIUM, WELDING
VACUUM SHIELDING OF METALS DURING WELDING 67-01 M11-57395
SOME FUNDAMENTAL PROBLEMS IN ULTRASONIC WELDING OF DISSIMILAR METALS 67-07 M11-74280

ZIRCONIUM BASE ALLOYS, ATOMIC PROPERTIES
ELECTRON STRUCTURES OF ALLOYS OF THE SYSTEM NB-ZR 67-12 M16-82796

ZIRCONIUM BASE ALLOYS, CASTING
CASTING OF ZIRCALOY-URANIUM CORES FOR HWCTR DRIVER TUBES 67-07 M06-73152

ZIRCONIUM BASE ALLOYS, CHEMICAL ANALYSIS
SPECTROCHEMICAL ANALYSIS OF ZIRCONIUM AND ITS ALLOYS. PT. 4. SPECTROGRAPHIC DETERMINATION OF ALLOYING ELEMENTS IN ZIRCALOY-2 BY THE POINT-TO-PLANE LOW VOLTAGE SPARK TECHNIQUE 67-09 M19-77989

ZIRCONIUM BASE ALLOYS, CLAD METALS
EXAMINATION OF FUEL AND CLADDING IN PWR-1 BLANKET RODS 67-03 M18-65019

ZIRCONIUM BASE ALLOYS, COMBUSTION
COMBUSTIBILITY OF METAL POWDER 67-02 M09-61797

ZIRCONIUM BASE ALLOYS, CORROSION
HIGH-TEMPERATURE OXIDATION MECHANISM IN 2.5 PER CENT TIN-ZIRCONIUM ALLOY 67-01 M18-58745
THE OXIDATION RESISTANCE OF ALLOYS OF ZIRCONIUM BORIDE WITH MOLYBDENUM DISILICIDE 67-02 M09-62212
EFFECTS OF RADIATION ON THE OXIDATION AND HYDROGEN ABSORPTION OF ZIRCONIUM ALLOYS IN STEAM 67-02 M18-59024
CORROSION OF ZIRCALOY-2 BY HYDROGEN PEROXIDE AT ELEVATED TEMPERATURE 67-02 M18-59452
THE EFFECT OF HEAT TREATMENT ON THE CORROSION BEHAVIOR OF ZRNB 1 AND ZRNB 0.5 IN HIGH-TEMPERATURE STEAM 67-02 M18-60986
OXIDATION MECHANISM OF ZIRCONIUM-COPPER ALLOYS IN CARBON DIOXIDE AT HIGH TEMPERATURES 67-02 M18-62191
INFLUENCE OF THE INCREASING CU CONTENT ON THE FORMATION OF AN INTERMEDIARY LAYER AT THE METAL-OXIDE INTERFACE IN THE COURSE OF OXIDATION AT 750 C. OF ZR-CU ALLOYS 67-03 M18-65860
THE RELATIONSHIP BETWEEN THE STRUCTURE OF ZIRCALOY 2 AND ITS CORROSION RESISTANCE TO STEAM UNDER PRESSURE AT 400 C 67-04 M14-66674
EFFECT OF HEAT TREATMENT ON THE CORROSION RESISTANCE OF ZIRCONIUM ALLOYS 67-04 M18-66401
CORROSION OF ZIRCALOY-2 AND 4 IN HIGH TEMPERATURE AND HIGH PRESSURE BOILING WATER AND STEAM 67-04 M18-68159
OXIDE GROWTH AND CAPACITANCE ON PREIRRADIATED ZIRCALOY-2 AND ZIRCONIUM 67-05 M18-68617
OXIDATION OF ZIRCALOY-2 AT 600 TO 800 C 67-06 M18-70782
INFLUENCE OF IRRADIATION ON THE CORROSION OF ZIRCALOY 2 IN AQUEOUS HIGH-TEMPERATURE ENVIRONMENTS 67-09 M18-77470
INFLUENCE OF SURFACE TREATMENT ON THE CORROSION OF STAINLESS STEELS AND ZIRCONIUM ALLOYS IN HIGH-TEMPERATURE WATER AND STEAM 67-09 M18-78021
INFLUENCE OF FLUORINE IONS ON CORROSION OF OKH18N10T STEEL IN WATER AND HIGH-PRESSURE STEAM 67-10 M18-78538

ZIRCONIUM BASE ALLOYS, CRYSTAL GROWTH
GROWTH OF SINGLE CRYSTALS OF ZIRCALOY-2 67-02 M14-61298

ZIRCONIUM BASE ALLOYS, CRYSTAL LATTICES
THE ORIENTATION OF ZIRCONIUM HYDRIDE ON GRAIN BOUNDARIES IN ZIRCALOY-2 67-07 M13-74226

ZIRCONIUM BASE ALLOYS, DIFFUSION
STUDY OF COMPATIBILITY IN THE SYSTEMS ZIRCALOY-2/ALUMINUM, ZIRCALOY-2/COPPER AND ZIRCALOY-2/NICKEL 67-02 M14-58923
A REVIEW OF DIFFUSION PROCESSES IN ZIRCONIUM AND ITS ALLOYS 67-02 M14-59018
SELF-DIFFUSION OF NIOBIUM IN NB-TI AND NB-ZR ALLOYS 67-02 M14-62241

ZIRCONIUM BASE ALLOYS, ELECTRICAL PROPERTIES
ON THE RELATIONSHIP OF THE PARAMETERS OF SUPERCONDUCTIVITY OF ZR-4 PER CENT NB ALLOY TO ITS STRUCTURE 67-02 M16-59928
RELATION BETWEEN THE STRUCTURE AND SUPERCONDUCTIVITY PARAMETERS OF THE ALLOY OF ZIRCONIUM WITH 4 PER CENT NIOBIUM 67-07 M16-72583

ZIRCONIUM BASE ALLOYS, EXTRACTION
READYING THE SWITCH TO ZIRCONIUM 67-07 M03-73212

ZIRCONIUM BASE ALLOYS, EXTRUSION
THE TECHNOLOGY OF COEXTRUSION IN PRODUCING URANIUM-ZIRCALOY TUBULAR FUEL ELEMENTS 67-12 M07-82806

ZIRCONIUM BASE ALLOYS, FORMING
COMPARATIVE TEXTURES OF SLOWLY AND EXPLOSIVELY LOADED METALS 67-05 M13-69745

ZIRCONIUM BASE ALLOYS, FUEL ELEMENTS
THE FABRICATION OF CLADDING TUBES FOR NUCLEAR FUEL ELEMENTS FROM ZR ALLOYS 67-10 M01-79074

ZIRCONIUM BASE ALLOYS, MECHANICAL PROPERTIES
THE DEFORMATION BEHAVIOR OF ZIRCALOY-2 CONTAINING DIRECTIONALLY ORIENTED ZIRCONIUM HYDRIDE PRECIPITATES 67-02 M17-59023
EFFECTS OF IRRADIATION AND ENVIRONMENT ON THE MECHANICAL PROPERTIES AND HYDROGEN PICKUP OF ZIRCALOY 67-02 M17-59026
EFFECT OF IRRADIATION ON THE IMPACT PROPERTIES OF HYDRIDED ZIRCALOY-2 AND ZIRCONIUM-NIOBIUM ALLOY 67-02 M17-59027
INFLUENCE OF NEUTRON IRRADIATION ON THE CREEP OF ZIRCALOY-2 AT 300 C 67-02 M17-59028
EFFECT OF NEUTRON IRRADIATION ON TENSILE PROPERTIES OF THE ZIRCONIUM-2.5 WEIGHT PER CENT NIOBIUM ALLOY 67-02 M17-59029
ACOUSTIC RELAXATIONS IN ZIRCONIUM-NIOBIUM ALLOYS 67-03 M17-65871

TEXTURE STRENGTHENING 67-05 M17-68669
EFFECTS OF NEUTRON IRRADIATION ON THE FLOW AND FRACTURE BEHAVIOR OF ZIRCALOY-2 67-07 M17-73394
IN-REACTOR CREEP OF COLD-WORKED ZIRCALOY-2 67-07 M17-73395
CRACK PROPAGATION TESTS ON ZIRCALOY-2 REACTOR PRESSURE TUBING IN BOTH THE NORMAL AND HYDRIDED CONDITIONS 67-07 M17-73400
ELASTIC MODULUS OF STABILIZED ZIRCONIA 67-08 M17-76096
THE EFFECT OF HYDROGEN AND STRAIN RATE ON THE DUCTILE-BRITTLE BEHAVIOUR OF ZIRCALOY 67-09 M17-78258
INFLUENCE OF PRECIPITATES ON THE MECHANICAL PROPERTIES OF ZR-CU ALLOYS 67-11 M17-80149
SELECTED METALLURGICAL ASPECTS OF CLADDING MATERIALS 67-11 M17-80473
THE MECHANISM OF HIGH TEMPERATURE STEADY STATE CREEP OF METALS AND ALLOYS 67-12 M17-82416
THE EFFECT OF PREFERRED ORIENTATION ON THE MECHANICAL PROPERTIES AND DEFORMATION BEHAVIOR OF ZIRCALOY-2 FUEL SHEATHING 67-12 M17-82571
SUPERPLASTICITY IN SOME TITANIUM AND ZIRCONIUM ALLOYS 67-12 M17-82728

ZIRCONIUM BASE ALLOYS, MELTING
NEW METHOD OF MANUFACTURING LOW-SILICON ZIRCONIUM ALLOYS 67-09 M03-76823

ZIRCONIUM BASE ALLOYS, METAL WORKING
THE UPSETTING PROPERTIES OF ZIRCONIUM AND ZIRCALOY. PT. 2 67-06 M17-71729

ZIRCONIUM BASE ALLOYS, METALLOGRAPHY
A METHOD OF MAKING OXIDE REPLICAS FOR STUDYING THE STRUCTURE OF ALLOYS OF THE ZR-NB SYSTEM 67-05 M13-69630

ZIRCONIUM BASE ALLOYS, MICROSTRUCTURE
EFFECT OF TEXTURE, GRAIN SIZE, AND COLD WORK ON THE PRECIPITATION OF ORIENTED HYDRIDES IN ZIRCALOY TUBING AND PLATE 67-03 M14-65849
THE MICROSTRUCTURAL CHARACTERIZATION OF COLD-ROLLED ZIRCALOY-4 SHEET 67-06 M13-69928
HYDRIDE HABIT IN ZIRCONIUM AND IN UNSTRESSED AND STRESSED ZIRCALOY-4 67-06 M13-69944
ELECTRON MICROSCOPIC STUDY OF THE STRUCTURE OF ZR-4 PER CENT NB ALLOY 67-11 M13-80742

ZIRCONIUM BASE ALLOYS, NUCLEAR REACTORS
THE PROPERTIES OF ZIRCONIUM ALLOYS AS CONSTRUCTION MATERIALS IN NUCLEAR REACTORS. PT. 1 67-05 M20-69587

ZIRCONIUM BASE ALLOYS, PHASE TRANSFORMATIONS
INFLUENCE OF ZIRCALLOY 2 TRANSFORMATION CONDITIONS ON THE STRUCTURE AND MECHANICAL PROPERTIES OF FINISHED AND SEMIFINISHED PRODUCTS 67-04 M14-66043
THE REFRACTORY NATURE OF CUBIC SOLID SOLUTIONS FORMED BY ZR WITH CERTAIN SESQUIOXIDES OF RARE EARTH ELEMENTS 67-10 M14-79896

ZIRCONIUM BASE ALLOYS, PHASES /STATE OF MATTER/
X-RAY MICROGRAPHY STUDY OF SOME ALLOYS IN THE ZR-FE AND ZR-CO SYSTEMS 67-02 M13-59660
HYDROGEN SOLUBILITY IN ZIRCONIUM ALLOYS 67-02 M14-59019
THERMOCHEMICAL AND STRUCTURAL ASPECTS OF THE REACTION OF HYDROGEN WITH ALLOYS AND INTERMETALLI COMPOUNDS OF ZIRCONIUM 67-02 M14-59020
ZIRCONIUM-MOLYBDENUM NITRIDE 67-05 M14-68217

ZIRCONIUM BASE ALLOYS, PHYSICAL PROPERTIES
THE TERMINAL SOLUBILITY OF HYDROGEN IN ZIRCONIUM ALLOYS BETWEEN 30 AND 400 C 67-05 M14-69562
A BOOMLET IN ZIRCALOY 67-06 M20-71067
ZIRCALOY-2 --NUCLEAR REACTOR ALLOY-- 67-09 M01-76530
ZR HF TI NEWSLETTER 67-09 M01-78164

ZIRCONIUM BASE ALLOYS, PRESSURE VESSELS
DEFORMABLE ALLOY ZR-TI-O-FE FOR HIGH-PRESSURE VESSELS 67-02 M09-61631

ZIRCONIUM BASE ALLOYS, RADIATION EFFECTS
RADIATION EFFECTS IN NONFUEL MATERIALS 67-11 M16-80472

ZIRCONIUM BASE ALLOYS, REACTIONS /CHEMICAL/
HYDROGEN ABSORPTION AND ITS DISTRIBUTION IN ZIRCONIUM ALLOYS FOR CLADDING MATERIAL OF LIGHT-WATER POWER REACTOR 67-05 M14-69882
METAL--WATER REACTIONS 67-09 M14-77320
ABSORPTION OF GASEOUS HYDROGEN BY ZIRCALLOY-2 67-11 M14-80309

ZIRCONIUM BASE ALLOYS, REFINING
STUDY OF THE DRY CHEMICAL TREATMENT OF URANIUM-ZIRCONIUM FUELS 67-02 M03-59420

ZIRCONIUM BASE ALLOYS, SPECTRUM ANALYSIS
ELECTRON STRUCTURE OF ALLOYS OF THE CB-ZR SYSTEM 67-06 M16-71475

ZIRCONIUM BASE ALLOYS, SUPERCONDUCTIVITY
PREPARATION AND INVESTIGATION OF SUPERCONDUCTING NIOBIUM-ZIRCONIUM WIRE 67-02 M15-60799
SUPERCONDUCTING NIOBIUM ALLOYS WITH ZIRCONIUM AND EFFECT OF HEAT TREATMENT ON THEIR PROPERTIES 67-02 M15-60892
SUPERCONDUCTIVITY IN AGED ZIRCONIUM-NIOBIUM ALLOYS 67-03 M15-65089
BREAKDOWN OF SUPERCONDUCTIVITY IN AN ALLOY WITH A DISPERSE SUPERCONDUCTIVE PHASE 67-04 M16-67635
DETERMINING OPTIMUM CONDITIONS FOR HEAT TREATING SUPERCONDUCTING NB-75 PER CENT ZR ALLOY 67-05 M15-69658
EFFECT OF STATE OF MATRIX ON THE PROPERTIES OF AN ALLOY WITH A DISPERSED SUPERCONDUCTING PHASE 67-05 M16-69672
STRUCTURE OF ZR-4 PER CENT NB ALLOY AND ITS EFFECT ON THE CRITICAL PARAMETERS OF SUPERCONDUCTIVITY 67-09 M16-77769
EFFECT OF OXYGEN IMPURITY ON THE STRUCTURE AND SUPERCONDUCTING PROPERTIES OF ZIRCONIUM-NIOBIUM ALLOYS 67-10 M15-79629
EFFECT OF VANADIUM ADDITIONS ON THE STRUCTURE AND SUPERCONDUCTING PROPERTIES OF NIOBIUM-ZIRCONIUM ALLOYS 67-12 M16-82419
EFFECTS OF LOW-TEMPERATURE AGING ON THE RESISTIVE TRANSITION OF SUPERCONDUCTING 70ZR-30NB --CB-- IN PULSED MAGNETIC FIELDS 67-12 M16-82721

ZIRCONIUM BASE ALLOYS, THERMAL PROPERTIES
THERMAL EXPANSION OF SOLID SOLUTIONS OF REFRACTORY METALS OF THE 4, 5, AND 6 GROUPS IN THE PERIODIC TABLE 67-01 M15-58081
UO2/SHEATH HEAT TRANSFER DURING IRRADIATION 67-06 M15-70713
THERMAL EXPANSION OF SOLID SOLUTIONS OF METALS OF GROUPS VI, V AND IV OF THE PERIODIC SYSTEM WITH HIGH MELTING POINTS 67-08 M15-74995

ZIRCONIUM BASE ALLOYS, THERMODYNAMICS
THERMODYNAMIC PROPERTIES OF THE GAMMA PHASE OF THE URANIUM-ZIRCONIUM SYSTEM 67-06 M15-70946

ZIRCONIUM BASE ALLOYS, WELDING
QUALITY OF RESISTANCE BUTT WELDED ZIRCONIUM ALLOY TUBES 67-04 M11-67809
PROPERTIES OF ANNULAR SEAM WELDED JOINTS IN THIN WALLED TUBES OF ZIRCONIUM ALLOY 67-06 M11-70309
ELECTRON BEAM WELDING 67-10 M11-78797
PLATING STEEL TUBES WITH ZIRCALOY-2 TUBES BY SWAGING 67-11 M08-80384
PLASMA ARC WELDS THIN MATERIALS FAST 67-11 M11-80524
MATERIAL AND WELDING PROBLEMS IN REACTOR CONSTRUCTION WITH EMPHASIS ON ELECTRON-BEAM WELDING 67-12 M11-83147
INVESTIGATION OF THE WELDING OF ZIRCONIUM ALLOYS 67-12 M11-83281

ZIRCONIUM COMPOUNDS, ALLOYING ADDITIVE
TECHNOLOGICAL CHARACTERISTICS OF W-NI-CU ALLOYS CONTAINING DISPERSED ZIRCONIUM DIOXIDE INCLUSIONS 67-10 M09-78991

ZIRCONIUM COMPOUNDS, ATOMIC PROPERTIES
BOND AND MOLECULAR POLARIZABILITIES, MEAN AMPLITUDES OF VIBRATION AND THERMODYNAMIC FUNCTIONS OF THORIUM OXIDE AND ZIRCONIUM OXIDE 67-09 M16-77526

ZIRCONIUM COMPOUNDS, BENEFICIATION
SOME FLOTATION TESTS ON ZIRCON AND OTHER BEACH SAND MINERALS 67-05 M02-69885

ZIRCONIUM COMPOUNDS, BINARY SYSTEMS
PHASE RELATIONS IN THE ZRO2-MGO SYSTEM 67-09 M14-76751

ZIRCONIUM COMPOUNDS, BONDING
PHOSPHATE BONDING OF ZIRCONIA 67-05 M05-69571

ZIRCONIUM COMPOUNDS, CERMETS
PREPARATION AND MICROSTRUCTURE OF CERMETS AL2O3-MO AND ZRO2-MO 67-02 M13-62112

ZIRCONIUM COMPOUNDS, COATING
THE FLAME SPRAYING OF NONMETALLIC PROTECTIVE COATINGS. PT. 8 67-05 M18-68923

ZIRCONIUM COMPOUNDS, COATINGS
THE EFFECTIVENESS OF SPRAYED CERAMIC FILMS AS A PROTECTION AGAINST OXIDATION OF STEEL 67-02 M18-60282
SOME PROPERTIES OF OXYACETYLENE FLAME FOR SPRAYING 67-12 M12-83389

ZIRCONIUM COMPOUNDS, COMPOSITE MATERIALS
PROPERTIES OF ZRB2-TAB2 ALLOYS CONTAINING CR 67-05 M09-68236
ZIRCONIUM COMPOUNDS, CORROSION
OXIDATION CHARACTERISTICS OF HAFNIUM AND ZIRCONIUM DIBORIDE 67-12 M18-82563
ZIRCONIUM COMPOUNDS, CRYSTAL GROWTH
TRANSPORT REACTIONS OF THE SILICIDES AND BORIDES OF TRANSITION METALS 67-03 M14-65184
ZIRCONIUM COMPOUNDS, CRYSTAL LATTICES
CRYSTAL MODIFICATIONS OF BINARY SYSTEMS CONTAINING MOLTEN ZIRCONIA AND SPRAYED BY ARC-PLASMA 67-07 M14-73301
EFFECT OF ACTIVITY OF ZRO2 ON ITS DENSIFICATION DURING HOT PRESSING 67-12 M05-81740
ZIRCONIUM COMPOUNDS, DIFFUSION
DETERMINING THE CARBON DIFFUSION COEFFICIENT IN ZIRCONIUM CARBIDE AT HIGH TEMPERATURES 67-02 M14-60668
DIFFUSION OF ZIRCONIUM IN ZIRCONIUM HYDRIDE 67-07 M14-72831
DETERMINATION OF THE DIFFUSION COEFFICIENT OF CARBON INTO ZIRCONIUM CARBIDE AT HIGH TEMPERATURES 67-07 M14-73104
ZIRCONIUM COMPOUNDS, DISTILLATION
THE ZRCL4-HFCL4 SYSTEM--SEPARATION OF ITS COMPONENTS BY RECTIFICATION 67-06 M03-71393
ZIRCONIUM COMPOUNDS, ELECTRIC HEATING ELEMENTS
HIGH-TEMPERATURE HEATERS OF NIOBIUM AND ZIRCONIUM CARBIDES 67-02 M09-61795
ZIRCONIUM COMPOUNDS, ELECTRICAL PROPERTIES
GALVANOMAGNETIC EFFECTS IN SINGLE-CRYSTAL ZRB2 67-03 M16-65393
SOME ELECTROPHYSICAL PROPERTIES OF NIOBIUM AND ZIRCONIUM CARBIDES IN THEIR HOMOGENEOUS REGIONS 67-06 M15-72041
INCORPORATION OF IONS IN ANODIC OXIDE FILMS ON ZIRCONIUM AND THEIR EFFECT ON FILM BEHAVIOR 67-07 M15-73459
THE DIELECTRIC CONSTANT OF ZIRCONIA 67-08 M15-76253
CHARACTER OF INTERACTION OF ZIRCONIUM CARBIDE WITH CESIUM VAPOR 67-09 M16-76764
ZIRCONIUM COMPOUNDS, HEAT TREATMENT
THE PREPARATION AND STRUCTURE OF ZRO2 SPHERES 67-08 M01-75993
ZIRCONIUM COMPOUNDS, MECHANICAL PROPERTIES
LOW-TEMPERATURE ELASTIC PROPERTIES OF ZRC AND TIC 67-01 M17-57116
THE DEVELOPMENT AND EVALUATION OF HYPEREUTECTIC CARBIDES 67-02 M05-60712
PLASTIC DEFORMATION OF REFRACTORY COMPOUNDS 67-02 M09-60184
ELASTIC PROPERTIES OF ZIRCONIUM CARBIDE 67-03 M17-65385
TUNDISH NOZZLE BRICKS FOR THE CONTINUOUS CASTING OF STEEL 67-06 M04-72276
INTERNAL FRICTION OF ZIRCONIUM DIOXIDE AT TEMPERATURES 20 TO 1250 C 67-09 M17-76777
PLASTIC STRAIN OF HIGH-MELTING POINT COMPOUNDS 67-09 M17-76917
ZIRCONIUM COMPOUNDS, NUCLEAR FUELS
PREPARATION OF UO2-PUO2-ZRO2 FUELS 67-09 M09-76339
ZIRCONIUM COMPOUNDS, OXIDATION
INVESTIGATION OF HIGH-TEMPERATURE OXIDATION OF 67-10 M18-79345
OXIDATION OF POWDER SPECIMENS OF ZIRCONIUM MONOCARBIDE FROM 450 TO 700 C. UNDER OXYGEN PRESSURES OF 10-3 TO 100 TORR 67-12 M03-83153
ZIRCONIUM COMPOUNDS, PHASES /STATE OF MATTER/
PHASE CHEMICAL ANALYSIS OF ALLOYS OF THE ZRO2-ZRC AND ZRO2-TIC SYSTEM 67-06 M14-69995
SOLID HYDRIDES 67-11 M16-80469
ZIRCONIUM COMPOUNDS, PHYSICAL PROPERTIES
MEASUREMENT OF THE THERMAL CONDUCTIVITY AND ELECTRICAL CONDUCTIVITY OF ZRC, HFC, NBC AND TAC AT HIGH TEMPERATURES 67-01 M15-58057
MELTING POINTS OF ZRC-HFC, TAC-ZRC AND TAC-HFC SYSTEMS 67-05 M15-68710
CHANGE IN THE ELECTRO- AND THERMOPHYSICAL PROPERTIES IN PSEUDOBINARY ALLOYS ZRCO.92-ZRNO.85 OF THE ZIRCONIUM-NITROGEN-CARBON SYSTEM 67-05 M15-68711
USE OF ZIRCONIUM OXIDE CERAMIC DIE NIBS FOR HOT EXTRUSION OF METALS 67-06 M07-71321
INFLUENCE OF STABILIZING ADDITIONS ON THERMAL STABILITY OF ZIRCONIA PARTS 67-06 M15-70566
SOME PROPERTIES OF PYROLYTIC CARBIDES AND NITRIDES OF GROUP 4 METALS 67-06 M15-71471
SOME PHYSICAL PROPERTIES OF ALLOYS OF THE ZRC-NBC AND TAC-HFC SYSTEMS 67-06 M15-71472
MELTING POINT IN SYSTEMS ZRC-HFC, TAC-ZRC, TAC-HFC 67-12 M15-82686
CHANGE IN THE ELECTRO- AND THERMOPHYSICAL PROPERTIES IN PSEUDOBINARY ALLOYS ALONG THE RAY ZRCO.92-ZRNO.85 OF THE ZIRCONIUM-NITROGEN-CARBON SYSTEM 67-12 M15-82687
SOME PROPERTIES OF PYROLYTIC CARBIDES AND NITRIDES OF GROUP 4 METALS 67-12 M15-82792
SOME PHYSICAL PROPERTIES OF ALLOYS OF THE SYSTEMS ZRC-NBC AND TAC-HFC 67-12 M15-82793
ZIRCONIUM COMPOUNDS, POWDER METALLURGY
PREPARATION OF ZIRCONIUM DIBORIDE 67-02 M03-61625
ATOMIZING TECHNIQUES AS AUXILIARY MEANS IN THE POWDER SINTERING PROCESS 67-02 M09-58932
INVESTIGATION OF THE SINTERING OF ALLOYS OF ZIRCONIUM DIBORIDE WITH MOLYBDENUM DISILICIDE 67-02 M09-60175
THE PREPARATION OF LOW-POROSITY SPECIMENS OF TITANIUM AND ZIRCONIUM HYDRIDES BY THE METHOD OF REACTIVE SINTERING 67-02 M09-62105
CARBOTHERMAL METHOD OF PREPARATION OF CHROMIUM, MOLYBDENUM AND ZIRCONIUM BORIDES 67-04 M09-66261
REGULARITIES OF SINTERING OF ZIRCONIUM DIBORIDE-MOLYBDENUM ALLOYS 67-06 M09-70959
PREPARATION OF THIN PLATES FROM REFRACTORY CARBIDES 67-09 M09-76840
SINTERING OF ALLOYS OF ZIRCONIUM DIBORIDE WITH MOLYBDENUM DISILICIDE 67-09 M09-76908
HOT PRESSING OF BERYLLIA AND ZIRCONIA 67-09 M09-77474
CARBOTHERMIC METHOD OF PREPARATION OF CHROMIUM, MOLYBDENUM, AND ZIRCONIUM BORIDES 67-10 M09-78993
LARGE PARTS OF REFRACTORY CARBIDES 67-10 M09-79580
INVESTIGATION OF SINTERING OF LOOSE POWDERS OF TIC AND ZRC 67-12 M09-83552
ZIRCONIUM COMPOUNDS, PRECIPITATION
THE ORIENTATION OF ZIRCONIUM HYDRIDE ON GRAIN BOUNDARIES IN ZIRCALOY-2 67-07 M13-74226
ZIRCONIUM COMPOUNDS, PRESSING
INVESTIGATION OF ZIRCONIUM ANHYDRIDE PACKING DURING HOT PRESSING 67-08 M09-74305
ZIRCONIUM COMPOUNDS, QUATERNARY SYSTEMS
PHASE RELATIONS IN THE SYSTEM FEO-FE2O3-ZRO2-SIO2 67-07 M14-72826
ZIRCONIUM COMPOUNDS, REACTIONS /CHEMICAL/
STUDY OF HIGH-TEMPERATURE INTERACTION IN THE TIC-ZRO2 SYSTEM 67-03 M15-65912
THE NATURE OF THE INTERACTION OF ZIRCONIUM DIOXIDE WITH TITANIUM, NIOBIUM AND CHROMIUM CARBIDES 67-06 M14-71101
STABILITY OF THE HYDRIDES OF CERTAIN TRANSITION METALS WHEN HEATED IN VACUUM 67-06 M15-70160
REFRACTORIES IN HYDROGEN ATMOSPHERES 67-07 M14-74012
ZIRCONIUM COMPOUNDS, REDUCTION /CHEMICAL/
DECOMPOSITION MECHANISM OF ZIRCON IN SINTERING WITH PRODUCTS OF REDUCTION OF SODIUM SULFATE WITH CARBON 67-05 M14-69263
EXAMPLES OF APPLICATION OF THE ELECTRON BOMBARDMENT FURNACE IN METALLURGICAL CHEMISTRY 67-09 M03-77831
ZIRCONIUM COMPOUNDS, REFINING
READYING THE SWITCH TO ZIRCONIUM 67-07 M03-73212
ZIRCONIUM COMPOUNDS, SINTERING
INVESTIGATION OF SINTERING AND PROPERTIES OF SOLID SOLUTIONS OF TIC AND ZRC CARBIDES WITH NBC 67-08 M09-74306
ZIRCONIUM COMPOUNDS, SUPERCONDUCTIVITY
NATURE, SIZE AND DISTRIBUTION OF LATTICE DEFECTS AND THEIR INFLUENCE ON THE HIGH-FIELD PROPERTIES OF THE TYPE 3 SUPERCONDUCTOR NB-ZR 25 67-06 M16-71728
ZIRCONIUM COMPOUNDS, SURFACE PROPERTIES
METALLOGRAPHIC INVESTIGATION OF WETTABILITY SPECIMENS 67-07 M15-74276
ZIRCONIUM COMPOUNDS, SYNTHESIS
PREPARATION OF PURE ZIRCONYL COMPOUNDS FROM ZIRCON CAUSTIC FRIT 67-07 M02-73823
ZIRCONIUM COMPOUNDS, TERNARY SYSTEMS
ALLOY COMPOSITIONS OF HFB2 WITH URANIUM AND

TRANSITION METAL BORIDES 67-04 M14-67453
PHASE EQUILIBRIUM IN THE SYSTEM PBO-TIO2-ZRO2 67-07 M14-72825
CONDENSED PHASE RELATIONS IN THE SYSTEMS ZRO2-WO2-WO3 AND HFO2-WO2-WO3 67-08 M13-76093

ZIRCONIUM COMPOUNDS, THERMAL PROPERTIES
A USEFUL RELATIONSHIP BETWEEN ATOMIC VIBRATION AMPLITUDES AND THERMAL EXPANSION FOR CUBIC SOLIDS 67-02 M15-59099
HIGH-TEMPERATURE THERMAL EXPANSION OF CERTAIN GROUP 4 AND GROUP 5 DIBORIDES 67-06 M15-71162
ENTHALPY AND HEAT CAPACITY OF ZIRCONIUM DIOXIDE IN THE TEMPERATURE INTERVAL 1100-2500 K 67-09 M15-76773
THERMODYNAMICS OF THE INTERACTION OF ZRO2, MGO AND CAO WITH REFRACTORY METALS 67-12 M15-81741

ZIRCONIUM COMPOUNDS, THERMODYNAMICS
REVIEW OF THE SCIENCE OF CERAMIC MATERIALS 67-02 M05-60702
THERMODYNAMIC PROPERTIES OF ZIRCONIUM AND HAFNIUM CARBIDES OVER THE RANGE 298 TO 2500 K 67-05 M15-68706
VAPOR PRESSURE AND HEAT OF SUBLIMATION OF ZIRCONIUM AND HAFNIUM TETRACHLORIDES 67-09 M15-76582
ENTHALPY AND THERMAL CAPACITY OF NIOBIUM AND ZIRCONIUM CARBIDES AT 500 TO 2400 K 67-09 M15-76765
THERMODYNAMIC PROPERTIES OF ZIRCONIUM AND HAFNIUM CARBIDES IN THE RANGE 298-2500 K 67-12 M15-82682

ZIRCONIUM COMPOUNDS, THIN FILMS
DEFORMATION OF ANODIC OXIDE FILMS 67-02 M17-61764

ZIRCONIUM COMPOUNDS, TRANSPORT PROPERTIES
ON THE NATURE OF HEAT CONDUCTIVITY OF CARBIDES OF SOME TRANSITION METALS OF GROUPS 4 AND 5 67-06 M15-71470
VACUUM THERMIONIC WORK FUNCTIONS AND THERMAL STABILITY OF TAB2, ZRC, MO2C, MOSI2, TASI2 AND WSI2 67-08 M16-75125
NATURE OF THE THERMAL CONDUCTIVITY IN THE CARBIDES OF SOME TRANSITION METALS OF GROUPS 4 AND 5 67-12 M15-82791

ZIRCONIUM COMPOUNDS, X RAY DIFFRACTION
DIFFUSE X-RAY SCATTERING BY THE SOLID SOLUTION HFC-ZRC 67-02 M09-61167

ZONE MELTING
APPLICATION OF THE ZONE MELTING METHOD TO THE PURIFICATION OF ZIRCONIUM AND STUDY OF CERTAIN PROPERTIES OF THE METAL THUS PURIFIED 67-01 M03-58378
AN APPARATUS FOR ELECTRON BEAM FLOATING ZONE REFINING 67-01 M03-58693
PURITY OF BORON PRODUCED BY THE DECOMPOSITION OF DIBORANE AND SUBSEQUENT ZONE-MELTING 67-01 M05-58403
NEW ELECTRON BEAM OPTICS FOR THE PREPARATION OF INSULATING CRYSTALS BY THE FLOATING ZONE METHOD 67-01 M14-57948
FLOATING-ZONE REFINING BY ELECTRON BOMBARDMENT 67-01 M14-57982
CONTINUOUS HORIZONTAL ZONE REFINING APPARATUS 67-02 M03-60696
ZONE REFINING OF MAGNESIUM 67-02 M03-60732
PURIFICATION OF COPPER BY THE ZONE MELTING METHOD 67-02 M03-60819
GROWING AND REFINING YTTRIUM SINGLE CRYSTALS 67-02 M03-61942
CONTINUOUS ZONE-TRANSPORT REFINEMENT IN SINGLE-SECTION APPARATUS 67-02 M03-62246
NEW PREPARATIONS OF HIGH-PURITY MAGNESIUM BY ZONE MELTING 67-02 M06-60555
PREPARATION OF HIGH-PURITY BERYLLIUM 67-03 M03-65240
INFLUENCE OF AN ELECTRIC FIELD ON THE PURIFICATION OF METALS BY ZONE MELTING--APPLICATION TO PURIFICATION OF BERYLLIUM 67-03 M03-65245
INTERACTION OF IMPURITIES DURING PURIFICATION BY ZONE MELTING--APPLICATION TO THE IMPROVEMENT OF THE PURIFICATION OF BERYLLIUM BY SCAVENGERS 67-03 M03-65246
EFFECT OF HYDROGEN ON THE DUCTILITY OF BERYLLIUM PURIFIED BY ZONE MELTING 67-03 M17-65244
OBTAINING SINGLE CRYSTALS OF IRON ALLOYED WITH SILICON BY THE NONCRUCIBLE ZONAL MELTING METHOD 67-04 M14-66024
PREPARATION OF INAS AND GAAS SINGLE CRYSTALS 67-04 M14-67441
METALLURGY IN THE SEMICONDUCTOR INDUSTRY 67-04 M16-68044
METHODS OF DETERMINING THE EFFECTIVE IMPURITY DISTRIBUTION COEFFICIENT ON CRYSTALLIZATION OF A MELT. PT. 2. ZONE MELTING 67-05 M03-68839
STUDY OF CONDITIONS OF ZONE RECRYSTALLIZATION OF MG 67-05 M03-68963
PROBLEM OF ALLOYING SINGLE CRYSTALS WITH A SOLID ADDITIVE IN THE NONCRUCIBLE ZONE IN A VACUUM 67-05 M03-69251
PURIFYING TELLURIUM BY ZONE MELTING 67-05 M03-69538
THE FLOATING ZONE MELTING OF REFRACTORY METALS BY ELECTRON BEAM BOMBARDMENT. PT. 6. THE ELECTRON BEAM MELTING OF REFRACTORY METALS 67-05 M03-69855
SOME PROPERTIES OF FLOATING ZONE MELTED MO, W AND TA. PT. 7. THE ELECTRON BEAM MELTING OF REFRACTORY METALS 67-05 M17-69856
APPARATUS FOR OBTAINING PURE METALS BY ZONAL MELTING ASSISTED BY AN ELECTRIC ARC 67-06 M03-70919
RECRYSTALLIZATION OF GERMANIUM THIN FILMS ON INSULATING SUBSTRATES BY ELECTRON BEAM ZONE MELTING 67-06 M16-72178
DISTRIBUTION OF IMPURITIES IN ELECTRON BEAM MELTED INGOTS 67-07 M03-73420
THE RECIPROCAL INFLUENCES OF SOME TE IMPURITIES UPON THEIR SEGREGATIONIST BEHAVIOR 67-07 M03-73834
PRODUCTION AND PURITY CONTROL OF TUNGSTEN AND MOLYBDENUM SINGLE CRYSTALS 67-08 M01-75875
CALCULATING OPTIMUM CONDITIONS FOR ZONE MELTING 67-08 M03-75876
PRODUCTION AND PROPERTIES OF MONOCRYSTALS OF HIGH-MELTING METALS AND ALLOYS 67-08 M14-75024
THE THEORY OF STABILITY DURING TEMPERATURE GRADIENT ZONE MELTING 67-08 M14-75230
TECHNIQUES FOR THE GROWTH OF LARGE SINGLE CRYSTALS OF POTASSIUM OF HIGH PURITY 67-08 M14-75668
THE PRODUCTION OF HIGH PURITY LEAD 67-09 M03-76619
STUDY OF ZONAL RECRYSTALLIZATION OF TELLURIUM 67-09 M03-76875
INVESTIGATION OF THE DEEP REFINEMENT OF CADMIUM AND ZINC BY RECTIFICATION AND ZONE MELTING 67-09 M03-76982
INFLUENCE OF CALCIUM ON BEHAVIOR OF LEAD AND TIN IMPURITIES DURING ZONE REFINING OF ALUMINUM 67-09 M03-77116
HIGH-PURITY SILICON 67-09 M03-78295
ZONE MELTING OF LEAD TELLURIDE 67-09 M14-76849
THE PRODUCTION OF MERCURY TELLURIDE MONOCRYSTALS 67-09 M14-76936
RADIATION HEATER FOR FLOATING-ZONE REFINING 67-10 M03-79646
EFFECT OF IMPURITY SEGREGATION DURING CONTROLLED CRYSTALLIZATION OF TIN 67-10 M13-79143
CRYSTALLIZATION FRONT IN ELECTRIC-ARC ZONE MELTING 67-10 M14-79631
ZONE MELTING OF BERYLLIUM AND PULLING FROM THE MELT 67-11 M03-81157
ASSEMBLY FOR ZONE REFINING OF REFRACTORY METALS 67-11 M03-81324
SIGNIFICANCE OF THE DISTRIBUTION COEFFICIENT IN THE REFINING OF IRON 67-11 M13-80212
PRODUCTION OF THERMOELECTRIC MATERIALS BASED ON BI2TE3 SOLID SOLUTION OF BI2TE3-SB2TE3 WITH A GIVEN DISTRIBUTION OF IMPURITIES 67-11 M16-81317
PRECONCENTRATION IN TRACE ANALYSIS 67-11 M19-80139
PURITY OF METALS ATTAINS 99.99999 PER CENT 67-12 M03-81940
ZONE REFINING OF MOLYBDENUM 67-12 M03-82112
SOME FEATURES OF ELECTRON-BEAM ZONE REFINING OF METALS 67-12 M03-82113
DETERMINATION OF THE EQUILIBRIUM COEFFICIENTS OF IMPURITY DISTRIBUTION IN BISMUTH 67-12 M03-82408
LIQUID ENCAPSULATION ZONE REFINING --LEZOR-- 67-12 M03-82461
PURIFICATION OF ELECTROLYTIC ALUMINUM BY ZONE REFINING 67-12 M03-82510
HIGH-EFFICIENCY PURIFICATION OF SINGLY ELECTROLYZED AL BY ZONE REFINING 67-12 M03-82511
THE EFFECT OF AN ELECTRIC FIELD UPON SOLUTE REDISTRIBUTION DURING SOLIDIFICATION OF BI-SN ALLOYS 67-12 M14-82968

ZONE MELTING

ZONE REFINING
SEE ZONE MELTING

AUTHOR INDEX

AARONSON H I.....67-04 M14-66538
ABAKAROV S A.....67-03 M16-65459
ABAKUMOV B M.....67-04 M15-67374
.....67-06 M15-72370
ABBASOV A S.....67-11 M15-80159
ABBASOV M I.....67-02 M06-61194
ABBOTT K H.....67-01 M17-58603
ABBOTT K J.....67-04 M07-67371
.....67-07 M07-72759
ABDEL AZIZ H A.....67-03 M17-65172
ABDEL AZIZ K.....67-12 M15-82402
ABDEL FATTAH.....67-10 M04-79098
ABDIEV S.....67-02 M15-61658
ABDINOV D SH.....67-01 M15-58641
ABDINOVA S G.....67-12 M16-82014
ABDULLAEV CH G.....67-02 M09-62208
ABDULLAEV G B.....67-08 M16-75218
.....67-10 M15-79004
.....67-11 M15-80622
ABDULLAYEV G B.....67-01 M15-58641
.....67-01 M16-58642
ABDULLOV YU P.....67-07 M07-73475
ABDULOV YU P.....67-02 M07-62266
.....67-04 M07-67612
ABDURAKHMANOVA A A.....67-02 M15-61521
.....67-08 M15-75237
ABDUSALYAMOVA M N.....67-02 M03-60730
ABE HIDEO.....67-09 M14-77253
ABE KAZUTAKA.....67-02 M20-60040
.....67-04 M17-67515
ABE MASAMI.....67-08 M18-74679
ABE MITSUYUKI.....67-02 M18-59144
ABE SHUNYA.....67-08 M15-74439
ABE TAKASHI.....67-08 M17-75808
ABE TAKEJI.....67-01 M17-57586
.....67-05 M14-68467
ABE TAKESHI.....67-08 M15-74431
ABE YOSHIHIKO.....67-01 M06-58741
ABEL A.....67-02 M17-60637
.....67-02 M17-60638
.....67-03 M14-65722
ABELEDO CARLOS R.....67-11 M15-81669
ABELES B.....67-06 M16-70636
ABELOVSZKY LASZLO.....67-12 M19-82903
ABERNETHY T F.....67-03 M12-65665
ABISHEV D N.....67-10 M13-80062
ABISHEVA R U.....67-02 M03-61717
ABLANOV A D.....67-10 M03-79870
ABLONCZY G S.....67-09 M02-76730
ABOAF J A.....67-12 M12-82459
ABOU HELAL H E.....67-08 M13-75001
ABRAAMOV YU S.....67-05 M17-68558
ABRAHAMS M S.....67-07 M14-72650
ABRAHAMSON E P 2.....67-03 M17-65339
.....67-06 M14-71616
ABRAKEN L.....67-10 M17-79212
ABRALOV M A.....67-05 M11-69405
.....67-10 M11-78509
ABRAMOV A A.....67-01 M03-58066
.....67-02 M14-60088
.....67-06 M02-71128
.....67-06 M10-71263
.....67-08 M02-75086
.....67-08 M10-75732
.....67-09 M02-77109
.....67-12 M06-82613
ABRAMOV A T.....67-08 M11-74380
.....67-12 M11-82253
ABRAMOV A YA.....67-02 M17-60897
ABRAMOV D S.....67-06 M03-70947
ABRAMOV N A.....67-01 M03-57270
ABRAMOV V A.....67-04 M11-67015
.....67-08 M11-74774
ABRAMOV V V.....67-01 M17-57664
.....67-02 M17-62154
.....67-04 M17-68196
.....67-12 M17-82193
ABRAMOV V YA.....67-01 M02-57274
.....67-02 M02-60959
ABRAMOVA Z A.....67-05 M17-68365
ABRAMOVICH E B.....67-02 M09-62054
ABRAMS H.....67-09 M12-77142
ABRAMYAN A V.....67-08 M09-75458
ABRAMYAN E A.....67-03 M17-65790
ABRIKOSOV N KH.....67-02 M13-58870
.....67-06 M13-71119
.....67-11 M15-80170
.....67-12 M13-83352
ABRIKOSOVA N KH.....67-05 M13-69230
ABROSIMOV E V.....67-02 M04-61210
.....67-06 M04-71247
.....67-07 M17-73002
.....67-08 M04-74328
.....67-08 M04-74329
.....67-08 M04-75716
ABROSIMOV V P.....67-02 M11-61269
.....67-05 M11-68269
ABU ZAHRA R H.....67-04 M18-66691
ABUKU SEIICHI.....67-11 M15-81472
ABUSINOV A.....67-05 M17-69252
ACCARY A.....67-05 M14-68563
.....67-05 M17-68667
ACHE R P.....67-04 M11-67624
ACHENBACH D.....67-10 M08-79383
ACHENBACH M.....67-02 M11-59814
.....67-04 M11-66883
ACHIWA NORIO.....67-03 M15-65637
.....67-05 M15-69755
ACHLER HOWARD S.....67-10 M08-79537
ACHTELIK KARL.....67-09 M17-76508
ACHTER M R.....67-03 M14-65090
.....67-12 M17-82976
ACKERMAN ARNOLD W.....67-02 M07-59005
ACKERMANN WILFRIED.....67-07 M04-72476
.....67-07 M04-72719
.....67-07 M19-72703
.....67-07 M19-72704
.....67-08 M14-75659
.....67-09 M19-77190
ACKET G A.....67-05 M16-69376
ACKLAND R G.....67-08 M19-74513
ACUNCIUS D S.....67-11 M16-80463
ADACHI A.....67-06 M13-72280
ADACHI AKIRA.....67-01 M04-58597
.....67-02 M13-60623
.....67-02 M14-60156
.....67-06 M14-70789
.....67-06 M14-72073
.....67-06 M15-72071
ADACHI EIICHI.....67-08 M16-75131
ADACHI M.....67-02 M14-61776
.....67-08 M13-75139
ADACHI MASAO.....67-02 M17-59989
.....67-04 M01-67571
.....67-09 M17-77987
.....67-09 M17-77988
ADAIR A M.....67-03 M17-65093
ADAKHOVSKII A P.....67-05 M19-69306
ADAMEC ALFRED.....67-06 M06-71094
.....67-11 M06-80369
ADAMENKO A A.....67-06 M16-71477
.....67-09 M15-77071
.....67-11 M15-80633
.....67-12 M16-82798
ADAMESKU R A.....67-04 M14-67614
ADAMJAN V E.....67-01 M16-57956
ADAMOV I V.....67-11 M17-81663
ADAMOV S A.....67-10 M02-80047
ADAMS C M JR.....67-06 M11-70136
ADAMS CLYDE M JR.....67-02 M15-61598
ADAMS J A.....67-07 M11-74280
ADAMS K H.....67-02 M13-61082
.....67-11 M13-81540
ADAMS L H.....67-11 M18-80695
ADAMS M A.....67-06 M10-71942
ADAMS M F.....67-01 M10-57980
ADAMS P D.....67-07 M15-74243
ADAMS R P.....67-09 M14-77690

ADAMSKI C.....67-06 M19-72155
ADAMSON K C.....67-10 M18-80011
ADAMSON R B.....67-12 M17-82971
ADAMYAN V E.....67-07 M15-73704
ADDA MATHIE.....67-07 M14-73749
ADDA Y.....67-01 M13-57171
.....67-01 M14-58024
.....67-01 M14-58025
.....67-03 M15-65257
.....67-03 M16-65263
.....67-03 M17-65269
.....67-04 M14-66300
.....67-04 M14-67298
.....67-07 M14-73749
ADDIE J W.....67-01 M19-57976
ADDINALL R L.....67-03 M04-65529
ADDINK N W H.....67-11 M19-80134
ADDISON C C.....67-01 M15-58653
.....67-05 M14-69279
.....67-08 M14-75555
ADELSBERG L M.....67-01 M14-57426
.....67-02 M05-61089
.....67-12 M14-82878
.....67-12 M18-82568
ADENIS D.....67-04 M10-67726
.....67-07 M17-73755
ADERIKHIN A S.....67-05 M01-69244
ADIROVICH E I.....67-06 M16-71761
.....67-06 M16-71919
ADLER ARTHUR.....67-05 M09-68944
ADLER DAVID.....67-07 M16-73947
ADLER G.....67-10 M08-79974
ADLER J G.....67-07 M16-73312
ADLER P N.....67-04 M14-66050
ADLER R P I.....67-06 M13-71089
.....67-06 M17-71426
ADLER RALPH P I.....67-12 M13-82541
.....67-12 M13-82736
ADLER YU P.....67-02 M03-62247
.....67-05 M10-68971
.....67-06 M17-72120
ADOMENAS A.....67-07 M05-72541
ADOYAN G A.....67-04 M06-66422
.....67-04 M17-67948
.....67-12 M10-81775
ADREEV G V.....67-09 M04-76885
ADUGINA N A.....67-07 M18-72872
ADWICK A G.....67-09 M09-76337
ADZHIEV G R.....67-06 M02-70733
AFANASEV G A.....67-10 M19-78969
AFANASEV L N.....67-08 M09-74906
AFANASEV S G.....67-01 M04-57695
.....67-01 M17-57671
.....67-02 M04-61954
.....67-04 M04-66204
.....67-04 M04-66704
.....67-04 M04-66706
.....67-04 M04-67772
.....67-04 M04-68181
.....67-05 M04-69678
.....67-07 M04-74064
AFANASEV S V.....67-08 M14-75266
AFANASEV V D.....67-10 M11-78433
.....67-12 M11-83431
AFANASEV V F.....67-08 M17-75853
.....67-12 M17-82195
AFANASEV V I.....67-06 M13-72363
AFANASEV V N.....67-04 M11-66460
AFANASEVA V V.....67-10 M12-78541
AFANASYEV S G.....67-02 M04-62139
AFANASYEV V F.....67-02 M09-60977
AFANASYEV V G.....67-02 M09-61708
AFANASYEV V N.....67-02 M11-59511
AFANASYEVA L A.....67-05 M15-68850
.....67-08 M15-74631
AFANASYEVA L I.....67-04 M16-67387
AFANASYUK I N.....67-12 M06-82614
AFANSYEV YU I.....67-06 M04-70275
AFANSYEVA L A.....67-04 M15-67911
AFMAN H B.....67-04 M16-66531
AFONIN V T.....67-02 M04-61957
.....67-04 M04-67775
AFONINA V M.....67-10 M01-78942
AFONKIN V G.....67-11 M19-81210
AFONSKIY I F.....67-12 M17-83527
AGA M I.....67-08 M06-74543
AGABIO G.....67-09 M10-78294
AGAEV K A.....67-06 M13-71186
.....67-10 M13-79355
AGAEV YA.....67-06 M16-70874
AGAFONOV N G.....67-04 M12-66572
.....67-09 M11-78120
AGAFONOVA S.....67-12 M02-83444
AGALOV I K.....67-09 M10-76413
AGAMALOVA L L.....67-04 M08-66592
AGANOVA E V.....67-09 M13-77774
AGAPOC G I.....67-02 M11-60840
AGAPOV G I.....67-04 M11-67997
AGAPOV V F.....67-03 M05-65303
.....67-05 M04-69682
.....67-07 M04-74068
.....67-12 M04-81865
AGAPOVA V A.....67-02 M14-61180
AGAPOVA YE V.....67-02 M13-61924
AGARKOVA N A.....67-04 M04-66211
AGARONIK V YA.....67-05 M20-69233
AGARWAL J C.....67-03 M02-65803
.....67-08 M04-74467
AGARWALA R P.....67-02 M14-61077
.....67-11 M14-81597
.....67-12 M14-82378
AGARWALA V S.....67-03 M18-65474
.....67-08 M18-75063
.....67-08 M18-75642
AGEEV G A.....67-09 M15-77637
.....67-11 M15-80925
AGEEV L M.....67-08 M07-75879
.....67-09 M07-77129
AGEEV N V.....67-01 M16-58138
.....67-01 M17-58293
.....67-05 M13-68208
.....67-06 M13-69989
.....67-06 M13-70951
.....67-08 M17-74962
AGEEVA A G.....67-06 M14-70074
.....67-10 M14-78820
AGEEVA I N.....67-01 M14-58053
.....67-01 M17-58052
AGEEVA V A.....67-01 M17-58056
AGEEVA V S.....67-12 M09-83558
AGEYEV L M.....67-02 M17-61558
AGEYEV N V.....67-02 M14-60291
.....67-02 M17-62234
.....67-12 M17-82120
AGGERMANN WOLFGANG.....67-09 M07-76504
AGLADZE R I.....67-08 M03-74478
.....67-11 M02-80457
.....67-11 M03-80425
.....67-11 M03-80426
.....67-11 M03-80427
.....67-11 M03-80429
.....67-11 M03-80430
.....67-11 M03-80435
.....67-11 M03-80454
.....67-11 M12-80446
AGLADZE T R.....67-11 M15-81280
AGNESONE F.....67-07 M19-73208
AGNOFF CHARLES.....67-12 M20-82468
AGOSHKIN N G.....67-05 M14-68255
.....67-08 M14-75883
.....67-09 M17-77371
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ARMSON F J.....67-10 M19-79774
ARMSTROFF OTTOMAR.....67-11 M07-81375
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ASTSATUROV V N.....67-06 M10-70299
ASVIYAN M B.....67-03 M17-65074
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ATANASIU GH.....67-07 M04-72975
ATEN A C.....67-10 M15-79120
ATHERTON DAVID.....67-11 M16-80333
ATKIN H P.....67-07 M09-73721
ATKIN HOWARD P.....67-04 M09-66649
ATKINS A G.....67-02 M17-61291
ATKINSON C.....67-06 M17-70645
ATKINSON E B.....67-09 M12-77539
ATKINSON M.....67-06 M17-71897
ATLAS L M.....67-09 M14-76348
ATMANSKII A I.....67-02 M03-62053
ATOJI M.....67-01 M16-58639
ATOJI MASAO.....67-11 M13-81572
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ATSUYA IKUO.....67-08 M19-74421
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ATTA M A.....67-08 M15-74394
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ATTARDO M.....67-01 M16-57562
ATTARDO M J.....67-02 M14-61596
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.....67-12 M13-82521
ATTERMO R.....67-07 M17-72673
ATTIA E A.....67-07 M13-73983
AUBAUER HANS P.....67-07 M16-73941
AUBOIN G.....67-03 M19-65253
AUBREY J E.....67-10 M14-78673
AUBRY JACQUES.....67-09 M14-76457
AUCOUTURIER MARC.....67-04 M14-67562
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AUERBACH A.....67-02 M07-62068
AUERBACH B L.....67-11 M17-81389
AUGE PETER.....67-03 M02-65203
AUGLAND B.....67-05 M14-69749
AUGUST C.....67-10 M16-78727
AUGUSTINIK A I.....67-10 M14-79347
AULEYTNER J.....67-08 M16-75239
AULEYTNER JULIAN.....67-06 M13-71807
AULT G MERVIN.....67-06 M07-70124
AULT R T.....67-06 M17-71081
AUNGST R C.....67-07 M17-73400
AURINI T D.....67-04 M04-66731
AUSKERN A B.....67-12 M15-82364
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AUST K T.....67-01 M18-58470
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.....67-12 M18-83054
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AUSTIN R J.....67-04 M17-66535
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AUTLER S H.....67-06 M16-71789
AUZINS PETERIS V.....67-11 M16-81683
AVALIANI A SH.....67-04 M09-66962
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AVCHINNIKOV B E.....67-04 M17-67954
AVDDEV V P.....67-02 M04-61759
AVDEEV V P.....67-02 M04-61760
AVDEEVA L M.....67-06 M17-71121
AVDEEVA T I.....67-08 M03-76240
AVDEYEV V P.....67-02 M04-62280
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AVENHAUS RUDOLF.....67-01 M16-57450
AVERBACH B L.....67-02 M17-60646
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AVERBUCH M A.....67-09 M01-77832
AVERBUKH B A.....67-12 M12-82629
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AVERY D F.....67-11 M15-80303
AVERY D H.....67-06 M17-71604
AVERY H S.....67-06 M17-70529
AVERY L R.....67-08 M17-75367
AVETISOV G A.....67-09 M11-76886
AVGUSTINIK A I.....67-02 M13-60180
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.....67-05 M13-69492
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AVGUSTNIK A I.....67-02 M13-59666
AVINSKII P V.....67-10 M06-78884
AVITZUR B.....67-11 M17-81025
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AVRAAMOV YU S.....67-02 M15-60070
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AVRAMENKO I N.....67-12 M07-81870
AVRAMOV YU S.....67-04 M16-67656
AVRAT ZDENEK.....67-09 M04-76816
AVRINSKII P V.....67-02 M06-59175
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AVRUNIN P M.....67-10 M07-78432
.....67-12 M07-83430
AVTOMONOV I V.....67-12 M06-83044
AWAYA HIROSHI.....67-08 M18-76249
AXON H J.....67-07 M01-74267
AYEL MICHEL.....67-12 M13-82140
AYLWARD P T.....67-05 M18-69797
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AYTKHOZHIN E S.....67-01 M14-57358
AYURZANAIN B A.....67-04 M15-66481
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AZAM N.....67-03 M17-65554
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AZARENKO B S.....67-01 M07-57261
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AZAROFF LEONID V.....67-11 M14-81355
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AZHAZHA V M.....67-01 M17-58079
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AZIM SAMY ABDEL.....67-09 M14-78063
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AZIZOVA S KH.....67-06 M11-71650
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AZUMA K.....67-09 M16-77018

AZUMA TADASHI.....67-04 M19-67724

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BAACH H.....67-01 M11-58620
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BAAN S.....67-01 M13-57496
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BABAD ZAKHRYAPIN A A.....67-02 M14-60668
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.....67-11 M04-81462
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BACHMANN W T.....67-02 M18-61039
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BACHNER FRANK J.....67-01 M16-57408
BACIARELLI RENATO M.....67-03 M12-65016
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BACIGALUPI R J.....67-04 M16-67740
BACK A E.....67-08 M03-75311
BACKER L.....67-02 M17-60867
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.....67-12 M18-83511
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BACKOFEN W A.....67-04 M17-66682
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.....67-12 M17-83053
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BACON D J.....67-01 M13-57939
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BACQUIAS GUY.....67-02 M12-62287
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.....67-09 M12-77676
.....67-11 M12-81699
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BADASEN P P.....67-04 M11-67804
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BADAYEV V G.....67-02 M17-59885
BADER E I.....67-02 M17-61913
BADER GERHARD.....67-12 M01-82652
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BADIA MICHEL.....67-10 M14-79710
BADIOLA F.....67-12 M02-83586
BADOUX A.....67-04 M17-66152
BADTS A.....67-05 M07-68540
BADYAN A KH.....67-11 M20-81326
BAER HANS GUNTER.....67-02 M13-61896
BAER KARIN.....67-09 M08-78183
BAERLECKEN EWALD.....67-06 M17-70260
BAEVA Z P.....67-09 M03-77115
BAGAROV ST.....67-04 M03-67825
.....67-06 M05-70207
BAGARYATSKIY YU A.....67-12 M13-82118
BAGCHI D K.....67-07 M15-73505
BAGDAVADZE D I.....67-09 M03-76953
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BAICRY J.....67-03 M17-65276
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BAIER B.....67-11 M17-81162
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BAIJAL J.....67-01 M15-57967
.....67-10 M15-78718
BAIJAL U.....67-01 M15-57967
BAIJAL USHA.....67-10 M15-78718
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BAILEY D R.....67-03 M04-65540
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.....67-02 M01-61649
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BAILEY RALPH E.....67-03 M04-65533
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BAILLIE J G.....67-06 M11-70700
BAILLY F.....67-04 M15-66064
BAILON J P.....67-06 M17-71976
BAILYN M.....67-09 M15-77158
BAIMAKOV YU V.....67-02 M03-59647
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BAIMBETOV N B.....67-04 M15-67234
BAIN A S.....67-06 M15-70713
BAIN W R.....67-11 M02-81148
BAINBRIDGE WARD W.....67-06 M18-70710
BAINTON G W.....67-06 M09-70620
BAIRAMASHVILI I A.....67-04 M15-67829
.....67-04 M15-67831
BAIRAMOV B I.....67-07 M04-72853
BAIRD J D.....67-04 M14-67024
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.....67-06 M14-70814
BAJZA EDIT.....67-04 M18-66022
BAKAEV A M.....67-02 M03-60962
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BAKALIKOVA O.....67-04 M14-67755
BAKALYUK YA KH.....67-09 M12-76841
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.....67-10 M14-78820
BAKER A A.....67-03 M09-65210
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.....67-04 M17-67736
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BAKER A F.....67-07 M04-74113
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BAKHANOVA A A.....67-05 M17-68977
BAKHIREVA L D.....67-08 M03-75148
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BAKHMAN N.....67-12 M04-83413
BAKHRAKH L P.....67-04 M11-67801
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BAKHTAR F.....67-07 M07-74090
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BAKIEV A V.....67-01 M17-57644
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BAKINOV K G.....67-08 M02-74861
BAKISH ROBERT.....67-04 M20-66146
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BAKKER W T.....67-09 M05-76454
BAKLEV A V.....67-04 M11-67990
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.....67-07 M17-73965
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BAKSHUTOVA N D.....67-02 M03-62228
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BAKTUBAEVA S S.....67-10 M02-78418
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BAKUL VALENTIN N.....67-03 M08-65161
BAKULIN A V.....67-07 M18-73648
BAKUMENKO S P.....67-09 M04-76829
BAKUNOV V S.....67-06 M17-70565
BALABAN L.....67-10 M18-79746
BALABANOV YAKIM.....67-02 M03-59543
BALACHANDRA J.....67-06 M18-70231
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BALAK O S.....67-05 M03-69534
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BALAZS ENDRE.....67-09 M03-76881
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BOGDULIN G M.....67-06 M04-70147
BOGEGARD S.....67-09 M14-76305
BOGEMSKAYA E A.....67-05 M15-68406
BOGENSCHUTZ A F.....67-04 M12-67797
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.....67-12 M12-82460
BOGERS P.....67-08 M13-74942
BOGGS W E.....67-03 M14-65422
BOGMA A S.....67-06 M02-70118
BOGMA K K.....67-01 M15-57355
BOGOD YU A.....67-02 M15-59923
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.....67-10 M15-79022
BOGOLYUBOV V A.....67-04 M04-67776
BOGOLYUBOV V S.....67-07 M07-73003

BOGOMAT O V.....67-05 M03-68410
BOGOMOLOB V A.....67-04 M10-67622
BOGOMOLOV V N.....67-10 M15-79465
BOGOMOLOVA A S.....67-01 M11-58281
.....67-04 M11-67362
.....67-08 M11-75012
BOGOMOLOVA G P.....67-09 M13-76966
BOGORODSKII YU A.....67-01 M11-57255
BOGOSLOVSKAYA L N.....67-03 M05-65302
BOGOYAVLENSKAYA N V.....67-08 M12-75017
.....67-09 M12-76437
BOGOYAVLENSKII A F.....67-11 M14-81290
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BOGOYAVLENSKII V V.....67-11 M03-81435
BOGRAD S A.....67-04 M11-67013
.....67-08 M11-74772
BOGUSHEVSKII S F.....67-09 M11-77617
.....67-11 M11-80648
BOGUSLAVSKII E YE.....67-06 M02-70169
BOGUSLAVSKII I M.....67-06 M07-71394
BOGVERADZE D A.....67-11 M03-80431
BOHDANSKY J.....67-03 M15-65731
.....67-12 M15-81831
.....67-12 M15-82999
BOHM H.....67-03 M17-65129
.....67-04 M17-67465
.....67-07 M17-73403
BOHM H V.....67-02 M14-60921
BOHM K.....67-08 M07-75514
BOHM ZDENEK.....67-11 M04-81610
BOHMEIER HANS.....67-08 M03-74356
BOHMER S.....67-09 M04-77214
.....67-11 M04-80201
BOHN CAROLE W.....67-04 M12-68111
BOHN E M.....67-06 M14-71424
BOHN G.....67-07 M15-72947
BOHN GERHARD.....67-01 M16-58399
BOHN ZDENEK.....67-12 M04-81779
BOHNENKAMP K.....67-04 M18-67429
BOHNENKAMP KONRAD.....67-07 M10-73290
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BOICHENKO B M.....67-02 M04-61740
BOICHENKO M S.....67-04 M04-66853
BOICHENKO S M.....67-06 M07-70943
BOIDENKO V S.....67-02 M15-59955
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BOIKO I I.....67-02 M15-61522
BOIKO V R.....67-01 M11-57374
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BOIKO YU N.....67-04 M03-66973
.....67-06 M03-70143
BOISSEAU J P.....67-04 M10-67726
BOITSOV L I.....67-02 M09-60093
BOIVIN M.....67-10 M12-79806
BOJANOWSKA ANNA.....67-10 M03-79863
BOJARSKI Z.....67-11 M13-80419
.....67-11 M19-81628
BOJIC M.....67-02 M19-61961
BOJIC MILAN.....67-12 M18-82446
BOK TSOI TYA.....67-04 M17-67127
BOKAREVA N N.....67-02 M17-62234
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.....67-08 M14-75024
.....67-08 M17-75447
BOKASH V D.....67-08 M02-74880
BOKLEN RUDOLF.....67-06 M17-70036
BOKOV I I.....67-05 M17-68745
BOKOV L F.....67-08 M06-75190
BOKOVA L S.....67-04 M09-66841
BOKOVA R G.....67-09 M03-77754
BOKOVIKOV B A.....67-11 M04-81328
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.....67-11 M04-81458
BOKROS J C.....67-02 M15-59056
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BOKSHITSKII YA M.....67-11 M04-81453
BOKSHTEIN B S.....67-10 M14-79847
BOKSHTEIN S Z.....67-03 M14-65786
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.....67-12 M14-83310
BOKSHTEYN S Z.....67-02 M14-60292
.....67-02 M15-59763
.....67-12 M14-82170
BOKSTEIN S Z.....67-02 M14-62242
BOLEK PAVEL.....67-10 M08-79739
BOLGAR A S.....67-05 M15-68706
.....67-12 M15-82682

BOLGER D E.....67-07 M16-72916
BOLGOV I C.....67-11 M17-81167
BOLGOV I S.....67-01 M17-58079
BOLKOV N B.....67-10 M05-79817
BOLL R.....67-11 M15-80867
BOLLAND JAN.....67-11 M04-81626
BOLLENRATH F.....67-01 M17-57384
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.....67-05 M17-68514
.....67-05 M17-68526
.....67-06 M17-70599
.....67-06 M17-71513
.....67-07 M03-74157
.....67-10 M18-79985
.....67-12 M12-83148
BOLLENRATH FRANZ.....67-01 M17-57292
.....67-02 M17-59146
.....67-06 M17-71669
.....67-08 M17-75507
.....67-09 M14-76795
.....67-12 M17-82058
BOLLER CARL.....67-02 M17-60511
BOLLER H.....67-04 M14-67055
BOLLING G F.....67-01 M06-57427
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.....67-06 M17-72242
.....67-07 M13-73060
BOLONDZ F M.....67-12 M03-83317
BOLOTIN G A.....67-04 M15-67911
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BOLOTOV I E.....67-02 M14-59866
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BOLOTOV I YE.....67-02 M13-61938
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BOLOTOV YU G.....67-12 M17-81915
BOLOTOVA E P.....67-02 M01-61904
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BOLSAITIS P.....67-07 M14-73910
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BOLSHAKOV M V.....67-08 M11-74372
.....67-12 M11-82245
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BOLSHAKOVA L I.....67-07 M04-74130
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.....67-12 M15-82406
BOLSHAKOVA N K.....67-11 M04-81216
.....67-11 M04-81461
BOLSHANINA M A.....67-08 M17-74892
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BOLSHOVA K M.....67-05 M15-69396
BOLSHOVA N M.....67-04 M13-67982
BOLSHSKOVA L I.....67-02 M04-61737
BOLSHUTKIN D N.....67-02 M18-59896
BOLSHUTKIN L I.....67-02 M17-61939
BOLTAKS B I.....67-05 M16-69383
.....67-05 M16-69395
.....67-06 M16-70986
BOLTAROVICH A V.....67-01 M18-57667
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BOLTYREVA A A.....67-02 M03-60090
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BOLWELL A J.....67-03 M04-65485
BOMMEL H E.....67-02 M16-60528
.....67-02 M16-60529
BON GIR LI.....67-08 M17-76009
BONA C F.....67-07 M15-74250
BONANNO F R.....67-03 M14-65345
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BONAR K MARK.....67-09 M04-77967
BONAR L G.....67-03 M19-65010
BONATTI ERMINIO.....67-02 M20-59829
BONCH BRUEVICH A M.....67-04 M16-68009
BONCH V L.....67-07 M16-74204
BONCOEUR M.....67-11 M11-80245
BOND G C.....67-07 M14-72876
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.....67-09 M09-76912
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BONDAREV V N.....67-09 M18-76431
BONDAREV V V.....67-02 M11-59516
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BONDAREVA E P.....67-06 M03-71306
BONDAREVSKAYA E A.....67-04 M10-67961
BONDARUK B L.....67-10 M15-78958
BONDEREK Z.....67-06 M19-72155
BONDI PAOLO.....67-12 M19-83209
BONED J A.....67-12 M02-83202
BONEV STOYAN.....67-11 M04-81620
BONFIELD W.....67-07 M17-73760
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BONFIGLIOLI A F.....67-02 M14-58952
BONGERS P F.....67-06 M16-70578
BONING K.....67-08 M15-75648
BONIS L J.....67-02 M01-59101
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BONISSONI G.....67-02 M19-59163
BONISZEWSKI T.....67-08 M11-75751
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BONJOUR M M EMMANUEL.....67-12 M16-82509
BONNANO F R.....67-07 M09-73366
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BONNELLE C.....67-04 M14-67109
BONNENBERG DOROTHEE.....67-06 M16-72380
BONNER P B.....67-10 M11-78794
BONNER P E.....67-03 M18-65993
BONNIER E.....67-03 M15-65237
BONNIER ETIENNE.....67-12 M10-83106
.....67-12 M13-82472
.....67-12 M13-82697
.....67-12 M13-83199
BONNIVARD G.....67-02 M04-61962
.....67-02 M04-61993
BONOMI JEAN MARIE.....67-05 M10-69183
BONOMO F.....67-05 M17-69169
BONZEL H P.....67-08 M14-75221
BOOKER G R.....67-06 M13-71280
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.....67-09 M14-77521
BOOM R W.....67-07 M16-72628
BOON M H.....67-03 M17-65875
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BOONE D H.....67-08 M14-75978
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BOOS HERMANN.....67-08 M19-76288
BOOSS H J.....67-05 M14-68586
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BOOTH BRUCE L.....67-06 M16-71224
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BOOTH MICHAEL L.....67-07 M01-74260
BOOTH R.....67-11 M15-80188
BOR J.....67-06 M15-72089
BORBAS J J.....67-11 M15-80906
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BORBAT B F.....67-08 M03-76236
BORBAT V F.....67-02 M03-62046
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.....67-06 M03-71304
.....67-06 M03-71349
.....67-09 M03-77119
BORBE P CH.....67-10 M18-78466
BORBE PETER CHRISTIAN.....67-07 M18-72481
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.....67-11 M10-81030

BORCHERS HEINZ.....67-07 M13-73292
BORCHERT O.....67-06 M12-71275
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BORDES PAGES H.....67-09 M18-76336
BORDIN GIORGIO.....67-06 M15-70222
BORDON V A.....67-03 M12-65058
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BORIK F.....67-12 M14-82964
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BORIS PAUL.....67-12 M15-82072
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BORISENKO V A.....67-02 M17-60581
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.....67-12 M10-83438
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BORISOV S V.....67-05 M17-69614
BORISOV V A.....67-08 M17-74984
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BORISOV V I.....67-01 M14-57345
BORISOV V P.....67-06 M06-70479
BORISOV V T.....67-10 M14-78354
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.....67-10 M04-80041
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BORISOVA L G.....67-04 M10-66979
BORISOVA N B.....67-02 M15-59636
BORISOVA N V.....67-09 M13-76955
BORISOVA V I.....67-01 M15-57659
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BORKOVSKII YU Z.....67-02 M10-61949
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.....67-04 M14-66701
.....67-06 M14-71110
.....67-10 M14-79855
BORLAND D W.....67-05 M14-69728
BORMA K K.....67-12 M15-83305
BORN HORST.....67-07 M10-72715
BORN KURT.....67-08 M12-75788
BORNATSKII I I.....67-10 M07-79815
BORNSCHEUER FRIEDRICH W.....67-02 M17-59145
BOROBEV G M.....67-09 M13-77865
BORODIN D I.....67-09 M04-77857
BORODIN YU A.....67-05 M07-68553
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.....67-11 M07-80862
BORODINA N A.....67-06 M10-71125
BORODINA V A.....67-06 M02-71341
BORODULIN A I.....67-12 M04-83419
BORODULIN E K.....67-04 M15-66607
BOROK B A.....67-04 M06-67950
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.....67-08 M09-75466
BOROK V A.....67-08 M17-76010
BOROKOVSKII YU Z.....67-09 M10-76861
BOROLYUBOV V A.....67-02 M04-61958
BORONENKOV V N.....67-08 M04-74322
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BORONIN N I.....67-07 M18-72615
BOROVIK ROMANOV A S.....67-07 M15-73703
BOROVIKOV A I.....67-06 M10-70350
BOROVSKII I B.....67-12 M19-82303
BOROVSKII YU F.....67-01 M12-57462
.....67-06 M12-70750
BOROVSKIKH V V.....67-08 M03-76243
BOROVSKIY YU Z.....67-02 M14-61990
BOROVUSHKIN I V.....67-03 M11-65048
.....67-07 M11-73968
BOROWSKI KURT.....67-08 M04-76287
.....67-11 M04-81373
.....67-12 M04-81950
BORROMEE C.....67-08 M12-76214
BORSA F.....67-05 M16-69788
BORSESE ALDO.....67-11 M13-80576
BORSHCHENKO E I.....67-04 M17-67667
BORSHCHEVSKII A S.....67-11 M15-80601
BORSHCHEVSKII I K.....67-04 M04-67238
.....67-04 M04-67866
BORTNIK M V.....67-06 M16-71758
.....67-10 M16-79450
BORTS YU M.....67-01 M04-57173
.....67-04 M04-67604
BORUSEVICH L K.....67-02 M13-59888
.....67-02 M13-60741
.....67-12 M13-82124
BORUSHKO M S.....67-02 M14-59671
BORZDYKA A M.....67-03 M13-65795
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BOSAK L K.....67-01 M11-58216
.....67-02 M11-61254
.....67-04 M11-66528
.....67-06 M11-70151
BOSCH M.....67-08 M17-74759
BOSCH ROBERT.....67-07 M12-74160
BOSDORF L.....67-01 M18-58375
BOSER O.....67-02 M15-61821
BOSER OTMAR.....67-10 M17-78694
BOSIO LOUIS.....67-02 M16-60172
BOSOMWORTH D R.....67-09 M15-77178
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BOSSARD G W.....67-01 M02-58695
BOST M.....67-12 M20-82832
BOSTANJOGLO O.....67-10 M16-78781
BOSWELL BILL J.....67-03 M06-65067
BOTHAM R A.....67-03 M15-65721
BOTKA L.....67-09 M09-76932
BOTKHA L.....67-02 M09-59611
BOTS G J C.....67-11 M15-80772
BOTSCO RON J.....67-02 M19-60916
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BOTT CHARLES H.....67-09 M17-77508
BOTTCHER WILHELM.....67-08 M13-75661
BOTTICHER HORST.....67-01 M13-57294
.....67-10 M13-79068
BOUCHARD R J.....67-08 M14-75996
BOUCHAUD JEAN PIERRE.....67-09 M14-78015
BOUCHER A.....67-12 M04-83336
BOUCHER R.....67-09 M01-76328
BOUCHET B.....67-11 M17-80244
BOUCHY C.....67-02 M13-58928
BOUCRAUT M.....67-09 M02-77838
.....67-12 M02-83202
BOUGHTON R.....67-03 M16-65140
BOUGNOT G.....67-10 M15-79015
BOUGNOT J.....67-11 M14-80626
BOUILLON F.....67-11 M14-80352
BOULGER F W.....67-02 M08-61901
.....67-05 M01-69601
.....67-07 M07-72748
.....67-08 M07-75497
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.....67-11 M07-80531
BOULGER FRANCIS W.....67-05 M07-69167
BOULIN D M.....67-12 M13-82717
BOULOUX JEAN CLAUDE.....67-10 M14-79713
BOUMAN J.....67-01 M17-57227
.....67-04 M14-66544
BOURDIEU J M.....67-02 M19-60872

BOURDIEU J M.....67-02 M19-61961
BOURELIER F.....67-03 M13-65549
.....67-03 M14-65552
BOURGEOIS HUGUES.....67-03 M03-65194
BOURGEOIS MICHEL.....67-02 M03-59420
BOURGUILLOT R.....67-03 M19-65249
BOURRET A.....67-02 M14-61528
BOUTAULT JACQUES.....67-12 M17-83103
BOUTIN P.....67-06 M02-71887
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BOUVIER LEON.....67-08 M06-74498
BOVENKO V N.....67-10 M17-79637
BOVKUN G A.....67-06 M17-70961
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BOWRING P.....67-05 M17-69565
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BOX W D.....67-01 M14-58583
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BOXALL D.....67-04 M10-66711
BOXALL T D.....67-10 M10-79087
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BOYARINOVA A O.....67-08 M10-74874
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.....67-11 M04-81453
BOYD G E.....67-09 M14-76600
BOYD W K.....67-03 M18-65431
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BOYD WALTER K.....67-02 M18-59481
BOYKO B T.....67-04 M15-67661
BOZET JEAN.....67-04 M20-67211
BOZHKO M P.....67-10 M02-79845
BOZHKO YU I.....67-02 M11-59789
BOZORTH R M.....67-07 M15-73580
BOZUNG R J.....67-02 M08-59033
BOZZA G.....67-06 M05-71949
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BRABERMAN M Z.....67-06 M11-70314
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BUNZEN.....67-07 M12-73891
BURABIKHI V A.....67-08 M15-75255
BURAKOVA E A.....67-04 M18-67286
BURALEV YU M.....67-09 M19-78066
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BURATTI M.....67-11 M11-80392
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BURBYGA A M.....67-08 M07-74334
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BURESCH F E.....67-07 M13-74236
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BURGDORF M.....67-10 M17-79180
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BURGESS A J.....67-01 M04-57504
BURGESS PRICE.....67-09 M01-77983
BURGHARD JR H C.....67-11 M17-80694
BURGHARDT HELMUT.....67-07 M06-74112
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BURKART WALTER.....67-06 M12-72157
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BURLAKOV I A.....67-07 M08-73950

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BURLEY N A.....67-08 M19-74513
BURMEISTER J.....67-02 M14-60922
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BURMESTER A.....67-07 M15-73936
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BUTENUTH EDITH.....67-09 M10-77080
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BUZIKOV YU M.....67-06 M07-70475
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BYRON J F.....67-11 M17-80312
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CABANE BROUTY FRANCOISE.....67-10 M14-79709
CABANE G.....67-06 M17-70886
CABANE JEAN.....67-10 M14-79585
CABLE J W.....67-02 M15-60761
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.....67-09 M15-77688
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CAHOREAU M.....67-08 M18-76227
CAILLAT ROGER.....67-02 M18-62191
CAILLET MARCEL.....67-12 M13-83104
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CAIRNS R L.....67-05 M13-69871
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CALDWELL C S.....67-09 M09-76339
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CAMMETT J.....67-04 M17-66291
CAMONA G.....67-09 M14-78287

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CAMUS AGNES.....67-09 M18-77679
CANALS DANIEL.....67-12 M13-82285
CANNELLI GAETANO.....67-02 M14-59734
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CARAYANIS G S.....67-08 M17-75367
CARBIENER WAYNE A.....67-03 M19-65015
CARBONARO P A G.....67-07 M10-72991
CARDER J A.....67-06 M12-70028
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CARDONA MANUEL.....67-08 M16-75004
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CAREY R.....67-02 M15-59901
CARGIL G S.....67-08 M13-75995
CARLEN JAN CHRISTER.....67-01 M11-58017
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CARLI ADRIANO.....67-11 M04-80402
CARLIN F X.....67-01 M12-57540
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CARO PAUL.....67-02 M15-60612
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CARVER THOMAS R.....67-01 M15-57552
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CARY PHILIP E.....67-02 M10-59456
CARYLL D B.....67-04 M14-66984
CASAHOURSAT LUCIEN.....67-10 M14-79926
CASALOT ANDRE.....67-02 M14-60924
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.....67-12 M14-82290
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CASHMAN R J.....67-09 M14-77015
CASS TH.....67-05 M13-69462
CASSAGNE H.....67-06 M06-71710
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CATON ROBERT L.....67-10 M17-78764
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CATTOIR F R.....67-08 M03-76160
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CECH J.....67-02 M14-58868
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CEMPA S.....67-02 M03-58864
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CEPURSKI ANDRZEJ.....67-06 M03-71874

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CHAR T L RAMA.....67-07 M18-73300
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CHARQUET DANIEL.....67-12 M13-83199
CHARSLEY P.....67-11 M15-80619
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CHATTERJEE FISCHER R.....67-07 M10-73184
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CHAUDRON GEORGES.....67-03 M14-65545
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CHEL YUN SEN.....67-01 M04-58151
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CHEPIGA M V.....67-06 M13-70215
CHEPKO FRANK E.....67-02 M08-58976
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CHERKEZOV IV.....67-04 M03-67446
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COLTON ROBERT M.....67-01 M17-58682
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COMPRELLI F A.....67-03 M17-65018
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CONNELLY ROBERT F.....67-10 M18-78586
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CONOBY J F.....67-06 M18-72339

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CONSERVA M.....67-09 M14-78287
CONSIDINE DENNIS P.....67-01 M14-57948
CONSTANT A.....67-02 M10-59085
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CONSTANTINESCU A.....67-01 M17-58174
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CONSTANTINESCU CR.....67-04 M16-67107
CONTAMIN PIERRE.....67-12 M14-83198
CONTE R.....67-08 M17-75650
CONTRACTOR G P.....67-01 M17-57516
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CONTRE M.....67-03 M13-65261
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CONWAY J B.....67-02 M17-59436
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COPELAND JOHN A.....67-09 M16-76641
COPELAND M A.....67-01 M15-58668
COPELAND M I.....67-09 M14-77690
COPENHAGEN W J.....67-03 M18-65994
COPLEY S M.....67-02 M17-60705
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COPPER A W.....67-05 M18-68314
COPPOLANI JEAN.....67-01 M14-57403
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CORBETT JAMES W.....67-04 M16-67299
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COULOMB PIERRE.....67-05 M13-69455
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.....67-08 M06-75034
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COZ A R.....67-06 M14-70812
COZZI ALBERTO.....67-10 M18-80007
CRACKNELL A P.....67-06 M16-70470
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CRAENEN J.....67-12 M10-82359
CRAFOORD R.....67-12 M17-82776
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CRANE C H.....67-04 M11-67629
CRANSTON B H.....67-08 M08-75327
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CRATCHLEY D.....67-03 M09-65210
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CRAWFORD J H JR.....67-04 M16-67306
CRAWFORD JAMES H JR.....67-10 M16-79154
CRAWFORD R C.....67-02 M13-60814
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CRAWFORD WILLIAM M.....67-03 M18-65983
CRAWLEY J.....67-01 M07-57968
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CREMER L.....67-09 M20-76617
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CREVELING L.....67-08 M15-74565
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CRISTINA V.....67-01 M17-58619
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CROCKER A J.....67-08 M15-74388
CROMER DON T.....67-10 M13-78561
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CSER L.....67-08 M15-75226
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CUCCHIARA O.....67-07 M19-74027
CUFF K F.....67-04 M16-66794
CULBERT H.....67-08 M15-74473
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CURA R.....67-07 M13-73615
CURE J.....67-10 M13-78855
CURNOW T F.....67-04 M18-66156
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CUSICK J H.....67-05 M19-69087
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CUTHBERT J.....67-11 M15-80303
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CZICHON H.....67-02 M03-59562
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DAIN R J.....67-06 M04-71330
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DE BEER Z.....67-02 M19-59167
DE BENI G F.....67-09 M18-78260
DE BONDT M.....67-09 M14-77592
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DE DORLODOT P.....67-09 M18-78021
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DE LA CRUZ M E.....67-05 M15-68657
DE LA CUADRA A.....67-02 M03-58934
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DE MARTINO GOUSEPPE.....67-09 M12-77665
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DEATH FRANK S.....67-02 M03-60943
DEAVER BASCOM S JR.....67-06 M16-70549
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DUFOUR PHILIPPE	67-10	M14-79712
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DUTOV A G	67-06	M19-70321
DUTTA S M	67-01	M04-57492
	67-09	M04-78134
DUTTON R	67-02	M17-61537
	67-02	M17-61600
	67-11	M17-81267
DUVALL D S	67-12	M11-82823
DUWELL E J	67-01	M17-57207
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DUWEZ P	67-09	M15-77455
DUWEZ POL	67-05	M13-68989
	67-07	M14-73678
	67-11	M14-81123
	67-12	M15-83273
DVININ YU I	67-02	M03-61281
	67-08	M03-76239
DVISKIN S M	67-02	M13-61917
DVORETSKII V V	67-04	M06-66096
DVORINA L A	67-01	M15-58200
	67-02	M13-59882
DVORKIND R N	67-10	M14-78956
DVORTSIN M D	67-07	M10-74180
DVORYANINOV V A	67-11	M04-81647
DVORYSNINOV V YA	67-01	M04-58170
DVOSKIN S M	67-02	M06-61009
	67-07	M06-74036
	67-12	M06-82087
DWIGHT A E	67-02	M13-59443
	67-08	M13-74784
DWIGHT AUSTIN E	67-07	M13-73670
DWORKIN A S	67-05	M13-69031
DWORSCHAK F	67-10	M15-79019
DWYER L E	67-08	M12-74650
DYACHENKO K K	67-02	M07-61948
	67-04	M07-67777
DYACHENKO L I	67-08	M17-76043
DYACHENKO S S	67-02	M14-58831
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	67-04	M14-66622
	67-04	M14-68077
DYACHENKO T F	67-08	M03-74477
DYACHENKO V I	67-12	M17-81915

DYACHENKO V S.....67-02 M14-58831
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.....67-05 M14-68837
DYACHKOV P N.....67-02 M04-59777
DYADECHKO G P.....67-07 M07-73007
DYAKONOV A I.....67-05 M04-68549
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DYAKONOV L I.....67-01 M14-57654
DYAKONOV V I.....67-11 M04-81405
DYAKONOVA V S.....67-10 M04-78421
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DYAKOV I G.....67-11 M03-81157
DYAKOV L G.....67-12 M03-82112
DYAKOV TODOR.....67-04 M02-67130
DYAKOV V G.....67-05 M17-68365
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.....67-08 M11-75728
DYAKOVA M A.....67-02 M14-60548
DYAKOWSKI STANISLAW.....67-02 M04-59567
DYANOV I G.....67-03 M14-65255
DYATLOV V I.....67-05 M11-69405
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DYBAL KAZIMIERZ.....67-01 M07-57138
DYBCZYNSKI RAJMUND.....67-10 M03-79701
DYBINA P V.....67-05 M12-69834
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DYER D.....67-12 M10-83171
DYER H B.....67-07 M08-73690
DYER HENRY B.....67-09 M08-77028
DYKE R M.....67-07 M08-72985
DYKIEL A.....67-10 M2Q-79803
DYMARSKAYA P I.....67-11 M12-81288
DYNES R C.....67-02 M16-61690
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DYSON D J.....67-05 M13-69431
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DYSON J R.....67-03 M05-65673
DYUBUA B CH.....67-12 M16-83324
DYUBUA V CH.....67-02 M15-59929
DYUBUYA B CH.....67-07 M15-72584
DYURGEROV N G.....67-02 M11-59515
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DYUSEBEKOV B.....67-11 M03-81465
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.....67-11 M04-81407
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DZHALILOV S U.....67-07 M14-72946
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DZHEMILEV N K.....67-02 M15-62211
.....67-11 M15-81449
DZHENDOVA SH CH.....67-06 M02-72102
DZHEVAGA I I.....67-04 M17-66433
.....67-07 M17-72692
DZHUGUTOV M YA.....67-01 M13-57265
DZIEWONSKI Z.....67-06 M09-70212
DZIEYK BRUNO.....67-06 M11-72058
DZNELADZE ZH I.....67-04 M06-67950
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DZUGUTOV M YA.....67-02 M10-61875
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.....67-04 M10-67694
.....67-04 M14-67687
.....67-07 M17-74192
.....67-10 M17-78435
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.....67-12 M17-83433
DZYGALO V I.....67-04 M03-66963
DZYKOVICH I YA.....67-02 M13-62159
.....67-02 M14-62126
.....67-04 M13-67166
.....67-05 M18-68382
.....67-06 M13-72307
.....67-11 M13-81579
DZYUBA M I.....67-12 M06-83031

EAGLE D F.....67-07 M15-73503
EAMES WILMER B.....67-12 M20-82643
EARGLE J C.....67-09 M03-76474
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EARLES S W E.....67-07 M17-74088
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EATON J R.....67-11 M01-81101
EBEL H.....67-04 M13-66283
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EBEL HORST.....67-01 M19-57290
EBELING R.....67-02 M13-59422
EBERHART J G.....67-01 M15-57425
EBERLY WARREN S.....67-04 M17-67719
EBERSBACH G.....67-08 M19-74898
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EBERT KARL-AUGUST.....67-02 M17-60106
EBERT L J.....67-04 M17-66938
.....67-12 M17-82838
EBERTSHAUSER HANS.....67-02 M08-62199
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EBIKO HIDEAKI.....67-02 M18-59987
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EBISAWA SHIGEO.....67-06 M15-71029
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EBNETH H.....67-09 M12-77538
EBNETH HAROLD.....67-10 M12-79884
ECHEVERRIA GABRIEL ARREGUI.....67-10 M03-78469
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ECKARDT J.....67-10 M15-78567
ECKELT P.....67-06 M16-72096
ECKENSTEIN ROBERT B.....67-06 M11-70779
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ECKERD J W.....67-07 M04-74113
ECKHARDT GISELA.....67-03 M13-65895
ECKSTEIN B.....67-07 M14-72940
ECKSTEIN H J.....67-09 M04-77226
.....67-09 M14-77227
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.....67-11 M04-80213
ECKSTEIN HANS JOACHIM.....67-07 M01-73189
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.....67-07 M13-73191
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.....67-07 M17-73194
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ECKSTEIN Y.....67-06 M16-69918
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ECONOMY J.....67-07 M09-73342
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EDDOLLS D V.....67-02 M16-61507
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EDELEANU C.....67-07 M01-74266
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EDELMAN RALPH E.....67-05 M06-68684
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EDEROVA JANA.....67-12 M04-82664
EDINGTON J W.....67-01 M13-57124
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EDLOW M H.....67-05 M15-69501
EDMISTON WILLIAM A.....67-03 M14-65082
EDMONDS D T.....67-03 M16-65141
EDNERAL E P.....67-06 M05-70562
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EDRIDGE A L.....67-07 M16-72924

EDSHAMMAR LARS ERIK.....67-09 M13-76383
EDSMAR KURT.....67-01 M15-58010
EDSTROM J O.....67-12 M01-82802
EDWARDS A W.....67-04 M01-66399
EDWARDS C R.....67-06 M07-70804
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EDWARDS J.....67-05 M18-68823
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.....67-08 M06-75034
EDWIN B.....67-01 M20-58234
EELES E G.....67-07 M17-72815
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EFISENKO S P.....67-10 M07-79813
EFREMENKOVA V I.....67-06 M13-70966
EFREMKIN V V.....67-08 M03-75148
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EFREMOV M N.....67-07 M08-73957
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EFREMOVA M V.....67-09 M13-76848
EFROIMOVICH YU E.....67-05 M06-69079
EFSIC E J.....67-12 M14-82865
EFTESTOL BARD.....67-05 M08-69742
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EGAN P F.....67-08 M07-74360
EGANYAN I L.....67-06 M17-72374
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EGAWA SHOICHI.....67-12 M06-82103
EGELSTAFF P A.....67-02 M13-60808
EGERER FRANZ.....67-07 M18-74004
EGEREV O I.....67-01 M02-57307
EGERTON R F.....67-10 M15-79337
EGIAN K A.....67-04 M15-66482
EGIZ I V.....67-02 M08-58898
EGNELL L.....67-11 M17-80263
EGOLAEV V F.....67-05 M14-69647
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EGOROVA K A.....67-11 M18-81281
EGORSHINA T V.....67-04 M15-66859
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.....67-09 M14-77281
EHL JURGEN.....67-01 M17-57923
EHLE GEORGE.....67-09 M08-77804
EHLERT R C.....67-06 M16-71434
EHRENFELD J.....67-03 M15-65877
EHRENREICH H.....67-03 M16-65027
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EHRHARDT HELMUT.....67-11 M19-80346
EHRHARDT LOTHAR.....67-10 M14-78318
EHRIG GUNTER.....67-04 M04-67408
EHRLICH A C.....67-05 M15-68280
EHRT RUDOLF.....67-02 M11-60213
EIBL J.....67-01 M04-58105
EIBSCHUTZ M.....67-10 M16-79362
EICHELBERGER R L.....67-01 M15-58508
EICHEN E.....67-04 M15-66049
EICHHORN F.....67-08 M11-75608
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EICHHORN FRIEDRICH.....67-07 M11-72417
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EICHKORN G.....67-09 M18-76647
EICHKORN GUNTER.....67-01 M17-57291
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EICHKORN GUNTHER.....67-09 M14-76798
EIDUK O I.....67-02 M17-61636
EIGELES M A.....67-03 M02-65574
EIKUM A.....67-05 M14-68752
EILHAUER GEORG.....67-09 M19-77587
EINSPRUCH N G.....67-01 M19-57228
.....67-04 M16-66795
.....67-05 M15-69815
EINSPRUCH NORMAN G.....67-02 M16-60530
EISCH JOHN J.....67-10 M01-80001
EISELSTEIN H L.....67-09 M01-77821
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EISENBERG L.....67-04 M16-66181
EISENBLATTER J.....67-04 M14-67456
EISENKOLB JURGEN.....67-07 M19-74107
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EISFELD H.....67-11 M08-80399
EITMAN D A.....67-06 M17-71628
EJIMA TATSUHIKO.....67-01 M14-58747
EJIRI ARISATO.....67-04 M16-67473
EKATOVA A S.....67-12 M14-82417
EKBOM L.....67-09 M14-76305
EKETORP SVEN.....67-03 M06-65410
.....67-08 M04-75398
EKHINA E V.....67-02 M14-59766
.....67-08 M10-76124
.....67-09 M17-77041
EKONOMOPULOS M.....67-10 M17-79212
EKSTROM THOMMY.....67-12 M03-82515
EL HAIK M.....67-01 M10-58012
EL KHASAN ABU.....67-12 M15-82402
EL REHIM SAYED SABET ABD.....67-08 M18-74624
EL SALAM EHAB M ABD.....67-12 M16-82525
EL SHANSHOURY I A.....67-05 M18-68642
EL TAWII S Z.....67-02 M03-60600
EL TAWIL S Z.....67-05 M03-68475
EL TAYEB N M.....67-12 M14-82753
ELAGIN V I.....67-02 M09-61286
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ELAGINA E I.....67-02 M13-58870
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ELBANANI EZZELDIN.....67-07 M04-73008
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.....67-07 M16-73817
.....67-09 M13-77427
ELBAUM CHARLES.....67-04 M17-66226
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ELFMARK JIRI.....67-04 M17-66019
ELGHOZI C.....67-05 M11-69327
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ELIAS J A.....67-11 M13-81349
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ELIEZER Z.....67-07 M15-73510
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.....67-10 M17-78981
ELISEEV A A.....67-09 M13-76941
ELISEEVA E A.....67-02 M11-59795
ELISEEVA V D.....67-04 M14-66005
ELISTRATOV A M.....67-06 M14-70507
ELKIN F M.....67-01 M17-57282
ELKIN YU M.....67-11 M17-81048
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ELKINS D A.....67-07 M03-74199
ELKINS PERRY E.....67-07 M09-73352
ELLETT M R.....67-04 M16-66794
ELLGREN A J.....67-03 M19-65021
ELLI MARIO.....67-08 M14-76057
ELLINGER F H.....67-03 M14-65087
.....67-12 M13-82868
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ELLIOTT GUY R B.....67-12 M15-82458
ELLIOTT JOHN F.....67-08 M14-75315
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ELLIOTT R.....67-05 M14-68723
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ELLIS W C.....67-01 M14-58694
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ELMANOVICH V N.....67-02 M15-61732
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ELO R.....67-11 M15-81690
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.....67-02 M01-60930
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.....67-07 M04-73332
ELSER F.....67-08 M12-75502
ELSIE P.....67-02 M12-61131
ELSING LEO.....67-02 M10-59109
ELSSNER LUDWIG.....67-12 M09-83295
ELSTNER L.....67-02 M15-61509
ELSTON J.....67-08 M20-75798
ELTYSHEV V P.....67-02 M11-62163
ELVIN C D.....67-10 M13-78906
ELWELL D.....67-01 M15-58781
ELWELL W T.....67-07 M01-72927
ELYAKOV I I.....67-11 M03-81224
ELYASHEVICH M A.....67-04 M16-68009
ELYUTIN O P.....67-10 M07-79046
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ELYUTIN V P.....67-02 M14-60051
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.....67-06 M15-72110
.....67-06 M17-72353
.....67-07 M12-73658
.....67-09 M15-77121
.....67-10 M03-79137
.....67-10 M12-79134
.....67-10 M01-78942
ELYUTINA G I.....67-05 M04-68326
EM A P.....67-07 M04-72854
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EMBURY J D.....67-01 M17-57407
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EMELYANENKO O V.....67-01 M15-57652
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.....67-10 M01-79624
.....67-10 M01-79627
.....67-10 M14-79625
EMERSON CHARLES.....67-01 M06-58725
.....67-03 M06-65675
EMERY S N.....67-10 M18-80100
EMI TOSHIHIKO.....67-10 M15-78747
EMICKE KLAUS.....67-05 M03-69119
EMICKE O.....67-07 M07-74156
EMIEVSKII V I.....67-03 M17-65612
EMINGER ZD.....67-09 M06-77221
EMLEY E F.....67-02 M01-60901
EMLEY FRANK.....67-05 M09-68944
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EMLIN B I.....67-01 M03-57276
EMMANUEL G A.....67-07 M10-74148
EMMERICH E W.....67-02 M20-61623
EMMONS W F.....67-01 M17-57621
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EMOD GYULA.....67-04 M03-67133
EMOTO MASAYUKI.....67-04 M19-67517
EMRICK R M.....67-11 M14-80778
EMULIN B I.....67-02 M04-59862
EN UK LI.....67-04 M04-66902
ENAMI TOYOICHIRO.....67-05 M17-68531
ENDERBY J E.....67-02 M13-60808
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ENDO KICHIRO.....67-01 M17-57588
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.....67-12 M18-82827
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ENDOH MAKOTO.....67-02 M17-59980
ENDOH Y.....67-04 M15-67367
ENDOH YASUO.....67-08 M15-76172
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ENDRLE MIROSLAV.....67-12 M07-83454
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ENGELL HANS JURGEN.....67-08 M04-75657
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ENGLE R M.....67-12 M17-83239
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EPAIN RAYMOND.....67-06 M14-72013
EPANCHINTSEV O G.....67-09 M13-77288
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EPIFANOV V G.....67-04 M14-66039
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ERIKSSON R.....67-02 M07-59809

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ERNENPUTSCH HORST.....67-08 M11-76151
ERNST G J.....67-05 M17-69770
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ERNST LAJOS.....67-07 M16-73607
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ERRINGTON P R.....67-12 M16-82005
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ERTELIS U YA.....67-12 M14-83315
ERTL G.....67-04 M14-67743

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ESSER F.....67-09 M04-77217
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ETHERIDGE C L.....67-03 M19-65317
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ETTERICH OTTO.....67-06 M04-71439
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ETTWIG H H.....67-08 M15-75647
EUDIER M.....67-08 M17-76222
EUGENE F.....67-06 M08-71802
EUIER R.....67-04 M02-66297
EULER R.....67-12 M04-83128
EULER ROBERT.....67-09 M15-77497
EUWEMA R N.....67-04 M16-66740
EVANGULOVA E P.....67-06 M10-70928
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EVANS U R.....67-05 M12-68830
EVANS W.....67-02 M17-59023
EVANS W P.....67-08 M17-75346
EVANS WILLIAM M.....67-09 M08-77803
EVDOKIMENKO A I.....67-02 M03-62217
EVDOKIMOV A A.....67-05 M17-68453
EVDOKIMOV V D.....67-12 M17-82434
EVDOKIMOVA M I.....67-02 M03-61279
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EVEN UZY.....67-03 M15-65869
EVERETT C R.....67-08 M16-75005
EVERETT L H.....67-08 M18-74705
EVERS HANS O.....67-12 M17-82058
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EVRARD M.....67-05 M12-69121
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EVSTAFEV E I.....67-08 M04-76271
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EVSTRATOV G I.....67-01 M11-58218
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EVSTYUKHIN A I.....67-08 M13-75462
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EVSTYUKHIN N A.....67-10 M17-79644
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EVTUSHENKO O V.....67-04 M11-66432
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EWALD A W.....67-06 M16-71224
EWELL J R.....67-08 M08-74458
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EWENS P M.....67-08 M14-74667
EXNER H E.....67-02 M09-59914
EXNER HANS ECKART.....67-01 M14-58341
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EYLES A R.....67-09 M12-77797
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EYRING HENRY.....67-10 M15-79965
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.....67-04 M17-67821
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FAINSHTEIN I G.....67-08 M06-74593
FAIR F V.....67-09 M15-77138
FAIRBANK L H.....67-06 M10-71937
FAIRBANKS HAROLD VINCENT.....67-08 M01-76149
FAIRBROTHER F.....67-11 M01-80401
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FORBES R L.....67-09 M14-76755
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FORESTIER H.....67-10 M17-80024
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FORLANO ROBERTO J.....67-06 M17-71164
FORMAN R G.....67-12 M17-83239
FORMBY C L.....67-01 M13-57940
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FORNASINI MARIA LUISA.....67-05 M13-69128
FORNWALT D E.....67-01 M13-58761
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FORSTEN J.....67-08 M14-75138
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FORSTER H.....67-11 M04-80204
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FORSTER WALTER.....67-09 M19-77588
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FORSTNER-BILLAU G.....67-02 M17-59138
FORSVOLL K.....67-05 M15-68757
FORSYTH P J E.....67-08 M14-74685
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FORTES M A.....67-07 M13-73904
FORTINI A.....67-10 M17-79114
FORTY A J.....67-09 M14-76591
FORWARD GORDON.....67-08 M14-75315
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FOZEFSKY L.....67-01 M02-57511
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FRAZER M J.....67-05 M18-68312
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FREYER GUNTER.....67-07 M19-74271
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FROMENT MICHEL.....67-05 M14-69130
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FROVA A.....67-09 M15-77177
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FRYZUK P.....67-12 M14-82738
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GLAZUNOV S G.....67-06 M01-70383
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GLEASON E A.....67-07 M12-74223
GLEBOVA E D.....67-12 M14-81978
GLEBOVA R D.....67-02 M09-61710
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GLINKOV M A.....67-02 M15-60733
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GLIWAR M.....67-09 M13-76802
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GLOSSER R.....67-08 M16-74945
GLOSSOP SYDNEY.....67-09 M08-77392
GLOTOV E B.....67-08 M06-75194
GLOVER S G.....67-02 M17-60639
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GLUSHKO V YA.....67-02 M11-62169
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GLYBIN A I.....67-06 M18-70078
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GNATOVSKII E S.....67-11 M02-81503
GNATYUK A D.....67-04 M18-66198
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GNEZDILOV I A.....67-02 M03-60570
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GNIEWEK GRZYBCZYK BRONISLAWA.....67-01 M04-57156
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GNUCHEV S M.....67-07 M13-74146
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GNUSIN N P.....67-01 M12-58707
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GO-CHZHUN GAO.....67-02 M04-59578

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GOCHE O.....67-07 M16-73141
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GOCZA J.....67-04 M10-66015
GODARD HUGH P.....67-06 M18-72170
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GOLDFEIN SOLOMON.....67-04 M17-66235
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GOLDIE W.....67-07 M12-72486
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.....67-08 M09-74905
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GOLUBEV YU M.....67-01 M17-57334
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.....67-12 M14-82169
GOLYSHKIN V I.....67-12 M06-81988

GOMANKOV V I.....67-08 M15-75257
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GOMES M P.....67-01 M17-58371
GOMMEL GUNTER.....67-09 M17-76368
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GOMMELLINI G.....67-09 M04-78005
GOMYO NOBUTO.....67-01 M14-58317
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GONDI PRIMO.....67-06 M17-70570
GONDOH HISASHI.....67-08 M17-75772
GONDOLF EWALD.....67-07 M17-72482
GONI E.....67-09 M17-77509
GONIBESOVA I P.....67-07 M12-72874
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GONSER B N.....67-03 M01-65319
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GONTAREVSKII V P.....67-09 M04-76833
GONZALES R.....67-12 M19-83504
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GOODE R J.....67-01 M17-58605
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GOODE ROBERT J.....67-10 M17-78763
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GOODEVE CHARLES.....67-09 M04-77839
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GOODMAN ALVIN M.....67-11 M15-81085
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GOOGIN J M.....67-01 M09-58683
GOOSSENS H.....67-07 M17-73254
GOOSSENS HANS.....67-06 M19-70047
GORA A M.....67-07 M15-74048
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GRONVOLD FREDRIK.....67-05 M14-69088
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GRONWALD ROCHUS.....67-07 M11-72417
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GROSSO J.....67-01 M14-57432
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GRUBEL RALPH.....67-04 M16-68044
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GRUHL WOLFGANG.....67-02 M17-60873
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GRUSON GEORG.....67-04 M04-67407
GRUTER O.....67-01 M15-58666
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GRUZDEVA L A.....67-02 M17-62060
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GRZYB EDWARD.....67-11 M03-81622
GSANGER M.....67-06 M17-69958
GSCHNEIDER K A JR.....67-12 M13-81827
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GSCHNEIDNER K A JR.....67-03 M14-65131
GUALANDI D.....67-06 M15-70434
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GUARD R W.....67-12 M13-82960
GUBAIDULLIN I N.....67-02 M04-62155
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GUBANOV A S.....67-06 M11-71851
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GUBEIDULINA A V.....67-10 M04-79830
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GUBERNATOROV V V.....67-08 M14-74641
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GUCCIONE EUGENE.....67-04 M02-66331
GUDCHENKO A P.....67-11 M03-81466
GUDENAU HEINRICH WILHELM.....67-12 M02-82555
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GUEGNAUD.....67-08 M17-76234
GUENAULT A M.....67-05 M15-68290
GUENOT R.....67-11 M11-81001
GUENTHER A M.....67-12 M17-83270
GUENZO E.....67-09 M10-78064
GUERICKE WILHELM.....67-07 M07-73227
GUERIN HENRI.....67-12 M13-82512
GUERLET J P.....67-11 M18-80354
GUERMEUR R.....67-10 M16-79370
GUERRA C R.....67-09 M14-76486
GUERREIRO A M.....67-04 M07-66335
GUERRERA U.....67-02 M17-59172
GUERRIERI A.....67-09 M19-78025
GUERTIN R P.....67-10 M16-79282
GUEST R J.....67-03 M19-65122
GUETHS J E.....67-05 M16-69514
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GUINGAND J.....67-09 M12-77648
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GUTTMANN V.....67-01 M08-57457
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GUY A G.....67-01 M14-58468
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GUZOVSKAYA M A.....67-06 M14-69978
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GVOZDEV A G.....67-04 M16-67656
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GVOZDEV M S.....67-04 M06-66426
GYORGAK CHARLES A.....67-01 M07-58673
GYORGY E M.....67-03 M15-65162
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GYRDYMOV YU A.....67-02 M02-59537
GYSEL W.....67-01 M17-58619
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GYU KIM CHUN.....67-04 M17-67127
GYUN KHAN CHEN.....67-04 M03-68049
GZHIB E YU.....67-02 M04-62139
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HAACKE GOTTFRIED.....67-01 M15-57118
HAAGER M.....67-02 M15-59910
HAANSTRA H B.....67-01 M13-57555
HAARMANN R.....67-07 M18-73232
HAAS C.....67-01 M14-57442
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HAASEN PETER.....67-05 M17-69846
HAASIS.....67-07 M08-74219
HAASIS GERHARD.....67-09 M08-77020
HAASTERT HERMANN PETER.....67-07 M04-72707
HABASHI FATHI.....67-07 M15-74261
HABERHAUER OSWALD.....67-06 M07-72031

HABERKORN H.....67-01 M17-57573
HABERL GUNTHER.....67-03 M06-65350
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JAIMES AUGUSTO NAVA.....67-12 M19-83256
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KAUCZOR E.....67-04 M14-67061
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KAUP KONRAD.....67-12 M04-83393
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KENIG M J.....67-09 M17-78103
KENKE K.....67-11 M17-81162
KENMORE HERBERT.....67-02 M12-59006
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KENTNOR CHARLES B III.....67-10 M12-78704
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KHAYMOVICH V S.....67-04 M13-67655
KHAYNOVSKAYA V V.....67-06 M16-71917
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KHAZANOV I O.....67-12 M17-81797
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KHITROV V A.....67-07 M18-73650
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KHMEL G P.....67-04 M10-66454
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KHO KIM VON.....67-06 M13-70914
KHOBDABERGENOV R ZH.....67-02 M03-58856
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KHRYCHEVA D D.....67-02 M09-60597
KHUDOBIN L V.....67-02 M09-60186
KHUDOKORMOV D N.....67-02 M14-61196
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KHUDOMAN A.....67-08 M17-74892
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KHUSNOYAROV K B.....67-11 M04-81447
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KHUVES YA E.....67-04 M02-67520
KHVEDCHUK I R.....67-05 M17-69655
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KHVOSTIK V P.....67-06 M08-70148
KHVOSTINTSEV K I.....67-06 M10-71311
KHVOSTYNTSEV K I.....67-04 M17-66487
KHYI KIM EN.....67-09 M03-76823
KHYP KIM EN.....67-04 M04-66010
KI MAI.....67-02 M02-62049
KIBA SOICHI.....67-05 M02-69361
KIBANTSEV N A.....67-02 M07-61214
KIBITOVA L I.....67-02 M17-62058
KIDA K.....67-03 M17-65295
KIDERLE E.....67-07 M10-73185
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KIDO TAKAAKI.....67-08 M18-74923
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KIEHL J P.....67-02 M07-62039
KIENDL H.....67-07 M13-72757
KIERMEIER F.....67-10 M18-78467
KIERNAN B.....67-07 M12-73161
KIERZEK PECOLD E.....67-05 M16-69794
KIESS H.....67-11 M15-81676
KIESSLING R.....67-05 M06-68456
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KIESZNIEWSKI J.....67-06 M13-70341
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KIEWIT D A.....67-03 M15-65640
KIHARA HIROSHI.....67-06 M17-71688
KIHARA JUNJI.....67-01 M17-58598
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KIHLGREN G.....67-06 M08-70821
KIHLSTEDT P G.....67-06 M02-70826
KIKKAWA OSAMU.....67-01 M17-58568
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KIKOIN I K.....67-10 M15-79118
KIKOLEV G V.....67-12 M04-82638
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KILLEN W J.....67-06 M12-71558
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KIMBERLEY J L.....67-09 M12-77664
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KINBARA SHIGERU.....67-04 M06-67115
KINCH M A.....67-01 M16-58780
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KIND PETER.....67-02 M02-62249
KINDBOM L.....67-06 M17-70824
KINDELAN.....67-12 M04-83203
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KING D.....67-03 M13-65876
KING E.....67-09 M15-76314
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KING JAMES R.....67-01 M11-57235
KING R.....67-03 M13-65213
KING W H.....67-09 M11-78145
KINGERY W D.....67-08 M17-76095
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KINOSHITA AKIRA.....67-03 M14-65160
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KIRA AKIO.....67-10 M17-79879
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.....67-09 M09-76908
KISMATULIN E R.....67-01 M17-58208
KISSEL N N.....67-01 M07-58091
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KISSELL F.....67-03 M15-65130
KISSIN D A.....67-08 M02-74885
KISSIN G H.....67-04 M12-67789
KISSINGER H E.....67-08 M14-75994
KITA KIYOSHI.....67-08 M06-74618
KITAEV B I.....67-02 M04-59871
KITAEV G A.....67-01 M14-57656
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KITAEV YA A.....67-06 M14-70295
KITAEVA L P.....67-06 M13-72365
KITAGAWA AKIRA.....67-01 M12-58252
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KITAGAWA HIDEO.....67-03 M18-65663
KITAGAWA K.....67-06 M04-72204
KITAGAWA SHIGERU.....67-09 M17-77575
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KITAHARA SHIGERU.....67-04 M17-67591
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KITAHIRO I.....67-03 M16-65644
.....67-03 M16-65645
KITAI TETSUO.....67-07 M15-72409
KITAKAZE KEIZO.....67-02 M16-60146
KITALA M.....67-02 M03-58884
KITAMURA ICHIRO.....67-01 M06-58258

KITAMURA MASAAKI.....67-03 M18-65823
KITAMURA MASAJI.....67-02 M13-60623
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.....67-09 M01-78210
KITASHIMA NOBUMITSU.....67-06 M18-70780
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KITAYEVA L P.....67-02 M14-61922
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KITSEV B I.....67-02 M04-61736
KITTEL J H.....67-09 M16-76353
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KITTL PABLO.....67-12 M13-83490
KIVA I S.....67-07 M12-72512
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KIWALLE JOZEF.....67-10 M11-79196
KIYONO SETSUO.....67-05 M15-69542
KJEKSHUS A.....67-04 M16-68157
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KJEKSHUS ARNE.....67-01 M13-58510
KLAASE P T A.....67-04 M14-66544
KLABUNDE C E.....67-08 M16-74661
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KLAMUT C J.....67-04 M18-66388
KLANT H.....67-09 M20-76614
KLARNER H F.....67-02 M17-59811
KLARNER HEINZ FRIEDRICH.....67-11 M10-81378
KLASEN V I.....67-09 M02-76717
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.....67-02 M09-60093
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KLAUS HEINRICH.....67-07 M08-73247
KLAUS SCHEIDIG.....67-04 M04-67407
KLAUSLER JOSEF.....67-04 M10-68128
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KLEIN WINFRIED.....67-07 M11-73715
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KLEINSTEUBER GERHARD.....67-07 M06-72490
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KLEISTUND H G.....67-05 M14-68517
KLEMENT G.....67-11 M12-80496
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KLEMENTS A B.....67-02 M11-59789
KLEMESHEV G A.....67-06 M04-69968
KLEMESHOV G A.....67-02 M04-60725
KLEMM H.....67-05 M14-68587
KLEMPERT V M.....67-08 M04-74325
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KLENK R A.....67-08 M08-74820
.....67-08 M08-74841
KLEPACHEVSKAYA S YU.....67-12 M09-82202
KLEPANOSOV V N.....67-05 M04-69684
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KLEPARSKII V G.....67-05 M15-69642
.....67-06 M15-72378
KLEPP FRITZ.....67-07 M04-73009
KLERK M.....67-04 M19-67273
KLERSY R.....67-07 M11-73468
KLESHCHEV G V.....67-05 M14-69644
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.....67-12 M09-83314
KLESNIL M.....67-10 M17-79017
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KLETECKA Z.....67-09 M06-77221
KLETSKIN G I.....67-02 M06-62003
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KLIBANOV E L.....67-10 M04-79320
KLIBUS V V.....67-02 M06-61191
KLIER E.....67-09 M15-76738
KLIMANEK E.....67-06 M04-70454
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KLIMASHIN G M.....67-06 M15-70875
KLIMENKO V M.....67-02 M06-59173
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KLIMOV V.....67-05 M16-69392
KLIMOV V N.....67-09 M12-76559
KLIMOVA V A.....67-04 M18-67150
KLIMUK P A.....67-06 M02-70733
KLINGLER EMIL.....67-06 M09-71705
KLINGLER RALPH.....67-10 M08-79517
KLINKOV P G.....67-12 M07-81795
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KLIPA V M.....67-10 M04-79820
KLIPOV A D.....67-02 M04-62143
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KLIR LADISLAV.....67-09 M03-76807
KLISIEWICZ Z.....67-02 M04-59590
KLISIEWICZ ZYGMUNT.....67-11 M04-81625
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KLOCHKOV N A.....67-04 M11-67816
KLOCHKOVA Z V.....67-12 M04-81866
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KLOSS K H.....67-07 M17-73235
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KLUBOVICH V V.....67-06 M08-70116
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KLUGER H.....67-09 M11-76374
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KLUGMANN E.....67-01 M15-57582
KLUSHIN M I.....67-02 M07-62284
KLUTH K H.....67-04 M04-66295
KLUYEV V M.....67-02 M07-60678
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KLYACHKO L I.....67-02 M03-60962
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.....67-11 M17-80646
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.....67-12 M04-83424
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KLYUKVINA L N.....67-08 M03-75209
KLYUSHIN V A.....67-05 M02-68955
KLYUSHIN V V.....67-04 M15-67662
KLYUSHKIN V P.....67-06 M15-71129
KMET S.....67-05 M16-68954
KMETKO E A.....67-09 M15-76315
.....67-09 M15-76316
.....67-09 M16-76317
KMETOVA D.....67-12 M03-81785
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KNAGGS K.....67-03 M19-65464
KNAPP A N.....67-05 M14-68779
KNAPP G S.....67-08 M15-74565
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KNAPP GORDON S.....67-07 M15-73551
KNAPP R.....67-01 M12-58393
KNAPP W J.....67-02 M17-60709
KNAPPETT J E.....67-10 M14-79024
KNAPPWOST A.....67-11 M17-80868
KNAUER R J.....67-06 M19-71389
KNAUSCHNER ALFRED.....67-02 M14-60207
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KNAUSS P.....67-06 M08-71211
KNEER G.....67-02 M15-61519
KNELL B H.....67-11 M04-81495
KNELLER E.....67-02 M15-61032
KNIAGININ G.....67-09 M17-78038
KNIAGININ GABRIEL.....67-10 M04-79868
KNIGHT J R.....67-07 M14-72914
KNIGHT W D.....67-06 M16-70638
KNIGHTON JAMES B.....67-01 M15-57405
KNIPPENBERG W F.....67-10 M15-79953
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KNOCHE HANS JOACHIM.....67-11 M10-80366
KNODEL C H.....67-01 M08-57548
KNODLER H.....67-01 M14-58625
KNOF HANS.....67-12 M15-82374
KNOLL PETER.....67-03 M14-65897
KNOLL W.....67-02 M15-59048
KNOOP A N.....67-11 M16-80833
KNOP GERHARD.....67-12 M04-81949
KNOP OSVALD.....67-09 M13-76446
KNOPP C F.....67-10 M11-79996
KNOPP WALTER V.....67-05 M09-68948
KNOROZ M M.....67-02 M15-61177
KNORR W.....67-01 M14-58446
KNORR W.....67-07 M15-73814
KNORR WALTER.....67-12 M13-83397
KNOTEK O.....67-05 M14-68582
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.....67-06 M17-71332
.....67-07 M17-72881
KNOWLSON P M.....67-06 M11-71684
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.....67-10 M11-78799
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KNOX A E.....67-07 M20-73131
KNUDSEN HANS.....67-06 M03-71386
KNUDSEN L K.....67-06 M18-71638
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KNYAZEV N I.....67-02 M15-60900
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KNYAZHEVA V M.....67-04 M18-67278
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KNYSHEV E A.....67-02 M03-59550
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KO H C.....67-08 M15-75382
KO ROY.....67-07 M19-73876
KOALENKO V S.....67-11 M17-80863
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KOBAYASHI AKIHIKO.....67-05 M15-69881
KOBAYASHI KOICHI.....67-04 M16-67472
KOBAYASHI MAKOTO.....67-05 M14-68534
KOBAYASHI MASAO.....67-06 M18-70582
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KOBAYASHI SEIJI.....67-08 M17-75375
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KOBAYASHI SHIRO.....67-03 M07-65940
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KOBAYASHI TAKEO.....67-02 M15-59743
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.....67-02 M15-60267
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.....67-09 M15-77995
KOBAYASHI TAKURO.....67-06 M11-71818
KOBAYASHI TOSHIO.....67-05 M06-68949
KOBAYASHI TOSHIRO.....67-02 M17-59754
KOBAYASHI YUKIO.....67-12 M15-83550
KOBAYASI KIYOSI.....67-06 M15-71557
KOBAYASI SYOITI.....67-07 M16-73995
KOBAYASI TADAO.....67-02 M11-60719
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KOBAYASI TAKESI.....67-02 M20-60718
KOBEL JAKOB.....67-07 M04-73250
KOBELEV A G.....67-06 M08-70281
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KOBELEV N I.....67-02 M06-61240
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.....67-12 M04-83422
KOBELEV V V.....67-02 M07-59825
KOBES W.....67-07 M10-72829
KOBRIN C L.....67-01 M12-57433
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KOBSEV I F.....67-08 M11-75412
KOBUS A.....67-03 M16-65735
KOBUSCH HELMUT.....67-08 M04-75587
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KOBYAKOVSKII N F.....67-07 M08-73951
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.....67-02 M07-62151
.....67-04 M17-68193

KOBZAREVA S A.....67-09 M13-76775
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KOCANDA S.....67-12 M17-83514
KOCH C C.....67-03 M13-65132
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KOCH HELMUT.....67-02 M17-60508
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KOCH M.....67-01 M13-58436
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KOCH ROBERT L.....67-10 M12-79309
KOCH W.....67-07 M19-73027
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KOCH WALTER.....67-07 M19-72717
KOCHAN STEFAN.....67-09 M03-76809
KOCHEGAROV V M.....67-05 M03-68968
KOCHENDORFER A.....67-02 M17-59713
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KOCHER REINER.....67-02 M11-59830
KOCHERGIN SERGEI MIKHAILOVICH.....67-04 M12-66279
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KOCHEROV A V.....67-10 M17-79222
KOCHEROV P V.....67-06 M15-69972
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KOCHNEV M I.....67-02 M03-59548
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KOCHNOV M I.....67-02 M02-59538
KOCHNOV V E.....67-10 M14-78972
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.....67-10 M17-78971
KOCHO V S.....67-02 M04-60059
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.....67-07 M04-72852
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.....67-12 M04-82479
KOCICH J.....67-10 M18-78711
KOCIK J.....67-05 M14-69786
KOCK ERHARD.....67-02 M12-59040
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KODAMA GEORGE.....67-05 M10-69200
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KOEN W.....67-09 M04-76388
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KOENIG S H.....67-03 M16-65916
KOENIG WILBUR M.....67-03 M08-65863
KOENIGSBERGER F.....67-03 M08-65991
KOENITZER JOACHIM.....67-09 M04-76502
KOENKO Z P.....67-06 M03-71307
KOEPKE B G.....67-12 M17-83058
KOESTER R D.....67-09 M17-76752
KOFF Z A.....67-02 M07-62150
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KOFSTAD PER.....67-04 M18-67162
KOGADAEVA V A.....67-04 M17-66360
KOGAI L M.....67-02 M03-59843
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KORNILOV B V.....67-06 M16-71767
KORNILOV I I.....67-01 M13-58188
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.....67-02 M17-59783
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.....67-02 M17-59835
.....67-02 M17-59836
.....67-02 M18-59786
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.....67-06 M17-69988
.....67-07 M13-73679
.....67-08 M13-75895
.....67-08 M17-76012
.....67-09 M13-77298
.....67-11 M13-81172
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.....67-12 M17-82163
KORNILOVA Z I.....67-02 M18-59644
KOROBEINIKOV V L.....67-02 M03-61726

KOROBEINIKOV V V.....67-06 M04-70742
KOROBKIN E P.....67-09 M07-77636
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KOROBKINA V P.....67-11 M18-81277
KOROBKO I M.....67-05 M04-68324
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KOROBKO M I.....67-02 M09-62215
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KOROBKOV I I.....67-08 M18-75898
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KOROBKOV V P.....67-01 M02-57267
KOROBOCHKIN YU M.....67-12 M03-82113
KOROBOV M A.....67-04 M03-66971
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.....67-08 M03-75093
.....67-08 M03-75206
KOROBOV O S.....67-03 M14-65788
KOROBOV V I.....67-04 M10-66101
.....67-09 M04-76934
KOROBOV V V.....67-02 M04-59508
KOROCHKIN E I.....67-02 M10-59824
.....67-02 M18-61757
.....67-06 M10-70740
KOROCHKINA L N.....67-08 M15-74644
KOROL O G.....67-10 M19-80065
KOROL V K.....67-01 M17-57281
.....67-09 M12-77411
KOROLENKO A M.....67-10 M10-78439
KOROLEV F V.....67-02 M11-60546
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.....67-09 M11-77608
.....67-09 M11-77615
.....67-11 M11-80547
.....67-12 M17-83098
KOROLEV L G.....67-06 M04-71252
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KOROLEV N M.....67-02 M11-61266
.....67-05 M11-68266
KOROLEV N V.....67-04 M12-66809
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.....67-05 M18-69052
.....67-08 M12-75913
.....67-09 M19-76578
KOROLEV V E.....67-12 M19-82304
KOROLEV V M.....67-08 M17-74539
.....67-09 M14-77421
KOROLEV V N.....67-06 M07-70477
.....67-12 M08-81798
KOROLEV YU M.....67-06 M03-70142
KOROLEVA E B.....67-12 M09-82173
KOROLEVA E E.....67-07 M09-72865
KOROLEVA L I.....67-04 M15-66485
KOROLEVA N P.....67-10 M13-79205
KOROLEVA N V.....67-04 M17-67985
KOROLEVA V A.....67-05 M13-68556
.....67-07 M13-72467
KOROLKOV A M.....67-06 M15-69986
KOROLYAK V F.....67-08 M14-76088
KOROLYUK A P.....67-06 M16-71766
.....67-11 M16-80782
KOROLYUK V F.....67-02 M14-62005
KOROS P J.....67-01 M04-57904
.....67-03 M04-65501
KOROTAEV A D.....67-08 M17-74892
KOROTAYEV A D.....67-02 M13-60299
.....67-04 M14-67641
KOROTICH V I.....67-02 M02-60722
.....67-02 M02-62259
.....67-07 M02-73001
KOROTKIKH E L.....67-10 M11-78549
KOROTKOV A G.....67-06 M17-71395
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KOROTKOV A N.....67-12 M04-83468
KOROTKOV A S.....67-06 M14-70216
KOROTKOV G A.....67-05 M04-69688
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KOROTKOVA G M.....67-02 M11-60785
KOROTUSHENKO G V.....67-01 M14-57189
.....67-02 M17-61974
.....67-05 M14-68255
.....67-08 M14-75883
.....67-09 M17-77371
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KOROVIN N V.....67-06 M09-70962
KOROVIN S S.....67-06 M03-72112
KOROVIN V G.....67-09 M09-76871
KOROVIN YU M.....67-02 M18-60787
KOROVITSYN O G.....67-08 M11-75014
KOROVKIN V G.....67-10 M17-78939
KOROVYACHENKO F K.....67-11 M03-81510
.....67-11 M13-81632
.....67-11 M14-81153
KORROL V V.....67-04 M04-66032
.....67-04 M04-66035
KORSHCHIKOV V D.....67-06 M12-71358
KORSHIKOV G V.....67-02 M04-60723
.....67-05 M04-69080
KORSHUNOV B G.....67-06 M02-71880
KORSUNOV V P.....67-12 M08-82066
KORSUNSKAYA K N.....67-06 M10-71312
KORSUNSKAYA N E.....67-06 M14-71756
KORSUNSKII M I.....67-06 M15-70523
.....67-12 M16-82796
KORSUNSKIY M I.....67-06 M16-71475
KORTENSKI KH.....67-02 M13-59580
KORTOV V S.....67-02 M19-60859
.....67-06 M16-72118
.....67-06 M19-70097
.....67-08 M14-75263
.....67-08 M16-75889
.....67-08 M17-74582
.....67-08 M19-76117
.....67-11 M16-81408
KORTOVICH C S.....67-04 M17-67329
.....67-09 M06-77089
KORTUM G.....67-04 M15-67252
KORTUM R L.....67-04 M16-66739
KORTZFLEISCH BERNHARD V.....67-10 M07-79391
KORUDANOV GEORGI.....67-02 M03-59543
KORVACHEV V D.....67-04 M15-66865
.....67-10 M15-79907
KORYAGIN N I.....67-06 M07-71359
KORYAGIN YU A.....67-04 M17-66429
.....67-07 M17-72688
KORYTINA S F.....67-06 M15-72375
KORYUKOV V N.....67-06 M02-70933
KORZEKWA T M.....67-10 M02-79563
KORZHOVA V YA.....67-02 M11-61256
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KOS J F.....67-04 M16-68162
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KOSACHEV G V.....67-06 M04-70741
KOSAKA M.....67-06 M04-72217
KOSAKA MINEO.....67-01 M04-58307
.....67-02 M15-61852
.....67-04 M18-66888
.....67-08 M14-75305
.....67-11 M14-80749
KOSAKI M.....67-10 M14-79159
KOSAREV S P.....67-06 M03-70144
KOSAREV V A.....67-08 M03-75145
KOSCHNITZKE K A.....67-09 M17-77951
KOSCO JOHN C.....67-05 M16-68668
KOSEC L.....67-12 M17-82845
KOSELEV V.....67-07 M17-72668
KOSHELEV A A.....67-07 M08-74290
KOSHELEV O G.....67-06 M16-71776
KOSHELEVA G F.....67-05 M17-69241
.....67-08 M13-76011
.....67-09 M07-77633
.....67-11 M07-80921
KOSHEVOI A S.....67-08 M11-74774
KOSHEVOY A S.....67-04 M11-67015
KOSHIGA FUSAO.....67-02 M17-60037
KOSHKAREV B T.....67-06 M11-70392
.....67-09 M11-78092
KOSHKAROVA K L.....67-04 M17-67969
KOSHKAROVA M E.....67-10 M03-80052
KOSHKIN V M.....67-04 M14-66028
.....67-11 M16-80173
.....67-11 M16-80174
KOSHMANOV V V.....67-05 M12-69010
KOSHUR L T.....67-03 M05-65913
KOSILOV A T.....67-06 M17-70338
.....67-10 M14-79472
KOSILOV M S.....67-08 M18-75260
KOSIN A V.....67-02 M06-61007
KOSINSKII V F.....67-09 M04-77055
.....67-10 M04-80039
KOSMODAMIANSKAYA L V.....67-07 M12-73652
KOSMOWSKI ALFRED.....67-08 M19-75765
KOSNYANU K K.....67-02 M15-61232
.....67-04 M15-68093
KOSNYREV G T.....67-03 M03-65580
.....67-09 M03-77117
.....67-12 M02-83093
KOSOBOKOV E A.....67-12 M11-83043

KOSOEVER V M.....67-06 M03-72116
KOSOI G M.....67-11 M02-81321
KOSOI L F.....67-04 M04-67872
KOSOLAPOVA T YA.....67-01 M16-58347
.....67-06 M14-69995
.....67-06 M14-71101
KOSOVA L YA.....67-02 M03-61601
KOSOVER V M.....67-05 M03-68967
KOSOVINC IVAN.....67-02 M19-58874
KOSOWSKI ADAM.....67-06 M13-71113
KOSS P.....67-01 M16-58232
KOSSAK K.....67-09 M06-77003
KOSSOVICH G A.....67-02 M17-59950
KOSSOWSKY R.....67-06 M14-71617
.....67-06 M15-71618
.....67-12 M13-82859
.....67-12 M17-82877
KOSTAL A.....67-12 M10-82902
KOSTAL V.....67-02 M03-58864
.....67-02 M03-59586
KOSTAL VACLAV.....67-10 M03-79852
.....67-11 M09-81601
KOSTAREV A I.....67-01 M13-57339
KOSTELOV D L.....67-03 M04-65952
KOSTELOV V V.....67-02 M03-61278
KOSTENETSKII D N.....67-01 M04-58092
KOSTENEVICH A A.....67-09 M11-76856
KOSTENKO A D.....67-10 M03-79146
KOSTENKO A V.....67-01 M18-58711
.....67-02 M18-61179
KOSTENKO I V.....67-11 M12-81665
KOSTENKO M A.....67-06 M11-70736
KOSTER E.....67-05 M15-69773
.....67-06 M15-70984
KOSTER W.....67-01 M17-57383
KOSTER WERNER.....67-05 M13-69851
.....67-05 M15-69844
.....67-06 M15-71720
.....67-07 M15-73852
.....67-09 M10-77088
.....67-09 M17-77353
KOSTER WILLIAM P.....67-10 M08-79515
KOSTEREV L B.....67-07 M04-73019
KOSTETSKII B I.....67-01 M17-57132
.....67-01 M17-57692
KOSTETSKII V I.....67-02 M09-60895
KOSTIN A A.....67-07 M03-72783
KOSTIN I E.....67-02 M03-62216
KOSTINA T K.....67-12 M17-82343
KOSTKA JOACHIM.....67-01 M07-57138
KOSTMAN S.....67-04 M14-66389
KOSTOGONOV V G.....67-05 M14-69697
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KOSTOGRYZOV V S.....67-08 M10-74890
KOSTORNOV A G.....67-04 M09-66268
.....67-06 M09-70960
.....67-07 M09-72506
.....67-08 M09-74903
.....67-10 M09-79000
.....67-10 M09-79343
.....67-11 M09-80892
.....67-12 M09-82210
KOSTRIKIN V M.....67-11 M02-81227
.....67-11 M02-81230
KOSTUR N L.....67-02 M14-58982
.....67-09 M14-76846
KOSTUR T A.....67-02 M14-58982
KOSTYLEV V M.....67-10 M05-79251
KOSTYRA YU F.....67-12 M05-81738
KOSTYUK V A.....67-02 M04-60061
KOSTYUKOV A A.....67-08 M03-75091
.....67-08 M03-76239
KOSTYUKOV N S.....67-05 M18-68600
KOSTYUKOVA YE P.....67-02 M17-61675
KOSTYUNIN A A.....67-02 M03-60957
KOSUGE KOJI.....67-04 M15-67486
.....67-04 M16-67476
.....67-07 M16-72408
.....67-11 M13-81688
KOSUGE T.....67-06 M04-72294
KOSYACHENKO G I.....67-12 M06-82100
KOTANI JUN.....67-09 M11-77332
KOTAS ZDZISLAW.....67-10 M04-78650
KOTELNIKOV N V.....67-02 M15-59921
.....67-05 M15-68241
.....67-07 M15-72576
.....67-08 M15-75277
KOTERA N.....67-04 M16-66772
KOTERAZAWA K.....67-01 M17-57519
KOTESHOV N P.....67-04 M06-67619
.....67-04 M17-66862
KOTHARI N C.....67-09 M09-77460
.....67-09 M09-78261
KOTHE A.....67-11 M14-80632
KOTIEVA L U.....67-02 M09-60894
KOTIK E M.....67-06 M17-70063
.....67-10 M17-78809
KOTIKOVA T D.....67-08 M15-74644
KOTILEVETS A A.....67-06 M14-70049
KOTINA M M.....67-04 M17-67964
KOTKIS M A.....67-04 M17-66877
KOTLENSKY W V.....67-09 M17-77140
KOTLYAR B I.....67-02 M14-59939
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KOTLYAR E E.....67-06 M14-69995
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KOTLYAR E N.....67-02 M17-61987
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KOTLYAR V I.....67-02 M13-62177
.....67-08 M13-75953
KOTLYAROV V G.....67-06 M02-70189
.....67-06 M02-70190
KOTOMLYANSKII A L.....67-07 M08-72855
KOTOV A P.....67-05 M04-68317
.....67-07 M04-72845
KOTOV B A.....67-10 M16-79444
KOTOV K I.....67-08 M04-74574
.....67-08 M04-76264
.....67-09 M04-77036
.....67-10 M04-79257
KOTOV V V.....67-03 M18-65060
.....67-07 M18-73978
KOTOVSKAYA N L.....67-02 M09-59613
.....67-09 M03-77050
.....67-09 M09-76931
KOTOWSKI ALFONS.....67-04 M04-67222
.....67-04 M04-67223
KOTRBOVA M.....67-02 M15-61095
KOTRUBENKO B P.....67-11 M01-80234
KOTSCH H.....67-05 M14-69060
KOTSCH HEINZ.....67-11 M09-80340
KOTTCAMP E H.....67-01 M17-58461
.....67-03 M07-65761
KOTUA EDWARD.....67-10 M03-79866
KOUBA E F.....67-09 M03-77119
KOUDINOFF E.....67-02 M11-59755
KOULMANN JEAN JACQUES.....67-02 M16-61020
KOUMANI GEORGES.....67-01 M17-57402
KOUMP V.....67-12 M14-82745
KOUNICKY J.....67-06 M10-70357
.....67-06 M14-71339
.....67-11 M10-81141
.....67-12 M14-83440
KOUTSKY J.....67-04 M17-67826
.....67-09 M04-77222
.....67-10 M17-79772
KOUTSKY JAROSLAV.....67-02 M17-60210
KOUVEL J S.....67-07 M15-73502
.....67-07 M15-73549
.....67-07 M15-73687
KOVAC Z.....67-07 M15-73547
KOVACH CURTIS W.....67-10 M08-79763
KOVACS CSETENYI E.....67-02 M14-61534
KOVACS I.....67-02 M14-61534
KOVAL A D.....67-08 M17-74965
KOVAL A E.....67-02 M04-60132
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KOVAL M YA.....67-04 M13-67982
KOVAL YU N.....67-05 M15-69643
KOVAL YU P.....67-06 M16-71776
KOVALCHENKO M S.....67-02 M01-60975
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KOVALCHIK T L.....67-09 M14-76849
KOVALCHUK KH U.....67-04 M02-67880
KOVALCHUK V S.....67-06 M12-72313
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KOVALENKO A M.....67-06 M04-70147
KOVALENKO L I.....67-06 M03-70161
KOVALENKO O I.....67-05 M17-68380
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KOVALENKO V G.....67-02 M04-62173
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.....67-09 M05-78075
.....67-12 M04-81701
KOVALENKO V S.....67-02 M17-61969
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KOVALENKO V S.....67-08 M04-74583
.....67-10 M17-78826
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KOVALEV A V.....67-09 M09-76840
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KOVALEV G N.....67-05 M13-68378
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.....67-10 M11-78407
KOVALEV P A.....67-09 M09-76871
KOVALEV P V.....67-08 M11-74379
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KOVALEV YU G.....67-02 M05-61803
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KOVALEV YU V.....67-02 M09-60174
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KOVALEVA A D.....67-01 M10-57264
KOVALEVA N M.....67-05 M07-68979
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KOVARSKII N YA.....67-05 M15-68738
KOVATS A.....67-02 M14-60898
KOVCHIK S E.....67-07 M18-73170
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KOVENSKAYA B A.....67-12 M15-83365
KOVENSKII I I.....67-02 M14-58994
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.....67-06 M15-72372
.....67-09 M15-77278
.....67-10 M14-78994
KOVENSKIY I I.....67-05 M16-68258
KOVENSKY I I.....67-04 M14-66262
KOVES WILLIAM JOHN.....67-12 M17-83130
KOVNATSKII V S.....67-02 M09-59678
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.....67-10 M09-79809
KOVNILOV I I.....67-09 M13-76942
.....67-09 M13-76943
KOVRIZHNYKH V G.....67-06 M17-70352
KOVSHIKOV E K.....67-03 M11-65061
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KOVTUN G P.....67-08 M15-75900
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.....67-12 M03-82112
KOVTUN P G.....67-05 M07-69439
KOVTUN S F.....67-01 M17-58129
.....67-02 M17-59832
.....67-08 M12-75097
.....67-11 M17-81163
KOVYLIN A YA.....67-09 M08-76444
KOVYNEV M V.....67-01 M12-58071
.....67-02 M07-62149
.....67-04 M07-68191
KOWAKA MASAMICHI.....67-01 M17-58249
.....67-02 M18-59466
.....67-08 M18-75804
KOWAKA MASAMICKI.....67-03 M18-65823
KOYAMA KAZUO.....67-02 M07-58939
KOYAMA KEIHI.....67-09 M03-78235
KOYAMA KEIJI.....67-09 M03-77254
KOYAMA KINICHI.....67-02 M08-59991
KOZACHEK V M.....67-12 M17-82631
KOZACHENKO M V.....67-02 M09-60582
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.....67-12 M09-83562
KOZAK B V.....67-09 M08-76441
KOZAK N N.....67-02 M14-61752
KOZAKEVITCH P.....67-02 M04-60866
.....67-08 M04-76230
KOZAKEVITCH PAUL.....67-08 M04-75313
KOZELJ D.....67-02 M03-58872
KOZELSKI JOZEF.....67-06 M12-71108
KOZHAKHMETOV S M.....67-08 M14-75873
KOZHEVNIKOG A P.....67-04 M11-66812
KOZHEVNIKOV A P.....67-08 M11-75916
.....67-09 M11-78124
KOZHEVNIKOV D V.....67-09 M08-76444
KOZHEVNIKOV G N.....67-02 M03-61611
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.....67-09 M03-76565
.....67-09 M03-77048
KOZHEVNIKOV V I.....67-06 M09-72326
KOZHEVROV V A.....67-02 M13-62253
KOZHITOV L V.....67-05 M03-69538
KOZICH E S.....67-02 M03-59737

KOZIELSKI J.....67-10 M10-79656
KOZIN G N.....67-01 M04-57177
.....67-06 M04-71251
.....67-08 M04-74576
.....67-08 M04-75720
KOZIN L F.....67-11 M15-81178
KOZINA G S.....67-10 M16-79462
KOZINETS V V.....67-02 M17-58897
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KOZIRSKII G YA.....67-09 M17-76981
KOZLENKOV L N.....67-05 M13-69627
KOZLOV E V.....67-06 M17-71371
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KOZLOV V I.....67-05 M15-68859
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KOZLOV V P.....67-04 M15-68011
KOZLOV YU I.....67-02 M07-59822
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.....67-02 M09-61783
.....67-02 M14-61983
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.....67-10 M14-78840
.....67-12 M08-81800
KOZLOVA I P.....67-07 M16-72509
KOZLOVA I R.....67-09 M16-76778
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KOZLOVA N A.....67-02 M17-61978
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.....67-10 M17-78835
KOZLOVA R P.....67-04 M17-66624
KOZLOVA T M.....67-02 M15-61919
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KOZLOVSKAYA V P.....67-01 M14-58292
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.....67-08 M07-76129
KOZLOVSKII I S.....67-08 M10-74972
KOZLOVSKIY I S.....67-07 M18-74176
KOZLOWSKI L.....67-02 M15-61037
KOZLOWSKI LUDWIK.....67-03 M14-65444
KOZMA A A.....67-01 M13-57349
.....67-02 M13-61676
KOZMANOV YU D.....67-08 M18-75260
KOZMIN YU A.....67-10 M03-79037
KOZMISKA DANUTA.....67-12 M03-82489
KOZUKA ZENSAKU.....67-02 M15-59990
KOZULIN G P.....67-08 M11-75909
KOZULIN M G.....67-11 M11-80545
KOZYAR A A.....67-08 M10-75487
KOZYLIN G P.....67-04 M11-66805
KOZYREV S P.....67-07 M17-72870
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KOZYREVA E N.....67-02 M17-58896
KOZYREVA L A.....67-02 M05-59776
.....67-04 M05-66584
KOZYRSKII G YA.....67-06 M17-71134
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.....67-10 M17-78379
KPCSO V S.....67-02 M04-59870
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KRAFT GUNTHER.....67-05 M19-69120
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KRASAVIN B S.....67-01 M06-57322
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KRASNY DALIBOR.....67-11 M04-80422
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KRAUS HERBERT.....67-09 M12-76629
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.....67-01 M13-57109
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KRAUTKRAMER JOSEF.....67-05 M19-68396
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KRAVTSOV I M.....67-09 M03-76865
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KRAYCHIK M M.....67-07 M11-72736
KRAYNOVA I F.....67-09 M15-76766
KRAYNY A G.....67-02 M01-60975
KREAGER JAMES D.....67-09 M08-77002
KREBS K.....67-01 M14-58659
KREBS W MICHAEL.....67-12 M12-82457
KRECHETOVA I P.....67-10 M15-79461
KRECHMER V G.....67-08 M17-74342
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KREIDER K G.....67-07 M09-73358
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KREITNER F.....67-04 M10-67207
KREJCI J.....67-06 M17-70592
KREJCIRIK LIBOR.....67-09 M03-76811
KREMEN E I.....67-01 M12-57333
KREMER K J.....67-05 M07-69159
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KREMPASKY J.....67-11 M15-80607
KREMPL ERHARD.....67-07 M17-73707
KREN E.....67-05 M15-69375
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KRENDELEV V L.....67-08 M02-76263
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KRENZEL FRANCISZEK.....67-11 M03-81622
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KRESSNER BERNHARDT E.....67-06 M14-70974
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KRIGER E M.....67-08 M09-75424
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KRIKORIAN N H.....67-06 M14-70892
KRIMMEL E F.....67-04 M12-67057
KRIMSKY S.....67-03 M15-65877
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KRISTAL M M.....67-07 M18-72872
KRITIN D I.....67-02 M02-62157
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KRIVENCHKO YU S.....67-08 M04-74576
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KRIVOGLAZ M A.....67-05 M16-69639
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KROCHMAL JOZEF.....67-02 M03-59573
KROCK R H.....67-06 M17-70686
KROHN ALBERTINE.....67-04 M12-68111
KROKO L J.....67-02 M14-61502
KROL J.....67-08 M17-76224
KROMER P F.....67-03 M16-65632
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KRONENBER M.....67-04 M07-68057
KRONENBERG M.....67-04 M07-67226
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KRONMULLER H.....67-02 M15-61821
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KRONMULLER HELMUT.....67-07 M17-73065
KROP K.....67-02 M15-61037
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KROP KAROL.....67-03 M14-65444
KROSE G.....67-12 M15-82224
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KROUPA F.....67-03 M13-65220
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KRUPMAN L I.....67-10 M07-79815
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KRUSTALKOV A A.....67-02 M04-62141
KRUSZEWSKA OLGA.....67-09 M03-77761
KRUSZEWSKI KIEMENS.....67-09 M03-77761
KRUTASOVA E I.....67-12 M14-82154
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KSHIRSAGAR S T.....67-11 M13-81678
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KUBAREVA N I.....67-04 M03-67524
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KUCERA J.....67-06 M14-70325
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KUFAREW G L.....67-08 M17-75567
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KUFUDAKS A.....67-04 M17-66045
KUGAI KEIJIRO.....67-02 M07-60756
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KUMAR R L.....67-10 M06-78773
KUMAR RAJENDRA.....67-11 M16-81345
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KUNATH HANS.....67-10 M03-78314
KUNCHENKO V V.....67-10 M13-78355
KUNCHEV N.....67-06 M03-71872
KUNCHEV NIKOLA.....67-11 M03-81619
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KUNITOMI AKIRA.....67-02 M11-60042
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KUO KE HSIN.....67-08 M13-75075
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KUPFER R.....67-10 M20-78480
KUPPERS WERNER.....67-12 M07-83293
KUPRINA V V.....67-09 M13-76964
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.....67-12 M04-81707
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KURIAT R I.....67-02 M17-59641
KURIHARA KENSUKE.....67-02 M17-61027
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KURZ WILLIAM W.....67-08 M12-75707
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KURZEJA JOSEF.....67-02 M14-59108
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KUZMAK E M.....67-02 M11-60833
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KUZMANY H.....67-04 M17-68008
KUZMANY HANS.....67-06 M14-71863
KUZMENKO I A.....67-06 M15-70522

KUZMENKO I V.....67-02 M13-62182
KUZMENKO N V.....67-08 M13-75958
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KUZMENKO V M.....67-01 M16-58169
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KUZMENKOV L G.....67-11 M11-80647
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.....67-11 M13-80178
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KUZNETSOV A V.....67-12 M04-83467
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KUZNETSOV D I.....67-11 M04-81412
KUZNETSOV E N.....67-08 M15-74894
KUZNETSOV F A.....67-09 M14-76851
KUZNETSOV F S.....67-07 M07-73197
KUZNETSOV G A.....67-04 M06-67502
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KUZNETSOV G D.....67-07 M18-73656
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KUZNETSOV L I.....67-04 M17-66850
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.....67-07 M02-73414
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KUZNETSOV V A.....67-04 M11-67803
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KUZNETSOV V D.....67-08 M08-76058
KUZNETSOV V G.....67-11 M16-80175
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KUZNETSOV V P.....67-02 M15-61659
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KUZNETSOV V V.....67-07 M18-73649
KUZNETSOV V YE.....67-02 M15-61664
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KUZNETSOV YU S.....67-02 M13-62253
KUZNETSOVA A P.....67-06 M16-72350
KUZNETSOVA E A.....67-02 M17-59765
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.....67-05 M14-69248
.....67-08 M17-76123
KUZNETSOVA G A.....67-10 M03-79036

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KUZNETSOVA M I.....67-01 M18-58049
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KUZNETSOVA R I.....67-06 M14-69991
KUZNETSOVA S K.....67-05 M13-68405
KUZNETSOVA S M.....67-11 M13-81174
KUZNETSOVA V G.....67-01 M13-58147
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KUZNETSOVA V L.....67-07 M18-72615
KUZNETSOVA V N.....67-01 M18-58706
KUZNETSOVA V P.....67-10 M03-79133
KUZNETSOVA YU S.....67-08 M03-75872
KUZOVKOV V K.....67-08 M06-74544
KUZUB V S.....67-09 M18-77093
KUZYUKOV A N.....67-03 M18-65060
.....67-07 M18-73198
KVAM T.....67-05 M14-69749
KVAS O F.....67-12 M09-83557
KVASHNINA L B.....67-05 M16-69639
KVATER L I.....67-06 M17-69977
KVAYCH V.....67-08 M09-74320
KVITKO M P.....67-04 M04-66204
.....67-04 M04-66704
.....67-04 M04-66706
.....67-04 M04-66847
.....67-04 M04-67095
.....67-04 M04-67229
.....67-11 M04-80850
KVURT O S.....67-01 M13-58046
KVYATKOVSKII A N.....67-11 M13-81452
KVYATOVSKII A N.....67-09 M03-76889
KWASNITZA K.....67-01 M16-57959
KWIECIEN W.....67-02 M03-59562
KY VU-DINH.....67-02 M15-61119
KYACHENKO V V.....67-11 M11-80549
KYDOYAROV M S.....67-07 M04-73772
KYLE J K.....67-06 M06-69952
KYLE M L.....67-06 M01-70714
KYROEDOV V A.....67-12 M10-82068
KYSER D F.....67-04 M14-66762

LA BLANCHETAIS CHARLOTTE HENRY.....67-12 M13-82513
LA ROY B.....67-07 M15-73936
LA VECCHIA AURELIO.....67-01 M13-58305
.....67-09 M13-78268
LABARDE J P.....67-08 M08-75859
LABAT JEAN.....67-12 M14-81813
LABBE J.....67-11 M16-81390
.....67-11 M16-81391
LABERGERE J.....67-09 M12-77645
LABERGERE JEAN.....67-12 M12-82655
LABODA M A.....67-03 M08-65039
.....67-05 M08-68304
LABODA MITCHELL A.....67-07 M08-72795
.....67-09 M08-77907
.....67-09 M08-77908
.....67-11 M08-80828
.....67-11 M08-80829
LABUS J.....67-07 M04-73246
LABUSCH R.....67-06 M16-70987
LABUSCH REINER.....67-05 M17-69846
LACEFIELD K.....67-11 M17-80631
LACHAT D P.....67-05 M18-69147
LACHAUX M H.....67-08 M04-75793
LACHENAUD R.....67-02 M20-61997
LACHNER WALTER.....67-09 M04-77584
LACKLISON D E.....67-11 M15-80301
LACKMANN H H.....67-04 M02-66297
LACKMANN HEINZ HELMUT.....67-09 M15-77497
LACMANN BRIGITTE.....67-05 M10-68763
LACOMBE J.....67-06 M16-71185
LACOMBE P.....67-02 M04-58924
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.....67-04 M14-67462
.....67-04 M15-66665
.....67-05 M18-69113
.....67-11 M13-80248
.....67-11 M14-80357
LACOMBE PAUL.....67-03 M14-65558
LACOUDE M.....67-08 M14-76211
LACROIX R.....67-05 M18-69116
LACY KARL.....67-04 M07-66889
.....67-05 M09-68305
.....67-11 M04-80769
LADANY I.....67-03 M14-65896
LADD ROBERT L.....67-10 M13-80000
LADELL B J.....67-03 M09-65672
LADYGIN A YA.....67-02 M17-59555

LADYGO A S.....67-10 M14-79920
LADYZHENSKAYA F M.....67-08 M12-76285
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LADYZHENSKII B N.....67-01 M04-58093
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.....67-02 M04-60057
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LAFAY F.....67-04 M19-67399
.....67-08 M13-75797
LAFITAU HENRI.....67-04 M14-66339
LAGAREVA Z I.....67-08 M17-76033
LAGNEBORG R.....67-02 M13-59435
.....67-06 M13-71080
LAGOWSKI B.....67-10 M19-79751
LAGUNOV YU V.....67-02 M04-59863
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LAGUNOVA T S.....67-01 M15-57652
LAHIRI A K.....67-10 M17-78607
LAHTI J A.....67-01 M14-58585
LAI S C.....67-07 M14-73448
LAID YA P.....67-04 M17-66003
LAINER A I.....67-02 M02-62049
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LAINER E V.....67-03 M13-65105
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LAIPER D I.....67-01 M14-58047
LAIRD C.....67-04 M14-66538
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.....67-12 M10-83484
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.....67-12 M17-82735
LAITINEN H A.....67-11 M19-80133
LAIZEROVA M M.....67-04 M17-67822
LAKATOS LADISLAV.....67-12 M11-81747
LAKE J A.....67-08 M20-74835
LAKERNIK M M.....67-05 M03-68225
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LAKEY L T.....67-06 M16-71019
LAKH V I.....67-02 M13-59889
.....67-07 M13-73278
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LAKHOZVYANSKII I G.....67-04 M08-67017
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LAKHTIN YU M.....67-07 M10-74177
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LAKIN YU G.....67-08 M09-75463
LAKIZA S P.....67-01 M11-58274
.....67-04 M11-67355
LAKKUNDI S S.....67-10 M10-78609
LAKOMSKII V I.....67-01 M19-58206
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.....67-04 M04-67165
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.....67-12 M14-82027
LAKOMSKIY V I.....67-12 M14-82165
LAKSHMANAN RAMASWAMY.....67-10 M17-79062
LAKSHMINARASIMHAN R.....67-08 M09-75389
LAKSHMINARASIMHAN V.....67-06 M12-71068
LAKSO G.....67-09 M13-77440
LAKTIONOV P YA.....67-02 M07-58876
LAL R B.....67-03 M15-65919
LALAK J J.....67-06 M11-71693
LALLEMAND M.....67-11 M14-80247
LALLEMAND MONIQUE.....67-09 M14-78011
LALLEMANT MICHEL.....67-12 M15-83158
LALLEMENT R.....67-09 M15-76311
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LALLY J S.....67-06 M17-71535
LAM D J.....67-02 M15-59060
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LAMARCHE J L G.....67-04 M16-68162
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LAMB A D.....67-05 M17-69141
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.....67-07 M08-74255
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LAMBERT V L.....67-09 M14-77456
LAMBLE J H.....67-02 M17-59714
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LAMBRECHT J.....67-09 M04-77224
LAMENS H.....67-11 M11-81005
LAMIKHOV L K.....67-02 M03-58881
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LAMIN A B.....67-12 M07-83410
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LAMONT J A.....67-01 M04-58453
LAMPWIRTH R.....67-03 M13-65427
LAMTSEV L A.....67-11 M04-81305
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LAMZOVA M V.....67-01 M03-58195
LANCASTER J K.....67-06 M17-71030
LANCELLOTTI G.....67-05 M11-69168
LAND C C.....67-03 M14-65087
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LANDAL L A.....67-08 M09-74916
LANDECKER K.....67-11 M15-80508
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LANDEGREN W.....67-01 M18-58365
LANDER HARVEY J.....67-10 M11-79194
LANDERS J E.....67-03 M18-65755
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LANDSBERG P T.....67-08 M16-76082
LANDWEHR G.....67-04 M16-66770
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LANE J R.....67-06 M07-70124
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LANG A R.....67-05 M14-68753
LANG H.....67-01 M17-58342
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LANGAS E A.....67-08 M17-75354
LANGDON T G.....67-05 M13-68659
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LANGE ALFRED.....67-08 M03-74445
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LANGE EKKEHARD.....67-01 M03-57289
LANGE F F.....67-09 M17-77426
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LANGE V N.....67-01 M17-58096
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.....67-11 M15-80171
LANGE W.....67-03 M14-65368
.....67-03 M14-65369
LANGE WERNER.....67-02 M14-60881
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LANGE Z I.....67-07 M10-74148
LANGENBERG F C.....67-10 M04-78617
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LANGENECKER B.....67-03 M08-65620
LANGENSCHEID G.....67-01 M13-57385
LANGENSCHEID GERHARD.....67-06 M13-71753

LANGENSCHEIDT G.....67-07 M13-73258
LANGER A.....67-05 M14-68615
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LANGERON J P.....67-01 M03-58378
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LANGERWEGER J.....67-06 M17-70980
LANGFORD G J.....67-01 M11-58772
LANGHAMMER H J.....67-07 M04-72563
LANGHAMMER HANS JURGEN.....67-09 M04-77230
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LANGHEINRICH W.....67-06 M12-71196
LANGMAN R D.....67-04 M04-67189
.....67-11 M04-81138
LANGRETH DAVID C.....67-07 M15-73942
LANGSTAFF R D.....67-05 M18-68312
LANGSTON MERRITT E.....67-05 M20-68685
LANGSTONE P F.....67-06 M17-72185
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LANITSKII V I.....67-06 M04-70181
LANKAU GUNTHER.....67-04 M17-67411
LANKIN P A.....67-09 M10-77404
LANKIN YU N.....67-11 M11-80641
LANNEFORS G A.....67-04 M15-68028
LANTZKY JOZSEF.....67-12 M12-82906
LANUSSE P.....67-01 M17-57609
LANZA F.....67-12 M17-82811
LAPCHINSKII V F.....67-01 M11-58275
LAPCHINSKII V P.....67-04 M11-67356
LAPCHINSKIY V F.....67-12 M11-82623
LAPENKOV M F.....67-06 M14-72369
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LAPEYRADE L.....67-11 M06-80572
LAPIERRE A G.....67-02 M13-61662
LAPIN A A.....67-05 M03-68959
LAPINA N V.....67-02 M10-61754
LAPINSKA IRENA.....67-09 M12-77194
LAPITSKII V I.....67-01 M04-57176
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.....67-05 M13-69148
LAPLANCHE HENRI.....67-05 M20-68913
.....67-09 M14-77670
LAPOTKO A G.....67-04 M11-67013
.....67-08 M11-74772
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LAPTEV S F.....67-11 M02-81503
LAPTEV V K.....67-02 M04-61956
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LARDNER E.....67-07 M18-74163
LARDNER R W.....67-08 M17-75781
LARICHKIN V L.....67-04 M06-66097
LARIKOV L N.....67-02 M17-62179
.....67-04 M14-66039
.....67-04 M15-66863
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.....67-08 M17-75955
.....67-09 M14-77749
.....67-10 M14-79723
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.....67-10 M18-78960
.....67-11 M10-81421
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LARIKOVA L N.....67-05 M14-69650
LARIN A M.....67-02 M06-61007
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.....67-02 M02-58879
LARIN V F.....67-02 M02-59845
.....67-06 M03-71303
.....67-11 M03-80752
LARIN V S.....67-12 M06-82617
LARINA N E.....67-07 M03-73418
LARINA O D.....67-09 M19-76978
.....67-10 M13-80036
LARIONOVA I E.....67-12 M03-82408
LARKIN C F.....67-02 M07-59008
LARRISON K L.....67-06 M18-72338
LARSEN BADSE J.....67-02 M17-59431
LARSEN E I.....67-08 M20-75630
LARSEN P K.....67-08 M16-75831
LARSEN W L.....67-07 M14-74229
.....67-07 M14-74231
LARSEN WL.....67-07 M14-74230
LARSON A H.....67-02 M14-59424
.....67-03 M14-65097
.....67-12 M13-82565
LARSON ALLEN C.....67-10 M13-78561
LARSON C O.....67-08 M16-74660
LARSON D.....67-04 M15-67661
LARSON DONALD B.....67-08 M14-75116
LARSON H W.....67-10 M15-79162
LARSSON L E.....67-04 M14-66534
LASA ONATIVIA JOSE.....67-12 M08-81923
LASAREVA M B.....67-03 M17-65265
LASCHIMKE RALF.....67-09 M18-77351
LASCOE O D.....67-06 M08-71448
LASCU SIMION N.....67-01 M17-58174
.....67-04 M17-67136
LASDAY ALBERT H.....67-07 M09-73348
LASHIN V V.....67-09 M10-76412
LASHKO A S.....67-11 M14-81637
LASHKO N F.....67-04 M11-66571
.....67-05 M17-68367
.....67-07 M11-73428
.....67-08 M10-74997
LASHKO S V.....67-01 M11-58209
.....67-04 M11-66571
.....67-07 M11-73428
LASKARONSKII E N.....67-01 M04-57672
LASKEY J.....67-06 M07-70804
LASKORIN B N.....67-05 M03-68224
LASKORIN V N.....67-07 M03-73409
LASSEN ERIC.....67-01 M04-58503
LASSNER E.....67-07 M19-73893
.....67-12 M19-81823
.....67-12 M19-81824
LASSOTA D T.....67-03 M16-65430
LASSOTA J.....67-06 M13-70341
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LASSOTA K.....67-01 M19-57607
.....67-07 M17-73245
LASSUS MARC.....67-10 M13-79587
.....67-10 M14-79706
LAST A J.....67-10 M02-79563
LASTOVITSKAYA K S.....67-04 M04-66211
LASZLO T S.....67-05 M14-68286
LATASH YU V.....67-05 M03-68233
LATATUEV V I.....67-01 M12-58712
LATIERE H J.....67-08 M13-76218
.....67-08 M14-76219
.....67-10 M14-80020
.....67-10 M14-80021
LATIERE HENRI JEAN.....67-06 M14-70254
LATKA H.....67-10 M08-78660
LATKOWSKI A.....67-08 M17-76224
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.....67-12 M17-83499
LATOUR ALFRED.....67-12 M04-83346
LAU S S.....67-06 M13-70411
LAUB H.....67-02 M18-59972
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.....67-08 M18-75669
.....67-09 M18-78177
LAUBE E.....67-04 M16-66910
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LAUBITZ M J.....67-03 M15-65693
LAUBSCHER A N.....67-01 M12-57547
LAUCHNER EDWARD A.....67-05 M13-68677
LAUE H J.....67-07 M12-73465
LAUE KURT.....67-12 M07-82044
LAUFER E E.....67-07 M17-72660
LAUFF H P.....67-07 M04-72911

LAUGIER ANDRE.....67-03 M14-65772
LAUQUE J P.....67-03 M17-65554
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LAURIE G H.....67-02 M15-59421
LAURIE H A.....67-03 M18-65730
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LAUROUA RAYMOND.....67-02 M08-59093
LAUTENSCHLAGER E P.....67-08 M13-75219
LAUTENSCHLAGER H.....67-07 M07-74021
LAVELLE D L.....67-03 M06-65004
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LAVELLE E B.....67-01 M11-57977
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LAVENDEL H W.....67-06 M18-69926
LAVER P J.....67-02 M04-61655
LAVERICK C.....67-11 M16-80335
LAVERLOCHERE J.....67-03 M19-65253
LAVES F.....67-04 M14-67253
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LAVES FRITZ.....67-11 M16-81106
LAVIK MELVIN T.....67-08 M14-76196
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LAVIS D A.....67-06 M15-71286
LAVRENTEV M I.....67-09 M03-77114
LAVRENTEV V M.....67-06 M08-70148
LAVRENTYEV F F.....67-04 M13-67647
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LAVRINENKO I A.....67-02 M09-62209
LAVROV A P.....67-06 M18-70191
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LAVROV V A.....67-02 M11-59643
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LAWLEY ALAN.....67-07 M17-73684
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LAWRENCE J E.....67-07 M14-72885
LAWRENCE P E.....67-07 M16-72663
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LAX B.....67-07 M15-73302
LAY OLLIE.....67-10 M08-79531
LAYNE HAROLD B.....67-11 M18-80512
LAYNER A I.....67-06 M03-71307
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LAZAREVIC D.....67-04 M13-67161
LAZAROV D.....67-04 M15-67241
LAZARUS D.....67-05 M14-69819
LE BOT A.....67-03 M13-65264
LE BOUC M.....67-02 M17-61964
LE BOUCHER.....67-12 M18-82351
LE CHEN YUI.....67-02 M11-61044
LE CLAIRE A D.....67-06 M14-71973
LE GAL J.....67-12 M17-83495
LE GOFF P.....67-02 M10-60984
LE GRAND RUPERT.....67-02 M08-59032
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LEAO ELIZABETH C.....67-03 M19-65022
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LEARY R J.....67-09 M04-76748
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LEDERGERBER A.....67-08 M08-75842
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LEGER MARIE THERESE.....67-02 M14-60504
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LEGKOSTUP O I.....67-02 M07-59693
LEGLER I.....67-04 M04-66210
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LEHMANN HANS.....67-07 M04-73266
LEHMANN WERNER.....67-07 M04-74105
LEHNERT GUNTER.....67-03 M18-65706
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LEHNERT WOLFGANG.....67-07 M18-73229
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LEIBFRIED G.....67-10 M16-78311
LEICH W.....67-05 M06-69310
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LEISOV YE I.....67-09 M04-76575
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LEISTIKOW S.....67-08 M18-76140
LEITE R C C.....67-09 M16-77176
LEITNAKER J M.....67-06 M15-70888
LEITZKE V A.....67-12 M04-83595
LEIZEROVICH G YA.....67-09 M02-76872
LEKARENKO YE M.....67-04 M09-66880
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LELE S.....67-07 M13-72938
LELE SHRIKANT.....67-06 M13-71661
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LELONG C P.....67-04 M14-66674
LELONG P.....67-03 M14-65561
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LEMAIRE R.....67-01 M15-58648
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LEMAIRE REMY.....67-10 M13-79588
.....67-10 M13-79685
LEMBERGIER S.....67-02 M04-59499
LEMKE TIMOTHY.....67-12 M11-82469
LEMKEY F.....67-07 M09-73362
LEMMENS M C.....67-05 M17-69770
LEMOINE GEORGES.....67-01 M17-57402
LEMONS JOE FRED.....67-12 M15-82458
LENA ADOLPH J.....67-10 M01-79753
LENAR E J.....67-01 M10-58448
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LENEL F V.....67-04 M17-66935
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LENEV L M.....67-12 M13-82407
LENGER F.....67-08 M04-74468
LENIDOVA M N.....67-09 M04-77623
LENIVKIN V A.....67-02 M11-59515
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LENNARTZ G.....67-07 M14-73025
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LENNERT A E.....67-08 M12-75041
LENOE E M.....67-11 M17-80691
LENTHALL A.....67-07 M06-73122
LENTS R O.....67-02 M17-59686
LENYASHIN V B.....67-02 M07-60065
LENZ DIETER.....67-04 M20-67703
LENZ EHUD.....67-03 M08-65989
LENZE FRANZ JOSEF.....67-11 M07-80363
LENZI P L.....67-11 M11-80392
LEO W.....67-05 M14-68581
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LEO WOLFGANG.....67-11 M14-80376
LEOGRANDE A.....67-05 M17-69586
LEONARD J.....67-04 M17-66661
LEONARD L.....67-04 M17-66189
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LEONIDOVA M N.....67-11 M04-80911
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LEONOVA I K.....67-11 M10-80929

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LEOPOLD HEIMO.....67-12 M03-82665
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LEPERE HENRI.....67-09 M12-77643
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LEPETA B G.....67-08 M06-76273
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LEPETIT H.....67-03 M19-65252
LEPIE GEORG.....67-09 M14-77344
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LEPIN L K.....67-11 M18-81279
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LEPP V R.....67-02 M11-60013
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LEPRINCE RINGUET FRANCOIS.....67-12 M13-82448
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LERKACH A S.....67-11 M03-81226
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LEROY VINCENT.....67-04 M13-67258
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LESBATS M P.....67-12 M13-83519
LESBATS PIERRE.....67-03 M14-65548
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LESHAWA T I.....67-07 M12-73178
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LEWTHWAITE G W.....67-10 M17-79338
LEYAROVSKA L.....67-12 M14-81830
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LEYMONIE C.....67-01 M14-57170
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LEYNACHUK E I.....67-06 M11-72311
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LEYSHON H J.....67-08 M04-74800
LEYTSIN V A.....67-08 M03-75204
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LHOMME P J.....67-12 M14-83520
LI A M.....67-10 M02-79827
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LI J C M.....67-07 M17-73914
LI JAMES C M.....67-07 M13-73057
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LIBBERECHT A.....67-11 M18-80358
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LICHTMAN V J.....67-09 M17-76720
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LIEBRICH MANFRED.....67-01 M17-58284
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LIESTMANN WULF DIETRICH.....67-07 M04-72723
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LIHL F.....67-12 M18-83142
LIHL FRANZ.....67-11 M13-80378
LIHORADOV A P.....67-05 M02-69676
LIKHACHEV V A.....67-05 M17-69612
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LIKHOSHERSTOV D M.....67-12 M04-83470
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LIKHTMAN V I.....67-07 M09-74115
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LILEEV A S.....67-06 M14-70285
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LIMONS R A.....67-01 M02-57511
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LINDSKOG L.....67-09 M04-76422
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LIU CHI HUNG.....67-10 M13-80027
LIU CHING CHI.....67-10 M13-80027
LIU TUNG.....67-10 M17-78550
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LLOYD H K.....67-05 M01-68496
LLOYD J N.....67-10 M15-79998
LLOYD L T.....67-09 M14-76303
LLYICHEV V A.....67-08 M02-75149
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LO JOHN M.....67-02 M15-59433
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LOASBY R G.....67-09 M15-76312
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LOBDELL A J.....67-04 M17-67897
LOBEMEIER FRIEDHELM.....67-09 M04-76501
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LOBUZNOV A A.....67-06 M02-72107
LOCHER P R.....67-07 M15-73297
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LOCKINGTON N A.....67-08 M09-75292
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LOCKWOOD L F.....67-07 M11-74282
LOCKYRE G E.....67-08 M19-75522
LODDING A.....67-03 M14-65201
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LODDING WILLIAM.....67-04 M02-68046
LODEISHCHIKOV V V.....67-01 M03-58194
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LOEUILLET M.....67-03 M19-65250
LOEWEN PETER.....67-11 M07-80367
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LOGEROT J M.....67-03 M17-65283
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LOGI P.....67-09 M19-78290
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LOGOMERAC VLADIMIR.....67-10 M03-79860
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LOGUNOV L A.....67-12 M20-83386
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LONC W P.....67-01 M15-58417
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LUCASSON P.....67-08 M14-76212
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LUDEMANN KARL-FREIDRICH.....67-12 M04-81958
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MACEK K.....67-02 M14-58894
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MACFARLANE RICHARD R.....67-05 M10-68676
MACH DOMINIK.....67-06 M14-71667
MACH JAN.....67-09 M04-76816
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MACHEVSKAYA R A.....67-05 M18-69493
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MIRABEL H.....67-12 M15-82756
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MUSGEN BRUNO.....67-12 M17-81936
MUSHKUDIANI Z A.....67-10 M04-78423
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MUSIL J.....67-01 M19-58732
MUSIYACHENKO V F.....67-01 M17-58273
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MUSKAT DAVID A.....67-09 M04-76475
MUSSINGER W.....67-12 M12-82460
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MYAGKOVA T M.....67-09 M02-77762
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MYAKSHIN O A.....67-05 M12-68238

MYASNIKOV P A.....67-02 M03-59700
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.....67-03 M18-65757
.....67-05 M18-69474
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MYERS M B.....67-10 M16-79369
MYERS R A.....67-02 M15-60686
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MYLES K M.....67-02 M15-59060
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MYLONAS C.....67-02 M17-60803
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NABARRO F R N.....67-06 M14-71521
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NABATOVA I A.....67-02 M17-59765
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NABER C T.....67-06 M16-72178
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NABOYCHENKO S S.....67-02 M03-59191
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NAKAZAWA OSAMU.....67-09 M13-77991
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NALINI P.....67-07 M08-72855
NALIVKIN V A.....67-10 M03-79377
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NAM KIM GEN.....67-11 M11-81582
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NAMBA SHINGO.....67-06 M14-70848
NAMBOODIRI P M NARAYANAN.....67-07 M15-74013
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NANEGIN YU V.....67-01 M18-58124
NANEV CHR.....67-04 M17-66451
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NAOUMIDIS A.....67-02 M17-59721
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.....67-12 M09-83556
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NEDODAEV YU M.....67-12 M11-82634
NEDOPIL ERICH.....67-08 M19-75112
NEDOREZOV S S.....67-06 M16-71912
NEDOSEKA A YA.....67-04 M11-66805
NEDOSVITII V P.....67-08 M05-74888
NEDUMOV N A.....67-01 M14-57135
.....67-08 M15-75888
NEDYUKHA I M.....67-02 M17-61178
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.....67-12 M17-82497
NEDZELSKII M D.....67-09 M12-76559
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NEDZVETSKII V G.....67-04 M11-66576
.....67-07 M11-73433
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NEELEY A C.....67-01 M09-58683
NEELY J E.....67-09 M05-76455
NEELY L F.....67-04 M08-66354
NEEMUCHWALA N D.....67-09 M12-77652
NEEPER D A.....67-08 M15-74664
NEFEDOV A A.....67-04 M12-66618
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NEGODAEV V A.....67-04 M11-66475
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NEGRERIE M.....67-02 M12-61999
NEGRISIN V.....67-12 M07-82387
NEIDA A R VON.....67-07 M14-73591
NEIDER R F.....67-11 M02-81148
NEIDIS I B.....67-04 M11-67937
NEIFELD I E.....67-04 M19-66876
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NEIGHBOR J E.....67-06 M15-71065
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NEIMARK L A.....67-08 M10-75487
NEITZEL M.....67-02 M17-59812
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NEITZEL MANFRED.....67-02 M11-60105
NEKHENDZI YU A.....67-02 M14-61016
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NEKLYUDOV I M.....67-05 M17-69655
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NEKRASOV YU I.....67-01 M11-57372
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NEKRASOVA S Z.....67-02 M10-61949
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NELEN N M.....67-02 M03-60954
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NELSON C W.....67-03 M17-65871
NELSON F W.....67-09 M01-77911
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NELSON J A.....67-05 M05-69571
NELSON JAMES A.....67-07 M13-73125
NELSON JEROME W.....67-02 M11-60952
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NELSON PAUL G.....67-05 M20-69494
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NEMETS I I.....67-07 M05-72614
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NEMIROVSKII V V.....67-10 M14-79224
NEMKINA E D.....67-05 M13-69611
NEMKOV V S.....67-01 M10-58196
NEMNONO V.....67-08 M13-74273
NEMNONOV S A.....67-01 M16-57341
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.....67-08 M13-74646
.....67-09 M13-77774

NEMNONOV S A.....67-12 M16-82329
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NENNO SOJI.....67-07 M13-73146
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NEPOMNYASHCHAYA E Z.....67-12 M17-83534
NEPOVINNYKH V YA.....67-09 M11-77616
NEPPER JOSEPH.....67-07 M04-72891
NEPSHA A V.....67-07 M05-72608
NEREO G E.....67-12 M06-82766
NERESON N.....67-02 M15-61837
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NESBET R K.....67-10 M15-79148
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NESSIUS A.....67-10 M01-78853
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NESSIUS M A.....67-02 M10-59805
NESTEOVA O P.....67-06 M13-70185
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NESTEROVICH R P.....67-11 M04-81041
NESTLER C G.....67-12 M18-82689
NESTLER CARL GEORG.....67-06 M19-70052
NESTLER HELMUT.....67-08 M03-75693
NESTOROV B M.....67-07 M11-72735
NESTOROVA P.....67-12 M02-83442
NESTOROVA S.....67-04 M17-67436
NETHERCOT A H JR.....67-01 M15-57114
NETHERCOTT R B.....67-01 M16-57971
NETREBA V T.....67-11 M18-81283
NETREBKO P G.....67-02 M04-61953
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NETTER WILLIAM S.....67-07 M18-73752
NETTHOFEL FELIX.....67-09 M17-78191
NEUBERGER A.....67-07 M19-72898
NEUBERT W.....67-02 M12-59415
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NEUDECKER H.....67-08 M04-76166
NEUFELD P.....67-06 M18-70544
NEUGEBAUER C A.....67-08 M15-74716
NEUGEBAUER JENO.....67-09 M09-76898
NEUHAUS H.....67-07 M04-72563
NEUHAUSER H.....67-01 M17-58633
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NEUKOMM H R.....67-01 M16-58635
NEUMANN A.....67-06 M19-71834
NEUMANN ALEXIS.....67-09 M17-77307
NEUMANN FRANZ.....67-01 M06-57595
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.....67-09 M15-77843
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NEUMANN J P.....67-07 M15-72638
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NEUMANN W.....67-02 M06-60046
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NEUMANN WALDEMAR.....67-09 M17-76520
NEUMEIER L A.....67-08 M13-75309
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NEUNZIG H.....67-09 M12-78174
NEUSCHUTZ DIETER.....67-02 M14-62248
NEUSCHUTZ EBERHARD.....67-09 M07-76505
NEUSTADTER H E.....67-04 M16-67740
NEUSTROEV G N.....67-08 M10-76044
NEUSTROEV L S.....67-09 M02-76933
NEVEDOMSKAYA I N.....67-02 M04-60079
NEVITT M V.....67-07 M13-73673
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NEVSKAYA L V.....67-06 M15-70969
NEVSKII A S.....67-02 M15-58858
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NEVZOROV YU A.....67-05 M09-69058
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NEWBEGIN R L.....67-08 M18-75775
NEWBOWER R S.....67-06 M15-71065
NEWBY J R.....67-04 M17-66141
NEWBY JOHN R.....67-06 M07-70722
NEWCOMB PAUL W.....67-07 M09-73964
NEWEY C W A.....67-04 M10-68160
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NEWHOUSE DAVID L.....67-06 M20-70726
NEWKIRK HERBERT W.....67-08 M17-76097
NEWKIRK J B.....67-11 M13-80135
NEWMAN G T.....67-10 M17-79590
NEWMAN R C.....67-08 M16-75833
NEWMAN R P.....67-02 M17-60912
NEWMAN R W.....67-10 M13-78916
NEWNS G R.....67-06 M12-72171
NEWPORT J J.....67-03 M18-65473
NEWSHAM D M T.....67-03 M16-65035
NEWSON E R.....67-09 M17-76603
NEWTON C J.....67-01 M13-57122
NEWTON R C.....67-10 M16-79414
NEYASOV A G.....67-05 M02-68735
NEYRET M R.....67-04 M15-67295
NEYRET R.....67-05 M06-69187
NEZHEVENKO L B.....67-09 M09-76840
NG S C.....67-06 M16-70088
NGUYEN COUTOUT B.....67-12 M12-82607
NGUYEN NGHI.....67-12 M15-82537
NGUYEN VAN V.....67-05 M13-69038
NI L P.....67-02 M02-61547
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NIBBERING IR J J W.....67-01 M17-58599
NIBBERING J J W.....67-03 M17-65309
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NIBERLEIN VERNON A.....67-01 M18-58514
NIBLETT D H.....67-04 M17-66224
NICHIPOROVICH G F.....67-08 M09-74914
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.....67-02 M13-61725
.....67-03 M03-65579
.....67-09 M03-77122
NICHKOVA M M.....67-01 M10-57352
NICHOL WILBERT G.....67-10 M08-78620
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NICHOLAS M.....67-03 M15-65080
NICHOLAS M G.....67-09 M15-77473

NICHOLLS A A.....67-08 M12-75177
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NICHOLLS JOHN H.....67-06 M12-72184
NICHOLS F A.....67-03 M14-65866
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NICHOLSON J L.....67-11 M12-80830
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NICHOLSON S.....67-12 M10-83167
NICKERSON J W.....67-08 M12-75040
NICKI J.....67-03 M14-65184
NICKLISCH W.....67-11 M17-80219
NICODEMI W.....67-02 M14-62064
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NICODEMI WALTER.....67-09 M13-78156
.....67-11 M19-80575
NICOLAE V.....67-04 M09-67154
NICOLAI ANNEMARIE.....67-03 M13-65902
NICOLAS VOLKMAR.....67-09 M01-77824
.....67-09 M14-77826
.....67-09 M17-77825
.....67-09 M18-77827
NICOUD J C.....67-03 M16-65263
NICOUD JEAN CLAUDE.....67-12 M16-82509
NICULESCU D.....67-07 M16-73998
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NICULESCU GRIGORE.....67-12 M10-83107
NICULESCU N.....67-07 M16-73998
NIEBEL B W.....67-07 M12-74128
NIEBUHR J.....67-01 M14-58535
NIEDERSCHUH E.....67-07 M20-73150
NIEDRIG H.....67-02 M13-61825
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NIEMIEC J.....67-02 M15-61530
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NIEMYSKI TADEUSZ.....67-09 M05-76713
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NIERMANN ALFRED.....67-07 M12-72558
NIES HANS.....67-10 M04-79392
NIESSEN A K.....67-09 M16-77672
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NIETH F.....67-07 M12-73231
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NIEUWENHUIZEN J M.....67-01 M13-57555
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NIGMETOVA R SH.....67-11 M15-81178
NIHASHI TAKAO.....67-02 M06-60945
NIHEI ISAO.....67-05 M18-68647
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NII KAZUYOSHI.....67-06 M14-71735
.....67-06 M14-71736
NII RIRO.....67-06 M16-72047
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NIIYAMA EISUKE.....67-05 M07-69710
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NIKANOROV M A.....67-04 M17-66487
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O REL KVON.....67-09 M03-76824
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OGREN J R.....67-12 M15-82848
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OGURA TSUGIO.....67-11 M17-81065
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OHANLON J.....67-04 M04-67416
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OLANDER F.....67-12 M15-82291
OLBRYCHTOWICZ I.....67-05 M04-69085
OLCESE GIORGIO L.....67-05 M15-69351
OLDANO G B.....67-09 M04-78009
OLDFIELD W.....67-04 M14-66940
OLDHAM W G.....67-06 M14-72173
OLEA JOSE T.....67-12 M03-83581
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OLESEN N C.....67-09 M15-77138
OLESHKEVICH T I.....67-06 M04-70196
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OLSON J.....67-07 M15-73506
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OLSSON L E.....67-04 M17-68036
OLSSON R G.....67-03 M14-65100
OLSZEWSKA A.....67-04 M19-67123
OLYUNIN G V.....67-02 M03-62052
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OMA KAZUHIKO.....67-01 M18-57613
OMAROV M M.....67-06 M16-71475
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OMORI GORO.....67-08 M17-75358
ONAEV I A.....67-11 M13-81452
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ONDERKA MIROSLAV.....67-11 M04-81609
ONILLON MARC.....67-04 M15-66353
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ONUSCHECK JOHN W.....67-04 M04-68108
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OPFERKUCH HEINZ.....67-01 M08-58723
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.....67-12 M17-83289
OPPENHEIMER EDGAR D.....67-10 M11-79195
OPPENHOFF HEINRICH.....67-07 M04-73237
OPPERMANN HEINRICH.....67-12 M03-82141
ORAKHOV YU P.....67-09 M09-76570
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ORAZGULYEV B.....67-03 M16-65634
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ORDENKO V B.....67-08 M09-75965
ORDENKO V S.....67-08 M09-74307
ORDOGH M.....67-06 M19-70401
ORDWAY FRED.....67-01 M16-58420
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ORIOKA TEIJIRO.....67-05 M08-68890
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OROSHNIK J.....67-06 M16-72177
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ORSAG J.....67-06 M19-72190
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ORSZAGH V.....67-06 M11-70205
ORTHIS KURT.....67-06 M06-70672
ORTHS KURT.....67-04 M06-66582
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ORTNER B.....67-04 M13-66283
ORTON B R.....67-01 M13-57947
ORTON J P.....67-03 M04-65529
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.....67-09 M04-77863
OSIPOV V V.....67-08 M18-75898
OSIPOVA E F.....67-03 M03-65779
OSIPOVA T P.....67-11 M03-81318
OSIPOVA YE F.....67-09 M14-77072
OSOKINA L I.....67-02 M14-61180
OSON R O.....67-01 M19-57225
OSOSKOV B A.....67-02 M02-59868
OSOZAWA K.....67-04 M18-66695
.....67-04 M18-67429
OSTANEVICH J.....67-08 M15-75226
OSTAPENKO N G.....67-08 M10-74376
.....67-08 M11-75408
.....67-12 M10-82249
.....67-12 M11-82029
OSTAPENKO P E.....67-10 M02-79845
OSTAPOV I T.....67-08 M02-74891
OSTASHEVSKAYA N S.....67-06 M03-71353
OSTBERG.....67-07 M13-74226
OSTBERG A.....67-01 M06-58358
OSTBERG G.....67-07 M17-72673
OSTBERG JAN ERIK.....67-05 M04-68598
OSTERGAARD P.....67-04 M15-68063
OSTERGAARD PAUL B.....67-09 M20-76616
OSTERHOLTZ C E.....67-03 M04-65357
OSTERMANN R.....67-06 M18-71593
OSTERTAG W.....67-07 M15-73506
OSTERTAG WERNER.....67-02 M13-59097
.....67-12 M13-82967
OSTLER F.....67-05 M06-69312
OSTOLOPOVSKY A N.....67-02 M07-60678
OSTRIK P N.....67-07 M09-72501
.....67-08 M02-74885
.....67-11 M09-80887
OSTROBORODOVA V V.....67-06 M16-70050
OSTROBROD M D.....67-05 M03-68967
OSTROUKHOV M YA.....67-02 M04-61735
.....67-04 M02-66203
.....67-04 M04-67604
.....67-10 M04-80078
.....67-10 M04-80079
OSTROUSHKO R I.....67-03 M03-65584
OSTROVERKHOVA V S.....67-08 M14-74866
OSTROVOI YU D.....67-01 M17-57132
OSTROVSKA V P.....67-07 M14-72671
OSTROVSKAYA S A.....67-01 M11-57388
.....67-02 M11-59791
.....67-04 M11-66436
.....67-06 M11-71842
.....67-07 M11-72695
.....67-09 M11-78114
.....67-11 M11-80636
.....67-11 M11-80874
OSTROVSKAYA T V.....67-05 M02-68965
OSTROVSKII G A.....67-11 M14-80966
OSTROVSKII YE G.....67-06 M04-70935
OSTROVSKIY G A.....67-04 M14-66364
.....67-12 M17-83537
OSTROW R F.....67-10 M12-79939
OSTROWSKI E J.....67-01 M04-58103
.....67-06 M04-72078
OSTROWSKI J W.....67-08 M15-75252
OSTWALD PHILLIP F.....67-12 M08-82953
OSULLIVAN W J.....67-02 M16-60764
.....67-05 M16-69809
.....67-10 M16-79361
.....67-11 M16-80186
OSVENSKII V B.....67-01 M17-57650
.....67-06 M17-70514
.....67-07 M17-72869
.....67-12 M17-82177
OSVENSKIY V B.....67-01 M17-57361
OSWALD J.....67-03 M17-65570
OSWALD R B JR.....67-03 M17-65744
OSWALD R C.....67-03 M04-65516
OSYPENKO V P.....67-11 M15-81047
OTA EIICHI.....67-08 M08-75591
OTA HEISHIRO.....67-08 M14-74413
OTA KUNIHIKO.....67-08 M17-75808
OTA MAMORU.....67-02 M11-59745
.....67-02 M17-59746
.....67-05 M13-69853
OTA T.....67-07 M04-72447
.....67-07 M07-72440
OTA TAKAYOSHI.....67-04 M14-67183
OTABE SEIICHI.....67-02 M04-60755
OTANEVICH J.....67-08 M15-75227
OTANI MIDORI.....67-12 M20-82922
OTANI T.....67-06 M04-72288
OTENYAZOV E.....67-10 M17-79023
OTIASHVILI D G.....67-11 M03-80437
OTNES KARE.....67-03 M13-65028
OTOGURO YASUO.....67-05 M17-69364
OTOTANI TOHEI.....67-08 M17-74426
.....67-09 M14-78245
.....67-11 M14-81058
.....67-11 M14-81059
OTPUSHCHENNIKOV N F.....67-01 M15-58198
OTSUKA K.....67-12 M14-82007
.....67-12 M14-82008
OTSUKA RIKURO.....67-05 M18-68767
OTSUKI M.....67-06 M04-72283
OTT W L.....67-06 M19-70861
.....67-06 M19-70862
OTT WELLAND L.....67-06 M19-70971
OTTA B.....67-04 M04-66951
OTTE H M.....67-06 M13-71089

OTTE H M.....67-06 M17-71426
OTTE HENRY M.....67-05 M14-69217
.....67-12 M13-82541
.....67-12 M13-82736
OTTO A.....67-08 M04-74468
OTTO HANS GEORGE.....67-05 M11-69164
OTTOW MANFRED.....67-09 M04-77709
OTYPKA K.....67-10 M17-79742
OUCHIDA HISASHI.....67-02 M17-60663
.....67-10 M17-79878
OUDAR J.....67-12 M14-83231
OUDAR JACQUES.....67-10 M14-79585
.....67-10 M14-79897
.....67-12 M13-82352
.....67-12 M13-82591
OUDIN J.....67-08 M07-75795
OUHATA KOUKICHI.....67-09 M11-77997
.....67-09 M11-77998
OURADA F.....67-06 M06-70801
.....67-08 M06-74796
OVCHARENKO A N.....67-09 M08-76444
OVCHINNIKOV A P.....67-06 M14-70512
.....67-10 M15-79443
OVCHINNIKOV A S.....67-04 M04-67228
OVCHINNIKOV I F.....67-07 M03-72781
OVCHINNIKOV P N.....67-05 M18-69826
.....67-12 M18-82260
OVCHINNIKOV V I.....67-10 M14-78351
OVCHINNIKOV YU F.....67-04 M11-66838
OVCHINNIKOV YU N.....67-02 M04-61736
.....67-11 M04-81217
OVCHINNIKOVA A S.....67-09 M04-76885
OVCHINNIKOVA V V.....67-05 M12-69835
.....67-10 M12-78534
.....67-10 M12-78535
.....67-12 M12-82268
OVECHKIN B I.....67-02 M17-59768
.....67-08 M17-76126
OVERDICK RICHARD.....67-12 M11-83292
OVERKOTT ENGELBERT.....67-10 M02-79900
OVINTSEVA S A.....67-02 M02-61604
OVRESET A.....67-02 M07-61000
OVSEICHUK E A.....67-08 M16-74869
OVSIENKO D E.....67-01 M13-57660
.....67-06 M13-70193
.....67-09 M13-77753
.....67-12 M13-82339
OVSIYENKO D YE.....67-02 M14-61927
OVSYANKIN V V.....67-11 M10-81293
OVSYANNIKOV B M.....67-02 M17-61977
.....67-03 M17-65607
.....67-08 M17-74532
.....67-08 M17-76021
.....67-10 M17-78834
OVSYANNIKOV M I.....67-02 M15-61659
OWCZARSKI W A.....67-09 M11-78145
.....67-12 M11-82823
OWEN C J.....67-09 M12-78055
OWEN E A.....67-08 M13-74390
.....67-08 M13-74391
OWEN L W.....67-05 M14-68634
OWEN M.....67-02 M06-60525
OWEN S J T.....67-10 M14-79024
OWEN W S.....67-04 M17-66069
.....67-07 M14-74173
OWENS C M.....67-06 M13-69928
OWENS EDWARD B.....67-02 M19-59503
OWENS I E.....67-06 M08-72030
OXLEE C H.....67-04 M17-66987
.....67-05 M01-68496
OXLEY P L B.....67-09 M08-77557
OYA SHIGEO.....67-05 M06-68887
OYA T.....67-06 M04-72284
.....67-06 M04-72382
OYAMA KAZUTOMO.....67-03 M17-65838
.....67-03 M17-65839
.....67-06 M17-74411
OYKS G N.....67-07 M04-73004
OZAKI H.....67-01 M16-57962
OZAKI SHUNRO.....67-10 M09-79980
OZAWA MASAYA.....67-04 M02-67554
OZBUN C T.....67-09 M17-76557
OZBUN CLYDE T.....67-06 M17-71929
OZELTON M W.....67-11 M15-81571
OZERNAYA I N.....67-07 M18-73651
OZERYANAYA I N.....67-03 M18-65442
.....67-04 M18-67286
OZIMIN YU S.....67-07 M15-74048
OZMACHKIN B P.....67-11 M04-81303
OZOL KALNIN G A.....67-11 M12-81286
OZOLIN L T.....67-04 M02-67933
.....67-10 M02-79843

P 1329-1330.....67-07 M15-73565
P 1335-1336.....67-07 M15-73568
PAAKKARI T.....67-08 M16-76134
PAAR O.....67-07 M04-73120
.....67-10 M04-79675
PACALOWSKI JANUSZ.....67-11 M03-81613
PACHE R.....67-11 M18-81236
PACKER CHARLES M.....67-06 M17-71075
PACQUE CL.....67-01 M13-58127
PACZEK JOACHIM.....67-10 M02-79862
PADERNO V N.....67-06 M15-71472
.....67-12 M15-82793
PADERNO Y B.....67-05 M15-68709
.....67-06 M15-71472
PADERNO YU B.....67-01 M15-58057
.....67-04 M15-67099
.....67-06 M15-71470
.....67-12 M15-82685
.....67-12 M15-82791
.....67-12 M15-82793
PADEZHNOVA E M.....67-12 M01-82421
PADEZHNOVA YE M.....67-12 M13-82121
PADFIELD R C.....67-07 M05-73092
.....67-08 M15-75523
.....67-09 M04-77718
.....67-11 M04-80110
.....67-11 M15-80906
.....67-11 M15-81556
PADO G S.....67-11 M15-81054
PAGANELLI M.....67-01 M13-57988
.....67-02 M09-62289
.....67-02 M19-59163
.....67-09 M09-78256
PAGE D.....67-10 M14-79602
PAGE D F.....67-05 M15-69805
PAGE D I.....67-07 M16-74057
PAGE F W.....67-06 M20-70954
PAGE G G.....67-09 M18-76633
PAGETTI J.....67-12 M13-82605
PAGNIA H.....67-05 M16-68339
.....67-06 M16-69959
.....67-06 M16-69960
PAHL D.....67-07 M08-72428
PAHLITZSCH G.....67-02 M08-60997
.....67-11 M08-80514
.....67-11 M08-80798
.....67-12 M08-82774
PAI D H.....67-09 M17-76449
PAI HUNG NAI.....67-08 M15-75079
PAIDASSI JEAN.....67-12 M18-81811
PAIK YOUNG HYUN.....67-06 M04-71198
PAIKINA R I.....67-02 M03-60085
.....67-02 M03-60090
PAISOV A I.....67-02 M09-60894
PAISOV I V.....67-04 M13-67967
.....67-05 M17-68386
.....67-06 M10-70071
.....67-07 M10-73005
.....67-08 M17-74342
.....67-08 M17-74970
.....67-08 M17-74978
.....67-10 M08-78817
.....67-10 M17-78964
.....67-12 M10-81876
PAISOVA I YA.....67-02 M18-60066
.....67-08 M18-75351
PAIZANSKII L D.....67-02 M04-61740
PAJACZKOWSKA A.....67-08 M15-75252
PAJAKOWA IRENA.....67-10 M03-79863
PAJOT B.....67-08 M16-74599
PAK E P.....67-10 M02-78417
.....67-12 M02-83415
PAKHOLKOV V S.....67-01 M02-57308
PAKHOMOV V V.....67-07 M08-74292
PAKHOMOV V YA.....67-04 M16-66500
.....67-09 M16-77783
PAKHOMOVA G N.....67-02 M03-61277
.....67-04 M18-67521
PAL L.....67-05 M15-69375
.....67-07 M15-73550
.....67-08 M15-75226
.....67-08 M15-75227
PAL S.....67-03 M15-65372
PALANIK L S.....67-04 M14-67382
PALASH V N.....67-12 M14-81847

PALATNIK L S.....67-01 M13-57349
.....67-01 M14-57647
.....67-02 M13-61676
.....67-02 M13-61926
.....67-02 M15-59931
.....67-02 M17-59556
.....67-02 M17-62080
.....67-04 M09-66879
.....67-04 M13-67928
.....67-04 M14-66499
.....67-05 M13-68206
.....67-05 M14-68837
.....67-05 M15-69388
.....67-05 M17-68578
.....67-07 M15-72586
.....67-08 M09-75422
.....67-09 M13-77772
.....67-09 M13-77778
.....67-09 M14-76980
.....67-10 M15-79839
.....67-11 M15-81053
.....67-11 M16-80173
.....67-12 M13-82493
PALELOVA L A.....67-10 M14-79138
PALENZONA A.....67-08 M13-75290
PALENZONA ANDREA.....67-05 M13-69128
.....67-12 M13-83254
PALEOLOG E N.....67-09 M13-77094
PALETHORPE L G W.....67-06 M10-71937
PALFALVI A.....67-02 M09-59611
.....67-09 M09-76932
PALFALVI A YU.....67-12 M09-82205
PALIK E D.....67-04 M16-66751
.....67-04 M16-66753
PALKIN B A.....67-09 M17-78159
PALKINA K K.....67-01 M13-58147
PALL F A.....67-02 M17-61138
PALLER EDMUND.....67-07 M15-74276
PALMARINO ERNESTO.....67-11 M12-80577
.....67-12 M12-82518
PALMBERG P W.....67-05 M13-69037
.....67-05 M14-69426
.....67-09 M16-77442
.....67-10 M14-79405
.....67-12 M13-82523
PALME R.....67-10 M01-79070
PALMER I G.....67-06 M17-70623
PALMER R H.....67-09 M12-77654
.....67-09 M12-77655
PALMER T J.....67-07 M07-72998
PALMERA MARIO.....67-06 M03-71018
PALMOVA N I.....67-05 M15-68841
PALMY C.....67-06 M16-71989
PALOVITS PALNE.....67-09 M03-76821
.....67-12 M03-81792
PALYSAEV M P.....67-02 M02-62044
.....67-08 M03-75087
PAMPILLO C.....67-11 M14-81259
PAMPUCH ROMAN.....67-05 M09-68393
PAMPUSHKO N A.....67-12 M02-83096
PAN V M.....67-06 M16-70319
PAN W Y.....67-08 M14-75163
PANAIOTI I I.....67-06 M17-70768
PANAKHOV T M.....67-01 M15-58062
.....67-06 M15-70327
.....67-09 M15-76561
PANANOTI I I.....67-05 M09-69057
PANASENKO E I.....67-06 M14-72115
PANASYUK A D.....67-06 M15-72041
PANASYUK L S.....67-04 M06-66417
PANASYUK P V.....67-05 M15-69394
.....67-11 M15-80654
PANASYUK V V.....67-09 M17-76443
PANCHENKO E V.....67-02 M10-60549
.....67-04 M12-67965
.....67-05 M10-68975
PANCHENKO I P.....67-07 M04-73780
.....67-09 M04-76543
PANCHENKO N P.....67-07 M08-74288
.....67-08 M17-76007
PANCHENKO O A.....67-10 M15-79649
PANCHESHNAYA V P.....67-10 M18-79342
PANCIATICI P L.....67-09 M19-78025
PANDYA N S.....67-02 M13-61591
PANEK MILOSLAV.....67-11 M06-80423
PANFILOV L M.....67-04 M10-67384
PANFILOV S A.....67-09 M14-77273
PANFILOV Y A.....67-02 M09-59608
PANFILOV YU A.....67-09 M09-76926
PANFILOV YU A.....67-12 M09-83556
PANFILOVA L M.....67-02 M17-61973
.....67-04 M14-67391
.....67-06 M17-70119
.....67-06 M17-71121
.....67-10 M17-78830
PANGAROV N A.....67-07 M14-72952
.....67-07 M15-72951
PANICH B I.....67-04 M17-67605
.....67-06 M04-70909
.....67-11 M04-80853
PANICHKINA V V.....67-02 M09-60173
.....67-06 M09-71459
.....67-09 M14-76906
.....67-12 M09-82209
.....67-12 M09-82780
.....67-12 M09-83559
PANIKAROV M A.....67-10 M11-78974
PANIKOV N N.....67-04 M19-66839
PANIN A V.....67-05 M17-69408
.....67-10 M17-78512
PANIN M F.....67-09 M04-77858
PANIN S P.....67-04 M10-67622
PANIN V E.....67-02 M13-60298
PANIN V YE.....67-02 M13-61162
.....67-02 M17-61940
.....67-04 M17-67644
.....67-05 M13-68846
PANISH M B.....67-02 M13-59453
.....67-03 M14-65428
.....67-07 M14-73460
.....67-12 M14-82290
PANKEY TITUS.....67-01 M15-57219
PANKOV G A.....67-04 M19-67087
.....67-09 M19-78067
PANKOV YU A.....67-07 M18-73016
PANKOVE J I.....67-01 M16-57973
.....67-04 M16-66761
.....67-06 M16-71146
PANKOWSKI FERN REGINA.....67-05 M15-68910
PANKRATOV V V.....67-09 M13-77288
PANKRATOVA L S.....67-05 M20-69233
PANNETIER GUY.....67-12 M13-82694
PANOV A S.....67-08 M14-74314
.....67-09 M14-77775
PANOV B N.....67-08 M12-76266
.....67-10 M12-79259
PANOV B V.....67-04 M17-67235
PANOV V A.....67-12 M06-83037
PANOV V S.....67-03 M15-65797
.....67-12 M17-82160
.....67-12 M18-83561
PANOV YU P.....67-12 M11-82625
PANOVA G KH.....67-08 M16-75235
PANOVA L A.....67-09 M09-76569
PANSERI C.....67-02 M09-62289
.....67-02 M14-62099
.....67-09 M09-78256
.....67-09 M18-78059
PANSERI CARLO.....67-02 M08-59131
PANSHIN I F.....67-10 M18-79327
PANTELEEV V N.....67-08 M09-74308
PANTELEEVA A P.....67-11 M03-80752
PANTELEIMONOV L A.....67-02 M13-59665
.....67-06 M13-70183
.....67-06 M13-70185
PANTELEYEV V A.....67-10 M14-79474
PANTKE HEINZ DIETER.....67-08 M04-74684
PANTKE HEINZ-DIETER.....67-07 M04-73267
PANYUSHKIN A V.....67-02 M07-59698
PANYUSHKIN N V.....67-02 M11-61065
PANYUSHKIN V T.....67-01 M02-57304
.....67-08 M03-75019
.....67-09 M03-77045
PAOLETTI A.....67-06 M13-71997
PAOLINI G.....67-02 M12-59996
.....67-02 M17-59706
.....67-03 M12-65040
PAPA T.....67-10 M16-79168
PAPADAKIS EMMANUEL P.....67-03 M13-65092
PAPADIMITRAKI CHLICHLIA H.....67-02 M16-61116
PAPAKIN KH M.....67-03 M05-65910
PAPAMANTELLOS DEMETRIOS.....67-07 M04-72893
PAPAMENTELLOS DEMETRIOS.....67-06 M04-71747
PAPAPIETRO MICHEL.....67-02 M14-60554
.....67-04 M14-67747
.....67-10 M14-79706
PAPARONI FRANCO.....67-02 M07-59828
.....67-04 M07-66635

PAPARONI FRANCO.....67-04 M12-66712
PAPCHEFF D D.....67-10 M08-79680

PAPIN T P.....67-08 M04-74326
PAPIROV I I.....67-03 M03-65240
.....67-03 M14-65255
.....67-03 M17-65458
.....67-03 M18-65258
.....67-09 M14-76951
.....67-11 M03-81157
PAPIROV M K.....67-08 M04-76269
.....67-10 M04-79262
PAPOYAN K V.....67-11 M15-80163
PAPP ELEMER.....67-10 M03-78317
PAPP M KH.....67-06 M03-70374
PAPSDORF PHIL F W.....67-10 M20-78580
PAPULI G.....67-09 M10-77200
PARABIN V V.....67-01 M04-57263
.....67-06 M13-70272
PARABINA G I.....67-11 M13-81415
PARAMONOV A M.....67-05 M11-69413
PARASYUK P F.....67-04 M04-66703
PARDEE RUSSELL E.....67-01 M05-57930
PARDO MARIE PAULE.....67-04 M14-66341
PARDUE W M.....67-09 M01-76342
.....67-09 M16-77309
.....67-11 M15-80461
PARDUE WILLIAM M.....67-10 M01-79375
PARE VICTOR K.....67-04 M17-66228
PARENKOV A E.....67-10 M04-80038
.....67-10 M04-80039
.....67-10 M04-80041
PARENKOV A YE.....67-10 M04-80040
PARENT SIMONE.....67-02 M13-59094
PARETSKII V M.....67-07 M03-72780
PARFENOV A I.....67-05 M04-68544
.....67-07 M04-72455
PARFENOV B G.....67-04 M18-66401
PARFENOV V V.....67-04 M15-66483
.....67-04 M15-66484
PARFENYUK V K.....67-01 M17-57331
.....67-07 M17-73053
PARGETER F W J.....67-06 M17-71542
PARGETER J K.....67-08 M13-75293
.....67-08 M14-76051
PARIA H.....67-10 M15-79153
PARIKH N M.....67-06 M20-70654
.....67-10 M14-79979
PARIS B.....67-03 M14-65429
PARIS JACQUES M.....67-12 M14-81817
PARISIEN JEAN.....67-09 M17-77395
PARITSKII L G.....67-05 M16-69380
PARK J H.....67-06 M19-70802
PARK Y S.....67-07 M14-72649
PARKER CHARLES M.....67-08 M12-75475
PARKER E R.....67-03 M17-65329
.....67-05 M14-68991
.....67-08 M17-76158
PARKER EARL R.....67-01 M17-58601
.....67-04 M17-66643
.....67-08 M17-75980
PARKER H A.....67-03 M04-65507
PARKER R.....67-01 M15-58781
.....67-06 M17-71639
PARKER SIDNEY G.....67-09 M12-76629
PARKER T D.....67-01 M10-57438
.....67-04 M03-66332
PARKER THERON D.....67-11 M18-81198
PARKHUTSIK P A.....67-06 M17-70175
PARKHYTSIK P A.....67-06 M17-70096
PARKIN J N.....67-06 M11-70026
PARKINS R N.....67-04 M18-66692
PARKS R D.....67-06 M16-70639
.....67-10 M16-78731
.....67-10 M16-79282
PARKS V J.....67-06 M17-71049
PARLANTI CONRAD A.....67-02 M06-61091
.....67-07 M06-72819
PARLEE N A D.....67-12 M14-82753
.....67-12 M14-82984
PARMA V.....67-07 M06-73264
PARMA VACLAC.....67-02 M04-59569
PARNHAM H.....67-01 M05-58645
PARPAROV I L.....67-11 M04-81315
PARR J GORDON.....67-07 M14-74172
.....67-10 M10-79770
PARRAVANO G.....67-02 M09-61822
PARREIRA H C.....67-08 M18-74788
PARRISH W R.....67-06 M15-72260

PARRY A A.....67-06 M15-71043
PARRY G W.....67-02 M17-59023
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PERZ J M.....67-10 M15-78397
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PESCHANSKII I P.....67-07 M06-74051
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PETARRA D P.....67-07 M17-73913
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PETOT ERVAS GEORGETTE.....67-12 M13-83104
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PETRENKO V I.....67-05 M19-68409
PETREQUIN P.....67-03 M17-65276
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PETRESCU V.....67-08 M15-74778

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PETRILLI FRANK.....67-03 M04-65522
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PETROFANOV V M.....67-04 M11-66478
PETROFF GEORGE.....67-08 M13-66894
PETROFSALOVSKAYA I N.....67-04 M17-67952
PETROGENKO M.....67-07 M04-72975
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PETROVSKII A A.....67-07 M07-73783
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PETRUSHIN I V.....67-04 M11-67811
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PETZUCH M.....67-08 M15-75646
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PICCININI C.....67-06 M05-71949
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PIEHL KARL HEINZ.....67-01 M04-57916
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PIERCE DONALD F.....67-10 M19-79185
PIERCE R D.....67-06 M01-70714
PIERITZ J.....67-03 M14-65184
PIERSMA BERNARD J.....67-06 M15-72167
PIERSON JOHN R.....67-11 M15-80826
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PIETSCH E H ERICH.....67-04 M04-67222
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PIFER JOE H.....67-08 M16-75928
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POPOVICI G.....67-04 M16-67107
POPOVICI M.....67-04 M16-67792
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POPPA HELMUT.....67-12 M14-83261
POPPER G F.....67-07 M20-73131
POPPMEIER W.....67-01 M04-57932
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POPS H.....67-04 M17-67023
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POREMBKA S W.....67-11 M11-80479
PORETSKAYA L V.....67-06 M13-71119
POROKHOV V S.....67-02 M17-59773
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PORSE L.....67-09 M20-77546
PORTE D.....67-12 M20-82835
PORTER BERNARD.....67-10 M14-79688

PORTER CHARLES H.....67-08 M06-75491
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PORTER D E.....67-07 M15-73905
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.....67-10 M12-78558
PORTER L F.....67-06 M11-70122
PORTNOFF A Y.....67-09 M14-75323
PORTNOI K I.....67-02 M10-61629
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PORTNOI R I.....67-09 M11-77244
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PORTNOV K I.....67-08 M13-75434
PORTNOY K I.....67-06 M13-71462
PORTO S P S.....67-09 M13-77179
PORUCHIKOV YU P.....67-02 M06-59180
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POSCHENRIEDER W P.....67-08 M19-74562
POSELOV K S.....67-04 M17-66834
POSHKASH I I.....67-02 M04-58852
POSPELOVA N G.....67-11 M14-81310
POST WOLFGANG.....67-08 M19-76288
POSTANOGOV V V.....67-04 M03-66963
POSTLETHWAITE JOHN.....67-08 M18-76189
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POSTNIKOV V S.....67-02 M17-60068
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POSTNIKOV V V.....67-02 M15-61659
POSTNIKOV YU YA.....67-12 M10-83387
POSYSAEVA L I.....67-02 M17-59954
POTACHIN N E.....67-10 M13-78710
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.....67-10 M15-79834
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POTAPOVA T A.....67-01 M19-58095
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POTARD C.....67-03 M03-65245
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POTEKHIN B A.....67-02 M17-59943
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POTEKHINA N D.....67-08 M14-74647
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POTEMKIN V K.....67-10 M17-80087
POTET P.....67-04 M09-67397
POTRUSAEV A P.....67-04 M04-66204
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POTTER CHARLES C.....67-02 M09-59468
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POTTER P E.....67-09 M14-76345
POTTER R F.....67-04 M15-66746
POTTHOFF H W.....67-10 M12-79397
POTTHOFF HANS WERNER.....67-10 M08-78790
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POTTS DANIEL.....67-09 M19-76999
POTUREMETS A A.....67-08 M13-74960
POTVIN R J A.....67-11 M18-80242
POTVIN ROGER J A.....67-05 M14-69132
POUCHARD MICHEL.....67-02 M14-60924
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.....67-11 M01-81565
POUGEOL A.....67-06 M08-71803
POUILLARD E.....67-01 M17-57606
POULIGNIER J.....67-01 M17-57609
POUND G M.....67-10 M14-79409
POVAR V I.....67-10 M17-79235
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POVEDSKAYA L G.....67-09 M03-76982
POVOD V K.....67-06 M17-70768
POVOLO F.....67-07 M13-73903
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POWELL T A JR.....67-06 M04-72079
POWELL W J A.....67-07 M08-72421
POWERS HURSHALL G.....67-09 M11-77948
POWERS R E.....67-09 M04-77009
.....67-09 M04-77098
POWERS ROBERT E.....67-09 M04-77147
POWERS W H.....67-03 M05-65356
POYARKOV A M.....67-05 M04-68321
POYET P.....67-12 M13-83339
POZDEEVA A A.....67-05 M18-69826
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POZDNAYAK N Z.....67-06 M09-72328
POZDNYAK N Z.....67-09 M14-76763
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POZHIDAEV YU V.....67-06 M04-70741
POZHYAK L A.....67-04 M17-66368
POZIN YU M.....67-02 M09-62132
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.....67-12 M09-82212
POZNYAK L A.....67-04 M17-66404
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POZNYAKOV A P.....67-04 M11-67807
.....67-06 M11-70307
POZSGAY VILMOS.....67-09 M03-76881
PRABHALA K S.....67-04 M04-66026
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PRACKA I.....67-01 M14-58405
PRADELLI G.....67-10 M04-78482
PRADOS JOHN W.....67-10 M16-78728
PRAKASH S.....67-07 M16-74016
PRANGE R E.....67-11 M16-81393
PRASAD A S.....67-12 M01-82890
PRASAD P M.....67-10 M03-79503
PRASKE W.....67-09 M04-77224
PRASOVA T I.....67-02 M15-61936
PRATER J D.....67-01 M03-57936
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PRATT H R.....67-08 M04-74467
PRATT J E.....67-06 M14-70419
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PRATUSEVICH R M.....67-04 M17-66631
PRAVDIC V.....67-10 M15-79571
PRAVDIN A V.....67-02 M17-58878
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.....67-09 M07-77633
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PRAVILOV G A.....67-04 M06-66424
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PRAVOVEROV N L.....67-08 M15-74998
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PRAZAK M.....67-07 M18-72765

PRAZAK M.....67-08 M12-75681
PRCHA F.....67-07 M07-73037
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PREDEL B.....67-04 M15-66542
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PREDEL BRUNO.....67-12 M14-82051
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.....67-10 M17-79449
PREECE R E.....67-03 M04-65526
PREIGERZON SH I.....67-02 M09-59678
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PREISENDANZ HANS.....67-02 M14-59089
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PREISINGER A.....67-09 M13-76451
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PREKEL H P.....67-07 M13-73931
PREKUL A F.....67-12 M15-82328
PREMSELA H F.....67-04 M13-66155
PRENOSIL B.....67-07 M17-73186
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PRESNOV V A.....67-11 M15-80634
PRESNYAKOV A A.....67-01 M14-57358
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PRESTON J K.....67-02 M06-60234
PRESTON RICHARD S.....67-10 M16-79281
PRETOR KARL GEORG.....67-09 M06-77845
PRETTRE MARCEL.....67-11 M13-81559
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PRICE V T JR.....67-02 M09-59035
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.....67-12 M17-83433
PRIDANTSEV S A.....67-06 M10-70366
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PRIDE RICHARD A.....67-07 M09-73340
PRIDNATSEV M V.....67-07 M17-74192
PRIESTER P.....67-01 M17-57165
PRIESTLEY M G.....67-06 M16-69918
PRIESTNER R.....67-01 M17-57406
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PRILL ARNOLD L.....67-07 M13-73279
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PRIMAK W.....67-02 M17-58989
PRIMUS F.....67-06 M11-71940
PRINCE A.....67-06 M14-70795
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PRISHCHEPA M P.....67-06 M17-70176
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PRITCHARD W C.....67-07 M07-73787
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PRITOMANOVA M I.....67-04 M14-66901
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PRIVOZNIK L J.....67-11 M17-80261
PRNKA T.....67-04 M15-66020
PRNKA TASILO.....67-06 M16-71027
PROBERT S D.....67-10 M10-78332
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PROBULSKI STANISLAW.....67-03 M18-65476
PROCHKO R J.....67-05 M16-69382
PROCHUKHAN V D.....67-06 M20-71819
PROCK J JR9.....67-06 M01-70721
PROCK JOSEPH JR.....67-06 M15-71998
PROCTOR W.....67-09 M11-77619
PRODAN R I.....67-09 M17-78289
PRODI F.....67-09 M15-77790
PROFATILOVA N I.....67-09 M07-77634
PROGASHIN YU A.....67-11 M07-80922
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PROGER M.....67-09 M08-78182
PROGER MANFRED.....67-09 M13-77795
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PROGRUSHCHENKO A V.....67-08 M15-74935
PROGULSKI J.....67-08 M16-75827
PROHOFSKY E W.....67-10 M05-79817
PROIGOV A A.....67-05 M10-69646
PROKHODTSEV M M.....67-02 M04-60795
PROKHORENKO K K.....67-08 M17-75403
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PROKHORENKO V YA.....67-02 M06-61234
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PROKHOROVA I YA.....67-08 M14-75598
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PROKOCHKIN D A.....67-06 M14-70164
PROKOFEV D I.....67-07 M05-72618
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PROKOFEVA L V.....67-07 M18-72872
PROKOFEVA M V.....67-05 M17-68577
PROKOPENKO G I.....67-02 M09-60177
PROKOPENKO M I.....67-07 M05-72611
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PROKOSHKIN D A.....67-09 M13-76935
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PROKSCH E.....67-01 M12-58383
PRONIN I G.....67-06 M03-71344
PRONKIN V E.....67-01 M04-58156
PRONSKII E S.....67-07 M04-74070
PROSEN RICHARD J.....67-07 M15-73579
PROSHAGIN YU A.....67-08 M07-75488
PROSKE MARTIN.....67-10 M07-78697
PROSKURIN E V.....67-09 M12-76841
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PROSKURIN V B.....67-10 M15-79253
PROSKURKIN E V.....67-05 M12-68372
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PROSVIROV N I.....67-05 M01-69244
PROTASOV V S.....67-05 M13-68593
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PROTASOVA I V.....67-06 M11-71653
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PROTIVA KAREL.....67-09 M04-76813
PROTOPOPESCU A.....67-02 M20-58997
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PROTOPOPOVA T I.....67-02 M08-60676
PROTZL M.....67-10 M06-79093
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PROUDFOOT E A.....67-08 M19-75522
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PRUMMER R.....67-05 M17-68527
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PRUTTON M.....67-06 M15-70581
PRVCHEVA KHR.....67-06 M19-70343
PRYADKIN L L.....67-10 M04-79332
PRYAKHINA L I.....67-02 M13-62183
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PRYDE J A.....67-06 M15-71043
PRYOR M J.....67-05 M18-69703
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PRYTHERCH J C.....67-02 M14-61845
PRZEDROMIRSKAYA E M.....67-05 M09-68703
PRZHIYALGOVSKII S M.....67-12 M02-82172
PRZHUYALVOSKII S M.....67-07 M02-72864
PRZYBYLOWICZ KAROL.....67-06 M14-71105
PSARAS G G.....67-02 M11-60015
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PSAROUTHAKIS J.....67-10 M15-79568
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PSHENBAEV R T.....67-12 M02-83090
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PSHILUSSKI YA B.....67-11 M12-81285
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PTAK L.....67-06 M04-71118
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PTASHNIKOVA M O.....67-02 M14-61180
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PTUSHINSKII YU G.....67-05 M16-69036
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PTUSHINSKIY YU G.....67-10 M15-79649
PUCH JOZSEF.....67-12 M04-81787
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PUECHL K H.....67-09 M09-76339
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PUFAL ZBIGNIEW.....67-01 M08-58177
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PUHLER F.....67-02 M08-59619
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PUKHOVSKII E P.....67-05 M17-68447
PUKYANOV V P.....67-02 M07-59821
PULHAM R J.....67-08 M14-75555
PULKONIK K H.....67-06 M06-71676
PULLARO JOSEPH.....67-10 M06-78621
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PULLIAM G R.....67-07 M14-73523
PULTSIN N M.....67-06 M17-72122
PULTSYN N M.....67-10 M14-79141
PUNCH G.....67-11 M04-80534
PUNGARTNIK S.....67-02 M03-58872
PUNISHKO A A.....67-07 M03-73409
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PUPKE GERHARD.....67-10 M03-78316
PUPYNIN V P.....67-02 M04-58891
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PYCHA BOHUMIL.....67-09 M04-76715
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PYRYALOV L A.....67-04 M09-66253
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PYSZ GOTTFRIED.....67-04 M17-67412
PYTTE E.....67-03 M16-65720

QUADE GUNTER.....67-10 M02-79900
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QURESHI A H.....67-03 M08-65991

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RAZIKOV M I.....67-07 M17-73427
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RAZNIEWSKA M.....67-01 M09-57997
RAZUMNEY G A.....67-07 M14-72607
RAZUMOV K A.....67-05 M02-69309
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RAZYGRAEV V P.....67-01 M18-58705
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RDUZKI E M.....67-08 M04-76201
REA T W.....67-06 M17-70800

READ D A.....67-01 M15-58669
READ HAROLD J.....67-03 M15-65655
READ THOMAS A.....67-07 M14-73682
READEY D W.....67-04 M15-67327
READY T J.....67-06 M01-70677
READY THOMAS J JR.....67-06 M11-70133
REAGAN P E.....67-06 M16-71054
REALE C.....67-05 M15-69094
REALE G.....67-02 M17-59172
REASON R E.....67-08 M19-75134
REBEKO A F.....67-07 M04-74132
REBHOLZ M J.....67-04 M17-67890
REBRIK A A.....67-11 M04-81648
REBROV V I.....67-08 M07-75214
REBSCH HEINZ.....67-04 M05-68003
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RECHTIEN J.....67-03 M15-65640
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RECKNAGEL WOLFGANG.....67-07 M04-73030
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REDIKER R H.....67-09 M16-78062
REDING J T.....67-03 M18-65473
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REDR MIROSLAV.....67-01 M04-58168
REED D J.....67-09 M19-76746
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REED W A.....67-03 M15-65143
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REEDY H E.....67-06 M16-72179
REEKSTIN J P.....67-07 M15-73598
REEMSNYDER HAROLD S.....67-12 M17-82145
REESE M.....67-11 M14-80538
REESE R A.....67-05 M16-69788
REESMAN R W.....67-06 M06-70673
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REEVE L.....67-04 M02-67019
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REEVES R B.....67-07 M09-73349
REGAN R D.....67-05 M06-69886
REGAN R E.....67-08 M18-75520
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REGIDOR J J.....67-12 M17-83201
REGIFE J M.....67-07 M03-74098
REGNIER P.....67-03 M17-65269
REH L.....67-04 M02-67225
REHDER J E.....67-03 M04-65414
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REHIM SABET A E.....67-08 M18-76255

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REICH ROBERT.....67-02 M16-58925
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REINDERS F.....67-10 M04-78787
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REISSE R.....67-12 M14-83517
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RELANDER KRISTER.....67-07 M17-72479
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REMBEZA S I.....67-05 M16-69383
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REMEZ N V.....67-02 M10-60845
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REMMERS KARL.....67-07 M04-73109
REMONDINO M.....67-07 M19-73208
REMONDINO M S.....67-09 M18-78029
REMPEL G S.....67-11 M04-81018
RENARD F.....67-04 M17-67212
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RENOUARD M.....67-06 M10-71909
RENTON C A.....67-12 M15-83011
RENTSCH M.....67-04 M19-66908
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RENTZ W A.....67-03 M18-65619

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RERNAT DR.....67-09 M12-77538
RESCH WERNER.....67-09 M04-77499
RESCHKE S.....67-10 M01-79074
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RESNIK I G.....67-07 M17-73002
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RESSLER GUNTER.....67-08 M03-75691
RESTALL J E.....67-12 M12-82078
RESTELLI RONALD E.....67-02 M20-60243
RESTOVTSEV S T.....67-08 M04-74884
RETH ERICH.....67-08 M07-75308
RETI PAL.....67-06 M17-71511
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RETUS V S.....67-04 M04-66853
REUTER A.....67-10 M12-79886
REUTER HORST.....67-08 M01-75676
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RIEF E.....67-08 M15-75648
RIEGELMAYER PETER.....67-07 M11-73716
RIEGER HORST.....67-02 M18-60123
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RIENHOFF H Y.....67-01 M12-58766
RIES G D.....67-01 M11-58777
RIEWALD P G.....67-07 M14-72830
RIFAI MUKHAMED ABDEL KHAMID.....67-08 M09-75456
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RIHA KAREL.....67-10 M04-79851
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RONIS MICHEL.....67-12 M13-82512
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RUDNIKOVA R A.....67-02 M06-61019
RUDNITSKII L S.....67-02 M06-61186
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RUDNITSKII N M.....67-10 M17-78957
RUDNITSKII N N.....67-10 M17-78933
RUDOI L S.....67-05 M04-68322
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RUDOI V S.....67-11 M07-80861
RUDOL FRANCISZEK.....67-11 M04-81624
RUDOLPH A F.....67-06 M15-70997
RUDOY V M.....67-04 M12-67288
RUDY E.....67-08 M15-74935
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RUDY ERWIN.....67-09 M13-76400
RUDY JOHN F.....67-10 M08-79529
RUDYAK I N.....67-06 M15-70566
RUDYUK S I.....67-01 M17-57191
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RUDZKI E M.....67-03 M04-65513
RUEDL E.....67-04 M17-66046
RUEGG WERNER.....67-12 M06-82940
RUEGSEGGER H.....67-05 M11-68939
RUFF A W JR.....67-01 M13-57122
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.....67-07 M13-73071
RUGE J.....67-04 M11-68026
.....67-09 M14-77976
.....67-12 M11-83205
RUGE JURGEN.....67-02 M11-61884
.....67-02 M18-59037
.....67-09 M17-77339
RUH EDWIN.....67-10 M15-79431
RUHEMANN S.....67-06 M10-71941
.....67-06 M10-71944
RUHL KARL.....67-01 M17-58795
RUHL ROBERT C.....67-08 M10-75782
RUHLAND BERNHARD.....67-12 M20-83298
.....67-12 M20-83299
RUHLANDT G K.....67-10 M06-79750
RUHLE M.....67-01 M13-57580
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.....67-09 M16-76597
RUJII TAKEHIKO.....67-05 M04-69478
RUKAVISHNIKOV S A.....67-02 M10-62156
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RUKHLYADEV YU V.....67-05 M16-69386
RULEVA A F.....67-12 M11-81916
RULINA Z M.....67-05 M17-68367
RULLA N V.....67-12 M06-81887
RUMANTSEV YU V.....67-02 M14-61716
RUMBAKH V E.....67-02 M14-59876
RUMBERG D.....67-09 M04-77218
.....67-09 M04-77219
RUMMERY T E.....67-04 M13-68150
RUMP R B.....67-05 M15-69805
RUMSEY J C V.....67-06 M17-70542
RUMYANTSEV YU M.....67-09 M14-76851
RUMYANTSEV YU V.....67-08 M03-74893
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.....67-10 M04-79830
.....67-12 M03-83318
RUNDLE P C.....67-03 M16-65752
RUNDLE R E.....67-07 M16-73662
RUNDMAN K B.....67-09 M13-77594
RUNGE DONALD C.....67-09 M08-77802
RUNGIS J.....67-01 M14-57943
RUNNALLS O J C.....67-09 M14-76322
RUNOLINNA URMAS.....67-04 M09-67746
RUNOV.....67-02 M04-62102
RUNOV A D.....67-05 M15-69231
RUNOV A E.....67-06 M11-71854
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RUOFF A L.....67-06 M17-70683
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RUP R.....67-05 M15-69100
RUP RAJ.....67-01 M15-58736
RUPP G.....67-01 M16-57959
RUPPEL W.....67-10 M16-79366
RUPPERSBERG H.....67-09 M13-78175
RUPPERSBERG HENNER.....67-12 M16-83005
RUPPERT J A.....67-04 M03-66299
RUPPIN D.....67-01 M08-58283
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RUPPRECHT H.....67-07 M16-72922
RUSAKOV A A.....67-08 M13-75462
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RUSCHAK J D.....67-04 M04-67029
RUSEV R.....67-09 M04-76894
RUSEV RUSI DOCHEV.....67-04 M17-67124
RUSHCHUK V I.....67-02 M04-59862
RUSIN B A.....67-08 M15-74636
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RUSKE W.....67-02 M15-61510
RUSKOL YU S.....67-01 M18-57602
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RUSOV G I.....67-09 M15-77787
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RUSOVA S G.....67-09 M15-77787
RUSS JOHN C.....67-02 M10-59461
RUSSELL A S.....67-08 M11-74850
RUSSELL B.....67-09 M17-77464
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RUSSELL G J.....67-06 M13-72175
RUSSELL HAROLD.....67-11 M12-80362
RUSSELL JAMES B.....67-10 M06-80092
RUSSELL JOHN L JR.....67-07 M19-72996
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RUSSELL R B.....67-09 M07-77465
RUSSELL R J.....67-12 M15-82959
RUSSIAN A V.....67-04 M17-66215
RUSSO E DI.....67-02 M18-62100
RUSTAY A L.....67-04 M17-66689
RUTES V S.....67-02 M07-61872
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.....67-08 M04-75594
RUTH JEAN CLAUDE.....67-10 M13-79895
RUTHERFORD K G.....67-03 M12-65809
RUTKOWSKI W.....67-04 M07-67246
.....67-04 M12-66658
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RUTKOWSKI WLADYSLAW.....67-05 M09-68394
RUTMAN D S.....67-08 M05-75595
RUTMAN M M.....67-04 M14-67935
RUTTER J W.....67-02 M14-60603
RUTTMANN W.....67-11 M17-80254
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RUTTMANN WILHELM.....67-09 M17-77847
RUVINSKII S M.....67-02 M09-62203
RUZA VILIAM.....67-01 M11-58160
RUZANOV F I.....67-05 M17-69441
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RUZHINSKII M B.....67-05 M11-68329
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RUZHITSKII B M.....67-02 M17-59799
RUZICKA V.....67-10 M10-79661
RUZIN B I.....67-10 M10-78437
RYABCHENKO E V.....67-08 M12-75026
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.....67-11 M12-81287
RYABCHIKOV I V.....67-06 M04-70730
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RYABCHIKOV L N.....67-09 M18-77299
RYABININ YU N.....67-01 M17-57700
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RYABINKIN V P.....67-04 M11-67804
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RYABKOV V M.....67-07 M10-73793
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RYABOVA R M.....67-01 M17-58130
RYABTSEV L YU.....67-02 M04-61863
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RYABYSHEV A M.....67-08 M17-74986
RYADINSKAYA I M.....67-04 M17-67646
RYAGUNOV V A.....67-12 M07-81713
RYAKHOVSKAYA A P.....67-02 M11-60011
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.....67-10 M10-79612
RYAN CHARLES E.....67-01 M14-57948
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RYAN JOSEPH R.....67-03 M19-65981
RYAN N E.....67-04 M14-66158
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RYAZANOV N V.....67-09 M17-78159
RYAZANOVA L M.....67-09 M09-76838
RYAZANSKAYA L S.....67-08 M17-74977
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RYAZANSKIY V P.....67-06 M17-70060
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RYBA EARLE.....67-07 M13-73139
.....67-12 M15-82360
RYBAK M.....67-06 M17-70211
RYBAKOV A A.....67-04 M11-66435
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RYBAKOV YU V.....67-02 M11-62165
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.....67-11 M11-80651
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RYBALKO F P.....67-09 M17-76560
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RYBAR VACLAV.....67-09 M04-76816
RYBKIN V P.....67-01 M11-57677
RYBOCHKIN G F.....67-12 M11-83418
RYBOCHKIN R F.....67-10 M11-78420
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RYCZEK M.....67-02 M03-59591
RYCZEK MICHAL.....67-02 M04-59560
RYDER P L.....67-02 M14-60631
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RYDINGER M.....67-04 M06-68017
RYDINGER MATS.....67-04 M04-66281
RYDNIK V I.....67-12 M19-82303
RYE P.....67-06 M10-70357
RYKALIN N N.....67-02 M15-59797
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RYMASHEVSKII G A.....67-08 M06-76038
RYMOV V A.....67-04 M07-67613
RYMYANTSEV S V.....67-05 M03-69530
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RYS FRED W.....67-09 M04-77147
RYS J.....67-09 M13-76802
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.....67-12 M10-83462
RYS P.....67-12 M14-83440
RYSAVA M.....67-04 M17-67850
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RYSEVA YU I.....67-06 M13-71355
RYSHCHAU I A.....67-01 M17-57658
RYSKA ZDENEK.....67-02 M06-58991
RYSKIN S E.....67-09 M11-76843
RYTIKOV A M.....67-02 M07-61620
RYTVIN E I.....67-09 M17-77417
RYUM NILS.....67-06 M17-71659
RYVKIN S M.....67-05 M16-68400
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RYVKINA D G.....67-04 M17-67924
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RYZHIKOV A A.....67-02 M06-61007
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RYZHKOV A A.....67-04 M06-67504
RYZHKOV M A.....67-04 M08-66348
RYZHKOV N M.....67-04 M08-66348
RYZHKOV YU T.....67-05 M16-69004
RYZHKOVA G A.....67-09 M17-76983
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RZAYEV K I.....67-10 M17-79247
RZEPSKI.....67-01 M13-58023
RZEPSKI CLAUDE.....67-03 M14-65547
RZEWUSKI H.....67-07 M16-73883
RZHANOV A V.....67-05 M16-69389
RZHEPKOVSKII V V.....67-04 M04-67094
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RZYMAN K.....67-02 M03-58884
RZYMAN KAROL.....67-11 M03-81621

SAADA G.....67-05 M13-69460
SAAKIAYAN L S.....67-08 M18-75351
SAAKIYAN L S.....67-02 M18-60066
SAAR M M.....67-06 M03-70374
SABA A A E.....67-02 M02-60204
SABATIER J P.....67-11 M14-80147
SABEL AARON H.....67-10 M17-79175
SABELA WLADYSLAW.....67-11 M04-81627
SABELEV G V.....67-04 M07-66213
SABELNIKOV A G.....67-12 M07-81711
SABIEV M P.....67-10 M17-78927
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SABININ YU A.....67-02 M02-59537
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SABITOVA N S.....67-05 M14-69653
SABLIN P M.....67-06 M03-71360
SABO L.....67-09 M09-76932
SABO S.....67-02 M09-59611
SABOL G P.....67-12 M13-82553
SABURI TOSHIO.....67-07 M13-73146
SABUROV V P.....67-08 M06-75460
SACERDOTE R.....67-08 M04-75547
SACHKOV V V.....67-12 M17-83525
.....67-12 M18-83542
SACHS A.....67-11 M16-81393
SACHS BRUNO.....67-05 M06-69524
SACHS K.....67-02 M18-62011
.....67-02 M18-62012
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.....67-04 M18-66989
SACHS LESTER M.....67-08 M16-76138
SACHTLER W M H.....67-02 M15-61574
SACK H S.....67-03 M17-65881
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SACKMAN J F.....67-09 M18-76334
SACKO M.....67-02 M11-61063
SADAGOPAN V.....67-07 M15-73182
SADAOKA YOSHIAKI.....67-05 M17-68523
SADCHIKOV V M.....67-06 M17-70913
SADEK HUSSEIN.....67-10 M12-79052
SADOC PIERRE.....67-09 M06-77842
SADOVSKII V D.....67-02 M14-59935
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SADOVSKII V D.....67-05 M13-68374
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.....67-08 M14-74640
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.....67-10 M17-78968
.....67-12 M14-82336
SADOVSKIY V D.....67-02 M14-60285
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.....67-07 M14-72590
SADOWSKI E P.....67-11 M01-81534
.....67-12 M17-82768
SADREEV B A.....67-02 M14-62006
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.....67-08 M14-76089
SADYKOV ZH.....67-02 M02-61546
SAEGER K E.....67-10 M15-79016
SAEKI YUZO.....67-01 M03-58544
SAENKO V E.....67-02 M11-60014
SAERMARK K.....67-08 M16-75831
SAFARALIEV G I.....67-12 M16-82014
SAFAROV R SH.....67-04 M06-67943
SAFAROV YU S.....67-07 M07-73949
SAFFARIK GYULA.....67-12 M04-81788
SAFFONOV A F.....67-10 M02-79032
SAFINA R A.....67-07 M12-73653
SAFONNIKOV A N.....67-04 M11-66103
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.....67-10 M17-78520
.....67-11 M11-80545
SAFONOV A A.....67-07 M12-73658
SAFONOV A F.....67-08 M06-76273
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SAFONOV B P.....67-02 M04-62148
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SAFRANEK W H.....67-10 M12-79990
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SAFRANEK WILLIAM H.....67-08 M12-74494
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.....67-10 M12-79438
SAFRATA R S.....67-03 M15-65887
SAFRONOV I I.....67-01 M11-57687
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SAFYAN M M.....67-01 M07-58171
SAGA TSUNEO.....67-01 M17-57617
SAGAIDAK I I.....67-07 M04-74130
SAGALEVICH V M.....67-01 M11-58207
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SAGALEVICH V N.....67-11 M11-80881
SAGALOVA T B.....67-05 M14-69659
SAGALOVICH V V.....67-02 M13-59930
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SAGAN V YA.....67-02 M11-62169
.....67-04 M11-67173
SAGAR A.....67-03 M13-65135
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.....67-12 M14-82362
SAGAR AMRIT.....67-06 M13-70248
SAGARA HIDEO.....67-04 M17-66561
SAGARADZE V S.....67-02 M17-60850
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SAGAWA TAKASI.....67-04 M16-67473
SAGEL K.....67-02 M16-58980
SAGER R K.....67-08 M11-74849
SAGIROV KH N.....67-02 M11-59515
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SAHAGIAN CHARLES S.....67-02 M14-59488
SAIA A.....67-10 M06-79295
SAIA ANTHONY.....67-05 M06-68684
SAIBEL E.....67-08 M17-75543
SAIDOV M S.....67-05 M13-69264
SAIFER L M.....67-11 M13-80733
SAILBEKOV S E.....67-02 M14-61634
SAILER SIEGFRIED.....67-02 M13-60876
SAIMOTO S.....67-06 M15-71536
SAINFORT G.....67-03 M13-65557
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SAINT JAMES D.....67-01 M16-58630
SAINT LEGER A.....67-07 M04-72903
SAITA KAZUHITO.....67-02 M11-60169
SAITA YOSHIYUKI.....67-09 M14-78225
SAITO HARUO.....67-10 M16-79154
SAITO HIDEO.....67-02 M15-59738
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.....67-08 M15-74407
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.....67-09 M12-77694
SAITO MITSUHIRO.....67-05 M17-69292
SAITO REIKO.....67-05 M06-68865
SAITO SHIGERU.....67-08 M17-75133
SAITO T.....67-06 M04-72210
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SAJDOK J.....67-01 M03-58154
SAJI SIGEOKI.....67-05 M17-69859
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SAK KHAN GYU.....67-09 M03-76824
SAKABE KIYOZO.....67-02 M18-60720
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SAKAE YUKIO.....67-02 M18-59143
SAKAGAMI ROKURO.....67-02 M14-61851
SAKAI EIJI.....67-11 M14-80194
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SAKAIRI MITSUO.....67-11 M16-80197
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SAKAMOTO AKIRA.....67-09 M17-77260
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SAKAMOTO EIICHI.....67-02 M04-60035
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SAKAMOTO KOITI.....67-11 M11-81184
SAKAMOTO N.....67-01 M16-58636
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SAKAMOTO YOSHIYASU.....67-05 M19-69481
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SAKANOUE MASANOBU.....67-07 M03-74014
SAKAO HIROSHI.....67-08 M04-75769
SAKASHITA TSUGUYA.....67-10 M08-78850
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SAKATA MASARU.....67-09 M17-77573
SAKATA T.....67-08 M13-75251
SAKATA TAMIO.....67-04 M14-67579
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SAKATSUME SHINICHI.....67-08 M15-74435
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SAKHONCHKI L A.....67-04 M10-67038

SAKHONKO I M.....67-06 M17-70095
SAKIYAMA KAZUTAKA.....67-02 M18-59736
SAKLINSKII V V.....67-08 M09-75451
SAKLINSKIY V V.....67-08 M09-74318
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SAKORA FRANTISEK.....67-09 M04-76892
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SAKUI S.....67-11 M17-80255
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.....67-06 M17-70792
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SALAK ANDREJ.....67-06 M04-70920
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SANECKI J E.....67-09 M13-77475
SANG H.....67-12 M12-82217
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SANSON MICHEL.....67-08 M08-75764
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SANYAL B.....67-04 M18-66287
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SARYCHEV V F.....67-01 M04-57252
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SAUBENOVA I G.....67-06 M03-70906
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SEDOKOV L M.....67-04 M17-67611
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SEEGER A.....67-02 M15-61821
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SERRES A.....67-06 M19-71706
SERRES M.....67-05 M10-69346
SERVETMIK V M.....67-02 M04-59510
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SEVERS M.....67-12 M10-82600
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SEVRYUGINA M P.....67-08 M03-74477
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SEWELL L S JR.....67-08 M01-74814
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SHAFFER P T B.....67-03 M14-65341
SHAFIGULINA G A.....67-04 M15-67913
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SHAIN IRVING.....67-08 M14-74677
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SHKYAR F R.....67-11 M04-81458
SHLAFIRNER A M.....67-04 M18-67284
SHLENSKII V A.....67-02 M17-59798
SHLEPAKOV V N.....67-04 M11-66577
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SHLINKERT V.....67-04 M04-66210
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SHLYAKOVA O B.....67-01 M17-57361
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SHLYKOV P T.....67-08 M09-74917
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.....67-11 M04-81445
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SHNAIDER B I.....67-05 M11-69405
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SHNEYDER B I.....67-09 M11-78131
SHOBER F R.....67-11 M16-80472
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SHOEMAKER A K.....67-06 M17-71636
SHOEMAKER A KENT.....67-12 M17-81[illegible]3
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SHOLOKHOV V F.....67-10 M04-80082
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SHOPOV NIKOLA.....67-02 M19-59506
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SHORES DAVID A.....67-03 M15-65655
SHORNYAKOV L M.....67-04 M17-66517
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SHORSHER I N.....67-10 M02-80073
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SHORSHOV M KH.....67-02 M14-61970
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SHORT D W.....67-06 M15-71965
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SHOSHTAGORE R N.....67-08 M16-75242
SHOSTAK V A.....67-02 M04-59870
SHOTLTS A K.....67-08 M13-75958
SHOVENSIN A V.....67-04 M14-66260
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SHPARBER I S.....67-05 M18-69828
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SHPETNAYA A A.....67-02 M14-61981
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SHPILRAYN E E.....67-09 M15-76766
SHPINDLER S S.....67-02 M14-61016
SHPINEL V S.....67-05 M16-69028
SHPITSBERG A L.....67-03 M13-65965
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SHPITSBERG V M.....67-08 M04-75868
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SHPORTKO V P.....67-12 M10-82190
SHRADER E A.....67-08 M02-75168
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SHRAERMAN M R.....67-03 M17-65046
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SHREIBER G K.....67-02 M18-60066
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SHREIDER A V.....67-12 M18-82262
SHREYDER A V.....67-05 M18-69828
SHRIER A.....67-04 M17-66925
SHRIVER WILLIAM.....67-04 M12-66194
SHROFF A M.....67-08 M12-76214
SHRON R Z.....67-08 M11-74369
.....67-12 M11-82242
SHTALMAN M V.....67-07 M17-74047
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SHTEIN S G.....67-08 M17-74981
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SHTERN V I.....67-07 M03-73416
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SHUKUYA IWAO.....67-02 M04-60758
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SHUSTOROVICH V M.....67-09 M04-77044
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SHVETSOV V YA.....67-11 M02-81505
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SHYU WEIMEI.....67-02 M16-61568
SIADAK J C.....67-03 M07-65925
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SICHA F.....67-10 M01-79663
SICHA W E.....67-08 M06-74809
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SICHOVA H.....67-07 M15-72945
SICK H.....67-06 M18-71986
SICKBERT A.....67-08 M04-74352
SICKBERT ADOLF.....67-07 M04-72894
SIDELKOVSKII M P.....67-02 M14-61752
SIDEY M P.....67-08 M14-74736
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SIDLES P H.....67-11 M14-81083
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SIDOROV V I.....67-06 M16-71757
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SIDUNOVA O I.....67-09 M13-76935
SIEBEL GUSTAV.....67-01 M08-57287
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SIEBEL J.....67-07 M02-73880
SIEBENMANN P G.....67-04 M16-66771
SIEBERT F.....67-02 M12-61062
SIEBINGER K.....67-02 M15-59910
SIEBRING B RICHARD.....67-08 M01-75701
SIEFER WILFRIED.....67-12 M17-82939
SIEGEL BRUNO.....67-06 M12-72038
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SIEGEL G.....67-10 M16-78781
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SIEGEL ROLF.....67-07 M18-73230
SIEGEL U.....67-11 M04-80202
SIEGFRIED W.....67-12 M17-83252
SIEKLUCKI L.....67-06 M17-70211
SIEMEK T.....67-02 M03-59592
SIEMES HEINRICH.....67-07 M10-73848
SIEPMANN H.....67-05 M06-69142
SIEPTSOV V M.....67-04 M17-67343
SIERRO J.....67-07 M15-73295
SIETAM S A.....67-12 M12-83384
SIEVERS A J.....67-07 M15-73604
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SIEVERT PAUL R.....67-02 M15-60766
SIEWIERSKI J.....67-06 M13-70341
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SIGAL M A.....67-02 M15-62072

SIGAL M A.....67-04 M15-66480
SIGALOVSKAYA T M.....67-11 M18-81278
SIGLER J A.....67-10 M14-79006
SIGMUND H.....67-04 M14-67058
SIGNORELLI R A.....67-03 M14-65346
SIGNORELLI ROBERT A.....67-05 M17-68398
SIGOV A A.....67-02 M02-62224
SIGRIST K.....67-10 M14-79969
SIGUT Z.....67-12 M15-83304
SIKARSKIE DAVID L.....67-12 M17-82583
SIKIRICA M.....67-10 M13-78670
SIKORA B.....67-02 M04-59499
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SIKORA R E.....67-10 M08-79504
SILAEV A F.....67-08 M09-75423
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SIMON A.....67-02 M15-61994
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SLUSAREK MIROSLAW.....67-10 M02-79862
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SMOLIN R P.....67-02 M15-61681
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SMOLKA MIECZYSLAW.....67-11 M04-81623
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SMOLYAKOV V F.....67-06 M04-70147
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SMOLYANINOV A F.....67-08 M07-76276
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SMOLYANINOV S I.....67-04 M04-66610
SMOLYARENKO D A.....67-04 M04-66208
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SMORGUNOV B A.....67-02 M03-59195
SMORODINA T A.....67-02 M13-60778
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SMORSHCHOK V S.....67-09 M07-76862
SMOTHERS W J.....67-04 M17-67735
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SMRCEK J.....67-12 M18-83461
SMRCEK KAREL.....67-11 M02-81602
SMRECK A.....67-12 M18-83461
SMRHOVA ANNA.....67-06 M04-71369
SMUTEK RAY.....67-11 M08-81193
SMUTS J.....67-08 M12-75586
SMYALOVSKII M.....67-10 M14-78527
SMYTH DONALD M.....67-09 M15-77894
SNAGOVSKAYA N S.....67-08 M02-74886
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SNAPE E.....67-10 M14-79430
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SNEAD C L JR.....67-01 M16-57957
SNEE D J.....67-07 M15-73534
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SNEEGAS E C.....67-08 M08-74740
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SNETKOVA L P.....67-01 M12-58709
SNEZHKO A A.....67-02 M06-59175
SNEZHNOI R L.....67-08 M14-75894
SNIRNOV A V.....67-10 M18-78824
SNISAR V V.....67-12 M11-82633
SNOEK C.....67-11 M16-80935
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SNOVIDOV V M.....67-11 M13-80177
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SNOW E C.....67-09 M16-77167
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SNOW JOSEPH H.....67-09 M07-76405
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SNYDER H J.....67-12 M14-82758
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SNYDER WHITNEY.....67-06 M18-71382
SO S S.....67-12 M17-83245
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SODERQUIST BERTIL.....67-06 M17-70867
SODERQUIST R.....67-07 M14-73637
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SOETE W.....67-02 M17-59171
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SOIFER V M.....67-07 M04-74137
SOJA JOSEPH.....67-05 M11-68674
SOKHIN M S.....67-10 M09-79339
SOKIRYANSKII L F.....67-01 M13-58099
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SOKOLOV V E.....67-01 M04-57175
SOKOLOV V I.....67-02 M04-62261
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SOKOLOV V P.....67-12 M08-82066
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SOKRATOVA L A.....67-01 M03-57271
SOLDATOV V P.....67-02 M13-59669
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SOLENKO T V.....67-10 M14-80063
SOLENOV V M.....67-11 M14-81660
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SOLENTE P.....67-09 M15-76311
SOLLERTINSKAYA YE S.....67-10 M13-79246
SOLLI ODD.....67-06 M17-70825
SOLLY B.....67-04 M17-66991
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SOLNTSEV L A.....67-10 M04-79328
SOLNTSEV S S.....67-06 M03-71309
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SOLNTSEVA YU M.....67-12 M15-82324
SOLNYSHKIN V I.....67-08 M02-75171
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.....67-08 M02-75174
SOLODENKO G G.....67-02 M08-59826
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SOLODOBNIKOV S A.....67-01 M11-58215
SOLODOVNIKOV S A.....67-09 M11-78120
SOLOGUB N A.....67-09 M17-76438
SOLOGUB S L.....67-07 M04-73011
SOLOMATIN S M.....67-05 M04-68544
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SOLONIN S M.....67-02 M09-59605
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SOLYANNIKOV B G.....67-06 M17-71121
SOLYAROV G YU.....67-02 M17-61750
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SOMENO MAYUMI.....67-02 M18-59976
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SOMMACAI B.....67-09 M08-78004
SOMMER ALFRED W.....67-03 M17-65867
SOMMER BORIS.....67-07 M10-73619
SOMMER J.....67-02 M14-60027
SOMMERKORN GERNOT.....67-01 M19-58345
SOMMERS C B.....67-05 M16-69801
SOMORJAI G A.....67-08 M13-75369
SOMOSI ISTVAN.....67-09 M03-76821
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SON PONGUN.....67-07 M14-72524
SONIN S I.....67-01 M12-58069
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SONNENBERG K.....67-02 M15-61515
SONNTAG B.....67-11 M16-80771
SONODA SUSUMU.....67-09 M03-77254
SONOMURA HAJIMU.....67-08 M16-74609
SONTZ ARTHUR.....67-03 M04-65526
SORAYA M.....67-07 M12-74126
SORBO BERNARD.....67-05 M15-69136
SORBY O.....67-06 M11-71576
SOREMARK RUNE.....67-12 M20-82278
SORENSEN R T.....67-09 M02-77534
SORETZ STEFAN.....67-08 M17-74622
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SOROKINA M F.....67-08 M13-74273
SOROKINA N A.....67-12 M17-83533
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SORRENTINO A.....67-08 M16-74599
SOS LUDOVIC.....67-04 M17-67135
SOSEDOV V P.....67-02 M09-60569

SOSEDOV V P.....67-02 M14-62219
SOSIN A.....67-02 M17-60628
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SOSNOVSKII L A.....67-08 M17-75353
SOTIROV BISER.....67-11 M03-81617
SOTNIK I S.....67-02 M11-60002
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SOTNIKOV V S.....67-09 M19-76578
SOUKA N.....67-06 M03-72044
SOULEN J R.....67-05 M16-68220
SOULHIER R.....67-05 M16-68349
SOURESNY H.....67-05 M20-69320
SOUTHIN R T.....67-02 M14-61840
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SOUTHON MICHAEL J.....67-12 M13-82273
SOVALOVA A A.....67-09 M17-77060
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SOVEN P.....67-02 M16-60768
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SOWERBY R.....67-05 M07-69160
SPAEDER C E.....67-03 M04-65322
SPAEDER C E JR.....67-03 M17-65001
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SPAEDER G J.....67-12 M17-83059
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SPAHN H.....67-07 M18-73177
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SPAIN R G.....67-01 M12-58523
SPALARIS C N.....67-03 M17-65018
SPANGLER G E.....67-07 M07-73736
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SPARCHEZ Z.....67-04 M04-68143
SPARK I J.....67-06 M15-70441
SPARKS C J JR.....67-08 M13-75345
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SPASIC MIODRAG.....67-10 M03-79859
SPASOV A.....67-04 M04-66903
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SPASOV KIRIL.....67-02 M03-59543
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SPASSKY M N.....67-06 M16-72350
SPATIG D O.....67-12 M18-81963
SPECHT REINHARD.....67-09 M19-76509
SPECKHARDT H.....67-06 M17-71507
SPECTOR A N.....67-07 M02-73017
SPEDDEN H R.....67-01 M03-57936
SPEERSCHNEIDER C J.....67-01 M17-58422
SPEICH G R.....67-04 M14-67267
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SPENCER DOYLE.....67-03 M10-65628
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SPERNER FRANZ.....67-02 M06-61651
SPERRY P R.....67-10 M18-79962
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SPIES HEINZ JOACHIM.....67-06 M17-71197
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SPILLER LESTER L.....67-05 M12-69500
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SPUHLER E H.....67-08 M20-74831
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SRAWLEY J E.....67-08 M17-74683
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STAUDER RONALD F.....67-11 M15-81388
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STEC ROMAN.....67-11 M04-81639
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STEFANI R.....67-03 M19-65249
STEFANIDES E J.....67-01 M17-57237
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STEMLER J R.....67-08 M20-74824
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STEUDEL ERICH.....67-09 M19-77386
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STRASSMAIR H.....67-09 M15-77835
STRATER FRANZJOSEF.....67-02 M12-60218
STRATHDEE B A.....67-07 M19-73100
STRATIEV VASIL.....67-11 M03-81618
STRAUBE H.....67-04 M17-67202
STRAUBE HARALD.....67-11 M04-81374
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STRAUMANIS M E.....67-04 M13-66537
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STRAUSS A J.....67-09 M16-77170
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STREEB R.....67-06 M12-71809
STREEL D.....67-08 M10-75815
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STREET R S.....67-12 M13-82998
STREETMAN B G.....67-12 M15-83014
STREIFF ROLAND.....67-09 M14-76457
STREJCEK JAN.....67-12 M09-83460
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STREKALOVSKII M M.....67-04 M04-67608
STREKALOVSKII V N.....67-03 M19-65443
STREKHOV V A.....67-10 M14-79474
STRELETS KH L.....67-04 M03-66975
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STRELKOV G S.....67-04 M07-66219
STRELKOV V I.....67-04 M17-67835
STRELNIKOVA N S.....67-05 M15-68710
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STRELTSOV I G.....67-08 M19-74919
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STREYDIO J M.....67-11 M15-81687
STRIBUK E K.....67-08 M16-74869
STRICKER FRIEDRICH.....67-09 M12-77649
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STRICKER K.....67-11 M04-80211
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STRIKMAN M M.....67-02 M11-59514
STRINGER J.....67-07 M18-73405
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STRINGER JOHN.....67-07 M14-73449
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STRIZHAKOV I P.....67-09 M09-78129
STRIZHEVSKAYA A G.....67-08 M11-75419

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STRNAT K.....67-01 M15-58655
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STRNAT KARL J.....67-02 M13-59097
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STROBL P.....67-05 M01-69074
STROBLE C P.....67-07 M15-73532
STROCCHI P M.....67-02 M17-61599
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STROCCHI PAOLO M.....67-05 M04-71751
STROEV V S.....67-02 M11-61148
STROEVA K M.....67-04 M07-66956
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STROGANOV A I.....67-01 M04-58134
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.....67-12 M04-81706
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STROGONOV YU D.....67-06 M03-70000
STROHECKER D E.....67-11 M08-80678
STROHECKER DANIEL E.....67-05 M09-69162
STROHMEIER G.....67-06 M04-70977
STROITELEV I A.....67-02 M03-61608
.....67-03 M03-61609
STROJNY ZBIGNIEW.....67-12 M06-81754
STROM B.....67-04 M17-68029
STROMATT R W.....67-09 M12-78057
STRONG H M.....67-02 M13-59442
STRONG JOHN.....67-02 M12-58909
STRONG K A.....67-05 M13-68279
STRONG R W.....67-03 M19-65010
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STRONGIN B G.....67-06 M14-72344
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STROOK L I.....67-06 M09-71468
STROPPE H.....67-02 M17-60020
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STROUP P T.....67-08 M20-74837
STROYEV V S.....67-01 M11-57529
STRUB A.....67-10 M18-78769
STRUEBING V D.....67-03 M14-65087
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STRUKOV B A.....67-09 M15-76783
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STRUNKIN V A.....67-11 M18-81277
STRUTT P R.....67-06 M13-71539
STUBICAN V S.....67-02 M13-61086
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STUCHLIK FRANTISEK.....67-06 M06-71098
STUDENCKI J.....67-04 M19-67123
STUDNIKOVA S L.....67-11 M18-81282
STUDT PERRY L.....67-02 M17-59459
STUMPKE W F.....67-05 M09-68497
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STUKALOV A I.....67-10 M13-78355
STUKE J.....67-11 M15-80236
STULAR PAVEL.....67-09 M11-77341
STULEN F B.....67-06 M17-70125
STULPINAS B B.....67-11 M12-80456
STUMPF H C.....67-08 M13-74813
STUPAR N I.....67-01 M04-57176
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.....67-09 M04-77266
.....67-10 M04-79820
STUPNIKOV E G.....67-04 M07-66212
STURCKEN E F.....67-06 M14-71424
STUTZMAN GEORGE D.....67-09 M06-77982
STUWE HEIN PETER.....67-02 M14-60604
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STYAZHKIN A K.....67-02 M03-61280
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STYLES G A.....67-07 M16-73492
SU LI SEN.....67-04 M04-66010
SUAREZ INFANZON LUIS ALONSO.....67-12 M18-83150
SUBACH A P.....67-09 M11-77236
SUBBOTA L F.....67-11 M02-81321
SUBBOTIN N I.....67-02 M03-59540
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.....67-02 M04-60095
.....67-02 M04-60096
SUBBOTIN YU V.....67-10 M17-78980
SUBBOTOVSKII V P.....67-04 M11-66437
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SUBRAHMANYAM A V.....67-07 M15-73085
SUBRAHMANYAM D F.....67-03 M12-65043
SUBRAHMANYAM D V.....67-06 M12-70641
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SUBRAMANIAN R.....67-06 M12-71070
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SUBRAMANYA B S.....67-10 M14-79288
SUBRAMANYAM R B.....67-09 M03-78132
SUBRAMANYAN N.....67-01 M18-58733
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SUBRAMANYAN R B.....67-01 M03-57490
SUCEVEANU GH.....67-07 M10-72666
SUCH T E.....67-09 M17-77540
SUCHET J P.....67-08 M15-75919
SUCHILNIKOV S I.....67-02 M03-62265
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SUCHKOV A B.....67-02 M03-61614
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SUCHKOV V P.....67-06 M16-71926
SUCHOPAREK RUDOLF.....67-08 M08-75763
SUCHOPAREK V.....67-08 M08-75836
SUDA K.....67-08 M08-75573
SUDA TOYOHARU.....67-09 M13-78244
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SUDAKOV N I.....67-02 M15-59933
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SUDARIKOV S I.....67-10 M09-79808
SUDASCH E.....67-07 M11-73466
SUDASCH ERICH.....67-06 M07-72031
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SUDO EMIKO.....67-04 M19-67599
SUDOVTSEV A I.....67-01 M16-58169
SUDRABIN D A.....67-01 M18-57970
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SUDYAKOV V S.....67-05 M10-69646
SUEMATSU HIROYOSHI.....67-02 M15-59480
SUEMUNE KENITIRO.....67-02 M13-59113
SUENAGA M.....67-12 M16-82721
SUEOKA OSAMU.....67-04 M16-67483
SUGAI TOKUKO.....67-11 M14-80821
SUGAI YUTAKA.....67-02 M15-59738
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SUGANO TAKUO.....67-05 M14-68567
.....67-05 M16-68568
SUGANO TERUZO.....67-01 M18-57613
SUGATA MASAYASU.....67-09 M04-77985
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SUGAWARA HEDEO.....67-02 M18-59739
SUGAWARA HIDEO.....67-01 M18-58334
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.....67-02 M18-59987
.....67-02 M18-59988
.....67-02 M18-60272

SUGAWARA HIDEO.....67-09 M18-77876
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SUGAZAWA KIYOSHI.....67-10 M18-80009
SUGENO T.....67-08 M07-75802
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SUGENO TAKESI.....67-09 M17-77930
SUGGITT J W.....67-08 M17-75935
SUGIHARA K.....67-09 M18-78023
SUGIMOTO KATSUHISA.....67-04 M16-66763
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SUGIMOTO KOICHI.....67-07 M18-72527
.....67-09 M10-77088
SUGINO KAZUO.....67-09 M17-77259
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SUGIO ISAO.....67-02 M17-59115
SUGIOKA YASOICHI.....67-02 M04-58842
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SUGITA TOSHIO.....67-10 M13-79127
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SUGIURA CHIKARA.....67-10 M14-79576
SUGIURA FUMIO.....67-05 M15-69542
SUGIURA TAKASHI.....67-10 M12-79605
SUGIYAMA KOICHI.....67-07 M17-72526
SUGIYAMA KOZO.....67-05 M16-69754
SUGIYAMA MASATAKA.....67-11 M12-80505
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SUGIYAMA TARO.....67-01 M17-58247
SUGIYAMA YOSHIHIKO.....67-02 M18-59162
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.....67-08 M17-75768
SUH N P.....67-12 M11-82134
SUHL H.....67-10 M17-79308
SUID ROGER.....67-11 M15-80407
SUITER J.....67-09 M18-77704
SUITO EIJI.....67-08 M07-75140
SUKHANOV V D.....67-04 M14-66998
SUKHANOVA K A.....67-12 M15-83535
SUKHANOVA R V.....67-06 M19-70097
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.....67-05 M15-68856
SUKHARCHUK YA S.....67-10 M15-79840
SUKHARCHUK YU S.....67-08 M06-76086
SUKHAVOV YE L.....67-02 M06-62003
SUKHININ G K.....67-11 M04-81019
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SUKHOBRUS YE P.....67-07 M08-73977
SUKHODOLSKAYA E A.....67-01 M07-58171
SUKHOMLIN G D.....67-04 M06-66425
SUKHOMLINOV R M.....67-12 M13-82346
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SUKHORUKOV I F.....67-12 M11-82030
SUKHORUKOV N A.....67-02 M03-62053
SUKHOTIN B N.....67-06 M08-70148
SUKHOVAROV V F.....67-06 M04-70275
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.....67-08 M17-74981
.....67-09 M10-77287
SUKIENNICKI A.....67-09 M14-76442
SUKONNIK I M.....67-11 M14-80608
SUKONNIK M A.....67-12 M07-81873
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SULADZE O N.....67-09 M04-77037
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SULADZE R N.....67-12 M04-83421
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SULEIMENOV E N.....67-06 M16-71769
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SULIMENKO E I.....67-04 M02-66866
SULIMENKO V T.....67-02 M02-61738
SULLIVAN A B J.....67-06 M04-70741
SULLIVAN C P.....67-11 M08-81002
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SULLIVAN D B.....67-08 M17-75976
SULLIVAN GEORGE A.....67-04 M16-67180
SULLIVAN JOHN D.....67-06 M16-69916
SULLIVAN JOHN W.....67-03 M04-65542
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SULLY A H.....67-08 M03-76160
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.....67-10 M07-79285
SULMONT A.....67-12 M17-83337
SULTAN S A.....67-07 M13-73983
SULTANOV S G.....67-09 M06-77961
SUMAKOVA I S.....67-04 M18-67278
SUMAROKOVA N V.....67-01 M09-57277
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SUMI MASAO.....67-10 M15-79124
SUMIMOTO HARUYOSHI.....67-12 M17-82451
SUMIN S N.....67-05 M18-69836
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SUMINO K.....67-02 M17-60648
SUMINO KOJI.....67-08 M13-74408
SUMITA KENJI.....67-08 M16-75606
SUMITA M.....67-06 M04-72211
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.....67-07 M13-72496
SUMITA MASAE.....67-06 M17-71738
SUMITA MINORU.....67-07 M16-73324
SUMKA H J.....67-07 M14-73452
SUMM B D.....67-02 M17-59637
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.....67-04 M14-67637
.....67-07 M17-73167
.....67-12 M17-82437
SUMMERS SMITH D.....67-03 M17-65597
SUMMERS W H.....67-06 M04-72026
SUMMERSON T J.....67-11 M18-81124
SUMNER E V.....67-07 M09-73359
SUMNER G.....67-02 M17-60906
SUMNER L R.....67-02 M13-60231
SUMTSOV V F.....67-02 M17-61199
SUN CHE KIM.....67-04 M03-68049
SUNADA HISAKICHI.....67-01 M17-58387
SUNAMI TATSUYA.....67-11 M17-80941
SUNDARAM C V.....67-01 M03-57490
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SUNDARAM S M.....67-11 M17-81145
SUNDARARAJAN S.....67-06 M03-71060
SUNDAY E G.....67-04 M02-66587
SUNDBERG CARL W.....67-03 M04-65008
SUNDBERG R.....67-04 M12-68032
SUNDSTROM LORNA J.....67-01 M15-58750
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SUNNEN M J.....67-05 M12-69122
SUNTER B J.....67-09 M08-77512
SUORTTI P.....67-08 M16-76134
SUPLIN L Z.....67-06 M04-70935
SUPOV A V.....67-07 M10-73789
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SUPPO U.....67-12 M07-82387
SUPRUN S A.....67-11 M11-80638
SUPRUNENKO P A.....67-06 M15-70502
SUPRUNOV V A.....67-12 M18-82476
SUPRUNYUK E YA.....67-05 M04-68545
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SUPTEL A M.....67-06 M11-72304
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.....67-11 M15-80875
SURGUCHEV G D.....67-08 M04-74348
SURIKOVA M A.....67-02 M10-60071
SURIN E V.....67-05 M04-68548
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SURIN YU V.....67-03 M15-65075
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SURIS JOSEPH P JR.....67-07 M03-74296
SURIS R A.....67-03 M15-65076
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SURJAEV V V.....67-11 M10-80573
SURKOV A I.....67-09 M04-77755
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SURKOV YU P.....67-06 M17-70328
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.....67-10 M17-78968
SURLS JOSEPH P JR.....67-07 M03-74297
SURMAVA G G.....67-06 M14-70336
SUROVA E A.....67-06 M14-71396
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SUROVAYA G N.....67-12 M14-81845
SUROVIC LADISLAV.....67-09 M03-76809
SUROVOVA V N.....67-04 M17-66215
SUROVOY YU N.....67-02 M16-61671
SURYANARAYANA P.....67-12 M03-82900
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SUSHKIN N G.....67-09 M14-77277

SUSHKOV V P.....67-06 M16-71772
SUSKI WILLIAM.....67-06 M12-71490
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SUSKI WILLIAM J.....67-02 M18-61141
SUSLOPAROV G D.....67-04 M10-67384
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.....67-06 M14-70099
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.....67-12 M14-82345
SUSLYAKOVA V G.....67-07 M18-72872
SUSS HENRY.....67-01 M18-57232
SUSS HORST.....67-12 M04-83345
SUSSE C.....67-03 M15-65915
SUSSE CHRISTIANE.....67-06 M14-72013
SUTARNO.....67-09 M13-76446
SUTCLIFFE P W.....67-09 M15-76313
SUTINA YU A.....67-08 M14-75877
SUTO HAJIME.....67-01 M17-58325
.....67-11 M17-80947
.....67-11 M17-80948
SUTRICH J.....67-05 M10-69321
SUTT A A.....67-06 M03-70374
SUTTER W B JR.....67-07 M15-73595
SUTTON J G.....67-08 M10-74847
SUTTON W H.....67-03 M17-65348
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.....67-08 M09-74922
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SUTURIN S N.....67-04 M03-67523
SUTURINA N G.....67-01 M17-57585
SUTYRIN G V.....67-10 M11-78414
SUVORIN V YA.....67-01 M11-57645
SUVOROV V A.....67-02 M07-59883
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SUVOROVA O A.....67-11 M03-80439
SUVOROVA S O.....67-02 M17-60740
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SUYAROV D I.....67-02 M07-62266
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SUZUMOTO AKIRA.....67-02 M07-58851
SUZUYA HIRO.....67-05 M11-68861
SVALOV G.....67-02 M03-62218
SVECHNIKOV D A.....67-02 M17-60843
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SVEHLA S.....67-06 M11-70202
SVEJCAR J.....67-09 M17-76815
SVENDSON THOMAS S.....67-05 M01-68681
SVENSON E C.....67-07 M16-73937
SVERDLIN A V.....67-04 M17-66834
SVERDLOV G M.....67-06 M15-72110
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SVESHNIKOV D A.....67-08 M17-76101
SVESHNIKOVA G A.....67-03 M13-65795
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SVET D YA.....67-11 M19-81210
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SVETLOV YU G.....67-09 M17-78160
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SVETOZAROV A V.....67-02 M04-62283
SVIDERSKAYA Z A.....67-01 M17-57282
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TAKEI HIDEO.....67-09 M17-77252
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TARANENKO I A.....67-12 M14-82410
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TARANOV E D.....67-02 M11-59643
TARANTUL A N.....67-04 M04-67862
TARAPAI M A.....67-02 M03-59195
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TARAPON A G.....67-08 M07-74334
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TARASEVICH YU F.....67-02 M07-59883
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TARASOV V D.....67-09 M15-76773
TARASOV V F.....67-05 M15-69716
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TARNETSKII B A.....67-08 M10-76109
TARNETSKIY B A.....67-02 M10-60851
TARNOCZI T.....67-09 M15-77673
TARNOVSKII I YA.....67-08 M07-74335
TARNOVSKIY I YA.....67-02 M07-60673
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TARNOWVSKII I YA.....67-01 M17-57183
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TARTAKOVSKII I P.....67-02 M09-62123
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TARTARON F X.....67-04 M04-67029
TARUI YASUO.....67-01 M03-58316
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TATENO HIROSHI.....67-10 M15-78724
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TAUSCHER H.....67-09 M17-77306
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TAUSHMAN J.....67-12 M19-83593
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TAWARA YOSHIO.....67-02 M15-59469
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TAYLOR W.....67-06 M16-71170
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TAZAKI YOSHIO.....67-08 M11-75304
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TEBBLE R S.....67-12 M14-82550

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TEMBER G A.....67-11 M03-81433
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TEMNIKOV I M.....67-12 M07-81869
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TENCHEVA R.....67-06 M19-70343
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TENGE P.....67-08 M17-75101
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TENNEY R F.....67-07 M04-74113
TENSMEYER LOWELL G.....67-07 M14-72832
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TEPLUKHIN G N.....67-08 M13-74959
TER DANIELYANTS K R.....67-10 M02-79032
TERAI MASATOSHI.....67-11 M15-80818
TERAI SHIRO.....67-02 M13-59724
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TERAL SHIRO.....67-01 M18-57455
TERAO KIYOSHI.....67-02 M15-59471
TERAO NOBUZO.....67-05 M14-69290
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TERASAWA SABURO.....67-02 M17-60037
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TERAYAMA KAZUKIYO.....67-01 M12-58555
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TEREKHOVA V V.....67-07 M14-74182
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TERENZI STEFANIA.....67-06 M03-71017
TERENZI STEGANIA.....67-06 M03-71018
TERESHCHENKO A F.....67-04 M17-66569
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TERMINASOV YU S.....67-04 M13-67638
TERMINASOVA M D.....67-04 M13-67842
TERNOVENKO A S.....67-12 M15-81864
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TERRY EMORY L.....67-04 M17-67894
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TERVOORT J L J.....67-04 M12-68039
TERVOORT T L J.....67-06 M12-70640
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TESHAEV S T.....67-02 M17-61188
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TESLYUK A K.....67-02 M17-61811
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TESSON F.....67-09 M14-77973
TESTARDI L R.....67-05 M16-69516
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TESTUT GEORGES.....67-04 M11-67138
TETELBAUM D I.....67-05 M16-69391
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TETNEV V S.....67-02 M11-59520
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TEUMIN I I.....67-04 M06-67781
TEUTONICO L J.....67-09 M13-76588
TEVEROVSKII V I.....67-04 M19-66839
TEVONYAN M S.....67-08 M02-75170
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TEZKY BORIVOJ.....67-11 M04-80422
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THANGAVELU S.....67-10 M12-78522
THAPER C L.....67-10 M16-78498
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THEOLIER.....67-02 M10-60259
THEOLIER M.....67-12 M17-83338
THEOPHILIDES G.....67-08 M10-74744
THERNQVIST P.....67-03 M14-65201
THERY JEANNE.....67-04 M14-66311
THEVENIN JEAN PAUL.....67-10 M14-79894
THIBAUDIER C.....67-09 M15-77208
THIBAULT MAY.....67-02 M13-60615
THIBAUT CH TH.....67-07 M04-73080
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THIEL H.....67-08 M16-75253
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THIER HERMANN.....67-02 M19-62197
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THILL ANDRE.....67-07 M04-72895
THIRSK H R.....67-02 M14-59447
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TIGERT J.....67-05 M01-69117
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TIX ARTHUR.....67-07 M04-72894
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TKALICH V S.....67-04 M03-66973
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TKHAM TKHAI ZUI.....67-03 M02-65573
TLEUKULOV O M.....67-10 M03-79135
TNAKA MASABUMI.....67-06 M17-70647
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TOBIAS S A.....67-09 M08-78105
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TODA GYOZO.....67-09 M10-78000
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TODD FRANCIS J.....67-03 M04-65532
TODOROV E.....67-09 M02-76718
TODOROW R P.....67-05 M14-68736
TOFPENETS R L.....67-01 M13-58090
TOGANO HIDEO.....67-11 M18-80486
TOGINO Y.....67-06 M04-72131
TOGURI J M.....67-08 M12-74612
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TOKAR ISTVAN.....67-11 M06-81073
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TOKAREV V P.....67-07 M18-73169
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TOKIWA KENZI.....67-09 M19-77986
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TOLASCH G.....67-02 M17-59531
TOLDIN A A.....67-02 M11-62171
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TOLMASSKY I S.....67-02 M09-61706
TOLPYGO V K.....67-05 M14-69263
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TOSHIMA SHINOBU.....67-01 M12-58617
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TRACE JAMES J.....67-06 M19-71001
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TREDGOLD R H.....67-07 M15-72837
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TRIDOT GABRIEL.....67-05 M14-68911
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TRIFFONOVA E.....67-07 M14-72423
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TROMBE FELIX.....67-02 M15-60612
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TRON A S.....67-05 M12-68235
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TROSHCHENKO V T.....67-08 M17-76006
TROSIENER E.....67-03 M07-65713
TROSKUNOV YA L.....67-08 M06-76273
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TROSTEL L J.....67-07 M14-74012
TROTTER H G.....67-06 M04-72023
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TROUT H E JR.....67-01 M17-58457
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TRUELL ROHN.....67-04 M17-66226
TRUFAKOV V I.....67-04 M17-66565
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.....67-11 M17-80278
TRUMPFHELLER RUDOLF.....67-02 M19-60509
TRUMPY G.....67-04 M15-68063
TRUNOV G Z.....67-12 M02-81858
TRUPPE M.....67-07 M04-73248
TRUSCULESCU M.....67-04 M01-68146
TRUSH I V.....67-04 M08-67037
TRUSHIN A V.....67-04 M17-66017
TRUSOV L P.....67-04 M17-67952
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TRUSZKOVSKY W.....67-02 M17-59718
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TRYLSKI J.....67-11 M15-80629
TSABROV N D.....67-02 M18-61287
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TSAGAREISHVILI G V.....67-04 M15-67831
TSALIKOVA M B.....67-09 M03-77111
TSANKOV IV.....67-04 M03-67825
TSAPKOV N T.....67-02 M02-61603
TSARAPAYEVA YE I.....67-10 M16-79468
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TSAREV B M.....67-06 M14-70512
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TSARYUK A K.....67-02 M11-59512
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TSCHENTKE GERHARD.....67-12 M17-83288
TSCHERNY S.....67-09 M17-77007
TSCHETTER M J.....67-03 M14-65131
TSCHIERSKE E.....67-07 M04-73032
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TSEITLIN V Z.....67-05 M09-68236
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TSELUIKOV V S.....67-02 M07-61947
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TSEPAYEV V A.....67-02 M10-60071
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TSERNA A E.....67-02 M08-59826
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TSIKAREV V G.....67-11 M04-81407
TSIKLAURI SH E.....67-09 M12-76835
TSIMERMANIS F KH.....67-10 M15-80096
TSINMAN A I.....67-09 M18-77093
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TSIPUNOV A G.....67-11 M14-81411
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TSIRLINA G I.....67-05 M18-68600
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TSIVINSKII S V.....67-11 M14-81635
TSIVIRKO D E.....67-05 M08-69696
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TSKHE L A.....67-11 M18-81296
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TSOKOV I S.....67-09 M03-76875
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.....67-05 M15-69764
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TSUPAK T E.....67-11 M12-81285
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TSURGANOV V P.....67-01 M11-58279
TSURKOV B A.....67-01 M06-57243
TSURKOV V N.....67-12 M10-81876
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TSUTSUMI NOBUHISA.....67-09 M17-77811
TSUYA K.....67-09 M17-78259

TSUYA KAZUO.....67-02 M17-60152
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.....67-06 M17-70787
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TSYGAN V G.....67-06 M11-70400
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TSYGANENKO V G.....67-02 M14-59918
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TSYKULENKO A K.....67-02 M11-62168
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TSYLEV L M.....67-06 M04-69965
TSYMBAL I L.....67-05 M11-69413
TSYMBAL V P.....67-01 M04-57195
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TSYPER V A.....67-08 M07-75095
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TSYTOVICH.....67-11 M04-81314
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TSZIN-SYU CHZHAN.....67-02 M15-59579
TSZIN-YUAN LI.....67-02 M04-59578
TSZYAN SYUAN CHZHEN.....67-06 M13-70375
TU K N.....67-06 M14-70425
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TUCCILLO J J.....67-12 M20-82358
TUCEK J.....67-04 M18-67855
TUCHIYA MASATOSHI.....67-05 M17-69854
TUCHIYA MASATOSI.....67-09 M14-78203
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TUCK C W.....67-02 M18-62011
.....67-02 M18-62012
.....67-04 M18-66989
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TUCKER C W JR.....67-11 M13-81592
TUCKER CHARLES W JR.....67-02 M14-61075
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.....67-05 M13-69039
TUCKER J T.....67-04 M17-66233
TUCKER PHILIP A.....67-09 M14-76324
TUCKER T N.....67-03 M15-65660
TUCKER T W.....67-06 M15-72001
TUCNIK D.....67-06 M12-70922
TUDO JOSEPH.....67-05 M14-68911
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TUDOI V S.....67-12 M07-81873
TUEV G V.....67-06 M19-71342
TUFANOV D G.....67-10 M18-78946
TUFFNELL G W.....67-04 M17-66928
TUGUSHEV A S.....67-12 M08-83024
TUININGA E J.....67-08 M18-75574
TUKHFATULLIN A A.....67-02 M14-61922
TUKHFATULLINA R M.....67-02 M13-60299
TUKHFATYLLIN A A.....67-06 M13-72365
TULEJA FRANCISZKA.....67-01 M04-57149
TULENKOV K I.....67-04 M07-66220
TULENKOV L N.....67-09 M03-76889
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TUMANOVA T A.....67-02 M18-59784
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.....67-12 M02-83415
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TUMASHOV V F.....67-10 M15-80096
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TUMINSKII L I.....67-04 M17-66623
TUMMEL R G.....67-04 M04-66112
TUMMERS G E.....67-05 M17-69332
TUNGUSHBAEV K.....67-12 M02-83090
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TURELLI M.....67-12 M15-82231
TURFA A JR.....67-03 M04-65540
TURK TH.....67-08 M10-75760
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TURKDOGEN E T.....67-04 M04-68047
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.....67-11 M04-81309
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TURKOVSKAYA A V.....67-01 M18-58201
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.....67-05 M18-69493
TURLIER PIERRE.....67-12 M14-82232
TURNBULL D.....67-02 M14-60765
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.....67-12 M15-82372
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TURNBULL G KEITH.....67-02 M17-59457
TURNBULL J A.....67-02 M14-60813
.....67-07 M13-73148
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TURNER C E.....67-11 M17-81140
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TURNER P F.....67-04 M18-66721
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TURNER T S.....67-04 M08-67400
TURNOCK P H.....67-03 M14-65081
TUROV V D.....67-08 M15-75272

TUROVSKII M L.....67-08 M17-76001
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TURPIN MICHEL.....67-10 M13-79895
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TURUSHKIN L P.....67-08 M06-74592
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.....67-10 M17-78940
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TUSTISON GARY V.....67-04 M08-66355
TUTAKOV O V.....67-06 M09-71464
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.....67-12 M09-83551
TUTHILL A H.....67-01 M18-57970
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TUTIHASI SIMPEI.....67-11 M15-81387
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TUTYNIN V K.....67-04 M17-66083
TUZAKI T.....67-09 M16-77453
TUZOV L V.....67-02 M14-61920
TVAROHA BOHOMIR.....67-12 M04-82664
TWAITES J E.....67-11 M04-81187
TWIDWELL L G.....67-02 M14-59424
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TYSON W R.....67-06 M17-71285
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UENO TSUNEHIRO.....67-02 M11-60042
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UESUGI SACHIO.....67-09 M17-77577
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UGLANOV G P.....67-04 M08-67041
.....67-10 M07-79724
UGLIKOVA N S.....67-08 M05-76237
UGLOV A A.....67-10 M11-78401
.....67-12 M06-82115
.....67-12 M11-81911
UGRIN N S.....67-06 M13-70329
.....67-07 M13-73482
UHLIG E.....67-01 M19-58439
UHLIG H H.....67-09 M14-76645
.....67-09 M18-77886
UHLIG HERBERT H.....67-12 M18-82891
UHLIG W.....67-09 M17-77884
.....67-12 M06-83574
UHRICH D L.....67-06 M16-71988
UJI KUNIHIKO.....67-09 M12-76681
UJIIE AKIRA.....67-01 M17-58697
.....67-10 M11-79492
.....67-10 M12-79493
UJIIYE NOBUHISA.....67-09 M17-76759
UKEI KAZUTOSHI.....67-08 M16-74429
UKRAINSKII YU M.....67-12 M19-82304
ULANOVSKII I B.....67-02 M18-60787
.....67-02 M18-60797
ULANOVSKIY I B.....67-04 M18-67291
ULBRICH C W.....67-05 M16-69514
.....67-05 M16-69515

ULIG G G.....67-01 M18-58702
ULKO V M.....67-10 M17-78939
ULLMAIER H A.....67-02 M16-61834
ULLMAN F G.....67-05 M15-68283
ULLMANN E.....67-06 M07-70029
ULLMER G.....67-06 M06-71092
ULLRICH W.....67-03 M20-65701
ULLRICH WALTER.....67-02 M07-59532
.....67-10 M10-79790
ULMAN I E.....67-04 M17-67822
.....67-06 M09-71881
ULMER G C.....67-09 M15-77964
ULMER GEORGES.....67-01 M06-58621
.....67-09 M06-77669
ULMER R P.....67-07 M15-73508
ULRICH ERNST ALBERT.....67-05 M18-69333
ULRICH KLAUS HERBERT.....67-08 M04-76287
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ULRYCH M.....67-02 M11-61049
ULYANIN E A.....67-02 M17-61982
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.....67-07 M14-74191
.....67-08 M17-74967
.....67-10 M13-78925
.....67-10 M17-78834
.....67-10 M17-78839
.....67-12 M17-83531
ULYANOV A G.....67-05 M02-68316
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ULYANOV E A.....67-02 M17-61977
ULYANOV R A.....67-01 M17-58129
.....67-01 M17-58187
.....67-02 M14-61981
.....67-02 M17-59832
.....67-02 M17-61980
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.....67-10 M14-78838
.....67-10 M17-78837
.....67-11 M17-81163
.....67-12 M17-83312
.....67-12 M17-83534
ULYANOVA N V.....67-05 M17-68366
ULYUSHENKO B M.....67-01 M11-58216
UMANSKII M A.....67-08 M04-75188
UMANSKII YA S.....67-01 M14-58145
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.....67-09 M08-77132
.....67-09 M14-77295
MANSKIY YA S.....67-02 M09-61167
.....67-02 M13-61684
.....67-04 M13-67655
UMAROVA KH F.....67-06 M16-71759
UMEDA J.....67-04 M16-66790
UMENO MASATAKA.....67-06 M14-71421
UMLAND F.....67-02 M18-62025
UMLAND FRITZ.....67-10 M18-79393
UMNOV V D.....67-09 M04-77624
.....67-11 M04-80912
UMOVA V M.....67-02 M14-59935
.....67-07 M14-72590
UMRATH W.....67-07 M19-74025
UMRIKHIN P V.....67-01 M04-57175
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.....67-11 M04-81012
.....67-11 M04-81013
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.....67-11 M04-81402
.....67-12 M04-81708
UNCKEL H.....67-08 M14-75321
UNDERWOOD E E.....67-07 M17-73740
UNDERWOOD ERVIN E.....67-05 M13-68999
UNICK T F.....67-10 M06-78703
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UNNI V K V.....67-07 M18-73300
UNO TSUKUMO.....67-04 M17-66561
UNZ M.....67-08 M18-74938
UPTHEGROVE W R.....67-01 M14-58464
.....67-01 M14-58465

URAKAMI A.....67-12 M10-83052
URALSKII V I.....67-05 M07-69664
URANE D.....67-08 M04-76191
URAYAMA AKIRA.....67-01 M11-58699
URAZOVA V A.....67-03 M13-65776
URBAN G.....67-07 M04-73240
URBANEK JOH.....67-07 M08-72884
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URE ROLAND W JR.....67-06 M13-70248
URICAR J.....67-07 M04-73039
URITSKII M R.....67-01 M11-58281
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URLI N B.....67-11 M16-81691
URSHANSKII A I.....67-07 M08-74289
URSU I.....67-08 M15-74779
URVACHEV A A.....67-01 M11-58279
URVACHVA A A.....67-04 M11-67360
URYUTINA L A.....67-04 M10-67961
US V I.....67-02 M18-61257
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.....67-07 M18-73660
USACHEV P A.....67-04 M02-66652
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.....67-11 M02-81436
USAMI SEIJI.....67-07 M15-73988
USAMI TADASHI.....67-06 M14-70849
USATOV V U.....67-02 M15-61667
USBECK P.....67-02 M08-60223
USHAKOV E N.....67-11 M04-81648
USHAKOV E V.....67-12 M07-83331
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USHAKOV YU A.....67-11 M03-81508
USHCHAPOVSKII L V.....67-09 M15-77788
USHIJIMA K.....67-07 M17-72555
USHIO KAZUHIRO.....67-02 M16-60518
USHKOV S S.....67-05 M17-68246
USKOV V A.....67-05 M16-69391
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USKUMBAEV N U.....67-08 M04-75144
USOLTSEV B N.....67-02 M07-62151
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USPENSKIY M D.....67-09 M14-76770
USSLEBER K.....67-07 M04-73242
USTIMENKO M YU.....67-02 M17-59954
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USTIMENKO V A.....67-01 M12-58071
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USTINOV A M.....67-04 M03-67525
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USTINOV V S.....67-02 M03-61614
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USTYANTSEV V M.....67-02 M14-62292
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USTYUGOV A A.....67-10 M19-78425
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USTYUZHANINA N N.....67-10 M05-79352
USUI DAIHACHIRO.....67-05 M10-69483
USUI TAKESHI.....67-07 M17-72983
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USZYNSKI R D.....67-06 M19-72012
UTAKOJI M.....67-07 M07-72439
UTEVSKII L M.....67-03 M13-65603
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UTEVSKIY L M.....67-12 M13-81834
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UTIN I A.....67-02 M11-59527
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UTOCHKIN V V.....67-12 M14-82403
UVAROV A I.....67-02 M14-62268
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UY J C.....67-01 M14-58532
UYEDA OSAMU.....67-06 M19-70835
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VAALER L E.....67-09 M14-77135
VABILYUS V V.....67-12 M10-81985
VACCA C.....67-02 M14-59130
VACCARI JOHN A.....67-04 M01-67537
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VACH V.....67-06 M14-70325
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VACHA FRANZ.....67-08 M11-75674
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VACU SILVIA.....67-10 M15-79861
VACVAL JOHN A.....67-12 M08-82945
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VAGNER F A.....67-12 M11-83190
VAGRAMJAN A T.....67-07 M12-73178
VAGRAMYAN A T.....67-03 M12-65104
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VAHLDIEK F W.....67-02 M13-59068
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VAIDUGANOV YU A.....67-12 M11-83194
VAILAND KH.....67-11 M17-81162
VAINBLAT YU M.....67-02 M17-61557
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VAINBOIM D I.....67-12 M08-83179
VAINERMAN A E.....67-01 M11-58275
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VAINSHTEIN A A.....67-08 M17-74582
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VAIRAMOV B I.....67-05 M04-68325
VAISERMAN YU A.....67-02 M19-62116
VAISHTEIN O YA.....67-10 M04-79816
VAISNYS J RIMAS.....67-09 M16-77443
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VAKS I A.....67-07 M11-72739
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VAKSMAN S S.....67-06 M11-71647
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VAKULENKO O V.....67-10 M15-79447
VAL C.....67-05 M17-68667
VALBY L E.....67-01 M16-58755
VALCHEV ALEKSANDR.....67-12 M17-83449
VALCHUK G I.....67-01 M17-57669
VALDRE U.....67-07 M13-73624
VALECKY J.....67-06 M06-70801
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VALECKY JINDRICH.....67-06 M06-71098
VALERO A M.....67-12 M18-83511
VALETOVA G I.....67-09 M07-76410
VALETTE C.....67-03 M16-65750
VALIEV S A.....67-05 M07-69440
VALIEVA R A.....67-09 M18-77955
VALIGNAT JEAN.....67-10 M12-79893
VALIN GILBERT.....67-02 M06-60503
VALISOVSKII I V.....67-04 M06-67946
VALITSKII V P.....67-07 M15-73997
VALKOVSKII V A.....67-02 M17-61636
VALLEE M.....67-02 M07-62038
VALLET ETIENNE.....67-12 M14-81817
VALLIER G.....67-06 M14-70598

VALLIER JEAN-CLAUDE.....67-02 M16-60172
VALOTA N.....67-04 M17-67714
VALOV P M.....67-06 M16-72373
VALTER O I.....67-02 M04-60061
VALUEV S A.....67-02 M17-61903
VALUGIN K N.....67-09 M12-76834
VALVODA V.....67-09 M16-76736
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VALYOCSIK ERNEST W.....67-05 M14-68625
VAN AMSTEL J J A PLOOS.....67-07 M12-73221
VAN ASBROECK P H.....67-10 M09-78473
VAN ASBROECK PH.....67-01 M05-58542
VAN BAARLE C.....67-01 M15-58634
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.....67-11 M15-80907
VAN BECKHOVEN J.....67-04 M06-68041
VAN BUREN CHARLES E.....67-07 M09-73861
VAN DAEL W.....67-10 M14-78499
VAN DAELE R.....67-06 M07-72018
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VAN DALEN P A.....67-09 M16-77970
VAN DE STOLPE C.....67-03 M14-65396
VAN DE VOORDE M.....67-03 M15-65188
.....67-04 M15-67729
VAN DEN ANDEL J.....67-05 M19-68806
VAN DEN BERGHE P.....67-09 M12-77211
VAN DEN BEUKEL A.....67-05 M14-69776
.....67-09 M17-77747
VAN DER DOES DE BYE J A W.....67-11 M15-81677
VAN DER HOEVEN J C JR.....67-03 M15-65034
VAN DER LUGT W.....67-05 M16-69785
VAN DER MEER M P.....67-03 M15-65693
VAN DER MOLEN S B.....67-05 M16-69785
VAN DER SLUYS W A.....67-06 M17-71630
VAN DER TOORN L J.....67-09 M11-78151
VAN DER VELDE A J.....67-04 M19-68019
VAN DER WEG W F.....67-11 M16-80935
VAN DER WEKKEN C J.....67-11 M15-81591
VAN DER WILLIGEN P C.....67-04 M11-68013
VAN DER WOUDE F.....67-02 M15-61524
VAN DIEPEN A M.....67-09 M16-77019
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VAN DINGENEN W.....67-09 M16-77748
VAN DORP F C.....67-12 M19-81945
VAN DORSTEN A C.....67-04 M13-66155
VAN DOUWEN A A.....67-04 M17-68023
VAN DRESE M L.....67-09 M05-77962
VAN DRESER M L.....67-04 M17-67737
VAN DROFFELAAR HENRY.....67-06 M18-71314
VAN DYCK A P.....67-04 M11-68022
VAN ECHO J A.....67-12 M17-83240
VAN EEGHEM J.....67-01 M17-57300
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VAN EIJNSBERGEN J F H.....67-09 M12-77661
VAN ELST H C.....67-02 M17-59712
VAN ENGELEN P P J.....67-11 M15-80772
VAN GRAEYNEST A.....67-09 M14-75323
VAN GURP G J.....67-02 M15-61536
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.....67-05 M16-69775
VAN HAMERSVELD JOHN A.....67-05 M01-68681
VAN HORN KENT R.....67-08 M01-74801
VAN HOVE H.....67-03 M16-65749
VAN ITTERBEEK A.....67-10 M14-78499
.....67-10 M16-78497
VAN KANN H.....67-10 M07-79956
VAN KEMPEN H.....67-01 M14-58661
VAN KEMPEN HANS.....67-07 M15-72749
VAN LAAR J A W.....67-06 M18-71180
VAN LANCKER MARC.....67-11 M01-81077
VAN LANDUYT J.....67-01 M13-57568
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.....67-03 M13-65379
VAN LANGEN M J.....67-05 M17-69770
VAN LEEUWEN R T.....67-03 M17-65309
VAN LENT P H.....67-04 M11-67420
VAN LINT J.....67-01 M17-58599
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.....67-04 M17-68020
VAN MILL W.....67-03 M04-65531
VAN NIEKERK J N.....67-08 M12-75586
VAN OETEREN K A.....67-05 M12-69035
.....67-10 M12-79799
.....67-10 M18-78683
.....67-10 M18-79089
VAN OOIJEN D J.....67-05 M16-69452
VAN OOSTROM A.....67-11 M14-80522
VAN ORSDEL J.....67-08 M01-75390

VAN ORSDEL J.....67-10 M01-79801
VAN OSTENBURG D O.....67-08 M16-74662
VAN POUCKE L.....67-10 M16-78497
VAN REUTH E C.....67-01 M14-58783
VAN SOMEREN ERNEST H S.....67-02 M14-60878
VAN SOMEREN L.....67-02 M08-61779
VAN STAPELE R P.....67-06 M16-71172
VAN THYNE R J.....67-11 M17-80294
VAN THYNE RAY J.....67-07 M18-73752
VAN TORNE L I.....67-03 M13-65222
VAN TORR C H.....67-09 M04-76388
VAN VILET D.....67-12 M16-82544
VAN VLACK L H.....67-12 M16-82545
VAN VLACK LAWRENCE H.....67-07 M14-72830
VAN WEEREN J H P.....67-01 M04-58477
VAN WELY F E.....67-05 M11-69446
VAN ZUTPHEN J P H.....67-06 M16-71000
VAN ZYL J J E.....67-06 M07-71514
VANA JINDRICH.....67-08 M18-75745
VANATT ROBERT A.....67-04 M03-67758
VANCHUGOV G A.....67-01 M12-58166
VANCU A.....67-08 M09-75387
VANDENBERG STUART R.....67-10 M04-79317
VANDERMEER R A.....67-04 M16-66747
VANDERSEE W.....67-10 M11-78625
VANDERVOORT R R.....67-02 M14-60605
VANDERVOORT RICHARD R.....67-06 M14-71955
VANDEVEN DANIEL.....67-01 M11-58299
VANDEVYVER M.....67-02 M13-61832
VANDYSHEV B A.....67-04 M17-66939
VANDYSHEV V P.....67-08 M17-76097
VANECHO J A.....67-09 M17-76754
VANECHO JOHN A.....67-02 M14-62286
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VANGENGEIM S D.....67-11 M16-81485
VANICHEVA G V.....67-09 M14-77775
VANIN R S.....67-10 M17-78382
VANSELOW R.....67-11 M17-80682
VANSKIKE L L.....67-04 M17-66289
VANT HOEN A.....67-12 M15-82527
VANTINI N.....67-12 M16-82333
VANTINI NEREO.....67-04 M14-66705
VANYUKOV A V.....67-05 M04-69068
VARAKSINA A V.....67-11 M13-80602
VARANTSEVA Z V.....67-10 M14-79165
VARDAG S GHAZI KHAN.....67-11 M11-81027
VARGA G JR.....67-09 M19-78003
VARGA J JR.....67-09 M19-78194
VARGA T.....67-02 M03-61608
VARGANOV A S.....67-02 M14-60087
VARHEGYI GYOZO.....67-04 M03-66964
VARHELYI CS.....67-05 M03-69538
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VARHELYI REZSO.....67-08 M03-75090
VARICH N I.....67-08 M03-76238
VARLAKOV V P.....67-09 M14-76936
VARLAMOV V P.....67-08 M09-75891
VARLI K V.....67-06 M17-70276
VAROTTO C.....67-08 M04-71746
VARSHAVSKII A.....67-09 M04-76701
VARSHAVSKII A P.....67-03 M04-65068
VARSHNI Y P.....67-07 M04-73332
VARTAK M N.....67-05 M17-68717
VARTAZAROV M A.....67-06 M17-70711
VAS A.....67-08 M17-74940
VASANOVA L K.....67-03 M18-75143
VASANTASREE V.....67-07 M14-74188
VASHCHENKO A A.....67-08 M18-75143
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VASHKYALIS A I.....67-12 M15-82307
VASHUKOV I A.....67-09 M13-77288
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.....67-12 M14-82334
VASICHEV B N.....67-08 M01-74870
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VASIN YU P.....67-01 M04-58039
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.....67-08 M06-74540
VASINA Z M.....67-01 M04-58039
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VASKIN V V.....67-11 M14-81044
VASKO I P.....67-02 M04-61953
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VASKOVSKIY V S.....67-08 M17-75431
VASLEYKO V F.....67-07 M03-73418
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VASS C.....67-07 M18-73698
VASSAMILLET L F.....67-06 M13-71958
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VASSEL C R.....67-02 M14-61534
VASSELL M O.....67-04 M16-66781
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VASSERMAN I M.....67-02 M03-61279
VASSILY GEORGE R.....67-09 M07-77148
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VASVARI B.....67-06 M16-69907
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VASYUTINSKII B M.....67-06 M12-72379
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VASZKO B.....67-09 M13-76620
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.....67-11 M15-80432
VATOLIN N V.....67-11 M13-81632
VATONIN N A.....67-11 M04-81011
VATRUSHIN L S.....67-11 M08-80757
VATSADZE D V.....67-06 M03-69999
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.....67-11 M15-81451
VAUGHAN D.....67-06 M14-72231
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VAUGHAN D A.....67-06 M18-70126
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VAUGHN ROBERT L.....67-04 M08-66301
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.....67-12 M08-82889
VAUGOYEAU HENRI.....67-02 M13-61023
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VAULINSKIY E S.....67-10 M07-79046
VAUTIER C.....67-03 M15-65187
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VAUTIER M.....67-12 M15-82898
VAVIKOV N S.....67-01 M02-57136
VAVILOV N S.....67-06 M04-69965
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VAVILOVSKAYA N G.....67-07 M12-74190
VAVRA V E.....67-07 M19-74152
VAYNBLAT YU M.....67-08 M13-75216
VAYNERMAN E A.....67-10 M12-78402
VAYNSHTEYN 9 N.....67-12 M08-81997
VAYNSHTEYN E YE.....67-07 M14-72594
VAYNSHTEYN V M.....67-06 M16-71923
VAYSSIERE P.....67-01 M04-58106
VAZHENIN S F.....67-02 M03-59855
VDOVIKO E A.....67-11 M12-80448
VDOVIN V R.....67-05 M04-68546
VDOVIN V R.....67-07 M04-72457
VDOVKIN G G.....67-09 M03-76889
VEALE C R.....67-08 M18-75903
VECHER R A.....67-11 M15-80159
VED E I.....67-06 M05-70563
VEDARAMAN R.....67-03 M12-65658
VEDENEEV I D.....67-11 M11-80556
VEDERNIKOV G F.....67-05 M03-68960
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VEDYAEV A V.....67-11 M15-80739
.....67-11 M15-80744
VEEN R J.....67-07 M15-73303
VEENSTRA P C.....67-08 M08-75571
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VEGMAN E F.....67-06 M02-70267
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VEGMAN YE F.....67-10 M02-79826
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VEIGEL N D.....67-09 M16-77312
VEIL G.....67-02 M12-59971
VEINIK A I.....67-01 M14-57131
VEITH W.....67-06 M17-69958
VEKSHIN B S.....67-08 M07-75479
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VEKSHINA N V.....67-01 M13-58076
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VELA P.....67-09 M17-77464
VELECKIS EWALD.....67-09 M13-77722
VELEKER THOMAS J.....67-02 M14-59007
VELEV V.....67-09 M03-76879
VELGE W A J J.....67-11 M14-80306
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VELIKIN B A.....67-05 M04-68547
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VELIKOIVANENKO E A.....67-01 M11-58271
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VELISEK J.....67-04 M14-67756
VELMOZHNY E YA.....67-01 M14-57314
.....67-02 M14-62241
VELTMAN H.....67-04 M02-66676
.....67-06 M03-72075
VEN IN CHZHAN.....67-06 M13-70375
VENABLE DOUGLAS.....67-11 M17-81091
VENARD J T.....67-07 M17-73388
VENCZEL J.....67-11 M18-80713
VENKATADRI A S.....67-04 M04-67416
VENKOVA M D.....67-01 M02-58037
VENNETT R M.....67-08 M17-75979
VENNIK J.....67-10 M13-79011
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VENUGOPALAN K.....67-08 M03-74384
VENZHEGA A S.....67-01 M10-57633
VENZOVSKII M V.....67-09 M11-77605
VERBITSKII A I.....67-10 M07-79811
VERBITSKII V G.....67-10 M11-79610
VERBITSKII YA D.....67-02 M04-61206
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.....67-04 M04-67873
VERBITSKIY V G.....67-06 M11-71643
VERBRAAK C A.....67-05 M17-69743
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VERBURG H.....67-10 M16-79367
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VERDERBER R R.....67-05 M12-68630
VERDICCHIO P.....67-07 M08-73202
VERDINI LIVIO.....67-02 M14-59734
VERDUZCO M.....67-04 M07-67419
VEREBRENNIKOV V N.....67-05 M03-68234
VERESHCHAGIN F P.....67-10 M03-79132
VERESHCHAGIN L F.....67-06 M14-72034
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VERESHICHAGIN L F.....67-06 M14-70049
VERETENIK L D.....67-12 M11-82030
VERETNIK L D.....67-01 M11-58211
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.....67-11 M11-80649
VEREZNYAKOV A I.....67-04 M15-67390

VERGAND F.....
VERGASOVA L L.....67-04 M14-67109
.....67-07 M14-74188
VERGAZOV N G.....67-10 M14-79237
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VERGE J.....67-08 M04-75717
VERGONI JACQUES.....67-08 M04-76165
VERGUNAS F I.....67-05 M17-69135
VERHOEVEN J D.....67-02 M15-61658
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.....67-06 M15-69927
.....67-12 M14-82968
VERHUFEN ERNST.....67-12 M14-82982
VERHUIST G P J.....67-08 M18-75511
VERHULST G P J.....67-03 M12-65568
VERINK ELLIS D JR.....67-01 M12-57551
VERKHOGLYADOVA T S.....67-05 M18-68792
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VERKHOROBIN L F.....67-06 M13-70776
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VERKHOVETS V T.....67-02 M13-60742
VERKHOVSKII B I.....67-02 M03-59855
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VERKHOVTSEV E V.....67-07 M19-72847
VERKHOZIN A N.....67-01 M04-57256
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VERKIN B I.....67-10 M15-79541
VERMA AJIT RAM.....67-05 M16-69023
VERMA B S.....67-01 M14-58301
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VERMA J K D.....67-10 M15-78775
VERMA M P.....67-11 M15-81476
VERMENICHEV S A.....67-06 M16-70990
VERMILYEA D A.....67-02 M03-59548
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VERNER K A.....67-12 M17-82454
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VERNER V D.....67-08 M20-75020
VERNICKEL H.....67-10 M17-80085
VERNIK V S.....67-08 M14-75047
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VERRIEST R.....67-12 M11-82031
VERSCHUEREN M.....67-01 M19-58118
VERSHININ E A.....67-05 M15-69768
VERSHININ P I.....67-01 M02-57267
VERSHININ V I.....67-08 M06-74347
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.....67-11 M13-80928
VERSHININA V V.....67-06 M17-72357
VERSHINSKII A V.....67-10 M17-79617
VERSHINSKIY A V.....67-06 M11-71648
VERSHTEIN M L.....67-10 M10-79211
VERSNYDER FRANCIS L.....67-02 M06-59458
VERTES PAUL.....67-02 M03-60944
VERTMAN A A.....67-01 M15-57466
.....67-06 M15-70754
.....67-08 M15-75866
.....67-12 M15-82402
VERTYUKOVA L G.....67-12 M17-83532
VESELKOV N G.....67-04 M04-66206
VESELY K.....67-08 M12-75681
VESELY VLADIMIR.....67-12 M12-82608
VESELYNASKIY YU S.....67-05 M13-69019
VESEY I M.....67-05 M14-69567
VEST CHARLES E.....67-07 M17-72758
VESTERSJO EGIL.....67-05 M14-69088
VETISKA A.....67-04 M17-67848
VETRENKO E A.....67-02 M03-59189
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VETRENKO YE A.....67-02 M03-60090
VETTERS A.....67-10 M11-79305
VETYUKOV M M.....67-02 M03-61718
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.....67-11 M03-81509
VEYSSEYRE HENRI.....67-10 M14-79986
VEYTSMAN M G.....67-02 M17-60979
VEZINA J A.....67-03 M14-65567
VIALATTE M.....67-01 M18-57161
VICARIO A A JR.....67-09 M17-78102
VICKERS W.....67-09 M17-77472
VICTORIA M.....67-06 M17-72240
VIDEAU J P.....67-02 M17-59757
VIDERGAUZ V S.....67-04 M14-67236
VIDERGAUZ V SH.....67-04 M13-67097
VIDOZ A E.....67-03 M14-65386
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VIDTS J.....67-02 M10-60870
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VIEBAHN EGON.....67-08 M07-75071
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VIELAND L J.....67-01 M15-58644
VIELHABER E.....67-08 M16-75002
VIER V I.....67-02 M04-61863
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VIETH D L.....67-06 M19-71433
VIETZ J T.....67-02 M10-61842
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VIGDOROVICH V I.....67-05 M18-69832
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VIGDOROVICH V N.....67-02 M03-60732
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VIGIER P.....67-02 M13-61518
.....67-02 M14-61528
VIGNAU JEAN MANUEL.....67-10 M15-78857
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VIGNES A.....67-11 M14-80147
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VIGUE F.....67-02 M04-62062
VIJAYAKAR S V.....67-10 M02-78610
VIJAYAVALLI R.....67-07 M03-73299
VIKHAREV A F.....67-01 M03-57275
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VIKHOROVA N A.....67-01 M17-58056
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VIKHROV V I.....67-10 M17-79903
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VILESOV F I.....67-08 M16-75236
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VILK YU N.....67-12 M15-82687
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VILLAINE PHILIPPE.....67-12 M14-83157
VILNAT J.....67-11 M19-80250
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VILYAMS O S.....67-04 M13-67982
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VILYANSKII YA E.....67-03 M03-65580
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VINCENT A.....67-07 M04-73010
VINCENT D.....67-04 M04-66735
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VINCENT J D.....67-01 M02-58695
VINCENT L M.....67-11 M18-80146
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VINCENT PHIL.....67-09 M20-77378
VINEK G.....67-05 M13-68486
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VINER J G.....67-08 M17-74795
VINES RAYMOND F.....67-10 M12-79938
VINEYARD G H.....67-04 M16-67305
VINGSBO O.....67-06 M13-72223
VINICHENKO E V.....67-04 M04-67869
VINIKOVSKII.....67-05 M03-69531
VINITSKII A G.....67-12 M06-81880
VINKLER O N.....67-05 M17-68555
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VINOGRAD M I.....67-07 M13-74146

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.....67-09 M09-76922
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VINOGRADOV YU V.....67-12 M08-81794
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VINOGRADSKII D I.....67-02 M11-60016
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VINOKUR B B.....67-01 M17-58074
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VINOKUROV N D.....67-04 M03-67936
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VINSON N.....67-11 M12-81241
VINTAIKIN E Z.....67-01 M17-57690
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VIOLAN P.....67-11 M17-80244
VIOLET C E.....67-11 M15-80188
VIOLLE MICHEL.....67-11 M14-81561
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VIRLICH E E.....67-05 M11-69043
VIROLLE XAVIER.....67-02 M15-59091
VIRULYA A L.....67-01 M17-58073
VISCONTI IGNAZIO CRIVELLI.....67-04 M17-68000
VISHKAREV A F.....67-04 M04-67869
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VISHKAREV O M.....67-12 M03-82147
VISHNEVETSKII M L.....67-10 M02-79827
VISHNEVSKII I I.....67-07 M15-73474
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VISLHNYAKOV YA D.....67-05 M14-68253
VISSER A.....67-02 M08-60997
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VISTE N D.....67-10 M17-79174
VISVANATHAN S.....67-04 M04-66599
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VISWANATHAN R.....67-11 M16-81108
VITALI G.....67-10 M16-79168
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VITALI R.....67-01 M13-58543
VITEK V.....67-03 M13-65219
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VITEK V.....67-12 M13-82003
VITKENE E I.....67-11 M12-80458
VITKIN A I.....67-04 M12-67289
VITLIN A B.....67-04 M11-67810
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VITMAN D V.....67-01 M11-57529
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VITOVEC F H.....67-08 M14-76050
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VITOVSKII N A.....67-12 M16-82019
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VITRIKHOVSKII N I.....67-04 M16-66748
VITRYANYUK V K.....67-02 M09-60178
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VITS YU I.....67-07 M10-73955
VITT R.....67-11 M16-81595
VITT R S.....67-10 M15-78736
VITYAZ P A.....67-08 M09-74906
VITYUGIN V M.....67-06 M02-70118
VIVCHAR O I.....67-06 M13-70776
VIVSI S N.....67-02 M11-60195
VIVSIK S N.....67-01 M11-57531
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VIZELBERG M B.....67-07 M12-72874
VIZHEKHOVSKAYA S V.....67-01 M18-58048
VLACH B.....67-06 M17-70592
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VLADIMIROV L P.....67-05 M18-68388
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VLADIMIROV S P.....67-07 M03-72783
VLADIMIROV V B.....67-01 M18-58278
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VLADIMIROVA G V.....67-08 M15-75279
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VLADIMIRSKII T A.....67-05 M10-69242
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VLASEVA V T.....67-04 M03-66851
VLASEVNINA L K.....67-04 M06-66418
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VLASYUK R Z.....67-02 M09-59603
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VLCHEV IV.....67-04 M02-67129
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VLCHEV IVAN.....67-04 M02-67130
VLKOV P.....67-05 M17-69271
VOBORIL J.....67-02 M14-58894
VOCKE GUNTHER.....67-07 M04-72722
VODAR B.....67-03 M15-65915
VODENIKTOV I G.....67-06 M05-70562
VODOPIVEC F.....67-02 M08-60656
VODOPYANOVA N A.....67-07 M14-73487
VODSEDALEK J.....67-09 M17-76716
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VOELTZEL J.....67-08 M18-76221

VOELTZEL J.....67-10 M14-80023
.....67-11 M12-80500
VOETLZEL JACQUES.....67-05 M18-69131
VOGEL D L.....67-04 M15-66055
VOGEL F.....67-05 M03-69588
VOGEL J G.....67-09 M07-76612
VOGELS HANNS ARNT.....67-01 M04-57916
VOGET.....67-01 M07-58110
VOGMAN M SH.....67-02 M09-62132
VOGT JOHANN.....67-04 M07-66326
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VOKALKOVA ALENA.....67-09 M14-76805
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VOLIANIK M NICOLAS.....67-06 M04-70670
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VON ARDENNE M.....67-02 M01-60047
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VON HOFE HANS.....67-08 M08-75787
VON JAN R.....67-02 M14-61520
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VON MUNCH W.....67-04 M16-67101
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VON WIARDA E.....67-09 M20-76608
VONBANK H.....67-07 M04-73119
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VOORHES WILLIAM G.....67-12 M08-82944
VORHIS FRED H.....67-05 M20-68683
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VRBENSKA J.....67-04 M13-67851
VREELAND T JR.....67-02 M13-61082
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VREELAND THAD JR.....67-12 M13-82368
VRESTAL J.....67-04 M14-67756
VRIJHOEF M M A.....67-05 M14-69776
VROEGE A K.....67-09 M04-76388
VRSEK JAROSLAV.....67-12 M04-82498
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VRTEL J.....67-01 M17-58176
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VRTEL JAROSLAV.....67-10 M10-79856

VRUBLEVSKAYA Z V.....67-02 M13-61935
VRZHESHCH E YA.....67-08 M09-75858
VRZHETSH E YA.....67-02 M09-61713
VSHIVKOVA N F.....67-02 M13-61945
VTOREK M.....67-09 M19-78065
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VUCUROVIC DUSAN.....67-10 M03-79859
VUDEAU J P.....67-05 M17-68787
VUILLARD GUY.....67-01 M11-58379
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VUKSANOVIC PETAR.....67-11 M19-81607
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VYALKOV V I.....67-07 M03-73409
VYASELEVA GALINA YAKOVLEVNA.....67-04 M12-66279
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WACH J.....67-02 M10-60984
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WADSWORTH MILTON E.....67-12 M14-82734

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WAKURI AKIRA.....67-09 M08-77578
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WURM J.....67-10 M15-79019
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XING XIU SAN.....67-10 M17-80029

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YUI LUN LYU.....67-04 M13-68050
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YUKALOV I N.....67-06 M15-70320
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YUKAWA MASAO.....67-02 M11-59961
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YUKIMOTO YOSHINOIR.....67-10 M13-79127
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YUKOVA A I.....67-09 M03-77116
YUMANOVA L V.....67-08 M03-75145
YUMATOVA V I.....67-04 M11-66804
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YUNAKOV V M.....67-11 M04-80855
YUNASH V M.....67-08 M10-74980
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ZAMKOWAND.....67-04 M11-67169
ZAMOLODCHIKOVA V N.....67-04 M11-66838
ZAMORA M F.....67-12 M14-81847
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ZAMYSHLAEV V G.....67-06 M03-71350
ZANAROLI L.....67-02 M19-59168
ZANCHETTA JEAN VICTOR.....67-12 M16-83195
ZANDBERG E YA.....67-05 M16-68399
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ZANEMONETS V F.....67-08 M09-75430
ZANKO V I.....67-08 M09-75463
ZAPF GERHARD.....67-01 M17-58230
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ZARKADES ANTHONE.....67-11 M17-80683
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ZELENOVA V D.....67-05 M17-68742
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ZELENTSOVA L V.....67-10 M13-79143
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ZELENYI N I.....67-07 M11-72857
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ZELIKMAN A N.....67-01 M02-57310
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ZELINSKII V F.....67-10 M04-79823
ZELLE ANNA.....67-12 M03-82488
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ZELMANOVICH V YA.....67-01 M11-58214
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.....67-04 M04-68181
ZEMCIK T.....67-05 M16-69096
ZEMEL J N.....67-07 M16-73944
ZEMLYANOV M G.....67-08 M16-75235
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ZEMON S.....67-10 M16-79407
ZEMPO TOMONORI.....67-08 M15-75056
ZEMSKII S V.....67-04 M19-67090
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ZEMSKOV G V.....67-01 M18-58711
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ZEN KAZUAKI.....67-08 M18-74679
ZENER CLARENCE.....67-11 M14-81103
ZENKOV G P.....67-04 M09-66880
ZENKOVA E K.....67-06 M17-72368
ZENKOVSKII A G.....67-08 M10-74349
ZENTNER H.....67-06 M11-72060
ZEPPELZAUER K.....67-06 M06-71192
ZERBST M.....67-04 M16-67061
ZERNOV V B.....67-09 M03-76982
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ZERWEKH R P.....67-12 M17-82560
ZESCHKY H W.....67-07 M12-73897
ZESCHKY W.....67-08 M12-75679
ZESSLER G.....67-04 M01-66602
ZETTLEMOYER A C.....67-10 M15-79571
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ZEUNER H.....67-07 M17-73251
ZEUNER HANS.....67-05 M14-68597
ZEVRUK B A.....67-04 M13-66625
ZEZULOVA M.....67-06 M18-71109
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ZEZYANOV S P.....67-03 M03-65581
.....67-08 M02-75149
ZHADAN T A.....67-10 M01-78923
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.....67-10 M18-78922
ZHADAN V T.....67-04 M07-66086
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ZHADKO I P.....67-02 M15-61522
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ZHALYBINA V D.....67-09 M04-76543
ZHANG YU HENG.....67-08 M16-75081
ZHARAVLEV F M.....67-08 M02-76263
ZHARKOV A F.....67-05 M10-69242
ZHAROV YU D.....67-06 M17-72355
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ZHEGINA I P.....67-12 M17-81892
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ZHERDEB A M.....67-04 M17-67373
ZHERDEV A M.....67-06 M13-70921
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ZHILYAEV D A.....67-08 M05-74889
ZHIRKIN YU N.....67-02 M09-61631
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ZHIVAGA L I.....67-04 M11-66818
ZHIVILOVA G V.....67-06 M17-72122
ZHIZHAKINA O D.....67-02 M14-61749
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ZHMUDSKII O Z.....67-04 M13-67159
ZHMURINA YU A.....67-08 M17-74539
ZHOGOLEV D A.....67-09 M16-76781
ZHOLUDEV M D.....67-05 M12-68372
ZHOMOV F I.....67-10 M14-79626
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ZHUBANOV M ZH.....67-06 M15-70875
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ZHUKOVA T B.....67-09 M14-76771
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ZHURKOV Z N.....67-10 M17-79228
ZIBAREV YU N.....67-02 M11-60134
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ZIBULLA FRANZ.....67-04 M06-67255
ZIBUTS YU A.....67-05 M16-69380
ZIDEK A.....67-09 M10-76711
ZIDEK ARTUR.....67-01 M10-58167
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ZIDEK M.....67-06 M17-70918
ZIDEK MILAN.....67-04 M18-66021
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ZIEBOLD THOMAS O.....67-12 M14-82713
ZIEGER MANFRED.....67-09 M19-77588
ZIEGLER ROLF.....67-04 M17-66183
ZIEGLER RUTH.....67-08 M17-74505
ZIEMER A.....67-12 M17-82839
ZIENKO ZDENEK.....67-12 M04-81781
ZIGNANI F.....67-06 M14-70889
ZIJDERVELD J A.....67-08 M14-76217
ZIJLSTRA H.....67-02 M15-61030
ZIKEEV V N.....67-04 M17-66363
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ZILBER M K.....67-10 M15-80069
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ZILBERG YU V.....67-08 M17-75474
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ZILBERMAN A A.....67-09 M04-76830
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ZILING K K.....67-04 M17-67927
ZILOVA T K.....67-04 M17-67146
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ZIMAN JOHN M.....67-03 M16-65934
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ZIMIN N V.....67-02 M10-59685
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.....67-08 M10-76113
ZIMINA L N.....67-05 M17-69241
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.....67-08 M13-76011
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.....67-11 M07-80921
ZIMMER KARL OTTO.....67-02 M04-62097
ZIMMERER G.....67-11 M15-80236
ZIMMERLI U.....67-10 M14-78443
ZIMMERMAN E.....67-01 M14-57126
ZIMMERMAN WILLIAM 3.....67-01 M16-58420
ZIMMERMANN E.....67-08 M06-75509
ZIMMERMANN KARL AUGUST.....67-09 M04-76502
ZIMMERMANN KLAUS.....67-07 M04-72897
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ZIMMERMANN REINER.....67-02 M04-60206
ZINCHENKO K A.....67-09 M13-76941
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ZINN WERNER.....67-06 M14-71725
ZIOLOWSKI Z.....67-01 M09-58175
ZIOMEK J S.....67-11 M15-80614
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ZIRNGIEBL E.....67-11 M18-80804
ZITKOVA J.....67-08 M16-75244
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ZITTER H.....67-05 M18-68608
ZITTER HERBERT.....67-07 M14-72684
ZIVANOVIC B.....67-07 M05-73207
ZLATIN N A.....67-07 M15-73997
ZLATIN NORMAN.....67-01 M08-57440
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ZLATNIK IVAN.....67-07 M17-74108
ZLATNIKOVA J.....67-04 M17-67370
ZLENKO V F.....67-08 M17-76016
ZLEPKO V F.....67-05 M18-69273
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ZMIHORSKY EDWARD.....67-06 M17-71594
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ZOJA R.....67-06 M12-71727
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ZOJA RAFFAELLO.....67-09 M13-78156
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ZULEEG RAINER.....67-03 M14-65897
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ZUMWALT L R.....67-10 M12-78729
ZUNKEL A D.....67-12 M13-82565
ZUNKLER B.....67-09 M08-77941
ZUPKUS C J.....67-05 M17-68943
ZUPNIK A E.....67-02 M15-61204
ZUPP RICHARD R.....67-01 M14-57417
ZURBRICK J R.....67-07 M09-73368
ZUREY F T.....67-04 M01-66683
.....67-06 M17-70016
.....67-09 M01-76642
.....67-12 M17-83115
ZURN H.....67-04 M11-67077
.....67-12 M11-83147
ZURN HERBERT.....67-06 M11-72037
ZURRER TH.....67-04 M16-66633
.....67-11 M15-80799
ZUSMAN L L.....67-10 M17-79144
ZUSMAN L M.....67-08 M04-76274
.....67-10 M04-79267
ZUSMAN SH I.....67-01 M15-57363
ZUSMAN YU E.....67-05 M03-69536
ZUYEV A B.....67-01 M06-57320
ZUYEVA T F.....67-05 M03-68839
ZVENIGORODSKII B M.....67-07 M04-74065
ZVENIGORODSKII S M.....67-05 M04-69679
ZVEREV A D.....67-08 M08-75486
ZVEREV L V.....67-11 M03-81231
.....67-11 M14-81228
.....67-02 M12-60995
ZVEREV S T.....67-04 M12-66458
.....67-11 M12-80999
.....67-02 M14-62087
ZVEREVA T S.....67-11 M14-80727
ZVEREVICH N V.....67-02 M03-60565
ZVEZDIN YU I.....67-11 M14-80595
ZVIADADZE G N.....67-11 M03-81439
.....67-11 M03-81440
.....67-11 M03-81441
.....67-11 M03-81442
.....67-11 M15-81450
.....67-11 M15-81451
ZVIDADADZE G N.....67-04 M03-67093
ZVORONO B P.....67-04 M08-67039
ZVORYKINA R A.....67-10 M15-78358
ZVYAGINA A P.....67-11 M16-81042
ZVYAGINA V YA.....67-02 M15-62230
ZWELL L.....67-01 M13-57421
.....67-01 M14-58466
.....67-04 M17-66945
ZWICKER J D.....67-05 M19-69572
ZWICKER U.....67-05 M13-68513
ZWILSKY K M.....67-05 M09-68945
ZWILSKY KLAUS M.....67-02 M09-60946
ZWINGMANN G.....67-10 M15-79079
ZYATKOVA L R.....67-11 M14-81511
ZYAZEV A D.....67-02 M02-60562
ZYGANENKO V G.....67-07 M14-72573
ZYGMUNT A.....67-11 M15-81515
.....67-12 M15-82006
ZYKOVA B M.....67-05 M04-69308
ZYLBBERSZTEJN A.....67-09 M15-77175
ZYRIN A V.....67-06 M09-71467
.....67-12 M09-82788
ZYRYANOV G G.....67-10 M03-79133
ZYRYANOV M N.....67-02 M03-59595
ZYRYZNOV V G.....67-02 M16-62077
ZYSK EDWARD.....67-02 M15-58920
ZYSK J.....67-01 M17-57143
ZYTNER L A.....67-07 M12-73657
ZYUBINA T A.....67-01 M15-58040
ZYUKIN V V.....67-06 M11-70388
.....67-09 M11-78088
ZYUKOV V I.....67-06 M16-70494
ZYUZ A P.....67-12 M09-82205

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